KING-O-MATIC
INDUSTRIES
LIMITED

Torque converter catalogue

Catálogo de turbinas

Catalogue de convertisseur de couple

KING-O-MATIC
INDUSTRIES
LIMITED

2012

TORQUE
CONVERTER CATALOGUE

the most comprehensive guide to torque converters in the automotive industry

MANY NEW FEATURES INCLUDING

- Year, Make, Model, Engine Size Section
- **Driveline Needs Assessment (DNA)** Database including **Technical Services Bulletins (TSB)** notations for specific transmissions and torque converters.
- More than 100 new part numbers with applications through 2012, import and domestic, traditional and hybrid transmissions.
- Updated photos, charts, codes, technical data and application information.

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AVIS

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Toutes le pièces énumérées dans le catalogue sont réservées á des fins de remplacement.

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TRANSMISSION / TORQUE CONVERTER INSTALLATION

Any quality transmission repair is dependent upon several factors such as proper initial diagnosis, top quality replacement parts, and sound rebuilding practices and procedures.

Another important function of the process is installation or “R&R.” The best remanufactured transmission/torque converter can be greatly affected or even destroyed by improper installation procedures.

As with rebuilding the transmission, there are installation basics which should be adhered to in order to avoid wasting time or having potential problems. Following are examples of installation basics:

1. **Correct Identification**
   The technician must verify that the torque converter is the correct application, despite potential misboxing, order error, or lack of specific identifiers. Examples include:

   a. Spline Counts – AX4S 23/25 spline turbine shaft

   b. Hub Length – Honda hubs with pump gear splines

   c. Timing Marks – Chrysler with ignition timing mark

   d. Stall Speed – Various models which have impeller dimples

   e. Lockup Piston Lining – GM On/Off vs. PWM vs. EC3 strategy

   f. Pilot Type – Toyota/Ford diameter, length, or style

   g. Balance – Chrysler with counterbalance weights

   h. Damper Design – Ford single/twin disc, and damper spring capacity

   i. Bolt/Nut Threads – Various applications using standard/metric, fine/coarse

   <u>There are several variables beyond what is listed, so be diligent.</u>

2. Sealing Component
   There is a variety of sealing components used on transmission input shafts/stator supports for lockup applications. Whether the item is an o-ring or Teflon sealing ring, the size must be correct. Honda, for instance, uses an o-ring on the impeller hub and size can vary from model to model. The o-ring cross section is as important as the diameter.

   Material is another concern due to the heat that a torque converter can generate. The wrong material will take a heat set and lose all sealing capability, which will cause lockup problems.

3. Crankshaft Pilot
   Before inserting the torque converter into the transmission, verify that the “fit” between the torque converter pilot and crankshaft pilot bore is correct by placing the torque converter in position and checking for proper clearance. Certain vehicles, such as Ford’s A4LD family, have removable crank pilots which tend to wear and should be replaced.

4. Alignment

All applications use some means to properly align the engine and transmission. Normally this is accomplished by the use of dowel pins. At times, when a transmission is removed, one or both dowel pins stick to the transmission and do not remain with the engine. The replacement transmission will not contain the dowels and once re-installed, misalignment will occur.

Bell housing bolts themselves align nothing.

Another issue is that, at times, the dowel pin holes in the transmission housing can be worn which will also result in misalignment. Always ensure that both dowel pins are there, that the corresponding holes are not worn, and that there are no other obstructions to proper engine/transmission alignment.

Lastly, applications like the 5R55W/N which use a dual plate design (1 flex plate, 1 flywheel) do require an alignment tool for proper installation. Not using this tool can cause various problems as well.

5. Clearances

Once the transmission is bolted to the engine, the torque converter mounting pad to flex plate clearance must be checked. Proper clearance is important for a couple of reasons. Too little clearance will put undue load on pump gears or the crankshaft thrust bearing, based upon design. Too much clearance will not allow enough engagement of the hub drivers into the pump gear or drive splines, resulting in gear breakage or stripped splines.

Incorrect clearance can be the result of improper torque converter stack height, incorrect flex plate/flywheel, improper pump gear position, etc. Clearances less than 1/8” or more than 3/16” should be scrutinized.

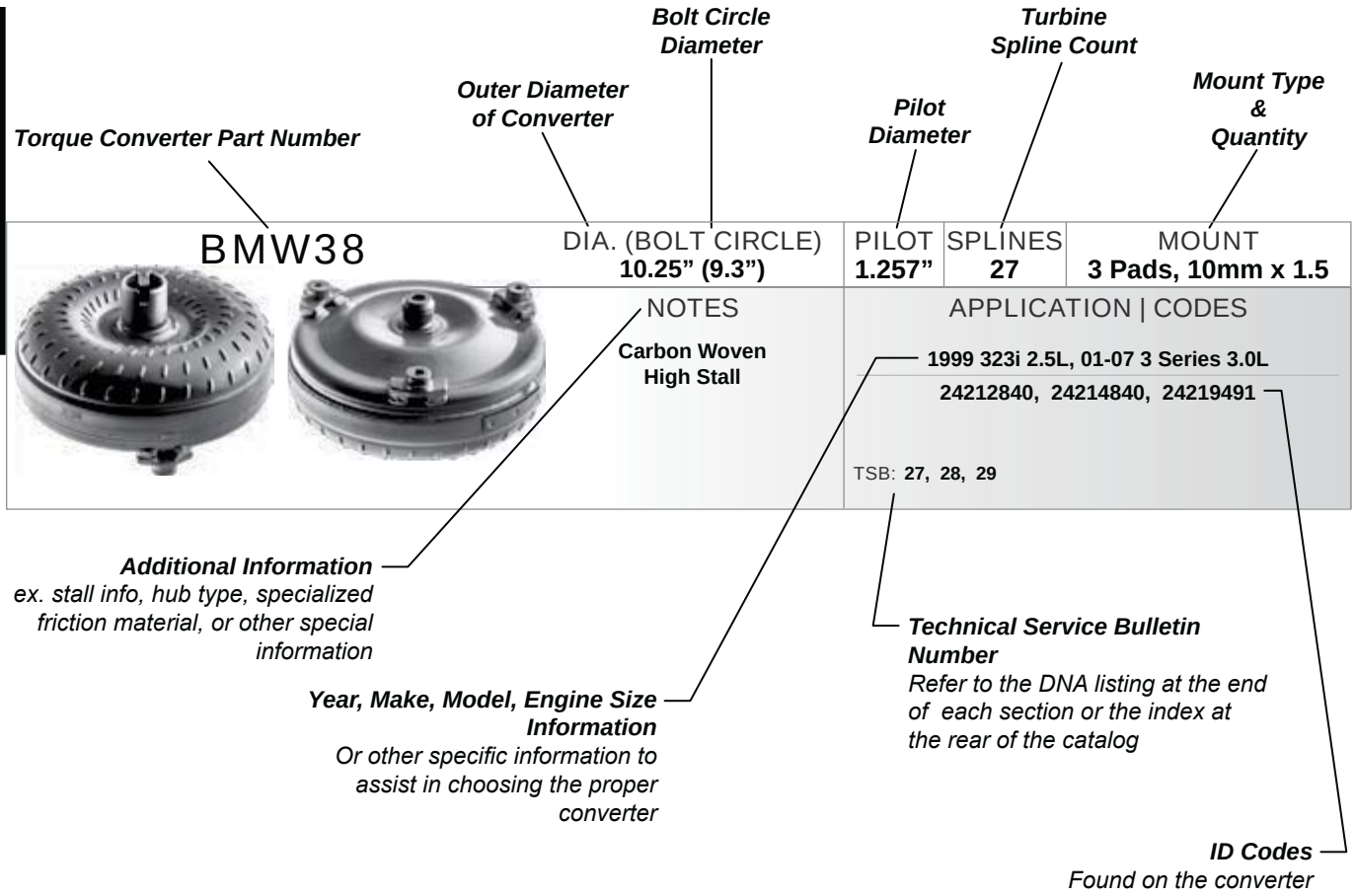
Torque converter clearances can be checked even on applications having a full round bell housing.

6. Attachment

A torque converter is attached to the flex plate/flywheel by either bolts or nuts. Beyond the initial question of whether they are standard or metric thread is the question of pitch, which could be fine or coarse.

An important factor is length. Using a bolt which is too long can damage the torque converter cover, especially on lockup types. The bolt can dimple the machined surface of the cover where the lockup piston lining makes contact, resulting in lockup issues. Therefore, be aware of the mounting pad thickness.

HOW TO USE THIS CATALOG

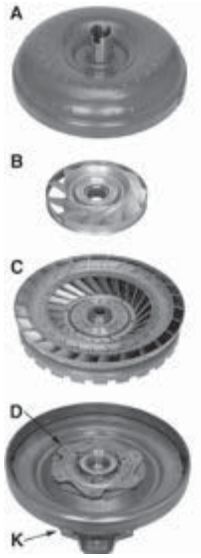
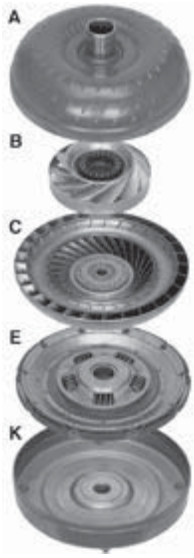
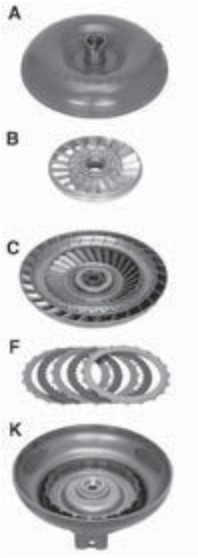
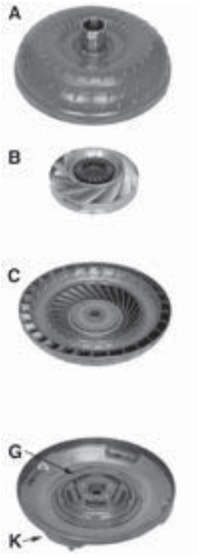


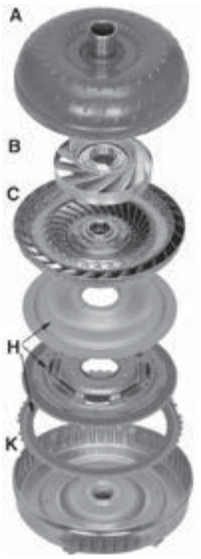
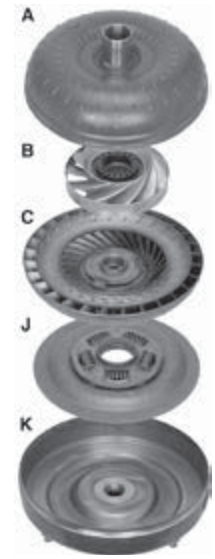
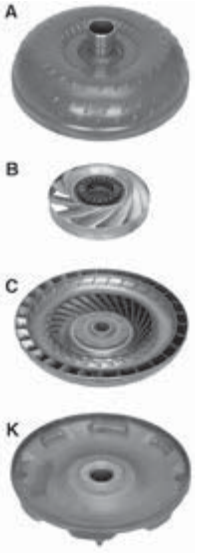
Solutions.
They are in our DNA.

Transtar's DNA – **Driveline Needs Assessment** – is a completely new philosophy of torque converter analysis. Drawn from both OE and Aftermarket information, Transtar's DNA information takes the symptoms that you may be seeing in the transmission (such as overheating, shudder, poor lock up, slippage and NVA), and produces all known solutions to improve torque converter performance. Transtar's DNA information covers both domestic and import transmissions through 2012.

What does this mean to you? It means that in this catalog you have access to this information at your fingertips, steering you away from symptoms and toward a true solution for many transmission malfunctions.

Lock Up and Non Lock Up Converters

			
Lock Up Captive Clutch	Lock Up Centrifugal Clutch	Lock Up Clutch Pack	Lock Up Damper Drive

			Legend: A: Impeller (Primary) B: Stator C: Turbine D: Captive Clutch E: Centrifugal Clutch F: Clutch Pack G: Damper Drive H: Multi Friction Clutch J: Piston (Single Friction) K: Front Cover
Lock Up Multi Friction Clutch	Lock Up Piston (Single Friction Clutch)	Non Lock Up	

General Motors

4T80E Non Viscous
GM84 (Note the angle of the line)

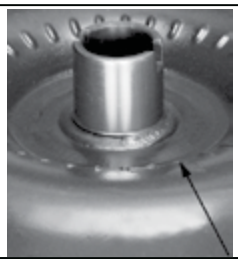
4T80E Viscous
GM86 (Note the angle of the line)

Allison 1000 OE Cover
A7 (Replaced by A7X)

Allison 1000 Billet Cover
A7X (Replaces A7)

Cooling Shroud

Hub - Flanged



Hub - Non Flanged

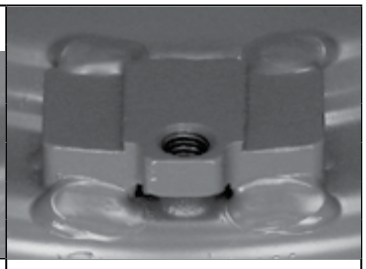
GM identifies many of their units as 245 mm, 258 mm, 298 mm, 300 mm, etc. This is NOT the outer diameter of the converter! This is the internal measurement of the impeller which cannot be measured without cutting the unit open.

MM Info - 298 etc
Outer Diameter of the Impeller

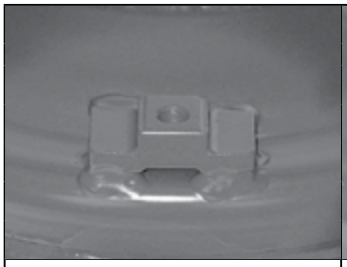
Turbine

Pad - GM 245 mm Rwd

Pad - GM 245 mm Fwd
(Exc 245 mm Fwd Viscous Clutch)



Pad - GM 258 mm Fwd
(Also 245 mm Fwd Viscous Clutch)



Pad - GM 280 & 300 mm Rwd

Pad - GM 298 mm RWD Rectangular

Pad - GM 298 mm RWD Round

Shaft - 245 mm Rwd & 06-Up 4L70E 298mm RWD

Shaft - 280 & 300 mm Rwd

Shaft - 298 mm (27 Spline)

Shaft - 298 mm (30 Spline)

Sticker - Fwd (FLTV)

GM14

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.75")	**.824"**	**27**	**3 Pads**

NOTES
Non Lock Up
Med. Stall
Replaces 6 Pad GM22

APPLICATION | CODES
1980-82 Gas & Diesel

GM63

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Lock Up
1400-1475 Stall

APPLICATION | CODES
1982-01 3.3L, 3.8L, 4.3L
FH, FY, FH5, FY4B, FY5, FY5B, FY6B, FY7, FY7B, FY9B, FYAB

GM71

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Lock Up
1500-1750 Stall
Replaces Viscous GM77

APPLICATION | CODES
1982-01 2.3L, 2.4L, 3.1L, 3.3L, 3.4L, 3.8L
FG, FL, FM, FG9B, FGAB, FL4B, FL8C, FL9B, FLDB, FM4, FM5, FM7, FM8C, FM9, FM4B, FM9B

GM42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Lock Up
1800-2200 Stall

APPLICATION | CODES
1982-01 1.8L, 2.0L, 2.2L, 2.3L, 2.5L, 2.8L, 3.0L, 3.1L, 3.4L, 3.8L
FD, FE, FJ, FD2B, FD4B, FD6B, FDAB, FDEB, FE4B, FJ2B, FJ4B, FJ9B, FJAB, FJBB

GM73

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Lock Up
2300-2900 Stall
FZCB = GM73C

APPLICATION | CODES
1982-01 1.8L, 2.0L, 2.2L, 2.3L, 2.4L, 2.5L, 2.8L
FA, FB, FC, FK, FZ, FA4B, FAAB, FACB, FB2B, FB4B, FBAB, FK1B, FKBB, FZ1B, FZ2B (FZBB/FZRB = GM67)

GM13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (9.75")	1.062"	22	3 Pads

NOTES
Non Lock Up
Welded Nut on Pad

APPLICATION | CODES
1977-80 Chevette, T1000 1.4L, 1.6L

GM17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.75")	.825"	27	3 Pads

NOTES
Clutch Omitted
Uses Bolts Only

APPLICATION | CODES
1980-82 Chevette, T1000 1.6L
SAO

GM25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.75")	.825"	27	3 Pads

NOTES
Lock Up
.565" Tall Pads

APPLICATION | CODES
1981-85 Chevette 1.6L, 1.8L
SA1, SJAJ, SJCJ, 24200140

GM83

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (8")	.825"	27	3 Pads

NOTES
Lock Up
High Stall
.715" Tall Pads

APPLICATION | CODES
1989-98 Sidekick, Tracker 1.6L
SP1U, SP1V, 8682088, 96012140, 96012117, 96012187, 9212140, 24210141

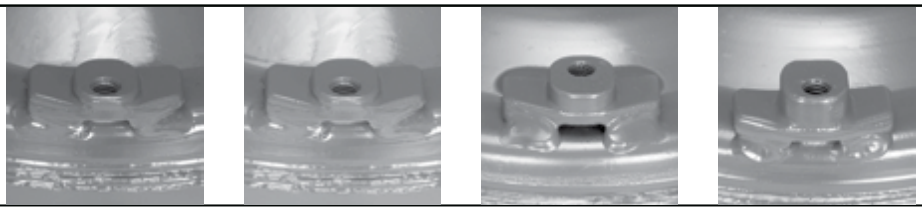
GM85

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.75")	.825"	27	3 Pads

NOTES
Lock Up
High Stall
.925 Tall Pads

APPLICATION | CODES
1994-02 Passport, 91-03 Rodeo, 90-02 Trooper, 96-99 Acura SLX
SFHE, SFHT, SFLT, 8681486, 24200145

To ID the 180 Pads



GM17 GM25 GM83 GM85

GM10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.8")	**1.085"**	**27**	**3 Pads**

NOTES
Non Lock Up
2500-2700 Stall
Uses Nuts & Bolts

APPLICATION | CODES
1976-82 TH200 Chevette 4 Cyl.

GM12

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.085"**	**27**	**3 Pads**

NOTES
Non Lock Up
1800-2200 Stall
Uses Nuts & Bolts

APPLICATION | CODES
1976-82 TH200 LUV & Chevy 4 Cyl.
(Exc. Chevette 4 Cyl.)

GM9

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11")	**1.703"**	**27**	**3 Pads**

NOTES
Non Lock Up
Uses Nuts & Bolts
Can Use GM11
w/ Correct Bolts

APPLICATION | CODES
1976-78 TH200 Chevy 6 & 8 Cyl.

GM11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11")	**1.703"**	**27**	**3 Pads**

NOTES
Non Lock Up
Uses Bolts Only
Can Use GM9
w/ Correct Bolts

APPLICATION | CODES
1976-78 TH200 Buick, Pontiac, Olds

GM3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	**1.703"**	**30**	**3 Pads**

NOTES
Non Lock Up
1300-1500 Stall
3 Rows of Ribs

APPLICATION | CODES
1979-81 TH325

GM3H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	**1.703"**	**30**	**3 Pads**

NOTES
Non Lock Up
1750-2000 Stall
2 Rows of Ribs

APPLICATION | CODES
1979-81 TH325

GM
200C, 200-4R, 325-4L

GM58HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads

NOTES
Lock Up
1800-2100 Stall
Built w/ Flanged Hub

APPLICATION | CODES
1979-87 2.8L Exc. Camaro, 2.6L, 3.1L, 3.4L, 3.8L
HD2, HE9D, HJ2, HJAD, HL9D

GM61HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads

NOTES
Lock Up
2300-2800 Stall
Built w/ Flanged Hub

APPLICATION | CODES
1979-87 2.8L Camaro, 1.8L, 1.9L, 2.0L, 2.5L
HB1, HB2, HA1, HK1, HZ2, HZAD

GM15AL

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Lock Up
1400-1600 Stall

APPLICATION | CODES
1981-90 Most Trucks & Vans, Some Diesels
CG, CG3C, CK

GM15ALF

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Lock Up
1400-1600 Stall
Brazed GM15AL
Replaces 6 Pad GM23

APPLICATION | CODES
1981-90 5.7L Diesel, 6.2L Diesel
CG, CG3C, CK

GM15

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Lock Up
1600-1800 Stall

APPLICATION | CODES
1981-90 Most Cars Exc. HP
CE, CE4C, CF, CF4C (Not CF9C)

GM15AF

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Lock Up
1600-1800 Stall
Brazed GM15

APPLICATION | CODES
1981-90 Most Cars Exc. HP
CE, CE4C, CF, CF4C (Not CF9C)

GM15AH

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (10.7”)	**1.703”**	**27**	**3 Pads**

NOTES
Lock Up
1800-2000 Stall

APPLICATION | CODES
1981-90 Turbo, Camaro, Corvette, HP
CB, CB4C, CB5C, CF9C

GM15S

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (10.7”)	**1.703”**	**27**	**3 Pads**

NOTES
Lock Up
1600-1800 Stall
Static Open

APPLICATION | CODES
1981-90 Cadillac 4.1L, 4.5L, DFI
CE3C

GM19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (10.7”)	**1.703”**	**27**	**3 Pads**

NOTES
Lock Up
w/ Poppet Valve
1400-1600 Stall

APPLICATION | CODES
1981-90 5.7L Diesel, 6.2L Diesel
1R6, 1R7

GM150

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (10.7”)	**1.703”**	**27**	**3 Pads**

NOTES
Clutch Omitted
1600-1800 Stall

APPLICATION | CODES
Dummy Lock Up
CE, CE3C, CE4C, CF, CF4C, CF9C

GM15-HP

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (10.7”)	**1.703”**	**27**	**3 Pads**

NOTES
Lock Up
1800-2200 Stall
Built w/ Flanged Hub

APPLICATION | CODES
High Performance
CB

GM
350 NON LOCK UP

GM4401

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5” (10.7”)	**1.703”**	**30**	**3 Pads, Bolts Only**

NOTES
Non Lock Up
1400-1600 Stall
Includes Converter Bolts

APPLICATION | CODES
1969-79 Replaces GM1A & GM350
(350 Conversion Unit)

GM1A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5” (10.7”)	**1.703”**	**30**	**3 Pads, Bolts Only**

NOTES
Non Lock Up
Replace w/ GM4401
350 Conversion Unit
1600-1800 Stall
For HD - Use GM1AHD

APPLICATION | CODES
1969-79 Buick, Pontiac, Olds

GM350

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5” (10.7”)	**1.703”**	**30**	**3 Pads, Nuts & Bolts**

NOTES
Non Lock Up
Replace w/ GM4401
350 Conversion Unit
1400-1600 Stall
For HD - Use GM350F

APPLICATION | CODES
1969-79 Chevrolet

GM8

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5” (10.7”)	**1.703”**	**30**	**6 Pads, Bolts Only**

NOTES
Non Lock Up
1400-1600 Stall

APPLICATION | CODES
1969-79 Checker Cab

GM3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13” (11.5”)	**1.703”**	**30**	**3 Pads, Bolts Only**

NOTES
Non Lock Up
1300-1500 Stall

APPLICATION | CODES
1969-79 Chevrolet

PG10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (10")	**1.703"**	**30**	**3 Pads, Nuts & Bolts**

NOTES
Non Lock Up
2200-2400 Stall
Cooling Shroud

APPLICATION | CODES
1972-75 Vega, Monza 4 & 6 Cyl.

PG11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (10.5")	**1.703"**	**30**	**3 Pads, Nuts & Bolts**

NOTES
Non Lock Up
1600-1800 Stall
Cooling Shroud

APPLICATION | CODES
1973-77 Vega, Monza 4 Cyl.

GM350HP-10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (10.7"/11.5")	**1.703"**	**30**	**3 Pads, Nuts & Bolts**

NOTES
Non Lock Up
3000-3400 Stall
Dual Bolt Pattern

APPLICATION | CODES
High Performance (Will Work on TH400)

GM350HP-11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10.7")	**1.703"**	**30**	**3 Pads, Nuts & Bolts**

NOTES
Non Lock Up
2200-2600 Stall

APPLICATION | CODES
High Performance (Will Work on TH400)

GM350HP-12

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5" (10.7")	**1.703"**	**30**	**3 Pads, Nuts & Bolts**

NOTES
Non Lock Up
1800-2200 Stall

APPLICATION | CODES
High Performance (Will Work on TH400)

GM
350C LOCK UP

GM16AL

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Lock Up
1400-1600 Stall

APPLICATION | CODES
1980-86 Most Trucks, Vans, Diesels
BG, BG4C, BG8D, L7, M7, P6

GM16

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Lock Up
1600-1800 Stall

APPLICATION | CODES
1980-86 Most Cars Exc. HP
BE, BE4C, BE4D, BE8D, BE8F, BF, BF4C

GM16AH

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Lock Up
1800-2000 Stall

APPLICATION | CODES
1980-86 Turbo, Camaro, Corvette, HP
BB, BB4C, BB4D, BB8D, BB8F

GM20F

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Lock Up
w/ Poppet Valve
1400-1600 Stall
Furnace Brazed

APPLICATION | CODES
1980-86 5.7L Diesel, 6.2L Diesel
1R6, 1R7, BG9D, BH9D

GM16AF

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Lock Up
1400-1600 Stall
Furnace Brazed
Replaces 6 Pad GM30

APPLICATION | CODES
1980-86
BG, BG4C, BG8D, L7, M7, P6

GM160

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Clutch Omitted
1600-1800 Stall

APPLICATION | CODES
1980-86 Clutch Omitted
BE, BE4C, BE4D, BE8D, BE8F, BF, BF4C

GM3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	3 Pads

NOTES
Non Lock Up
1300-1500 Stall
3 Rows of Ribs

APPLICATION | CODES
1968-Up Exc. Jaguar

GM3-HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	3 Pads

NOTES
Non Lock Up
1350-1500 Stall
Flanged Hub
Heavy Duty Bearing

APPLICATION | CODES
Do Not Use With Allisons

GM3R-HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	3 Pads

NOTES
Non Lock Up
1350-1500 Stall
Regular Hub
Heavy Duty Bearing

APPLICATION | CODES
Do Not Use With Allisons

GM3H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	3 Pads

NOTES
Non Lock Up
1750-2000 Stall
2 Rows of Ribs

APPLICATION | CODES
1968-Up Exc. Jaguar

JA7

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	3 Pads

NOTES
Non Lock Up
1500-1700 Stall
2 or 3 Rows of Ribs

APPLICATION | CODES
1968-Up Jaguar

GM2

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	3 Pads

NOTES
Non Lock Up
Variable Pitch
1350-1500 Stall
3 Rows of Ribs

APPLICATION | CODES
1964-67 w/ Variable Pitch Stator

GM
400, 3L80 (6 PAD)

GM6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	**1.703"**	**30**	**3 Pads**

NOTES
Non Lock Up
1300-1500 Stall
Built w/ Flanged Hub

APPLICATION | CODES
1968-Up Exc. Jaguar

GM6-HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	**1.703"**	**30**	**6 Pads**

NOTES
Non Lock Up
1300-1500 Stall
Flanged Hub
Heavy Duty Bearing

APPLICATION | CODES
Do Not Use With Allisons

GM6R-HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	**1.703"**	**30**	**6 Pads**

NOTES
Non Lock Up
1300-1500 Stall
Regular Hub
Heavy Duty Bearing

APPLICATION | CODES
Do Not Use With Allisons

GM6H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	**1.703"**	**30**	**6 Pads**

NOTES
Non Lock Up
1700-1900 Stall
2 Rows of Ribs

APPLICATION | CODES
1968-Up Exc. Jaguar

JA4

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	**1.703"**	**30**	**6 Pads**

NOTES
Non Lock Up
1700-1900 Stall
2 or 3 Rows of Ribs

APPLICATION | CODES
1968-Up Jaguar 12 Cyl.

GM3-HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	3 Pads

NOTES
Non Lock Up
1350-1500 Stall
Flanged Hub
Heavy Duty Bearing

APPLICATION | CODES
Do Not Use With Allisons

GM3R-HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	3 Pads

NOTES
Non Lock Up
1350-1500 Stall
Regular Hub
Heavy Duty Bearing

APPLICATION | CODES
Do Not Use With Allisons

GM6-HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	6 Pads

NOTES
Non Lock Up
1300-1500 Stall
Flanged Hub
Heavy Duty Bearing

APPLICATION | CODES
Do Not Use With Allisons

GM6R-HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	6 Pads

NOTES
Non Lock Up
1300-1500 Stall
Regular Hub
Heavy Duty Bearing

APPLICATION | CODES
Do Not Use With Allisons

A3HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	6 Pads

NOTES
Non Lock Up
1300-1500 Stall
Built w/ Flanged Hub

APPLICATION | CODES
Gas & Diesel (Allison or TH400)
270, 275

A6HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	1.703"	30	6 Pads

NOTES
Non Lock Up
1200-1400 Stall
Built w/ Flanged Hub

APPLICATION | CODES
Diesel (Allison or TH400)
290

GM85

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9.74”)	.825”	27	3 Pads, .925” Tall

NOTES
Non PWM
High Stall
1.00” Tall Pilot

APPLICATION | CODES
1994-02 Passport 3.2L, 91-03 Rodeo 3.2L, 90-02 Trooper 3.2L & 3.5L, 96-99 Acura SLX 3.2L & 3.5L

SFHE, SFHT, SFLT, 8681486, 24200145

GM24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9.375”)	.825”	27	3 Pads, 1.40” Tall

NOTES
Non PWM
High Stall
1.55” Tall Pilot

APPLICATION | CODES
1990-92 Trooper 2.2L, 2.6L, 2.8L

SELP, SE9P, SFLP, SF6X, SJHS, SJLP, SJ9K, 8680189

BMW29LS

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.1” (9.2”)	1.257”	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
1900-2100 Stall
1.14” Tall Pilot
.930” Tall Pads

APPLICATION | CODES
1992-00 328i, 90-99 528i

SGHS, SG9S, 24200343, 24210707

BMW29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.1” (9.2”)	1.257”	27	3 Pads, .930” Tall

NOTES
Carbon Woven
High Stall
1.14” Tall Pilot

APPLICATION | CODES
1992-99 318i, 92-99 325i, 90-95 525i

SE9S, SEHS, SJHS, SJLS, SJ9S, SZHS, 8678197, 96041177, 24200322, 24200344, 24211289

GM87

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2” (9.75”)	**.825”**	**27**	**6 Pads, .900” Tall**

NOTES
PWM w/o ECCC
Low Carbon
1” Tall Pilot

APPLICATION | CODES
1994-98 Passport 3.2L, Isuzu 3.2L Including Amigo, Rodeo, Trooper
24210868, 24210869, 24211068, 24211228

TSB: **40, 41**

GM87CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2” (9.75”)	**.825”**	**27**	**6 Pads, .900” Tall**

NOTES
PWM w/ ECCC
Carbon Woven
1” Tall Pilot

APPLICATION | CODES
1999-02 Passport 3.2L, Isuzu 3.5L Including Trooper, Rodeo, Axiom
24211229, 24213406, 24213496

TSB: **40, 41**

GM24-6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25” (9”)	**.825”**	**27**	**6 Pads, 1” Tall**

NOTES
PWM
Low Stall
1.55” Tall Pilot

APPLICATION | CODES
1997-98 Catera 3.0L, 94-02 Passport 2.6L
SGHB, SGHH, SGHR, H57, 24020031, 24200319, 24210705

GM24-6H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25” (9”)	**.825”**	**27**	**6 Pads, 1” Tall**

NOTES
PWM
High Stall
1.55” Tall Pilot

APPLICATION | CODES
1999-01 Catera 3.0L, 00-03 Rodeo 2.2L, 2.6L
SJHR, 24210708, 24210713, 24210715

TRANSTAR INDUSTRIES, INC.®

GM TH-350 Torque Converter

RECON™

GM4401 Features:

- Late model impeller turbine & stator used in TH700-R4
- 100% brazed or welded fins
- Heavy duty hardened turbine hub
- Heavy duty CUSTOM impeller hub
- Wider universal pad design – all bolts included
  - Allows this torque converter to replace:
    - The GM350 (Chevrolet apps)
    - GM1A (Buick/Oldsmobile/Pontiac apps)
- Special custom design has been dyno tested to ensure proper and proven performance in GM350 transmissions

GM350/GM1A Phase Out

Rebuildable core disappearing

- Found in old/classic vehicles out of production
- Used in racing applications
- Cores are destroyed upon return
- Multiple poor pad designs
- Older impeller and turbine designs

Solution:

Custom conversion of TH700-R4 torque converter core

*3 YEAR WARRANTY INDUSTRY BEST

Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*

* Recon by Transtar Torque Converter Limited Warranty

** ONLY if your converter does NOT have a sticker, should you refer to this chart. The converters listed have been identified by various sources to “possibly” fit these engine sizes. Please compare every converter listed for each engine size.

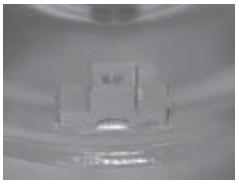
200C, 200-4R, 700-R4, 4L60, 4L60E (Non PWM)							
10” (245mm) (On/Off Lining)							
GM58HD	2.8L (Exc Camaro)	2.6L	2.8L(Some)	3.1L	3.4L	3.8L	
GM61HD	2.8L (Camaro)	1.8L	1.9L	2.0L	2.2L	2.5L	2.8L(Some)
GM59HD *	Replaced by GM58HD*	3.8L					
*** GM59 Series with PWM are not replaced by the GM58 Series**							
12” (298mm) (27 Spline) (On/Off Lining)							
GM15	Most Passenger Cars	3.8L	4.1L	4.3L	5.0L	5.7L	
GM15AH	Most Corvettes, Camaros, Turbos	3.8L	4.1L	4.3L	4.4L	4.9L	5.0L
GM15AL	Most Trucks, Vans, Some Diesels	4.3L	5.0L	5.7L			
GM15S	Cadillac 4.1L, 4.5L DFI (Static Open)	4.1L	4.5L				
GM15ALF	5.7L, 6.2L Diesel	5.7L-D	6.2L-D				
GM19	5.7L, 6.2L Diesel (Poppet Valve)	5.7L-D	6.2L-D				
12” (298mm) (30 Spline) (On/Off Lining)							
GM18A	Most Passenger Cars	4.3L	5.0L	5.7L			
GM18AH	Most Corvettes, Camaros, Turbos	4.3L					
GM18AL	Most Trucks, Vans, Some Diesels	5.0L	5.7L				
GM18ALF	5.7L, 6.2L Diesel	5.7L-D	6.2L-D				

700-R4, 4L60, 4L60E (245 mm, 280mm)

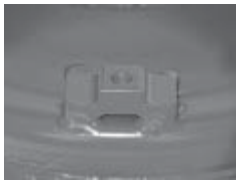
ID 245 mm & 280 mm

245 mm Input Shaft

280 mm Input Shaft



245 mm Pads



280 mm Pads

700-R4, 4L60, 4L60E, 4L65E (298 mm)

298 mm Family

To ID 298 mm Units

27 Splines on Input Shaft

30 Splines on Input Shaft

298 mm Rectangle Pad

298 mm Round Pad

4L60E, 4L65E (300 mm) (See also 280 mm, 298 mm)

300 mm Family

To ID 300 mm Units

The pads and input shaft of the 300 mm family are the same as the pads and input shaft of the 280 mm family. 280 mm family include codes VJCX and are listed in the catalog before the 298 mm family.

300 mm Input Shaft

300 mm Pads

GM
4L60 (700-R4), 4L60E, 4L65E, 4L70E

GM58HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads, 10mm x 1.5

NOTES
Non PWM
On/Off Lining
1800-2000 Stall
Built w/ Flanged Hub

APPLICATION | CODES
2.8L Exc. Camaro, 2.6L, 3.1L, 3.4L, 3.8L
HD2, HE9D, HJ2, HJAD, HL9D, HY, HY9D

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM61HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads, 10mm x 1.5

NOTES
Non PWM
On/Off Lining
2350-2750 Stall
Built w/ Flanged Hub

APPLICATION | CODES
2.8L Camaro, 1.8L, 1.9L, 2.0L, 2.5L
HA, HB, HK, HZ, HZAD

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM59CHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads, 10mm x 1.5

NOTES
PWM w/o ECCC
Low Carbon
1400-1525 Stall
Built w/ Flanged Hub

APPLICATION | CODES
3.8L
HY, HYHD

TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161

GM58CHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads, 10mm x 1.5

NOTES
PWM w/o ECCC
Low Carbon
1800-2000 Stall
Built w/ Flanged Hub

APPLICATION | CODES
2.6L, Some 2.8L, 3.1L, 3.4L
HE, HEHD, HL, HLHD

TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161

GM61CHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads, 10mm x 1.5

NOTES
PWM w/o ECCC
Low Carbon
2350-2750 Stall
Built w/ Flanged Hub

APPLICATION | CODES
1.8L, 1.9L, 2.0L, 2.2L, 2.5L, Some 2.8L
HBCD, HBHD, HZHD

TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161

GM59CWHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads, 10mm x 1.5

NOTES
PWM w/ ECCC
Carbon Woven
1400-1525 Stall
Built w/ Flanged Hub

APPLICATION | CODES
3.8L
HYQD

TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161

GM58CWHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads, 10mm x 1.5

NOTES
PWM w/ ECCC
Carbon Woven
1800-2000 Stall
Built w/ Flanged Hub

APPLICATION | CODES
2.6L, Some 2.8L, 3.1L, 3.4L, Also 03-11 2.8L, 2.9L Colorado & Canyon)

HLQD, 242169407, 24227093

TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161

GM61CWHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.875")	.825"	27	3 Pads, 10mm x 1.5

NOTES
PWM w/ ECCC
Carbon Woven
2350-2750 Stall
Built w/ Flanged Hub

APPLICATION | CODES
1.8L, 1.9L, 2.0L, 2.2L, 2.5L, Some 2.8L

HBFD, 24207200

TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161

GM56

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.6" (9.7")	.825"	27	3 Pads

NOTES
PWM w/ ECCC
Carbon Woven
Med. Stall

APPLICATION | CODES
2003-11 Colorado & Canyon 3.5L, 3.7L, Hummer w/ 2.8L, 3.5L (2.8L, 2.9L Colorado & Canyon Use GM58CWHD)

24216770, 24238404, 24238504

TSB: 4, 5, 12, 13, 18, 81, 82, 84, 86, 88, 89, 161

GM95

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (10.75")	1.703"	27	3 Pads

NOTES
PWM w/ ECCC
Carbon Woven
Low Stall

APPLICATION | CODES
2005-06 Astro, Safari 4.3L

24227628, LuK logo

TSB: 4, 5, 12, 16, 18, 81, 82, 84, 86, 88, 89, 161

GM93

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.78" (10.75")	.825"	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall

APPLICATION | CODES
2008-09 Trailblazer 4.2L 4wd

24241978

TSB: 4, 5, 81, 82

GM46

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.815" (9.75")	.825"	30	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall

APPLICATION | CODES
2005-12 Silverado 5.3L Hybrid

24216771

TSB: 4, 5, 81, 82

GM
4L60 (700-R4), 4L60E, 4L65E, 4L70E

GM15AL

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Non PWM
1400-1600 Stall
For Brazed, Use GM15ALF

APPLICATION | CODES
Most Trucks, Vans & Diesels
CG, CG3C, CG5E

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM15ALF

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Lock Up
1400-1600 Stall
Brazed GM15AL
Replaces 6 Pad GM23

APPLICATION | CODES
1981-90 5.7L Diesel, 6.2L Diesel
CG, CG3C, CK

GM15

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Non PWM
1600-1800 Stall
For Brazed, Use GM15AF

APPLICATION | CODES
Most Cars Exc. HP
CE, CE3C, CE4C, CF, CF4C, CF9C

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM15AH

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Non PWM
1800-2000 Stall
For Brazed, Use GM15AHF

APPLICATION | CODES
Turbo, Camaro, Corvette, HP
CB, CB4C, CB5C

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM15-HP

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Non PWM
1800-2200 Stall
Built w/ Flanged Hub

APPLICATION | CODES
High Performance
CB, CB4C, CB5C

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM150

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	27	3 Pads

NOTES
Clutch Omitted
1600-1800 Stall

APPLICATION | CODES
Dummy Lock Up
CE, CE3C, CE4C, CF, CF4C, CF9C

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM18AL

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Non PWM
On/Off Lining
1400-1600 Stall
For Brazed, Use GM18ALF

APPLICATION | CODES
Most Trucks, Vans & Diesels
DG5F, DGAF, DGAG, DK5E, DK5F

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM18A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Non PWM
On/Off Lining
1600-1800 Stall
For Brazed, Use GM18AF

APPLICATION | CODES
Most Cars Exc. HP
DE5F, DE8F, DEAF, DEBF, DF5F, DL5F, DL8F, DFAF

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM18AH

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Non PWM
On/Off Lining
1800-2000 Stall
For Brazed, Use GM18AHF

APPLICATION | CODES
Turbo, Camaro, Corvette, HP
DB8F, DBAF, DC8F, DCAF

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM18A-HP

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Non PWM
On/Off Lining
1800-2200 Stall
Built w/ Flanged Hub

APPLICATION | CODES
High Performance
DB8F, DBAF, DC8F, DCAF

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM180A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Clutch Omitted
1600-1800 Stall
Dummy Lock Up

APPLICATION | CODES
Most Cars Exc. HP
DE5F, DE8F, DEAF, DEBF, DF5F, DL5F, DL8F, DFAF

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM180AH

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
Clutch Omitted
1800-2000 Stall
Dummy Lock Up

APPLICATION | CODES
Turbo, Camaro, Corvette, HP
DB8F, DBAF, DC8F, DCAF

TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM
4L60 (700-R4), 4L60E, 4L65E, 4L70E

GM33

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
PWM w/o ECCC
Low Carbon
1400-1600 Stall

APPLICATION | CODES
Most Trucks, Vans & Diesels

DGHF, DGHG, DHHF, DHHG, DGAF, DGCF, DGCG, DGHF, DGHC, DG5C, DG5F, DE6F, DKAF, DKGF, DKHF, DKLF, DHPF

TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161

GM35

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
PWM w/o ECCC
Low Carbon
1600-1800 Stall

APPLICATION | CODES
Most Cars Exc. HP

DCLF, DELF, DFLF, DF5F, DF6F, DFLF, DLLF

TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161

GM31

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
PWM w/o ECCC
Low Carbon
1800-2000 Stall

APPLICATION | CODES
Turbo, Camaro, Corvette, HP

DBHC, DBAF, DBCF, DBLF

TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161

GM33CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
PWM w/ ECCC
Carbon Woven
1400-1600 Stall

APPLICATION | CODES
Most Trucks, Vans & Diesels

DGGF, DGPF, DHDF, DHHG, DHPF, DHPG, DKNF, DKPF, DLPH

TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161

GM35CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
PWM w/ ECCC
Carbon Woven
1600-1800 Stall

APPLICATION | CODES
Most Cars Exc. HP

DCNF, DLNF, DLPF, 24210922

TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161

GM31CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (10.7")	1.703"	30	3 Pads

NOTES
PWM w/ ECCC
Carbon Woven
1800-2000 Stall

APPLICATION | CODES
Turbo, Camaro, Corvette, HP

DBNF

TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161

GM55

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11”)	1.703”	30	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
280mm
1800-2000 Stall

APPLICATION | CODES
2002-07 Envoy, Trailblazer 4.2L

JCXB, VJCK, VJCX, 24215557, 24224075, 24228392, 24228708, 24238578, 24240603

TSB: 4, 5, 12, 15, 18, 81, 82, 84, 85, 87, 88, 89, 161

GM54

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5” (9.25”)	1.703”	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall
06-07 Corvette See 6L80E

APPLICATION | CODES
2005 Corvette 6.0L

TMBV, 24229277

TSB: 4, 5, 12, 13, 15, 18, 81, 82, 84, 85, 87, 88, 89, 161

GM90

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5” (11”)	1.703”	30	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
300mm
1600-1800 Stall

APPLICATION | CODES
1998-05 4.3L, Some 4.8L

TLBX, TLCX, TLTX, TXBX, 24206636, 24213391, 24213392, 24212423

TSB: 4, 5, 12, 15, 18, 81, 82, 84, 85, 87, 88, 89, 161

GM92

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5” (11”)	1.703”	30	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
300mm
1400-1600 Stall

APPLICATION | CODES
1998-07 3.4L, Some 4.8L, 5.3L, 5.7L, 6.0L exc Corvette

TMAX, TMBX, TWBX, 24206642, 24208325, 24210919, 24213393, 24227088

TSB: 4, 5, 12, 13, 15, 18, 81, 82, 84, 85, 87, 88, 89, 161

GM81

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.75” (11.5”)	**1.703”**	**35**	**6 Pads**

NOTES

Stock Clutch Piston
1800-2000 Stall
2.05” Hub Height
GM81 w/ Flanged Hub Can
Replace GM88

APPLICATION | CODES

1991-97 w/ 6.5L, 7.4L

1SA0, 1SA1, 194, 492, 528, 576, 606, 675, 849, 8676528, 8682606, 8683670, 8683671, 8683675, 24202989, 24202990, 24202991, 24217609

TSB: **3, 47, 48, 49, 148, 149**

GM81-BP

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.75” (11.5”)	**1.703”**	**35**	**6 Pads**

NOTES

Billet Clutch Piston
1800-2000 Stall
2.05” Hub Height

APPLICATION | CODES

1991-97 w/ 6.5L, 7.4L

1SA0, 1SA1, 194, 492, 528, 576, 606, 675, 849, 8676528, 8682606, 8683670, 8683671, 8683675, 24202989, 24202990, 24202991, 24217609

TSB: **3, 47, 48, 49, 148, 149**

GM82

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.75” (11.5”)	**1.703”**	**35**	**6 Pads**

NOTES

Stock Clutch Piston
2200-2400 Stall
2.05” Hub Height
GM82 w/ Flanged Hub Can
Replace GM88H

APPLICATION | CODES

1991-97 w/ 4.3L, 5.7L, 6.2L

1SB1, 19B1, 193, 366, 526, 604, 8676526, 8682604, 8690903, 24202992, 24202993, 24210693

TSB: **3, 47, 48, 49, 148, 149**

GM82-BP

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.75” (11.5”)	**1.703”**	**35**	**6 Pads**

NOTES

Billet Clutch Piston
2200-2400 Stall
2.05” Hub Height

APPLICATION | CODES

1991-97 w/ 4.3L, 5.7L, 6.2L

1SB1, 19B1, 193, 366, 526, 604, 8676526, 8682604, 8690903, 24202992, 24202993, 24210693

TSB: **3, 47, 48, 49, 148, 149**

GM88

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.75" (11.5")	1.703"	35	6 Pads

NOTES
Stock Clutch Piston
1800-2000 Stall
2.65" Hub Height
GM88 Can Replace GM81

APPLICATION | CODES
1998-Up w/ 6.5L, 7.4L

24202989, 24210827, 24210828, 24210829, 24210862, 24211407, 24217236, 24217328, 24217609, 2419327, 24219329, 24228538, 24240863

TSB: 3, 47, 48, 49, 148, 149

GM88-BP

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.75" (11.5")	1.703"	35	6 Pads

NOTES
Billet Clutch Piston
1800-2000 Stall
2.65" Hub Height

APPLICATION | CODES
1998-Up w/ 6.5L, 7.4L

24202989, 24210827, 24210828, 24210829, 24210862, 24211407, 24217236, 24217328, 24217609, 2419327, 24219329, 24228538, 24240863

TSB: 3, 47, 48, 49, 148, 149

GM88H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.75" (11.5")	1.703"	35	6 Pads

NOTES
Stock Clutch Piston
2200-2400 Stall
2.65" Hub Height
GM88H Can Replace GM82

APPLICATION | CODES
1998-Up w/ 4.8L, 6.0L

364, 830, 12491334, 17803871, 24210825, 24210830, 24210831, 24217235, 24217364, 24219303, 24219326, 24219328, 24219330, 24227936

TSB: 3, 47, 48, 49, 148, 149

GM88H-BP

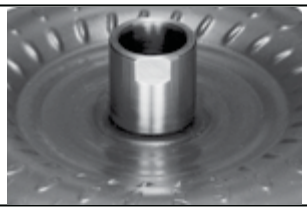
DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.75" (11.5")	1.703"	35	6 Pads

NOTES
Billet Clutch Piston
2200-2400 Stall
2.65" Hub Height

APPLICATION | CODES
1998-Up w/ 4.8L, 6.0L

364, 830, 12491334, 17803871, 24210825, 24210830, 24210831, 24217235, 24217364, 24219303, 24219326, 24219328, 24219330, 24227936

TSB: 3, 47, 48, 49, 148, 149

	To ID 4L80E Units			
4L80E ID Information	Measure the Hub Height and determine if it is 2.05" or 2.65". Then check the fin angle for Low or High Stall.		Measure Hub Length	4L80E Pads
4L80E ID Information	Units with this plate can be replaced by non-plated converters.	Some Units Have a Plate	 2.05" Hub	2.65" Hub

GM63CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2” (9.35”)	**.824”**	**27**	**3 Pads**

NOTES
Carbon Woven
1400-1475 Stall

APPLICATION | CODES
3.1L Sunfire
FH, FY, FYHB, 24208476

TSB: **30, 31**

GM71CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2” (9.35”)	**.824”**	**27**	**3 Pads**

NOTES
Carbon Woven
1500-1750 Stall

APPLICATION | CODES
3.1L Achieva, 3.4L Alero, Grand Am, All 3.5L
FG, FL, FM, FGHB, FGKB, FLHB, FLQB, 24212743, 24222019, 24222784, 24224255, 24222789, 24227094

TSB: **30, 31**

GM42CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2” (9.35”)	**.824”**	**27**	**3 Pads, 10mm x 1.5**

NOTES
Carbon Woven
1800-2200 Stall

APPLICATION | CODES
3.4L Malibu, 2.4L Saturn Aura Hybrid, 2.4L G6
FD, FE, FJ, FDQB, 24235591, 24241866

TSB: **30, 31**

GM73CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2” (9.35”)	**.824”**	**27**	**3 Pads**

NOTES
Carbon Woven
2300-2900 Stall

APPLICATION | CODES
All 1.6L, 2.0L, 2.2L, 2.3L, & 2.4L Except G6 & Aura
FA, FB, FC, FK, FZ, FBFB, FZFB, 24211330, 24241866 (FZBB & FZRB = GM67, FZCB = GM73C)

TSB: **30, 31**

GM94

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2” (9.5”)	**.824”**	**27**	**3 Pads**

NOTES
Lock Up
1600-1800 Stall

APPLICATION | CODES
All 3.0L Including 2000-05 Saturn L Series
FLKF, 24208326

TSB: **30, 31**

GM STICKER CODES

The four digit codes start with a letter. This code is “FLTV”. The 1st digit “F” indicates Fwd or Rwd. The 2nd digit “L” indicates the approximate stall speed and the approximate “K Factor”. The 3rd digit “T” indicates the type of clutch damper plate and the type of friction material. The 4th digit indicates the type of front cover by bolt pattern, Fwd or Rwd and the transmission type. If the converter has been rebuilt before, do not rely on the fin angle or the sticker for identification. In the remanufacturing process, covers and impellers can be mixed and matched.

“FLTV”

First Digit: Fwd / Rwd
F: Fwd 245 mm
125C, 440-T4, 4T60E etc
H: Rwd 245 mm
200C, 700-R4, 4L60E etc
1.750” Hub Diameter
J: Fwd 258 mm
Some 4T65E
S: Rwd 245 mm
180C, 4L30E
1.875” Hub Diameter

Second Digit: (Approximates)
A: 2800 Stall, 240 K Factor
B: 2600 Stall, 220 K Factor
C: 2400 Stall, 205 K Factor
D: 2100 Stall, 180 K Factor
E: 1900 Stall, 160 K Factor
F: 1700 Stall, 148 K Factor
G: 1600 Stall, 140 K Factor
H: 1500 Stall, 130 K Factor
J: 2100 Stall, 176 K Factor
K: 2800 Stall, 236 K Factor
L: 1900 Stall, 164 K Factor
M: 1500 Stall, 131 K Factor
N: 2200 Stall, 188 K Factor
P: 2800 Stall, 241 K Factor
W: 1900 Stall, 167 K Factor
Y: 1400 Stall, 122 K Factor
Z: 2400 Stall, 203 K Factor

Third Digit: Damper, Friction Material
0: Clutch Omitted, NF
1: LD Spring Damper, PF
2: MD Spring Damper, PF
4: HD Spring Damper, PF
5: Spring Damper, CRV, PF
6: MD Spring Damper, PF
7: Spring Damper, CRV, PF
8: Viscous Clutch, PF
9: HD Spring Damper, PF
A: MD Spring Damper, PF
B: Spring Damper, CRV, PF
C: LD Spring Damper, PF
D: Various, PF & LCC
E: HD Spring Damper, LCC
F: Various, PF, LCC & WC
G: MD Spring Damper, PF
H: HD Spring Damper, PF 1991-95
H: HD Spring Damper, LCC or WC 1996-UP
K: HD Spring Damper, LCC or WC
L: HD Spring Damper, PF
M: HD Spring Damper, PF
P: HD Spring Damper, LCC
Q: HD Spring Damper, PF or LCC
R: Spring Damper, CRV, PF
T: HD Spring Damper, WC
V: HD Spring Damper, WC
W: HD Spring Damper, WC
Y: HD Spring Damper, WC
Z: HD Spring Damper, WC

Fourth Digit: Bolt Circle, Trans Type
A: Fwd Opel
B: Fwd 125C, 4T40/45E, 4T60/65E 237 MM Bolt Circle
C: Fwd Viscous Clutch
D: Rwd 4L60/60E 248 mm Bolt Circle
E: Rwd 180, 180C 237 mm Bolt Circle
F: Rwd 180, 180C 237 mm Bolt Circle
G: Rwd 180, 180C 248 mm Bolt Circle
H: Rwd 180, 180C 248 mm Bolt Circle
J: Rwd 180, 180C 248 mm Bolt Circle
K: Rwd 4L30E 237 mm Bolt Circle
M: Fwd 4T65E 248 mm Bolt Circle
N: Rwd 180, 180C 237 mm Bolt Circle
P: Rwd 4L30E 237 mm Bolt Circle
R: Rwd 4L30E
S: Rwd 4L30E 237 mm Bolt Circle BMW w/ 1.275” Pilot
T: Rwd 4L30E
U: Rwd 180, 180C 208 mm Bolt Circle
V: Fwd 4T65E Volvo 6 Pad
W: Rwd 4L30E
X: Rwd 180, 180C, 4L30E
Z: Rwd 180, 180C, 4L30E

Legend:
Fwd: Front Wheel Drive
CRV: Coast Relief Valve
HD: Heavy Duty
LD: Light Duty
MD: Medium Duty
PF: Paper Friction Material
LCC: Paper w/ Low Carbon
Rwd: Rear Wheel Drive
WC: Woven Carbon

Friction Material
Top = Woven Carbon
Mid = Paper w/ Low Carbon
Bottom = Paper

GM
4T60 (440-T4), 4T60E, 4T65E

GM63

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Lock Up
1400-1475 Stall

APPLICATION | CODES
1984-93 3.3L, 3.8L, 4.3L
FH, FY, FH5, FY4B, FY5, FY5B, FY6B, FY7, FY7B, FY9B, FYAB

TSB: **105**

GM71

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Lock Up
1500-1750 Stall
Replaces Viscous GM77

APPLICATION | CODES
1984-93 2.3L, 2.4L, 3.1L, 3.3L, 3.4L, 3.8L
FG, FL, FM, FG9B, FGAB, FL4B, FL8C, FL9B, FLDB, FM4, FM5, FM7, FM8C, FM9, FM4B, FM9B

TSB: **105**

GM42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Lock Up
1800-2200 Stall

APPLICATION | CODES
1984-93 1.8L, 2.0L, 2.2L, 2.3L, 2.5L, 2.8L, 3.0L, 3.1L, 3.4L, 3.8L
FD, FE, FJ, FD2B, FD4B, FD6B, FDAB, FDEB, FE4B, FJ2B, FJ4B, FJ9B, FJAB, FJBB

TSB: **105**

GM73

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Lock Up
2300-2900 Stall
FZCB = GM73C

APPLICATION | CODES
1984-93 1.8L, 2.0L, 2.2L, 2.3L, 2.4L, 2.5L, 2.8L
FA, FB, FC, FK, FZ, FA4B, FAAB, FACB, FB2B, FB4B, FBAB, FK1B, FKBB, FZ1B, FZ2B (FZBB/FZRB = GM67)

TSB: **105**

GM63C

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Low Carbon Content
1400-1475 Stall

APPLICATION | CODES
3.3L, 3.8L, 4.3L
FH, FY, FH5, FY4B, FY5, FY5B, FY6B, FY7, FY7B, FY9B, FYAB

TSB: **106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165**

GM71C

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Low Carbon Content
1500-1750 Stall

APPLICATION | CODES
2.3L, 2.4L, 3.1L, 3.3L, 3.4L, 3.8L
FG, FL, FM, FGHB, FGKB, FLHB, FLQB, 24212743, 24222019, 24222784, 24224255, 24222789, 24227094

TSB: **106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165**

GM42C

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Low Carbon Content
1800-2200 Stall

APPLICATION | CODES
1.8L, 2.0L, 2.2L, 2.3L, 2.5L, 2.8L, 3.0L, 3.1L, 3.4L, 3.8L
FD, FE, FJ, FDHB, FDKB, FJHB

TSB: **106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165**

GM73C

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Low Carbon Content
2300-2900 Stall

APPLICATION | CODES
1.8L, 2.0L, 2.2L, 2.3L, 2.4L, 2.5L, 2.8L
FA, FB, FC, FK, FZ, FZCB, FZEB, FZPB (FZBB & FZRB Use GM67)

TSB: **106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165**

GM63CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Carbon Woven
1400-1475 Stall

APPLICATION | CODES
3.3L, 3.8L, 4.3L
FH, FY, FYHB, 24208476

TSB: **106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165**

GM71CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Carbon Woven
1500-1750 Stall

APPLICATION | CODES
2.3L, 2.4L, 3.1L, 3.3L, 3.4L, 3.8L, 1998-99 3.8L Chevy, BPO
FG, FL, FM, FGHB, FGKB, FLHB, FLQB, 24212743, 24222019, 24222784, 24224255, 24222789, 24227094

TSB: **106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165**

GM42CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Carbon Woven
1800-2200 Stall

APPLICATION | CODES
1.8L, 2.0L, 2.2L, 2.3L, 2.5L, 2.8L, 3.0L, 3.1L, 3.4L, 3.8L, 1997-02 3.4L Chevy, 3.1L BPO, 1999 2.5L & 3.0L Buick
FD, FE, FJ, FDQB, 24235591, 24241866

TSB: **106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165**

GM73CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	**.824"**	**27**	**3 Pads**

NOTES
Carbon Woven
2300-2900 Stall
FZCB = GM73C

APPLICATION | CODES
1.8L, 2.0L, 2.2L, 2.3L, 2.4L, 2.5L, 2.8L
FA, FB, FC, FK, FZ, FBFB, FZFB, 24211330, 24241866 (FZBB & FZRB = GM67)

TSB: **106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165**

GM50

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.8")	.824"	27	3 Pads

NOTES
4T65E Carbon Woven
1700-1900 Stall
Sell w/ S84755A-1

APPLICATION | CODES
1997-08 3.8L Olds, Pontiac, Supercharged Buick

JSFM, 12491978, 24207239, 24207329, 24207734, 24208860, 24216224, 24216226, Green Dot

TSB: 106, 109, 112, 113, 116, 117, 165

GM51

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.8")	.824"	27	3 Pads

NOTES
4T65E Carbon Woven
1900-2100 Stall
Sell w/ S84755A-1

APPLICATION | CODES
1997-08 3.8L Olds, Pontiac, Supercharged Buick

JTFM, 24207330, 24208861, 24216230, 24230001, Yellow Dot

TSB: 106, 109, 112, 113, 116, 117, 165

GM52

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.8")	.824"	27	3 Pads

NOTES
4T65E Carbon Woven
2400-2800 Stall
Sell w/ S84755A-1

APPLICATION | CODES
1997-08 3.5L Olds

JXFM, 24207626, 24213730, 24216236, Purple Dot

TSB: 106, 109, 112, 113, 116, 117, 165

GM53

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.8")	.824"	27	3 Pads

NOTES
4T65E Carbon Woven
2200-2400 Stall
Sell w/ S84755A-1

APPLICATION | CODES
1997-08 3.8L Buick (Non SC), 3.8L Supercharged Pontiac, 03-08 Uplander 3.9L

JZFM, 12491980, 24206447, 24213729, 24215416, 24216222, 24216232, 24230004, 24230005, 24230006, Gray or Orange Dot

TSB: 106, 109, 112, 113, 116, 117, 165

VO30

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.625" (9.625")	.825"	27	6 Pads, 8mm x 1.25

NOTES
4T65E Carbon Woven
1600-1800 Stall

APPLICATION | CODES
1999-06 Volvo S80 2.9L

FLTV, FLVV, 24211943, 24216629

TSB: 106, 109, 112, 113, 116, 117, 165

VO32

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.625" (9.625")	.825"	27	6 Pads

NOTES
4T65E Carbon Woven
1500-1700 Stall

APPLICATION | CODES
1999-06 S80 2.8L, 2002-06 XC90 2.9L (Turbo)

FMTV, FMVV, 24211944, 24216630

TSB: 106, 109, 112, 113, 116, 117, 165

GM84

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9.875")	.824"	30	4 Pads

NOTES
Lock Up
Non Viscous

APPLICATION | CODES
1994-04 Cadillac 4.6L, Olds Aurora 4.0L
8682848, 8683441, 8689991, 24209249

TSB: 137

GM86

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9.875")	.824"	30	4 Pads

NOTES
OE Style
Shown For Reference Only
Viscous Clutch (Factory Style)

APPLICATION | CODES
Shown for OE Reference Only

TSB: 137

GM86A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9.875")	.824"	30	4 Pads

NOTES
Lock Up w/ On/Off Viscous Replaced w/ Damper Clutch

APPLICATION | CODES
1994-04 Cadillac 4.6L, Olds Aurora 4.0L
8683440, 8689990, 24201885, 24209428, 24205484, 24209248, 24209250, 24233679

TSB: 137

GM9401

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.8")	.824"	30	4 Pads, 10mm x 1.5

NOTES
PWM w/ ECCC
Carbon Woven

APPLICATION | CODES
2005-10 Cadillac DTS 4.6L, Buick Lucerne 4.6L
24204000

TSB: 137

	To ID 4T80E Units		
4T80E ID	There are two types of 4T80E converters, GM86 w/ Viscous Clutches & GM84 w/ Spring Damper Clutches (Non Viscous). GM86A is an aftermarket Non Viscous replacement for the GM86.	GM84 Non Viscous	GM86 Viscous

GM
5L40E, 5L50E

GM37

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2” (9.375)	**.825”**	**27**	**3 Pads, 10mm x 1.5**

NOTES
Carbon Woven
Low Stall

APPLICATION | CODES
2003-06 Cadillac CTS 2.6L, 2.8L w/ 24216146, 3.2L, 3.6L w/ 24216146
24216146

TSB: **27, 28, 29**

GM37A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25” (9.75”)	**.825”**	**27**	**3 Pads, 10mm x 1.5**

NOTES
Carbon Woven
Med. Stall

APPLICATION | CODES
2001-07 Cadillac CTS 2.8L
24222905

TSB: **27, 28, 29**

GM38

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.77” (9.75”)	**.825”**	**27**	**3 Pads, 10mm x 1.5**

NOTES
Carbon Woven
Low Stall

APPLICATION | CODES
2004-07 Cadillac CTS 3.6L w/ 24220895, SRX 3.6L, 4.4L, & 4.6L w/ 24220895
24220895, Yellow Circle Sticker

TSB: **27, 28, 29**

GM38A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75” (9.75”)	**.825”**	**27**	**3 Pads, 10mm x 1.5**

NOTES
Carbon Woven
Low Stall

APPLICATION | CODES
2003-11 Cadillac SRX 4.6L
24223281, Green Dot

TSB: **27, 28, 29**

BMW38

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25” (9.3”)	1.257”	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
High Stall

APPLICATION | CODES
1999 323i 2.5L, 01-07 3 Series 3.0L
24212840, 24214840, 24219491

TSB: 27, 28, 29

BMW38LS

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25” (9.3”)	1.257”	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall

APPLICATION | CODES
1999-00 328i 2.8L, 01-07 3 Series 2.8L
24212839

TSB: 27, 28, 29

BMW41

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.6” (9.25”)	1.257”	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall

APPLICATION | CODES
2000-01 323i 2.5L, 2000-06 X5 3.0L Non Turbo
24215581

TSB: 27, 28, 29

BMW40L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75” (9.25”)	1.257”	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall

APPLICATION | CODES
2002-04 X5 3.0L Turbo Diesel
24216768, 24225976, 24233966

TSB: 27, 28, 29

GM
6L45, 6L50, 6L80, 6L90

GM10401

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.78" (9.25")	1.703"	36	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall
Replaces GM1041

APPLICATION | CODES
2006-10 Cadillac XLR-V 4.4L Supercharged
24239065, 24240019

GM10402

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.75")	.824"	36	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall
Replaces GM1042

APPLICATION | CODES
2006-10 Cadillac STS-V 4.4L Supercharged
24226853, 24240021

GM10403

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.775" (9.75")	.824"	27	6 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall
Replaces GM1043

APPLICATION | CODES
2008-11 Cadillac CTS, STS 3.6L,
2010-11 Camaro 3.6L
24240017

GM10404

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5" (11")	1.703"	36	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall
Flanged Hub
Heavy Duty Bearing
Replaces GM1044

APPLICATION | CODES
2007-11 Chevy 2500HD 6.0L
JMBX Flanged Hub, 24242396, 24242397,
24238202

GM10405

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5" (11")	1.703"	36	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall
Non Flanged Hub
Replaces GM1045

APPLICATION | CODES
2008-11 Hummer H2 6.2L, 2006-12 GM Full Size
Truck & SUV 6.0L, Corvette 6.0L
JMBX Non Flanged Hub, 24243222,
24236469, Purple Sticker

GM10406

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5" (11.55")	1.703"	36	6 Pads

NOTES
Carbon Woven
Multi Clutch
Low Stall
Replaces GM1046

APPLICATION | CODES
2009 Chevy 4500HD 6.6L Duramax Diesel
JMDZ, ZF Sachs

GM1441

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.85” (9.25”)	**.825”**	**24**	**3 Pads, 10mm x 1.5**

NOTES

Carbon Woven
Low Stall

APPLICATION | CODES

2009-11 Saturn Aura 2.4L, 2008-12 Malibu 2.4L

24243455, D823910297

NOTES

GM1241

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25” (9.75”)	**.825”**	**27**	**4 Pads, 10mm x 1.5**

NOTES

Carbon Woven
Slightly Low Stall

APPLICATION | CODES

2007-11 Acadia, Aura, Equinox, Enclave, G6, Outlook, Torrent, Vue 3.6L

7G, 7G6, 7G7, 9A8

GM1242

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25” (9.75”)	**.825”**	**27**	**3 Pads, 10mm x 1.5**

NOTES

Carbon Woven
Slightly Low Stall

APPLICATION | CODES

2007-11 Saturn Vue 3.5L

7H, 7H7, 7H72201G0158

NOTES

GM1991

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.2” (8.875”)	**.825”**	**16**	**3 Pads, 10mm x 1.25**

NOTES	APPLICATION | CODES
Lock Up **Med. Stall**	**2006-11 Aveo 1.4L** **61A100, 2, 603**

NOTES

GM
ALUMINUM POWERGLIDE

PG10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (10")	**1.703"**	**30**	**3 Pads, Nuts & Bolts**

NOTES	APPLICATION | CODES
Non Lock Up **2200-2400 Stall** **Cooling Shroud**	**1972-75 Vega, Monza 4 & 6 Cyl.**

PG11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (10.5")	**1.703"**	**30**	**3 Pads, Nuts & Bolts**

NOTES	APPLICATION | CODES
Non Lock Up **1600-1800 Stall** **Cooling Shroud**	**1973-77 Vega, Monza 4 Cyl.**

PG3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (10.5")	**1.703"**	**17**	**3 Pads**

NOTES	APPLICATION | CODES
Non Lock Up **2200-2400 Stall** **No Cooling Shroud**	**1964-73 250 6 Cyl.**

PG6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (10.5")	**1.703"**	**17**	**3 Pads**

NOTES	APPLICATION | CODES
Non Lock Up **Low Stall** **Cooling Shroud**	

PG8

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (10.75")	**1.703"**	**17**	**3 Pads**

NOTES	APPLICATION | CODES
Non Lock Up **1800-2200 Stall** **Cooling Shroud**	**1971-73 Monza, Vega 4 Cyl.**

PG2

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25” (12”)	**1.703”**	**17**	**3 Pads, No Clips**

NOTES
Non Lock Up
1300-1500 Stall
No Cooling Shroud

APPLICATION | CODES
1963-68 409 Engine (Aluminum)

PG5

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25” (12”)	**1.703”**	**17**	**3 Pads w/ Clips**

NOTES
Non Lock Up
1500-1700 Stall
No Cooling Shroud

APPLICATION | CODES
1964-68 396 & 427 V8

PG4

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25” (10.5”)	**1.703”**	**17**	**3 Pads**

NOTES
Non Lock Up
1800-2200 Stall
No Cooling Shroud

APPLICATION | CODES
1962-73 V8 (Except 396 & 427)

GM42CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	.824"	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
1800-2200 Stall

APPLICATION | CODES
4T40E 2006-09 Aura Hybrid 2.4L
FD, FE, FJ, FDQB, 24235591, 24241866

TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165

GM73CW

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.35")	.824"	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
2300-2900 Stall

APPLICATION | CODES
4T40E 00-04 L Series 2.2L, 2004-07 Ion 2.2L
FA, FB, FC, FK, FZ, FBFB, FZFB, 24211330, 24241866

TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165

GM94

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (9.5")	.824"	27	3 Pads, 10mm x 1.5

NOTES
Lock Up
1600-1800 Stall

APPLICATION | CODES
4T40E 2000-05 L Series 3.0L
FLKF, 24208326

TSB: 30, 31

GM1441

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.85" (9.25")	.825"	24	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Low Stall

APPLICATION | CODES
6T40 2009-11 Saturn Aura 2.4L
24243455, D823910297

GM1241

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9.75")	.825"	27	4 Pads, 10mm x 1.5

NOTES
Carbon Woven
Slightly Low Stall

APPLICATION | CODES
6T70 2007-09 Aura XR 3.6L, 2007-09 Outlook 3.6L, 2007-10 Vue 3.6L
7G, 7G6, 7G7, 9A8

GM1242

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9.75")	.825"	27	3 Pads, 10mm x 1.5

NOTES
Carbon Woven
Slightly Low Stall

APPLICATION | CODES
6T70 2007-11 Saturn Vue 3.5L
7H, 7H7, 7H72201G0158

TO79

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.375")	**.825"**	**20**	**3 Pads**

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
AW55-50SN 2003-04 Ion 2.2L
43A120, YO, 434, AF33-5

TSB: **21, 128, 129, 130, 168, 178**

TO79L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.375")	**.825"**	**20**	**3 Pads**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
AW55-50SN 2003-04 Ion 2.2L, 02-03 Vue 3.0L
433, YOP, 43A160, AF33-5, 2E00192, Green Dot

TSB: **21, 128, 129, 130, 168, 178**

HO82

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.225" (12")	**.945"**	**22**	**8 Holes**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
HONDA MDRA 2004-07 Vue 3.5L
BDKA, MDKA, MDPA, MDRA, RD, RDJ

TSB: **171, 189**

GM80

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.75" (8.625")	**.905"**	**19**	**4 Pads, 10mm x 1.5**

NOTES
Lock Up
Slightly Low Stall
Hub O-Ring not Included

APPLICATION | CODES
TAAT 1995-03 S-Series 1.9L
CP3, GP3, G-P3, 76322

GM96

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.66" (9.3")	**.825"**	**19**	**3 Pads**

NOTES
CVT
Low Stall

APPLICATION | CODES
VT25E 2002-05 Vue 2.2L, 2003 Ion 2.2L
24221093, 24222998, 24227601

A7

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5" (11.5")	**1.703"**	**25**	**6 Pads**

NOTES
OE Style
Shown For Reference Only

APPLICATION | CODES
Shown for OE Reference Only

A7XL

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5" (11.5")	**1.703"**	**25**	**6 Drilled Holes**

NOTES
Single Disc Lock Up
1700-1900 Stall
Billet

APPLICATION | CODES
2000-05 TC-221 (1.75:1 Ratio) Cummins 5.9L Diesel

221, Black Sticker, 29530317, 29530319, 29538347, 29538528, 29540484, 29543017, 29549519

TSB: **25, 141, 142**

A7XL-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5" (11.5")	**1.703"**	**25**	**6 Drilled Holes**

NOTES
Multi Disc Lock Up
1700-1900 Stall
Billet

APPLICATION | CODES
2000-05 TC-221 (1.75:1 Ratio) Cummins 5.9L Diesel

221, Black Sticker, 29530317, 29530319, 29538347, 29538528, 29540484, 29543017, 29549519

TSB: **25, 141, 142**

A7X

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5" (11.5")	**1.703"**	**25**	**6 Drilled Holes**

NOTES
Single Disc Lock Up
1900-2100 Stall
Billet

APPLICATION | CODES
2000-05 TC-211 (2.01:1 Ratio) Duramax 6.6L Diesel Only

211, Green or Yellow Sticker, 29530318, 29538529, 29538348, 29543003, 29543017, 29541293

TSB: **25, 141, 142**

A7X-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5" (11.5")	**1.703"**	**25**	**6 Drilled Holes**

NOTES
Multi Disc Lock Up
1900-2100 Stall
Billet

APPLICATION | CODES
2000-05 TC-211 (2.01:1 Ratio) Duramax 6.6L Diesel Only

211, Green or Yellow Sticker, 29538529, 29538348, 29530318, 29543003, 29543017, 29541293

TSB: **25, 141, 142**

A7XH

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5" (11.5")	**1.703"**	**25**	**6 Drilled Holes**

NOTES
Single Disc Lock Up
2100-2200 Stall
Billet

APPLICATION | CODES
2000-05 TC-210 (2.06:1 Ratio) 8.1L Gas

210, Blue or Orange Sticker, 29534832, 29538531, 29538197, 29543015, 29546574, 29549521

TSB: **25, 141, 142**

AL1212

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5” (11.5”)	**1.703”**	**25**	**6 Pads, 2.10” Wide**

NOTES

Single Disc Lock Up
1700-1900 Stall
OEM Cover

APPLICATION | CODES

2000-11 TC-221 (1.75:1 Ratio) Cummins 5.9L Diesel

221, Black Sticker, 29530317, 29530319, 29538347, 29538528, 29540484, 29543017, 29549519

TSB: **25, 141, 142**

AL1210

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5” (11.5”)	**1.703”**	**25**	**6 Pads, 2.10” Wide**

NOTES

Single Disc Lock Up
1900-2100 Stall
OEM Cover

APPLICATION | CODES

2000-11 TC-211 (2.01:1 Ratio) Duramax 6.6L Diesel Only

211, Green or Yellow Sticker, 29530318, 29538529, 29538348, 29543003, 29543017, 29541293

TSB: **25, 141, 142**

AL1211

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5” (11.5”)	**1.703”**	**25**	**6 Pads, 2.10” Wide**

NOTES

Single Disc Lock Up
2100-2200 Stall
OEM Cover

APPLICATION | CODES

2000-11 TC-210 (2.06:1 Ratio) 8.1L Gas

210, Blue or Orange Sticker, 29534832, 29538531, 29538197, 29543015, 29546574, 29549521

TSB: **25, 141, 142**

GM - ALLISON
AT 540

A3HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	**1.703"**	**30**	**6 Pads**

NOTES
Non Lock Up
1350-1550 Stall
Built w/ Flanged Hub

APPLICATION | CODES
Gas & Diesel
270, 275 (Do not mix codes!)

A6HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13" (11.5")	**1.703"**	**30**	**6 Pads**

NOTES
Non Lock Up
1200-1400 Stall
Built w/ Flanged Hub

APPLICATION | CODES
Diesel Allison AT540, AT545 (Can use w/ TH400)
290 (Do not mix codes!)

A9HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5" (11.5")	**1.703"**	**30**	**6 Pads**

NOTES
Non Lock Up
1350-1550 Stall
Built w/ Flanged Hub

APPLICATION | CODES
Diesel Military Vehicles
275LU (Do not mix codes!)

TRANSTAR INDUSTRIES, INC.®

GM4L60 / 4L60E / 4L65E

RECON™

Series Features:

- Installation of late model damper components to eliminate excessive travel and rattle
- 100% brazed or welded fins

Application:

GM33 – Low stall, Kevlar friction

GM33CW – Low stall, High thermal slip friction or spun wound carbon woven friction

GM31 – High stall, Kevlar friction

GM31CW – Low stall, High thermal slip friction or spun wound carbon woven friction

GM35 – Medium stall, Kevlar friction

GM35CW – Medium stall, High thermal slip friction or spun wound carbon woven friction

Common Failures:

Friction lining failure

Solution:

Installation of new upgraded friction linings

Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*

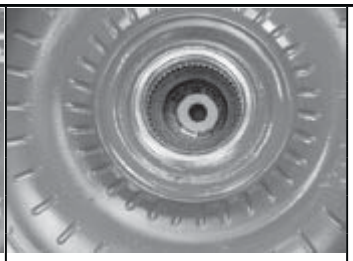
3 YEAR WARRANTY INDUSTRY BEST

* Recon by Transtar Torque Converter Limited Warranty

TSB#	Symptom	Solution	Part #
3	No Lock Up	Replace Front Stator Support Bushing	34036B 34036S
4	Converter Overheat, Delayed Reverse	Install New Wide Stator Bushing	44036B
5	Converter Overheat, No TCC When Hot	Replace TCC Solenoid	54425B
12	TCC Slip/Cycling, Code 1870	Install Valve Body Kit To Convert From EC3 To On/Off TC Clutch Engagement	A74165EA
13	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve (PWM Only)	A74507CEK
14	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (245mm or 298mm Converter, Non-Reluctor Type, 93-04)	A74529B S74529B
15	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Non-Reluctor Type, 99-04)	A74529C S74529C
16	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (298mm Converter, Reluctor Type, 04-Up)	A74529D S74529H
17	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Reluctor Type, 04-Up)	A74529E S74529L
18	TCC Slip/Cycling, Code 1870	Install TCC Valve To Convert From EC3 To On/Off TC Clutch Engagement (00-03)	A74741QC
25	Converter Slippage (Allison)	Replace "F" Trim Valve Sleeve (Pre-2004)	S121741C-2
27	Incorrect TCC Apply & Release, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Control Valve (Single Valve Pumps)	S134741C
28	Incorrect TCC Apply & Release, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Control & Enable Valves (Dual Valve Pumps)	S134741CA
29	Converter Overheat, Delayed/No Reverse	Replace TCC Regulator & Valve Assembly	S134741QK
30	Converter Overheat, TCC Valve Apply & Release Problems	Replace TCC Control Sleeve (Pre 2003)	S14741C-2
31	No TCC Apply, Soft/Slipping Apply	Replace TCC Regulated Apply Sleeve	S14741Q-2
40	Lock Up Chatter	Install Shift Correction Package	S24165E
41	TCC Slip Related Problems	Replace TCC Regulator Valve Sleeve (00-Up PWM Only)	S24741C-2
47	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Sure Cure Kit	S34174
48	Lock Up Shudder, Converter Overheat, Converter Apply & Release Problems	Replace TCC Regulator Valve & Sleeve Assembly	S34741C-2K
49	Lock Up Shudder, Converter Overheat, Converter Apply & Release Problems	Replace TCC Regulator Valve	S34741CK
80	Converter Overheat, Code 1870	Install Shift Correction Package (1993-97)	S74165E
81	TCC Slip/Cycling, 3-4 Clutch Failure, Falls Out Of Lock Up When Hot, No Lock Up, Converter Overheat	Install Shift Correction Package (1998-Up)	S74165EA
82	TCC Slip/Cycling, 3-4 Clutch Failure, Falls Out Of Lock Up When Hot, No Lock Up, Converter Overheat	Install Sure Cure Kit	S74174A
83	Converter Overheat, No TCC When Hot	Replace TCC Solenoid Snout (Up To 1996)	S74425N-2
84	Converter Overheat, No TCC When Hot	Replace TCC Solenoid Snout (1997-Up W/ Anti-Drainback Valve)	S74425S-2

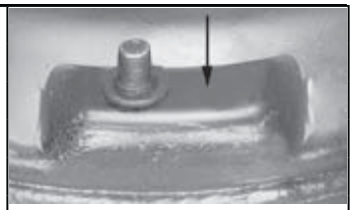
TSB#	Symptom	Solution	Part #
85	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly (Non-PWM Only)	S74507C-1
86	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly (PWM Only)	S74507CE-1
87	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Reluctor Type, 04-Up)	S74529L
88	TCC Slip/Cycling, 3-4 Clutch Failure	Replace Isolator Valve Sleeve	S74741Q-2
89	Converter Overheat, TCC Slip	Replace Regulator Valve Assembly (All Years & EC3 Units)	S74741QAK
90	Converter Overheat, TCC Slip	Replace Regulator Valve Assembly (Up To 1997 Non-EC3 Units)	S74741QK
105	Lock Up Shudder	Install Shift Correction Package	S84165
106	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Shift Correction Package	S84165G
107	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870, Reduced Cooler Flow	Install Sure Cure Kit	S84174
108	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870, Reduced Cooler Flow	Install Sure Cure Kit	S84174A
109	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Sure Cure Kit	S84174G
110	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace TCC Regulator & Isolator Valve Assembly (1991-92)	S84741CAK
111	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve (Oversized)	S84741CC-1
112	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve	S84741CD-1
113	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly	S84741CE-1
114	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace TCC Regulator & Isolator Valve Assembly (1993-99)	S84741CK
115	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace Isolator Valve Sleeve (1993-99)	S84741Q-1
116	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace Isolator Valve Sleeve (1993-99)	S84741QK
117	Repeat Converter Failure, TCC Slippage	Replace TCC Relief Valve	S84755A-1
137	Converter Apply & Release Problems	Replace TCC Regulator Valve Assembly	S94741QK
141	Converter Slippage, Weak Lock Up Apply (Allison)	Install Shift Kit® (5 Speed, 2001-05)	T121165
142	Converter Slippage, Weak Lock Up Apply (Allison)	Install Shift Kit® (6 Speed, 2006-Up)	T121167
148	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Kit®	T34165E
149	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Reprogramming Kit™ (HD Applications)	T34169E
161	TCC Slip/Cycling, 3-4 Clutch Failure, No Lock Up, Falls Out Of Lock Up When Hot, Converter Overheat	Install Shift Kit® (1993-08)	T74165E
164	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, No Lock Up, Converter Codes	Install Shift Kit®	T84167E
165	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Shift Kit®	T84167G

ATX
(Does Not Use Splined Insert)



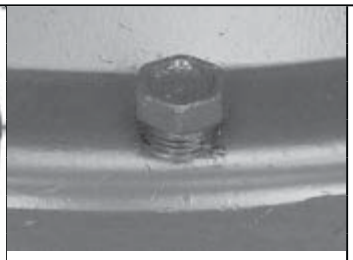
ATX (Insert Removed)
(Uses Splined Insert)

ATX Splined Insert
(Removed)



Boss

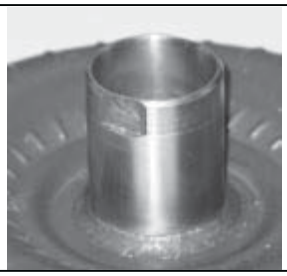
Cooling Shroud



Drain Plug

Hub - Bushing

Hub - Ears



Hub - Flats

Hub - Slotted

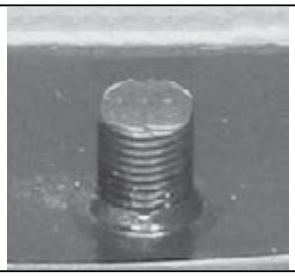
Impeller - Dimpled

Impeller - Smooth

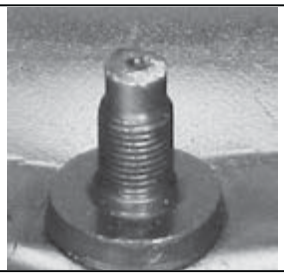
Stall - Low

Stall - Medium

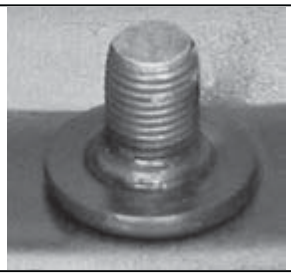
Stall - High



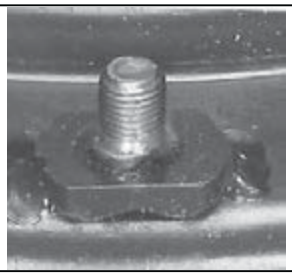
Billet Standard Stud
(Aftermarket Design)



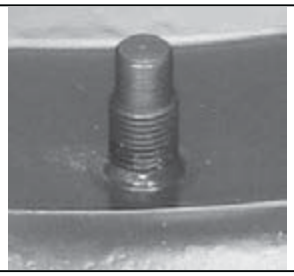
Extended Stud (OE)
(Diesel - Round Pad)



Standard Stud (OE)
(Gas - Round Pad)



Standard Stud (OE)
(Gas - Oval Pad)



Billet Extended Stud
(Aftermarket Design)
Length May Vary

FM68HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.25”)	**.825”**	**21**	**4 Studs, 3/8 x 24**

NOTES

Lock Up
2550-2950 Stall
1.44” to 1.55” Tall Pilot
Stepped .750” to .825”
15 Vane Stator

APPLICATION | CODES

1995-04 All 4.0L Including 05 Explorer

97HFB, 97HFC, AF, BAA, BAB, FEA, HFC, 1L2AC, 1LZA, 2L2BA, Some 4L2AC

TSB: **66, 67, 69, 70, 71, 72, 155, 174**

FM134HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.3”)	**.825”**	**21**	**4 Studs**

NOTES

Lock Up
High Stall
1.25” Tall Pilot

APPLICATION | CODES

1995-04 2.3L, 3.0L Some Rangers, 01-02 2.3L Mazda B3000

1L5AB, 1L5AC, 1L5AD, 2L5AA, 2L5BD, 4L5AD, YL2AB, YL2BA

TSB: **66, 67, 69, 70, 71, 72, 155, 174**

FM136HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.3”)	**.825”**	**21**	**4 Studs**

NOTES

Lock Up
2700-3200 Stall
1.44” to 1.55” Tall Pilot
Stepped .750” to .825”

APPLICATION | CODES

1995-04 2.3L, 2.9L, 3.0L Some Rangers

87BA, AA, AF, BA, BDA, BFA, CA, CFA, DA, EA, FA, FCA, FDA, HCA, 87BA, 97HCA

TSB: **66, 67, 69, 70, 71, 72, 155, 174**

FORD
5R55N, 5R55S, 5R55W

FM138

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (8.85”)	1.375”	21	4 Studs

NOTES

Lock Up
Med. Stall
Use T-0519A or T-0519AAC

APPLICATION | CODES

1999-03 w/ 3.0L (Including Jaguar X200, Lincoln LS6, Jag, Mountaineer, Explorer, Thunderbird)

LS8, XW4P-BA, XW4P-BD

TSB: **57, 58, 59, 60, 63, 64, 154, 169, 175**

FM138SC

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (8.85”)	1.375”	21	4 Studs

NOTES

Features Sonnax Clutch Conversion Plate
Med. Stall
Use T-0519A or T-0519AAC

APPLICATION | CODES

1999-03 w/ 3.0L (Including Jaguar X200, Lincoln LS6, Jag, Mountaineer, Explorer, Thunderbird)

LS8, XW4P-BA, XW4P-BD

TSB: **57, 58, 59, 60, 63, 64, 154, 169, 175**

FM138-8

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (8.85”)	1.375”	21	8 Studs

NOTES

Lock Up
Low Stall
Use T-0519A or T-0519AAC

APPLICATION | CODES

1999-03 w/ 3.9L (Including Lincoln LHS & LS8, Jag, Mountaineer, Explorer, Thunderbird)

XW4P-AD, 1W4P-AA, 3L2P-CA, 4L2P-BA, 4L2P-CA

TSB: **57, 58, 59, 60, 61, 62, 63, 64, 154, 169, 175**

FM138-8SC

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (8.85”)	1.375”	21	8 Studs

NOTES

Features Sonnax Clutch Conversion Plate
Low Stall
Use T-0519A or T-0519AAC

APPLICATION | CODES

1999-03 w/ 3.9L (Including Lincoln LHS & LS8, Jag, Mountaineer, Explorer, Thunderbird)

XW4P-AD, 1W4P-AA, 3L2P-CA, 4L2P-BA, 4L2P-CA

TSB: **57, 58, 59, 60, 61, 62, 63, 64, 154, 169, 175**

FM67HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.93" (9.25")	**.825"**	**21**	**4 Studs, 3/8 x 24**

NOTES

Lock Up (Do Not Interchange w/ FM68HD)
Med. Stall
1.74" to 1.75" Tall Pilot
Stepped .750" to .825"
10 Vane Stator

APPLICATION | CODES

2000-10 Explorer, Mustang 4.0L

7L2AA

TSB: **57, 58, 61, 62, 63, 64, 154**

FM68HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.25")	**.825"**	**21**	**4 Studs, 3/8 x 24**

NOTES

Lock Up (Do Not Interchange w/ FM67HD)
2550-2950 Stall
1.44" to 1.55" Tall Pilot
Stepped .750" to .825"
15 Vane Stator

APPLICATION | CODES

2000-10 Some 4.0L Including 05 Explorer

97HFB, 97HFC, AF, BAA, BAB, FEA, HFC, 1L2AC, 1LZA, 2L2BA, Some 4L2AC

TSB: **57, 58, 61, 62, 63, 64, 154**

FM4600

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.1" (8.875")	**.750"**	**21**	**4 Studs, 10mm x 1.0**

NOTES

Lock Up - 2 Sided Friction
Med. to Low Stall

APPLICATION | CODES

2005-07 Mustang 4.0L

4R3P, A, B

TSB: **57, 58, 61, 62, 63, 64, 154**

FM160L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	1.375"	31	6 Studs

NOTES
Multi Disc Lock Up
Low Stall (95k)

APPLICATION | CODES
2003-Up 6.0L Diesel, 6.8L Gas
6MM, WW9

TSB: 176

FM160L-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	1.375"	31	6 Studs

NOTES
Multi Disc Lock Up
Low Stall (95k)
Billet Cover

APPLICATION | CODES
2003-Up 6.0L Diesel, 6.8L Gas
6MM, WW9

TSB: 176

FM160M

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	1.375"	31	6 Studs

NOTES
Multi Disc Lock Up
Med. Stall (110k)

APPLICATION | CODES
2003-Up 5.4L Gas
6MM, WW9

TSB: 176

FM160M-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	1.375"	31	6 Studs

NOTES
Multi Disc Lock Up
Med. Stall (110k)
Billet Cover

APPLICATION | CODES
2003-Up 5.4L Gas
6MM, WW9

TSB: 176

FM1603

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	1.375"	31	8 Studs

NOTES
Multi Disc Lock Up
Low Stall (95k)

APPLICATION | CODES
2003-07 Superduty 6.0L, L07-10 6.4L Diesel
6MM, WW9

TSB: 176

FM1603-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	1.375"	31	8 Studs

NOTES
Multi Disc Lock Up
Low Stall (95k)
Billet Cover

APPLICATION | CODES
2003-10 Superduty 6.4L Diesel
6MM, WW9

TSB: 176

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FM1441

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.7” (8.8”)	**.825”**	**24**	**4 Studs**

NOTES

Carbon Woven
Low Stall

APPLICATION | CODES

2008-12 Escape, Edge, Explorer, Fusion 2.0L

9L8P-7902AA

NOTES

FM1241

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9.75")	**1.375"**	**27**	**3 Pads, 10mm x 1.5**

NOTES

Carbon Woven
Low Stall
18 Vane Stator

APPLICATION | CODES

2007-12 Edge, Explorer, Flex, Fusion 3.5L, 3.7L

7L7, 7L70651F0073, 7L70321F0390, 7L72651F0437, White Square & Purple Paint, FOMOCO

FM1242

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9.75")	**1.375"**	**27**	**3 Pads, 10mm x 1.5**

NOTES

Carbon Woven
Low Stall
24 Vane Stator

APPLICATION | CODES

2007-12 Edge, Explorer, Flex, Fusion 3.5L, 3.7L

9F8, White Square & Purple Paint

NOTES

FM9501

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.875" (11.375")	**1.375"**	**32**	**4 Studs, 10mm x 1.25**

NOTES
Captive Clutch

APPLICATION | CODES
2009-12 Expedition 5.4L 6R80
EGXA, 9L3P-AF

TSB: **185, 186, 187, 188**

FM9502

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.28" (11.4")	**1.375"**	**27**	**4 Stud 10mm x 1.0**

NOTES
Captive Clutch
Low Stall

APPLICATION | CODES
2005-10 Explorer & Sport Trac 4.6L, 2007-08 Expedition 5.4L
L904A, 5L2P-7902AF, 6L2P-7902AG

TSB: **185, 186, 187, 188**

NOTES

FM1261

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.4” (11.4”)	**1.375”**	**32**	**4 Studs, 10mm x 1.0**

NOTES
Captive Clutch
Low Stall

APPLICATION | CODES
2010-12 F250, F350 6.2L Gas
CC3P-7902AB, CC3Z-7902A

FM1262

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.4” (11.4”)	**1.375”**	**32**	**6 Studs, 10mm x 1.0**

NOTES
Captive Clutch
Low Stall

APPLICATION | CODES
2010-12 F250, F350 6.7L Diesel
CC3P-7902BB, CC3Z-7902B

NOTES

FM76HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.3”)	.825”	21	4 Studs

NOTES
Lock Up
Low Stall
1” Tall Pilot
Stepped .750” to .825”

APPLICATION | CODES
1987-89 Merkur Some 2.9L
97HJC, BE, GA

TSB: 65, 68, 156

FM66HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.3”)	.825”	21	4 Studs

NOTES
Lock Up
High Stall
1” Tall Pilot
Stepped .750” to .825”

APPLICATION | CODES
1987-89 Merkur Some 2.3L
CA, CE, DE

TSB: 65, 68, 156

FM134HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.3”)	.825”	21	4 Studs

NOTES
Lock Up
High Stall
1.25” Tall Pilot

APPLICATION | CODES
1996-04 2.3L, 3.0L Some Rangers, 01-02 2.3L Mazda B3000
1L5AB, 1L5AC, 1L5AD, 2L5AA, 2L5BD, 4L5AD, YL2AB, YL2BA

TSB: 65, 68, 156

FM68HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.25”)	.825”	21	4 Studs, 3/8 x 24

NOTES
Lock Up
2550-2950 Stall
1.44” to 1.55” Tall Pilot
Stepped .750” to .825”
15 Vane Stator

APPLICATION | CODES
1990-Up Some 4.0L Including 05 Explorer
97HFB, 97HFC, AF, BAA, BAB, FEA, HFC, 1L2AC, 1LZA, 2L2BA, Some 4L2AC

TSB: 65, 68, 156

FM136HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.3”)	.825”	21	4 Studs

NOTES
Lock Up
2700-3200 Stall
1.44” to 1.55” Tall Pilot
Stepped .750” to .825”

APPLICATION | CODES
1985-04 2.3L, 2.9L, 3.0L Some Rangers
87BA, AA, AF, BA, BDA, BFA, CA, CFA, DA, EA, FA, FCA, FDA, HCA, 87BA, 97HCA

TSB: 65, 68, 156

FM55

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75” (11.44”)	**1.375”**	**35**	**4 Studs**

NOTES
23 Spline Direct Drive
1600-1800 Stall

APPLICATION | CODES
1980-93 w/ 351, 4.9L Engines
7A, 14A, 15A

FM55B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75” (11.44”)	**1.375”**	**35**	**4 Studs, 3/8 x 24**

NOTES
23 Spline Direct Drive
1875-2175 Stall

APPLICATION | CODES
1980-93 w/ 302, 3.8L, 4.6L, 5.0L Engines
11A, 13A, 18A, 19A, 30A, 36A, 37A, 39A, 44A, 56A

FM55BHP-12

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75” (11.44”)	**1.375”**	**35**	**4 Studs, 3/8 x 24**

NOTES
23 Spline Direct Drive
1900-2200 Stall

APPLICATION | CODES
High Performance

FM55BHP-11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75” (11.44”)	**1.375”**	**35**	**4 Studs**

NOTES
23 Spline Direct Drive
2400-2600 Stall

APPLICATION | CODES
High Performance

FORD
AODE, 4R70, 4R75 SERIES

FM70

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (10.6")	**1.375"**	**31**	**4 Studs**

NOTES
Lock Up
2100-2500 Stall

APPLICATION | CODES
1993-09 Mark VIII, Mustang 4.6L, Police 4.6L
52A, 62A, 70A, 74A, 81A

TSB: **95, 96, 97, 98, 99, 100, 101, 163**

FM70HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (10.6")	**1.375"**	**31**	**4 Studs**

NOTES
Lock Up
2100-2500 Stall
Furnace Brazed
Stock Thrust Bearing

APPLICATION | CODES
1993-09 Mark VIII, Mustang 4.6L, Police 4.6L
52A, 62A, 70A, 74A, 81A

TSB: **95, 96, 97, 98, 99, 100, 101, 163**

FM69L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	**1.375"**	**31**	**4 Studs**

NOTES
Lock Up
1600-1800 Stall

APPLICATION | CODES
3.8L, 4.6L, 5.4L
71A, 84A, 99A

TSB: **95, 96, 97, 98, 99, 100, 101, 163**

FM69LHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	**1.375"**	**31**	**4 Studs**

NOTES
Lock Up
1600-1800 Stall
Furnace Brazed
Stock Thrust Bearing

APPLICATION | CODES
3.8L, 4.6L, 5.4L
71A, 84A, 99A

TSB: **95, 96, 97, 98, 99, 100, 101, 163**

FM69

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	**1.375"**	**31**	**4 Studs**

NOTES
Lock Up
1900-2200 Stall

APPLICATION | CODES
3.8L, 4.6L, 5.0L, 5.4L
51A, 61A, 65A, 69A

TSB: **95, 96, 97, 98, 99, 100, 101, 163**

FM69C

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	**1.375"**	**31**	**4 Studs**

NOTES
Lock Up
1900-2200 Stall

APPLICATION | CODES
4.2L Police
58A, 64A, 72A, 73A, 75A, 76A, 77A, 80A, 82A, 89A, 98A

TSB: **95, 96, 97, 98, 99, 100, 101, 163**

FM69H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.375")	**1.375"**	**31**	**4 Studs**

NOTES
Lock Up
2000-2300 Stall

APPLICATION | CODES
1993-95 3.8L Supercharged, 05-Up F150 5.4L
59A, 63A, 96A

TSB: **95, 96, 97, 98, 99, 100, 101, 163**

3.0L AXOD, AXODE, AX4S, AX4N (23 Splines)			
Part #:	**Stamped:**	**Years:**	**Application:**
FM61	01, 34	1986-90	3.0L Taurus, Sable
FM61	06, 53	1991	3.0L Taurus, Sable
FM61R	10, 37	1992-93	3.0L Taurus, Sable
FM61R	24, 37	1994	3.0L Taurus, Sable

3.2L AXOD, AXODE, AX4S, AX4N (23 Splines)			
Part #:	**Stamped:**	**Years:**	**Application:**
FM60		1993-95	3.2L SHO

3.8L AXOD, AXODE, AX4S, AX4N (23 Splines)			
Part #:	**Stamped:**	**Years:**	**Application:**
FM61C	03, 46	1987	3.8L Taurus, Sable, Continental
FM61C	04, 46	1988	3.8L Taurus, Sable, Continental
FM61C	12, 47	1989-90	3.8L Taurus, Sable, Continental
FM61C	07, 35	1991	3.8L Taurus, Sable, Police
FM61M	08, 11	1991	3.8L Continental
FM61R	14, 43	1992-93	3.8L Continental
FM61M	15, 38	1992-93	3.8L Taurus, Sable
FM61	17, 40	1992-93	3.8L Police
FM61M	25, 38	1994	3.8L Taurus, Sable
FM61R	26, 43	1994	3.8L Continental
FM61	27, 40	1994	3.8L Police

AXOD, AXODE, AX4S, AX4N, 4F50N (25 Splines)				
Part #:	**Stamped:**	**Years:**	**Application:**	**Tabs on Turbine Hub**
FM71	19, 32, 45	1994-96	3.0L AX4S	2 or 3 Tabs & Single Friction Clutch
FM71	20	1994-96	3.0L AX4N	2 or 3 Tabs & Single Friction Clutch
FM59	28, 42	1994-96	3.2L SHO (Reduced Primary)	2 or 3 Tabs & Single Friction Clutch
FM59	28, 42	1994-96	3.4L SHO (Reduced Primary)	2 or 3 Tabs & Single Friction Clutch
FM71C	29, 39	1994-96	3.8L AX4S	2 or 3 Tabs & Single Friction Clutch
FM71	30, 31, 44	1994-96	3.8L AX4N	2 or 3 Tabs & Single Friction Clutch
FM71C	29, 39	1994-96	4.6L AX4N	2 or 3 Tabs & Single Friction Clutch
FM71	FLA8	1997-Up	3.0L (Medium Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM71H	73, F3RT	1997-Up	3.0L (High Stall Fin Angle)	2 or 3 Tabs & Single Friction Clutch
FM71H	69	1997-Up	3.0L (High Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM59A	n/a	1997-Up	3.4L SHO (Reduced Primary)	4 Tabs & Multi Friction Clutch
FM72C	F5OP	1997-Up	3.8L (Low Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM71H	73, F3RT	1997-Up	3.8L (High Stall Fin Angle)	2 or 3 Tabs & Single Friction Clutch
FM71H	69	1997-Up	3.8L (High Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM72C	F5OP	1997-Up	4.6L (Low Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM90	3F1P	2004-06	3.0L Taurus, Sable	Multi Friction Clutch
FM90LS	3F2P, 5F2P	2004-06	4.2L Freestar, Monterey	Multi Friction Clutch

FM61C

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (8.875")	.825"	23	4 Studs

NOTES
Non PWM
1750-2100 Stall
1 Lock Up Solenoid
O-Ring

APPLICATION | CODES
1986-E91 Taurus, Sable, Continental (3.8L), 1991 Police (3.8L)

03, 04, 07, 12, 35, 46, 47

TSB: 19, 118, 119, 121, 122, 126, 127, 166, 173

FM61

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (8.875")	.825"	23	4 Studs

NOTES
Non PWM
2200-2400 Stall
2 Lock Up Solenoid
O-Ring

APPLICATION | CODES
1986-E91 Taurus, Sable (3.0L), 1992-94 Police (3.8L)

01, 06, 17, 27, 34, 40, 53

TSB: 19, 118, 119, 121, 122, 126, 127, 166, 173

FM61M

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (8.875")	.825"	23	4 Studs

NOTES
PWM
1800-2100 Stall
2 Lock Up Solenoid
O-Rings

APPLICATION | CODES
L91-94 Taurus, Sable (3.8L), 1991 Continental (3.8L)

08, 11, 15, 25, 38

TSB: 19, 118, 119, 121, 122, 126, 127, 166, 173

FM61R

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (8.875")	.825"	23	4 Studs

NOTES
PWM
2200-2400 Stall
2 Lock Up Solenoid
O-Rings

APPLICATION | CODES
L91-94 Taurus, Sable (3.0L), 1992-94 Continental (3.8L)

10, 14, 24, 26, 37, 43

TSB: 19, 118, 119, 121, 122, 126, 127, 166, 173

FM60

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9")	.825"	23	4 Studs

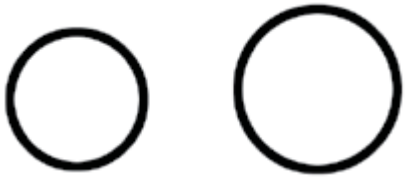
NOTES
Lock Up
2875-3300 Stall
Reduced Primary

APPLICATION | CODES
1993-95 SHO (3.2L)

18, 36

To ID 23 & 25 Spline Shafts

O-Rings



23 Spline, 1.010" (# 86380) 25 Spline, 1.065" (# 86380H)

AXODE 23 Spline Shaft (# 86673A)

AXODE 25 Spline Shaft (#86673B)

FM71C

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.93" (8.875")	**.825"**	**25**	**4 Studs**

NOTES
Lock Up
1800-2100 Stall

APPLICATION | CODES
1995-97 Lincoln Continental 4.6L
49, 1F3P-AA

TSB: **19, 20, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 166, 167, 173**

FM72C

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.93" (8.875")	**.825"**	**25**	**4 Studs**

NOTES
Lock Up
1800-2100 Stall

APPLICATION | CODES
1998-02 Lincoln Continental 4.6L
58, 71, F5OP-AA, F8OP-AB

TSB: **19, 20, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 166, 167, 173**

FM71

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.93" (8.875")	**.825"**	**25**	**4 Studs**

NOTES
Lock Up
1900-2200 Stall
Replaces FM72

APPLICATION | CODES
L94-Up 3.0L, 3.8L Taurus, Sable, Continental, Windstar
19, 20, 30, 31, 32, 44, 45, 74, 75, 79, F4DP-AA/BA/DA/DB, 1F2P-AA/AB, F68P-AA, F88P-BA

TSB: **19, 20, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 166, 167, 173**

FM71H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.93" (8.875")	**.825"**	**25**	**4 Studs**

NOTES
Lock Up
2200-2400 Stall
Replaces FM72H

APPLICATION | CODES
L94-Up 3.0L, 3.8L Taurus, Sable, Continental, Windstar
69, 73, 96, 540, F3RT, 1F1P-AA/AB/AC, 1F3P-AA, F88P-AA/AB, F8DP-AB/AC

TSB: **19, 20, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 166, 167, 173**

FM59

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.93" (8.875")	**.825"**	**25**	**4 Studs**

NOTES
Lock Up
2875-3300 Stall
Reduced Primary

APPLICATION | CODES
1993-95 Taurus SHO 3.2L
18, 28, 42, SHO, F3DP-BA, F4DP-EA, F6DP-AA

TSB: **19, 20, 118, 119, 120, 123, 124, 125, 127, 166, 167, 173**

FM59A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9")	**.825"**	**25**	**4 Studs**

NOTES
Lock Up
2875-3300 Stall
Reduced Primary

APPLICATION | CODES
1996-99 Taurus SHO 3.4L
51, 55, 64, SHO, F6DP-AA, F8DP-BB

TSB: **19, 20, 118, 119, 120, 123, 124, 125, 127, 166, 167, 173**

FM90

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.85")	**.825"**	**25**	**4 Studs**

NOTES
Lock Up
High Stall (200k)
Modulating Clutch

APPLICATION | CODES
2004-07 Taurus, Sable 3.0L
3F1P, 3F1P-AF

TSB: **20, 120, 123, 124, 125, 126, 127, 167**

FM90LS

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.85")	**.825"**	**25**	**4 Studs**

NOTES
Lock Up
Low Stall (165k)
Modulating Clutch

APPLICATION | CODES
2004-07 Freestar, Monterey 3.9L & 4.2L
3F2P, 3F2P-AG, 3F2P-BF, 5F2P, 5F2P-AD, 5F2P-AG, 5F2P-BC, Green Dot

TSB: **20, 120, 123, 124, 125, 126, 127, 167**

AXODE, AX4S, AX4N (L94-Up) (25 Splines) (Lock-Up)

To ID # of Tabs on the Turbine Shaft

Two & Three Tabs interchange & are Single Friction clutches,Four Tabs are Multi Friction clutches. **Our replacement Turbine Hub does not have tabs!**

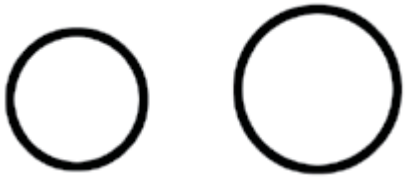
Two Tabs

Three Tabs

Four Tabs

To ID 23 & 25 Spline Shafts

O-Rings



23 Spline, 1.010" (# 86380) 25 Spline, 1.065" (# 86380H)

AXODE 23 Spline Shaft (# 86673A)

AXODE 25 Spline Shaft (#86673B)

FORD
C-4 (1964-69)

FM101

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9.3")	**1.375"**	**24**	**4 Studs**

NOTES
Non Lock Up
1600-1800 Stall
132T Ring Gear

APPLICATION | CODES
1964-69 170, 200 6 Cyl
R, X, Z,

FM18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10.44")	**1.375"**	**24**	**4 Studs**

NOTES
Non Lock Up
1950-2150 Stall
2 Drain Plugs

APPLICATION | CODES
1964-69 260, 289, 302
AB, N

FM18HP-11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10.44")	**1.375"**	**24**	**4 Studs**

NOTES
Non Lock Up
2400-2600 Stall

APPLICATION | CODES
1964-69 High Performance

FM18HP-10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (10.44")	**1.375"**	**24**	**4 Studs**

NOTES
Non Lock Up
3000-3400 Stall

APPLICATION | CODES
1964-69 High Performance

FM17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10.44")	**1.572"**	**24**	**4 Studs**

NOTES
Non Lock Up
1800-2000 Stall
2 Drain Plugs

APPLICATION | CODES
1964-69 233 6 Cyl
P

FM102

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (11.36")	**1.375"**	**24**	**4 Studs**

NOTES
Non Lock Up
1300-1500 Stall

APPLICATION | CODES
1964-69 All 12" 6 & 8 Cyl
AC, V

FM117

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9.3”)	.825”	26	4 Studs

NOTES
Non Lock Up
2400-2700 Stall
.826” Tall Pilot
Stepped .750” to .825”

APPLICATION | CODES
1973-79 140 4 Cyl, 170 6 Cyl

FM118

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9.3”)	.750”	26	4 Studs

NOTES
Non Lock Up
2200-2500 Stall
1.22” Tall Pilot

APPLICATION | CODES
1974-84 6 Cyl. (Some)

FM113

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9.3”)	.825”	26	4 Studs

NOTES
Non Lock Up
High Stall
.980” Tall Pilot

APPLICATION | CODES
1970-83 122, 140 Cyl, 2.3L Ranger
BU

FM49

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9.3”)	1.375”	26	4 Studs

NOTES
Non Lock Up
2125-2325 Stall
.875” Tall Pilot

APPLICATION | CODES
1981-83 3.3L
E1SP-7976-AA

FM120

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9.3”)	1.375”	26	4 Studs

NOTES
Non Lock Up
2125-2325 Stall
1” Tall Pilot

APPLICATION | CODES
1975-81 302 Mustang, Capri
CP, DS

FM111

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25” (9.3”)	1.375”	26	4 Studs

NOTES
Non Lock Up
1600-1800 Stall
132T Ring Gear

APPLICATION | CODES
1970-81 170, 200 6 Cyl
BT

FM18A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10.44”)	**1.375”**	**26**	**4 Studs**

NOTES
Non Lock Up
1950-2150 Stall

APPLICATION | CODES
1970-Up
BP

FM18AHP-11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10.44”)	**1.375”**	**26**	**4 Studs**

NOTES
Non Lock Up
2400-2600 Stall

APPLICATION | CODES
1970-Up High Performance

FM18AHP-10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (10.44”)	**1.375”**	**26**	**4 Studs**

NOTES
Non Lock Up
3000-3400 Stall

APPLICATION | CODES
1970-Up High Performance

FM122

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10.44”)	**1.375”**	**26**	**4 Studs**

NOTES
Non Lock Up
1750-1950 Stall
Extended Pilot

APPLICATION | CODES
1970-Up
CM

FM112

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.36”)	**1.375”**	**26**	**4 Studs**

NOTES
Non Lock Up
1300-1500 Stall
Can Use FM124

APPLICATION | CODES
1970-Up
BM, BN, BR, DB, DC

FM124

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.36”)	**1.375”**	**26**	**4 Studs**

NOTES
Non Lock Up
1300-1500 Stall
Can Use FM112

APPLICATION | CODES
1970-Up
DB, DC, DD, DF, DH, DX, FB

CP6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.36”)	**1.375”**	**26**	**4 Studs**

NOTES
Non Lock Up
1300-1500 Stall
Extended Pilot .907” Tall

APPLICATION | CODES
1970-Up

FM58L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.36")	**12.75"**	**26**	**4 Studs**

NOTES
Clutch Omitted
Low Stall

APPLICATION | CODES
1982-86 5.0L, Some 3.8L
FS, FY, FX, GB

FM58

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.36")	**12.75"**	**26**	**4 Studs**

NOTES
Clutch Omitted
High Stall

APPLICATION | CODES
1982-86 3.3L, 4.2L, 4.9L, Some 3.8L
FS, FY, FX, GB

FM117

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.3")	**.825"**	**26**	**4 Studs**

NOTES
Non Lock Up
2400-2700 Stall
.826" Tall Pilot
Stepped .750" to .825"

APPLICATION | CODES
1982-86

FM113

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.3")	**.825"**	**26**	**4 Studs**

NOTES
Non Lock Up
High Stall
.980" Tall Pilot

APPLICATION | CODES
1982-86
BU

FM49

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.3")	**1.375"**	**26**	**4 Studs**

NOTES
Non Lock Up
2125-2325 Stall
.875" Tall Pilot

APPLICATION | CODES
1982-86

CP6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (11.36")	**1.375"**	**26**	**4 Studs**

NOTES
Non Lock Up
1300-1500 Stall
Extended Pilot

APPLICATION | CODES
1982-86

TRANSTAR INDUSTRIES, INC.®

Ford AODE / 4R70W / 4R75W / E
1992-Up

RECON™

All Feature:

Brazed or welded fins and Kevlar clutch material

Application:

FM69

- Medium/High stall (1900-2200)
- Standard duty damper and piston

FM69C

- Medium/High stall (1900-2200)
- Upgraded larger HD damper and piston

FM69H

- High stall (2200-2400)
- Standard duty damper and piston

FM69L

- Low stall (1600-1800)
- Upgraded larger HD damper and piston

Common Failures:

Friction, damper, or piston failure

Solution:

Replacement with upgraded components

Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*

3 YEAR WARRANTY INDUSTRY BEST

* Recon by Transtar Torque Converter Limited Warranty

FM114

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	**1.375"**	**31**	**4 Studs**

NOTES
Non Lock Up
2750-2950 Stall

APPLICATION | CODES
1972-Up

FM115

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	**1.375"**	**31**	**8 Studs**

NOTES
Non Lock Up
2750-2950 Stall
Reinforced Fins
Heavy Duty Bearing

APPLICATION | CODES
1972-Up

FM104

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.44")	**1.848"**	**31**	**4 Studs**

NOTES
Non Lock Up
1600-1800 Stall
4 Bosses, Wide Pilot

APPLICATION | CODES
1968-71 (1.848" Wide & 1.200" Tall Pilot)

FM105

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.44)	**1.848"**	**31**	**4 Studs**

NOTES
Non Lock Up
1600-1800 Stall
8 Bosses, Wide Pilot

APPLICATION | CODES
1968-71 (1.848" Wide & .960" Tall Pilot)

FM128

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.44")	**1.375"**	**31**	**4 Studs**

NOTES
Non Lock Up
1750-2000 Stall

APPLICATION | CODES
1972-Up Smooth or Ribbed Pilot

FM128HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.44")	**1.375"**	**31**	**4 Studs**

NOTES
Non Lock Up
1750-2000 Stall
Reinforced Fins
Heavy Duty Bearing

APPLICATION | CODES
1972-Up Smooth or Ribbed Pilot

FM126DS

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75” (11.44”)	**1.375”**	**31**	**4 Studs**

NOTES
Non Lock Up
1750-2000 Stall
Reinforced Fins
Heavy Duty Bearing

APPLICATION | CODES
1972-Up 6.9L Diesel

FM127

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75” (11.44”)	**1.375”**	**31**	**4 Studs**

NOTES
Non Lock Up
1800-2200 Stall

APPLICATION | CODES
1972-Up

FM127HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75” (11.44”)	**1.375”**	**31**	**4 Studs**

NOTES
Non Lock Up
1800-2200 Stall
Reinforced Fins
Heavy Duty Bearing

APPLICATION | CODES
1972-Up

FM127HP-12

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75” (11.44”)	**1.375”**	**31**	**4 Studs**

NOTES
Non Lock Up
1800-2200 Stall

APPLICATION | CODES
1972-Up High Performance

FM127HP-11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75” (11.44”)	**1.375”**	**31**	**4 Studs**

NOTES
Non Lock Up
2400-2600 Stall

APPLICATION | CODES
1972-Up High Performance

FM127HP-10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (10.44”)	**1.375”**	**31**	**4 Studs**

NOTES
Non Lock Up
3000-3400 Stall

APPLICATION | CODES
1972-Up High Performance

FM80

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.55" (8.85")	**.825"**	**30**	**4 Studs**

NOTES
Lock Up
2315-2700 Stall

APPLICATION | CODES
1994-00 Contour 2.0L, Mystique 2.0L, Probe 2.0L, Cougar 2.0L, MX6 2.0L, 626 2.0L

A Stamped on Pilot, F3RP, F5RP, F3RZ-7902-ARM

TSB: **138, 139, 140**

FM89

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.825" (8.85")	**.825"**	**30**	**4 Studs**

NOTES
Lock Up
2325-2710 Stall
3 Pilot Side Weld Spots

APPLICATION | CODES
2001-08 Escape, Tribute, Cougar, Mariner

H Stamped on Pilot

TSB: **138, 139, 140**

FM89L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.825" (8.85")	**.825"**	**30**	**4 Studs**

NOTES
Lock Up
2050-2460 Stall
4 Pilot Side Weld Spots

APPLICATION | CODES
2001-08 Escape, Tribute, Cougar, Mariner

H Stamped on Pilot, 5L8P

TSB: **138, 139, 140**

FM75

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.85")	**.825"**	**30**	**4 Studs**

NOTES
Lock Up
High Stall

APPLICATION | CODES
1995-00 Contour 2.5L, Mystique 2.5L, 1999 Cougar 2.5L

C Stamped on Pilot, F4RZ-7902-ARM

TSB: **138, 139, 140**

FM3301

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9.25")	**1.375"**	**27**	**4 Studs**

NOTES

Lock Up
Low Stall
One Drive Tab on Hub

APPLICATION | CODES

1995-07 Five Hundred, Freestyle, Montego 3.0L

B83, P82

TSB: **2**

NOTES

TRANSTAR INDUSTRIES, INC.®

Ford E40D / 4R100

RECON™

FM64 Features:

- 100% piston and damper replacement with upgraded high capacity assembly from LuK
- Brazed/reinforced fins

Application:

Ford E40D / 4R100

- Ford F150, high stall, 1992-1998
- 4.9 / 5.0 / 5.4 / 5.8L engines
- Can be used in both PWM and non-PWM applications

Common Failures:

Damper and piston fail

Solution:

Replacement of damper and piston assembly

3 YEAR WARRANTY INDUSTRY BEST

Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*

* Recon by Transtar Torque Converter Limited Warranty

E4OD, 4R100 Chart								
Part #	**Ref #**	**Application**	**Studs**	**Stall**	**Cover**	**Turbine Hub**	**Stator Caps**	**Damper**
FM64L	FM-91LS		4	Low	OEM	Stock	Stock	Single Friction Clutch
FM64LX	FM-92	Upgrade	4	Low	Billet	Steel	Bearing Adapter	Single Friction Clutch
FM64D	FM-91D		4	Low	OEM	Stock	Stock	Single Friction Clutch
FM64DX-S3	FM-92HD-S3	Upgrade	4	Extra Low	Billet	w/ Bearing	Bearing Adapter	Multi Friction Clutch
FM64	FM-91HS		4	High	OEM	Stock	Stock	Single Friction Clutch
FM64X	FM-91HSHD	Upgrade	4	High	Billet	Steel	Bearing Adapter	Single Friction Clutch
FM64Q	FM-93G		6	Low	OEM GROB	Steel	Bearing Adapter	Single Friction Clutch
FM64QX	FM-93	Upgrade	6	Low	Billet	Steel	Bearing Adapter	Single Friction Clutch
FM64R	FM-94		6	Low	OEM GROB	w/ Bearing	Bearing Adapter	Multi Friction Clutch
FM64RX-S3	FM-94HD-S3	Upgrade	6	Extra Low	Billet	w/ Bearing	Bearing Adapter	Multi Friction Clutch

FM64DX-S3 & FM64RX-S3

Multi Friction Clutch w/ Billet Cover

FM64DX-S3 & FM64RX-S3

Modified Extra Low Stall E4OD, 4R100 Converters

Only the lowest stall impellers are used to manufacture these converters. The impellers used are even lower stall than the typical low stall 'straight rib' impellers; only impellers that have an extra 'low stall' negative rib angle are used in building these converters. All impellers are manually or furnace brazed for added strength and efficiency.

In the stator, the only roller clutch assembly used is the .980" tall version. A new 'high capacity' Torrington bearing replaces the OE plastic cap as the thrust surface.

Turbines are manually or furnace brazed. The turbine hubs are secured with solid (not hollow) rivets and manually TIG welded to the turbine shell. This helps prevent stress fractures found in high torque and heavy load applications.

Only the latest version (3rd Design) of the LuK multiple friction clutch assemblies are used. This latest design has solved the problems such as noise complaints and not allowing the full release or apply of the converter clutch.

The bearing between the turbine hub and front cover is also the 'latest design'. Replaced 100% of the time, this bearing has a 'shoulder' that keeps the race properly positioned in all phases of converter operation.

The Billet front cover is specially designed to mate to the LuK "3rd design" Multi Friction Clutch assembly. Configured with either four or six studs, this Billet front cover can handle the abuse of modified high torque and/or heavily loaded applications. The studs bases are threaded, counter sunk and then pinned into position, thus eliminating the studs "pulling out" during installation.

FORD
E4OD, 4R100 (4 STUD)

FM64L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	**1.375"**	**31**	**4 Studs**

NOTES
Single Disc
Low Stall (110k)

APPLICATION | CODES
1989-98 Gas 7.5L, 6.8L V10 & Some 4.9L
L, N, R, W

TSB: **10, 50, 51, 52, 53, 54, 55, 150, 151**

FM64D

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	**1.375"**	**31**	**4 Extended Studs**

NOTES
Single Disc
Low Stall (110k)

APPLICATION | CODES
1989-98 Diesel 6.9L, 7.3L (E4OD Only)

TSB: **10, 50, 51, 52, 53, 54, 55, 150, 151**

FM64LX

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	**1.375"**	**31**	**4 Studs**

NOTES
Single Disc
Low Stall (110k)
Billet Cover
Heavy Duty Bearings

APPLICATION | CODES
1989-98 Upgrade for the FM64D & FM64L

TSB: **10, 50, 51, 52, 53, 54, 55, 150, 151**

FM64DX-S3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	**1.375"**	**31**	**4 Studs**

NOTES
Multi Disc
Modified Low Stall (95k)
Billet Cover
Heavy Duty Bearings

APPLICATION | CODES
1989-98 Diesel 7.3L

TSB: **10, 50, 51, 52, 53, 54, 55, 150, 151**

FM64

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	**1.375"**	**31**	**4 Studs**

NOTES
Single Disc
High Stall (140k)

APPLICATION | CODES
1989-98 Gas 5.0L, 5.4L, 5.8L & Some 4.9L
A, E, F, H, M, O, U, AA, SS

TSB: **10, 50, 51, 52, 53, 54, 55, 150, 151**

FM64X

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	**1.375"**	**31**	**4 Studs**

NOTES
Single Disc
High Stall (140k)
Billet Cover
Heavy Duty Bearings

APPLICATION | CODES
1989-98 Upgrade for the FM64

TSB: **10, 50, 51, 52, 53, 54, 55, 150, 151**

FM64Q

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	1.375"	31	6 Studs

NOTES
Single Disc
Low Stall (110k)
Used Cover

APPLICATION | CODES
1998-Up Gas 6.8L V10, V8, 7.5L, 4.9L
AB, EE, GG, JJ, TT

TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151

FM64QX

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	1.375"	31	6 Studs

NOTES
Single Disc
Low Stall (110k)
Billet Cover
Heavy Duty Bearings

APPLICATION | CODES
1998-Up Upgrade for the FM64Q

TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151

FM64R

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	1.375"	31	6 Studs

NOTES
Multi Disc
Low Stall (110k)
New GROB Cover

APPLICATION | CODES
1998-Up 6.8L & 7.5L Gas, 7.3L Diesel
AC, AD, AF, WW, XX, ZZ

TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151

FM64RX-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	1.375"	31	6 Studs

NOTES
Multi Disc
Low Stall (110k)
Billet Cover
Heavy Duty Bearings

APPLICATION | CODES
1998-Up Upgrade for the FM64R

TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151

FM64RX-S3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (11.425")	1.375"	31	6 Studs

NOTES
Multi Disc
Modified Low Stall (95k)
Billet Cover
Heavy Duty Bearings

APPLICATION | CODES
1998-Up 7.5L Gas, 7.3L Diesel

TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151

FORD
FMX & 12” SMALL, MEDIUM, LARGE CASE

FM35

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10.42”)	**1.375”**	**29**	**4 Studs**

NOTES
Non Lock Up
Extended Pilot

APPLICATION | CODES
1968-81 FMX
CC

FM38

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.45”)	**1.375”**	**29**	**4 Studs**

NOTES
Non Lock Up
Can Use FM48

APPLICATION | CODES
1968-81 FMX
49, 54, 56

FM48

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.45”)	**1.375”**	**29**	**4 Studs**

NOTES
Non Lock Up
Can Use FM38

APPLICATION | CODES
1968-81 FMX
49, 54, 56, 84, 85

FM39

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.45”)	**1.848”**	**29**	**4 Studs**

NOTES
Non Lock Up
Short, Fat Pilot

APPLICATION | CODES
1968-81 FMX
57

FM24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12”	**1.375”**	**29**	**4 Studs**

NOTES
Non Lock Up
Ears on Hub

APPLICATION | CODES
1965-72 240, 289, 302 (Small, Medium Case)

FM1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12”	**1.572”**	**29**	**4 Studs**

NOTES
Non Lock Up
Ears on Hub

APPLICATION | CODES
1958-62 272, 292 V8 (Small, Medium Case)

FM2A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12”	1.572”	17	4 Studs

NOTES
Non Lock Up
Ears on Hub

APPLICATION | CODES
1965-72 240, 289, 302 (Small, Medium Case)

FM2

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12”	1.850”	29	4 Studs

NOTES
Non Lock Up
Ears on Hub
Thin 3/32” Stud Base
Washer
Four Wide Bosses

APPLICATION | CODES
1958-62 332, 352, 361 (Small, Medium Case)
23, 30

FM2D

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12”	1.850”	29	4 Studs

NOTES
Non Lock Up
Ears on Hub
Thin 3/32” Stud Base
Washer
Four Narrow Bosses

APPLICATION | CODES
1965-72 352, 361, 390 (Small, Medium Case)

FM2X

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12”	1.850”	29	4 Studs

NOTES
Non Lock Up
Ears on Hub
Thick 3/16” Stud Base
Washer
Four Narrow Bosses

APPLICATION | CODES
1963-67 352, 383, 390 (Small, Medium Case)
19, 20, 24

FM3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12”	1.850”	31	4 Studs

NOTES
Non Lock Up
Ears on Hub
Thin 3/32” Stud Base
Washer

APPLICATION | CODES
1958-61 410, 430 (Large Case)
PBB, PCA

FM3X

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12”	1.850”	31	4 Studs

NOTES
Non Lock Up
Ears on Hub
Thick 3/16” Stud Base
Washer

APPLICATION | CODES
1962-65 Lincoln (Large Case)
PCA-D, PCA-E

FORD
TF-80SC, TF-81SC (AF21, AF40)

FM3901

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.375” (9.25”)	**1.375”**	**23**	**3 Studs, 10mm x 1.0**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2006-09 Fusion, Milan, Zephyr, Mazda 6 3.0L
47A010, 05Y, 18686

TSB: **56, 153**

FM3902

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25” (8.875”)	**.825”**	**23**	**4 Studs, 10mm x 1.0**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2005-07 Five Hundred, Montego 3.0L
71A040, 5G13-7902AA, 5G1Z-7902AA

TSB: **56, 153**

VO3901

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.565” (9.565”)	**.824”**	**23**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Low Stall

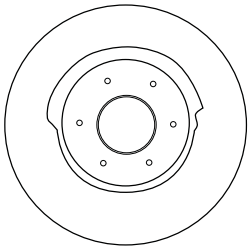
APPLICATION | CODES
2005-11 Volvo XC90 4.4L
70A020

TSB: **56**

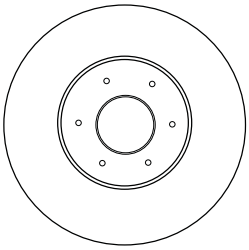
TSB#	Symptom	Solution	Part #
2	TCC Apply Problems	Replace Turbine Shaft O-Ring 5F9Z-7H497-EA	33002LA 33004LA 33006LA
10	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Valve Body Kit	A36165E
19	Delayed Engagement, Converter Overheat, Converter Slip Codes	Install Valve Body Kit	A86165E
20	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Valve Body Kit	A86165H
50	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Correction Package	S36165E
51	Soft Shifts, Poor Line Rise, Delayed Reverse	Install Sure Cure Kit (E40D)	S36174
52	Lock Up Shudder, Converter Overheat, Engine Stumble/Stall On Reverse Engagement, TCC Cycling	Install Sure Cure Kit	S36174A
53	Lock Up Shudder, TCC Cycling	Replace TCC Control Valve Assembly (PWM 4R100 Apps Only)	S36507CK
54	Converter Overheat, Engine Stumble/Stall On Reverse Engagement	Replace Line To Lube Pressure Regulator Valve	S36507P-1
55	Converter Overheat, TCC Slippage, Soft Apply	Replace Cooler Bypass Valve	S36996A-5K
56	Converter Remains Applied Causing Harsh Downshifts, TCC Apply & Release Problems	Replace Lock Up Clutch Control Valve Assembly	S39741C-1K
57	Excess TCC Slip, Harsh TCC Apply, Converter Overheat	Install Shift Correction Package	S46165
58	TCC Cycling, Burned Converter, Engine Stall, No TCC Release	Replace TCC Control Spring	S46741-3B
59	Harsh TCC Apply, TCC Slip On Apply	Replace TCC Modulator Spring	S46741-3C
60	Harsh TCC Apply, Low Line Pressure, Excess TCC Slip, Converter Lining Overheat	Replace TCC Back Pressure Spring	S46741-3D
61	High TCC Slip RPM At Increasing Load	Replace TCC Modulator Sleeve / Plunger (OEM Ratio)	S46741C
62	High TCC Slip RPM At Increasing Load	Replace TCC Modulator Sleeve / Plunger (Increased Ratio)	S46741CA
63	Excess TCC Slip	Replace TCC Modulator Valve / Sleeve	S46741CB
64	Excess TCC Slip, TCC Lining Comes Off, Converter Overheat	Replace TCC Control Valve (Oversized)	S46741CCK
65	Lock Up Shudder On Coast Down, Engine Chug, Lock Up Problems	Install Valve Body Kit	S56165E
66	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Shift Correction Package	S56165H
67	No TCC Apply, Poor Converter Fill, Delayed Engagements	Replace TCC Modulator/Sleeve	S56741C-2K
68	Lock Up Shudder On Coast Down, Engine Chug	Replace Anti-Shudder Spring	S56741C-3
69	Low TCC Apply Pressure	Replace TCC Regulator Valve Spring	S56741CA-3K

TSB#	Symptom	Solution	Part #
70	Converter Apply Problems	Replace TCC Regulator Valve	S56741Q-1
71	Converter Apply Problems, High TCC Slip	Replace TCC Regulator/Sleeve	S56741Q-2K
72	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Zip Kit	S56741ZK
73	Converter Remains Applied Causing Harsh Downshifts, TCC Apply & Release Problems	Replace Lock Up Clutch Control Valve Assembly	S59741C-1
95	Lock Up Shudder	Install Shift Correction Package	S76165E
96	Delayed/No Lock Up, Uncontrollable TCC, Shudder, TCC Apply & Release Problems, Cross Leak Of Converter Release Oil, Loss Of Lock Up	Install Valve Body Kit	S76169E
97	Lock Up Shudder, Uncontrollable TCC, Delayed/No Lock Up, Codes 628, 741, 1741	Install Sure Cure Kit (Up To 1995)	S76174
98	Lock Up Shudder, Uncontrollable TCC, Delayed/No Lock Up, Codes 628, 741, 1741	Install Sure Cure Kit (1996-Up)	S76174A
99	TCC Apply & Release Problems, Cross Leak Of Converter Release Oil	Replace Stator Support Sleeve	S76507S
100	Delayed/No Lock Up, Lock Up Shudder, Uncontrollable TCC	Replace Bypass Control Sleeve/Plunger	S76741AK
101	TCC Slip, Loss Of Lock Up	Replace Bypass Clutch Control Valve (Oversized)	S76741H-1K
118	Delayed Engagement, Converter Slip Codes, Converter Overheat	Install Shift Correction Kit	S86165E
119	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Sure Cure Kit	S86174
120	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Sure Cure Kit	S86174H
121	No/Soft TCC Apply, TCC Slip	Replace TCC Control Valve & Sleeve	S86741B-2
122	TCC Apply & Release Problems, Hydraulic Related Converter Codes	Replace Bypass Clutch Control Valve (Oversized)	S86741BK
123	TCC Apply & Release Control Problems	Replace Bypass Clutch Control Valve (Oversized)	S86741HBBK
124	No TCC Apply, TCC Cycle/Surge	Replace Bypass Control Sleeve/Plunger (0.486" Dia Spool)	S86741HBK
125	No TCC Apply, TCC Cycle/Surge	Replace Bypass Control Sleeve/Plunger (0.496" Dia Spool)	S86741HCK
126	No TCC Apply	Replace Solenoid Regulator Valve (Oversized)	S86741LK
127	Delayed Engagement, Converter Slip Codes, Converter Overheat	Replace Converter Regulator Valve (Oversized)	S86741QK
138	TCC Slippage, No Lock Up, Low Converter Charge	Install Shift Correction Package	S96167
139	TCC Slippage, No Lock Up, Low Converter Charge	Replace Bypass Clutch Control Assembly	S96741BK
140	TCC Slippage, No Lock Up, Low Converter Charge	Replace Master Clutch Control & Pressure Regulator Valve Assemblies	S96741K
150	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Kit®	T36165E
151	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Reprogramming Kit™ (HD Applications)	T36169EA

TSB#	Symptom	Solution	Part #
153	TCC Slippage, Lock Up Shudder	Install Shift Kit®	T39165
154	Excess TCC Slip, Harsh TCC Apply, Converter Overheat	Install Shift Kit®	T46165
155	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Shift Kit®	T56165H
156	Lock Up Shudder On Coast Down, Engine Chug, Lock Up Problems	Install Shift Kit®	T56167E
163	Delayed/No Lock Up, Uncontrollable TCC, Shudder, TCC Apply & Release Problems, Cross Leak Of Converter Release Oil, Loss Of Lock Up	Install Shift Kit®	T76165E
166	Delayed Engagement, Converter Slip Codes, Converter Overheat	Install Shift Kit®	T86165E
167	Hard Shift, Neutral At Stop	Install Shift Kit®	T86165H
169	Lock Up Shudder	Use Alignment Tool To Properly Align Converter To Adapter Plate	T-0519A T-0519AAC
173	TCC Apply & Release Control Problems, Code 628	Install Bypass Clutch Control Sleeve & Plunger	S86741A-2
174	Converter Overheat	Install End Plug Kit	S56741-6K
175	High TCC Slip RPM At Increasing Load, Slip Codes	Install TCC Modulator Sleeve & Plunger Valve Kit	S46741-3DA
176	Excess TCC Slip RPM, Code 741, TCC Cycling, TCC Slippage, Code 1783	Install TCC Control Sleeve Assembly	S16507C
185	Excessive TCC Slip RPM, TCC Codes, Converter Apply & Release Problems, Converter Overheat	Install Converter Release Regulator Valve Kit	S95741C-1K
186	Converter Overheat, Low Converter Pressure, Lube Failure	Install Lubrication Control Valve Kit (Oversized)	S95741H-1
187	Converter Overheat, Low TCC Release Pressure, Excessive TCC Slip RPM, Excessive TCC Cycling RPM, TCC Related Codes	Install Bypass Clutch Control Valve Kit (Oversized)	S95741D-1K
188	Shift Flares, Delayed/Harsh Engagements, Excessive Heat	Install Zip Kit	S95741ZK



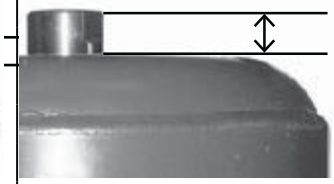
Crankshaft - Cast



Crankshaft - Steel

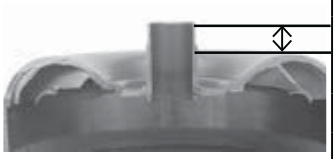
Impeller - Deep

Early (.650")



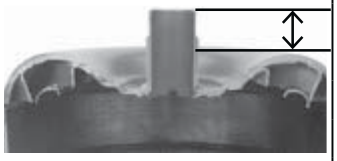
Impeller - Shallow

Late (.950")



Impeller - Deep

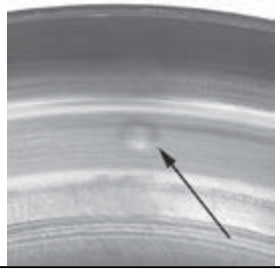
Early (.650")



Impeller - Shallow

Late (.950")

Pads - Do Not Use the Wrong Bolt!



Damage from using the wrong bolt! (Internal View)

Pattern - Offset

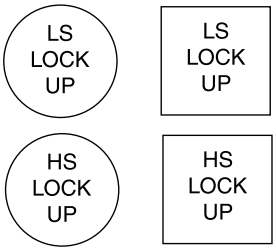
Pattern - 90˚

Ring Gear - Narrow

Ring Gear - Wide

Stickers - Non Lock-Up

A727 (TF8) & A904 (TF6)



Stickers - Lock-Up

A727 (TF8) & A904 (TF6)

2 Weights - CR19

A727 (TF8) Narrow Ring Gear

2 Weights - CR17

A727 (TF8) Narrow Ring Gear

2 Weights - CR18

A727 (TF8) Narrow Ring Gear

2 Weights - CR22

A727 (TF8) Wide Ring Gear

2 Weights - CR21

A727 (TF8) Wide Ring Gear

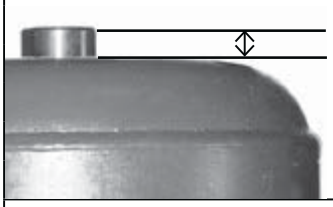
2 Weights - CR20

A727 (TF8) Wide Ring Gear

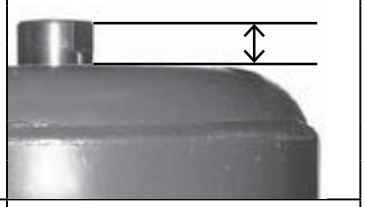
To ID Deep and Shallow Impellers

To ID Impellers

In some later models, Chrysler changed to a Shallow Impeller (Lower Crown). Measure from the top of the impeller to the top of the hub as shown here. The Deep Impeller (Early) measures .650" and the Shallow Impeller (Late) measures .950".



Deep Impeller (Early) .650"



Shallow Impeller (Late) .950"

To ID Narrow and Wide Ring Gears

To ID Narrow & Wide Ring Gears

Narrow Ring Gears are approximately 1/2" from the outside of the converter to the outside of the gear.

Wide Ring Gears are approximately 1".

Narrow Ring Gear (1/2" Wide)

Wide Ring Gear (1" Wide)

To ID Offset and 90 Degree Bolt Patterns

To ID Bolt Patterns

In some later models, Chrysler changed from an offset bolt pattern to a 90˚ bolt pattern. Rear Wheel Drive converters can be identified as follows: 90˚ bolt pattern covers may have an "90˚, 0˚ or Ø" stamped between the lugs. Offset bolt pattern covers will not have any stamping.

90˚ Bolt Pattern

To ID Bolt Patterns

In some later models, Chrysler changed from an offset bolt pattern to a 90˚ bolt pattern. The offset bolt pattern has one pad that is offset. Take a straight edge from the center of one bolt hole, across the center of the pilot, to the opposite bolt hole.

Or measure the distance between the bolts next to each other. If the measurements are the same, it is a 90˚ bolt pattern. If they are different, it is an offset bolt pattern.

Offset Bolt Pattern

90˚ Bolt Pattern

To ID Offset and 90 Degree Bolt Patterns (A604, A606)

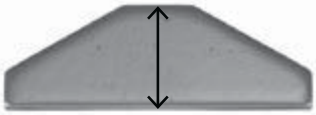
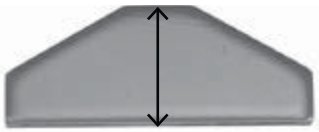
To ID Bolt Patterns

In some later models, Chrysler changed from an offset bolt pattern to a 90˚ bolt pattern. Front Wheel Drive converters (A604 & A606) can be identified as follows: Offset bolt pattern covers may have an "O" stamped between the lugs or on the side. Some may have both. 90˚ bolt pattern covers will not have any stamping.

Offset Bolt Pattern (One or Both)

90˚ Bolt Pattern

To ID Chrysler Weights			
To ID Chrysler Weights	Prior to 1978, some Chrysler converters used two balancing weights. Measure the weight and compare to the sizes listed. The measurements and matching converters are listed to the far right.		.88”x.62”x.177” (Used w/ CR22) 1.20”x.75”x.158” (Used w/ CR19) 1.40”x.75”x.25” (Used w/ CR17, CR21) 1.62”x.75”x.38” (Used w/ CR18, CR20)
		Weights	**Measurements**

To ID Butterfly Wheights			
To ID Butterfly Weights	There are two butterfly weights for Chrysler. The 100 Gram Weight fits the 340, 400 & 440 with a Cast Crank. The overall height of this weight is approximately 1.175” The 120 Gram Weight fits the 360 engines. The overall height of this weight can be either 1.375” or 1.545” depending on the thickness of the metal.		
		100 Gram (1.175” Tall)	**120 Gram (1.375” or 1.545” Tall)**

To ID 48RE			
To ID 48RE	The 48RE has a sealing ring on the stator support shaft that rides on the inside of the impeller hub. Refer to the picture to the right. The A618 Lock-Up, 47RE and the 47RH do not have this sealing ring.	The CR70X, CR70X-S1 to CR70X-S5 are compatible with the 48RE. These can also be used on the A618 Lock-Up, 47RE and the 47RH. These are best suited for vehicles that have engine modifications with increased torque output.	

CR87

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (8.75")	**1.335"**	**22**	**4 Pads, Offset**

NOTES
Lock Up
2000-2400 Stall

APPLICATION | CODES
2003-06 Wrangler, 2.4L, 2.7L

TSB: **135**

CR46

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.125")	**1.335"**	**22**	**4 Pads, Offset**

NOTES
Lock Up
2000-2400 Stall

APPLICATION | CODES
2003-10 Dakota 3.7L, 04-08 Magnum 3.5L, 02-10 Liberty 3.7L, 02-11 Wrangler 2.4L, 4.0L

138, 316, 550, 636, 679, 799, 803, 956, 969, 984

TSB: **135**

CR0621

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.125")	**1.335"**	**22**	**4 Pads, 90°**

NOTES
Lock Up
2000-2400 Stall
EMCC1 Grooved Friction

APPLICATION | CODES
2003-10 Dakota 3.7L, 04-08 Magnum 3.5L, 02-10 Liberty 3.7L, 02-11 Wrangler 2.4L, 4.0L

893AB, 141887781

TSB: **135**

CHRYSLER
45RFE, 5-45RFE

CR2A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.625" (10")	**1.810"**	**29**	**4 Pads, 5/16 x 24**

NOTES
Lock Up
Low Stall
O-Ring Not Included

APPLICATION | CODES
1999-Up Aspen, Dakota, Durango, Grand Cherokee, Ram 1500-3500, Ram 2500 Hemi 4.7L, 5.7L

352AA

TSB: **22, 77, 78, 79, 132, 133, 134, 159, 160**

CR2B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.625" (10")	**1.810"**	**29**	**4 Pads, 5/16 x 24**

NOTES
Lock Up
Low Stall
O-Ring Not Included

APPLICATION | CODES
2006-Up 5.7L Hemi

TSB: **22, 77, 78, 79, 132, 133, 134, 159, 160**

CR2

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.625" (10")	**1.810"**	**29**	**4 Pads, 5/16 x 24**

NOTES
Lock Up
Med. Stall
O-Ring Not Included

APPLICATION | CODES
1999-Up Commander, Dakota, Durango, Grand Cherokee, Liberty, Raider, Ram 1500 2.8L, 3.7L, 4.7L, 5.2L, 5.9L, 2.8L Diesel

582AD, B1

TSB: **22, 77, 78, 79, 132, 133, 134, 159, 160**

NOTES

CR1320

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9")	**1.336"**	**22**	**4 Pads, 90°**

NOTES

Lock Up
Low Stall
EMCC1 Grooved Friction

APPLICATION | CODES

2007-09 Caravan, Pacifica, Routan 3.8L, 4.0L

447AB, 520AA, 520AB, 556AA, 556AB, 556AC

CR1323

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9")	**1.336"**	**22**	**4 Pads, 90°**

NOTES

Lock Up
Med. Stall
EMCC1 Grooved Friction
Replaces CR13203

APPLICATION | CODES

2010-12 Caravan, Routan, Town & Country 3.8L

538AA

NOTES

CHRYSLER
68RFE

CR7201

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.425" (12.25")	**2.124"**	**27**	**6 Holes, 10mm x 1.5**

NOTES
Lock Up - 2 Sided Friction
Low Stall (95k)
O-Ring Not Included

APPLICATION | CODES
2007-08 Ram 2500, 3500 Diesel 5.9L, 6.7L Diesel
671AD

TSB: **77, 78, 79, 132, 133, 134, 159, 160**

CR7201-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.425" (12.25")	**2.124"**	**27**	**6 Holes, 10mm x 1.5**

NOTES
Lock Up - 2 Sided Friction
Low Stall (95k)
Billet Cover
O-Ring Not Included

APPLICATION | CODES
2007-08 Ram 2500, 3500 Diesel 5.9L, 6.7L Diesel
671AD

TSB: **77, 78, 79, 132, 133, 134, 159, 160**

CR7202

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.425" (12.25")	**2.124"**	**27**	**6 Holes, 10mm x 1.5**

NOTES
Lock Up - 2 Sided Friction
Med. Stall (110k)
O-Ring Not Included

APPLICATION | CODES
2009-11 Ram 2500, 3500 Diesel 5.9L, 6.7L Diesel
671AE

TSB: **77, 78, 79, 132, 133, 134, 159, 160**

CR7202-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.425" (12.25")	**2.124"**	**27**	**6 Holes, 10mm x 1.5**

NOTES
Lock Up - 2 Sided Friction
Med. Stall (110k)
Billet Cover
O-Ring Not Included

APPLICATION | CODES
2009-11 Ram 2500, 3500 Diesel 5.9L, 6.7L Diesel
671AE

TSB: **77, 78, 79, 132, 133, 134, 159, 160**

CR7801

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375” (10.2”)	**1.335”**	**22**	**3 Pads, 8mm x 1.25**

NOTES
2 Friction Clutch Pack
High Stall

APPLICATION | CODES
2003-Up Commander, Gr. Cherokee 3.5L, 3.7L
447AA, 448AA, 489AA, 603AA

TSB: **7, 76, 102, 103**

MB18B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375” (10.2”)	**1.335”**	**22**	**3 Pads, 8mm x 1.25**

NOTES
2 Friction Clutch Pack
Low Stall

APPLICATION | CODES
1996-Up Grand Cherokee, Liberty 3.7L, 300, 06-07 Charger, Grand Cherokee, Magnum
421AB, 478AA, 500AA, 520AB, 580AA, 580AB

TSB: **7, 76, 102, 103**

MB18A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375” (9.4”)	**1.375”**	**22**	**3 Pads, 8mm x 1.25**

NOTES
Dual Clutch

APPLICATION | CODES
2004-08 Crossfire 3.2L
210-250-0602, 210-250-0702, 210-250-0902, 211-250-0002, 211-250-0302, 211-250-0702, 211-250-0802

TSB: **7, 76, 102, 103**

MB18A-3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375” (9.4”)	**1.375”**	**22**	**3 Pads, 8mm x 1.25**

NOTES
Triple Clutch

APPLICATION | CODES
240-250-0002

TSB: **7, 76, 102, 103**

CHRYSLER
A404, A413, A470, A670

CR35

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	**1.335"**	**23**	**3 Pads**

NOTES
Non Lock Up
Slotted Hub
Low Stall

APPLICATION | CODES
1978-85 1.6L, 1.7L, 2.2L, 2.6L Non Turbo w/ EFI
058, 466, 597, 873

CR43

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	**1.335"**	**23**	**3 Pads**

NOTES
Non Lock Up
Slotted Hub
High Stall

APPLICATION | CODES
1978-85 Turbo and 2.2L w/o EFI
068, 970

CR39

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	**1.335"**	**23**	**4 Pads, Offset**

NOTES
Non Lock Up
Flats on Hub
Low Stall
Deep Impeller (Non Turbo)

APPLICATION | CODES
1986-Up 2.2L, 2.5L, 2.6L
143, 161, 340, 370, 761, 963, 974

CR39K

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	**1.335"**	**23**	**4 Pads, Offset**

NOTES
Non Lock Up
Flats on Hub
Med. Stall
Shallow Impeller (Turbo)

APPLICATION | CODES
1986- Up Turbo
340, 370, 761, 963

CR40

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	**1.335"**	**23**	**4 Pads, Offset**

NOTES
Non Lock Up
Flats on Hub
High Stall
Deep Impeller (Turbo)

APPLICATION | CODES
1986-Up Caravan, Daytona, Lancer, Lebaron, Shadow, Spirit 2.2L, 2.5L
072, 339, 369, 432, 967, 972

CR41

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.563”)	**1.335”**	**22**	**4 Pads, Offset**

NOTES
Lock Up
Flats on Hub
Low Stall
Deep Impeller

APPLICATION | CODES
1987-92 2.5L, 2.6L, 3.0L Non Turbo
136, 137, 520, 627, 964, 965

CR72

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.563”)	**1.335”**	**22**	**4 Pads, Offset**

NOTES
Lock Up
Flats on Hub
High Stall
Deep Impeller

APPLICATION | CODES
1987-92 2.2L & Turbo
138, 316, 597, 636, 679, 956, 969, 984

CR42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.6”)	**1.335”**	**22**	**4 Pads, Offset**

NOTES
Lock Up
Flats on Hub
Med. Stall
Shallow Impeller

APPLICATION | CODES
1986-02 2.0L, 2.2L, 2.4L, 2.5L, 3.0L
002, 244, 305, 344, 444, 544, 626, 627, 966

CR73

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.6”)	**1.335”**	**22**	**4 Pads, Offset**

NOTES
Lock Up
Flats on Hub
High Stall
Shallow Impeller
Timing Marks

APPLICATION | CODES
1990-Up 2.0L, 2.4L, 2.7L, Turbos
147, 250, 311, 379, 479, 956

CR88

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.6”)	**1.335”**	**22**	**4 Pads, 90°**

NOTES
Lock Up
Flats on Hub
High Stall
Shallow Impeller

APPLICATION | CODES
1995-01 Neon 2.0L, 1995-00 Voyager 3.0L

TRANSTAR INDUSTRIES, INC.®

Chrysler 722.6 Torque Converter

RECON™

CR7801 Features:

- 100% upgraded with Sonnax piston return spring kit
- 100% replacement of friction package with new frictions

Common Failures:

Engine shuddering/lugging due to piston drag

Solution:

- Torque Converter
  - New Sonnax piston return spring kit
- Transmission (to be done by customer) to improve hydraulic pressure
  - 78741HRK (Superior #K093)
  - S78741QK (Sonnax #68942-10K)

Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*

3 YEAR WARRANTY INDUSTRY BEST

* Recon by Transtar Torque Converter Limited Warranty

CR78

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
High Stall (145k)

APPLICATION | CODES
1988-92 Wrangler 4.0L

TSB: **1, 172**

CR68

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Flats on Hub
High Stall (145k)

APPLICATION | CODES
1993-02 Wrangler 4.0L

TSB: **1, 172**

CR79

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
2200-2400 Stall
Replace w/ CR80 & Up-dated Pump

APPLICATION | CODES
1988-93 3.9L V6

TSB: **1, 172**

CR80

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Flats on Hub
Med. Stall

APPLICATION | CODES
1993-95 B150, B250, B1500, B2500 3.9L V6

TSB: **1, 172**

CHRYSLER
A500, 40RH, 42RH, 42RE, 44RE (LOCK UP)

CR47

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.335"	22	4 Pads, Offset

NOTES
Lock Up
Flats on Hub
Med. Stall

APPLICATION | CODES
1990-95 Wrangler 2.5L, 1989-02 Dakota 2.5L, 1990-93 Ram D-50 2.4L, 3.0L

002B, 146, 311, 388

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR97

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.335"	22	4 Pads, 90°

NOTES
Lock Up
Flats on Hub
Med. Stall

APPLICATION | CODES
1996-05 Wrangler 2.5L, 2.7L

002B, 146, 311, 388

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR9L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, Offset

NOTES
Lock Up
Slotted Hub
1700-2100 Stall
122T Ring Gear

APPLICATION | CODES
1988-93 3.7L, 3.9L, 5.2L

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR9H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, Offset

NOTES
Lock Up
Slotted Hub
1900-2400 Stall
122T Ring Gear

APPLICATION | CODES
1988-93 3.7L, 3.9L, 5.2L

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR67

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, Offset

NOTES
Lock Up
Slotted Hub
High Stall (145k)
122T Ring Gear

APPLICATION | CODES
1978-93 3.9L, 5.2L

White High Stall Sticker

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR91

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, 90°

NOTES
Lock Up
Flats on Hub
2200-2500 Stall
122T Ring Gear, Built w/ Stator Washer

APPLICATION | CODES
1996-03 Dakota, Durango, Ram 1500, Jeep 3.9L, 5.2L

White Sticker

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	1.810”	26	4 Pads, Offset

NOTES
Lock Up
Flats on Hub
Low Stall
122T Ring Gear

APPLICATION | CODES
1993-95 3.9L, 5.2L
White Sticker

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR28

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	1.810”	26	4 Pads, Offset

NOTES
Lock Up
Flats on Hub
High Stall (145k)
122T Ring Gear

APPLICATION | CODES
1996-03 Cherokee, Dakota 5.7L
White Sticker

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR69

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	1.810”	26	4 Pads, Offset

NOTES
Lock Up
Flats on Hub
High Stall (166k)

APPLICATION | CODES
1992-05 Wrangler 4.0L
703

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR90

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	1.810”	26	4 Pads, 90°

NOTES
Lock Up
Flats on Hub
High Stall (144k)

APPLICATION | CODES
1994-04 Grand Cherokee & Laredo 4.0L, 1996-05 Wrangler 4.0L

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CR93

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	1.810”	26	4 Pads, 90°

NOTES
Lock Up
Flats on Hub
High Stall (145k)
130T Wide Ring Gear

APPLICATION | CODES
1996-03 Cherokee, Dakota 5.7L
Red Sticker

TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CHRYSLER
A518, A618, 46RE/RH, 47RE/RH, 48RE (NON LOCKUP)

CR61

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
1700-2000 Stall
130T Wide Ring Gear

APPLICATION | CODES
1989-Up Ramcharger, W150-250 5.2L
087, 125

TSB: **1, 172**

CR66

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
2100-2400 Stall
130T Wide Ring Gear

APPLICATION | CODES
1989-95 B150-350, B1500-2500 5.2L
681, 682, 862, 863

TSB: **1, 172**

CR92

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Pads, 90°**

NOTES
Non Lock Up
High Stall (144k)
130T Wide Ring Gear

APPLICATION | CODES
1996-Up B1500-2500 5.2L
546

TSB: **1, 172**

CR58

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Thin Pads, Offset**

NOTES
Non Lock Up
High Stall (145k)
130T Wide Ring Gear
Square Weight

APPLICATION | CODES
1992 Ramcharger, W150-250 5.2L
125, 520, 858

TSB: **1, 172**

CR62

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Thin Pads, Offset**

NOTES
Non Lock Up
Low Stall (115k)
130T Wide Ring Gear
Butterfly Weight

APPLICATION | CODES
1992 B250-350, D250-350, Ramcharger 5.9L
085, 121, 250

TSB: **1, 172**

CR27

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.125" (12.25")	**1.810"**	**24**	**6 Pads**

NOTES
Non Lock Up
1900-2100 Stall
No Ring Gear

APPLICATION | CODES
1989-93 D250-350, W250-350 5.9L Cummins Diesel

TSB: **1, 172**

CR63

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Pads, Offset

NOTES
Built w/ High Carbon
2300-2600 Stall
130T Wide Ring Gear

APPLICATION | CODES
1992-96 B150-3500, D150-250, Dakota, Grand Cherokee, Ram 1500-2500, Ramcharger, 5.2L

629, 875, 878, 879, 957, Red or White Sticker

TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172

CR64

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Pads, Offset

NOTES
Built w/ High Carbon
2300-2600 Stall
130T Wide Ring Gear

APPLICATION | CODES
1992-96 B250-350, B2500-3500, D150-350, Grand Cherokee, Ram 1500-3500, Ram Charger 5.9L

642, 643, 878

TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172

CR94

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.3" (10")	1.810"	23	4 Pads, 90°

NOTES
Built w/ High Carbon
2300-2600 Stall
130T Wide Ring Gear

APPLICATION | CODES
1996-03 B1500-3500, Dakota, Durango, Ram 1500-3500 Including Van, 5.2L, 5.9L

595, 785, Red or Green sticker

TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172

CR94L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.3" (10")	1.810"	23	4 Pads, 90°

NOTES
Built w/ High Carbon
2100-2400 Stall
130T Wide Ring Gear

APPLICATION | CODES
1996-03 B1500-3500, Dakota, Durango, Ram 1500-3500 Including Van, 5.2L, 5.9L

591, 767, 787, Red or Green sticker

TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172

CR94L-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.3" (10")	1.810"	23	4 Pads, 90°

NOTES
Built w/ High Carbon
2100-2400 Stall
130T Wide Ring Gear
Billet Cover
Heavy Duty Bearings

APPLICATION | CODES
1996-03 5.9L V8 Trucks

591, 767, 787, Red or Green sticker

TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172

CR65

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.785" (12.25")	1.810"	23	6 Pads

NOTES
Single Disc
Med. Stall
No Ring Gear

APPLICATION | CODES
1992-02 Ram 2500-3500 8.0L V10 Gas Only. Do not use in 48RE!

506, 591, 633

TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172

CHRYSLER
A518, A618, 46RE/RH, 47RE/RH, 48RE (LOCKUP)

CR70

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.785" (12.25")	**1.810"**	**23**	**6 Tapped Holes**

NOTES
OE Style
Shown For Reference Only

APPLICATION | CODES
Shown for OE Reference Only

CR70L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.785" (12.25")	**1.810"**	**23**	**6 Tapped Holes**

NOTES
Single Disc
Low Stall
Billet Cover

APPLICATION | CODES
94-03 A618, 47RE, 47RH. Do not use in 48RE!
634, 644, 868

TSB: **1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172**

CR70X

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.785" (12.25")	**1.810"**	**23**	**6 Tapped Holes**

NOTES
Single Disc
Low Stall
Billet Cover

APPLICATION | CODES
2003-07 48RE (Retros A618, 47RE, 47RH)

TSB: **1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172**

CR70X-S1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.785" (12.25")	**1.810"**	**23**	**6 Tapped Holes**

NOTES
Single Disc
100-200 Lower Stall Than Stock
Billet Cover

APPLICATION | CODES
2003-07 48RE (Retros A618, 47RE, 47RH)

TSB: **1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172**

CR70X-S2

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.785" (12.25")	**1.810"**	**23**	**6 Tapped Holes**

NOTES
Triple Disc
50-150 Lower Stall Than Stock
Billet Cover
Shipped w/ Bolts

APPLICATION | CODES
2003-07 48RE (Retros A618, 47RE, 47RH)

TSB: **1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172**

To ID 48RE

To ID 48RE	The 48RE has a sealing ring on the stator support shaft that rides on the inside of the impeller hub. Refer to the picture to the right. The A618 Lock-Up, 47RE and the 47RH do not have this sealing ring.	*The CR70X, CR70X-S1 to CR70X-S5 are compatible with the 48RE. These can also be used on the A618 Lock-Up, 47RE and the 47RH. These are best suited for vehicles that have engine modifications with increased torque output.	

CR70X-S3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.785" (12.25")	**1.810"**	**23**	**6 Tapped Holes**

NOTES
Triple Disc
100-200 Lower Stall Than Stock
Billet Cover

APPLICATION | CODES
2003-07 48RE (Retros A618, 47RE, 47RH)

TSB: **1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172**

CR70X-S4

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.785" (12.25")	**1.810"**	**23**	**6 Tapped Holes**

NOTES
Triple Disc
200-400 Lower Stall Than Stock
Billet Cover

APPLICATION | CODES
2003-07 48RE (Retros A618, 47RE, 47RH)

TSB: **1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172**

CR70X-S5

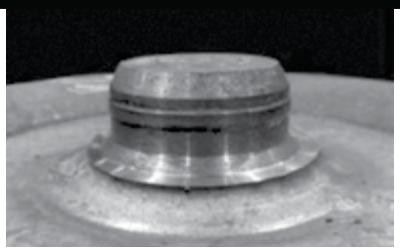
DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.785" (12.25")	**1.810"**	**23**	**6 Tapped Holes**

NOTES
Triple Disc
300-500 Lower Stall Than Stock
Billet Cover

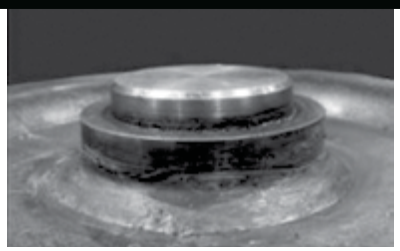
APPLICATION | CODES
2003-07 48RE (Retros A618, 47RE, 47RH)

TSB: **1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172**

PILOT IDENTIFICATION



CR65



CR70

CHRYSLER
A604, 40TE, 41TE

CR42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.6”)	**1.335”**	**22**	**4 Pads, Offset**

NOTES
Lock Up
Med. Stall
Shallow Impeller

APPLICATION | CODES
1989-07 2.0L, 2.4L, 2.5L, 2.7L, 3.0L
002, 244, 305, 344, 444, 544, 626, 627, 966

TSB: **23, 24, 131, 135, 136, 177**

CR73

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.6”)	**1.335”**	**22**	**4 Pads, Offset**

NOTES
Lock Up
High Stall
Shallow Impeller
Timing Marks

APPLICATION | CODES
1991-Up 2.2L, 2.4L, 2.5L Non Turbo, 01-03 PT Cruiser 2.4L, Some Mitsubishi Eclipse
147, 250, 311, 379, 479, 956

TSB: **23, 24, 131, 135, 136, 177**

CR72

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.563”)	**1.335”**	**22**	**4 Pads, Offset**

NOTES
Lock Up
High Stall
Deep Impeller

APPLICATION | CODES
1991-Up 2.4L, 2.5L Turbo
138, 316, 597, 636, 679, 956, 969, 984

TSB: **23, 24, 131, 135, 136, 177**

CR44

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.75”)	**1.335”**	**24**	**4 Pads, Offset**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1989-90 Caravan 3.0L, 3.3L
039, 040, 395, 581, 595

TSB: **23, 24, 131, 135, 136, 177**

CR45

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75” (8.75”)	**1.335”**	**22**	**4 Pads, Offset**

NOTES
Lock Up
2000-2400 Stall
Can be Smooth or Dimpled

APPLICATION | CODES
1990-97 Caravan, Dynasty, Grand Caravan, Imperial, New Yorker, Town & Country 3.3L, 3.8L
076, 311, 375, 476, 518, 550, 585, 775

TSB: **23, 24, 131, 135, 136, 177**

CR88

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.6")	1.335"	22	4 Pads, 90°

NOTES
Lock Up
High Stall
Shallow Impeller

APPLICATION | CODES
1998-Up Grand Caravan 3.0L, 1995-06 Stratus 2.4L, 01-09 PT Cruiser 2.4L

TSB: 23, 24, 131, 135, 136, 177

CR85

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9")	1.335"	22	4 Pads, 90°

NOTES
Lock Up
2000-2400 Stall
Can be Smooth or Dimpled

APPLICATION | CODES
1998-02 2.4L, 2.7L, 3.3L, 3.8L (2003-07 Use CR0923)

447AA, 476AD

TSB: 23, 24, 131, 135, 136, 177

CR0923

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9")	1.335"	22	4 Pads, 90°

NOTES
Lock Up
2000-2400 Stall
EMCC1 Grooved Friction

APPLICATION | CODES
2003-07 2.4L, 2.7L, 3.3L, 3.8L (EMCC Grooved Friction Version of the CR85)

447AA, 476AD

TSB: 23, 24, 131, 135, 136, 177

CR0920

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9")	1.336"	22	4 Pads, 90°

NOTES
Lock Up
Slightly High Stall
EMCC1 Grooved Friction

APPLICATION | CODES
2007-09 Sebring, Stratus 2.4L

478AA, 524AA, 524AB, 534AA, 534AB, 534AC

TSB: 23, 24, 131, 135, 136, 177

CR0921

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9")	1.336"	22	4 Pads, 90°

NOTES
Lock Up
Low Stall
EMCC1 Grooved Friction

APPLICATION | CODES
2007-09 Sebring, Stratus 2.7L

527AA, 527AB, 557AA

TSB: 23, 24, 131, 135, 136, 177

CHRYSLER
A606, 42LE

CR46

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.125")	**1.335"**	**22**	**4 Pads, Offset**

NOTES

Lock Up
2000-2400 Stall

APPLICATION | CODES

1993-97 Concorde, Intrepid, LHS, New Yorker, Vision 3.3L, 3.5L

138, 316, 550, 636, 679, 799, 803, 956, 969, 984

TSB: **23, 24, 131, 135, 136, 177**

CR86

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.125")	**1.335"**	**22**	**4 Pads, 90°**

NOTES

Lock Up
2000-2400 Stall
Smooth or Dimpled

APPLICATION | CODES

1998-02 300M, Concorde, Intrepid, LHS, Prowler 2.7L, 3.2L, 3.5L (2003-Up Use CR0621)

461AB, 447AA, 447AB, 845AA, 853A, Red Sticker

TSB: **23, 24, 131, 135, 136, 177**

CR0621

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.125")	**1.335"**	**22**	**4 Pads, 90°**

NOTES

Lock Up
2000-2400 Stall
EMCC1 Grooved Friction

APPLICATION | CODES

2003-Up 300M, Concorde, Intrepid, LHS, Prowler 2.7L, 3.2L, 3.5L (EMCC Grooved Version of the CR86)

893AB, 141887781

TSB: **23, 24, 131, 135, 136, 177**

TRANSTAR INDUSTRIES, INC.®

A518 1996-2002

RECON™

CR94 Series Features:

- 100% friction replacement with high carbon friction bonded to cover for better durability and apply
- Welded reinforced apply pistons
- Updated to narrow slot impeller hub to eliminate pump gear wear

Application:

CR94 – A518 high stall 1998-99

CR94L – A518 V8 gas engine, 1996-02

- Low stall – Custom cut stator lowers stall speed

CR94L-S1 – A518 1996-02

- Low stall – Custom cut stator lowers stall speed
- Billet steel cover installed to help eliminate ballooning and distortion during clutch apply
- Can be used in place of CR94 and CR94L

Common Failures:

Friction lining failure

Solution:

- Upgrade friction to high carbon type to increase holding power
- Recon bonds directly to the cover the same as the OEM
- More durable to bond to the cover than the piston.

Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*

*3 YEAR WARRANTY INDUSTRY BEST

* Recon by Transtar Torque Converter Limited Warranty

CHRYSLER
A727, TF8 (NO RING GEAR)

CR54L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	24	4 Pads, Offset

NOTES
Non Lock Up
Low Stall
No Ring Gear

APPLICATION | CODES
1978-91
Low Stall Sticker

TSB: 1, 172

CR54H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	24	4 Pads, Offset

NOTES
Non Lock Up
High Stall
No Ring Gear

APPLICATION | CODES
1978-91
High Stall Sticker

TSB: 1, 172

CR55L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Pads, Offset

NOTES
Lock Up
Low Stall
No Ring Gear

APPLICATION | CODES
1978-91 360, 400 V8
Blue, Red or White High Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CR55H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Pads, Offset

NOTES
Lock Up
High Stall
No Ring Gear

APPLICATION | CODES
1978-91 360, 400 V8
Blue, Red or White High Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CR51

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12" (11.125")	1.810"	24	4 Pads, Offset

NOTES
Non Lock Up
Low Stall
No Ring Gear

APPLICATION | CODES
1972-77 8 Cyl. 360 & 401

TSB: 1, 172

CR27

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.125" (12.25")	1.810"	24	6 Pads

NOTES
Non Lock Up
1900-2100 Stall
No Ring Gear

APPLICATION | CODES
1991-93 D250-350 5.9L Cummins Diesel

TSB: 1, 172

CR5

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.125”)	**1.810”**	**19**	**4 Pads, Offset**

NOTES
Non Lock Up
1900-2200 Stall
130T Narrow Ring Gear
No Weights

APPLICATION | CODES
1962-66 4.5L, 5.2L, 5.9L, 6.3L, 6.8L, 7.0L, 7.2L

CR7

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.125”)	**1.810”**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
1900-2200 Stall
130T Narrow Ring Gear
No Weights

APPLICATION | CODES
1969-76 383, 400 Engine
(Steel Crank)

CR19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.125”)	**1.810”**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
1900-2200 Stall
130T Narrow Ring Gear
Two 1.20” x .75”x.158”
Weights

APPLICATION | CODES
1967-77 Charger, Coronet, D100, Monaco,
Polara 5.9L, 7.2L, 440
(Cast or Forged Crank)

CR17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.125”)	**1.810”**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
1900-2200 Stall
130T Narrow Ring Gear
Two 1.40” x .75”x.250”
Weights

APPLICATION | CODES
1971-76 6.6L, 7.2L, 400
(Cast or Forged Crank)

CR18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (11.125”)	**1.810”**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
1900-2200 Stall
130T Narrow Ring Gear
Two 1.62” x .75”x.380”
Weights

APPLICATION | CODES
1971-76 B100-300, Cordoba, D100-300, Newport,
Ramcharger, Town & Country 5.9L, 6.6L V8

CHRYSLER
A727, TF8 (WIDE GEAR, NON LOCK UP)

CR12

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
High Stall
130T Wide Ring Gear
No Weights

APPLICATION | CODES
1967-71 426 w/ Hemi Engine

CR10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Thick Pads, Offset**

NOTES
Non Lock Up
2100-2400 Stall
130T Wide Ring Gear
No Weights

APPLICATION | CODES
1970-76 B100-300, Charger, Cordoba, Coronet, D100-300, Imperial, New Yorker, Newport, Polara, Ramcharger, Town & Country 6 Cyl. & 318

CR10L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Thin Pads, Offset**

NOTES
Non Lock Up
1700-2000 Stall
130T Wide Ring Gear
No Weights

APPLICATION | CODES
1977-91 3.7L, 5.2L, 225 & 318 engine
Green Low Stall Sticker

TSB: **1, 172**

CR10H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Thin Pads, Offset**

NOTES
Non Lock Up
2100-2400 Stall
130T Wide Ring Gear
No Weights

APPLICATION | CODES
1977-91 3.7L, 5.2L, 225 & 318 engine
Red or Orange High Stall Sticker

TSB: **1, 172**

CR10HP-11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
2400-2600 Stall
130T Wide Ring Gear
Specify Engine for Correct Weights

APPLICATION | CODES
High Performance

CR10HP-10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (10")	**1.810"**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
3000-3400 Stall
130T Wide Ring Gear
Specify Engine for Correct Weights

APPLICATION | CODES
High Performance

CR66

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**24**	**4 Pads, Offset**

NOTES
Non Lock Up
2100-2400 Stall
130T Wide Ring Gear
No Weights

APPLICATION | CODES
1992-95 B150-350, B1500-2500 5.2L

TSB: **1, 172**

CR92

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**24**	**4 Pads, 90°**

NOTES
Non Lock Up
High Stall (144k)
130T Wide Ring Gear
No Weights

APPLICATION | CODES
1996-Up B1500-2500 5.2L

TSB: **1, 172**

CR22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**24**	**4 Thick Pads, Offset**

NOTES
Non Lock Up
1800-2100 Stall
130T Wide Ring Gear
Two .88” x .62” x .177” Weights

APPLICATION | CODES
1969-73 340 w/ Cast or Forged Crank

CR21

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**24**	**4 Thick Pads, Offset**

NOTES
Non Lock Up
1800-2100 Stall
130T Wide Ring Gear
Two 1.40” x .75” x .250” Weights

APPLICATION | CODES
1973-76 400, 440 Cast or Forged Crank

CR20

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**24**	**4 Thick Pads, Offset**

NOTES
Non Lock Up
2000-2200 Stall
130T Wide Ring Gear
Two 1.62” x .75” x .380”Weights

APPLICATION | CODES
1973-76 360 Engine

CHRYSLER
A727, TF8 (WIDE GEAR, NON LOCK UP)

CR23L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**24**	**4 Pads, Offset**

NOTES

Non Lock Up
1900-2100 Stall
130T Wide Ring Gear
1.175” Tall Butterfly Weight

APPLICATION | CODES

1977-91 6.6L, 7.2L, 400 Engine

TSB: **1, 172**

CR23H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**24**	**4 Pads, Offset**

NOTES

Non Lock Up
2400-2600 Stall
130T Wide Ring Gear
1.175” Tall Butterfly Weight

APPLICATION | CODES

1977-91 6.6L, 7.2L, 400 Engine

TSB: **1, 172**

CR25L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**24**	**4 Thin Pads, Offset**

NOTES

Non Lock Up
1800-2100 Stall
130T Wide Ring Gear
1.375” or 1.545” Tall Butterfly Weight

APPLICATION | CODES

1977-91 5.9L, 360 Engine

TSB: **1, 172**

CR25H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**24**	**4 Thin Pads, Offset**

NOTES

Non Lock Up
2200-2500 Stall
130T Wide Ring Gear
1.375” or 1.545” Tall Butterfly Weight

APPLICATION | CODES

1977-91 5.9L, 360 Engine

TSB: **1, 172**

CR11L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Pads, Offset

NOTES
Lock Up
Low Stall
130T Wide Ring Gear
No Weights

APPLICATION | CODES
1978-91 3.7L, 3.9L, 4.0L, 5.2L
Blue or White Low Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CR11H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Pads, Offset

NOTES
Lock Up
High Stall
130T Wide Ring Gear
No Weights

APPLICATION | CODES
1978-91 3.7L, 3.9L, 4.0L, 5.2L
Blue or White High Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CR24L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Thin Pads, Offset

NOTES
Lock Up
Low Stall
130T Wide Ring Gear
1.175" Tall Butterfly Weight

APPLICATION | CODES
1977-91 6.6L, 7.2L, 400 Engine
Red Low Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CR24H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Thin Pads, Offset

NOTES
Lock Up
High Stall
130T Wide Ring Gear
1.175" Tall Butterfly Weight

APPLICATION | CODES
1977-91 6.6L, 7.2L, 400 Engine
Red High Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CR26L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Pads, Offset

NOTES
Lock Up
Low Stall
130T Wide Ring Gear
1.375" or 1.545"
Tall Butterfly Weight

APPLICATION | CODES
1977-91 5.9L, 360 Engine
Red Low Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CR26H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	23	4 Pads, Offset

NOTES
Lock Up
High Stall
130T Wide Ring Gear
1.375" or 1.545"
Tall Butterfly Weight

APPLICATION | CODES
1977-91 5.9L, 360 Engine
Red High Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CHRYSLER
A904, TF6 (NO RING GEAR, NON LOCK UP)

KM2

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.25")	**.750"**	**27**	**3 Pads**

NOTES
Non Lock Up
Slotted Hub
No Inertia Ring

APPLICATION | CODES
1974-78 Colt, Arrow 1.6L

KM3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.25")	**.750"**	**27**	**3 Pads**

NOTES
Non Lock Up
Slotted Hub
w/ Inertia Ring

APPLICATION | CODES
1974-78 Colt, Arrow 2.6L

CR37

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.6")	**1.079"**	**23**	**3 Pads**

NOTES
Non Lock Up
Slotted Hub
No Inertia Ring

APPLICATION | CODES
1979-80 Colt, Arrow 1.4L, 1.6L

CR36

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.6")	**1.335"**	**23**	**3 Pads**

NOTES
Non Lock Up
Slotted Hub
No Inertia Ring

APPLICATION | CODES
1976-86 Colt, D50, Eagle, Ram 50, Postal Vehicles 2.0L, 2.5L, 2.6L

CR38

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.6")	**1.335"**	**23**	**3 Pads**

NOTES
Non Lock Up
Slotted Hub
w/ Inertia Ring

APPLICATION | CODES
1979-80 Colt, Arrow 2.6L

CR52L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
1700-2100 Stall

APPLICATION | CODES
1970-Up 4 Cyl., 6 Cyl.

Low Stall Sticker

TSB: **1, 172**

CR52H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
1900-2400 Stall

APPLICATION | CODES
1970-Up 4 Cyl., 6 Cyl.
High Stall Sticker

TSB: **1, 172**

J100

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.125")	**.825"**	**27**	**4 Pads, 90°**

NOTES
Non Lock Up
Slotted Hub
High Stall

APPLICATION | CODES
1985-Up AMC, Jeep 4 Cyl.
Made in West Germany

CR78

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
High Stall (145k)

APPLICATION | CODES
1988-92 Wrangler 4.0L

TSB: **1, 172**

CR68

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Flats On Hub
High Stall (145k)

APPLICATION | CODES
1993-Up Wrangler 4.0L

TSB: **1, 172**

CHRYSLER
A904, TF6 (NO RING GEAR, LOCK UP)

CR47

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	**1.335"**	**22**	**4 Pads, Offset**

NOTES
Lock Up
Flats on Hub
Med. Stall

APPLICATION | CODES
1988-95 Wrangler 2.5L, 1989-02 Dakota 2.5L, 1990-93 Ram 50 2.4L, 3.0L
002B, 146, 311, 388

TSB: **1, 9, 32, 37, 144, 172**

CR97

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	**1.335"**	**22**	**4 Pads, 90°**

NOTES
Lock Up
Flats on Hub
Med. Stall

APPLICATION | CODES
1996-05 Wrangler 2.5L

TSB: **1, 9, 32, 37, 144, 172**

J22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.125")	**.825"**	**26**	**4 Pads, 90°**

NOTES
Lock Up
Slotted Hub
Low Stall

APPLICATION | CODES
1984-87 AMC, Jeep Cherokee 6 Cyl.
Made in West Germany

TSB: **9, 32, 37, 144**

J23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.125")	**.825"**	**26**	**4 Pads, 90°**

NOTES
Lock Up
Slotted Hub
High Stall

APPLICATION | CODES
1984-87 AMC, Jeep Cherokee 4 Cyl.
Made in West Germany

TSB: **9, 32, 37, 144**

CR53L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**26**	**4 Pads, Offset**

NOTES
Lock Up
Slotted Hub
1700-2100 Stall

APPLICATION | CODES
1978-91 V8, Some 6 Cyl.
Red Low Stall Sticker

TSB: **1, 9, 32, 37, 144, 172**

CR53H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**26**	**4 Pads, Offset**

NOTES
Lock Up
Slotted Hub
1900-2400 Stall

APPLICATION | CODES
1978-91 4 Cyl., Some 6 Cyl.
White High Stall Sticker

TSB: **1, 9, 32, 37, 144, 172**

CR69

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**26**	**4 Pads, Offset**

NOTES
Lock Up
Flats on Hub
High Stall (166k)

APPLICATION | CODES
1992-05 Wrangler 4.0L

TSB: **1, 9, 32, 37, 144, 172**

CR90

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**26**	**4 Pads, 90°**

NOTES
Lock Up
Flats on Hub
High Stall (144k)

APPLICATION | CODES
1994-04 Grand Cherokee & Laredo 4.0L, 1996-05 Wrangler 4.0L
586, 596, 783, 784, 785, 795

TSB: **1, 9, 32, 37, 144, 172**

CHRYSLER
A904, TF6 (RING GEAR, NON LOCK UP)

CR1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.550"**	**18**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
Med. Stall
148T Gear, No Weights

APPLICATION | CODES
1960-E62 (18 Splines)

CR3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.550"**	**18**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
Med. Stall
122T Gear, No Weights

APPLICATION | CODES
L62-67 (18 Splines)

CR4

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.550"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
Med. Stall
122T Gear, No Weights

APPLICATION | CODES
1960-72 (27 Splines)

CR8L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
1700-2100 Stall
122T Gear, No Weights

APPLICATION | CODES
1968-76 Aspen, B100, B300, Charger, Diplomat, Monaco 3.7L, 5.2L, 5.9L, 225, 318
Low Stall Sticker

CR8H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Slotted Hub
1900-2400 Stall
122T Gear, No Weights

APPLICATION | CODES
1968-76 Aspen, B100, B300, Charger, Diplomat, Monaco 3.7L, 5.2L, 5.9L, 225, 318
High Stall Sticker

CR80

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.810"**	**27**	**4 Pads, Offset**

NOTES
Non Lock Up
Flats on Hub
Med. Stall
122T Gear, No Weights

APPLICATION | CODES
1993-95 B150, B250, B1500, B2500 3.9L V6

TSB: **1, 172**

CR79

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**27**	**4 Pads, Offset**

NOTES

Non Lock Up
Slotted Hub
2200-2400 Stall
122T Gear, No Weights
Replace w/ CR80 & Up-dated Pump

APPLICATION | CODES

1988-93 3.9L V6

TSB: **1, 172**

CR15L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**27**	**4 Pads, Offset**

NOTES

Non Lock Up
Slotted Hub
1600-1800 Stall
122T Gear, 1 Weight

APPLICATION | CODES

1977-91 Aspen, Charger, Monaco, New Yorker
5.2L, 5.9L, 360

Low Stall Sticker

TSB: **1, 172**

CR15H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**27**	**4 Pads, Offset**

NOTES

Non Lock Up
Slotted Hub
1800-2000 Stall
122T Gear, 1 Weight

APPLICATION | CODES

1977-91 Aspen, Charger, Monaco, New Yorker
5.2L, 5.9L, 360

High Stall Sticker

TSB: **1, 172**

CR13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.810”**	**27**	**4 Pads, Offset**

NOTES

Non Lock Up
Slotted Hub
1600-1800 Stall
122T Gear, 2 Weights

APPLICATION | CODES

1973-77 Aspen, Charger, Coronet, Dart, Monaco, Newport w/ 360 Engine

CHRYSLER
A904, TF6 (RING GEAR, LOCK UP)

CR9L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, Offset

NOTES
Lock Up
Slotted Hub
1700-2100 Stall
122T Gear, No Weights

APPLICATION | CODES
1978-93 3.7L, 3.9L, 5.2L, 225, 318

TSB: 1, 9, 32, 37, 144, 172

CR9H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, Offset

NOTES
Lock Up
Slotted Hub
1900-2400 Stall
122T Gear, No Weights

APPLICATION | CODES
1978-93 3.7L, 3.9L, 5.2L, 225, 318

TSB: 1, 9, 32, 37, 144, 172

CR16L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, Offset

NOTES
Lock Up
Slotted Hub
1700-2100 Stall
122T Gear, 1 Weight

APPLICATION | CODES
1978-93 5.9L, 360
Red Low Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CR16H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, Offset

NOTES
Lock Up
Slotted Hub
1900-2400 Stall
122T Gear, 1 Weight

APPLICATION | CODES
1978-93 5.9L, 360
Red High Stall Sticker

TSB: 1, 9, 32, 37, 144, 172

CR28

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, Offset

NOTES
Lock Up
Flats on Hub
High Stall
122T Gear, No Weights

APPLICATION | CODES
1984-95 B150-250, B1500-2500, D150-250, Dakota, Ram 1500 3.9L, 5.2L
White Sticker

TSB: 1, 9, 32, 37, 144, 172

CR91

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	1.810"	26	4 Pads, 90°

NOTES
Lock Up
Flats on Hub
2200-2500 Stall
122T Gear, No Weights

APPLICATION | CODES
1996-03 B1500-2500, Ram 1500-2500 Van 3.9L
White Sticker

TSB: 1, 9, 32, 37, 144, 172

KM9901

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.475” (10.7”)	**1.569”**	**24**	**6 Pads, 10mm x 1.25**

NOTES

Multi Disc Lock Up
Low Stall

APPLICATION | CODES

2005 Mitsubishi Cabover 4.7L, FUSO Box Truck

04G20, White Paint

CR9901

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
13.5” (12.25”)	**2.121”**	**24**	**6 Pads, 10mm x 1.5**

NOTES

Clutch Pack
Low Stall

APPLICATION | CODES

2007-Up Ram 3500 6.7L Diesel

07E14 A, White Paint

NOTES

TSB#	Symptom	Solution	Part #
1	Converter Drainback	Install Pressure Regulator Valve Kit (Oversized)	22741PAK
7	Converter Apply & Release Problems, Converter Codes	Replace TC Lock Up Clutch Regulator Valve Assembly	78741HRK
9	Lock Up Shudder, Soft TCC Apply	Replace Lock Up Valve Spring	A12741C-3
22	Lock Up Shudder During Lock Up Apply	Use Medium Stall Converter Instead Of Low Stall Converter	CR2
23	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Valve	D92540
24	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Valve (Splice Into Cooler Line)	D92540A
26	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Sure Cure Kit	S12174
32	Lock Up Shudder, Converter Overheat	Install Shift Correction Package	S22165
33	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Package	S22167
34	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Package	S22167A
35	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Kit (48RE Only)	S22167C
36	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Sure Cure Kit	S22174
37	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply	Replace 4 Spool Switch Valve	S22741A-1
38	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply	Replace 4 Spool Switch Valve (Oversized)	S22741AA-1
45	High Engine RPM Due To No Lock Up	Replace Lock Up Control Sleeve & Plunger Assembly	S33741GCK
46	Engine Stall On Engagement, Loss Of Lock Up, Increased RPM On Acceleration	Replace TCC Limit & Lube Valve Assembly	S33741GQK
76	Harsh Lock Up	Replace TCC Damper Valve & Sleeve Assembly	S68942-23K
77	Harsh TCC Engagement	Replace TCC Accumulator Valve Spring	S72741E-3
78	Converter Overheat, Low TCC Release Pressure	Replace TCC Limit Valve & Sleeve	S72741L-1
79	OEM Spring Breaks, Delayed Engagement, Engine Stall On Engagement	Replace TCC Limit Spring	S72741L-3
102	Converter Overheating	Replace Lubricating Pressure Control Valve Assembly	S78741P-1K
103	Converter Apply & Release Problems, Converter Codes	Replace TC Lock Up Clutch Regulator Valve Assembly	S78741QK
131	Lock Up Shudder & Failure, TCC Deflection & Lining Failure, Cooler Restriction Caused By Lining Material, Transmission or Converter Overheat	Install Sure Cure Kit	S92174

TSB#	Symptom	Solution	Part #
132	Erratic/No TCC, 2nd Gear Starts, Low/Reverse Switch Code, Worn Switch Valve Bore	Replace Solenoid Switch Valve Plug (Oversized)	S92741-2AK
133	Erratic/No TCC, 2nd Gear Starts, Low/Reverse Switch Code	Replace Solenoid Switch Valve Plug	S92741-2K
134	No TCC Apply, Wrong Gear Starts	Replace Solenoid Switch Valve Plug (Oversized)	S92741H-1
135	Lock Up Shudder & Failure, TCC Deflection & Lining Failure, Cooler Restriction Caused By Lining Material, Transmission/Converter Overheating	Replace Converter Regulator Valve Assembly	S92741PK
136	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Plug (1994-97 w/ Internal Bypass Valve)	S92761B-6
144	Lock Up Shudder, Converter Overheat, Converter Drainback, Engine Stall In Reverse	Install Shift Kit®	T22165
145	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Kit® (Gas & Diesel)	T22165B
146	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Kit®	T22167
147	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Reprogramming Kit™	T22169B
159	Harsh TCC Engagement, 2-3 Neutral, Drainback	Install Shift Kit®	T72165
160	Harsh TCC Engagement, 2-3 Neutral, Drainback	Install Reprogramming Kit™	T72169
172	Converter Drainback	Install Pressure Regulator Valve Kit	S22741P
177	Erratic TCC, No TCC, Low/Reverse Switch Code	Install Solenoid Switch Valve Plug Kit (Oversized)	S92741H

AISIN WARNER
AW 50-40LE, 50-42LE

VO28

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9.5")	**.825"**	**26**	**6 Pads, .340" Tall**

NOTES
Lock Up
Med. Stall
1.25" Tall Pilot

APPLICATION | CODES
1993-97 Volvo 850 2.3L, 2.4L
40A020, Q2, HO6, 16U

TO67

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (9")	**.825"**	**26**	**6 Pads, 1" Tall**

NOTES
Lock Up
1.75" Tall Pilot

APPLICATION | CODES
1989-Up Saab 9-3, 9-5
40A010, C8K19, VK09N

TO69

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (9.34")	**.825"**	**26**	**6 Pads, .210" Tall**

NOTES
Lock Up
1.25" Tall Pilot

APPLICATION | CODES
1989-Up Saab 9-3, 9-5
40A030

TO69B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (9.375")	**.825"**	**26**	**6 Pads, .320" Tall**

NOTES
Lock Up
Med. Stall
1.00" Tall Pilot

APPLICATION | CODES
1999-Up Saab 9-3 2.0L Turbo
40A600, XJ25N

VO31

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.25")	**.825"**	**26**	**6 Pads, .340" Tall**

NOTES
Lock Up
Low Stall
1.30" Tall Pilot

APPLICATION | CODES
1989-Up Saab 9-3, 9-5
42A010, 42A020, Q2, HO6, 16U

TO68

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.2” (9.6”)	.825”	20	6 Pads, 8mm x 1.25

NOTES
Lock Up
Low Stall
1.30” Tall Pilot
.320” Tall Pads

APPLICATION | CODES
2002-Up Volvo S60 2.4L Turbo, S70
Y51, 43A012, 43A020, 43A021, 43A030, 43A220, 433

TO8901

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.15” (9.625”)	.825”	26	6 Pads, 10mm x 1.5

NOTES
Lock Up
Low Stall
.520” Thick Pads

APPLICATION | CODES
2000-05 Kia Carnival
42A040, 4204, 03

TO8902

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.3” (8.375”)	.825”	20	6 Pads, 8mm x 1.25

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
2007-07 Suzuki Aerio, Forenza 2.3L
40A930, I02

TO8903

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3” (8.375”)	.825”	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
High Stall

APPLICATION | CODES
2006-11 Suzuki SX4 2.0L
40B060, 14L, 16U

AISIN WARNER
AW 55-50SN, 55-51SN

TO77

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.2" (9")	.810"	20	6 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2004-06 Maxima SE 3.5L, 05-06 Altima 3.5L

433, Y51, 437, 43A260, 43A261

TSB: 21, 128, 129, 130, 168, 178

TO79L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.375")	.825"	20	3 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2005-07 Chevy Equinox 3.4L, 2003-04 Some Saturn ION, 02-03 Vue 3.0L

433, YOP, 43A160, AF33-5, 2E00192, Green Dot

TSB: 21, 128, 129, 130, 168, 178

TO79

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.375")	.825"	20	3 Pads

NOTES
Lock Up
High Stall

APPLICATION | CODES
2003-04 Some Saturn ION

43A120, YO, 434

TSB: 21, 128, 129, 130, 168, 178

TO78

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.188" (9.25")	.825"	20	6 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2003-07 Some Saab 9-3, 9-5

43A080, 43A090, Y51, 431, 433

TSB: 21, 128, 129, 130, 168, 178

TO68

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.2" (9.6")	.825"	20	6 Pads, 8mm x 1.25

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2002-Up Volvo S60 2.4L Turbo, S70

Y51, 431, 433, 43A012, 43A020, 43A021, 43A030, 43A220, 43A240, Blue Dot

TSB: 21, 128, 129, 130, 168, 178

VO28

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9.5")	.825"	26	6 Pads, .340" Tall

NOTES
Lock Up
Med. Stall
1.25" Tall Pilot

APPLICATION | CODES
Volvo 850 2.3L, 2.4L

40A020, Q2, HO6, 16U

TSB: 21, 128, 129, 130, 168, 178

TO62

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.625” (8.4”)	**.825”**	**16**	**6 Pads, 8mm x 1.25**

NOTES	APPLICATION | CODES
Lock Up **Med. to High Stall**	**1995-02 Suzuki Esteem 1.6L, 1.8L** **30A260, 30A340, 60A080**

TO62A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.625” (8.4”)	**.825”**	**16**	**6 Pads**

NOTES	APPLICATION | CODES
Lock Up **Med. to High Stall**	**2003-Up Aerio 2.0L** **30A340**

NOTES

GM1991	DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
	9.2” (8.875”)	**.825”**	**16**	**3 Pads, 10mmx1.25**
	NOTES **Lock Up** **Med. Stall**	APPLICATION | CODES **2006-11 Aveo 1.4L** **61A100, 2, 603**		

NOTES

TO61B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5" (9.631")	**.785"**	**20**	**4 Pads**

NOTES	APPLICATION | CODES
Lock Up **Low Stall**	**2000-01 Mitsubishi FUSO Diesel**

TO61

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5" (10.75")	**1.572"**	**20**	**6 Pads**

NOTES	APPLICATION | CODES
Lock Up **Low Stall**	**1987-04 Isuzu NPR Truck (Cab Over) 4 Cyl. Diesel** **5E11U**

TO63

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.5" (10.69")	**1.257"**	**20**	**6 Pads, 10mm x 1.25**

NOTES	APPLICATION | CODES
Lock Up **Low Stall**	**1999-Up Nissan (Cab Over Engine) 4 Cyl. Diesel** **Orange Paint Spots**

NOTES

TRANSMISSION CODES

Unit	Code
01F	ZF4HP18
01J	Audi CVT
01L	ZF5HP24
01V	ZF5HP19
03-70	A42D
03-70L	A42DL
03-70LE	A42DE
03-71	A43D
03-71L	A43DL
03-71LE	A43DE
03-72L	A44DL
03-72LE	A44DE
09A	JF506E
09D	TR60SN
09E	ZF6HP26
09G	TF60SN
09L	ZF6HP19
125, 125C	3T40
125, 125C	M34, MD9
180, 180C	3L30
180, 180C	MD2, MD3
200, 200C	M29, MV9
200-4R	MW9
250, 250C	M31
2ML70	M99
30-40LE	AW4
30RH	A904
30TH	A404
31RH	A998
31TH	A413, 470, 670
325, 325-4L	M57
32RH	A999
350, 350C	M38, MV4, MX2
36RH	A727
37RH	A727
3L30	180, 180C
3L80	400
3T40	125, 125C
400	3L80
400	M40
40RH	A500
40TE	A604
41AE	A604
41TE	A604
41TES	A604
42LE	A606
42RE	A500
42RH	A500
440-T4	4T60
440-T4	ME9
44RE	A500
46RE	A518
46RH	A518
47RE	A618
47RH	A618
4EAT	Subaru 4 Spd
4F20E	RE4F04A
4F27E	FN4A-EL
4F50N	AX4N
4L30E	ML4
4L60	700-R4
4L60E	M30, M33

Unit	Code
4L65E	M32
4L70E	M70
4L80E	MT1
4L85E	MN8
4R70W	AODEW
4T40E	MN4
4T45E	ME7
4T45E	MN5
4T60	440-T4
4T60E	M13
4T65E	M76
4T65E	MN3
4T65E	MN7
4T80E	MH1
5EAT	Subaru 5 Spd
5L40E	M82
5L40E	MX5
5L50E	M22
5L50E	MV3
5R110W	TORQSHIFT
5R55S	5R55W
5R55W	5R55S
5T50E	M84
6L45	MYA
6L50	MYB
6L80	MYC
6L90	LY6
6L90	MYD
6T40	MH8
6T40	X23F
6T45	MH7
6T70	MH2
6T70	MH4
700-R4	4L60
700-R4	MD8
722.3	W4A040
722.4	W4A020
722.6	NAG1
722.6	W5A180
722.6	W5A330
722.6	W5A380
722.6	W5A580
722.6	W5A900
722.6	W5J400
722.9	NAG2
722.9	W7A700
722.9	W7B700
722.9	W7X550
A131	MX1
A210	MX17
A404	30TH
A413, A470	31TH
A42DE	03-70LE
A43DE	03-71LE
A44DE	03-72LE
A44DL	03-72L
A45X	AS68RC
A465	AS68RC
A500	40RH
A500	42RE
A500	44RE
A518	46RE

Unit	Code
A518	46RH
A5SR1	RE5R05A
A5SR2	RE5R05A
A604	40TE
A604	41AE
A604	41TE
A606	42LE
A618	47RE
A670	31TH
A727	36RH
A904	30RH
A998	31RH
A999	32RH
AF13	AW60-40LE
AF14	AW50-40LE
AF17	AW60-41SN
AF20	M92
AF21	TF-81SC
AF22	AW50-42LE
AF22	M93
AF33-5	AW55-50SN
AF33	M09
AF33	M45
AF40-6	TF-80SC
AF40	MXE
AF40	TF-80SC
AF55	ML3
AHS-T	2ML70
AL4	DPO
AODEW	4R70W
AOD	FIOD
AS68RC	A45X
AS68RC	A465
Audi CVT	01J
AVEO	AW80/81
AVEO	U440
AW4	A340
AW50-40LE	AF14
AW50-40LE	AF14-20
AW50-42LE	AF22
AW55-50SN	AF33-5
AW55-50SN	RE5F22A
AW60-40LE	AF13
AW60-40LE	M91
AW60-40LE	MC7
AW60-41SN	AF17
AW6A-EL	TF-81SC
AW80/81	AVEO
AW80/81	U440
AW80-40LE	MLQ
AX4N	4F50N
AX4S	AXODE
AXODE	AX4S
CD4E	LA4A-EL
CVTPSE	HD-10
DPO	AL4
EC8	Subaru 4 Spd
F3A21-2	KM171-5
F3A22-2	KM172-5
F3A	KF100
F3A	MX-1
F4A21-2	KM176-5

Unit	Code
F4A21-1	KM176-5
F4A22-1	KM175-5
F4A22-2	KM175-5
F4A23-1	KM177-8
F4A23-2	KM177-8
F4A32	A4AF1
F4A32	A4AF2
F4A32	A4AF3
F4A32	A4BF1
F4A32	A4BF2
F4A41	F4A4B
F4A42	F4A4B
F4A4B	F4A41
F4A4B	F4A42
F4A51	F4A5A
F4A5A	F4A51
F4A-EL	F4EAT
F4A-EL	F4E-III
F5A51	F5A5A
F5A5A	F5A51
FIOD	AOD
FN4A-EL	4F27E
FNR5	FS5A-EL
FS5A-EL	FNR5
HD-10	CVTPSE
JA5A-EL	JF506E
JF009E	RE0F08A
JF010E	RE0F09A
JF011E	RE0F10A
JF506E	09A
JF506E	JA5A-EL
JF506E	RE5F01A
JF613E	F6AJA
JR405E	RC4A-EL
JR502E	RE5R01A
JR507E	RE5R05A
KF100	F3A
KM171-5	F3A21-2
KM172-5	F3A22-2
KM175-5	F4A22-1
KM175-5	F4A22-2
KM176-5	F4A21-2
KM177-8	F4A23-1
KM177-8	F4A23-2
L4N71B	N4A-EL
LA4A-EL	CD4E
LT1000	M74
LT1000	MW7
LT2400	MTW
LY6	6L90
M09	AF33
M13	4T60E
M15	4T65E
M22	5L50E
M29	200, 200C
M30	4L60E
M31	250, 250C
M32	4L65E
M33	4L60E
M34	125, 125C
M35	Powerglide
M38	350, 350C

Unit	Code
M40	400
M41	Subaru 3 Spd
M45	AF33
M57	325, 325-4L
M70	4L70E
M74	LT1000
M75	VT-20
M76	4T65E
M82	5L40E
M83	VT-20
M84	5T50E
M91	AW60-40LE
M92	AF20
M93	AF22
M99	2ML70
MC7	AW60-40LE
MD2	180, 180C
MD3	180, 180C
MD8	700-R4
MD9	125, 125C
ME7	4T45E
ME9	440-T4
MH1	4T80E
MH2	6T70
MH4	6T70
MH7	6T45
MH8	6T40
ML3	AF55
ML4	4L30E
MLQ	AW80-40LE
MN3	4T65E
MN4	4T40E
MN5	4T45E
MN7	4T65E
MN8	4L85E
MP6	TAAT
MP7	TAAT
MS7	A240
MT1	4L80E
MTW	LT2400
MV3	5L50E
MV4	350, 350C
MV9	200, 200C
MW7	LT1000
MW9	200-4R
MX17	A210
MX1	A131
MX-1	F3A
MX2	350, 350C
MX5	5L40E
MXE	AF40
MYA	6L45
MYB	6L50
MYC	6L80
MYD	6L90
N4A-EL	L4N71B
NAG1	722.6
NAG2	722.9
Powerglide	M35
R4A-EL	RE4R01A
R4AX-EL	Subaru 4 Spd
RC4A-EL	JR405E

Unit	Code
RE0F08A	JF009E
RE0F09A	JF010E
RE0F10A	JF011E
RE4F04A	4F20E
RE4F04A	LJ4A-EL
RE4R01A	JR402E
RE4R03A	RG4R01A
RE5F01A	JF506E
RE5F22A	AW55-50SN
RE5R01A	JR502E
RE5R05A	A5SR1
RE5R05A	A5SR2
RE5R05A	JR507E
RG4R01A	RE4R03A
RNJ	AW450-43LE
SJ6A-EL	A760E
Subaru 3 Spd	M41
Subaru 4 Spd	4EAT
Subaru 4 Spd	EC8
Subaru 4 Spd	R4AX-EL
Subaru 5 Spd	5EAT
TAAT	MP6
TAAT	MP7
TF-60SN	09G
TF-80SC	AF40-6
TF-81SC	AF21
TF-81SC	AW6A-EL
TORQSHIFT	5R110W
TR60SN	09D
VT-20	M75
VT-20	M83
VT25-E	VTi
VTi	VT25-E
VW095	01M
VW096	01M
VW097	01N
VW098	01P
W4A020	722.4
W4A040	722.3
W4A42	W4A4B
W4A4B	W4A42
W4A51	W4A5A
W4A5A	W4A51
W5A180	722.6
W5A330	722.6
W5A380	722.6
W5A580	722.6
W5A900	722.6
W5J400	722.6
W7A700	722.9
W7B700	722.9
W7X550	722.9
X23F	6T40
ZF4HP18	01F
ZF5HP19	01V
ZF5HP24	01L
ZF6HP19	09L
ZF6HP26	09E

HONDA
CODE CHART

Codes	Part
04	HO3000
04	HO3001
13	HO57
15	HO57
19257717	HO82
215	HO69
216	HO69
24020031	GM24-6
24200145	GM85
24200319	GM24-6
24210705	GM24-6
24210708	GM24-6H
24210713	GM24-6H
24210715	GM24-6H
24210868	GM87
24210869	GM87
24211068	GM87
24211228	GM87
24211228	GM87CW
24211229	GM87
24211229	GM87CW
24213406	GM87CW
24213496	GM87CW
24220869	GM87CW
25	HO63
25	HO80
25AR	HO63
25AR	HO80
27	HO62
27M	HO62
27N	HO62
2N	HO60
3	HO58
3K	HO65
4	HO66
4	HO77
4	HO79
45	HO61
45H	HO61
4A3	HO69
4A3	HO80
4B0	HO66
4B1	HO55
4B6	HO66
4BC	HO66
4BO	HO66
4F	HO61
4M	HO66
4M	HO77
5	HO62
5	HO71
5	HO79

Codes	Part
59	HO59
5GA	HO68
5M	HO77
6	HO72
6	HO80
602019	HO80
602019E2-P8F	HO80
61	HO61
68	HO68
6AA	HO72
7	HO59
7	HO66
749	GM87
8	HO58
8	HO61
8680189	GM24
8681486	GM85
8b	HO77
8b	HO78
8C	HO79
8F	HO80
8FC2X	HO80
8P	HO80
8V21A93	HO80
96041998	GM87
A	HO56
A	HO64
A	HO69
A24A	HO69
A2YA	HO69
A4RA	HO69
A4RNA	HO3003
A5P72	HO69
A6VA	HO72
A8	HO64
AA0	HO72
AB	HO64
AB	HO69
AJ	HO55
AK	HO55
AL	HO64
AOYA	HO72
APX4	HO66
AS	HO55
AS	HO59
AYA	HO72
B	HO59
B	HO61
B	HO64
B	HO69
B	HO71
b	HO72

Codes	Part
b	HO78
B05	HO79
B36A	HO3000
B36A	HO3001
B3X	HO72
B3X06A3	HO72
B46A	HO69
B4H	HO72
B4H23A2	HO72
B4RA	HO69
B5	HO79
B5B	HO72
B5BM	HO72
b6	HO69
B6K	HO78
B6K29A7	HO78
B6VA	HO77
B7GA	HO80
B7MA	HO69
B7MAJB4	HO69
B7TA	HO80
B7UA	HO80
B7VA	HO80
B7WA	HO80
B7XA	HO79
B7YA	HO80
BA	HO68
BA	HO69
BA	HO78
BAA	HO81
BAXA	HO66
BAXA	HO77
BAXA	HO78
BAXA	HO79
BAYA	HO79
BAYA2	HO79
BB	HO69
BCA	HO77
BCLA	HO81
BDGA	HO80
BDKA	HO82
BGFA	HO80
BGHA	HO80
BGRA	HO80
BJE	HO69
BJFA	HO3001
BMXA	HO69
BO5	HO79
BOYA	HO72
BVGA	HO80
BVGA	HO82
BVLA	HO3001

Codes	Part
BWEA	HO3001
BYBA	HO80
BZKA	HO81
C	HO61
C	HO67
C1A	HO69
C2X17B17	HO80
C7X	HO79
C8	HO64
C8C	HO78
C8C12144	HO78
C8C121A4	HO78
CA	HO56
CA	HO58
CA	HO78
CAO	HO69
E	HO56
E	HO60
E11B	HO69
E2	HO80
E2-P8F	HO80
E7E	HO79
EA	HO77
EH2	HO72
EH23A	HO72
F	HO58
F4	HO60
F4	HO61
FB-6	HO66
FBAA	HO72
FBO	HO66
FEA	HO77
FM4	HO61
G4	HO63
GA	HO77
GLLCXT	HO3000
GMA	HO3001
GO4	HO66
GPLA	HO81
GPPA	HO81
H13	HO56
H15	HO56
H16	HO56
H16C	HO56
H2	HO3002
H57	GM24-6
HAM	HO56
HI	HO81
HI3	HO56
HI6	HO56
HK2	HO56
HK3	HO56

Codes	Part
HX15BA	HO77
I	HO72
J	HO61
J	HO64
J	HO66
J	HO79
JB4	HO69
K	HO63
K	HO80
K1	HO63
K1	HO65
K2	HO65
K3	HO65
K4	HO65
L	HO66
L	HO74
L15	HO64
L16	HO64
L4	HO64
L5	HO62
LJ	HO79
M	HO61
M	HO65
M	HO66
M	HO77
M1WA	HO71
M24A	HO69
M4	HO66
M4RA	HO69
M4TA	HO69
M5DA	HO68
M5HA	HO68
M6HA	HO77
M6HA	HO79
M7WA	HO80
M7ZA	HO79
MAXA	HO77
MAXA	HO78
MCTA	HO81
MCVA	HO81
MDKA	HO82
MDLA	HO69
MDMA	HO69
MDPA	HO82
MDRA	HO82
MDWA	HO66
MDWA	HO77
MGHA	HO80
MJBA	HO3002
MJBA	HO82
MKZA	HO81
ML4A	HO64

Codes	Part
MOYA	HO72
MP1A	HO77
MP7A	HO69
MPCA	HO3003
MPJA	HO77
MPOA	HO72
MPRA	HO66
MPSA	HO64
MPWA	HO66
MPWA	HO71
MPXA	HO66
MPYA	HO68
MPZA	HO79
MR9A	HO74
MRMA	HO81
MRVA	HO81
MY8A	HO65
MYBA	HO66
MZHA	HO81
MZKA	HO81
N	HO62
N0	HO55
NA	HO81
ND	HO81
NO	HO55
ON	HO55
OX1	HO80
OX17C6	HO80
P	HO65
P1	HO64
P36A	HO3000
P36A	HO3001
P4	HO55
P5	HO69
P56	HO69
P5A	HO68
P5G	HO68
P5M	HO77
P5N	HO66
P5PM	HO77
P72	HO69
P8A	HO79
P8C	HO79
P8F	HO80
PAA	HO78
PAA	HO79
PCA	HO78
PEA	HO78
PEF	HO80
PFW	HO79
PG	HO80
PGC	HO80

Codes	Part
PGK	HO80
PH4	HO61
PH4.5	HO61
PI	HO64
PL1	HO71
PL5	HO62
PL5X	HO62
PLM	HO68
PLM	HO69
PN	HO81
PN276580	HO81
PN276581	HO81
PNA	HO81
PO	HO79
POG	HO79
PP	HO72
PP	HO81
PPF	HO81
PR	HO74
PVJ	HO82
PW4	HO71
PW5	HO71
PW7	HO71
PWA	HO71
PX4B	HO66
PX4B	HO77
PXL5	HO62
PY8A	HO65
q	HO72
q	HO78
R	HO59
R	HO68
R	HO71
R1	HO3002
R18	HO67
RA	HO72
RA	HO81
RAA	HO81
RAC	HO81
RAD	HO81
RBB	HO81
RBJ	HO81
RD	HO82
RDA	HO80
RDJ	HO82
RDJRD	HO82
RGL	HO80
RGLH	HO80
RGLY	HO3001
RGM	HO80
RGMY	HO3001
RJ	HO3002

Codes	Part
RJ	HO82
RJA	HO3002
RJE	HO3001
RN	HO3003
RNA	HO3003
RNN	HO3003
RO	HO67
RPP	HO81
RWC	HO3001
RWC5	HO3001
RYP	HO3001
S15	HO64
S16	HO64
S4XA	HO66
S5	HO64
SDMA	HO69
SE	GM24
SE9P	GM24
SELP	GM24
SF	GM24
SF	GM85
SF6X	GM24
SFHE	GM85
SFHT	GM85
SFL7	GM85
SFLP	GM24
SFLT	GM85
SGHB	GM24-6
SGHH	GM24-6
SGHR	GM24-6
SJ	GM24
SJ9K	GM24
SJHR	GM24-6H
SJHS	GM24
SJLP	GM24
SLF7	GM85
SLXA	HO69
SP7A	HO69
SPCA	HO3003
SPLT	GM85
T	HO72
T	HO74
U	HO79
U15	HO79
Y	HO71
Y4	HO68
Y8	HO65
YCA	HO77

HONDA
NO RING GEAR TO 107T RING GEAR

HO68

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.875")	**.945"**	**23**	**6 Pads**

NOTES
No Ring Gear
Clockwise Stator
Threaded Pads
39 T, 1.55" OD Hub
O-Ring Not Included

APPLICATION | CODES
1991-96 Legend 3.2L, 1996-04 3.2TL, 3.5RL
BA, M5DA, MPYA, PLM, Y4

HO71

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.965" (9.379")	**.945"**	**19**	**8 Holes**

NOTES
No Ring Gear
Counter Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1992-94 Vigor 2.5L, 1995-98 Acura 2.5 TL
MPWA, M1WA, PL1, PW4, PW7

HO55

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	**.945"**	**19**	**8 Holes**

NOTES
103T Gear
Counter Clockwise Stator
Threaded Mount Ring
36 T, 1.43" OD Hub
O-Ring Not Included

APPLICATION | CODES
1980-85 Accord, 1984-87 Prelude exc F.I.
AJ, AK, AS, NO, ON, P4

TSB: **170**

HO56

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	**.945"**	**19**	**8 Holes, 6mm x 1.0**

NOTES
103T Gear
Counter Clockwise Stator
Threaded Mount Ring
36 T, 1.43" OD Hub
O-Ring Not Included

APPLICATION | CODES
1986-87 Civic 1.5L, CRX 1.5L, Integra 1.6L
CA, HAM, H15, HK2

TSB: **170**

HO59

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	**.945"**	**19**	**8 Holes**

NOTES
103T Gear
Counter Clockwise Stator
Threaded Mount Ring
36 T, 1.43" OD Hub
O-Ring Not Included

APPLICATION | CODES
1983-85 Prelude 1.8L
AS, 59

HO57

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	.945"	19	8 Holes

NOTES
103T Gear
Counter Clockwise Stator
Threaded Mount Ring
36 T, 1.43" OD Hub
O-Ring Not Included

APPLICATION | CODES
1981-85 Civic, CRX 1.5L
13, 15

TSB: 170

HO58

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	.945"	19	8 Holes

NOTES
103T Gear
Counter Clockwise Stator
Threaded Mount Ring
36 T, 1.43" OD Hub
O-Ring Not Included

APPLICATION | CODES
1986-87 Civic, CRX 1.5L
CA

TSB: 170

HO60

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	.945"	22	8 Holes

NOTES
103T Gear
Counter Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1985-86 Accord, Prelude w/ F.I.
F4

HO61

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	.945"	22	8 Holes

NOTES
103T Gear
Counter Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1986-89 Accord 2.0L, 1985-87 Prelude 2.0L F.I.
F4

TSB: 170

HO64

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	.945"	19	8 Holes

NOTES
103T Gear
Counter Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1988-89 Integra 1.6L, 1988-91 Civic 1.6L
L4, ML4A, MPSA, P1, S5

TSB: 170

HO65

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (10.25")	.945"	22	8 Holes

NOTES
107T Gear
Counter Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1988-91 Prelude 2.0L
K4, PY8A, MY8A

TSB: 170

HONDA
109T TO 114T RING GEAR

HO69

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	**.945"**	**22**	**8 Holes**

NOTES
109T Gear
Counter Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1994-98 Integra, 92-97 Del Sol, 97-98 CR-V, 92-05 Civic
A2YA, A24A, A4RA, B46A, B4RA, BMXA, M24A, M4RA, M4TA, MP7A, MDLA, MDMA, SDMA, SLXA, SP7A
TSB: **170**

HO72

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.625" (9.865")	**.945"**	**22**	**8 Holes**

NOTES
114T Gear
Counter Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1994-97 Accord 1.8L, 2.2L, 1996-97 2.2CL
AOYA, A6VA, BOYA, MPOA

HO66

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.063" (10.25")	**.945"**	**22**	**8 Holes, 6mm x 1.0**

NOTES
114T Gear
Counter Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1989-93 Accord, 1992 Prelude, 91-98 Integra
APX4, PX4B, MPRA, MPXA, MPWA, MYBA, S4XA
TSB: **170**

HO78

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.063" (10.25")	**.945"**	**22**	**8 Holes, 6mm x 1.0**

NOTES
114T Gear x .275"
Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1998-Up Accord 4 Cyl
BAXA, MAXA, PAA, PCA, PEA
TSB: **170**

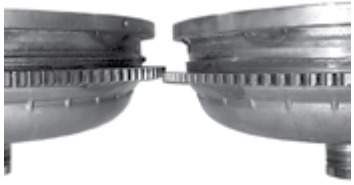
HO77

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.063" (10.25")	**.945"**	**22**	**8 Holes, 6mm x 1.0**

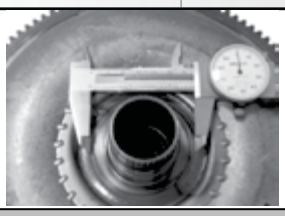
NOTES
114T Gear x .350"
Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1997-Up Prelude 4 Cyl, Acura 2.3CL, 1995-98 Odyssey, Oasis 2.2L
5M, BAXA, B6VA, EA, FEA, MAXA, MDWA, MPJA, MP1A, PX4B
TSB: **170**

HO77 - .355" Thick Ring Gear



HO78 - .275" Thick Ring Gear



HO77 - 2.600" Flanged Impeller Hub

HO78 - 3.075" Flanged Impeller Hub

HO67

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	**.945"**	**22**	**8 Holes**

NOTES
114T Gear
Counter Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1990-93 Integra 3.8L
RO, R18

HO63

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (10.875")	**.945"**	**22**	**8 Holes**

NOTES
114T Gear
Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1986-87 Legend 2.5L
G4

TSB: **170**

HO62

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (10.875")	**.945"**	**22**	**8 Holes**

NOTES
114T Gear
Clockwise Stator
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1987-90 Legend 2.7L, Sterling
L5, PL5X

TSB: **170**

HONDA
118T TO 121T RING GEAR

HO74

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (11.25")	**.945"**	**23**	**8 Holes, 6mm x 1.25**

NOTES
118T Gear
Threaded Mount Ring
39 T, 1.55" OD Hub
O-Ring Not Included

APPLICATION | CODES
1991-05 NSX 3.0L
MR9A

TSB: **170**

HO81

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (10.8")	**.945"**	**22**	**8 Holes, 6mm x 1.0**

NOTES
119T Gear
Clockwise Stator
Threaded Ring Gear
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
2002-06 RSX 2.0L, Accord 2.4L, Element 2.4L, 2004-08 TSX 2.4L
BAA, BCLA, BZKA, MCTA, MRMA, MZHA, MZKA, RA

TSB: **170**

HO79

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (10.875")	**.945"**	**22**	**8 Holes, 6mm x 1.0**

NOTES
121T Gear
Threaded Mount Ring
38 T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
1997-02 Accord V6, 1992-98 Prelude, 1996-99 3.0CL
8C, BAYA, B7XA, MPZA, M6HA, M7ZA, POG, PFW

TSB: **170, 171**

HO80

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (11.25")	**.945"**	**22**	**8 Holes, 6mm x 1.0**

NOTES
121T Gear
Clockwise Stator
Threaded Mount Ring
38T, 1.52" OD Hub
O-Ring Not Included

APPLICATION | CODES
99-04 Odyssey 3.5L, 04-08 3.2TL, 01-02 MDX, 03-06 Pilot
8F, B7GA, B7TA, B7UA, B7VA, B7WA, B7YA, BDGA, BGFA, BGHA, BGRA, BYBA, BVGA, M7WA, MGHA, RDA, RGL

TSB: **170, 171**

HO82

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25” (12”)	.945”	22	8 Holes, 6mm x 1.0

NOTES
131T Gear
Clockwise Stator
Threaded Ring Gear
39T, 1.810”-1.652” OD Hub
O-Ring Not Included
Replaces HO3002

APPLICATION | CODES
2003-06 MDX 3.5L, 2005-11 RL 3.5L, VUE Does Not Fit Ridgeline

BDKA, MDKA, MDPA, MDRA, MJBA, RD, RDJ, RJ, RJA

TSB: 171, 189

HO3001

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25” (12”)	.945”	22	8 Holes, 6mm x 1.0

NOTES
131T Gear
Clockwise Stator
Threaded Ring Gear
39T, 1.810”-1.652” OD Hub
O-Ring Not Included

APPLICATION | CODES
2007-11 RDX 2.3L

BWEA, BVLA, GMA, RJE, RWC, RGMY, RYP

TSB: 170, 189

HO3003

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.625” (10.5”)	.945”	22	8 Holes, 6mm x 1.0

NOTES
131T Gear
Clockwise Stator
Threaded Ring Gear
38T, 1.732”-1.573” OD Hub
O-Ring Not Included

APPLICATION | CODES
2006-10 Civic 1.8L, 2.0L

MPCA, RNA, SPCA

TSB: 170

HO3000

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25” (12”)	.945”	22	8 Holes, 6mm x 1.0

NOTES
131T Gear
Clockwise Stator
Threaded Ring Gear
39T, 1.810”-1.612” OD Hub
O-Ring Not Included

APPLICATION | CODES
2007-11 Odyssey 3.5L

04, B36A, GLLCXT, P36A

TSB: 189

KM10HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Holes

NOTES
Lock Up
106T Ring Gear

APPLICATION | CODES
KM Series, 1991-95 Elantra, 1989-90 Laser, 1990-98 Sonata
51, 56, S2, S4, Some X4

TSB: 104

KM11HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Pads

NOTES
Lock Up
106T Ring Gear

APPLICATION | CODES
KM Series
71, P2, W2, H2, Some X4

TSB: 104

KM12BHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Holes, 10mm x 1.25

NOTES
Lock Up
M464MB Bolts
2200-2800 Stall
106T Ring Gear

APPLICATION | CODES
KM Series, 1986-01 Accent, Elantra, Sonata, Tiburon
33, 54, 56, 68, b3, b4, b5, F2, 1F, 1Q, HQ, RM

TSB: 104

KM12HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Holes, 10mm x 1.5

NOTES
Lock Up
M464MA Bolts
2200-2800 Stall
106T Ring Gear

APPLICATION | CODES
KM Series, 1986-01 Accent, Elantra, Sonata, Tiburon
4b, 52, 76, IF, IQ, KF, KH, KJ, KV, V6

TSB: 104

KM23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
KM Series, F4A41, 1993-Up Elantra 2.0L
JB, 3b

TSB: 104

KM8HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	24	3 Pads

NOTES
Lock Up
106T Ring Gear

APPLICATION | CODES
KM Series, 1985-91 Hyundai 1.5L
A2

KM7HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	24	3 Holes

NOTES
Lock Up
106T Ring Gear

APPLICATION | CODES
KM Series, 1983-88 Tredia, 1989-91 Sonata
C2, C4, D2, E4, E6, H4

KM9

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.335"	20	3 Pads, 10mm x 1.5

NOTES
Non Lock Up
High Stall
106T Ring Gear

APPLICATION | CODES
KM Series, 1988-92 Sonata 3.0L (KM175-177)
A1, G7, Some V7

KM19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.125" (8.75")	1.060"	20	6 Holes, 8mm x 1.25

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
KM Series 1990-95
22

TSB: **104**

KM28M

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (8.75")	1.335"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
R/V4A51, 2001-06 Sante Fe 2.4L, 2.7L
LB, LC, LE

TSB: **104**

KM16CHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	1.060"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
KM Series, 1992-98 Sonata 3.0L
3X

TSB: **104**

KM25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	1.060"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Med. to High Stall
110T Ring Gear

APPLICATION | CODES
F4A41, R/V4A41, 1999-03 Sonata 2.4L, 2005 Tucson 2.7L. (Works w/ or w/o Pilot Sleeve)
4C, YB, YB-K, YC

TSB: **104**

HYUNDAI

KM31M

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	**1.335"**	**20**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Med. to High Stall
110T Ring Gear

APPLICATION | CODES
F5A51, 2000-06 Sante Fe 3.5L
6L

TSB: **104**

KM29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.93" (8.75")	**1.060"**	**20**	**4 Holes, 10mm x 1.25**

NOTES
Lock Up
High Stall

APPLICATION | CODES
F4A41, 2001-06 Sante Fe 2.4L, 2.7L
YE

KM39A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.97" (8.75")	**1.335"**	**20**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Flats on Hub
Low Stall

APPLICATION | CODES
A5HF1, 2006-10 Sedona, Sonata, Azera 3.8L
TG, TH

TSB: **104**

KM40

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.75")	**1.335"**	**20**	**6 Holes, 10mm x 1.25**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
F5A51, 2000-07 Sante Fe 2.2L Turbo Diesel, 3.3L, 3.5L
TF

TSB: **104**

KM34

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.1" (8.775")	**1.335"**	**23**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
A6LF1, 2009-Up Hyundai
ZA, 1008280456

KM12BHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.75”)	1.060”	20	3 Holes, 10mm x 1.25

NOTES
Lock Up
M464MB Bolts
2200-2800 Stall
106T Ring Gear

APPLICATION | CODES
KM Series, 1986-01 Sonata
33, 54, 56, 68, b3, b4, b5, F2, 1F, 1Q, HQ, RM

TSB: 104

KM12HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.75”)	1.060”	20	3 Holes, 10mm x 1.5

NOTES
Lock Up
M464MA Bolts
2200-2800 Stall
106T Ring Gear

APPLICATION | CODES
KM Series, 1986-01 Sonata
4b, 52, 76, IF, IQ, KF, KH, KJ, KV, V6

TSB: 104

KM23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (8.75”)	1.060”	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
KM Series, F4A41, 1993-Up
JB, 3b

TSB: 104

DA26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9”)	.825”	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
F4A-EL, 2001-05 Rio 1.6L, 2001 Sephia 1.6L, 2000-04 Spectra 1.8L
00L28N121, Blue Paint w/ Green Dot

TSB: 11, 152

KM41

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.125” (8.75”)	1.060”	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Low Stall
110T Ring Gear

APPLICATION | CODES
A5GF1, 2006-10 Optima 2.4L
A5GF1, FB

TSB: 104

TO65

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3” (9”)	1.257”	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
.500” Tall Pads
Pilot Stepped .825” to 1.257”

APPLICATION | CODES
A44DE, 1995-02 Sportage 2.0L
04, 09, A44DE

KM28M

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (8.75")	1.335"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
R/V4A51, 2001-06 Sedona
LB, LC, LE

TSB: 104

DA67

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.1")	.748"	24	6 Pads, 10mm x 1.25

NOTES
Lock Up
Low Stall

APPLICATION | CODES
RE5R05A, 2005-06 Sorento 3.5L
RA, KAP, ECRA

TSB: 74, 75, 158

KM25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	1.060"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Med. to High Stall
110T Ring Gear

APPLICATION | CODES
F4A41, R/V4A41 (Works w/ or w/o Pilot Sleeve)
4C, YB, YB-K, YC

TSB: 104

KM39A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.97" (8.75")	1.335"	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
Low Stall
Hollow Pilot

APPLICATION | CODES
A5HF1, 2006-10 Sedona 3.8L
TG, TH

TSB: 104

KM49

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.975" (8.75")	1.335"	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
Slotted Hub
Low Stall

APPLICATION | CODES
A5HF1, 2006-11 Sedona 3.8L
TC

TSB: 104

KM39

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.688")	1.335"	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
Low Stall
Hollow Pilot

APPLICATION | CODES
A5HF1, 2006-11 Sedona 3.8L
TC

TSB: 104

TO8901

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.15" (9.625")	**.825"**	**26**	**6 Pads, 10mm x 1.5**

NOTES

Lock Up
Low Stall
.520" Thick Pads

APPLICATION | CODES

AW50-42LE, 2000-05 Kia Carnival

42A040, 4204, 03 (AW 50-40LE, 50-42LE)

TO97

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (8.5")	**.748"**	**20**	**6 Pads**

NOTES

Lock Up
Slightly Low Stall

APPLICATION | CODES

A30-40LE, 2002-04 Sorento 3.5L

11, 2048, Green Circle

NOTES

MAZDA F4A, G4A, GF4A QUICK REFERENCE GUIDE					
Codes:	**Part #**	**Diameter**	**Pilot**	**Splines**	**Paint Code**
R35	**DA15**	10.5”	1.375”	25	N/A
R35PC, R40PD, R40PB	**FM65**	10.5”	1.375”	21	N/A
R35B (21 Splines, .825” Pilot)	**FM65A**	10.5”	.825”	21	N/A
R35B (21 Splines, 1.375” Pilot)	**FM65**	10.5”	1.375”	21	N/A
R35B (25 Splines, 1.375”)	**DA15LS**	10.5”	1.375”	25	N/A
R40B (21 Splines, .825” Pilot)	**FM65A**	10.5”	.825”	21	N/A
R40B (21 Splines, 1.375” Pilot)	**FM65**	10.5”	1.375”	21	N/A
R40B (25 Splines, 1.375”)	**DA15LS**	10.5”	1.375”	25	N/A
FU9A	**FM84**	10.5”	.825”	21	N/A
FU9B	**FM85**	10.75”	.825”	21	N/A
FU9F	**FM84**	10.5”	.825”	21	N/A
FU31F	**FM65**	10.5”	1.375”	21	N/A
FU80A	**FM65A**	10.5”	.825”	21	N/A
GF01, G401	**FM85**	10.75”	.825”	21	N/A
Q17F	**FM82**	11”	.825”	21	N/A
Q17FP, Q17PF	**FM87**	10”	1.375”	21	Pink & White Dot
Q17G	**FM86**	10.5”	.825”	21	Blue w/ White Dot
Q20	**DA17HD**	10”	.785”	21	Green Dot
Q20F	**DA17F**	10”	.825”	21	2 White Dots
Q20G	**DA17A**	10”	.825”	21	2 Pink Dots
Q22G	**FM86**	10.5”	.825”	21	Blue w/ White Dot
Q25, P141	**FM83**	10”	1.375”	21	2 Yellow Dots
Q25E, Q25F, Q25G	**DA18**	10”	.825”	21	2 Orange Dots
94A	**DA18**	10”	.825”	21	2 Orange Dots
N/A	**DA26**	10”	.825”	21	Blue Paint Swatch
N/A	**DA30**	10”	.825”	21	1 White Dot
N/A	**DA57**	11”	1.375”	21	Yellow w/ Black Dot

DA17HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9")	.785"	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
1988-89 MX6 1.6L, 323, 626
Q20, Green Dot

TSB: 11, 152

DA17A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9")	.825"	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
1990-Up MX3, MX6, 323, Protege
Q20G, 2 Pink Dots

TSB: 11, 152

DA26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9")	.825"	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
2001-05 Rio 1.6L, 2000-04 Spectra 1.8L, Protege, 2001 Sephia 1.6L
00L28N121, Blue Paint w/ Green Dot

TSB: 11, 152

DA17F

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9")	.825"	21	4 Studs, 10mm x 1.0

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1990-94 Protege, 323
Q20F, 2 White Dots or Paint

TSB: 11, 152

DA18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9")	.825"	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
1990-Up MX3, MX6, 323, Protege
Q25E, Q25F, Q25G, 94A, 2 Orange Dots

TSB: 11, 152

DA30

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9")	.825"	21	4 Studs, 10mm x 1.0

NOTES
Lock Up
High Stall

APPLICATION | CODES
1997 Protege 1.9L
White Paint w/ Black Dot

TSB: 11, 152

MAZDA
F4A-EL, GFA-EL, GF4A-EL

FM83

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9")	1.375"	21	4 Studs

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1992-94 323
Q25, P141, 2 Yellow Dots

TSB: 11, 152

FM87

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9")	1.375"	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
Q17FP, Q17PF Pink & White Dot

TSB: 11, 152

FM84

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9")	.825"	21	4 Studs

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1993-97 Probe 2.0L MX6, 626 2.5L
FU9A, FU9F

TSB: 11, 152

FM86

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9")	.825"	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
1990-97 Probe 3.0L Awd, Protege Awd
Q17G, Q22G, Blue Paint w/ White Dot

TSB: 11, 152

FM65A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9")	.825"	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
1989-93 Probe 3.0L
FU80A, R35B Some, R40B Some

TSB: 11, 152

FM65

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9")	1.375"	21	4 Studs

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1989-93 Probe 3.0L, 1988-90 MX6, 626
FU31F, R35B Some, R35PC, R40B Some, R40PB, R40PD

TSB: 11, 152

DA15LS

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9")	1.375"	25	4 Studs

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1987-91 626, Protege 2.0L
R35B Some, R40B Some

TSB: 11, 152

DA15

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9")	1.375"	25	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
1986-89 323, 626, Protege 1.6L, 1.8L
R35

TSB: 11, 152

FM85

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9")	.825"	21	4 Studs

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1993-01 626, MX6, Millenia Probe 2.5L
FU9B, GF01, G401

TSB: 11, 152

FM82

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9")	.825"	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
Q17F

TSB: 11, 152

DA57

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9")	1.375"	21	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
2000-01 Mazda MPV 2.5L (GF4A-EL)
Yellow Paint w/ Black Dot

MAZDA
FN4A-EL, 4F27E

DA54

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (8.875")	**.825"**	**16**	**4 Studs, 10mm x 1.0**

NOTES
Lock Up
Med. to High Stall
1" Tall Pilot

APPLICATION | CODES
2000-07 Focus 2.0L, 2.3L, 1999-04 Protege 1.6L
0316C, 0320C, 0329C, 2209C, 2Z09C, White Paint (No Dot)

DA54M

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (8.875")	**.825"**	**16**	**4 Studs, 10mm x 1.0**

NOTES
Lock Up
Med. Stall
1" Tall Pilot

APPLICATION | CODES
2000-07 Focus 2.0L, 2.3L, 1999-04 Protege 1.6L
Light Purple Paint

DA55

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9")	**.825"**	**16**	**4 Welded Studs**

NOTES
Lock Up
Slightly High Stall
1" Tall Pilot

APPLICATION | CODES
2000-07 Focus 2.0L, 2.3L, 1999-04 Protege 1.6L, Some 1.8L
Green Paint w/ Black Dot, White Paint w/ Blue Dot, Yellow Paint w/ Black Dot

DA55A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9")	**.825"**	**16**	**4 Welded Studs**

NOTES
Lock Up
Low Stall
1" Tall Pilot

APPLICATION | CODES
1999-04 Protege 2.0L
Green Paint w/ Black Dot

DA55B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9")	**.825"**	**16**	**4 Studs**

NOTES
Lock Up
High Stall
1.5" Tall Pilot

APPLICATION | CODES
2004-07 Mazda 3 (2.0L)
K3

DA58

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (9”)	**.825”**	**16**	**4 Welded Studs**

NOTES	APPLICATION | CODES
Lock Up Med. Stall Reduced Primary, 1” Tall Pilot	**2003-05 Mazda 6 2.3L** **FNE2, FNE4**

DA64

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (9”)	**.825”**	**16**	**4 Studs, 10mm x 1.0**

NOTES	APPLICATION | CODES
Lock Up Low Stall Reduced Primary, 1.275” Tall Pilot	**2004-07 Mazda 3 2.3L, 2003-05 Mazda 6 2.3L** **FNK2, J4, K2**

DA65

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (9”)	**.825”**	**16**	**4 Studs, 10mm x 1.0**

NOTES	APPLICATION | CODES
Lock Up Low Stall Reduced Primary, 1.5” Tall Pilot	**2007 Mazda 5 (2.3L)** **FNJ4, J4**

FM4800

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (9”)	**.825”**	**16**	**4 Studs, 10mm x 1.0**

NOTES

Lock Up
Med. to Low Stall

APPLICATION | CODES

2006-08 Fusion 2.3L, 2006 Milan 2.3L, 2004-10 Mazda 3, 5, 6 2.3L

S4, FNS4

NOTES

TRANSTAR INDUSTRIES, INC.®

VISUAL DIFFERENCES IN VARIOUS LATE MODEL JATCO CONVERTERS

Early impeller with 3 rows of ribs

Late impeller with 2 rows of ribs

A number of late model JATCO style torque converters have 2 rows of ribs instead of 3 rows of ribs, and/or ‘solid’ pilots in lieu of ‘hollow’ pilots. These converters are dimensionally and functionally the same.

When ordering a JATCO converter like this one, the converter in the box may have 2 or 3 rows of ribs, as well as a solid or hollow pilot.

Early front cover with ‘hollow’ style pilot

Late front cover with ‘solid’ style pilot

MAZDA
JF506E, 09A

DA85

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.25”)	**1.375”**	**20**	**3 Studs, 10mm x 1**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2002-06 Mazda MPV 3.0L
71, 087, F1, ⊼1

TSB: **179, 180, 181**

DA85L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.25”)	**1.375”**	**20**	**3 Studs, 10mm x 1**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
2003-05 Mazda 6 3.0L
70, ⊼0

TSB: **179, 180, 181**

DA70

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.5”)	**1.375”**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
2002-07 Jaguar 2.5L
T4

TSB: **179, 180, 181**

DA80

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.5”)	**1.375”**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2002-07 Jaguar 3.0L
t3, T3

TSB: **179, 180, 181**

DA75

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.5”)	**.785”**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
2002-05 Freelander 2.5L
I7, ⊥7

TSB: **179, 180, 181**

VW9800

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.125" (9.25")	**.825"**	**20**	**3 Studs, 10mm x 1.0**

NOTES
Lock Up
Med. Stall
114T Ring Gear
Replaces DA90, VW0980

APPLICATION | CODES
2000-05 Jetta 1.8L (Not 2.8L)
DCD, J, J4, JC7, JP, Yellow Paint w/ White Dot

TSB: **179, 180, 181**

VW9801

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.25")	**.825"**	**20**	**3 Studs, 10mm x 1.0**

NOTES
Lock Up
Med. Stall
114T Ring Gear
Replaces VW0981

APPLICATION | CODES
2002-03 Jetta 2.8L Gas
≠19

TSB: **179, 180, 181**

VW9802

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.25")	**.825"**	**20**	**3 Studs, 10mm x 1.0**

NOTES
Lock Up
Low Stall
114T Ring Gear
Replaces VW0982

APPLICATION | CODES
2004-08 Jetta 1.9L Diesel
≠23

TSB: **179, 180, 181**

MERCEDES
722.3, 722.5

MB33

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9")	**1.375"**	**22**	**3 Pads**

NOTES
Non Lock Up
Med. Stall

APPLICATION | CODES
1981-91 300 Series, S500, 1989 300SEL
124-250-0002, 124-250-0302, 124-250-0902, 124-250-1002, 124-250-1702

MB32

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9")	**1.375"**	**22**	**3 Pads**

NOTES
Non Lock Up
Med. Stall
1.38" Tall Pilot

APPLICATION | CODES
1981-91 300 Series
126-250-0002, 126-250-0902, 126-250-1302

MB30

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (9")	**1.375"**	**22**	**3 Pads**

NOTES
Non Lock Up
Med. Stall
1.5" Tall Pilot

APPLICATION | CODES
1981-91 280 & 300 Series, 300SD Turbo
126-250-0145, 126-250-1502, 126-250-1602, 126-250-1702, 126-250-2302

MB38

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (10.5")	**1.375"**	**22**	**3 Pads**

NOTES
Non Lock Up
1.5" Tall Pilot

APPLICATION | CODES
1981-91 280 & 300 Series, 300SDL, 300SEL
126-250-1202, 126-250-1402

MB43

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25" (9")	**1.375"**	**22**	**3 Pads**

NOTES
Non Lock Up
Med. Stall
1" Tall Pilot

APPLICATION | CODES
1981-91 280 & 300 Series, 1988 Porsche 928 5.0L
722-250-0602

MB37

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25" (10.5")	**1.375"**	**22**	**3 Pads**

NOTES
Non Lock Up
1.21" Tall Pilot

APPLICATION | CODES
1981-91 380, 400E, 420, 500SL, 560SL/SEL, 600SEL
071-202-2620, 126-250-1102, 126-250-3402

MB39

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9”)	**1.375”**	**19**	**3 Pads**

NOTES
Non Lock Up

APPLICATION | CODES
1983-90 190E Gas, 190 Diesel
123-250-0202

MB40

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5” (9”)	**1.375”**	**19**	**3 Pads**

NOTES
Non Lock Up
Low Stall

APPLICATION | CODES
1983-90 190E Gas, 190 Diesel, 300D
201-250-0402

MB42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5” (9”)	**1.375”**	**19**	**3 Pads**

NOTES
Non Lock Up
High Stall

APPLICATION | CODES
1983-Up 190E, 190D
202-250-0002, 202-250-0102, 202-250-0402, 202-250-0502, 202-250-2002, 202-250-0002

MB41

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5” (9”)	**1.375”**	**19**	**3 Pads**

NOTES
Non Lock Up

APPLICATION | CODES
1983-93 190 Series
201-250-0102

MERCEDES
722.6, 722.9

MB18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9")	1.375"	22	3 Pads, 8mm x 1.25

NOTES
Dual Clutch

APPLICATION | CODES
1996-Up C230, E320, Sprinter 2.7L, 2.9L

210-250-0402, 210-250-0502, 210-250-0702, 210-250-0902, 903-250-0002

TSB: 7, 76, 102, 103

MB18A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.4")	1.375"	22	3 Pads, 8mm x 1.25

NOTES
Dual Clutch

APPLICATION | CODES
1996-Up 320 Series

210-250-0602, 210-250-0702, 210-250-0902, 211-250-0002, 211-250-0302, 211-250-0702, 211-250-0802

TSB: 7, 76, 102, 103

MB18A-3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.4")	1.375"	22	3 Pads, 8mm x 1.25

NOTES
Triple Clutch
Replaces MB7801

APPLICATION | CODES
240-250-0002

TSB: 7, 76, 102, 103

MB18B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (10.2")	1.335"	22	3 Pads, 8mm x 1.25

NOTES
Dual Clutch
Low Stall

APPLICATION | CODES
1996-Up Grand Cherokee, Liberty 3.7L, 300, 06-07 Charger, Grand Cherokee, Magnum

421AB, 478AA, 489AA, 500AA, 520AB, 580AA, 580AB

TSB: 7, 76, 102, 103

CR7801

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (10.2")	1.335"	22	3 Pads, 8mm x 1.25

NOTES
Dual Clutch
High Stall

APPLICATION | CODES
2003-Up Commander, Grand Cherokee 3.5L, 3.7L

447AA, 448AA, 489AA, 603AA

TSB: 7, 76, 102, 103

MB23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (10.25")	1.377"	22	3 Pads

NOTES
Dual Clutch
Med. Stall
45° Pads

APPLICATION | CODES
2005-12 Grand Cherokee 3.0L Diesel

209-250-0602, 209-250-0702, 209-250-0802

TSB: 7, 76, 102, 103

MB22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (9.25")	1.375"	22	3 Pads, 8mm x 1.25

NOTES
Lock Up
High Stall
45° Pads

APPLICATION | CODES
1996-Up Grand Cherokee, Sprinter, Dodge Sprinter 3.0L, Mercedes C230 1.8L

209-250-0802, 221-250-0102, 221-250-1202, 221-03-41C07

TSB: 7, 76, 102, 103

MB21

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (10.13")	1.375"	22	3 Pads, 8mm x 1.25

NOTES
Lock Up
Low Stall
45° Pads

APPLICATION | CODES
1996-Up Chrysler, Dodge

221-250-0502, 221-04-41D

TSB: 7, 76, 102, 103

MB21-3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (10.13")	1.375"	22	3 Pads

NOTES
Lock Up
Med. Stall
45° Pads
Replaces MB8801

APPLICATION | CODES

221-250-1702

TSB: 7, 76, 102, 103

MB19B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25" (11.5")	1.375"	22	3 Pads, 8mm x 1.25

NOTES
Dual Clutch

APPLICATION | CODES
1996-Up Jaguar XJR XK8 4.0L

722-250-1102, JB, O29

TSB: 7, 76, 102, 103

MB19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25" (10.7")	1.375"	22	3 Pads, 8mm x 1.25

NOTES
Dual Clutch
Med. Stall

APPLICATION | CODES
1996-Up 420, 500 Series

140-250-0402, 140-250-0502

TSB: 7, 76, 102, 103

MB19A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25" (9.4")	1.375"	22	3 Pads, 8mm x 1.25

NOTES
Dual Clutch
Med. Stall

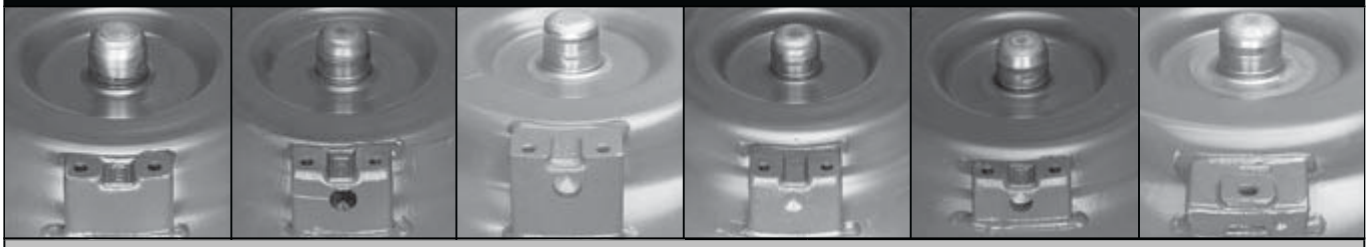
APPLICATION | CODES
1996-Up 430, 600 Series

140-250-0602, 140-250-0802, 140-250-0902, AW, MV

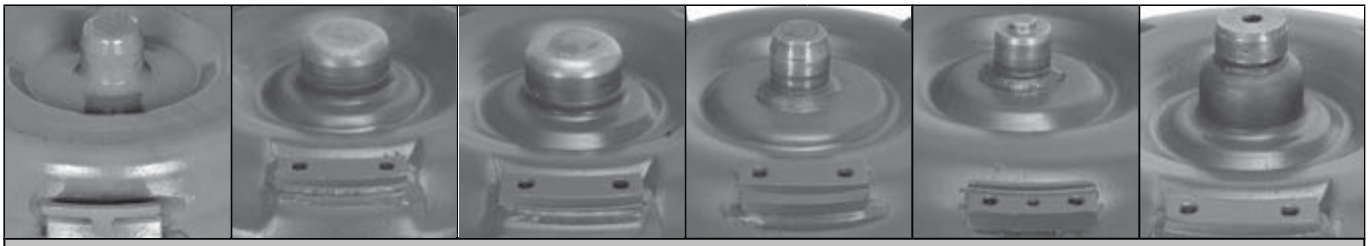
TSB: 7, 76, 102, 103

NOTES

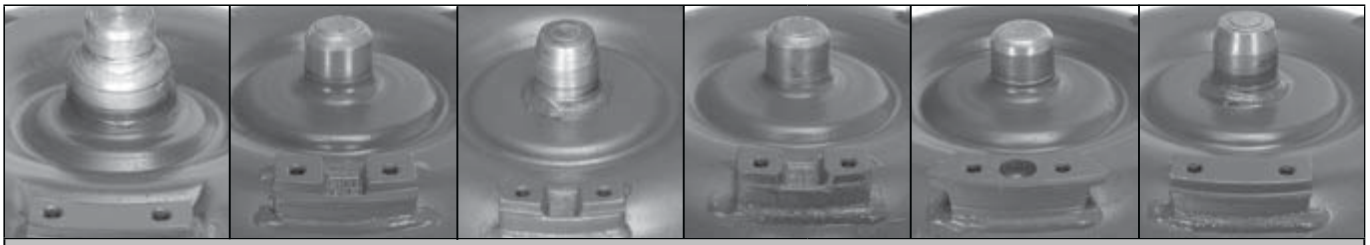
Mercedes Pilots



MB18 | MB18A | MB18B | MB19 | MB19A | MB19B

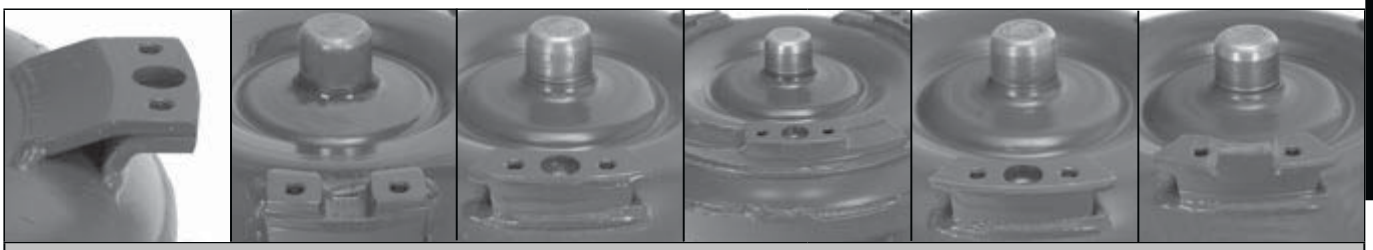


MB21 | MB25 | MB26 | MB27 | MB28 | MB29 (two versions)



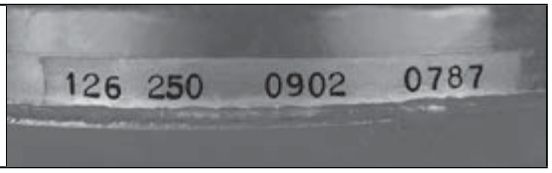
(two versions) MB29 | MB30 | (two versions) MB30 | MB32 | MB33 | MB34

MB35 | MB36 | MB36 (Side) | MB37 (two versions) | MB37 | MB38



MB38 (Side) | MB39 | MB40 | MB41 | MB42 | MB43

Mercedes Benz Converter Codes: The stamped codes on these converters are on the front cover near the weld. The code on this converter is 126 250 09 02 0787.
All of these converters have 250 as the 3rd, 4th & 5th digits.
The numbers that ID the converter are the first three digits and the 7th & 8th digits.
Thus the code for this converter is 126 09. (aka 126 250 0902)



Mitsubishi KM Series Quick Reference Guide

Codes	Transmission	Part #
KM170		
78	KM 170	**KM13**
170	KM 170	**KM5HD**
A1, V7	KM 170	**KM13**
KM170-1, KM170-2, KM170-3		
Green Paint	KM170-1	**KM6**
Green Paint	KM170-2	**KM6**
A1	KM170-3	**KM18**
A2	KM170-3	**KM8HD**
G7, V7	KM170-3	**KM18**
KM171		
41	KM171 (10mm x 1.25)	**KM15B**
41	KM171 (10mm x 1.5)	**KM15**
71	KM171	**KM11HD**
P1	KM171 (10mm x 1.25)	**KM15B**
P1	KM171 (10mm x 1.5)	**KM15**
P2, W2	KM171	**KM11HD**
KM171-1, KM171-2, KM171-5		
3b	KM171-1, KM171-2, KM171-5	**KM23**
C2, C4, D2	KM171-1, KM171-2, KM171-5	**KM7HD**
E4, E6, H4	KM171-1, KM171-2, KM171-5	**KM7HD**
JB	KM171-1, KM171-2, KM171-5	**KM23**
KM172		
A2	KM172	**KM8HD**
C2, C4, D2	KM172	**KM7HD**
E4, E6, H4	KM172	**KM7HD**
KM175		
3b	KM175	**KM23**
3M, 3T	KM175	**KM16BHD**
3X	KM175	**KM16CHD**
A2	KM175	**KM8HD**
C2, C4, D2	KM175	**KM7HD**
E4, E6, H4	KM175	**KM7HD**
G7	KM175	**KM9**
JB	KM175	**KM23**
MM, MT	KM175	**KM16HD**
KM175-5		
4b	KM175-5 (10mm x 1.25)	**KM12BHD**
4b	KM175-5 (10mm x 1.5)	**KM12HD**
52	KM175-5 (10mm x 1.25)	**KM12BHD**
52	KM175-5 (10mm x 1.5)	**KM12HD**
71	KM175-5	**KM11HD**
76	KM175-5 (10mm x 1.25)	**KM12BHD**
76	KM175-5 (10mm x 1.5)	**KM12HD**
A1	KM175-5	**KM9**
G7	KM175-5	**KM9**
IF, IQ	KM175-5 (10mm x 1.25)	**KM12BHD**
IF, IQ	KM175-5 (10mm x 1.5)	**KM12HD**
KF, KH, KJ, KV	KM175-5 (10mm x 1.25)	**KM12BHD**
KF, KH, KJ, KV	KM175-5 (10mm x 1.5)	**KM12HD**
P2	KM175-5	**KM11HD**
KM175-5 (Cont Next Column)		

Codes	Transmission	Part #
KM175-5 (Cont.)		
V6	KM175-5 (10mm x 1.25)	**KM12BHD**
V6	KM175-5 (10mm x 1.5)	**KM12HD**
V7	KM175-5	**KM9**
W2	KM175-5	**KM11HD**
X4	KM175-5	**KM11HD**
KM176		
3b	KM176	**KM23**
3M, 3T	KM176	**KM16BHD**
3X	KM176	**KM16CHD**
22	KM176	**KM19**
41	KM176 (10mm x 1.25)	**KM15B**
41	KM176 (10mm x 1.5)	**KM15**
51, 56	KM176	**KM10HD**
71	KM176	**KM11HD**
JB	KM176	**KM23**
MM, MT	KM176	**KM16HD**
P1	KM176 (10mm x 1.25)	**KM15B**
P1	KM176 (10mm x 1.5)	**KM15**
P2	KM176	**KM11HD**
S2, S4	KM176	**KM10HD**
W2	KM176	**KM11HD**
X4	KM176	**KM11HD**
KM177-5, KM177-8		
4b	KM177 (10mm x 1.25)	**KM12BHD**
4b	KM177 (10mm x 1.5)	**KM12HD**
52	KM177 (10mm x 1.25)	**KM12BHD**
52	KM177 (10mm x 1.5)	**KM12HD**
71	KM177	**KM11HD**
76	KM177 (10mm x 1.25)	**KM12BHD**
76	KM177 (10mm x 1.5)	**KM12HD**
A1	KM177	**KM9**
G7	KM177	**KM9**
IF, IQ	KM177 (10mm x 1.25)	**KM12BHD**
IF, IQ	KM177 (10mm x 1.5)	**KM12HD**
KF, KH, KJ, KV	KM177 (10mm x 1.25)	**KM12BHD**
KF, KH, KJ, KV	KM177 (10mm x 1.5)	**KM12HD**
P2	KM177	**KM11HD**
V6	KM177 (10mm x 1.25)	**KM12BHD**
V6	KM177 (10mm x 1.5)	**KM12HD**
V7	KM177	**KM9**
W2	KM177	**KM11HD**
X4	KM177	**KM11HD**
F4A33		
41	F4A33 (10mm x 1.25)	**KM15B**
41	F4A33 (10mm x 1.5)	**KM15**
LK	F4A33 (10mm x 1.25)	**KM14B**
LK	F4A33 (10mm x 1.5)	**KM14**
MM, MT	F4A33	**KM16HD**
NR	F4A33	**KM21**
P1	F4A33 (10mm x 1.25)	**KM15B**
P1	F4A33 (10mm x 1.5)	**KM15**

KM5HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	.863"	22	3 Holes

NOTES
Non Lock Up
106T Ring Gear

APPLICATION | CODES
1979-81 Colt, Champ
170

KM6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.25")	1.060"	24	3 Holes

NOTES
Non Lock Up
106T Ring Gear

APPLICATION | CODES
1982-88 Colt, Corolla, Tredia
Green Paint

KM13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.335"	20	3 Pads

NOTES
Non Lock Up
106T Ring Gear, 1.562" Tall Hub

APPLICATION | CODES
1988-92 Galant, Sonata, Sigma 3.0L (KM175-177)
A1, G7, Some V7

KM9

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.335"	20	3 Pads, 10mm x 1.5

NOTES
Non Lock Up
High Stall
106T Ring Gear, 1.687" Tall Hub

APPLICATION | CODES
1988-92 Galant, Sonata, Sigma 3.0L (KM175-177)
A1, G7, Some V7

KM15

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Pads, 10mm x 1.5

NOTES
Non Lock Up
106T Ring Gear

APPLICATION | CODES
1992-94 Colt 1.5L, Mirage 1.5L
41, P1

KM15B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Pads, 10mm x 1.25

NOTES
Non Lock Up
106T Ring Gear

APPLICATION | CODES
1992-94 Colt 1.5L, Mirage 1.5L
41, P1

MITSUBISHI
KM170-177, F3A/F4A21-33, A4AF1, A4BF1, A4BF-3

KM11HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Pads

NOTES
Lock Up
4.220" OAH
106T Ring Gear

APPLICATION | CODES
KM Series, 1991-92 Scoop, 1989-94 Colt, Vista Wagon, Eclipse, Excel, 1989-92 Mirage, Prism, Summit

71, P2, W2, H2, Some X4

KM8HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	24	3 Pads

NOTES
Lock Up
4.330" OAH
106T Ring Gear

APPLICATION | CODES
1985-91 Hyundai & Colt DL w/ 1.5L, 1989-90 Excel, 1985-91 Summit

A2

KM7HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	24	3 Holes

NOTES
Lock Up
4.435" OAH
106T Ring Gear

APPLICATION | CODES
1983-88 Cordia, Galant, Mirage, Tredia, Vista, 1988-89 Excel, 1989-91 Sonata

C2, C4, D2, E4, E6, H4

KM10HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Holes

NOTES
Lock Up
106T Ring Gear

APPLICATION | CODES
1991-95 Elantra, 1990-91 Excel, 1989-90 Laser, 1990-98 Sonata, 1990-94 Talon

51, 56, S2, S4, Some X4

KM12HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Holes, 10mm x 1.5

NOTES
Lock Up
M464MA Bolts
2200-2800 Stall
106T Ring Gear

APPLICATION | CODES
1986-01 Accent, Eclipse, Elantra, Galant, Precis, Sonata, Summit, Talon, Tiburon, Vista

4b, 52, 76, IF, IQ, KF, KH, KJ, KV, V6

KM12BHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	3 Holes, 10mm x 1.25

NOTES
Lock Up
M464MB Bolts
2200-2800 Stall
106T Ring Gear

APPLICATION | CODES
1986-01 Accent, Eclipse, Elantra, Galant, Precis, Sonata, Summit, Talon, Tiburon, Vista

33, 54, 56, 68, b3, b4, b5, F2, 1F, 1Q, HQ, RM

KM14

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.5")	1.060"	20	4 Pads, 10mm x 1.50

NOTES
Non Lock Up
110T Ring Gear

APPLICATION | CODES
1991-98 2.0L Laser & Talon w/ Turbo
LK

KM14B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.5")	1.060"	20	4 Pads, 10mm x 1.25

NOTES
Non Lock Up
110T Ring Gear

APPLICATION | CODES
1991-98 2.0L Laser & Talon w/ Turbo
6K

KM23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	1.060"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
1993-Up Mirage 1.5L, 1.8L, Elantra 2.0L
JB, 3b

KM16CHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	1.060"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
KM Series, 1992-98 Eclipse 2.0L Turbo, Sonata 3.0L, 1992-98 Talon 2.0L
3X

KM16HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	1.335"	20	4 Pads, 10mm x 1.50

NOTES
Lock Up
110T Ring Gear

APPLICATION | CODES
1991-99 Stealth, 3000 GT, Diamante, Stratus
MM, MT

KM16BHD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.42")	1.335"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
110T Ring Gear

APPLICATION | CODES
1991-99 Stealth, 3000 GT, Diamante, Stratus
3M, 3T

MITSUBISHI
KM170-177, F3A/F4A21-33, A4AF1, A4BF1, A4BF-3

KM19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.125" (8.75")	**1.060"**	**20**	**6 Holes, 8mm x 1.25**

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
1990-95 Excel Scoop 1.5L
22

KM21

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (8.75")	**1.060"**	**20**	**4 Pads**

NOTES
Lock Up
High Stall
110T Ring Gear

APPLICATION | CODES
1994-98 Galant 2.4L
NR

KM17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
1997-04 Diamante 3.0L, 3.5L
6X, FE, LB, LE, P9

3 Speed KM's w/ 1 Solenoid are Lock-Up, No Solenoids are Non Lock-Up
4 Speed KM's w/ 4 Solenoids are Lock-Up, w/ 3 Solenoids are Non Lock-Up

KM Converter Bolts			
TO ID KM BOLTS	Many KM converters can be interchanged if the correct bolts are used. For example, the KM14 uses 10mm x 1.5 bolts. You can replace the KM14 with the KM14B if used with 10mm x 1.25 bolts.		
		M464MA (10mm x 1.5)	**M464MB** (10mm x 1.25)

KM22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.188" (8.75")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Med. to High Stall
110T Ring Gear

APPLICATION | CODES
1998-02 Mirage 1.8L
3g, 3G, 38

TSB: **104**

KM30

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (8.75")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
2002-03 Lancer 2.0L
2g

TSB: **104**

KM27

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (8.7")	**1.060"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Low Stall
Short or Tall Fins

APPLICATION | CODES
1999-03 Galant 2.4L, 2000-05 Eclipse 2.4L
2c, 2C

TSB: **104**

KM24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.375" (8.75")	**1.335"**	**20**	**4 Pads**

NOTES
Lock Up
High Stall
Short or Tall Fins

APPLICATION | CODES
1998-03 Galant 2.4L, Mirage 1.8L
2a, 2A, 2c, 2C

TSB: **104**

KM25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	**1.060"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Med. to High Stall
110T Ring Gear, May Have a Pilot Sleeve. Works Both Ways.

APPLICATION | CODES
1999-03 Sonata 2.4L, 2005 Tucson 2.7L
4C, YB, YB-K, YC

TSB: **104**

KM17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slightly High Stall
110T Ring Gear (Remove Pilot Adapter if Needed)

APPLICATION | CODES
1999-04 Montero Sport 3.0L, 3.5L, 1997-04 Diamante 3.0L, 3.5L
6X, FE, LB, LE, P9

TSB: **104**

MITSUBISHI
F4A41/51, F5A51, F4A4B, F4A5A, A5GF1, A5HF1

KM17-6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	**1.335"**	**20**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Low Stall
110T Ring Gear

APPLICATION | CODES
1999-04 Montero Sport 3.0L, 3.5L, 2004-06 Endeavor 3.8L
6g, 6G

TSB: **104**

KM23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.75")	**1.060"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
1993-Up Mirage, Elantra 1.5L, 1.8L, 2.0L
JB, 3b

TSB: **104**

KM28

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (8.75")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
1999-03 Galant, Eclipse, Stratus 3.0L, Sebring
6d, P9

TSB: **104**

KM26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (8.75")	**1.335"**	**20**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Med. to High Stall

APPLICATION | CODES
2003-06 Montero 3.8L, 1999-04 Montero Sport 3.0L, 3.5L, 2001-02 Montero XLS & Limited 3.5L
RA, RG

TSB: **104**

KM29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.93" (8.75")	**1.060"**	**20**	**4 Holes, 10mm x 1.25**

NOTES
Lock Up
High Stall

APPLICATION | CODES
2001-06 Sante Fe 2.4L, 2.7L
YE

TSB: **104**

KM Converter Bolts

TO ID KM BOLTS	Many KM converters can be interchanged if the correct bolts are used. For example, the KM14 uses 10mm x 1.5 bolts. You can replace the KM14 with the KM14B if used with 10mm x 1.25 bolts.		
		M464MA (10mm x 1.5)	**M464MB** (10mm x 1.25)

KM31H

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (8.76”)	1.335”	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
High Stall
110T Ring Gear

APPLICATION | CODES
2006-Up Eclipse 3.0L (F5A51)
6M, W9

TSB: 104

KM31M

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (8.75”)	1.335”	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
Med. to High Stall
110T Ring Gear

APPLICATION | CODES
2000-06 Sante Fe 3.5L (F5A51), Galant 3.8L
6L

TSB: 104

KM39

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (8.688”)	1.335”	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
Low Stall
Hollow Pilot

APPLICATION | CODES
2006-11 Sedona 3.8L (A5HF1)
TC

TSB: 104

KM39A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.97” (8.75”)	1.335”	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
Low Stall
Hollow Pilot

APPLICATION | CODES
2006-10 Sonata, Azera 3.3L (A5HF1)
TG, TH

TSB: 104

KM40

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (8.75”)	1.335”	20	6 Holes, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
Low Stall
110T Ring Gear

APPLICATION | CODES
2000-07 Sante Fe 2.2L Turbo Diesel, 3.3L, 3.5L (F5A51)
TF

TSB: 104

KM41

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.125” (8.75”)	1.060”	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slotted Hub
Low Stall
110T Ring Gear

APPLICATION | CODES
2006-10 Kia Optima 2.4L (A5GF1)
A5GF1, FB

TSB: 104

MITSUBISHI
F4A41/51, F5A51, F4A4B, F4A5A, A5GF1, A5HF1

KM49

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.975" (8.75")	**1.335"**	**20**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Slotted Hub
Low Stall

APPLICATION | CODES
2006-11 Kia Sedona 3.8L (A5HF1)
TC

TSB: **104**

KM8201

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.18" (8.75")	**1.060"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Flats on Hub
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
2004-Up Galant 2.4L F4A4B
7C

TSB: **104**

KM8202

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.18" (8.75")	**1.060"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Flats on Hub
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
2004-Up Lancer, Mirage 1.5L F4A41
2d, 2D

TSB: **104**

KM Converter Bolts			
TO ID KM BOLTS	Many KM converters can be interchanged if the correct bolts are used. For example, the KM14 uses 10mm x 1.5 bolts. You can replace the KM14 with the KM14B if used with 10mm x 1.25 bolts.		
		M464MA (10mm x 1.5)	**M464MB** (10mm x 1.25)

KM34

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.1" (8.775")	**1.335"**	**23**	**6 Pads, 10mm x 1.25**

NOTES

Lock Up
Low Stall

APPLICATION | CODES

2009-Up Hyundai A6LF1

ZA, 1008280456

NOTES

MITSUBISHI
R4A51, R5A51, V4A51, V5A51

KM28

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (8.75")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
6d, P9

KM28M

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (8.75")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
2001-06 Sante Fe 2.4L, 2.7L, Sedona
LB, LC, LE

KM29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.93" (8.75")	**1.060"**	**20**	**4 Holes, 10mm x 1.25**

NOTES
Lock Up
High Stall

APPLICATION | CODES
2001-06 Sante Fe 2.4L, 2.7L
YE

KM17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slightly High Stall
110T Ring Gear

APPLICATION | CODES
1999-04 Montero Sport 3.0L, 3.5L,
1997-04 Diamante 3.0L, 3.5L
6X, FE, LB, LE, P9

KM17-6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	**1.335"**	**20**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Low Stall
110T Ring Gear

APPLICATION | CODES
1999-04 Montero Sport 3.0L, 3.5L, 2004-06
Endeavor 3.8L
6g, 6G

KM25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (8.75")	**1.060"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Med. to High Stall
110T Ring Gear
May Have a Pilot Sleeve.
Works Both Ways.

APPLICATION | CODES
4C, YB, YB-K, YC

KM26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (8.75")	**1.335"**	**20**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Med. to High Stall

APPLICATION | CODES
2003-06 Montero 3.8L, 1999-04 Montero Sport 3.0L, 3.5L, 2001-02 Montero XLS & Limited 3.5L
RA, RG

KM26L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (8.75")	**1.335"**	**20**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
Montero, Also 2003-06 3.8L, 1999-04 Sport 3.0L, 3.5L, 2001-02 XLS & Limited 3.5L
RE, RF, RH

KM Converter Bolts

TO ID KM BOLTS	Many KM converters can be interchanged if the correct bolts are used. For example, the KM14 uses 10mm x 1.5 bolts. You can replace the KM14 with the KM14B if used with 10mm x 1.25 bolts.		
		M464MA (10mm x 1.5)	**M464MB** (10mm x 1.25)

NOTES

DA8

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9”)	.785”	18	4 Pads, .500” Tall

NOTES
Lock Up
Low Stall
.500” Tall Pads

APPLICATION | CODES
1983-93 Nissan, Mazda, Starion, Conquest
G (GB, GF, GH, GI, etc.)

DA8A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9”)	.785”	18	4 Pads, .625” Tall

NOTES
Lock Up
High Stall
.625” Tall Pads

APPLICATION | CODES
1983-93 Pickup, 200SX
E (EL, EM, EO, etc.)

DA8B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9”)	.785”	20	4 Pads

NOTES
Lock Up
High Stall

APPLICATION | CODES
1988-95 MPV, 929
6T, GT, OT, OU

DA34

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9”)	.785”	18	4 Pads, .650” Tall

NOTES
Clutch Omitted
High Stall

APPLICATION | CODES
1984-89 300 ZX V6 Turbo
N (NE, NG, NEO, etc.)

DA37

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9.25”)	.825”	18	4 Studs

NOTES
Lock Up
High Stall

APPLICATION | CODES
1991-97 Miata
S (S2, S3, etc.)

DA14

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9”)	.785”	20	4 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1984-91 200SX, 300ZX, 810, 929, Conquest
G, L, ZB

NISSAN
RE0F09A, RE0F10A, JF010E, JF011E

N33G01

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.44" (9")	**.785"**	**20**	**4 Oval, 10mm x 1.25**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
JF011E
21C

TSB: **45, 46**

N33G02

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.44" (9")	**.785"**	**20**	**6 Studs, 8/10 x 1.25**

NOTES
Lock Up
Low Stall
Four 10mm x 1.25 Studs,
Two 8mm x 1.25 Studs

APPLICATION | CODES
JF011E
21F

TSB: **45, 46**

N33G03

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.44" (9")	**.785"**	**20**	**6 Studs, 8/10 x 1.25**

NOTES
Lock Up
Med. Stall
Four 10mm x 1.25 Studs,
Two 8mm x 1.25 Studs

APPLICATION | CODES
2007-12 Sentra 2.0L
21B

TSB: **45, 46**

N33G04

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.85" (9.085")	**.785"**	**20**	**6 Studs, 8/10 x 1.25**

NOTES
Lock Up
Low Stall
Four 10mm x 1.25 Studs,
Two 8mm x 1.25 Studs

APPLICATION | CODES
2003-12 Murano 3.5L
NC

TSB: **45, 46**

N33G05

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.85" (9.085")	**.785"**	**20**	**6 Studs, 8/10 x 1.25**

NOTES
Lock Up
Low Stall
Four 10mm x 1.25 Studs,
Two 8mm x 1.25 Studs

APPLICATION | CODES
2003-12 Murano 3.5L
ND

TSB: **45, 46**

CR33N01

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.44" (9")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2006-12 Caliber 2.0L
22B

TSB: **45, 46**

CR33N02

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.44" (9")	**1.335"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slightly Low Stall

APPLICATION | CODES
2006-12 Caliber 2.0L
22C

TSB: **45, 46**

NOTES

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DA13HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (8.375")	.785"	18	3 Pads

NOTES
Lock Up

APPLICATION | CODES
1983-94 Axxess, Stanza, Pulsar (Some) RE/RL4F02A

EB, EC, EF, FF, G, P, Q, T, U

DA48A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.1" (8.375")	.785"	18	4 Pads, 10mm x 1.25

NOTES
Lock Up
High Stall

APPLICATION | CODES
2001 Sentra, RE4F03B

DA48B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.1" (8.375")	.785"	18	4 Pads, 10mm x 1.25

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1991-02 G20 2.0L, 1991-2005 Sentra 1.8L, 2.0L RE4F03A

F, FK, K, KO, KF, OA

DA28

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (8.375")	.785"	18	4 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1991-99 Sentra 1.6L, 91-E93 Infinity G20 RE/RL4F03A

65, A, AA, FA, FF, O, P

DA48

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (8.375")	.785"	18	4 Pads

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1991-06 Sentra 2.0L, L93-99 Infinity G20 (Some 1.8L) RE/RL4F03A

2, 01, 05, 06, 08, 018, A, B, G, H, KF, KJ, N, Green Paint w/ Purple Dot

DA11HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9")	.785"	20	4 Pads

NOTES
Lock Up

APPLICATION | CODES
1984-94 Maxima 3.0L, Pulsar (Some) RE/RL4F02A

D, DA, DB, DC, E-1

NISSAN
RE4F04A, 4F20E, JF403E, LJ4A-EL

DA20

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.125" (8.5")	**.785"**	**18**	**6 Pads**

NOTES
Lock Up
Flats on Hub
High Stall

APPLICATION | CODES
1990-93 Impulse, Gemini, Storm, Prism 1.8L
A1, A3, KF1

DA46

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.125" (8.375")	**.785"**	**20**	**4 Pads**

NOTES
Lock Up
Slotted Hub
Med. Stall

APPLICATION | CODES
1992-06 Infinity I30, Altima 2.4L
HC, HE, HH, HI

DA53

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8" (9.055")	**.785"**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Flats on Hub
Med. to High Stall

APPLICATION | CODES
1995-02 Mazda Millennia 2.3L Turbo LJ4A-EL
K2

Late Model JATCO converters have interchangeable 2 or 3 rows of Ribs, and either a Hollow or Solid style Pilot.

2 Rows	3 Rows	Hollow Pilot	Solid Pilot

DA42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.08”)	.785”	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slotted Hub
Med. to High Stall
3 Dimple Rows (Two Pilots Shown for Comparison)

APPLICATION | CODES
2000-06 Altima 2.5L, 1995-01 I30, 1992-03 Maxima 3.0L, 1993-02 Quest 3.0L, 1993-02 Villager 3.0L

GB, GD, GE, GF

DA42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.08”)	.785”	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slotted Hub
Med. to High Stall
2 Dimple Rows (Two Pilots Shown for Comparison)

APPLICATION | CODES
2000-06 Altima 2.5L, 1995-01 I30, 1992-03 Maxima 3.0L, 1993-02 Quest 3.0L, 1993-02 Villager 3.0L

GB, GD, GE, GF

DA42L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.08”)	.785”	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Slotted Hub
Low Stall
2 or 3 Dimple Rows

APPLICATION | CODES
2002-05 Altima 3.5L, 2002-05 Maxima 3.5L, 2004-06 Quest 3.5L

LF, LF229

NISSAN
RE4R01A

DA40

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.125” (8.875”)	**.785”**	**18**	**3 Pads**

NOTES
Lock Up
Slotted Hub
.725” Tall Pilot
Smooth or Dimpled

APPLICATION | CODES
1987-Up Mazda Patrol, 300 ZX Turbo
B, B1, B4, B7, B9, B15, B17

DA36

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10.125”)	**.785”**	**20**	**4 Holes**

NOTES
Lock Up
Slotted Hub
.625” Tall Pilot
11” Mounting Ring

APPLICATION | CODES
1992-96 Mazda 929, RX7 3.0L
A12, A13, Some A20, A33, A47

DA36A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10.125”)	**.785”**	**20**	**4 Holes**

NOTES
Lock Up
Slotted Hub
.930” Tall Pilot
11” Mounting Ring

APPLICATION | CODES
1992-96 Mazda 929, RX7 3.0L
Some A20

DA16A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75” (9”)	**.785”**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slotted Hub
Med. to High Stall
1.05” Tall Pilot

APPLICATION | CODES
1990-93 Mazda 4wd Pickup 2.6L
L1

DA16HD

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75” (9”)	**.785”**	**20**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
Slotted Hub
Med. to High Stall
.730” Tall Pilot

APPLICATION | CODES
1987-Up Pickup, Pathfinder 4wd, MPV, 240SX, 300ZX, J30, M30
A1, 2, A3, A4, A5, A7, A8, A40, A43, A48

DA31

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.18”)	.785”	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
Med. Stall
.730” Tall Pilot

APPLICATION | CODES
1996-03 MPV 3.0L, J30, QX4 3.5L, Pathfinder 3.3L

49, A, A49, A52, A53, A59

DA31L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8” (9.18”)	.785”	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
Low Stall
.420” Tall Pilot

APPLICATION | CODES
1999-04 Xterra 3.3L, Frontier 3.3L Some

13, Y, Y13

DA56

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.6” (9.75”)	.785”	21	5 Pads, 10mm x 1.25

NOTES
Lock Up
Flats on Hub
Low Stall
.700” Tall Pilot

APPLICATION | CODES
1999-Up Pathfinder 3.3L, 3.5L, Frontier 3.3L Some

J1, J2, T1, T2

Late Model JATCO converters have interchangeable 2 or 3 rows of Ribs, and either a Hollow or Solid style Pilot.

2 Rows	3 Rows	Hollow Pilot	Solid Pilot

NISSAN
RE4R03A, RG4R01A, JR403E

DA41

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.6” (9.75”)	**.785”**	**24**	**4 Pads, 10mm x 1.25**

NOTES	APPLICATION | CODES
Lock Up **Med. Stall**	**1990-Up J30, 300 ZX w/ Twin Turbo** **E1, E3**

DA39

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75” (9.75”)	**.785”**	**24**	**4 Pads, 10mm x 1.25**

NOTES	APPLICATION | CODES
Lock Up **Med. Stall**	**1988-Up Iveco, Pathfinder 3.5L, Q45 4.5L** **H1, H2, H5, H6**

DA62

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.94” (9.75”)	**.785”**	**24**	**4 Pads, 10mm x 1.25**

NOTES	APPLICATION | CODES
Lock Up **Med. Stall**	**1990-01 Q45 4.1L, 4.5L** **J11, J14, J17**

Late Model JATCO converters have interchangeable 2 or 3 rows of Ribs, and either a Hollow or Solid style Pilot.

2 Rows	3 Rows	Hollow Pilot	Solid Pilot

DA24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25” (9.625”)	**.785”**	**24**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
No Inertia Ring

APPLICATION | CODES
1993-Up Fuso Turbo Diesel 2.4L JR403E
4 Black Dots, 925, 737, B623

DA21

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25” (9.625”)	**.785”**	**24**	**4 Pads, 10mm x 1.25**

NOTES
Lock Up
13” Inertia Ring

APPLICATION | CODES
1988-Up Isuzu Truck, Nissan UD 3.9L, 1994 Mitsubishi Fusio JR403E

DA27

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25” (9.75”)	**.785”**	**24**	**4 Pads**

NOTES
Lock Up
No Inertia Ring

APPLICATION | CODES
1988-Up Iveco 3.9L, UD 1300

DA25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.25” (13.3”)	**.785”**	**24**	**6 Holes**

NOTES
Lock Up
14.5” Mounting Ring

APPLICATION | CODES
1988-Up Diesel Truck 4 Cyl, 3.9L
A20 (Some)

NISSAN
RE5R05A, A5SR1

DA59

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (9.75”)	.785”	24	4 Pads, 10mm x 1.25

NOTES
Triple Clutch
Low Stall
.825” Tall Pilot, 5.75” OAH

APPLICATION | CODES
2002-07 Q45, 2005-07 Frontier 4.0L
A2, A3, AZ, ﾀ.2

TSB: 74, 75, 158

DA61

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9” (9.75”)	.785”	24	4 Pads, 10mm x 1.25

NOTES
Dual Clutch
Low Stall
.675” Tall Pilot, 5.25” OAH

APPLICATION | CODES
2002-07 Q45, 2005-07 Frontier 4.0L, Pathfinder, G35, 350Z, Xterra
F6, F10, F11, P2, P6, ﾁ6, ﾁ10, ﾁ11

TSB: 74, 75, 158

DA60

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125” (9.75”)	.785”	24	4 Pads, 10mm x 1.25

NOTES
Triple Clutch
Low Stall
1” Tall Pilot

APPLICATION | CODES
2004-12 Armada, Pathfinder, Titan 5.6L
40B, B40, FNJ4, J4

TSB: 74, 75, 158

DA63

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.2” (9.75”)	.785”	24	4 Pads, 10mm x 1.25

NOTES
Lock Up
Low Stall
1” Tall Pilot

APPLICATION | CODES

TSB: 74, 75, 158

DA67

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875” (9.1”)	.748”	24	6 Pads, 10mm x 1.25

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2005-06 Kia Sorento 3.5L
RA, KAP, ECRA

TSB: 74, 75, 158

NOTES

SUBARU
3 SPEED

SU1

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.55")	**.630"**	**18**	**4 Round Pads**

NOTES
Non Lock Up
105 T Ring Gear

APPLICATION | CODES
1975-79 Smooth or Dimpled

SU2

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (10.12")	**.630"**	**18**	**4 Holes**

NOTES
Non Lock Up
115T Ring Gear

APPLICATION | CODES
1980-82 Smooth or Dimpled, 8 Short Bosses w/ .650" Wide Ring

SU10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (10.75")	**.630"**	**18**	**4 Holes**

NOTES
Lock Up
115T Ring Gear

APPLICATION | CODES
1983-Up Smooth or Dimpled, 8 Short Bosses w/ .950" Wide Ring
Yellow Dot

SU8

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (10.75")	**.630"**	**18**	**4 Holes**

NOTES
Clutch Omitted
115T Ring Gear

APPLICATION | CODES
1983-Up w/ Raised Outside Boss, w/ Extra Ring
Pink or Orange Dot

SU7

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (10.75")	**.630"**	**18**	**4 Holes**

NOTES
Clutch Omitted
Can Use SU9
115T Ring Gear

APPLICATION | CODES
1983-Up w/ Raised Outside Boss, No Extra Ring
Light Blue Dot or Green Dot

SU9

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (10.75")	**.630"**	**18**	**4 Holes**

NOTES
Clutch Omitted
Can Use SU7
115T Ring Gear

APPLICATION | CODES
1983-Up w/ Raised Outside Boss, No Extra Ring
Yellow Dot

SU4

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (10.75")	**.630"**	**18**	**4 Holes**

NOTES
Clutch Omitted
115T Ring Gear

APPLICATION | CODES
1983-Up No Raised Outside Boss, No Extra Ring
Pink Dot

SU5

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (10.75")	**.630"**	**18**	**4 Holes**

NOTES
Clutch Omitted
Can use SU6
115T Ring Gear

APPLICATION | CODES
1983-Up No Raised Outside Boss, w/ Extra Ring
Green or White Paint

SU6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (10.75")	**.630"**	**18**	**4 Holes**

NOTES
Clutch Omitted
Can use SU5
115T Ring Gear

APPLICATION | CODES
1983-Up No Raised Outside Boss, w/ Extra Ring
Yellow Dot

4 Short / 4 Long
Non Raised Boss

4 Short / 4 Long
Raised Boss

No Bosses

8 Short Bosses

Round Pads

No Extra Ring

Extra Ring

Narrow Flat Pads

Wide Flat Pads

Mounting Ring

SUBARU
4 SPEED, R4AX-EL, 4EAT (22 SPLINES)

SU11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (11”)	**.630”**	**22**	**1” Narrow Pads**

NOTES
Lock Up
High Stall
115T Ring Gear

APPLICATION | CODES
1987-Up GLXT, 90-93 Legacy 2.2L Non Turbo
001-S, White Dot

SU11M

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (11”)	**.630”**	**22**	**1” Narrow Pads**

NOTES
Lock Up
Med. Stall
115T Ring Gear

APPLICATION | CODES
1987-Up GLXT, 90-93 Legacy 2.2L Non Turbo

SU13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (11.3”)	**.630”**	**22**	**1” Narrow Pads**

NOTES
Lock Up
High Stall
115T Ring Gear

APPLICATION | CODES
1991-06 Legacy 2.2L Turbo

SU14

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25” (11.75”)	**.630”**	**22**	**2” Wide Pads**

NOTES
Lock Up
Low Stall
115T Ring Gear
1” Tall Pilot

APPLICATION | CODES
1992-97 SVX 3.0L, 3.3L
Orange Paint

SU14HS

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25” (11.75”)	**.630”**	**22**	**2” Wide Pads**

NOTES
Lock Up
High Stall
115T Ring Gear
Replaces SU2301

APPLICATION | CODES
1997-Up Outback Wagon 2.5L
R4AX-EL, Blue Paint

SU15

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (10.9")	**.630"**	**23**	**1" Narrow Pads**

NOTES	APPLICATION | CODES
Lock Up **Med. Stall** **115T Ring Gear**	**2000-04 Outback 2.5L** **74**

SU17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (11.75")	**.630"**	**23**	**2" Wide Pads**

NOTES	APPLICATION | CODES
Lock Up **High Stall** **115T Ring Gear** **1.25" Pilot**	**1998 Subaru Legacy 2.5L, 1998-07 Forester 2.5L** **77, 79**

SU18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.2" (10.9")	**.630"**	**23**	**Mounting Ring**

NOTES	APPLICATION | CODES
Lock Up **Med. Stall** **115T Ring Gear**	**1999 Impreza** **95, 970**

SU16

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (11.75")	**.630"**	**23**	**Mounting Ring**

NOTES	APPLICATION | CODES
Lock Up **High Stall** **115T Ring Gear**	**1998-07 Forester 2.5L, Outback 2.5L** **06, 56, 58, 90, 91, 150, 850, 901**

SU16A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (11.75")	**.630"**	**23**	**Mounting Ring**

NOTES	APPLICATION | CODES
Lock Up **Slightly Low Stall** **115T Ring Gear** **Replaces SU2304**	**970, 6B46**

SU16B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25" (11.75")	**.630"**	**23**	**Mounting Ring**

NOTES	APPLICATION | CODES
Lock Up **Slightly Low Stall** **115T Ring Gear**	**2002-10 Legacy, Outback 3.0L Non Turbo** **850, 910, TZ10**

SUBARU
5 SPEED, 5EAT

SU6301

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.88" (11.75")	**.629"**	**24**	**4 Pads, 8mm x 1.25**

NOTES

Multi Disc Lock Up
Slightly High Stall
115T Ring Gear

APPLICATION | CODES

2006-11 Legacy GT 2.5L Turbo

A, 70, ^0

SU6302

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (11.75")	**.629"**	**24**	**4 Holes, 8mm x 1.25**

NOTES

Lock Up
Low Stall
115T Ring Gear

APPLICATION | CODES

2006-11 Tribeca 3.6L

140

NOTES

SU3301

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.7” (11.2”)	**.628”**	**23**	**4 Holes, 8mm x 1.25**

NOTES	APPLICATION | CODES
Lock Up **Med. Stall**	**2009-12 Legacy 2.0L, 2.5L** **170**

NOTES

TOYOTA
A40 SERIES (NON LOCK UP)

TO20

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.875")	**1.100"**	**26**	**6 Pads**

NOTES
Non Lock Up

APPLICATION | CODES
1980-84 Corolla, Isuzu

TO13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (8.875")	**1.257"**	**26**	**6 Pads**

NOTES
Non Lock Up

APPLICATION | CODES
1978-84 Pickup, Celica, Corona

TO9

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9")	**1.100"**	**26**	**6 Holes**

NOTES
Non Lock Up

APPLICATION | CODES
1973-80 Celica, Corolla, Corona

TO10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9")	**1.100"**	**26**	**6 Pads, 8mm x 1.25**

NOTES
Non Lock Up
High Stall

APPLICATION | CODES
1978-84 Isuzu Pickup, 1976 Celica, Corolla

TO8

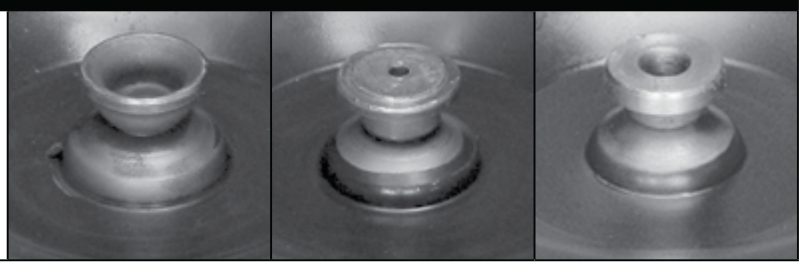
DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9")	**1.257"**	**26**	**6 Holes, 8mm x 1.25**

NOTES
Non Lock Up
Slightly Low Stall

APPLICATION | CODES
1973-80 Celica, Corolla, Corona

PILOTS MAY VARY

Many Toyota converters are identical except the pilot design. If the converter matches the application, dimension and codes but the pilot is slightly different, it may interchange. (Refer to these photos for examples of Pilots that interchange)



TO25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (8.5”)	.750”	26	6 Holes, 3/8 x 24

NOTES
Non Lock Up
Slightly High Stall

APPLICATION | CODES
1986-90 Dakota, Ram, Raider 2.0L, 2.6L, 3.0L
A44D

TO15

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (9”)	1.100”	26	6 Pads

NOTES
Non Lock Up
High Stall

APPLICATION | CODES
1980-93 Pickup 2.2L, Corolla
A40D

TO12

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (9”)	1.257”	26	6 Pads

NOTES
Non Lock Up
Low Stall

APPLICATION | CODES
1978-98 2.4L Celica, Cressida, Supra, Pickup 2.4L
A43D

TO16

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375” (9”)	1.100”	26	6 Pads

NOTES
Non Lock Up
Med. Stall

APPLICATION | CODES
1981-87 Isuzu Pickup, Impulse

TO60

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375” (9.125”)	1.257”	26	6 Pads, 9mm x 1.25

NOTES
Non Lock Up
Low Stall
.420” Tall Pads

APPLICATION | CODES
1995-04 Tacoma 2.4
7P, 5F, 6F, A43D

THESE TWO PILOTS INTERCHANGE

TOYOTA
A40D SERIES (LOCK UP)

TO24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.875")	1.100"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1984-87 Corolla
A42DL

TO81

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.875" (9")	.825"	26	6 Pads, 10mm x 1.25

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
1998-05 Mazda Miata 1.8L
30A160, 305, A44DE

TO39

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	.825"	20	4 Pads, 10mm x 1.25

NOTES
Lock Up
.510" Tall Pads

APPLICATION | CODES
1998-04 Tracker, Vitara 2.5L, XL-7
40A100, 40A610, A43DE, A44DE

TO65

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	1.257"	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
.500" Tall Pads
Pilot Stepped .825" to 1.257"

APPLICATION | CODES
1995-02 Kia Sportage 2.0L
04, 09, A44DE

TO37

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.375" (8.375")	.825"	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
.520" Tall Pads

APPLICATION | CODES
1998-04 Tracker, Vitara 2.0L (A44DE)
6C, 40A570, 40A571, A44DE

TO45

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.375" (9.125")	1.257"	20	6 Pads, 10mm x 1.25

NOTES
Lock Up
.390" Tall Pads
Pilot Stepped .825" to 1.257"

APPLICATION | CODES
1991-97 Previa 2.4L
019N, 023K, A46DE

TO23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.5")	.825"	26	3 Pads, 10mm x 1.25

NOTES
Lock Up
High Stall
Pilot Stepped .650" to .825"

APPLICATION | CODES
1996-97 Tracker 1.6L, 1995-98 X-90, 1992-98 Sidekick 1.6L, 1.8L Some Geo Prizm

10A610, Red Circle w/ Blue Dot

TO18A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.18" (8.975")	1.257"	26	6 Pads

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1982-Up Cressida, Supra, Vans, 1991 2wd Tacoma

Black, Blue, Green or White Dots, A43DL, A43DE, A44DL

TO17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.34" (9")	1.100"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
Med. to High Stall
.375" Tall Pads

APPLICATION | CODES
1986-Up Isuzu Pickup, Impulse

Pink Paint

TO47

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (8.5")	.750"	26	6 Pads, 3/8 x 24

NOTES
Lock Up
High Stall
Replaces TO32B

APPLICATION | CODES
1987-Up Amigo, Montero, Vans

8B, 8U, 9B, KC18D, TGO3D, Blue Circle w/ Blue Dot

TO26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (8.5")	.750"	26	6 Pads, 10mm x 1.25

NOTES
Lock Up
High Stall

APPLICATION | CODES
1986-Up 3.0L Dakota, Ram, Raider, Montero

Blue Circle w/ Green Dot

THESE TWO PILOTS INTERCHANGE

TOYOTA
A40 VOLVO AW70, AW71

VO22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (10.25")	**1.575"**	**26**	**4 Holes**

NOTES
Non Lock Up
High Stall
11" Mounting Ring

APPLICATION | CODES
1981-Up 2.8L 6 Cyl. Volvo

VO19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.375" (8.5")	**.750"**	**26**	**4 Holes, 10mm x 1.25**

NOTES
Non Lock Up
Low Stall

APPLICATION | CODES
1981-Up 4 Cyl. Volvo (Including 940 2.3L Turbo)
3A, 9G, ODM, ODS

VO18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.375" (8.5")	**.750"**	**26**	**4 Holes, 10mm x 1.25**

NOTES
Non Lock Up
High Stall

APPLICATION | CODES
1981-Up 4 Cyl. Volvo (Including 240 & Wagon 2.3L)
M, ODM, ODS

VO23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10")	**1.575"**	**26**	**4 Holes**

NOTES
Non Lock Up
Low Stall
11.25" Mounting Ring

APPLICATION | CODES
1981-Up 2.8L 6 Cyl. Volvo

PILOTS MAY VARY

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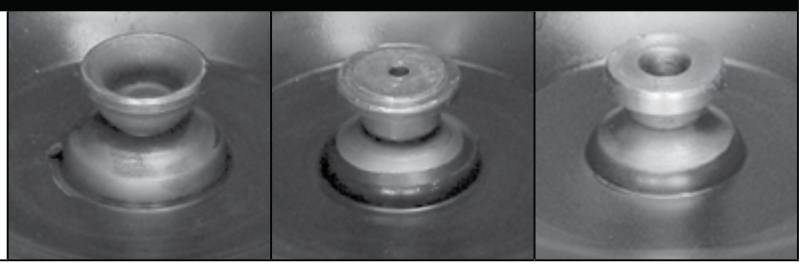

VO24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (9.625")	1.375"	20	6 Pads, 8mm x 1.25

NOTES
Lock Up
High Stall

APPLICATION | CODES
1991-97 Volvo
L Code, Blue, Pink or Red Dot

VO25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (9.6")	.825"	20	6 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1991-97 Volvo 960, S90
20A050

VO21

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (8.5")	.750"	20	4 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1991-97 Volvo
OD

VO20

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (8.5")	.750"	20	4 Pads

NOTES
Lock Up
High Stall

APPLICATION | CODES
1991-97 Volvo
2G, 5W, 7M, 9A, 9F, 9J, Blue & Pink Dot

THESE TWO PILOTS INTERCHANGE

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TO31

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.75")	**.394"**	**26**	**6 Pads**

NOTES
Non Lock Up
High Stall

APPLICATION | CODES
1985-92 Daihatsu, Isuzu, Suzuki Swift

TO30

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.75")	**1.100"**	**26**	**6 Pads**

NOTES
Non Lock Up
High Stall
Reduced Primary

APPLICATION | CODES
1988-Up Swift 1.3L, Sprint, Metro

TO29LS

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.75")	**1.100"**	**26**	**6 Pads, 9mm x 1.25**

NOTES
Non Lock Up
Low Stall
Reduced Primary

APPLICATION | CODES
1983-Up Swift 1.0L, Sprint, Firefly
Black Dot, Purple Dot

TO29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.75")	**1.100"**	**26**	**6 Pads, 9mm x 1.25**

NOTES
Non Lock Up
High Stall

APPLICATION | CODES
1983-Up Swift 1.0L, Sprint, Firefly
Black Dot, Purple Dot

PILOTS MAY VARY

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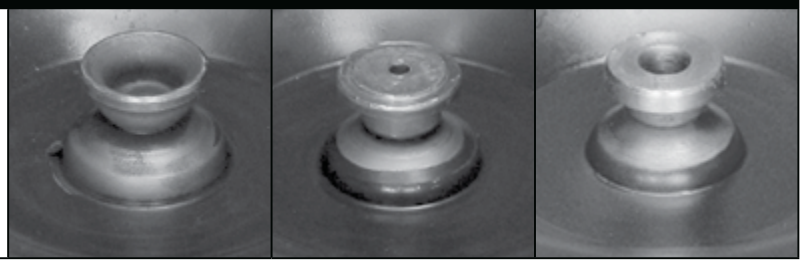


TOYOTA
A130, A140, A240, MX17 (LOCK UP)

TO19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.75")	1.100"	26	6 Pads

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1983-92 Corolla 1.6L, Nova, 98-02 Prism 1.8L
Black Dot

TO58

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.75")	1.100"	26	6 Pads

NOTES
Lock Up
High Stall

APPLICATION | CODES
1987-89 Supercharged MR2, Corolla 1.6L
Light Green Circle

TO22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.875" (7.9")	1.100"	26	6 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1996-Up Prizm, 2002 Vibe 1.8L, 2004 Matrix
05, 202, J08, Some 30A070, 30A360, A131, Pink Circle w/ White Dot

TO33

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.875" (7.9")	1.100"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
High Stall

APPLICATION | CODES
2003-07 Vibe 1.8L, 87-Up Celica, Corolla, MR2, Matrix, Paseo, Prizm, 92-98 Tercel
07, 7, Some 30A070, 30A108, R290

TO53

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9")	1.257"	26	6 Pads

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1990-Up Celica 2.2L, 90-91 Camry 2.0L 4wd
17V, A240, A241

TO53LS

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9")	1.257"	26	6 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1990-Up Celica 2.2L, 90-91 Camry 2.0L 4wd
11P, 16U, 16Y, 17V, 18S, A240, A241

TO41

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9")	1.257"	26	6 Holes

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1990-93 Celica GTS
White Ring, Purple Dot

TO42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	1.257"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
Slightly Low Stall
Can use TO42B w/ 9mm Bolts

APPLICATION | CODES
1988-00 Camry & Celica 2.2L, 1991 MR2
16U, #15 Bar Code, White Circle Around Pilot

TO42B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Slightly Low Stall
Can use TO42 w/ 8mm Bolts

APPLICATION | CODES
1988-00 Camry & Celica 2.2L, 1991 MR2
16A, #15 Bar Code, 15B, Yellow Dots

TO18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.18" (8.975")	1.257"	26	6 Pads

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1983-01 Camry 2.0L, Celica 2.0L
Black Dot

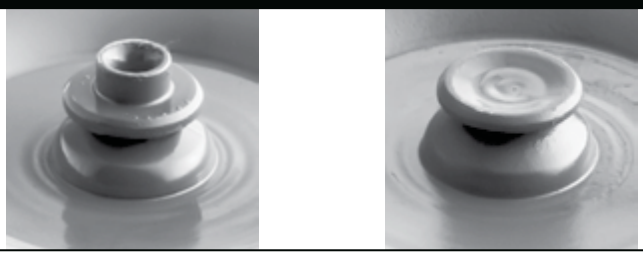
TO51

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Med. Stall
Pilot Stepped .825" to 1.257"

APPLICATION | CODES
1988-01 Some Camry, ES250, ES300, 94 Avalon
Blue Circle Around Pilot

THESE TWO PILOTS INTERCHANGE



TOYOTA
A340 SERIES, AW4

TO38

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.625")	1.100"	26	6 Pads

NOTES
Lock Up
Med. Stall
.375" Tall Pads

APPLICATION | CODES
1988-91 Trooper
Pink Dot

TO68

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.2" (9.6")	.825"	20	6 Pads, 8mm x 1.25

NOTES
Lock Up
Low Stall
1.30" Tall Pilot

APPLICATION | CODES
Toyotas
Y51, 42A030, 43A012, 43A020, 43A021, 43A030, 43A220

TO47

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (8.5")	.750"	26	6 Pads, 3/8 x 24

NOTES
Lock Up
High Stall
Replaces TO32B

APPLICATION | CODES
1986-Up Mitsubishi Trucks
8B, 8U, 9B, KC18D, TGO3D, Blue Circle w/ Blue Dot

TO47L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (8.5")	.750"	26	6 Pads, 3/8 x 24

NOTES
Lock Up
Slightly Low Stall

APPLICATION | CODES
2N, 11B, Blue Circle w/ Green Dot

TO18C

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9")	1.257"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
Slightly Low Stall
1.25" Tall Pilot
.375" Tall Pads

APPLICATION | CODES
1989-Up Lexus 2.5L, Cressida 2.4L, Trucks 3.0L
20A020, 9R, Green Circle w/ Blue Dot

TO18B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9")	1.257"	26	6 Pads

NOTES
Lock Up
Med. Stall
.500" Tall Pads

APPLICATION | CODES
1987-Up Pickup, 4-Runner, 1987-92 Cressida
Blue Circle w/ Red Dot

TO59

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.125")	1.257"	20	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
1.30" Tall Pilot
.405" Tall Pads

APPLICATION | CODES
1995-04 4-Runner & T100 3.4L, Tacoma 2.7L, 3.4L, 93-98 Previa 2.4L, GS300, Supra 3.0L Turbo, SC300

03, O3, 20A020, Blue Circle w/ Red Dot

TO40B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.125")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Slightly Low Stall
.400" Tall Pads

APPLICATION | CODES
1990-94 4-Runner 3.0L, 1987-92 Cressida

2N, AU, BU, Blue Circle w/ Red Dot, Green Circle w/ White Dot

TO40

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.125")	1.257"	26	6 Pads

NOTES
Lock Up
High Stall
.375" Tall Pads

APPLICATION | CODES
1986-98 Supra 3.0L, 1990-94 4-Runner 3.0L

8U, Pink Circle w/ Blue Dot

TO60

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.188")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Clutch Omitted
Low Stall
.420" Tall Pads

APPLICATION | CODES
1995-98 Tacoma 4 Cyl., 1996-Up Pickup 3.4L

7P, 5F, 6F

J29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.25")	.825"	26	4 Pads, 10mm

NOTES
Lock Up
High Stall

APPLICATION | CODES
1987-Up Cherokee 2.5L

Green Circle w/ Red Dot

J30

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.25")	1.810"	26	4 Pads, 10mm

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1987-Up Cherokee 4.0L

9A, Green Circle w/ Pink Dot, Green Circle w/ White Dot

TOYOTA
A340 SERIES, AW4

VO29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.625")	.825"	20	6 Pads, 8mm x 1.25

NOTES
Lock Up
High Stall
1.63" Tall Pilot

APPLICATION | CODES
1993-97 Volvo 960 2.9L (Including 92 960 Wagon)
20A050, 8U, Red Circle w/ Green Dot, Pink Circle

TO28

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.625")	1.100"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
Med. Stall
.500" Tall Pads

APPLICATION | CODES
1988-91 Trooper

TO9701

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.75")	.825"	20	6 Pads, 10mm x 1.5

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2004 Isuzu Rodeo 3.5L (A340)
07, 2062, Green Circle

TO97

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (8.5")	.748"	20	6 Pads

NOTES
Lock Up
Slightly Low Stall

APPLICATION | CODES
2002-04 Sorento 3.5L (A30-40LE)
11, 2048, Green Circle

TO26-20

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (8.5")	.750"	20	6 Pads, 3/8 x 24

NOTES
Lock Up
Low Stall
1.12" Tall Pilot

APPLICATION | CODES
1998 Montero 3.0L (A340)
03, Two Green Circle w/ Blue Dot

TO26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (8.5")	.750"	26	6 Pads, 10mm x 1.25

NOTES
Lock Up
High Stall

APPLICATION | CODES
1986-Up Mitsubishi Montero, Vans
Blue Circle w/ Green Dot

VO25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (9.6")	.825"	20	6 Pads

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1991-97 Volvo 960, S90
20A050

VO24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (9.625")	1.375"	20	6 Pads, 8mm x 1.25

NOTES
Lock Up
High Stall

APPLICATION | CODES
1991-97 Volvo AW72L, A340
L, Blue, Pink or Red Dot

TO44

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (9.5")	1.257"	20	6 Pads

NOTES
Lock Up
Low Stall
1.35" Tall Pilot

APPLICATION | CODES
1989-97 Lexus LS400, SC400
01X, 0L, 9L

TO70

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.8" (9.5")	1.257"	20	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
1.40" Tall Pilot
.340" Tall Pads

APPLICATION | CODES
53A020, 320

TO71

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.8" (9.5")	1.257"	20	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
1.40" Tall Pilot
.340" Tall Pads

APPLICATION | CODES
2003-08 4 Runner 4.7L, 2005-08 Sequoia 4.7L
53A010, 53A011, Blue Dot

TO14701

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.85" (10.56")	1.257"	20	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2005-Up 4Runner, Tundra, Tacoma 4.0L
50A110, 53A040, 010, 320, 5011, 5304, 5A1

TOYOTA
A340, AW4

TO66

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.85" (10.75")	**1.257"**	**20**	**6 Pads, 10mm x 1.25**

NOTES

Lock Up
Low Stall
1.45" Tall Pilot
.500" Tall Pads

APPLICATION | CODES

1996-97 LX450 4.5L, 1998-02 LX470 4.7L, 1995-02 Landcruiser 4.5L, 4.7L

50A020, 5, E, 11, U

TO44A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.85" (9.4")	**1.257"**	**20**	**6 Pads, 9mm x 1.25**

NOTES

Lock Up
Low Stall
1.45" Tall Pilot
.475" Tall Pads

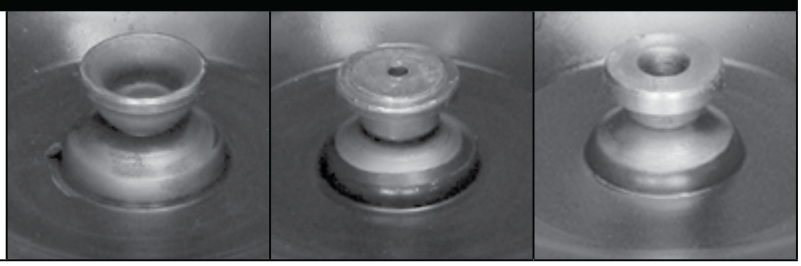
APPLICATION | CODES

1996-97 LX450, 1998-02 LX470, 00-04 Sequoia 4.7L, Tundra 3.4L, 4.7L

50A040, 50A070, 010, 5007, 5A1, 8F04U, 5A070, 5A100

PILOTS MAY VARY

Many Toyota converters are identical except the pilot design. If the converter matches the application, dimension and codes but the pilot is slightly different, it may interchange. (Refer to these photos for examples of Pilots that interchange)



TO59

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375” (9.125”)	**1.257”**	**20**	**6 Pads, 9mm x 1.25**

NOTES

Lock Up
Low Stall
1.30” Tall Pilot
.405” Tall Pads

APPLICATION | CODES

1995-04 4-Runner & T100 3.4L, Tacoma 2.7L, 3.4L, 93-98 Previa 2.4L, GS300, Supra 3.0L Turbo, SC300

03, O3, 20A020, Blue Circle w/ Red Dot

NOTES

TOYOTA
A540, A541

TO19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.75")	**1.100"**	**26**	**6 Pads**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1998-02 Prism 1.8L
Black Dot

TSB: **8**

TO53

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9")	**1.257"**	**26**	**6 Pads**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1990-91 Camry 2.0L 4wd
17V, A240, A241

TSB: **8**

TO53LS

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9")	**1.257"**	**26**	**6 Pads**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1990-91 Camry 2.0L 4wd
11P, 16U, 16Y, 17V, 18S, A240, A241

TSB: **8**

TO41

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9")	**1.257"**	**26**	**6 Holes**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
White Ring, Purple Dot

TSB: **8**

TO42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	**1.257"**	**26**	**6 Pads, 8mm x 1.25**

NOTES
Lock Up
Slightly Low Stall
Can use TO42B w/ 9mm Bolts

APPLICATION | CODES
1988-00 Camry
16U, #15 Bar Code, White Circle Around Pilot

TSB: **8**

TO42B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	**1.257"**	**26**	**6 Pads, 9mm x 1.25**

NOTES
Lock Up
Slightly Low Stall
Can use TO42 w/ 8mm Bolts

APPLICATION | CODES
1988-00 Camry
16A, #15 Bar Code, 15B, Yellow Dots

TSB: **8**

TO55

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.6")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
9.8" Reduced Primary
Pilot Stepped .825" to 1.257"

APPLICATION | CODES
1988-01 Some Camry, ES250, ES300, 1995-05 Avalon 3.0L, 1998-03 Sienna 3.0L

Ⓛ

TSB: 8

TO55A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.6")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
10.2" Reduced Primary
Pilot Stepped .825" to 1.257"

APPLICATION | CODES
1988-01 Some Camry, ES250, ES300, 1995-05 Avalon 3.0L, 1998-03 Sienna 3.0L

Ⓛ

TSB: 8

TO55L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.15" (9.6")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Very Low Stall

APPLICATION | CODES
2004-08 Highlander 3.3L, Camry 3.3L, Sienna 3.3L

04 Ink Stamp, 02

TSB: 8

TO18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.18" (8.975")	1.257"	26	6 Pads

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1983-01 Camry 2.0L

Black Dot

TSB: 8

TO51

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Med. Stall
Pilot Stepped .825" to 1.257"

APPLICATION | CODES
1988-01 Some Camry, ES250, ES300, 94 Avalon

Blue Circle Around Pilot

TSB: 8

THESE TWO PILOTS INTERCHANGE

TOYOTA
A650E

TO59

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375” (9.125”)	**1.257”**	**20**	**6 Pads, 9mm x 1.25**

NOTES

Lock Up
Low Stall
1.30” Tall Pilot
.405” Tall Pads

APPLICATION | CODES

03, O3, 20A020, 31287, OE26M, Blue Circle w/ Red Dot

TO44B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.8” (9.5”)	**1.257”**	**20**	**6 Pads, 9mm x 1.25**

NOTES

Lock Up
Low Stall
.400” Tall Pads

APPLICATION | CODES

2001-02 LS, GS 4.3L

A080A, 5A1

TO44A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.85” (9.4”)	**1.257”**	**20**	**6 Pads, 9mm x 1.25**

NOTES

Lock Up
Low Stall
1.45” Tall Pilot
.475” Tall Pads

APPLICATION | CODES

50A040, 50A070, 010, 5007, 5A1, 8F04U, 5A070, 5A100, Green Circle w/ Pink Dot

TO70

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.8” (9.5”)	1.257”	20	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
1.40” Tall Pilot
.340” Tall Pads

APPLICATION | CODES
53A020, 320

TSB: 182, 183, 184

TO71

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.8” (9.5”)	1.257”	20	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
1.40” Tall Pilot
.340” Tall Pads

APPLICATION | CODES
2003-08 4 Runner 4.7L, 2005-08 Sequoia 4.7L, 2003-09 GX470 4.7L
53A010, 53A011, Blue Dot

TSB: 182, 183, 184

TO14701

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.85” (10.56”)	1.257”	20	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2005-Up 4Runner, Tundra, Tacoma 4.0L
50A110, 53A040, 010, 320, 5011, 5304, 5A1

TSB: 182, 183, 184

TO15701

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.87” (10.56”)	1.257”	24	6 Pads, 10mm x 1.25

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2007-12 Tundra 5.7L (AB60E, AB60F)
B, L, LB

TOYOTA
U140E, U140F, U240E, U241E

TO33

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.875" (7.9")	1.100"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
High Stall

APPLICATION | CODES
2003-07 Vibe 1.8L, 87-Up Celica, Corolla, MR2, Matrix, Paseo, Prizm, 92-98 Tercel

07, 7, R, Some 30A070, 30A108, R290

TSB: 42, 43, 44

TO75

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
2000-08 Rav4 2.0L, 02-05 Solara 2.4L, 00-12 Camry 2.4L

40A970, 14, 22, 16U, 1B14V

TSB: 42, 43, 44

TO75L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
Replaced by TO42B

APPLICATION | CODES
2001-07 Highlander 2.4L

40A980, 11, 21, 16U

TSB: 42, 43, 44

TO42B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Slightly Low Stall
Replaces TO75L

APPLICATION | CODES
2005 Camry 2.4L, 2001-07 Highlander 2.4L

11, 21, 16A, 16U, #15 Bar Code, 15B, Yellow Dots, 40A980

TSB: 42, 43, 44

TO64

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.315" (9")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
2000-Up Camry 2.4L (U241E), 2004 Camry 2.4L (U140E)

#16A Bar Code

TSB: 42, 43, 44

TO64A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.315" (9")	1.257"	26	6 Pads

NOTES
Lock Up

APPLICATION | CODES
2000-Up Camry 2.4L (U241E), 2004 Camry 2.4L (U140E)

TSB: 42, 43, 44

TO33L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (7.9")	1.100"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
Pilot Stepped .825" to 1.100"
Can Use TO73 w/ 8mm Bolts

APPLICATION | CODES
2000-05 Celica GTS 1.8L
13, 14, 19, Blue Circle

TSB: 42, 43, 44

TO73

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (7.9")	1.100"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
Slightly Low Stall
.365" Tall Pads
Can Use TO33L w/ 9mm Bolts

APPLICATION | CODES
2000-05 Celica GTS 1.8L
12, 19, Y/030417

TSB: 42, 43, 44

TO55A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.6")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
10.2" Reduced Primary
Pilot Stepped .825" to 1.257"

APPLICATION | CODES
1999-01 ES300, 1998-03 RX300, 2001-07 Highlander 3.0L
Ⓛ

TSB: 42, 43, 44

TO55

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.6")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
9.8" Reduced Primary
Pilot Stepped .825" to 1.257"

APPLICATION | CODES
1999-01 ES300 w/ U140E, 1998-03 RX300
Ⓛ

TSB: 42, 43, 44

TO55L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.15" (9.6")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Very Low Stall
.380" Tall Pads

APPLICATION | CODES
2004-08 Highlander 3.3L, Camry 3.3L, Sienna 3.3L
04 Ink Stamp, 02

TSB: 42, 43, 44

TO70

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.8" (9.5")	1.257"	20	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
1.40" Tall Pilot
.340" Tall Pads

APPLICATION | CODES
1998-03 RX300 3.0L
53A020, 320

TSB: 42, 43, 44

TOYOTA
U150, U151, U250, U251

TO42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	1.257"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
Slightly Low Stall
Can use TO42B w/ 9mm Bolts

APPLICATION | CODES
2005 Camry 2.4L
16A, #15 Bar Code, 15B, Yellow Dots

TSB: 42, 43

TO42B

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.3" (9")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Slightly Low Stall
Can use TO42 w/ 8mm Bolts

APPLICATION | CODES
2005 Camry 2.4L
16A, #15 Bar Code, 15B, Yellow Dots

TSB: 42, 43

TO55A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.6")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
10.2" Reduced Primary
Pilot Stepped .825" to 1.257"

APPLICATION | CODES
1999-01 ES300, 1998-03 RX300, 2001-07 Highlander 3.0L
Ⓛ

TSB: 42, 43

TO55L

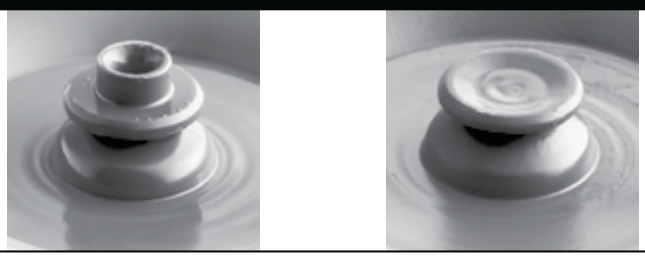
DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.15" (9.6")	1.257"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Very Low Stall

APPLICATION | CODES
2004-08 Highlander 3.3L, Camry 3.3L, Sienna 3.3L
04 Ink Stamp, 02

TSB: 42, 43

THESE TWO PILOTS INTERCHANGE



NOTES

TOYOTA
U340E, U341E

TO3701

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.875” (7.9”)	**1.100”**	**26**	**6 Pads, 8mm x 1.25**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
2008-11 Scion XD 1.8L, 2009 Corolla 1.8L
40, 41, R

TO22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.875” (7.9”)	**1.100”**	**26**	**6 Pads**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
1996-Up Prizm, 2002 Vibe 1.8L, 2004 Matrix
05, 202, J08, Some 30A070, 30A360, A131, Pink Circle w/ White Dot

TO33

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.875” (7.9”)	**1.100”**	**26**	**6 Pads, 8mm x 1.25**

NOTES
Lock Up
High Stall

APPLICATION | CODES
2003-07 Vibe 1.8L, 87-Up Celica, Corolla, MR2, Matrix, Paseo, Prizm, 92-98 Tercel
07, 7, R, Some 30A070, 30A108, R290

TO33L

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (7.9")	1.100"	26	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
Can Use TO73 w/ 8mm Bolts

APPLICATION | CODES
2000-05 Celica GTS 1.8L
13, 14, 19, Blue Circle

TO73

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (7.9")	1.100"	26	6 Pads, 8mm x 1.25

NOTES
Lock Up
Slightly Low Stall
Can Use TO33L w/ 9mm Bolts

APPLICATION | CODES
2000-05 Celica GTS 1.8L
12, 19, Y/030417

TO78

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.188" (9.25")	.825"	20	6 Pads, 8mm x 1.25

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2003-07
43A080, 43A090

TO71

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.8" (9.5")	1.257"	20	6 Pads, 9mm x 1.25

NOTES
Lock Up
Low Stall
1.40" Tall Pilot

APPLICATION | CODES
2003-08
53A010, 53A011, Blue Dot

TO4701

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.25” (9.625”)	**1.256”**	**22**	**6 Pads, 9mm x 1.25**

NOTES

Lock Up
Very Low Stall

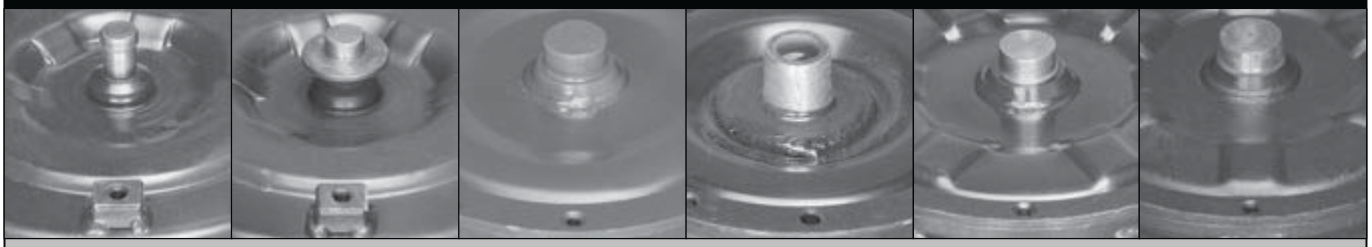
APPLICATION | CODES

2006-12 ES350 3.5L, Camry 3.5L

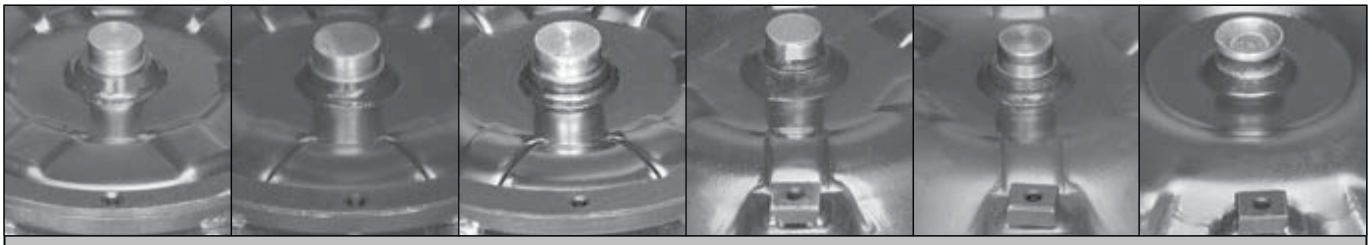
P, 423KA

NOTES

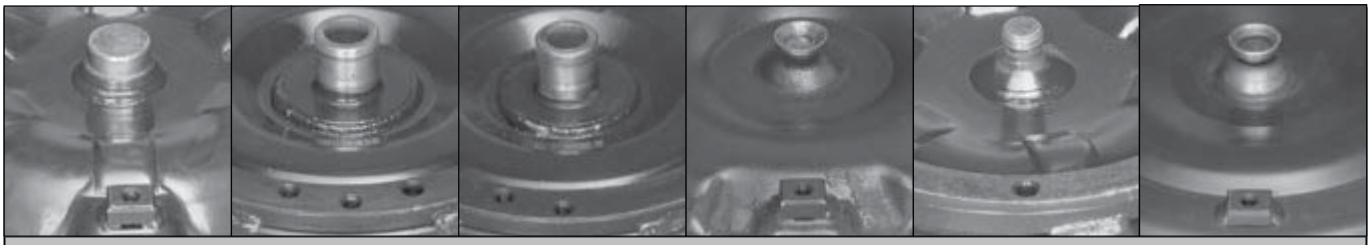
Toyota Pilots



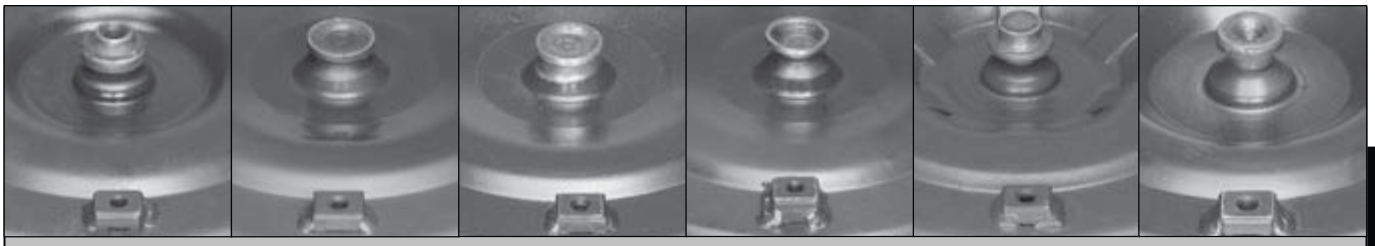
J29	J30	TO1	TO2	TO3	TO4



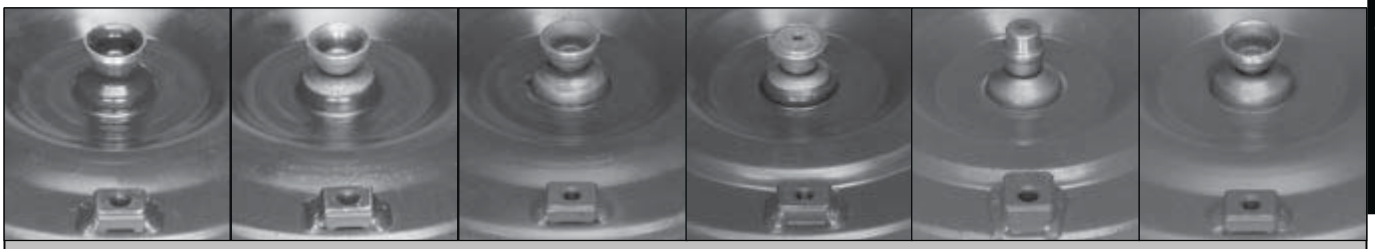
TO6	TO7	TO8	TO9	TO10	TO12



TO13	TO14	TO14A	TO15	TO16	TO17



TO18	TO18A	TO18AH	TO18B	TO18C	TO19



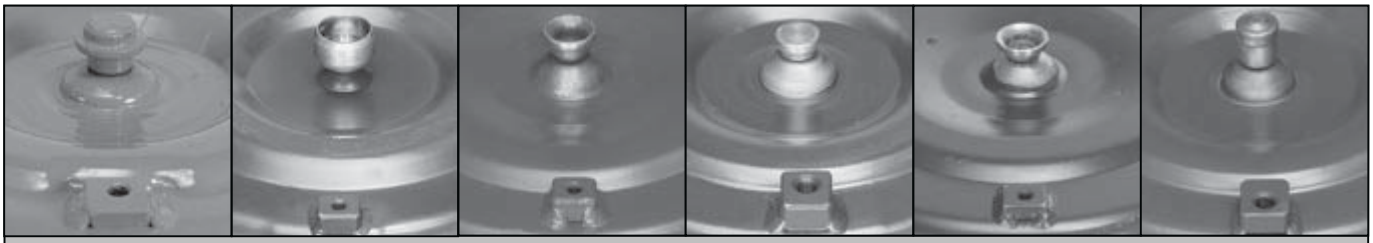
TO19B	TO19C	TO20	TO22	TO23	TO24

TO25	TO26	TO26-20	TO28	TO29	TO29LS

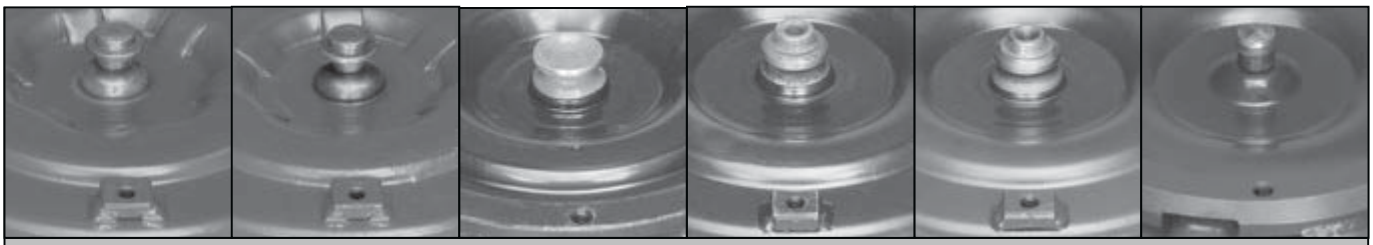
TOYOTA
PILOTS

Toyota Pilots

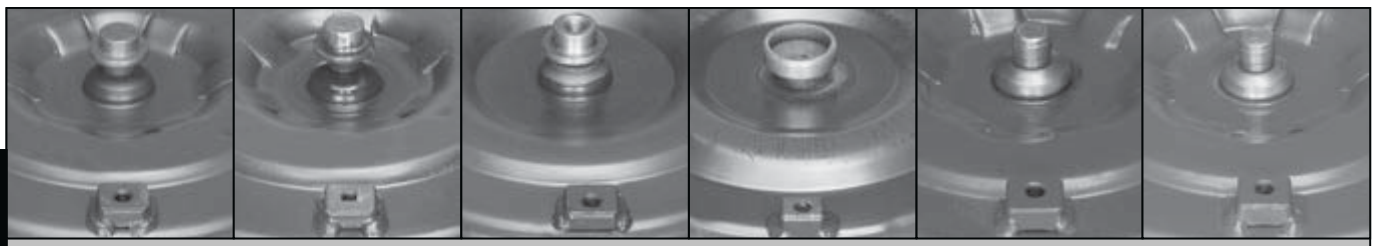
TO30	TO31	TO32	TO32B	TO32LS	TO33



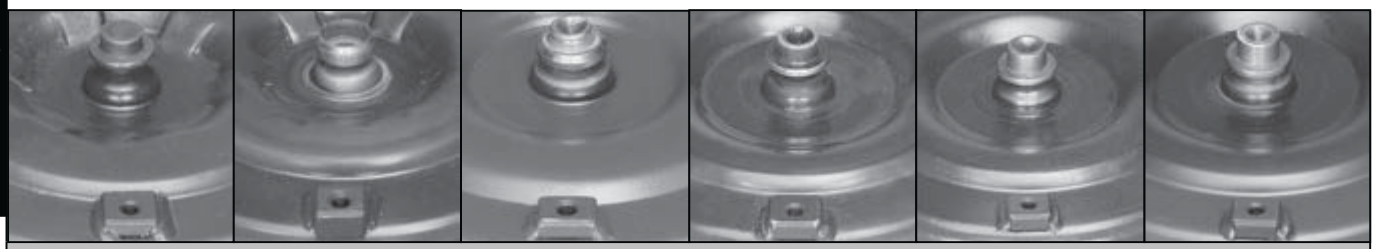
TO33L	TO34	TO36	TO37	TO38	TO39



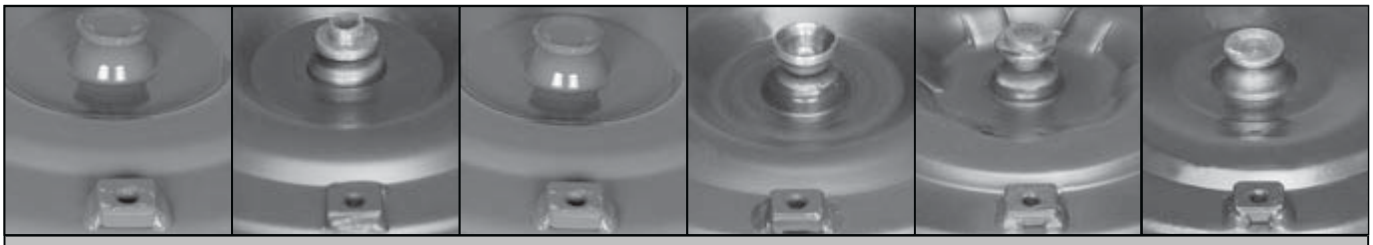
TO40	TO40B	TO41	TO42	TO42B	TO43



TO44	TO44A	TO45	TO46	TO47	TO48



TO49	TO50	TO51	TO52	TO53	TO53LS

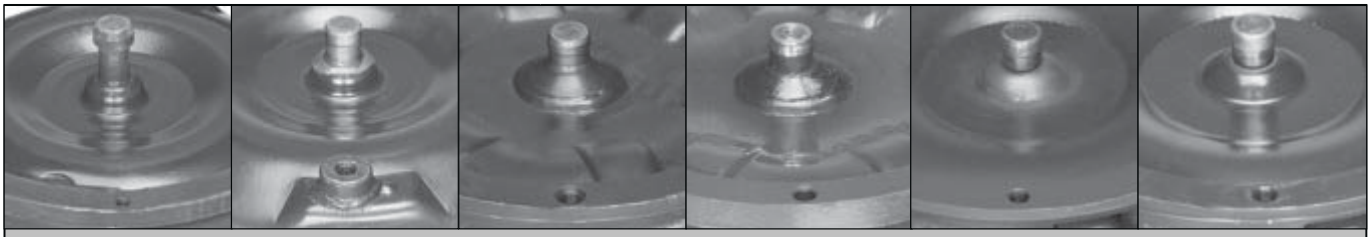


TO55	TO55A	TO55L	TO58	TO59	TO60

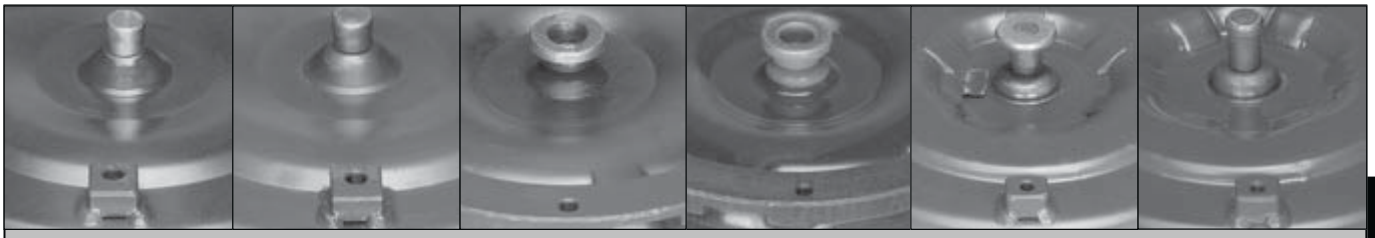
Toyota Pilots

TO65	TO66	TO67	TO68	TO70	TO71

TO73	TO75	TO75L	TO78	VO6	VO7



VO8	VO9	VO16	VO17	VO18	VO19



VO20	VO21	VO22	VO23	VO24	VO25

VO29	TO55 (9.8”)	TO55A (10.25”)

PILOTS MAY VARY

Many Toyota converters are identical except the pilot design. If the converter matches the application, dimension and codes but the pilot is slightly different, it may interchange. (Refer to these photos for examples of Pilots that interchange)

VOLVO
NON LOCK UP

TO31

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.75")	.394"	26	6 Pads

NOTES
Non Lock Up
High Stall

APPLICATION | CODES
A340 Series, 1983-Up

TO29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
9.5" (7.75")	1.100"	26	6 Pads, 9mm x 1.25

NOTES
Non Lock Up
High Stall

APPLICATION | CODES
A340 Series, 1983-Up
Black Dot, Purple Dot

VO22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (10.25")	1.575"	26	4 Holes

NOTES
Non Lock Up
High Stall
11" Mounting Ring

APPLICATION | CODES
AW70, AW71, 1981-Up 2.8L 6 Cyl. Volvo

VO18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.375" (8.5")	.750"	26	4 Holes, 10mm x 1.25

NOTES
Non Lock Up
High Stall

APPLICATION | CODES
AW70, AW71, 1981-Up 4 Cyl. Volvo (Including 240 & Wagon 2.3L)
M, ODM, ODS

VO19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.375" (8.5")	.750"	26	4 Holes, 10mm x 1.25

NOTES
Non Lock Up
Low Stall

APPLICATION | CODES
AW70, AW71, 1981-Up 4 Cyl. Volvo (Including 940 2.3L Turbo)
3A, 9G, ODM, ODS

VO6

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (10.25")	1.575"	26	4 Holes

NOTES
Non Lock Up
Extended Ring
Cooling Shroud

APPLICATION | CODES
AW55, BW55, 1976-81 2.7L 6 Cyl.
5011, 5019

VO7

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (8.5”)	**.750”**	**26**	**4 Holes**

NOTES
Non Lock Up
Cooling Shroud

APPLICATION | CODES
AW55, BW55, 1973-84 4 Cyl.
5011, 5019

VO16

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (8.5”)	**.750”**	**26**	**4 Holes**

NOTES
Non Lock Up
w/ Extended Ring

APPLICATION | CODES
AW55, BW55, 1976-81 4 Cyl.
5009 (Some)

VO9

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (8.5)	**.750”**	**26**	**4 Pads**

NOTES
Non Lock Up
Cooling Shroud

APPLICATION | CODES
AW55, BW55, 1979-82 Volvo 4 Cyl., 240 Wagon, Saab
5007, 5015, 5021

VO23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10”)	**1.575”**	**26**	**4 Holes**

NOTES
Non Lock Up
Low Stall
11.25” Mounting Ring

APPLICATION | CODES
AW70, AW71, 1981-Up 2.8L 6 Cyl. Volvo

VOLVO
LOCK UP

VO28

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.25" (9.5")	.825"	26	6 Pads, .340" Tall

NOTES
Lock Up
Med. Stall
1.25" Tall Pilot

APPLICATION | CODES
AW50-40LE, AW55-50SN, 1993-97 Volvo 850 2.3L, 2.4L

40A020, Q2, HO6, 16U

VO30

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.625" (9.625")	.825"	27	6 Pads, 8mm x 1.25

NOTES
Lock Up
1600-1800 Stall
Carbon Woven

APPLICATION | CODES
4T65E, 1999-02 Volvo S80 2.9L

FLTV, FLVV, 24211943, 24216629

TSB: 106, 109, 112, 113, 116, 117, 165

VO32

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.625" (9.625")	.825"	27	6 Pads

NOTES
Lock Up
1500-1700 Stall
Carbon Woven

APPLICATION | CODES
4T65E, 1999-06 S80 2.8L Turbo, 2002-06 XC90 2.9L

FMTV, FMVV, 24211944, 24216630

TSB: 106, 109, 112, 113, 116, 117, 165, 1064

VO10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (8.5")	.750"	27	4 Holes

NOTES
Lock Up

APPLICATION | CODES
ZF4HP22, ZF4HP24, 1984-Up Volvo 740GL, GLe

AG, C3, G, U3, UE

VO27

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (11.75")	1.257"	27	8 Holes

NOTES
Lock Up
132T Ring Gear

APPLICATION | CODES
ZF5HP18, 1995-Up Volvos & Porsche 911

K10

BMW22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.5")	.750"	27	4 Pads

NOTES
Lock Up
Can use VO10

APPLICATION | CODES
ZF4HP22, ZF4HP24, 1986-Up Volvo 760Gi Turbo Diesel

C3, U3, UE

TO23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (8.5")	.825"	26	3 Pads, 10mm x 1.25

NOTES
Lock Up
High Stall
Pilot Stepped .650" to .825"

APPLICATION | CODES
A40 Series, 1996-97 Tracker 1.6L, 1995-98 X-90, 1992-98 Sidekick 1.6L, 1.8L Some Geo Prizm

10A610, Red Circle w/ Blue Dot

VO15

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.75")	.945"	27	3 Pads

NOTES
Lock Up

APPLICATION | CODES
ZF4HP22, ZF4HP24, 1984-Up 760GLe Turbo Diesel, 740GLe

C2, N3

VO13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.75")	1.040"	27	3 Holes, 8mm x 1.25

NOTES
Lock Up
Med. Stall
Pilot Stepped .945" to 1.040"

APPLICATION | CODES
ZF4HP22, ZF4HP24, 1984-Up Volvo 740, 760

C2, N3

VO31

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (9.25")	.825"	26	6 Pads, .340" Tall

NOTES
Lock Up
Low Stall
1.30" Tall Pilot

APPLICATION | CODES
AW50-40LE, AW55-50SN, 1993-97 Volvo 850 2.3L, 2.4L

42A020, Q2, HO6, 16U

VO29

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.375" (9.625")	.825"	20	6 Pads, 8mm x 1.25

NOTES
Lock Up
High Stall
1.63" Tall Pilot

APPLICATION | CODES
A340 Series, 1993-97 Volvo 960 2.9L (Including 92 960 Wagon)

AW4, 20A050, 8U, Red Circle w/ Green Dot, Pink Circle

TO26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (8.5")	.750"	26	6 Pads, 10mm x 1.25

NOTES
Lock Up
High Stall

APPLICATION | CODES
A340 Series, 1986-Up

AW4, Blue Circle w/ Green Dot

VOLVO
LOCK UP

VO25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (9.6")	**.825"**	**20**	**6 Pads**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
AW70L, AW72L, A340, 1991-97 Volvo 960, S90
20A050

VO24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.4" (9.625")	**1.375"**	**20**	**6 Pads, 8mm x 1.25**

NOTES
Lock Up
High Stall

APPLICATION | CODES
AW70L, AW72L, A340 1991-97 Volvo
Blue, Pink or Red Dot

VO20

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (8.5")	**.750"**	**20**	**4 Pads**

NOTES
Lock Up
High Stall

APPLICATION | CODES
AW70L, AW72L, 1991-97 Volvo
2G, 5W, 7M, 9A, 9F, 9J, Blue & Pink Dot

VO21

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.5" (8.5")	**.750"**	**20**	**4 Pads**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
AW70L, AW72L, 1991-97 Volvo
OD

VO3901

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.565" (9.565")	**.824"**	**23**	**6 Pads, 10mm x 1.25**

NOTES
Lock Up
Low Stall

APPLICATION | CODES
TF-80SC 2005-11 Volvo XC90 4.4L
TF-80SC, 70A020

TSB: **56**

VO26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75" (9.75")	**.945"**	**27**	**3 Pads**

NOTES
Lock Up

APPLICATION | CODES
ZF4HP22, ZF4HP24, 1984-Up Audi, Volvo
J8

VW9800

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.125" (9.25")	**.825"**	**20**	**3 Studs, 10mm x 1.0**

NOTES
Lock Up
Med. Stall
114T Ring Gear
Replaces DA90, VW0980

APPLICATION | CODES
2000-05 Jetta 1.8L (Not 2.8L)
J, J4, Yellow Paint, White Dot

TSB: **179, 180, 181**

VW9801

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.25")	**.825"**	**20**	**3 Studs, 10mm x 1.0**

NOTES
Lock Up
Med. Stall
114T Ring Gear
Replaces VW0981

APPLICATION | CODES
2002-03 Jetta 2.8L Gas
≠19

TSB: **179, 180, 181**

VW9802

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75" (9.25")	**.825"**	**20**	**3 Studs, 10mm x 1.0**

NOTES
Lock Up
Low Stall
114T Ring Gear
Replaces VW0982

APPLICATION | CODES
2004-08 Jetta 1.9L Diesel
≠23

TSB: **179, 180, 181**

PCH59

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.563" (10.125")	**.628"**	**24**	**3 Pads, 10mm x 1.0**

NOTES

Captive Clutch
Low Stall
Replaces VW23 & VW15901

APPLICATION | CODES

2004 Porsche Cayenne

20, D7344, 09D-323-521

TSB: **73, 157**

VW59

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.85" (10.125")	**.629"**	**24**	**3 Pads, 10mm x 1.0**

NOTES

Lock Up
Low Stall

APPLICATION | CODES

2002-11 VW Touareg 4.2L

571T, 50A150, 05, Pink Circle, 09D-323-571T

TSB: **73, 157**

NOTES

BMW1501

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (9.25")	1.335"	20	6 Studs, 10mm x 1.0

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
2005-11 BMW Mini Cooper S Type 1.6L
46A100

TSB: 56, 143

VW1502

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (9.25")	.825"	20	6 Studs, 10mm x 1.0

NOTES
Lock Up
Slightly Low Stall

APPLICATION | CODES
2003-06 Audi TT 1.8L 2wd
571D, 46A010, 072-08122, 09G-323-571D

TSB: 56, 143

VW1501

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (9.25")	.825"	20	6 Studs, 10mm x 1.0

NOTES
Lock Up
Low Stall

APPLICATION | CODES
571A, 46A110, 079-00937, 09G-323-571A

TSB: 56, 143

VW1503

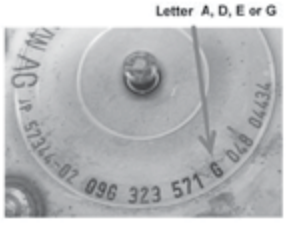
DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.4" (9.25")	.825"	20	6 Studs, 10mm x 1.0

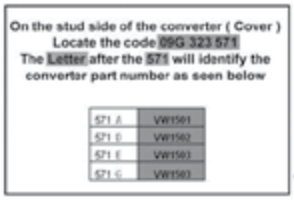
NOTES
Lock Up
Slightly Low Stall

APPLICATION | CODES
2003-10 Beetle 2.0L
571E, 571G, 46A040, 46A060, QBAA, QEAA, QHAA, 09G-323-571E, 09G-323-571G

TSB: 56, 143

09G Converter Identification





VW18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (9.25”)	.825”	36	3 Studs, 10mm x 1.0

NOTES
Damper Lock Up
Med. Stall
No Ring Gear
Pilot Stepped .630” to .825”

APPLICATION | CODES
1990-94 w/ 3 Sets of Splines
LBCA, LCCA, 095

TSB: 6, 91, 92, 93, 94, 162

VW20A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (9.25”)	.825”	36	3 Studs, 10mm x 1.0

NOTES
Clutch Lock Up
Med. Stall
No Ring Gear
Pilot Stepped .630” to .825”

APPLICATION | CODES
1995-Up w/ 2 Sets of Splines, Hollow Stud Center
LCDC

TSB: 6, 91, 92, 93, 94, 162

VW21A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (9.25”)	.825”	36	3 Studs, 10mm x 1.0

NOTES
Clutch Lock Up
Med. Stall
No Ring Gear
Pilot Stepped .630” to .825”

APPLICATION | CODES
1995-Up w/ 2 Sets of Splines, Bearing in Center

TSB: 6, 91, 92, 93, 94, 162

VW17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (9.25”)	.825”	36	3 Studs, 10mm x 1.0

NOTES
Damper Lock Up
Med. Stall
125T Gear
Pilot Stepped .630” to .825”

APPLICATION | CODES
1990-94 w/ 3 Sets of Splines
QACA, QADC, QCCR, 095, 096

TSB: 6, 91, 92, 93, 94, 162

VW20

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (9.25”)	.825”	36	3 Studs, 10mm x 1.0

NOTES
Clutch Lock Up
Med. Stall
125T Gear
Pilot Stepped .630” to .825”

APPLICATION | CODES
1995-Up w/ 2 Sets of Splines, Hollow Stud Center
QACD, QADB, QADC, QBDB, QBDC, QCDC, QCDR, QDDT, 01M

TSB: 6, 91, 92, 93, 94, 162

VW21

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5” (9.25”)	.825”	36	3 Studs, 10mm x 1.0

NOTES
Clutch Lock Up
Med. Stall
125T Gear
Pilot Stepped .630” to .825”

APPLICATION | CODES
1995-Up w/ 2 Sets of Splines, Bearing in Center
QADD, QBDD, QBDJ, QCDD, QDDJ, QDDT, 01M

TSB: 6, 91, 92, 93, 94, 162

VW13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.75")	.825"	26	3 Pads

NOTES	APPLICATION | CODES
Non Lock Up .750" Hub Height Replaces VW4	1975-Up Audi 80, 90 090, Y

VW15

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (9.875")	.825"	26	4 Pads

NOTES	APPLICATION | CODES
Non Lock Up	1975-Up Audi 5000S (087) N, W

VW11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (10")	.825"	26	3 Pads

NOTES	APPLICATION | CODES
Non Lock Up 130T Ring Gear	1975-Up Vanagon (090) 003

AU2

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (10")	.825"	26	3 Pads

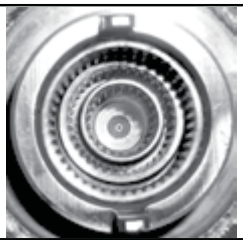
NOTES	APPLICATION | CODES
Non Lock Up 3000-3200 Stall .567" Hub Height	1975-Up Audi 100LS, 4000, 5000, Quattro, Porsche G, Q

VW14

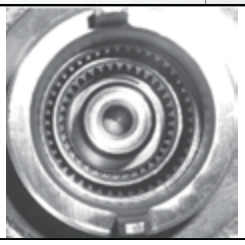
DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.5" (10")	.825"	26	3 Pads

NOTES	APPLICATION | CODES
Non Lock Up 2100-2300 Stall .580" Hub Height	1975-Up Audi 100LS, 4000, 5000, Quattro, Porsche K, 010, 087, 089

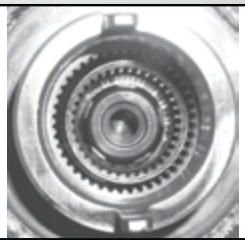
TO ID VW17, VW20, VW21



VW17 (3 Sets of Splines)



VW20 (2 Sets of Splines, Hollow Center Stud)



VW21(2 Sets of Splines, w/sleeve bearing)

BMW16

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10" (9.25")	**.475"**	**29**	**3 Pads**

NOTES
Non Lock Up

APPLICATION | CODES
1989-Up Peugeot, Saab, 9000S
K8

SA8A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (9.25")	**.825"**	**34**	**3 Pads, 10mm x 1.5**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1998 Saab 9000 3.0L
N19

SA7

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.25")	**.629"**	**34**	**3 Pads**

NOTES
Non Lock Up

APPLICATION | CODES
1987-97 Saab 9000 2.3L, Alfa Romeo
M6

SA8

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.25")	**.825"**	**34**	**3 Pads**

NOTES
Non Lock Up

APPLICATION | CODES
1987-97 Saab 900
Q15

SA4

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.25")	**1.100"**	**34**	**3 Pads**

NOTES
Non Lock Up

APPLICATION | CODES
1987-97 Saab 9000S Turbo
C6, D6

AU3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.25")	**.629"**	**34**	**3 Pads, 10mm x 1.0**

NOTES
Non Lock Up
Med. Stall

APPLICATION | CODES
1988-Up Audi 100CS
148-001, F11, R35

J18

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.625")	**1.575"**	**34**	**3 Pads**

NOTES
Non Lock Up

APPLICATION | CODES
1988-Up Eagle Premier 3.0L, Monaco 3.0L
G7, R34, Fitchel Sachs

NOTES

ZF1890

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75” (9.75”)	**.825”**	**23**	**3 Pads, 10mm x 1.5**

NOTES	APPLICATION | CODES
Lock Up **High Stall**	**2004-08 Forenza 2.0L** **323-023**

NOTES

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BMW12

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10” (9”)	1.257”	27	3 Pads

NOTES
Lock Up

APPLICATION | CODES
1984-85 318i, 1986-E87 325i
U2, U4, V2, V4

VO10

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.75” (8.5”)	.750”	27	4 Holes

NOTES
Lock Up

APPLICATION | CODES
1984-Up Volvo 740GL, GLe
AG, C3, G, U3, UE

BMW22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (8.5”)	.750”	27	4 Pads

NOTES
Lock Up
Can use VO10

APPLICATION | CODES
1986-Up Volvo 760Gi Turbo Diesel
C3, U3, UE

BMW19

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (8.5”)	1.100”	27	4 Pads

NOTES
Lock Up

APPLICATION | CODES
1987-96 Peugeot 505 Diesel
H5, M4

BMW13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (8.5”)	1.257”	27	4 Studs

NOTES
Lock Up

APPLICATION | CODES
1984-Up Continental 2.4L Diesel
A3

BMW34

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (8.5”)	1.257”	27	4 Pads

NOTES
Lock Up

APPLICATION | CODES
1983-88 325e 2.5L, 1983-87 533i
A3

BMW11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9”)	1.257”	27	3 Holes

NOTES
Lock Up
Can use BMW17

APPLICATION | CODES
1984-Up BMW 325e, 528e, 628CSi, 735i
L1, N2, R1, R2, R3, S1, U1, W2

BMW17

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9”)	1.257”	27	3 Pads

NOTES
Lock Up

APPLICATION | CODES
1987-91 BMW 325i, 1984-93 535Si, 1988-94 850
C7, R2, R7, T8, W2, 90, 06

VO15

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.75”)	.945”	27	3 Pads

NOTES
Lock Up
See Also VO13
Med. Stall
Pilot Stepped .945” to 1.040”

APPLICATION | CODES
1984-Up 760GLe Turbo Diesel, 740GLe
C2, N3

VO13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (9.75”)	1.040”	27	3 Holes, 8mm x 1.25

NOTES
Lock Up
Med. Stall
Pilot Stepped .945” to 1.040”

APPLICATION | CODES
1984-Up Volvo 740, 760
C2, N3

BMW23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11” (10.25”)	1.565”	27	4 Pads

NOTES
Lock Up

APPLICATION | CODES
1987-96 Peugeot 505
R4

BMW21

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75” (9”)	**1.257”**	**27**	**3 Pads**

NOTES
Lock Up

APPLICATION | CODES
1984-86 BMW 745i
A9, P1

BMW24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75” (9”)	**1.376”**	**27**	**4 Pads, 10mm x 1.5**

NOTES
Lock Up
Med. Stall
Pilot Stepped 1.060” to 1.376”

APPLICATION | CODES
1988-97 Jaguar XJ6, Range Rover
K2

JA3

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75” (9.25”)	**1.257”**	**27**	**3 Pads**

NOTES
Lock Up

APPLICATION | CODES
1988-97 Jaguar XJ6 w/ 3 Pads, 1984-93 535i
AG, H3, T7, Z1, Z6

VO26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.75” (9.75”)	**.945”**	**27**	**3 Pads**

NOTES
Lock Up

APPLICATION | CODES
1984-Up Audi, Volvo
J8

BMW37

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (9”)	**1.335”**	**27**	**4 Holes, 10mm x 1.5**

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1994-04 Range Rover, Discovery 4.0L
D19, L19, U27

BMW42

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.375" (8.95")	**1.650"**	**27**	**4 Pads, 10mm x 1.5**

NOTES

Lock Up
Med. Stall
Pilot Stepped 1.337" to 1.650"

APPLICATION | CODES

1987-Up Range Rover 4.6L

B18, M19, T27

JA5

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.625" (9.2")	**1.257"**	**27**	**6 Pads**

NOTES

Lock Up

APPLICATION | CODES

1988-97 Jaguar XJ6

K7

BMW25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12.75" (10.5")	**1.257"**	**27**	**3 Pads**

NOTES

Lock Up
Two Body Seam Welds

APPLICATION | CODES

1989-92 735i, 95-01 750, 88-94 850i, 80-86 Lincoln

E11, O7, 07

VO27

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (11.75")	1.257"	27	8 Holes

NOTES
Lock Up
132T Ring Gear

APPLICATION | CODES
1995-Up Porsche 911
K10

BMW36

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (10.375")	1.257"	27	3 Pads

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1992-7/93 BMW 530i, Used w/ 1056-000-087 Trans.
149-002, A11

BMW35

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (10.375")	1.257"	27	4 Pads, 10mm x 1.5

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
7/93-95 BMW 530i 3.0L, Used w/ 1056-000-088 Trans.
E18

BMW53

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (9.25")	1.257"	27	3 Pads, 10mm x 1.5

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1997-99 BMW M3 3.0L, 3.2L
149-003, B26, 231-103-4-8-11-96

BMW51

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (9.25")	1.257"	27	3 Pads, 10mm x 1.5

NOTES
Lock Up
Med. Stall

APPLICATION | CODES
1995-98 BMW M3 3.0L, 3.2L, 1992-95 BMW 320i
149-003, O21, Y12, 231-103-4-8-11-96

BMW52

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (8.825")	1.325"	27	4 Pads

NOTES
Lock Up

APPLICATION | CODES
1993-96 BMW M3, Used w/ 1056-000-097 Trans.
O21

AU24

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.8" (9.25")	.629"	27	3 Nuts, 10mm x 1.0

NOTES
Captive Clutch
Low Stall
Mounting Ring

APPLICATION | CODES
12/01-4/02 VW Passat 4.0L (4 Motion), Passat 4.0L 01V 01-02, Used w/ 1060-040-100 Trans.

156-207, A73, B33, Q56

AU20

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	.629"	27	3 Pads, 10mm x 1.0

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
7/95-7/97 A4 Avant, Sedan 2.8L, 10/95-4/97 A4 Quattro 2.8L, 1996-08 A4 2.8L

156-200, N24, T45, 01V

AU21

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	.629"	27	3 Pads, 10mm x 1.0

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
198/97-12/98 A8 Sedan 3.7L,
Used w/ 1060-030-006 Trans.

B27, B35, G31, J28, Some N22

AU22

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	.629"	27	3 Pads, 10mm x 1.0

NOTES
Lock Up
Slightly Low Stall

APPLICATION | CODES
10/96-2/97 & 5/00-10/01 A4, A6 Avant, Sedan 2.8L, 8/99-4/02 Quattro, Passat 2.8L

156-202, K36, N19, N28, Some N22

AU23

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	.629"	27	3 Pads, 10mm x 1.0

NOTES
Lock Up
Slightly Low Stall

APPLICATION | CODES
3/97-7/99 A4 & A6 Avant, Sedan 2.8L, 8/97-8/00 Quattro, Passat 2.8L

156-203, F31, Q45

AU25

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT

NOTES

APPLICATION | CODES
9/02-2003 Allroad Quattro,
Used w/ 1060-040-093 Trans.

B73, P56

AU26

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	**.825"**	**27**	**3 Pads, 10mm x 1.0**

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
2004-05 VW Jetta, Passat 2.0L Turbo Diesel
156-200, 23, Q61X, X64

AU11

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (9.25")	**.629"**	**27**	**3 Pads, 10mm x 1.0**

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
7/96-10/01 A4 Avant, Sedan 1.8L, 8/97-2003 A4 Quattro 1.8L, 7/97-8/00 Passat 1.8L, 2.0L Turbo, 1998, A4 1.8L Turbo
156-201, A33, B31, K28, M28

AU13

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (9.25")	**.629"**	**27**	**3 Nuts, 10mm x 1.0**

NOTES
Captive Clutch
Med. to Low Stall

APPLICATION | CODES
9/01-03 A4, A6 Quattro 3.0L, 5/99-02 A6, S4 Quattro 2.7L, A6 2.7L Turbo 2002
156-208, 156-208-08-02, 73, A9, B25, F35, K73, T45, Y61

AU13909

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.25")	**.629"**	**27**	**3 Pads, 10mm x 1.0**

NOTES
Captive Clutch
Med. Stall
Replaces AU31

APPLICATION | CODES
2001 Audi S8 4.2L V8

PCH54

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (10.03")	**1.18"**	**27**	**3 Pads, 8mm x 1.25**

NOTES
Lock Up
Slightly High Stall
2 Holes per Pad

APPLICATION | CODES
2000-08 Porsche Boxster 2.5L
156-201, A32

PCH54A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (10.03")	**1.18"**	**27**	**3 Pads, 8mm x 1.25**

NOTES
Lock Up
Slightly High Stall
2 Holes per Pad

APPLICATION | CODES
2000-08 Porsche Boxster 2.7L
156-200, H44

BMW12901

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.25")	1.257"	27	3 Pads, 10mm x 1.5

NOTES
Captive Clutch
Slightly Low Stall
Replaces BMW64 & ZF12901

APPLICATION | CODES
1999-UP BMW 330i, 330Ci, 2001-02 530i, Used w/ 1060-000-010 Trans.

156-203, B61, U38

BMW43

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	1.257"	27	3 Pads, 10mm x 1.5

NOTES
Lock Up
Med. to High Stall

APPLICATION | CODES
2000-05 323i 2.5L, Various BMW

N33, Some A14

BMW61

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	1.257"	27	3 Pads, 10mm x 1.5

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
2000-Up BMW 320i, Used w/ 1060-000-008 Trans.

T51

BMW62

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	1.257"	27	3 Pads, 10mm x 1.5

NOTES
Lock Up
Slightly High Stall

APPLICATION | CODES
2000-Up BMW 323i, 323Ci, Used w/ 1060-000-005 Trans.

156-208, C51, J28, N33, S38

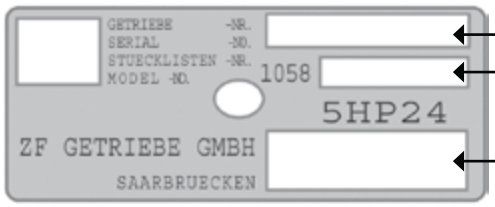
BMW63

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.875" (9.25")	1.257"	27	3 Pads, 10 mm 1.5

NOTES
Lock Up
Low Stall

APPLICATION | CODES
2000-Up BMW 325i, 325Ci, 2001-Up 525i, Used w/ 1060-000-009 Trans.

156-209, C51



Transmission Serial #

Used With Transmission #

Vehicle Mfg. Transmission #. i.e. BMW, Audi, etc.

AU13908

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.25")	.629"	27	3 Pads, 10mm x 1.0

NOTES
Captive Clutch
Med. Stall
Replaces AU30

APPLICATION | CODES
1997-Up A8 4.2L, 4/99-9/02 A6 & A8 Quattro 4.2L, Used w/ 058-020-xxx Except -029 & -030

157-100, G29, P35

AU13909

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (9.25")	.629"	27	3 Pads, 10mm x 1.0

NOTES
Captive Clutch
Med. Stall
Replaces AU31

APPLICATION | CODES
5/00-6/01 S8 A8 Quattro 4.2L, 6/01-03 S6 Quattro 4.2L, Used w/ 1058-020-029, 1058-020-030 Trans.

157-101, Q35

BMW13900

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11" (10.44")	1.257"	27	4 Pads, 10mm x 1.5

NOTES
Captive Clutch
Med. Stall
Replaces BMW39 & BMW70

APPLICATION | CODES
1996-01 BMW 740i, Used w/ 1058-000-005, 1058-000-016 Trans.

157-100, D21, F38, F39, L31

BMW13901

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (10.438")	1.257"	27	4 Pads, 10mm x 1.5

NOTES
Captive Clutch
Med. Stall
Replaces BMW75 & ZF13901

APPLICATION | CODES
9/98-Up BMW 540i, 9/98-Up BMW 740i, 740iL, Used w/ 1058-000-021 Trans.

157-100, N35

BMW13902

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (10.438")	1.257"	27	4 Pads, 10mm x 1.5

NOTES
Captive Clutch
Med. Stall
Replaces BMW76 & ZF13902

APPLICATION | CODES
9/98-Up BMW 540i, 9/98-Up BMW 740i, 740iL, Used w/ 1058-000-022 Trans.

157-104, L35

BMW13903

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (10.438")	1.257"	27	4 Pads, 10mm x 1.5

NOTES
Captive Clutch
Med. Stall
Replaces BMW77 & ZF13903

APPLICATION | CODES
1998-Up BMW X5 4.4L, 2003-Up Range Rover 4.4L V8, Used w/ 1058-000-029, 1058-000-032 Trans.

157-102, A85, F38

BMW13904

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.975" (10.438")	**1.257"**	**27**	**4 Holes, 10mm 1.5**

NOTES
Captive Clutch
Med. Stall
Replaces BMW78 & ZF13904

APPLICATION | CODES
2001-Up BMW X5 4.6L, Used w/ 1058-000-034 Trans.
182-002, L51

JA13905

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.9" (11.5")	**1.375"**	**27**	**3 Pads, 10mm x 1.5**

NOTES
Captive Clutch
Med. Stall
Replaces JA10 & ZF13905

APPLICATION | CODES
1997-98 Jaguar XJ8 3.2L, 1998 Jaguar XJ8 4.0L, XK8 4.0L, Used w/ 1058-000-014, 1058-000-024 Trans.
P32

JA13906

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11"	**1.375"**	**27**	**3 Pads, 10mm x 1.5**

NOTES
Captive Clutch
Low Stall
Replaces JA11 & ZF13906

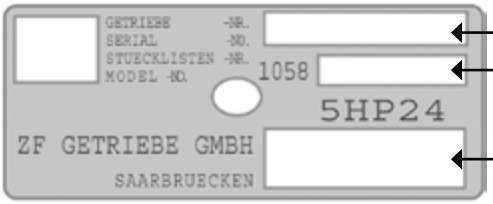
APPLICATION | CODES
1997-00 Jaguar XJ8, XK8 4.0L, Used w/ 1058-000-009, 1058-000-013, 1058-000-015 Trans.
K35, Q20, Q29, Q32

JA13907

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT

NOTES
Replaces JA12 & ZF13907

APPLICATION | CODES
1999 Jaguar XJ8 4.0L, XK8 4.0L, 1998-02 Jaguar XJ8 3.2L, Used w/ 1058-000-027, 1058-000-028 Trans
J35



Transmission Serial #

Used With Transmission #

Vehicle Mfg. Transmission #. i.e. BMW, Audi, etc.

BMW32

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (10.375”)	**1.257”**	**27**	**4 Holes, 10mm 1.5**

NOTES

Lock Up
Med. Stall

APPLICATION | CODES

1991-03 540i, 740i, 740iL, 840i, 840Ci, Used w/ 1055-000-xxx Trans. Including 010, 011, 026, 029, 030, 031

B13, F21, R13, T26, U23

BMW80

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
12” (10.375”)	**1.257”**	**27**	**4 Holes, 10mm x 1.5**

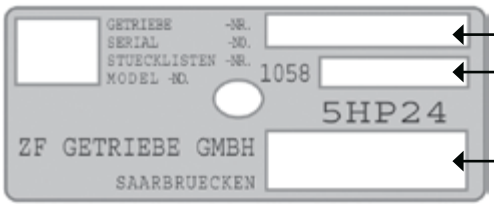
NOTES

Captive Clutch
Med. Stall

APPLICATION | CODES

1994-2001 750iL 5.4L, 850Ci, Used w/ 1055-000-xxx Trans. Including 017, 027, 028, 032, 039, 040

144-101, U23



Transmission Serial #

Used With Transmission #

Vehicle Mfg. Transmission #. i.e. BMW, Audi, etc.

BMW55

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.53” (9.25”)	**1.257”**	**27**	**3 Pads, 10mm x 1.5**

NOTES
Captive Clutch
Slightly High Stall

APPLICATION | CODES
2000-11 BMW 530i 3.0L
209-302, G72

TSB: **185, 186, 187, 188**

AU14

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.69” (9.25”)	**.629”**	**27**	**3 Nuts, 10mm x 1.0**

NOTES
Captive Clutch
Slightly Low Stall

APPLICATION | CODES
2004-12 Audi A6 Awd
000-014, T84

TSB: **185, 186, 187, 188**

NOTES

BMW45

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
			4 Pads

NOTES
Captive Clutch
Med. to Low Stall

APPLICATION | CODES
2006-10 Range Rover 4.2L
206-700

TSB: **185, 186, 187, 188**

BMW95

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125" (10.5")	**1.257"**	**27**	**4 Lugs, 10mm x 1.5**

NOTES
Captive Clutch
Med. Stall

APPLICATION | CODES
2002-09 BMW 745i 4.4L
206-507, L62, L65, V73, Z74

TSB: **185, 186, 187, 188**

BMW95A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.28" (11.44")	**1.257"**	**27**	**4 Holes, 10mm 1.5**

NOTES
Captive Clutch
Med. to Low Stall

APPLICATION | CODES
2002-09 BMW 750Li 4.8L
000-010, 000-193, G85, J85

TSB: **185, 186, 187, 188**

AU14

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
10.69" (9.25")	**.629"**	**27**	**3 Nuts, 10mm x 1.0**

NOTES
Captive Clutch
Slightly Low Stall

APPLICATION | CODES
2004-11 Audi A6 Awd 4.2L
000-014, T84

TSB: **185, 186, 187, 188**

JA95

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.125” (8.875”)	**1.375”**	**27**	**4 Nuts, 10mm x 1.5**

NOTES
Captive Clutch
Med. Stall

APPLICATION | CODES
2002-07 Jaguar S Type 3.0L
206-205, F65, P62

TSB: **185, 186, 187, 188**

JA95A

DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT
11.9” (11.5”)	**1.375”**	**27**	**3 Nuts, 10mm x 1.5**

NOTES
Captive Clutch
Low Stall

APPLICATION | CODES
2003-08 Jaguar XK 4.2L
206-700, J65

TSB: **185, 186, 187, 188**

NOTES

TSB#	Symptom	Solution	Part #
1	Converter Drainback	Install Pressure Regulator Valve Kit (Oversized)	22741PAK
2	TCC Apply Problems	Replace Turbine Shaft O-Ring 5F9Z-7H497-EA	33002LA, 33004LA 33006LA
3	No Lock Up	Replace Front Stator Support Bushing	34036B 34036S
4	Converter Overheat, Delayed Reverse	Install New Wide Stator Bushing	44036B
5	Converter Overheat, No TCC When Hot	Replace TCC Solenoid	54425B
6	High Converter Apply Pressure, TCC Slip Code, Converter Hub & Stator Damage	Replace TCC Regulator Valve Spring	75741Q-3
7	Converter Apply & Release Problems, Converter Codes	Replace TC Lock Up Clutch Regulator Valve Assembly	78741HRK
8	Converter Overheat, Poor Cooler Flow	Install TransLab Valve Body Upgrade Kit	87165A
9	Lock Up Shudder, Soft TCC Apply	Replace Lock Up Valve Spring	A12741C-3
10	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Valve Body Kit	A36165E
11	Converter Clutch Failure	Install TransLab Valve Body Upgrade Kit	A38165A
12	TCC Slip/Cycling, Code 1870	Install Valve Body Kit To Convert From EC3 To On/Off TC Clutch Engagement	A74165EA
13	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve (PWM Only)	A74507CEK
14	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (245mm or 298mm Converter, Non-Reluctor Type, 93-04)	A74529B S74529B
15	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Non-Reluctor Type, 99-04)	A74529C S74529C
16	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (298mm Converter, Reluctor Type, 04-Up)	A74529D S74529H
17	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Reluctor Type, 04-Up)	A74529E S74529L
18	TCC Slip/Cycling, Code 1870	Install TCC Valve To Convert From EC3 To On/Off TC Clutch Engagement (00-03)	A74741QC
19	Delayed Engagement, Converter Overheat, Converter Slip Codes	Install Valve Body Kit	A86165E
20	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Valve Body Kit	A86165H
21	Lock Up Chatter, Lock Up Slippage, No Lock Up	Replace Lock Up Control Solenoid	A89428
22	Lock Up Shudder During Lock Up Apply	Use Medium Stall Converter Instead Of Low Stall Converter	CR2
23	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Valve	D92540
24	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Valve (Splice Into Cooler Line)	D92540A
25	Converter Slippage (Allison)	Replace "F" Trim Valve Sleeve (Pre-2004)	S121741C-2

TSB#	Symptom	Solution	Part #
26	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Sure Cure Kit	S12174
27	Incorrect TCC Apply & Release, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Control Valve (Single Valve Pumps)	S134741C
28	Incorrect TCC Apply & Release, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Control & Enable Valves (Dual Valve Pumps)	S134741CA
29	Converter Overheat, Delayed/No Reverse	Replace TCC Regulator & Valve Assembly	S134741QK
30	Converter Overheat, TCC Valve Apply & Release Problems	Replace TCC Control Sleeve (Pre 2003)	S14741C-2
31	No TCC Apply, Soft/Slipping Apply	Replace TCC Regulated Apply Sleeve	S14741Q-2
32	Lock Up Shudder, Converter Overheat	Install Shift Correction Package	S22165
33	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Package	S22167
34	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Package	S22167A
35	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Kit (48RE Only)	S22167C
36	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Sure Cure Kit	S22174
37	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply	Replace 4 Spool Switch Valve	S22741A-1
38	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply	Replace 4 Spool Switch Valve (Oversized)	S22741AA-1
39	Converter Overheat, TCC Apply & Release Problems, Converter Codes	Install Zip Kit	S27741BZK
40	Lock Up Chatter	Install Shift Correction Package	S24165E
41	TCC Slip Related Problems	Replace TCC Regulator Valve Sleeve (00-Up PWM Only)	S24741C-2
42	Converter Overheat, TCC Apply & Release Problems, Converter Codes	Replace Lock Up Control Plunger Valve & Sleeve Assembly	S27741C
43	Converter Overheat, TCC Apply & Release Problems, Harsh Lock Up	Replace Secondary Pressure Regulator Valve Assembly (Oversized)	S27741PAK
44	Converter Overheat, TCC Apply & Release Problems, Harsh Lock Up	Install Zip Kit	S27741ZK
45	High Engine RPM Due To No Lock Up	Replace Lock Up Control Sleeve & Plunger Assembly	S33741GCK
46	Engine Stall On Engagement, Loss Of Lock Up, Increased RPM On Acceleration	Replace TCC Limit & Lube Valve Assembly	S33741GQK
47	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Sure Cure Kit	S34174
48	Lock Up Shudder, Converter Overheat, Converter Apply & Release Problems	Replace TCC Regulator Valve & Sleeve Assembly	S34741C-2K

TSB#	Symptom	Solution	Part #
49	Lock Up Shudder, Converter Overheat, Converter Apply & Release Problems	Replace TCC Regulator Valve	S34741CK
50	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Correction Package	S36165E
51	Soft Shifts, Poor Line Rise, Delayed Reverse	Install Sure Cure Kit (E40D)	S36174
52	Lock Up Shudder, Converter Overheat, Engine Stumble/ Stall On Reverse Engagement, TCC Cycling	Install Sure Cure Kit	S36174A
53	Lock Up Shudder, TCC Cycling	Replace TCC Control Valve Assembly (PWM 4R100 Apps Only)	S36507CK
54	Converter Overheat, Engine Stumble/Stall On Reverse Engagement	Replace Line To Lube Pressure Regulator Valve	S36507P-1
55	Converter Overheat, TCC Slippage, Soft Apply	Replace Cooler Bypass Valve	S36996A-5K
56	Converter Remains Applied Causing Harsh Downshifts, TCC Apply & Release Problems	Replace Lock Up Clutch Control Valve Assembly	S39741C-1K
57	Excess TCC Slip, Harsh TCC Apply, Converter Overheat	Install Shift Correction Package	S46165
58	TCC Cycling, Burned Converter, Engine Stall, No TCC Release	Replace TCC Control Spring	S46741-3B
59	Harsh TCC Apply, TCC Slip On Apply	Replace TCC Modulator Spring	S46741-3C
60	Harsh TCC Apply, Low Line Pressure, Excess TCC Slip, Converter Lining Overheat	Replace TCC Back Pressure Spring	S46741-3D
61	High TCC Slip RPM At Increasing Load	Replace TCC Modulator Sleeve / Plunger (OEM Ratio)	S46741C
62	High TCC Slip RPM At Increasing Load	Replace TCC Modulator Sleeve / Plunger (Increased Ratio)	S46741CA
63	Excess TCC Slip	Replace TCC Modulator Valve / Sleeve	S46741CB
64	Excess TCC Slip, TCC Lining Comes Off, Converter Overheat	Replace TCC Control Valve (Oversized)	S46741CCK
65	Lock Up Shudder On Coast Down, Engine Chug, Lock Up Problems	Install Valve Body Kit	S56165E
66	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Shift Correction Package	S56165H
67	No TCC Apply, Poor Converter Fill, Delayed Engagements	Replace TCC Modulator/Sleeve	S56741C-2K
68	Lock Up Shudder On Coast Down, Engine Chug	Replace Anti-Shudder Spring	S56741C-3
69	Low TCC Apply Pressure	Replace TCC Regulator Valve Spring	S56741CA-3K
70	Converter Apply Problems	Replace TCC Regulator Valve	S56741Q-1
71	Converter Apply Problems, High TCC Slip	Replace TCC Regulator/Sleeve	S56741Q-2K
72	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Zip Kit	S56741ZK
73	Converter Remains Applied Causing Harsh Downshifts, TCC Apply & Release Problems	Replace Lock Up Clutch Control Valve Assembly	S59741C-1

TSB#	Symptom	Solution	Part #
74	Converter Overheat, Delayed Engagement, Higher Stall Speed, Poor Performance	Replace Regulator Assembly	S63741C-2K
75	Lock Up Shudder, Converter Overheat, TCC Cycling	Replace TCC Control Sleeve	S63741H-2K
76	Harsh Lock Up	Replace TCC Damper Valve & Sleeve Assembly	S68942-23K
77	Harsh TCC Engagement	Replace TCC Accumulator Valve Spring	S72741E-3
78	Converter Overheat, Low TCC Release Pressure	Replace TCC Limit Valve & Sleeve	S72741L-1
79	OEM Spring Breaks, Delayed Engagement, Engine Stall On Engagement	Replace TCC Limit Spring	S72741L-3
80	Converter Overheat, Code 1870	Install Shift Correction Package (1993-97)	S74165E
81	TCC Slip/Cycling, 3-4 Clutch Failure, Falls Out Of Lock Up When Hot, No Lock Up, Converter Overheat	Install Shift Correction Package (1998-Up)	S74165EA
82	TCC Slip/Cycling, 3-4 Clutch Failure, Falls Out Of Lock Up When Hot, No Lock Up, Converter Overheat	Install Sure Cure Kit	S74174A
83	Converter Overheat, No TCC When Hot	Replace TCC Solenoid Snout (Up To 1996)	S74425N-2
84	Converter Overheat, No TCC When Hot	Replace TCC Solenoid Snout (1997-Up W/ Anti-Drainback Valve)	S74425S-2
85	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly (Non-PWM Only)	S74507C-1
86	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly (PWM Only)	S74507CE-1
87	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Reluctor Type, 04-Up)	S74529L
88	TCC Slip/Cycling, 3-4 Clutch Failure	Replace Isolator Valve Sleeve	S74741Q-2
89	Converter Overheat, TCC Slip	Replace Regulator Valve Assembly (All Years & EC3 Units)	S74741QAK
90	Converter Overheat, TCC Slip	Replace Regulator Valve Assembly (Up To 1997 Non-EC3 Units)	S74741QK
91	Delayed Engagements, Erratic Pressure	Install Sure Cure Kit (096, 097, 098)	S75174
92	No Lock Up, Falls Out Of Lock Up When Hot, Engine Stalls/Shudders On Engagement	Install Sure Cure Kit (01M, 01N, 01P)	S75174A
93	No Lock Up, Falls Out Of Lock Up When Hot, Engine Stalls/Shudders On Engagement	Replace TCC Regulator Valve Assembly (Oversized)	S75741CAK
94	Converter Overheat, Engine Stalls During Stop/Neutral Drive Engagement	Replace TCC Boost Valve Assembly	S75741CK
95	Lock Up Shudder	Install Shift Correction Package	S76165E
96	Delayed/No Lock Up, Uncontrollable TCC, Shudder, TCC Apply & Release Problems, Cross Leak Of Converter Release Oil, Loss Of Lock Up	Install Valve Body Kit	S76169E
97	Lock Up Shudder, Uncontrollable TCC, Delayed/No Lock Up, Codes 628, 741, 1741	Install Sure Cure Kit (Up To 1995)	S76174
98	Lock Up Shudder, Uncontrollable TCC, Delayed/No Lock Up, Codes 628, 741, 1741	Install Sure Cure Kit (1996-Up)	S76174A
99	TCC Apply & Release Problems, Cross Leak Of Converter Release Oil	Replace Stator Support Sleeve	S76507S
100	Delayed/No Lock Up, Lock Up Shudder, Uncontrollable TCC	Replace Bypass Control Sleeve/Plunger	S76741AK

TSB#	Symptom	Solution	Part #
101	TCC Slip, Loss Of Lock Up	Replace Bypass Clutch Control Valve (Oversized)	S76741H-1K
102	Converter Overheating	Replace Lubricating Pressure Control Valve Assembly	S78741P-1K
103	Converter Apply & Release Problems, Converter Codes	Replace TC Lock Up Clutch Regulator Valve Assembly	S78741QK
104	Converter Apply & Release Problems, Excess Slip RPM, TCC Cycling, High TCC Release Pressure	Replace TCC Control Valve & Sleeve Assembly	S82741C-1K
105	Lock Up Shudder	Install Shift Correction Package	S84165
106	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Shift Correction Package	S84165G
107	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870, Reduced Cooler Flow	Install Sure Cure Kit	S84174
108	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870, Reduced Cooler Flow	Install Sure Cure Kit	S84174A
109	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Sure Cure Kit	S84174G
110	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace TCC Regulator & Isolator Valve Assembly (1991-92)	S84741CAK
111	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve (Oversized)	S84741CC-1
112	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve	S84741CD-1
113	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly	S84741CE-1
114	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace TCC Regulator & Isolator Valve Assembly (1993-99)	S84741CK
115	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace Isolator Valve Sleeve (1993-99)	S84741Q-1
116	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace Isolator Valve Sleeve (1993-99)	S84741QK
117	Repeat Converter Failure, TCC Slippage	Replace TCC Relief Valve	S84755A-1
118	Delayed Engagement, Converter Slip Codes, Converter Overheat	Install Shift Correction Kit	S86165E
119	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Sure Cure Kit	S86174
120	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Sure Cure Kit	S86174H
121	No/Soft TCC Apply, TCC Slip	Replace TCC Control Valve & Sleeve	S86741B-2
122	TCC Apply & Release Problems, Hydraulic Related Converter Codes	Replace Bypass Clutch Control Valve (Oversized)	S86741BK
123	TCC Apply & Release Control Problems	Replace Bypass Clutch Control Valve (Oversized)	S86741HBBK
124	No TCC Apply, TCC Cycle/Surge	Replace Bypass Control Sleeve/Plunger (0.486" Dia Spool)	S86741HBK
125	No TCC Apply, TCC Cycle/Surge	Replace Bypass Control Sleeve/Plunger (0.496" Dia Spool)	S86741HCK

TSB#	Symptom	Solution	Part #
126	No TCC Apply	Replace Solenoid Regulator Valve (Oversized)	S86741LK
127	Delayed Engagement, Converter Slip Codes, Converter Overheat	Replace Converter Regulator Valve (Oversized)	S86741QK
128	TCC Apply & Release Problems, Converter Codes	Replace Lock Up Relay Control Valve & Sleeve Assembly	S89741C
129	Converter Overheat, TCC Apply & Release Problems, Converter Codes	Replace Lock Up Control Valve & Sleeve Assembly	S89741CA
130	No TCC Apply, Shift Problems, Harsh Shifts In All Ranges, Engine Stalls On Engagement	Replace Solenoid Relay Valve & Sleeve Assembly	S89741Q
131	Lock Up Shudder & Failure, TCC Deflection & Lining Failure, Cooler Restriction Caused By Lining Material, Transmission or Converter Overheat	Install Sure Cure Kit	S92174
132	Erratic/No TCC, 2nd Gear Starts, Low/Reverse Switch Code, Worn Switch Valve Bore	Replace Solenoid Switch Valve Plug (Oversized)	S92741-2AK
133	Erratic/No TCC, 2nd Gear Starts, Low/Reverse Switch Code	Replace Solenoid Switch Valve Plug	S92741-2K
134	No TCC Apply, Wrong Gear Starts	Replace Solenoid Switch Valve Plug (Oversized)	S92741H-1
135	Lock Up Shudder & Failure, TCC Deflection & Lining Failure, Cooler Restriction Caused By Lining Material, Transmission/Converter Overheating	Replace Converter Regulator Valve Assembly	S92741PK
136	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Plug (1994-97 w/ Internal Bypass Valve)	S92761B-6
137	Converter Apply & Release Problems	Replace TCC Regulator Valve Assembly	S94741QK
138	TCC Slippage, No Lock Up, Low Converter Charge	Install Shift Correction Package	S96167
139	TCC Slippage, No Lock Up, Low Converter Charge	Replace Bypass Clutch Control Assembly	S96741BK
140	TCC Slippage, No Lock Up, Low Converter Charge	Replace Master Clutch Control & Pressure Regulator Valve Assemblies	S96741K
141	Converter Slippage, Weak Lock Up Apply (Allison)	Install Shift Kit® (5 Speed, 2001-05)	T121165
142	Converter Slippage, Weak Lock Up Apply (Allison)	Install Shift Kit® (6 Speed, 2006-Up)	T121167
143	Converter Slippage, Lock Up Shudder	Install Shift Kit®	T15165
144	Lock Up Shudder, Converter Overheat, Converter Drainback, Engine Stall In Reverse	Install Shift Kit®	T22165
145	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Kit® (Gas & Diesel)	T22165B
146	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Kit®	T22167
147	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Reprogramming Kit™	T22169B

TSB#	Symptom	Solution	Part #
148	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Kit®	T34165E
149	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Reprogramming Kit™ (HD Applications)	T34169E
150	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Kit®	T36165E
151	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Reprogramming Kit™ (HD Applications)	T36169EA
152	Converter Clutch Failure	Install Shift Kit®	T38165A
153	TCC Slippage, Lock Up Shudder	Install Shift Kit®	T39165
154	Excess TCC Slip, Harsh TCC Apply, Converter Overheat	Install Shift Kit®	T46165
155	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Shift Kit®	T56165H
156	Lock Up Shudder On Coast Down, Engine Chug, Lock Up Problems	Install Shift Kit®	T56167E
157	TCC Slippage, Lock Up Shudder	Install Shift Kit®	T59165
158	Lock Up Shudder, Converter Overheat	Install Reprogramming Kit™	T63169
159	Harsh TCC Engagement, 2-3 Neutral, Drainback	Install Shift Kit®	T72165
160	Harsh TCC Engagement, 2-3 Neutral, Drainback	Install Reprogramming Kit™	T72169
161	TCC Slip/Cycling, 3-4 Clutch Failure, No Lock Up, Falls Out Of Lock Up When Hot, Converter Overheat	Install Shift Kit® (1993-08)	T74165E
162	Hard Lock Up, Engine Stall, Lock Up Slip or Shudder	Install Shift Kit® (01M 1995-04)	T75165
163	Delayed/No Lock Up, Uncontrollable TCC, Shudder, TCC Apply & Release Problems, Cross Leak Of Converter Release Oil, Loss Of Lock Up	Install Shift Kit®	T76165E
164	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, No Lock Up, Converter Codes	Install Shift Kit®	T84167E
165	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Shift Kit®	T84167G
166	Delayed Engagement, Converter Slip Codes, Converter Overheat	Install Shift Kit®	T86165E
167	Hard Shift, Neutral At Stop	Install Shift Kit®	T86165H
168	Converter Slippage, Delayed Engagement, Hard Engagement	Install Shift Kit®	T89165C
169	Lock Up Shudder	Use Alignment Tool To Properly Align Converter To Adapter Plate	T-0519A T-0519AAC
170	Converter Overheat, Code P0740	Install Pressure Regulator Valve	S80741P-1

TSB#	Symptom	Solution	Part #
171	TCC Codes, Poor Cooler Flow	Install TCC Check Valve Kit	S80741C-1
172	Converter Drainback	Install Pressure Regulator Valve Kit	S22741P
173	TCC Apply & Release Control Problems, Code 628	Install Bypass Clutch Control Sleeve & Plunger	S86741A-2
174	Converter Overheat	Install End Plug Kit	S56741-6K
175	High TCC Slip RPM At Increasing Load, Slip Codes	Install TCC Modulator Sleeve & Plunger Valve Kit	S46741-3DA
176	Excess TCC Slip RPM, Code 741, TCC Cycling, TCC Slippage, Code 1783	Install TCC Control Sleeve Assembly	S16507C
177	Erratic TCC, No TCC, Low/Reverse Switch Code	Install Solenoid Switch Valve Plug Kit (Oversized)	S92741H
178	RPM Surging On Coast/Light Acceleration, Converter Apply & Release Problems, Harsh Downshifts, Slip Codes, Overheated Fluid	Install Lock Up Control Valve & Boost Kit (Oversized)	S89741C-1K
179	Converter Codes, Damaged TCC Lining, Loss Of Power	Install Pressure Regulator Valve Kit	S98741QCK
180	Excess TCC Slip, Converter Overheat, Converter Codes	Install TCC Control Plunger Valve Assembly	S98741Q
181	Engine Stall On Engagement, Loss Of Lock Up, Lock Up Shuttling, Premature Lock Up, TCC Problems, Converter Overheat	Install TCC Control Valve & Plunger Assembly	S98741QK
182	Converter Apply & Release Problems, Converter Slip Codes, RPM Surge On Coast, Overheated Fluid	Install Lock Up Control Plunger Valve & Sleeve Kit (Oversized)	S147741C-2A
183	Converter Apply & Release Problems, Converter Slip Codes, RPM Surge On Coast, Overheated Fluid	Install Lock Up Control Plunger Valve & Sleeve Kit	S147741C-2
184	Converter Overheat, Converter Apply & Release Problems, Converter Codes	Install Lock Up Relay Valve Kit (Oversized)	S147741C-1
185	Excessive TCC Slip RPM, TCC Codes, Converter Apply & Release Problems, Converter Overheat	Install Converter Release Regulator Valve Kit	S95741C-1K
186	Converter Overheat, Low Converter Pressure, Lube Failure	Install Lubrication Control Valve Kit (Oversized)	S95741H-1
187	Converter Overheat, Low TCC Release Pressure, Excessive TCC Slip RPM, Excessive TCC Cycling RPM, TCC Related Codes	Install Bypass Clutch Control Valve Kit (Oversized)	S95741D-1K
188	Shift Flares, Delayed/Harsh Engagements, Excessive Heat	Install Zip Kit	S95741ZK
189	Converter Overheat, TCC Codes, Poor Cooler Flow	Install TC Check Valve Kit	S80741C-1A

DNA GLOSSARY OF TERMS

Term	Definition
2-3 Neutral	Unit engages first and second gear, but loses apply in third gear
Burnt Converter	Converter overheats due to lack of oil flow or TCC slippage
Converter Clutch Failure	TCC lining erodes or burns away
Converter Drainback	Converter loses its charge oil when engine is off resulting in no initial movement
Converter Lining Overheat	Burnt converter lining due to excessive slippage
Converter Overheat	See Burnt Converter
Converter Shudder	Rapid vibration or shaking during TCC apply
Converter Slippage	TCC does not lock up as needed, but no shudder is present
Cross leak of converter release oil	Various symptoms
Delayed Engagement	"Morning Sickness" (delayed neutral / drive - reverse)
Delayed Reverse	See Delayed Engagement
Engine Chug	Engine bucks / jerks in lockup due to low lockup speed or poor engine performance
Engine Stall	Engine stops in gear due to TCC apply at standstill
Engine Stumble	See Engine Chug
Engine Stumble	See Engine Chug
Excess TCC Slip	See Converter Slippage
Hard Shift	Overly aggressive test driving or upshifts
Harsh Lockup	Aggressive TCC Apply
Harsh TCC Apply	See Harsh Lockup
High Apply Pressure	See Harsh Lockup
Incorrect TCC Apply & Release	Problems with lockup timing (low or high) or quality (hard or soft)
Lockup Chatter	See Converter Shudder
Lockup Shudder	See Converter Shudder
Lockup Shuttling	TCC hunting condition (on-off-on-off)
Low Converter Charge	Converter does not fill correctly
Low Line Pressure	Insufficient pump pressure
Neutral at stop	Converter loses engagement
No Reverse	See Delayed Engagement
Poor Converter Fill	See Low Converter Charge
Poor Line Rise	See Low Line Pressure
Shift Flares	Poor quality upshifts
Soft Shift	See Shift Flares
Soft TCC Apply	See Converter Slippage
TCC Apply/Release Problems	See Incorrect TCC Apply and Release
TCC Deflection	See Converter Slippage
TCC Slip/Cycling	Soft or slipping apply, or hunting
TCC Surge	See Harsh Lockup
TCC Valve Apply & Release	Sticking valve or improper calibration
Uncontrollable TCC	Lacks ECM control or pedal control
Weak Lockup Apply	See Converter Slippage
Wrong Gear Start	Fails to start off in first gear

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ACURA					
2.2 CL	2.2L	1997	A6VA	HO72	142
2.3 CL	2.3L	1998-99	B6VA	HO66	142
2.3 CL	2.3L	1998-99	B6VA	HO78	142
2.5 TL	2.5L	1995-98	M1WA	HO71	140
3.0 CL	3.0L	1997-99	M7ZA	HO79	144
3.0 CL	3.2L	2001-03	MGFA	HO80	144
3.2 CL	3.2L	2001-03	BGFA	HO80	144
3.2 TL	3.2L	1999	B7VA	HO80	144
3.2 TL	3.2L	1995-98	M5HA, MPYA	HO68	140
3.2 TL	3.2L	1995-98	M5HA, MPYA	HO69	142
3.2 TL	3.2L	2000-06	B7WA	HO80	144
3.2 TL	3.2L	2000-06	M7WA	HO80	144
3.2 TL	3.2L	2004-06	BDGA	HO80	144
3.5 RL	3.5L	1996-04	M5DA	HO68	140
3.5 RL	3.5L	2005-11	MJBA	HO82	145
Integra	1.6L	1986-87	CA	HO56	140
Integra	1.6L	1988-89	PL, P1	HO64	141
Integra	1.7L	1992	ALL	HO66	142
Integra	1.8L	1994-95	MP7A, SP7A	HO69	142
Integra	1.8L	1996-99	S4XA, SKWA	HO66	142
Integra	1.8L	1990-93	MPRA, RO	HO67	143
Legend	2.5L	1987	L5, PL5X	HO62	143
Legend	2.5L	1986-87	G4	HO63	143
Legend	2.7L	1987-90	G4	HO63	143
Legend	2.7L	1987-90	L5, PL5X	HO62	143
Legend	3.2L	1991-95	M5DA, MPYA	HO68	140
MDX	3.5L	2001-02	BGHA, MGHA	HO80	144
MDX	3.5L	2003-06	MDKA, BDKA	HO82	47
NSX	3.0L	1991-02	MR9A, NPR9	HO74	144
RDX	2.3L	2007-11	BWEA	HO3001	145
RSX	2.0L	2002-06	MRMA	HO81	144
SLX	3.2L	1996	4L30E	GM24	20
SLX	3.2L	1996-97	180C, 4L30E	GM85	10, 20
SLX	3.5L	1998-99	4L30E	GM24	20
SLX	3.5L	1998-99	180C, 4L30E	GM85	10, 20
TSX	2.4L	2004-08	MCTA	HO81	144
Vigor	2.5L	1992-94	MPWA	HO71	140
AUDI					
100, 200	2.2L	1989-90	010, 087, 089, 090	AU2	239
100, 200	2.2L	1991	010, 087, 089, 090	VW14	239
100, 200	2.2L	1991	010, 087, 089, 090	VW13	239
100, 200	2.2L	1991	010, 087, 089, 090	VW15	239
100, 100 Quattro	2.3L	1989-91	010, 087, 089, 090	AU2	239
100, 100 Quattro	2.3L	1989-91	010, 087, 089, 090	VW14	239
100, 100 Quattro	2.3L	1989-91	010, 087, 089, 090	VW13	239
100, 100 Quattro	2.8L	1992-94	ZF4HP18	AU3	241
4000	1.8L	1984-87	010, 087, 089, 090	VW14	239
4000	1.8L	1984-87	010, 087, 089, 090	VW13	239
5000	2.2L	1978-88	VW 010	VW13	239
5000	2.3L	1968-88	010, 087, 089, 090	VW13	239
5000S	2.1L	1985-90	010, 087, 089, 090	VW15	239
5000S	2.2L	1985-90	010, 087, 089, 090	VW15	239
5000S	2.3L	1985-90	010, 087, 089, 090	VW15	239
80	2.0L	1988-90	010, 087, 089, 090	AU2	239
80	2.3L	1991-92	010, 087, 089, 090	AU2	239
80	2.3L	1991-92	097	VW17	238
90	2.0L	1988-90	010, 087, 089, 090	AU2	239
90	2.3L	1991	010, 087, 089, 090	AU2	239
90	2.3L	1991	097	VW17	238
90	2.8L	1993	097	VW17	238
90	2.3L	1988-90	010, 087, 089, 090	AU2	239
90	2.3L	1988-90	010, 087, 089, 090	VW14	239
90	2.3L	1988-90	010, 087, 089, 090	VW13	239

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AUDI (Cont.)					
A4, A4 Quattro	1.8L	1996	ZF5HP19FL	AU20	249
A4, A4 Quattro	1.8L	2000-02	ZF5HP19FL	AU13	250
A4, A4 Quattro	2.8L	1996-02	ZF5HP19FL	AU23	249
A4, A4 Quattro	2.8L	1996-98	ZF5HP19FLA	AU20	249
A4, A4 Quattro	2.8L	1996-02	ZF5HP19FL	AU22	249
A4, A4 Quattro	2.8L	1996-05	ZF5HP19	AU11	250
A4, A4 Quattro	2.8L	1996-98	ZF5HP19FL	BMW62	251
A4, A4 Quattro	3.0L	2002-Up	ZF5HP19FL	AU13	250
A4, A4 Quattro	3.0L	2002-Up	ZF5HP19FL	AU11	250
A6, A6 Quattro	2.7L	1998-Up	ZF5HP19FLA	AU11, AU13	250
A6, A6 Quattro	2.8L	1996-02	ZF5HP19FLA	AU23	249
A6, A6 Quattro	2.8L	1998-01	ZF5HP19FL	AU22	249
A6, A6 Quattro	2.8L	1995-97	ZF4HP18	AU3	241
A6, A6 Quattro	2.8L	2000-01	ZF5HP19FL	AU11	250
A6, A6 Quattro	3.0L	2001-03	ZF5HP19FL	AU13	250
A6, A6 Quattro	3.0L	2004-12	ZF6HP19A	AU14	255
A6, A6 Quattro	4.2L	1997-99	ZF5HP24	AU13908	252
A6, A6 Quattro	4.2L	2004-12	ZF6HP26	AU14	256
A6, A6 Quattro	2.7L	2000-05	ZF5HP19FLA	AU13	250
A6, A6 Quattro	2.7L	2000-05	ZF5HP19FLA	AU11	250
A8 Sedan	3.7L	1997	ZF5HP19	AU21	249
A8, A8 Quattro	4.2L	1997-99	ZF5HP24	AU13908	252
A8, A8 Quattro	4.2L	2000-02	ZF5HP24	AU13909	252
All Road	4.2L	2001-04	ZF5HP19	AU25	249
All Road Quattro	2.7L	2001-04	ZF5HP19	AU13	250
All Road Wagon	2.7L	2001-04	ZF5HP19	AU13	250
Cabriolet	2.8L	1996-98	097	VW17	238
Coupe	2.2L	1981-87	010, 087, 089, 090	VW14	239
Coupe	2.3L	1987	010, 087, 089, 090	VW14	239
Coupe	2.2L	1981-87	010, 087, 089, 090	VW13	239
Coupe	2.3L	1987	010, 087, 089, 090	VW13	239
Quattro	2.2L	1990	ZF4HP22	VO26	234
Quattro	2.2L	1989-92	ZF4HP22	VO26	234
S4	2.7L	2001	ZF5HP19FLA	AU11	250
S8	4.2L	2001	ZF5HP19FLA	AU13909	250
TT	1.8L	2003-06	09G, TF60SN	VW1502	237
V8 Quattro	3.6L	1990-91	ZF4HP22	VO26	234
V8 Quattro	4.2L	1992-94	ZF4HP22	VO26	234
BMW					
318i	1.8L	1984-87	ZF4HP22/24	BMW12	244
318i	1.8L	1991-99	4L30E	BMW29	20
318i	1.9L	1996-99	4L30E	BMW29	20
318i	4 Spd	1984-87	ZF4HP22/24	BMW12	244
320i (incl. E46)	2.2L	2001-05	ZF5HP19	BMW61	251
323Ci	2.5L	2000	5L40E	BMW41	39
323i	1.8L	2005	5L40E	BMW38	39
323i	2.5L	1998-99	4L30E	BMW29	20
323i	2.5L	1999-00	5L40E	BMW41	39
323i	2.5L	2000-05	ZF5HP18	BMW43	251
323i	2.5L	2000-05	ZF5HP19	BMW62	251
323i	2.5L	1999-01	5L40E	BMW38	39
323i	2.5L	1999-01	5L40E	BMW41	39
325	2.7L	1987-88	ZF4HP22	BMW11	245
325Ci	2.5L	2003	5L40E	BMW29	20
325Ci	2.5L	2000-03	ZF5HP19	BMW63	251
325E	4 Spd	1984-91	ZF4HP22	BMW11	245
325E	4 Spd	1984-91	ZF4HP22	BMW34	244
325i	2.5L	2001	5L40E	BMW41	39
325i	2.5L	1984-87	ZF4HP22/24	BMW12	244
325i	2.5L	1987-99	ZF4HP22	BMW17	245
325i	2.5L	1988-91	ZF4HP22	BMW11	245
325i	2.5L	1992-95	4L30E	BMW29	20
325i	2.5L	2000-03	ZF5HP19	BMW63	251

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BMW (Cont.)					
325i	2.5L	2001-04	4L30E	BMW29	20
325i	2.8L	2000-05	5L40E	BMW38LS	39
325i	3.0L	2000-05	5L40E	BMW38	39
325iC	2.5L	1987	ZF4HP22	BMW12	244
325iC	2.5L	1988-91	ZF3HP22	BMW17	245
325iC	2.5L	1992-95	4L30E	BMW29	20
325iS	2.5L	1988-91	ZF4HP22	BMW11	245
325iS	2.5L	1992-95	4L30E	BMW29	20
328Ci	2.8L	2000	5L40E	BMW38LS	39
328i	2.8L	1997	4L30E	BMW29	20
328i	2.8L	1996-99	4L30E	BMW29	20
328i	2.8L	1999-00	5L40E	BMW38	39
328i	2.8L	1999-00	5L40E	BMW38LS	39
328iC	2.8L	1996	4L30E	BMW29	20
328iC	2.8L	1997	4L30E	BMW29	20
328iS	2.8L	1996	4L30E	BMW29	20
328iS	2.8L	1997	4L30E	BMW29	20
330Ci	3.0L	1999-03	ZF5HP19	BMW12901	251
330i	3.0L	2002	ZF5HP19	BMW12901	251
330i	3.0L	1999-03	ZF5HP19	BMW12901	251
330i	3.0L	2001-02	ZF5HP19	BMW12901	251
505	2.2L	1989	ZF4HP22	BMW19	244
525	2.5L	2001	ZF5HP19	BMW63	251
525i	2.5L	1989-90	ZF4HP22	BMW11	245
525i	2.5L	1991-93	4L30E	BMW29	20
525i	2.5L	1994-95	4L30E	BMW29	20
528E	2.7L	1984-88	ZF4HP22	BMW11	245
528i	2.8L	1997	4L30E	BMW29LS	20
528i	2.8L	1997-99	4L30E	BMW29	20
528i	2.8L	1999-00	5L40E	BMW38	39
528iT	2.8L	1999	4L30E	BMW29	20
528iT	2.8L	1999	5L40E	BMW38	39
530i	3.0L	1992-93	ZF5HP18	BMW36	248
530i	3.0L	1993-95	ZF4HP22	BMW36	248
530i	3.0L	1993-95	ZF5HP18	BMW35	248
530i	3.0L	2001-03	ZF5HP19	BMW12901	251
530i	3.0L	2000-11	ZF6HP19	BMW55	255
533	3.2L	1984-94	ZF4HP22	BMW34	244
535i	3.5L	1993	ZF4HP24	BMW25	247
535i	3.5L	1985-92	ZF4HP22	BMW11	245
535i	3.5L	1987-Up	ZF3HP22	JA3	246
535i	3.5L	1989-91	ZF4HP22	BMW17	245
535iS	3.5L	1988	ZF4HP22	BMW11	245
535iS	3.5L	1987-99	ZF3HP22	BMW17	245
540i	4.0L	1992-97	ZF5HP30	BMW32	254
540i	4.4L	1977-03	ZF5HP24	BMW13900	252
635CSi	3.5L	1985-89	ZF4HP22	BMW11	245
735i	3.5L	1985-92	ZF4HP22	BMW11	245
740i	4.0L	1992-95	ZF5HP30	BMW32	254
740i	4.4L	1992-95	ZF5HP30	BMW32	254
740i	4.4L	1997-98	ZF5HP24	BMW13900	252
740iL	4.0L	1993-95	ZF5HP30	BMW32	254
740iL	4.4L	1997-01	ZF5HP24	BMW13900	252
745i	4.4L	2002-09	ZF6HP26	BMW95	256
745iL	4.4L	1984-86	ZF3HP22	BMW21	246
750Li	4.8L	2002-09	ZF6HP26	BMW95A	256
750iL	5.0L	1988-94	ZF4HP24	BMW25	247
750iL	5.4L	1995-99	ZF5HP30	BMW32	254
750iL	5.4L	2000	ZF5HP30	BMW80	254
840Ci	4.0L	1994-95	ZF5HP30	BMW32	254
850	5.0L	1994	ZF5HP30	BMW32	254
850	5.0L	1987-99	ZF3HP22	BMW17	245
850	5.4L	1995	ZF5HP30	BMW32	254

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BMW (Cont.)					
850	5.6L	1994-95	ZF5HP30	BMW32	254
850i	5.0L	1991-93	ZF4HP24	BMW25	247
L7	3.5L	1986-87	ZF4HP22	BMW11	245
M3	3.0L	1995	ZF5HP18	BMW35	248
M3	3.2L	1996-99	ZF5HP18	BMW35	248
X5	3.0L	2000-06	5L40E	BMW40L	39
X5	3.0L	2000-06	5L40E	BMW41	39
X5	3.0L	2000-06	ZF5HP24	BMW13904	253
X5	4.4L	1998-01	ZF5HP24	BMW13903	252
X5	4.4L	2001-02	ZF5HP24	BMW13900	252
X5	4.4L	2003-07	ZF6HP26	BMW13904	253
Z3	1.9L	1996-98	4L30E	BMW29	20
Z3	2.5L	1999-00	4L30E	BMW29	20
Z3	2.8L	1997-99	4L30E	BMW29	20
Z4	2.5L	2002-Up	ZF5HP19	BMW63	251
BUICK					
Allure	3.8L	2005-07	4T60E, 4T65E	GM71CW	35
Century	2.2L	1993-96	125C, 440-T4	GM73	9, 34
Century	2.5L	1984-96	125C, 440-T4	GM73	9, 34
Century	2.5L	2002	4T65E	GM71C	34
Century	2.5L	2002	4T65E	GM71CW	35
Century	2.8L	1986-89	125C, 440-T4	GM42	9, 34
Century	2.8L	1986-89	125C, 440-T4	GM71	9, 34
Century	2.8L	1995-96	125C, 440-T4	GM73	9, 34
Century	3.0L	1982-85	125C, 440-T4	GM42	9, 34
Century	3.0L	2002	4T65E	GM71C	34
Century	3.0L	2002	4T65E	GM71CW	35
Century	3.1L	1994-95	4T60E	GM42	34
Century	3.1L	1994-96	4T60E	GM71	34
Century	3.1L	1996	4T60E	GM42	34
Century	3.1L	1997	4T60E	GM42	34
Century	3.1L	1997-08	4T65E	GM42CW	35
Century	3.1L	1998	4T65E	GM71C	34
Century	3.1L	1998-99	4T60E	GM42C	35
Century	3.1L	1998-99	4T60E	GM42CW	35
Century	3.1L	1999	4T65E	GM51	36
Century	3.1L	2000-02	4T65E	GM51	36
Century	3.1L	2000-05	4T65E	GM42C	35
Century	3.1L	2002	4T65E	GM71C	34
Century	3.1L	2002	4T65E	GM71CW	35
Century	3.3L	1989-93	125C, 440-T4	GM63	9, 34
Century	3.3L	1989-93	125C, 440-T4	GM71	9, 34
Century	3.8L	1984-88	125C, 440-T4	GM71	9, 34
Century	3.8L	1997	4T60E	GM71C	34
Century	3.8L	1997-05	4T65E	GM51	36
Century	3.8L	1999-02	4T65E	GM53	36
Electra	3.0L	1985	440-T4	GM42	34
Electra	3.8L	1985-95	440-T4, 4T60E	GM71	34
Electra	3.8L	1989-95	440-T4, 4T60E	GM63	34
Electra	4.3L	1985	440-T4	GM63	34
Electra	5.0L	1981-89	200-4R	GM15AL	12
Electra	5.7L	1981-85	200-4R	GM19	13
Enclave	3.6L	2007-12	6T70, 6T75	GM1241	42
Estate Wagon	5.7L	1993	4L60E	GM18AL	27
Estate Wagon	5.7L	1996	4L60E	GM33	28
Lacrosse	3.8L	2005-07	4T65E	GM71C	34
Lacrosse	3.8L	2005-07	4T65E	GM71CW	35
LeSabre	3.0L	1986	440-T4	GM42	34
LeSabre	3.8L	1980-86	200C	GM15	12
LeSabre	3.8L	1985-91	125C, 440-T4	GM71	9, 34
LeSabre	3.8L	1985-91	125C, 440-T4	GM63	9, 34
LeSabre	3.8L	1992-95	4T60E	GM63	34
LeSabre	3.8L	1992-95	4T60E	GM71	34

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BUICK (Cont.)					
LeSabre	3.8L	1996-97	4T60E	GM63C	34
LeSabre	3.8L	1996-97	4T60E	GM71C	34
LeSabre	3.8L	1998-02	4T65E	GM50	36
LeSabre	3.8L	1998-99	4T65E	GM63CW	35
LeSabre	3.8L	1998-99	4T65E	GM71C	34
LeSabre	3.8L	1998-99	4T65E	GM71CW	35
LeSabre	3.8L	2000-05	4T65E	GM51	36
LeSabre	3.8L	2000-05	4T65E	GM53	36
LeSabre	3.8L	2003-05	4T65E	GM50	36
LeSabre	3.8L	2005	4T65E	GM53	36
LeSabre	5.0L	1981-89	200-4R	GM15AL	12
LeSabre	5.0L	1991-92	700-R4	GM18AL	27
LeSabre	5.7L	1980-85	350C	GM16AL	16
LeSabre	5.7L	1982-85	200-4R	GM19	13
LeSabre	5.7L	1991-93	700-R4	GM18AL	27
LeSabre	5.7L	1994-96	4L60E	GM33	28
Lucerne	3.8L	2005-07	4T65E	GM53	36
Lucerne	4.3L	2005-07	4T65E	GM53	36
Lucerne	4.6L	2005-07	4T80E	GM9401	37
Park Avenue	3.8L	1991-95	4T60E	GM63	34
Park Avenue	3.8L	1991-95	4T60E	GM71	34
Park Avenue	3.8L	1994-96	4T60E	GM63C	34
Park Avenue	3.8L	1994-96	4T60E	GM71C	34
Park Avenue	3.8L	1996-97	4T60E	GM63CW	35
Park Avenue	3.8L	1996-97	4T60E	GM71CW	35
Park Avenue	3.8L	1997-05	4T65E	GM50	36
Rainier	4.2L	2004-07	4L60E	GM55	29
Rainier	5.3L	2004-07	4L60E	GM92	29
Regal	2.8L	1988-89	440-T4	GM42	34
Regal	3.1L	1989-95	440-T4	GM42	34
Regal	3.1L	1996-97	4T60E	GM42C	35
Regal	3.1L	2000-02	4T65E	GM42C	35
Regal	3.8L	1980-87	200C	GM15	12
Regal	3.8L	1982-87	200-4R	GM15	12
Regal	3.8L	1990-92	440-T4	GM71	34
Regal	3.8L	1990-93	440-T4	GM71	34
Regal	3.8L	1993-95	4T60E	GM71	34
Regal	3.8L	1996-99	4T60E, 4T65E	GM42C	35
Regal	3.8L	1996-04	4T60E, 4T65E	GM71C	34
Regal	3.8L	1996-04	4T60E, 4T65E	GM71CW	35
Regal	3.8L	1997-04	4T65E	GM51	36
Regal	3.8L	1999-02	4T65E	GM53	36
Regal	5.0L	1980-87	200C	GM15AL	12
Regal	5.0L	1986-87	200-4R	GM15AL	12
Regal	5.7L	1982-85	200-4R	GM15AL	12
Rendezvous	3.4L	2001-06	4T65E	GM71C	34
Rendezvous	3.4L	2001-06	4T65E	GM71CW	35
Rendezvous	3.5L	2006-07	4T65E	GM53	36
Rendezvous	3.6L	2001-06	4T65E	GM53	36
Riviera	3.8L	1982-85	325-4L	GM15	12
Riviera	3.8L	1986-90	440-T4	GM71	34
Riviera	3.8L	1991-96	4T60E	GM71	34
Riviera	3.8L	1995-96	4T60E	GM71C	34
Riviera	3.8L	1997-99	4T65E	GM50	36
Riviera	5.0L	1982-85	325-4L	GM15AL	12
Riviera	5.7L	1982-85	325-4L	GM15AL	12
Roadmaster	5.0L	1991	700-R4	GM18AL	27
Roadmaster	5.7L	1992-93	700-R4	GM18AL	27
Roadmaster	5.7L	1994-96	4L60E	GM33	28
Skyhawk	1.8L	1982-86	125C	GM73	9
Skyhawk	2.0L	1984-89	125C	GM42	9
Skyhawk	2.0L	1984-89	125C	GM73	9
Skylark	2.3L	1985-98	125C	GM73	9

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BUICK (Cont.)					
Skylark	2.3L	1985-98	4T60E	GM42	34
Skylark	2.3L	1996-98	4T60E	GM42CW	35
Skylark	2.3L	1996-98	4T60E	GM73CW	35
Skylark	3.1L	1994-98	4T60E	GM71	34
Skylark	3.3L	1989	125C	GM42	9
Skylark	3.3L	1989-93	125C	GM71	9
Somerset	2.3L	1995	4T60E	GM73CW	35
Somerset	2.3L	1993-95	125C	GM73	9
Somerset	2.5L	1985-87	125C	GM42	9
Somerset	3.0L	1985-87	125C	GM42	9
Somerset	3.1L	1994-95	4T60E	GM71	34
Somerset	3.3L	1993	125C	GM71	9
Terraza	3.5L	2005-07	4T65E	GM53	36
CADILLAC					
265 SRX	4.4L	2005-07	5L40E	GM38	38
265 SRX	4.6L	2005-07	5L40E	GM38	38
60 Special	4.9L	1993	125C, 440-T4	GM63	9, 34
Allante	4.1L	1987-88	440-T4	GM73	34
Allante	4.5L	1989-92	440-T4	GM73	34
Allante	4.6L	1993	4T80E	GM84	37
Catera	3.0L	1997-98	4L30E	GM24-6	21
Catera	3.0L	1999-01	4L30E	GM24-6H	21
Cimarron	2.0L	1984-86	125C	GM42	9
Cimarron	2.8L	1985-88	125C	GM42	9
Concours	4.6L	1994-04	4T80E	GM86	37
CTS	2.6L	2001-07	5L40E	GM37	38
CTS	2.8L	2001-07	5L40E	GM37	38
CTS	3.2L	2001-07	5L40E	GM37	38
CTS	3.6L	2001-07	5L40E	GM37	38
CTS	3.6L	2001-07	5L40E	GM38	38
CTS	3.6L	2008-Up	6L50E	GM10403	40
Deville	4.1L	1985-87	440-T4	GM73	34
Deville	4.3L	1985	440-T4	GM73	34
Deville	4.5L	1988-90	440-T4	GM73	34
Deville	4.6L	1994-04	4T80E	GM86A	37
Deville	4.6L	1994-04	4T80E	GM84	37
Deville	4.9L	1991-95	4T60E	GM63	34
Deville	4.9L	1991-95	4T60E	GM73	34
DTS	4.6L	2005-10	4T80E	GM9401	37
Eldorado	4.1L	1986-87	440-T4	GM73	34
Eldorado	4.5L	1988-90	440-T4	GM73	34
Eldorado	4.6L	1994-04	4T80E	GM84	37
Eldorado	4.6L	1994-04	4T80E	GM86A	37
Eldorado	4.9L	1993	4T60E	GM73	34
Eldorado	4.9L	1994-04	4T80E	GM86A	37
Eldorado	5.7L	1982-85	325-4L	GM15AL	12
Eldorado	4.1L	1982-85	325-4L	GM15S	13
Eldorado	4.1L	1982-85	325-4L	GM15AH	13
Escalade	5.3L	2002-03	4L65E	GM92	29
Escalade	5.7L	1999-00	4L60E	GM33CW	28
Escalade	6.0L	1999-07	4L65E	GM92	29
Escalade	6.2L	2006-11	6L80E	GM10404	40
Fleetwood	4.1L	1985-87	440-T4	GM73	34
Fleetwood	4.3L	1985	440-T4	GM73	34
Fleetwood	4.5L	1988-90	440-T4	GM73	34
Fleetwood	5.0L	1986-90	200-4R	GM15AL	12
Fleetwood	5.0L	1987-90	400	GM3	17
Fleetwood	5.0L	1991-92	700-R4	GM18AL	27
Fleetwood	5.7L	1982-85	200-4R	GM19	13
Fleetwood	5.7L	1991-93	700-R4	GM18AL	27
Fleetwood	5.7L	1991-93	700-R4	GM18A	27
Fleetwood	5.7L	1994-96	4L60E	GM33	28
Northstar	4.6L	1994-04	4T80E	GM86A	37

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CADILLAC (Cont.)					
Seville	4.1L	1982-85	325-4L	GM15AH	13
Seville	4.1L	1986-87	440-T4	GM73	34
Seville	4.5L	1988-90	440-T4	GM73	34
Seville	4.5L	1988-90	440-T4	GM73	34
Seville	4.6L	1994-04	4T80E	GM84	37
Seville	4.6L	1994-04	4T80E	GM86A	37
Seville	4.6L	1994-04	4T80E	GM86A	37
Seville	4.9L	1991-93	4T60E	GM73	34
Seville	5.7L	1982-85	325-4L	GM15AL	12
SRX	3.6L	2004-07	5L40E	GM38	38
SRX	4.6L	2004-06	5L40E	GM38A	38
STS	3.6L	2006-12	6L50E	GM10403	40
STS	4.4L	2006-10	6L80E	GM10402	40
SUV	4.3L	1993-95	4L60E	GM18A	27
SUV	4.3L	1999-02	4L60E	GM90	29
SUV	5.0L	1990-94	700-R4	GM18AL	27
SUV	5.0L	1999-00	4L60E	GM33CW	28
SUV	5.7L	1990-94	700-R4	GM18AL	27
SUV	5.7L	1995	4L60E	GM18AL	27
SUV	5.7L	1990-00	4L60E	GM33CW	28
SUV	5.7L	1990-00	4L60E	GM35CW	28
SUV	6.0L	2001-02	4L65E	GM92	29
XLR, XLR-V	4.4L	2006-10	6L80E	GM10401	40
CHEVROLET					
Astro (See Vans)					
Acadia	3.6L	2007-12	6T70, 6T75	GM1241	42
Avalanche	5.3L	2002-07	4L60E	GM92	29
Avalanche	8.1L	2002	4L80E	GM88	31
Avalanche	8.1L	2002-06	4L80E	GM88H	31
Aveo	1.4L	2006-11	AW81-40LE	GM1991	134
Aveo	1.6L	2004-11	AW81-40LE	GM1991	134
Beretta	2.0L	1987-89	125C	GM73	9
Beretta	2.2L	1990-96	125C	GM73	9
Beretta	2.2L	1990-96	125C	GM42	9
Beretta	2.3L	1990-93	125C	GM73	9
Beretta	2.8L	1987-89	125C	GM42	9
Beretta	3.1L	1990-96	125C	GM42	9
Beretta	3.1L	1990-96	125C	GM71	9
Blazer (Incl. K5, S10)	2.5L	1985-88	700-R4	GM61HD	24
Blazer (Incl. K5, S10)	2.8L	1983-90	700-R4	GM58HD	24
Blazer (Incl. K5, S10)	4.3L	1988-94	700-R4	GM18A	27
Blazer (Incl. K5, S10)	4.3L	1992-94	700-R4	GM18AH	27
Blazer (Incl. K5, S10)	4.3L	1993-94	4L60E	GM18A	27
Blazer (Incl. K5, S10)	4.3L	1993-94	4L60E	GM18AH	27
Blazer (Incl. K5, S10)	4.3L	1994-98	4L60E	GM31	28
Blazer (Incl. K5, S10)	4.3L	1994-97	4L60E	GM35	28
Blazer (Incl. K5, S10)	4.3L	1995-04	4L60E	GM35CW	28
Blazer (Incl. K5, S10)	4.3L	1998-04	4L60E	GM33CW	28
Blazer (Incl. K5, S10)	4.3L	2005	4L60E	GM95	25
Blazer (Incl. K5, S10)	5.0L	1984-87	700-R4	GM18AL	27
Blazer (Incl. K5, S10)	5.7L	1984-91	700-R4	GM18AL	27
Blazer (Incl. K5, S10)	5.7L	1993-94	4L60E	GM18AL	27
Blazer (Incl. K5, S10)	6.5L	1994	4L80E	GM81	30
C10, C20, C30	4.3L	1985-86	400	GM3	17
C10, C20, C30	4.3L	1985-86	700-R4	GM18AH	27
C10, C20, C30 (Incl. Suburban)	4.8L	1978-86	400	GM3	17
C10, C20, C30 (Incl. Suburban)	5.0L	1980-86	350C	GM16AL	16
C10, C20, C30 (Incl. Suburban)	5.0L	1980-86	400	GM3	17
C10, C20, C30 (Incl. Suburban)	5.0L	1984-86	700-R4	GM18AL	27
C10, C20, C30 (Incl. Suburban)	5.7L	1978-86	400	GM3	17
C10, C20, C30 (Incl. Suburban)	5.7L	1978-86	400	GM3	17
C10, C20, C30 (Incl. Suburban)	5.7L	1980-86	350C	GM16AL	16
C10, C20, C30 (Incl. Suburban)	5.7L	1984-86	700-R4	GM18AL	27

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CHEVROLET (Cont.)					
C10, C20, C30 (Incl. Suburban)	6.2L	1982-85	400	GM6	18
C10, C20, C30 (Incl. Suburban)	6.2L	1984-86	700-R4	GM18AL	27
C1500, C2500, C3500	4.3L	1988-90	400	GM3	17
C1500, C2500, C3500	4.3L	1988-95	700-R4	GM18AH	27
C1500, C2500, C3500	4.3L	1991-95	700-R4	GM18A	27
C1500, C2500, C3500	4.3L	1993-95	4L60E	GM18AH	27
C1500, C2500, C3500	4.3L	1995	4L60E	GM31	28
C1500, C2500, C3500	4.3L	1999-05	4L60E	GM90	29
C1500, C2500, C3500	4.3L	1991-97	4L80E	GM82	30
C1500, C2500, C3500	5.0L	1988-90	400	GM3	17
C1500, C2500, C3500	5.0L	1988-90	400	GM3	17
C1500, C2500, C3500	5.0L	1988-95	700-R4	GM18AL	27
C1500, C2500, C3500	5.0L	1994-95	4L80E	GM81	30
C1500, C2500, C3500	5.0L	1996-97	4L60E	GM33	28
C1500, C2500, C3500	5.0L	1998-99	4L60E	GM33CW	28
C1500, C2500, C3500	5.3L	1999-06	4L60E	GM92	29
C1500, C2500, C3500	5.7L	1988-90	400	GM3	17
C1500, C2500, C3500	5.7L	1988-90	400	GM6	18
C1500, C2500, C3500	5.7L	1989-95	700-R4	GM18AL	27
C1500, C2500, C3500	5.7L	1991-97	4L80E	GM82	30
C1500, C2500, C3500	5.7L	1991-00	4L80E	GM88	31
C1500, C2500, C3500	5.7L	1996-97	4L60E	GM33	28
C1500, C2500, C3500	5.7L	1998-00	4L60E	GM33CW	28
C1500, C2500, C3500	6.0L	2007-11	6L90	GM10404	40
C1500, C2500, C3500	6.0L	2000	4L80E	GM88H	31
C1500, C2500, C3500	6.2L	1988-90	400	GM6	18
C1500, C2500, C3500	6.2L	1988-93	700-R4	GM18AL	27
C1500, C2500, C3500	6.2L	1991-93	4L80E	GM82	30
C1500, C2500, C3500	6.5L	1992-97	4L80E	GM81	30
C1500, C2500, C3500	6.5L	1994-95	4L60E	GM18AL	27
C1500, C2500, C3500	6.5L	1995	4L60E	GM33	28
C1500, C2500, C3500	6.5L	1998-00	4L80E	GM88	31
C1500, C2500, C3500	7.4L	1988-90	400	GM6	18
C1500, C2500, C3500	7.4L	1991-97	4L80E	GM81	30
C1500, C2500, C3500	7.4L	1998-99	4L80E	GM88	31
Camaro	2.5L	1983-86	700-R4	GM61HD	24
Camaro	2.8L	1984-89	700-R4	GM58HD	24
Camaro	2.8L	1986-87	700-R4	GM61HD	24
Camaro	3.1L	1990-92	700-R4	GM58HD	24
Camaro	3.1L T	1990-92	700-R4	GM58CHD	24
Camaro	3.4L S	1993	700-R4	GM58CHD	24
Camaro	3.4L S	1993-94	4L60E	GM58CHD	24
Camaro	3.4L	1994-95	4L60E	GM58CHD	24
Camaro	3.4L S	1995	4L60E	GM59CHD	24
Camaro	3.4L	2000	4L60E	GM92	29
Camaro	3.6L	2009-11	6L50E	GM10403	40
Camaro	3.8L	1995-98	4L60E	GM31	28
Camaro	3.8L	1995-98	4L60E	GM58CHD	24
Camaro	3.8L	1995-98	4L60E	GM59CHD	24
Camaro	3.8L	1999-02	4L60E	GM58CWHD	25
Camaro	3.8L	1999-02	4L60E	GM59CWHD	24
Camaro	5.0L	1984-92	700-R4	GM18AL	27
Camaro	5.0L F	1989-92	700-R4	GM18A	27
Camaro	5.7L	1987-92	700-R4	GM18AL	27
Camaro	5.7L	1990-92	700-R4	GM18A	27
Camaro	5.7L	1993-97	4L60E	GM33	28
Camaro	5.7L	1993-07	4L60E	GM18AL	27
Camaro	5.7L	1998-02	4L60E	GM92	29
Camaro	5.7L	1999-05	4L65E	GM92	29
Caprice	4.3L	1985-87	200C, 200-4R	GM15AH	13
Caprice	4.3L	1987-93	700-R4	GM18AL	27
Caprice	4.3L	1992	700-R4	GM18AH	27
Caprice	4.3L	1994-96	4L60E	GM31	28

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CHEVROLET (Cont.)					
Caprice	4.3L	1994-96	4L60E	GM33	28
Caprice	5.0L	1980-87	200C	GM15AL	12
Caprice	5.0L	1981-90	200-4R	GM15AL	12
Caprice	5.0L	1984-93	700-R4	GM18AL	27
Caprice	5.7L	1985-87	200C	GM15AL	12
Caprice	5.7L	1985-93	700-R4	GM18A, GM18AL	27
Caprice	5.7L	1994-96	4L60E	GM33	28
Cavalier	2.0L	1983-97	125C	GM73	9
Cavalier	2.0L	1998-01	125C	GM73CW	9
Cavalier	2.2L	1997	4T40E	GM73CW	32
Cavalier	2.2L	1990-94	125C	GM73	9
Cavalier	2.2L	1995-98	125C	GM73C	9
Cavalier	2.2L	1995-96	4T40E	GM73C	35
Cavalier	2.2L	1998-01	125C	GM73CW	9
Cavalier	2.2L	1998-02	4T40E	GM73CW	32
Cavalier	2.3L	1995-96	4T40E	GM73C	35
Cavalier	2.4L	1996-97	4T40E	GM73C	35
Cavalier	2.4L	1998-05	4T40E	GM73CW	32
Cavalier	2.8L	1985-93	125C	GM42	9
Cavalier	2.8L	1995-97	125C	GM73	9
Cavalier	2.8L	1998-01	125C	GM73CW	9
Cavalier	3.1L	1985-94	125C	GM42	9
Celebrity	2.5L	1982-90	125C	GM73	9
Celebrity	2.5L	1982-90	125C	GM42	9
Celebrity	2.5L	1984-90	440-T4	GM42	34
Celebrity	2.8L	1982-89	125C	GM42	9
Celebrity	2.8L	1984-89	440-T4	GM42	34
Cobalt	2.0L	2005-10	4T45E	GM73CW	32
Cobalt	2.2L	2005-10	4T45E	GM73CW	32
Colorado	2.8L	2004-06	4L60E	GM58CWHD	25
Colorado	2.9L	2007-10	4L60E	GM58CWHD	25
Colorado	3.5L	2004-06	4L60E	GM56	25
Colorado	3.7L	2007-08	4L60E	GM56	25
Corsica	2.0L	1987-89	125C	GM73	9
Corsica	2.2L	1990-96	125C	GM73	9
Corsica	2.8L	1987-89	125C	GM42	9
Corsica	3.1L	1990-93	125C	GM42	9
Corsica	3.1L	1990-96	125C	GM71	9
Corvette	5.7L	1984-93	700-R4	GM18AL	27
Corvette	5.7L	1990-93	700-R4	GM33	28
Corvette	5.7L	1994-95	4L60E	GM18AL	27
Corvette	5.7L	1994-01	4L60E	GM33	28
Corvette	5.7L	1996-04	4L60E	GM33CW	28
Corvette	6.0L	2005	4L65E	GM54	29
Corvette	6.0L	2005-12	6L80E	GM10405	40
El Camino	4.3L	1985	200C	GM15AH	13
El Camino	4.3L	1986-87	200C	GM15AL	12
El Camino	4.3L	1986-87	200-4R	GM15AL	12
El Camino	5.0L	1985-87	200C	GM15AL	12
El Camino	5.0L	1984-87	200-4R	GM15AL	12
Equinox	3.4L	2004-09	AW55-50SN	TO79	132
Equinox	3.6L	2007-12	6T70, 6T75	GM1241	42
Estate Wagon	5.7L	1992-93	700-R4	GM18AL	27
Estate Wagon	5.7L	1992-93	4L60E	GM18AL	27
Estate Wagon	5.7L	1994-96	4L60E	GM33	28
Express Vans (See Vans)					
G10, G20, G30 Vans (See Vans)					
HHR	2.2L	2006-10	4T45E	GM73CW	32
Impala	3.1L	2000-02	4T65E	GM42C	35
Impala	3.4L	2001-05	4T65E	GM42C	35
Impala	3.4L	2001-05	4T65E	GM42CW	35
Impala	3.5L	2006	4T65E	GM53	36
Impala	3.8L	2000-05	4T65E	GM71C	34

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CHEVROLET (Cont.)					
Impala	3.8L	2000-05	4T65E	GM71CW	35
Impala	3.8L	2001-06	4T65E	GM53	36
Impala	3.9L	2001-06	4T65E	GM53	36
Impala	4.3L	1985	200C	GM15AH	13
Impala	4.3L	1985	200-4R	GM15AH	13
Impala	4.3L	1994-96	4L60E	GM33	28
Impala	5.0L	1980-85	200C	GM15AL	12
Impala	5.0L	1983-85	200-4R	GM15AL	12
Impala	5.0L	1984-85	700-R4	GM18AL	27
Impala	5.3L	2006-07	4T65E	GM53	36
Impala	5.7L	1985	200C	GM15AL	12
Impala	5.7L	1983-85	200-4R	GM19	13
Impala	5.7L	1985	200-4R	GM15AL	12
Impala	5.7L	1984-85	700-R4	GM18AL	27
Impala	5.7L	1994-96	4L60E	GM33	28
K10, K20, K30	4.3L	1985-86	400	GM3	17
K10, K20, K30	4.3L	1985-86	700-R4	GM18AH	27
K10, K20, K30	4.8L	1978-86	400	GM3	17
K10, K20, K30	5.0L	1978-86	400	GM3	17
K10, K20, K30	5.0L	1984-86	700-R4	GM18AL	27
K10, K20, K30 (Incl. Suburban)	5.7L	1978-86	400	GM3	17
K10, K20, K30 (Incl. Suburban)	5.7L	1980-86	350C	GM16AL	16
K10, K20, K30 (Incl. Suburban)	5.7L	1984-86	700-R4	GM18AL	27
K10, K20, K30 (Incl. Suburban)	6.2L	1982-86	400	GM6	18
K10, K20, K30 (Incl. Suburban)	6.2L	1982-86	700-R4	GM18AL	27
K10, K20, K30 (Incl. Suburban)	7.4L	1981-86	400	GM6	18
K1500, K2500, K3500	4.3L	1988-90	400	GM3	17
K1500, K2500, K3500	4.3L	1989-95	700-R4	GM18AH	27
K1500, K2500, K3500	4.3L	1989-95	700-R4	GM18A	27
K1500, K2500, K3500	4.3L	1993-95	4L60E	GM18AH	27
K1500, K2500, K3500	4.3L	1993-95	4L60E	GM18A	27
K1500, K2500, K3500	4.3L	1996-97	4L60E	GM35	28
K1500, K2500, K3500	4.3L	1998	4L60E	GM35CW	28
K1500, K2500, K3500	4.3L	1999-05	4L60E	GM90	29
K1500, K2500, K3500	5.0L	1988-90	400	GM3	17
K1500, K2500, K3500	5.0L	1988-94	700-R4	GM18AL	27
K1500, K2500, K3500	5.0L	1993-96	4L60E	GM18AL	27
K1500, K2500, K3500	5.0L	1996-97	4L60E	GM33	28
K1500, K2500, K3500	5.0L	1998-99	4L60E	GM33CW	28
K1500, K2500, K3500	5.3L	1999-06	4L60E	GM92	29
K1500, K2500, K3500	5.7L	1988	400	GM3	17
K1500, K2500, K3500	5.7L	1988-90	400	GM6	18
K1500, K2500, K3500	5.7L	1988-95	700-R4	GM18AL	27
K1500, K2500, K3500	5.7L	1993-95	4L60E	GM18AL	27
K1500, K2500, K3500	5.7L	1996-97	4L60E	GM33	28
K1500, K2500, K3500	5.7L	1998-00	4L60E	GM33CW	28
K1500, K2500, K3500	5.7L	1991-97	4L80E	GM82	30
K1500, K2500, K3500	5.7L	1998-Up	4L80E	GM88	31
K1500, K2500, K3500	6.0L	2003	4L80E	GM88H	31
K1500, K2500, K3500	6.2L	1988-90	400	GM6	18
K1500, K2500, K3500	6.2L	1988-92	700-R4	GM18AL	27
K1500, K2500, K3500	6.2L	1991-93	4L80E	GM82	30
K1500, K2500, K3500	6.2L	1992-93	700-R4	GM18AL	27
K1500, K2500, K3500	6.5L	1994-95	4L60E	GM18AL	27
K1500, K2500, K3500	6.5L	1995	4L60E	GM33	28
K1500, K2500, K3500	6.5L	1992-97	4L80E	GM81	30
K1500, K2500, K3500	6.5L	1994-97	4L80E	GM81	30
K1500, K2500, K3500	6.5L	1998-00	4L80E	GM88	31
K1500, K2500, K3500	7.4L	1988-90	400	GM6	18
K1500, K2500, K3500	7.4L	1991-97	4L80E	GM81	30
K4500	6.6L	2009	6L80E	GM10406	40
Lumina (Incl. APV)	2.5L	1990-92	125C	GM73	9
Lumina (Incl. APV)	3.1L	1990-95	125C, 440-T4	GM42	9, 34

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Lumina (Incl. APV)	3.1L	1991-97	4T60E	GM42	34
Lumina (Incl. APV)	3.1L	1994-99	4T60E	GM71C	34
Lumina (Incl. APV)	3.1L	1998-99	4T60E	GM42CW	35
Lumina (Incl. APV)	3.1L	1997-99	4T65E	GM42C	35
Lumina (Incl. APV)	3.1L	1999-02	4T65E	GM71C	34
Lumina (Incl. APV)	3.1L	1999-02	4T65E	GM71CW	35
Lumina (Incl. APV)	3.1L	2000-02	4T65E	GM42CW	35
Lumina (Incl. APV)	3.4L	1993-96	4T60E	GM42	34
Lumina (Incl. APV)	3.4L	1996	4T60E	GM42C	35
Lumina (Incl. APV)	3.4L	2000-02	4T65E	GM42CW	35
Lumina (Incl. APV)	3.8L	1992-93	4T60E	GM42	34
Lumina (Incl. APV)	3.8L	1992-93	4T60E	GM71	34
Lumina (Incl. APV)	3.8L	1994-04	4T60E	GM71C	34
Lumina (Incl. APV)	3.8L	1999-02	4T65E	GM71C	34
Lumina (Incl. APV)	3.8L	1999-02	4T65E	GM71CW	35
Lumina (Incl. APV)	3.8L	2001-04	4T65E	GM53	36
Malibu	2.2L	2004-Up	4T40E, 4T45E	GM73CW	32
Malibu	2.4L	1997	4T40E, 4T45E	GM73C	35
Malibu	2.4L	1997-99	4T40E, 4T45E	GM73CW	32
Malibu	2.4L	2008-12	6T40, 6T45	GM1441	41
Malibu	3.1L	1997-98	4T40E, 4T45E	GM71C	34
Malibu	3.1L	1997-03	4T40E, 4T45E	GM71CW	32
Malibu	3.4L	2003-06	4T40E, 4T45E	GM42CW	32
Malibu	3.5L	2003-08	4T40E, 4T45E	GM71CW	32
Metro	1.0L	1998-99	MX17	TO30	207
Metro	1.3L	1998-01	MX17	TO30	207
Monte Carlo	3.4L	1995	4T60E	GM42	34
Monte Carlo	3.4L	1996-97	4T60E	GM42C	35
Monte Carlo	3.4L	1998-05	4T65E	GM42CW	35
Monte Carlo	3.8L	1997-07	4T65E	GM53	36
Monte Carlo	3.8L	1998-04	4T65E	GM71C	34
Monte Carlo	4.3L	1985-87	200-4R	GM15AH	13
Monte Carlo	5.0L	1983-87	200C	GM15AL	12
Monte Carlo	5.0L	1984-88	200-4R	GM15AH	13
Monte Carlo	5.3L	2005-07	4T65E	GM53	36
Monte Carlo SS	5.3L	2006-07	4T65E	GM53	36
Nova	1.6L	1985-88	A131	TO19	208
P20, P30	3.9L	1990	400	GM6	18
P20, P30	4.3L	1990	400	GM3	17
P20, P30	4.3L	1991-97	4L80E	GM82	30
P20, P30	4.8L	1977-89	400	GM3	17
P20, P30	5.7L	1978-89	400	GM3	17
P20, P30	5.7L	1987-90	400	GM6	18
P20, P30	5.7L	1991-97	4L80E	GM82	30
P20, P30	6.2L	1982-90	400	GM6	18
P20, P30	6.2L	1991-97	4L80E	GM82	30
P20, P30	6.5L	1998-99	4L80E	GM88	31
P20, P30	7.4L	1978-90	400	GM6	18
P20, P30	7.4L	1991-97	4L80E	GM81	30
P20, P30	7.4L	1998-99	4L80E	GM88	31
Prizm	1.8L	1998-02	A131	TO19	208
Prizm	1.8L	1998-02	A245E	TO19	208
R10, R20, R30 (Incl. Suburban)	4.3L	1987-88	400	GM3	17
R10, R20, R30 (Incl. Suburban)	4.3L	1987-88	700-R4	GM18AH	27
R10, R20, R30 (Incl. Suburban)	5.7L	1987-88	400	GM3	17
R10, R20, R30 (Incl. Suburban)	5.7L	1987-88	700-R4	GM18AL	27
R10, R20, R30 (Incl. Suburban)	6.2L	1987-88	400	GM6	18
R10, R20, R30 (Incl. Suburban)	6.2L	1987-88	700-R4	GM18AL	27
R10, R20, R30 (Incl. Suburban)	6.2L	1987-88	400	GM6	18
R10, R20, R30 (Incl. Suburban)	6.2L	1987-88	700-R4	GM18AL	27
R10, R20, R30 (Incl. Suburban)	7.4L	1987-88	400	GM6	18
R10, R20, R30 (Incl. Suburban)	7.4L	1987-88	700-R4	GM18AL	27
R1500, R2500, R3500 (Incl. Suburban)	5.7L	1989-91	400	GM3, GM6	17, 18

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R1500, R2500, R3500 (Incl. Suburban)	5.7L	1989-91	700-R4	GM18AL	27
R1500, R2500, R3500 (Incl. Suburban)	5.7L	1991	4L80E	GM82	30
R1500, R2500, R3500 (Incl. Suburban)	6.2L	1989-91	400	GM6	18
R1500, R2500, R3500 (Incl. Suburban)	6.2L	1989-91	700-R4	GM18AL	27
R1500, R2500, R3500 (Incl. Suburban)	6.2L	1991	4L80E	GM82	30
R1500, R2500, R3500 (Incl. Suburban)	7.4L	1989-91	400	GM6	18
R1500, R2500, R3500 (Incl. Suburban)	7.4L	1989-91	700-R4	GM18AL	27
R1500, R2500, R3500 (Incl. Suburban)	7.4L	1991	4L80E	GM81	30
S10 (Incl. Blazer)	1.9L	1983-85	700-R4	GM61HD	24
S10 (Incl. Blazer)	2.2L	1994-03	4L60E	GM61CHD	24
S10 (Incl. Blazer)	2.2L	1998-03	4L60E	GM61CWHD	25
S10 (Incl. Blazer)	2.5L	1985-93	700-R4	GM61HD	24
S10 (Incl. Blazer)	2.8L	1983-93	700-R4	GM58HD	24
S10 (Incl. Blazer)	4.3L	1988-94	700-R4	GM18A	27
S10 (Incl. Blazer)	4.3L	1988-94	700-R4	GM18AH	27
S10 (Incl. Blazer)	4.3L	1993-94	4L60E	GM18A	27
S10 (Incl. Blazer)	4.3L	1993-94	4L60E	GM18AH	27
S10 (Incl. Blazer)	4.3L	1994-98	4L60E	GM35	28
S10 (Incl. Blazer)	4.3L	1994-98	4L60E	GM31	28
S10 (Incl. Blazer)	4.3L	1998-04	4L60E	GM35CW	28
Silverado 1500	4.3L	1999-06	4L60E	GM90	29
Silverado 1500	4.8L	1999-02	4L60E	GM90	29
Silverado 1500	4.8L	2003-06	4L60E	GM92	29
Silverado 1500	5.3L	1999-06	4L60E	GM92	29
Silverado 1500	6.0L	2001-06	4L60E	GM92	29
Silverado 1500HD	6.0L	2001-05	4L80E	GM88H	31
Silverado 2500	5.3L	1999-00	4L60E	GM92	29
Silverado 2500	6.0L	1999-06	4L80E	GM88H	31
Silverado 2500	6.0L	2003	4L65E	GM92	29
Silverado 2500HD	6.0L	2007-09	6L90	GM10404	40
Silverado 2500HD	6.6L	2001-06	1000, 2000, 2400	A7X	48
Silverado 2500HD	8.1L	2001-06	1000, 2000, 2400	A7XH	48
Silverado 2500HD	8.1L	2002-03	4L80E	GM88	31
Silverado 3500	6.0L	2001-06	4L80E	GM88H	31
Silverado 3500	6.6L	2001-05	1000, 2000, 2400	A7X	48
Silverado 3500	8.1L	2001-06	1000, 2000, 2400	A7XH	48
Silverado 3500HD	6.0L	2007-09	6L90	GM10404	40
Tahoe	4.8L	2000-06	4L60E	GM90	29
Tahoe	4.8L	2000-06	4L60E	GM92	29
Tahoe	5.3L	2000-Up	4L60E	GM92	29
Tahoe	5.7L	1995	4L60E	GM18AL	27
Tahoe	5.7L	1996-97	4L60E	GM33	28
Tahoe	5.7L	1998-00	4L60E	GM33CW	28
Tahoe	6.0L	2001-06	4L65E	GM92	29
Tahoe	6.5L	1995-97	4L80E	GM81	30
Tahoe	6.5L	1998-99	4L80E	GM88	31
Tracker	1.6L	1998	180C	GM83	10
Tracker	1.6L	1998-00	A44DE	TO23	203
Tracker	2.0L	1999-03	A44DE	TO37	202
Tracker	2.5L	2001-04	A44DE	TO39	202
Trailblazer	4.2L	2002-07	4L60E	GM55	29
Trailblazer	5.3L	2003-06	4L60E	GM92	29
Trailblazer	6.0L	2006-07	4L70E	GM92	29
Uplander	3.5L	2003-05	4T65E	GM71CW	35
Uplander	3.5L	2006-08	4T65E	GM53	36
Uplander	3.9L	2006-08	4T65E	GM53	36
V10, V20, V30 (Incl. Suburban)	4.3L	1987	400	GM3	17
V10, V20, V30 (Incl. Suburban)	4.3L	1987	700-R4	GM18AH	27
V10, V20, V30 (Incl. Suburban)	5.0L	1987	400	GM3	17
V10, V20, V30 (Incl. Suburban)	5.0L	1987	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	5.7L	1987-88	400	GM3	17
V10, V20, V30 (Incl. Suburban)	5.7L	1987-88	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	6.2L	1987-88	400	GM6	18

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V10, V20, V30 (Incl. Suburban)	6.2L	1987-88	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	7.4L	1987-88	400	GM6	18
V10, V20, V30 (Incl. Suburban)	7.4L	1987-88	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	5.7L	1989-90	400	GM3, GM6	17, 18
V10, V20, V30 (Incl. Suburban)	5.7L	1989-91	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	5.7L	1991	4L80E	GM82	30
V10, V20, V30 (Incl. Suburban)	6.2L	1989-90	400	GM6	18
V10, V20, V30 (Incl. Suburban)	6.2L	1989-91	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	6.2L	1991	4L80E	GM82	30
Van - Astro, Safari	4.3L	1995	4L60E	GM35	28
Van - Astro, Safari	4.3L	1985-94	4L60E	GM18A	27
Van - Astro, Safari	4.3L	1996-97	4L60E	GM35	28
Van - Astro, Safari	4.3L	1998-00	4L60E	GM35CW	28
Van - Astro, Safari	4.3L	2001-06	4L60E	GM90	29
Van - Astro, Safari	4.3L	2001-06	4L60E	GM95	25
Van - Express 1500, 2500, 3500	4.3L	1991-97	4L80E	GM82	30
Van - Express 1500, 2500, 3500	4.3L	1996-97	4L60E	GM35	28
Van - Express 1500, 2500, 3500	4.3L	1999-02	4L60E	GM35CW	28
Van - Express 1500, 2500, 3500	4.3L	2001	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	4.3L	2004-06	4L60E	GM90	29
Van - Express 1500, 2500, 3500	4.8L	2006	4L60E	GM92	29
Van - Express 1500, 2500, 3500	4.8L	2004-09	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	4.8L	2004-09	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	5.0L	1996-97	4L60E	GM33	28
Van - Express 1500, 2500, 3500	5.0L	1998-02	4L60E	GM33CW	28
Van - Express 1500, 2500, 3500	5.3L	2003-05	4L60E	GM92	29
Van - Express 1500, 2500, 3500	5.7L	1996-97	4L60E	GM33	28
Van - Express 1500, 2500, 3500	5.7L	1996-97	4L80E	GM82	30
Van - Express 1500, 2500, 3500	5.7L	1998-02	4L60E	GM33CW	28
Van - Express 1500, 2500, 3500	5.7L	2001-02	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	6.0L	2003-05	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	6.5L	1996-97	4L80E	GM81	30
Van - Express 1500, 2500, 3500	6.5L	1998	4L80E	GM88	31
Van - Express 1500, 2500, 3500	6.5L	2000	4L80E	GM88	31
Van - Express 1500, 2500, 3500	6.6L	2006	4L80E	GM88	31
Van - Express 1500, 2500, 3500	7.4L	1997	4L80E	GM81, GM88	30
Van - G10, G20, G30	4.3L	1985-90	400	GM3	17
Van - G10, G20, G30	4.3L	1985-92	700-R4	GM18AH	27
Van - G10, G20, G30	4.3L	1993-94	4L60E	GM18AH	27
Van - G10, G20, G30	4.3L	1995-96	4L60E	GM35	28
Van - G10, G20, G30	4.3L	1997-98	4L60E	GM35CW	28
Van - G10, G20, G30	5.0L	1978-90	400	GM3	17
Van - G10, G20, G30	5.0L	1980-86	350C	GM16AL	16
Van - G10, G20, G30	5.0L	1984-92	700-R4	GM18AL	27
Van - G10, G20, G30	5.0L	1993-94	4L60E	GM18AL	27
Van - G10, G20, G30	5.0L	1995-96	4L60E	GM33	28
Van - G10, G20, G30	5.7L	1978-90	400	GM3	17
Van - G10, G20, G30	5.7L	1978-90	400	GM6	18
Van - G10, G20, G30	5.7L	1980-86	350C	GM16AL	16
Van - G10, G20, G30	5.7L	1984-92	700-R4	GM18AL	27
Van - G10, G20, G30	5.7L	1993-95	4L60E	GM18AL	27
Van - G10, G20, G30	5.7L	1995-96	4L60E	GM33	28
Van - G10, G20, G30	6.2L	1983-90	400	GM6	18
Van - G10, G20, G30	6.2L	1983-93	700-R4	GM15AL	26
Van - G10, G20, G30	6.5L	1994-95	4L60E	GM18AL	27
Van - G10, G20, G30	7.4L	1989-90	400	GM6	18
CHRYSLER					
300	2.7L	2004-11	42RLE	CR0621	95
300	3.5L	2004-11	42RLE	CR0621	95
300	3.5L	2004-11	722.6	CR7801	99
300	5.7L	2005-06	722.6	MB18B	99
300M	3.5L	1999-01	A606	CR86	112
300M	3.5L	1999-04	A606	CR86	112

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CHRYSLER (Cont.)					
Aspen	5.7L	2007-09	5-45RFE	CR2A	96
Cirrus	2.0L	2000	A604	CR42	110
Cirrus	2.4L	1995-00	A604	CR42	110
Cirrus	2.5L	1995-00	A604	CR42	110
Concorde	2.7L	1998-02	A606	CR86	112
Concorde	2.7L	2003-04	A606	CR0621	112
Concorde	3.2L	1998-01	A606	CR86	112
Concorde	3.3L	1993-96	A606	CR46	112
Concorde	3.5L	1993-97	A606	CR46	112
Concorde	3.5L	2002-04	A606	CR86	112
Conquest	2.6L	1987-89	4N71B	DA14	181
Crossfire (SC)	3.2L	2004	722.6	MB18A	99
Crossfire (Non SC)	3.2L	2004-06	722.6	CR7801	99
Daytona	2.5L	1987	A413, A470, A670	CR39	100
Dynasty	2.5L	1988-93	A413, A470, A670	CR42	101
Dynasty	3.0L	1989-90	A604	CR44	110
Dynasty	3.3L	1990-93	A604	CR45	110
E Class	2.6L	1983-85	A413, A470, A670	CR35	100
Fifth Avenue	5.2L	1983-89	A904	CR9L, CR9H	126
Grand Voyager	3.0L	2000	A604	CR42	110
Grand Voyager	3.3L	2000	A604	CR85	111
Imperial	3.3L	1990	A604	CR44	110
Imperial	3.3L	1991	A604	CR45	110
Imperial	3.8L	1991-93	A604	CR45	110
Intrepid	3.5L	2001-04	A606	CR86	112
Laser	2.2L	1984-85	A413, A470, A670	CR35	100
Laser	2.2L	1986	A413, A470, A670	CR39	100
Lebaron	2.2L	1982-85	A413, A470, A670	CR35	100
Lebaron	2.2L	1982-85	A413, A470, A670	CR43	100
Lebaron	2.2L	1986-87	A413, A470, A670	CR39	100
Lebaron	2.2L	1988-89	A413, A470, A670	CR42	101
Lebaron	2.5L	1986-87	A413, A470, A670	CR39	100
Lebaron	2.5L	1988-93	A413, A470, A670	CR42	101
Lebaron	2.5L	1988-93	A413, A470, A670	CR40	100
Lebaron	2.6L	1982-85	A413, A470, A670	CR35	100
Lebaron	3.0L	1990-95	A413, A470, A670	CR42	101
Lebaron	3.0L	1990	A604	CR44	110
Lebaron	3.0L	1991-95	A604	CR42	110
LHS	3.5L	1994-97	A606	CR46	112
LHS	3.5L	1999-01	A606	CR86	112
Neon	2.0L	2000-02	A413, A470, A670	CR42	101
New Yorker	2.2L	1983-85	A413, A470, A670	CR35	100
New Yorker	2.2L	1986-87	A413, A470, A670	CR39	100
New Yorker	2.2L	1988	A413, A470, A670	CR42	101
New Yorker	2.6L	1983-85	A413, A470, A670	CR35	100
New Yorker	3.0L	1988	A413, A470, A670	CR42	101
New Yorker	3.0L	1988-89	A604	CR44	110
New Yorker	3.3L	1990-93	A604	CR45	110
New Yorker	3.3L	1990-93	A604	CR44	110
New Yorker	3.3L	1993	A606	CR46	112
New Yorker	3.5L	1994-96	A606	CR46	112
New Yorker	3.8L	1991-93	A604	CR45	110
Pacifica	3.5L	2004-07	A604	CR0923	111
Pacifica	3.8L	2005	A604	CR85	111
Pacifica	4.0L	2007-08	62TE	CR1320	97
Prowler	3.5L	2001-02	A606	CR86	112
PT Cruiser	2.4L	2001-07	A604	CR73	110
PT Cruiser	2.4L	2001-07	A604	CR42	110
PT Cruiser	2.4L	2007	A604	CR88	111
PT Cruiser	2.4L	2007	A604	CR85	111
Sebring	2.0L	1995-99	A604	CR42	110
Sebring	2.4L	1996-05	A604	CR73	110
Sebring	2.4L	1996-05	A604	CR42	110

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CHRYSLER (Cont.)					
Sebring	2.4L	2001-05	F4A42	KM27	173
Sebring	2.4L	2007-08	A604	CR0920	111
Sebring	2.5L	1995-00	A604	CR42	110
Sebring	2.7L	1998-04	A604	CR85	111
Sebring	2.7L	2004	A604	CR0923	111
Sebring	2.7L	2005	A604	CR42	110
Sebring	2.7L	2007	A604	CR0921	111
Sebring	3.0L	2001-06	F4A51	KM17	172
Sebring	3.0L	2001-06	F4A51	KM28	174
Sebring	3.5L	2007-09	62TE	CR1320	97
Town & Country	2.2L	1982-85	A413, A470, A670	CR35	100
Town & Country	2.2L	1986-87	A413, A470, A670	CR39	100
Town & Country	2.2L	1988	A413, A470, A670	CR42	101
Town & Country	2.5L	1988	A413, A470, A670	CR42	101
Town & Country	2.6L	1982-85	A413, A470, A670	CR35	100
Town & Country	3.3L	1990	A604	CR44	110
Town & Country	3.3L	1991-97	A604	CR45	110
Town & Country	3.3L	1998-06	A604	CR85	111
Town & Country	3.8L	2008-09	62TE	CR1320	97
Town & Country	3.8L	2010-12	62TE	CR1323	97
Town & Country	3.8L	1994-97	A604	CR45	110
Town & Country	3.8L	1998-05	A604	CR85	111
Town & Country	3.8L	2006-07	A604	CR0923	111
Town & Country	4.0L	2008-09	62TE	CR1320	97
Voyager	2.4L	2000-02	A413, A470, A670	CR42	101
Voyager	2.4L	2000-03	A604	CR42	110
Voyager	3.0L	2000	A604	CR42	110
Voyager	3.3L	2000-03	A604	CR85	111
DODGE					
600	2.2L	1983-85	A413, A470, A670	CR35	100
600	2.2L	1986-87	A413, A470, A670	CR39	100
600	2.2L	1988	A413, A470, A670	CR42	101
600	2.5L	1986-87	A413, A470, A670	CR39	100
600	2.5L	1988	A413, A470, A670	CR42	101
600	2.6L	1983-85	A413, A470, A670	CR35	100
Aries	2.2L	1981-85	A413, A470, A670	CR35	100
Aries	2.2L	1986-89	A413, A470, A670	CR42	101
Aries	2.2L	1986-89	A413, A470, A670	CR39	100
Aries	2.5L	1986-89	A413, A470, A670	CR42	101
Aries	2.5L	1986-89	A413, A470, A670	CR39	100
Aries	2.6L	1981-85	A413, A470, A670	CR35	100
Avenger	2.0L	1995-00	A604	CR42	110
Avenger	2.4L	2007-10	A604	CR0920	111
Avenger	2.5L	1995-00	A604	CR42	110
Avenger	2.7L	2007-10	A604	CR0921	111
Avenger	3.5L	2008-10	62TE	CR1320	97
B150	3.7L	1981-85	A727	CR11H, CR11L	119
B150	3.7L	1981-87	A904	CR9H	126
B150	3.9L	1989-92	A500	CR9H	104
B150	3.9L	1994	A500	CR80	103
B150	3.9L	1984-94	A904	CR28	126
B150	3.9L	1988-89	A904	CR9L	126
B150	3.9L	1990-92	A904	CR9H	126
B150	3.9L	1993	A904	CR9L	126
B150	5.2L	1988-91	A500	CR9L	104
B150	5.2L	1992-93	A500	CR28	105
B150	5.2L	1992-94	A518	CR63	107
B150	5.2L	1981-86	A727	CR11H, CR11L	119
B150	5.2L	1987	A727	CR10L	116
B150	5.2L	1994	A727	CR66	117
B150	5.2L	1981-85	A904	CR9L, CR9H	126
B1500	3.9L	1995	A500	CR80	103
B1500	3.9L	1995	A904	CR28	126

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B1500	3.9L	1996-98	A904	CR91	126
B1500	5.2L	1995	A518	CR63	107
B1500	5.2L	1995	A727	CR66	117
B1500	5.2L	1996-97	A727	CR92	117
B1500	5.2L	1996-98	A518	CR94	107
B1500	5.9L	1998	A518	CR94	107
B250	3.7L	1981-85	A727	CR11H, CR11L	119
B250	3.7L	1981-87	A904	CR9H	126
B250	3.9L	1989-92	A500	CR9H	104
B250	3.9L	1994	A500	CR80	103
B250	3.9L	1993-94	A904	CR28	126
B250	5.2L	1988-89	A500	CR67	104
B250	5.2L	1993	A500	CR9L	104
B250	5.2L	1992-94	A518	CR63	107
B250	5.2L	1981-91	A727	CR11H, CR11L	119
B250	5.2L	1992-94	A727	CR66	117
B250	5.2L	1981-92	A904	CR9L, CR9H	126
B250	5.9L	1992	A518	CR62	106
B250	5.9L	1993-94	A518	CR64	107
B250	5.9L	1981-91	A727	CR26H, CR26L	119
B250	5.9L	1981-91	A727	CR26H, CR26L	119
B2500	3.9L	1995	A500	CR80	103
B2500	3.9L	1995	A904	CR28	126
B2500	3.9L	1996-97	A904	CR91	126
B2500	5.2L	1995	A518	CR63	107
B2500	5.2L	1996-98	A518	CR94	107
B2500	5.2L	1995	A727	CR66	117
B2500	5.2L	1996-97	A727	CR92	117
B2500	5.9L	1995-98	A518	CR94	107
B350	5.2L	1992-94	A518	CR63	107
B350	5.2L	1981-91	A727	CR11H, CR11L	119
B350	5.2L	1992-93	A727	CR66	117
B350	5.2L	1981-89	A904	CR9L, CR9H	126
B350	5.9L	1992	A518	CR62	106
B350	5.9L	1993-94	A518	CR64	107
B350	5.9L	1981-91	A727	CR26H, CR26L	119
B3500	5.2L	1995	A518	CR63	107
B3500	5.2L	1996-98	A518	CR94	107
B3500	5.9L	1995	A518	CR64	107
B3500	5.9L	1996-98	A518	CR94	107
Caliber (22B Code)	2.0L	2006-12	JF011E	CR33N01	183
Caliber (22C Code)	2.0L	2006-12	JF011E	CR33N02	183
Caravan	2.2L	1984-85	A413, A470, A670	CR35	100
Caravan	2.2L	1986-87	A413, A470, A670	CR39	100
Caravan	2.4L	1996-02	A413, A470, A670	CR42	101
Caravan	2.4L	1996-07	A604	CR42	110
Caravan	2.5L	1988-95	A413, A470, A670	CR42	101
Caravan	2.5L	1989-90	A413, A470, A670	CR40	100
Caravan	2.6L	1984-85	A413, A470, A670	CR35	100
Caravan	2.6L	1986-87	A413, A470, A670	CR39	100
Caravan	3.0L	1987-98	A413, A470, A670	CR42	101
Caravan	3.0L	1988-90	A604	CR44	110
Caravan	3.0L	1991-00	A604	CR42	110
Caravan	3.3L	1990-97	A604	CR42	110
Caravan	3.3L	1990-97	A604	CR44	110
Caravan	3.3L	1990-97	A604	CR45	110
Caravan	3.3L	1998-05	A604	CR85	111
Caravan	3.3L	2007-09	62TE	CR1320	97
Caravan	3.3L	2010-12	62TE	CR1323	97
Caravan	3.8L	1996-97	A604	CR45	110
Caravan	3.8L	1998-99	A604	CR85	111
Caravan	3.8L	2007-09	62TE	CR1320	97
Caravan	3.8L	2010-12	62TE	CR1323	97

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DODGE (Cont.)					
Caravan	4.0L	2007-09	62TE	CR1320	97
Caravan	4.0L	2010-12	62TE	CR1323	97
Charger	2.2L	1987	A413, A470, A670	CR39	100
Charger	2.7L	2005-10	42RLE	CR0621	95
Charger	3.5L	2005-10	42RLE	CR0621	95
Charger	3.5L	2005-10	722.6	CR7801	99
Charger	5.7L	2005-11	722.6	MB18B	99
Conquest	2.6L	1984-86	4N71B	DA14	181
Conquest	2.6L	1984-86	4N71B	DA8	181
Conquest	2.6L	1987-91	4N71B	DA14	181
D100	3.7L	1986-87	A904	CR9H	126
D100	3.9L	1988-89	A904	CR9H	126
D100	5.2L	1978-89	A727	CR11H, CR11L	119
D100	5.2L	1986-89	A904	CR9L, CR9H	126
D100	5.9L	1978-88	A727	CR26H, CR26L	119
D150	3.7L	1978-85	A727	CR11H, CR11L	119
D150	3.7L	1985-92	A904	CR9H	126
D150	3.9L	1993	A500	CR28	105
D150	3.9L	1993	A904	CR28	126
D150	5.2L	1978-91	A727	CR11H, CR11L	119
D150	5.2L	1982-92	A904	CR9L, CR9H	126
D150	5.2L	1992-93	A518	CR63	107
D150	5.9L	1993	A518	CR64	107
D150	5.9L	1978-91	A727	CR26H, CR26L	119
D250	3.7L	1981-85	A727	CR11H, CR11L	119
D250	3.7L	1981-87	A904	CR9H	126
D250	3.9L	1992	A500	CR67	104
D250	3.9L	1993	A904	CR28	126
D250	3.9L	1988-91	A904	CR9H	126
D250	5.2L	1981-90	A904	CR9L, CR9H	126
D250	5.2L	1981-91	A727	CR11H, CR11L	119
D250	5.2L	1992-93	A518	CR63	107
D250	5.9L	1992	A518	CR62	106
D250	5.9L	1993	A518	CR64	107
D250	5.9L	1981-88	A727	CR26H, CR26L	119
D250	5.9L	1989-93	A727	CR27	114
D250	5.9L	1991-93	A518	CR27	106
D350	5.9L	1989-93	A727	CR27	114
D350	5.9L	1991-93	A518	CR27	106
D350	5.9L	1993	A518	CR64	107
D350	5.9L	1992	A518	CR62	106
D400	5.9L	1978-91	A727	CR26H, CR26L	119
Dakota	2.5L	1989	A904	CR9L	126
Dakota	2.5L	1989-02	A500	CR47	104
Dakota	2.6L	1986-89	A44D	TO25	201
Dakota	3.7L	2003-11	42RLE	CR46	95
Dakota	3.7L	2003-11	42RLE	CR0621	95
Dakota	3.9L	1987-89	A904	CR9H	126
Dakota	3.9L	1989-92	A500	CR67	104
Dakota	3.9L	1993-95	A500	CR28	105
Dakota	3.9L	1993-95	A518	CR63	107
Dakota	3.9L	1996-03	A500	CR91	104
Dakota	3.9L	2003-05	42RLE	CR0621	95
Dakota	4.7L	2000-11	45RFE	CR2	96
Dakota	5.2L	1989-93	A500	CR9L	104
Dakota	5.2L	1992-95	A518	CR63	107
Dakota	5.2L	1996	A518	CR94	107
Dakota	5.2L	1997-99	A500	CR93	105
Dakota	5.7L	2001-04	45RFE	CR2A	96
Dakota	5.9L	1998-03	A518	CR94	107
Dakota	5.9L	2001-04	45RFE	CR2	96
Daytona	2.2L	1984-85	A413, A470, A670	CR35	100
Daytona	2.2L	1986-87	A413, A470, A670	CR39	100

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DODGE (Cont.)					
Daytona	2.2L	1988-93	A413, A470, A670	CR42	101
Daytona	2.5L	1986-87	A413, A470, A670	CR39	100
Daytona	2.5L	1991	A604	CR42	110
Daytona	3.0L	1990	A604	CR44	110
Daytona	3.0L	1991-93	A604	CR42	110
Daytona	2.5L	1988-93	A413, A470, A670	CR42	101
Daytona	2.5L	1988-93	A413, A470, A670	CR40	100
Diplomat	5.2L	1978-89	A904	CR9L, CR9H	126
Durango	3.7L	2004-08	42RLE	CR0621	95
Durango	3.9L	1998-99	A500	CR91	104
Durango	4.7L	2000-05	45RFE	CR2	96
Durango	4.7L	2003	45RFE	CR2A	96
Durango	5.2L	1998-00	A500	CR91	104
Durango	5.2L	2000-05	45RFE	CR2	96
Durango	5.7L	2004-05	45RFE	CR2A	96
Durango	5.9L	1998-03	A518	CR94	107
Dynasty	2.5L	1993-98	A413, A470, A670	CR42	101
Dynasty	3.0L	1988	A413, A470, A670	CR42	101
Dynasty	3.0L	1988-90	A604	CR44	110
Dynasty	3.0L	1991-93	A604	CR42	110
Dynasty	3.3L	1990-93	A604	CR44	110
Grand Caravan	2.4L	1996-97	A413, A470, A670	CR42	101
Grand Caravan	2.4L	1996-97	A604	CR42	110
Grand Caravan	2.5L	1988	A413, A470, A670	CR42	101
Grand Caravan	3.0L	1988-89	A604	CR44	110
Grand Caravan	3.0L	1992-97	A413, A470, A670	CR42	101
Grand Caravan	3.0L	1992-97	A604	CR42	110
Grand Caravan	3.0L	1998-00	A604	CR88	111
Grand Caravan	3.3L	1990-97	A604	CR45	110
Grand Caravan	3.3L	1990-97	A604	CR44	110
Grand Caravan	3.3L	1998-06	A604	CR85	111
Grand Caravan	3.3L	2001-05	A604	CR85	111
Grand Caravan	3.8L	1994-97	A604	CR45	110
Grand Caravan	3.8L	1998-05	A604	CR85	111
Grand Caravan	3.8L	2007-09	62TE	CR1320	97
Grand Caravan	3.8L	2010-12	62TE	CR1323	97
Grand Caravan	4.0L	2007-09	62TE	CR1320	97
Grand Caravan	4.0L	2010-12	62TE	CR1323	97
Intrepid	2.7L	1998-04	A606	CR86	112
Intrepid	3.2L	1998-01	A606	CR86	112
Intrepid	3.3L	1993-97	A606	CR46	112
Intrepid	3.5L	1993-97	A606	CR46	112
Intrepid	3.5L	2000-04	A606	CR86	112
Journey	2.4L	2008-11	A604	CR0920	111
Journey	3.5L	2009-11	62TE	CR1320	97
Journey	3.5L	2009-11	62TE	CR1323	97
Lancer	2.2L	1985	A413, A470, A670	CR35	100
Lancer	2.2L	1986-87	A413, A470, A670	CR39	100
Lancer	2.2L	1988-89	A413, A470, A670	CR42	101
Lancer	2.5L	1986-87	A413, A470, A670	CR39	100
Lancer	2.5L	1988-89	A413, A470, A670	CR40, CR42	101
Magnum	2.7L	2005-08	42RLE	CR0621	95
Magnum	2.7L	2005-08	722.6	CR7801	99
Magnum	3.5L	2005-08	722.6	CR7801	99
Magnum	3.5L	2005-08	722.6	MB18B	99
Magnum	5.7L	2005-08	722.6	MB18B	99
Mini Ram	2.2L	1984-85	A413, A470, A670	CR35	100
Mini Ram	2.2L	1986-87	A413, A470, A670	CR39	100
Mini Ram	2.5L	1988	A413, A470, A670	CR42	101
Mini Ram	2.6L	1984-85	A413, A470, A670	CR35	100
Mini Ram	2.6L	1986-87	A413, A470, A670	CR39	100
Mini Ram	3.0L	1987-88	A413, A470, A670	CR42	101
Neon	2.0L	1995-01	A413, A470, A670	CR88	101

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DODGE (Cont.)					
Neon	2.0L	1995-01	A413, A470, A670	CR73	101
Neon	2.0L	2002-05	A604	CR73	110
Neon	2.0L	2002-05	A604	CR42	110
Nitro	3.7L	2007-11	42RLE	CR0621	95
Nitro	4.0L	2007-10	722.6	CR7801	99
Omni	1.6L	1983-85	A413, A470, A670	CR35	100
Omni	1.6L	1986	A413, A470, A670	CR39	100
Omni	2.2L	1981-85	A413, A470, A670	CR35	100
Omni	2.2L	1986-87	A413, A470, A670	CR39	100
Omni	2.2L	1988-90	A413, A470, A670	CR42	101
Raider	2.6L	1987-89	03-72 (A44D)	TO25	201
Raider	3.0L	1989	03-72 (A44D)	TO47	203
Ram	3.0L	1986-90	A44D	TO25	201
Ram 1500	3.7L	2002-05	45RFE	CR2	96
Ram 1500	3.9L	1994-95	A500	CR28	105
Ram 1500	3.9L	1994-95	A518	CR63	107
Ram 1500	3.9L	1994-95	A904	CR28	126
Ram 1500	3.9L	1996-01	A500	CR91	104
Ram 1500	4.7L	2002-07	45RFE	CR2	96
Ram 1500	5.2L	1988	A727	CR10L	116
Ram 1500	5.2L	1994-95	A518	CR63	107
Ram 1500	5.2L	1996-01	A518	CR94	107
Ram 1500	5.7L	2003-08	45RFE	CR2A	96
Ram 1500	5.9L	1994-95	A518	CR64	107
Ram 1500	5.9L	1996-03	A518	CR94	107
Ram 1500 Van	3.9L	1999-03	A904	CR91	126
Ram 1500 Van	5.2L	1999-03	A518	CR94	107
Ram 1500 Van	5.9L	1999-03	A518	CR94	107
Ram 2500	5.2L	1994-95	A518	CR63	107
Ram 2500	5.2L	1996	A518	CR94	107
Ram 2500	5.7L	2003-05	45RFE	CR2A	96
Ram 2500	5.9L	1994-95	A518	CR64	107
Ram 2500	5.9L	1996-02	A518	CR94	107
Ram 2500	5.9L	1995-02	A618	CR70	108
Ram 2500	5.9L	2003-07	48RE	CR70X	108
Ram 2500	5.9L	2006-08	68RFE	CR7201	98
Ram 2500	5.9L	2009-12	68RFE	CR7202	98
Ram 2500	6.7L	2003-07	48RE	CR70X	108
Ram 2500	6.7L	2006-08	68RFE	CR7201	98
Ram 2500	6.7L	2009-12	68RFE	CR7202	98
Ram 2500	6.7L	2007-11	AS68RC	CR9901	127
Ram 2500	8.0L	1995-02	A618	CR65	107
Ram 2500 Van	3.9L	2001	A904	CR91	126
Ram 2500 Van	5.2L	1996	A518	CR92	106
Ram 2500 Van	5.2L	1996	A727	CR92	117
Ram 2500 Van	5.2L	1999-03	A518	CR94	107
Ram 2500 Van	5.9L	1999-03	A518	CR94	107
Ram 3500	5.7L	2005-06	45RFE	CR2A	96
Ram 3500	5.9L	1994-95	A518	CR64	107
Ram 3500	5.9L	1996-02	A518	CR94	107
Ram 3500	6.7L	2006-08	68RFE	CR7201	98
Ram 3500	6.7L	2009-12	68RFE	CR7202	98
Ram 3500	6.7L	2006-11	AS68RC	CR9901	127
Ram 3500	8.0L	1995-02	A618	CR65	107
Ram 3500 Van	5.2L	1999-03	A518	CR94	107
Ram 3500 Van	5.9L	1999-03	A518	CR94	107
Ram 50	2.0L	1987-88	03-72 (A44D)	TO25	201
Ram 50	2.4L	1990-93	A500	CR47	104
Ram 50	2.6L	1983-86	A904	CR36	120
Ram 50	2.6L	1987-89	03-72 (A44D)	TO25	201
Ram 50	3.0L	1990-91	A500	CR47	104
Ramcharger	5.2L	1992	A518	CR61	106
Ramcharger	5.2L	1992-93	A518	CR63	107

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Ramcharger	5.2L	1978-91	A727	CR11H, CR11L	119
Ramcharger	5.2L	1988-89	A904	CR9H	126
Ramcharger	5.9L	1978-91	A727	CR26H	119
Ramcharger	5.9L	1992	A518	CR62	106
Ramcharger	5.9L	1993	A518	CR64	107
Royal Mini Ram	2.2L	1984-85	A413, A470, A670	CR35	100
Royal Mini Ram	2.2L	1986-87	A413, A470, A670	CR39	100
Royal Mini Ram	2.6L	1984-85	A413, A470, A670	CR35	100
Royal Mini Ram	2.6L	1986-87	A413, A470, A670	CR39	100
Royal Mini Ram	3.0L	1987	A413, A470, A670	CR42	101
Shadow	2.2L	1987	A413, A470, A670	CR39	100
Shadow	2.2L	1988-90	A413, A470, A670	CR40	100
Shadow	2.2L	1988-94	A413, A470, A670	CR42	101
Shadow	2.5L	1988-94	A413, A470, A670	CR42	101
Shadow	2.5L	1989-90	A413, A470, A670	CR40	100
Shadow	3.0L	1992-94	A604	CR42	110
Spirit	2.5L	1989-90	A413, A470, A670	CR40	100
Spirit	2.5L	1989-95	A413, A470, A670	CR42	101
Spirit	3.0L	1989-90	A604	CR44	110
Spirit	3.0L	1991-95	A604	CR42	110
Spirit	3.0L	1992-95	A413, A470, A670	CR42	101
Sprinter	2.7L	2002-06	722.6	MB18	164
Sprinter	2.9L	2003-05	722.6	MB18	164
Sprinter	3.0L	2007-09	722.6	MB22	165
Stealth	3.0L	1991-96	KM175, F4A33	KM16HD, KM16BHD	171
Stratus	2.0L	1995-00	A604	CR42	110
Stratus	2.4L	1995-04	A604	CR73	110
Stratus	2.4L	1995-04	A604	CR88	111
Stratus	2.4L	1995-04	A604	CR42	110
Stratus	2.4L	2001-05	F4A42	KM24	173
Stratus	2.4L	2001-05	F4A42	KM27	173
Stratus	2.5L	1995-00	A604	CR42	110
Stratus	2.7L	2001-04	A604	CR85	111
Stratus	2.7L	2003	A604	CR0923	111
Stratus	2.7L	2003	A604	CR73	110
Stratus	2.7L	2005	A604	CR42	110
Stratus	3.0L	1993	KM175, F4A33	KM16HD, KM16BHD	171
Stratus	3.0L	2001-05	F4A51	KM28	174
Stratus	3.0L	2001-05	F4A51	KM17	172
W100	3.7L	1986-87	A727	CR11H, CR11L	119
W100	3.7L	1997	A727	CR10H	116
W100	3.9L	1989	A727	CR11H, CR11L	119
W100	5.2L	1986-89	A727	CR11H, CR11L	119
W100	5.9L	1986-88	A727	CR26H	119
W150	3.7L	1978-87	A727	CR11H, CR11L	119
W150	3.9L	1989-91	A727	CR11H, CR11L	119
W150	3.9L	1992	A518	CR63	107
W150	3.9L	1993	A518	CR63	107
W150	5.2L	1978-91	A727	CR11H, CR11L	119
W150	5.2L	1992	A518	CR61	106
W150	5.2L	1992-93	A518	CR63	107
W150	5.9L	1978-91	A727	CR26H	119
W150	5.9L	1993	A518	CR64	107
W250	5.2L	1981-91	A727	CR11H, CR11L	119
W250	5.2L	1992	A518	CR61	106
W250	5.2L	1993	A518	CR63	107
W250, W350	5.9L	1981-92	A727	CR26H	119
W250, W350	5.9L	1989-93	A727	CR27	114
W250, W350	5.9L	1992	A518	CR62	106
W250, W350	5.9L	1993	A518	CR64	107
EAGLE					
Summit	1.6L	1989-90	KM	KM11HD	170
Summit	1.5L	1990-93	KM	KM12HD, KM12BHD	146

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EAGLE (Cont.)					
Talon	1.5L	1990-91	KM	KM12HD, KM12BHD	146
Talon	1.8L	1990-94	KM	KM12HD, KM12BHD	146
Talon	2.0L	1990-94	KM	KM12HD, KM12BHD	146
Talon	2.0L	1990-98	KM	KM14, KM14B	171
Talon	2.0L	1992-98	KM	KM16CHD	171
Vision	3.3L	1993-97	A606	CR46	112
Vision	3.5L	1993-97	A606	CR46	112
FORD					
Aerostar	2.3L	1986-87	A4LD, 4R44E	FM136HD	64
Aerostar	2.8L	1986	A4LD, 4R44E	FM136HD	64
Aerostar	3.0L	1986-97	4R44E	FM136HD	55
Aerostar	4.0L	1990-97	4R55E	FM68HD	55
Blackwood	5.4L	2001	4R100	FM64	84
Blackwood	5.4L	2001	4R100	FM64X	84
Bronco	2.9L	1989	A4LD	FM76HD	64
Bronco	2.9L	1989	A4LD	FM136HD	64
Bronco	4.9L	1985-93	AOD	FM55	65
Bronco	4.9L	1985-93	AOD	FM55B	65
Bronco	5.0L	1985-93	AOD	FM55B	65
Contour	2.0L	1994-00	CD4E	FM80	80
Contour	2.5L	1994-00	CD4E	FM75	80
Cougar	3.8L	1994-95	4R70W	FM69H	67
Cougar	3.8L	1996-97	4R70W	FM69	67
Cougar	4.6L	1994-97	4R70W	FM69	67
Country Squire	5.0L	1987-91	AOD	FM55B	65
Crown Victoria	4.6L	1994	AODE	FM69H	67
Crown Victoria	4.6L	1995-07	4R70W	FM69	67
Crown Victoria	4.6L	1995-07	4R70W	FM70	66
E-150	4.2L	1997-03	4R70W	FM69	67
E-150	4.2L	1997-03	AOD-E	FM69C	67
E-150	4.6L	1997-03	4R70W	FM69	67
E-150	4.6L	2004-06	4R75W	FM69H	67
E-150	4.6L	2005-06	4R75E	FM69	67
E-150	5.0L	1994-96	4R70W	FM69	67
E-150	5.4L	1999-04	4R70W	FM69L	66
E-250	4.2L	1997-03	4R70W	FM69	67
E-250	4.6L	2003-06	4R70W	FM69	67
E-250	4.6L	2007	5R110W	FM160M	58
E-250	5.4L	1999-06	4R70W	FM69L	66
E-250	5.4L	2002-04	4R100	FM64	84
E-250	7.3L	1988-91	C-6	FM126DS	79
E-250	7.3L	1990-94	E4OD	FM64L	84
E-350	5.4L	2002-04	4R100	FM64	84
E-350	5.4L	2002-06	4R70W	FM69L	66
E-350	5.4L	2005-06	5R110W	FM160M	58
E-350	6.0L	2004-06	5R110W	FM160L	58
E-350	6.8L	1997-98	E4OD	FM64L	84
E-350	6.8L	1999-00	4R100	FM64L	84
E-350	6.8L	2000-04	4R100	FM64R	85
E-350	6.8L	2005-06	5R110W	FM160L	58
E-350	7.3L	1988-91	C-6	FM126DS	79
E-350	7.3L	1989-94	E4OD	FM64L	84
E-350	7.3L	1995-98	E4OD	FM64R	85
E-350	7.3L	1998-03	4R100	FM64R	85
E-450	6.0L	2004-05	5R110W	FM160L	58
E-450	6.8L	2003-04	4R100	FM64R	85
E-450	6.8L	2005	5R110W	FM160L	58
E-450	7.3L	2003	4R100	FM64R	85
E-550	6.8L	2003	4R100	FM64R	85
E-550	7.3L	2003	4R100	FM64R	85
Edge	2.0L	2008-12	6F35	FM1441	60
Edge (7L7 Code)	3.5L	2007-12	6F50, 6F55	FM1241	61
Edge (9F8 Code)	3.5L	2007-12	6F50, 6F55	FM1242	61

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Edge (7L7 Code)	3.7L	2007-12	6F50, 6F55	FM1241	61
Edge (9F8 Code)	3.7L	2007-12	6F50, 6F55	FM1242	61
Escape	2.0L	2008-12	6F35	FM1441	60
Escape	2.3L	2005-08	CD4E	FM89L	80
Escape	2.3L	2005-08	CD4E	FM89	80
Escape	3.0L	2001-08	CD4E	FM89L	80
Escape	3.0L	2001-08	CD4E	FM89	80
Escort	1.9L	1991-96	F4A-EL	DA17A	153
Escort	1.9L	1991-96	F4A-EL	DA18	153
Escort	2.0L	1990-03	F4A-EL	DA30	153
Escort LX	2.0L	1990-03	G4A-EL	DA18	153
Excursion	5.4L	2000-04	4R100	FM64	84
Excursion	5.4L	2000-04	4R100	FM64X	84
Excursion	6.0L	2003-05	5R110W	FM160L	58
Excursion	6.8L	2000	E4OD	FM64L	84
Excursion	6.8L	2000	E4OD	FM64LX	84
Excursion	6.8L	2000-05	4R100	FM64R	85
Excursion	7.3L	2000-03	4R100	FM64R	85
Expedition	4.6L	1997-00	4R70W	FM69H	67
Expedition	4.6L	1997-00	4R70W	FM69C	67
Expedition	4.6L	1997-00	4R70W	FM69L	66
Expedition	4.6L	2001-04	4R70W	FM69	67
Expedition	5.4L	1997-03	E4OD	FM64	84
Expedition	5.4L	1997-03	E4OD	FM64X	84
Expedition	5.4L	1998-02	4R100	FM64	84
Expedition	5.4L	2003	4R70W	FM69L	66
Expedition	5.4L	2004-06	4R75W	FM69	67
Expedition	5.4L	2006	4R75E	FM69H	67
Expedition	5.4L	2007-08	6R75	FM9502	62
Expedition	5.4L	2009-12	6R80	FM9501	62
Explorer	2.0L	2010-12	6F35	FM1441	60
Explorer (7L7 Code)	3.5L	2010-12	6F50, 6F55	FM1241	61
Explorer (9F8 Code)	3.5L	2010-12	6F50, 6F55	FM1242	61
Explorer	4.0L	1991-94	A4LD	FM68HD	64
Explorer	4.0L	1995-00	4R55E, 5R55E	FM68HD	55
Explorer	4.0L	2002-03	5R55W	FM138-8	56
Explorer	4.0L	2002-03	5R55W	FM68HD	57
Explorer	4.0L	2004-05	5R55S	FM68HD	57
Explorer	4.6L	2001-03	5R55W	FM138-8	56
Explorer	4.6L	2002-05	5R55S	FM138-8	56
Explorer	4.6L	2004-05	5R55S	FM68HD	57
Explorer (Incl. Sport Trac)	5.4L	2005-10	6R60, 6R75	FM9502	62
Explorer	5.0L	1996-01	4R70W	FM69H	67
Explorer Sport	4.0L	2001-03	5R55E	FM68HD	55
Explorer Sport Trac	4.0L	2001-05	5R55E	FM68HD	55
F-150	3.8L	2004	4R75W	FM69H	67
F-150	4.2L	1996-07	4R70W	FM69	67
F-150	4.2L	2001-03	4R70W	FM69	67
F-150	4.2L	2001-03	4R70W	FM69C	67
F-150	4.2L	2001-03	4R70W	FM69H	67
F-150	4.2L	2004-07	4R75W	FM69	67
F-150	4.6L	1996-98	4R70W	FM69H	67
F-150	4.6L	1999-06	4R70W	FM69	67
F-150	5.0L	1986	C-6	FM127	79
F-150	5.0L	1994-96	4R70W	FM69	67
F-150	5.0L	1995	4R70W	FM69C	67
F-150	5.0L	1996	E4OD	FM64	84
F-150	5.4L	1998	E4OD	FM64	84
F-150	5.4L	1998-04	4R100	FM64	84
F-150	5.4L	1999-03	4R70W	FM69L	66
F-150	5.4L	2000-04	4R100	FM64R	85
F-150	5.4L	2004-08	4R75W	FM69L	66
F-150	5.4L	2004-08	4R75W	FM69H	67

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F-150	5.4L	2006	4R75W	FM69	67
F-150	5.8L	1992	E4OD	FM64	84
F-150	6.4L	2005	5R110W	FM1603	58
F-250	4.2L	1998	4R70W	FM69	67
F-250	4.6L	1997-99	4R70W	FM69H	67
F-250	4.9L	1993	E4OD	FM64L	84
F-250	4.9L	1981-93	C-6	FM128	78
F-250	5.0L	1992-93	E4OD	FM64	84
F-250	5.4L	2001	4R70W	FM69L	66
F-250	5.4L	2001-04	4R100	FM64	84
F-250	5.4L	2005-07	5R110W	FM160M	58
F-250	6.0L	2003-06	5R110W	FM160L	58
F-250	6.2L	2010-12	6R140	FM1261	63
F-250	6.4L	2005	5R110W	FM1603	58
F-250	6.7L	2010-12	6R140	FM1262	63
F-250	6.8L	1999	4R100	FM64L	84
F-250	6.8L	2000-04	4R100	FM64R	85
F-250	6.8L	2005	5R110W	FM160L	58
F-250	6.9L	1985	C-6	FM126DS	79
F-250	7.3L	1988-90	C-6	FM126DS	79
F-250	7.3L	1989-94	E4OD	FM64L	84
F-250	7.3L	1995-97	E4OD	FM64R	85
F-250	7.3L	1999-03	4R100	FM64R	85
F-350	5.4L	2001-04	4R100	FM64	84
F-350	5.4L	2005	5R110W	FM160M	58
F-350	6.0L	2003-06	5R110W	FM160L	58
F-350	6.2L	2010-12	6R140	FM1261	63
F-350	6.4L	2008	5R110W	FM1603	58
F-350	6.7L	2010-12	6R140	FM1262	63
F-350	6.8L	1999-04	4R100	FM64R	85
F-350	6.8L	2005	5R110W	FM160L	58
F-350	7.3L	1988-90	C-6	FM126DS	79
F-350	7.3L	1989-94	E4OD	FM64L	84
F-350	7.3L	1995-97	E4OD	FM64R	85
F-350	7.3L	1996	E4OD	FM64Q	85
F-350	7.3L	1999-03	4R100	FM64R	85
F450	6.8L	1999	E4OD	FM64L	84
F450	6.8L	1999	E4OD	FM64LX	84
F450	6.8L	1999-04	4R100	FM64R	85
F450	6.8L	2005	5R110W	FM160L	58
F450	7.3L	1999-03	4R100	FM64R	85
F450	7.5L	1995	E4OD	FM64R	85
F-550	6.0L	2003-06	5R110W	FM160L	58
F-550	6.4L	2008	5R110W	FM1603	58
F-550	6.8L	1999-04	4R100	FM64R	85
F-550	6.8L	2005	5R110W	FM160L	58
F-550	7.3L	1999-03	4R100	FM64R	85
Five Hundred	3.0L	2005-07	CFT30	FM3301	81
Five Hundred	3.0L	2005-07	AF21, TF-81SC	FM3902	88
Flex (7L7 Code)	3.5L	2008-12	6F50, 6F55	FM1241	61
Flex (9F8 Code)	3.5L	2008-12	6F50, 6F55	FM1242	61
Focus	1.6L	2000-08	FN4A-EL, 4F27E	DA54	156
Focus	2.0L	2000-08	FN4A-EL, 4F27E	DA54	156
Focus	2.3L	2000-08	FN4A-EL, 4F27E	DA54	156
Freestar	3.9L	2004-06	AX4N, 4F50N	FM90LS	71
Freestar	4.2L	2004-07	4F50N	FM90LS	71
Freestyle	3.0L	2005-07	CFT30	FM3301	81
Freestyle	3.0L	2005-07	AF21, TF-81SC	FM3902	88
Fusion	2.0L	2008-12	6F35	FM1441	60
Fusion	2.3L	2006-08	FNR5	FM4800	158
Fusion	3.0L	2006-09	AF21, TF-81SC	FM3901	88
Fusion (7L7 Code)	3.5L	2009-12	6F50, 6F55	FM1241	61
Fusion (9F8 Code)	3.5L	2009-12	6F50, 6F55	FM1242	61

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Mustang	2.3L	1993	A4LD	FM68HD	64
Mustang	3.8L	2000	4R70W	FM69C	67
Mustang	3.8L	1994-03	4R70W	FM69H	67
Mustang	3.8L	1996-97	4R70W	FM69	67
Mustang	4.0L	2005-06	5R55E	FM4600	57
Mustang	4.0L	2003-07	5R55S, 5R55W	FM4600	57
Mustang	4.6L	2003-07	5R55S, 5R55W	FM138-8	56
Mustang	5.0L	1994	AODE	FM69	67
Mustang GT	4.6L	1996-03	4R70W	FM70	66
Mustang GT	5.0L	1994-95	AODE	FM69H	67
Navigator	5.4L	1997-99	E4OD	FM64	84
Navigator	5.4L	1997-99	E4OD	FM64X	84
Navigator	5.4L	1999-04	4R100	FM64	84
Navigator	5.4L	1999-04	4R100	FM64X	84
Probe	2.0L	1989	G4A	FM65	154
Probe	2.0L	1993	F4A-EL	DA30	153
Probe	2.0L	1991-93	G4A-EL	DA18	153
Probe	2.0L	1993-97	G4A-EL	FM84	154
Probe	2.0L	1994-97	CD4E	FM80	80
Probe	2.2L	1988-92	G4A-EL	FM65	154
Probe	2.5L	1992-94	G4A-EL	FM85	155
Probe	3.0L	1989-90	G4A-EL	FM65	154
Probe	3.0L	1989-93	G4A-EL	FM65A	154
Probe	3.0L	1990-97	G4A-EL	FM86	154
Ranger	2.0L	1984-88	A4LD	FM136HD	64
Ranger	2.3L	1996-05	4R44E, 5R44E	FM136HD	55
Ranger	2.5L	1998-99	4R44E	FM136HD	55
Ranger	2.5L	2000-01	4R44E	FM136HD	55
Ranger	3.0L	1993	A4LD	FM136HD	64
Ranger	3.0L	2000-08	4R44E	FM136HD	55
Ranger	3.0L	2001-03	5R44E	FM134HD	55
Ranger	3.0L	2002-06	5R44E	FM136HD	55
Ranger	4.0L	1996-07	4R55E, 5R55E	FM68HD	55
Taurus	3.0L	1986-90	AXOD	FM61	69
Taurus	3.0L	1991	AX4S	FM61	69
Taurus	3.0L	1992-93	AX4S, AX4N	FM61R	69
Taurus	3.0L	1994-03	AX4S, AX4N	FM71	70
Taurus	3.0L	1998-03	AX4N	FM71H	70
Taurus	3.0L	1998	AX4S	FM71	70
Taurus	3.0L	1999-03	AX4S, AX4N	FM71H	70
Taurus	3.0L	2004-07	AX4N, 4F50N	FM90	71
Taurus	3.2L	1993-95	AX4S	FM59	70
Taurus	3.4L	1995	AX4S	FM59	70
Taurus	3.4L	1996	AX4N	FM59A	70
Taurus	3.4L	1997	AX4N	FM59	70
Taurus	3.4L	1997	AX4N	FM59A	70
Taurus	3.4L	1998-99	AX4N	FM59A	70
Taurus	3.8L	1990-91	AX4S	FM61C	69
Taurus	3.8L	1992-95	AX4S	FM61	69
Taurus	3.8L	1992-95	AX4S	FM61M	69
Taurus	3.8L	1994-95	AX4S	FM71	70
Taurus	3.8L	1994-95	AX4S	FM71C	70
Taurus	3.8L	1999	AX4N	FM71H	70
Taurus	3.8L	1988-90	AXOD	FM61C	69
Taurus	3.8L	1992-93	AX4S	FM61M	69
Taurus	3.8L	1994-95	AX4S	FM71C	70
Taurus SHO	3.0L	1992-93	AX4S	FM60	69
Taurus SHO	3.2L	1993-95	AX4S	FM60	69
Taurus SHO	3.2L	1994-95	AX4S	FM59	70
Taurus SHO	3.4L	1996-99	AX4N	FM59	70
Taurus SHO	3.4L	1999	AX4N	FM59A	70
Thunderbird	3.8L	1991	AOD	FM55B	65
Thunderbird	3.8L	1994-97	4R70W	FM69H	67

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Thunderbird	3.8L	1994-97	4R70W	FM69	67
Thunderbird	3.8L	1994-95	4R70W	FM69L	66
Thunderbird	3.9L	2002	5R55N	FM138-8	56
Thunderbird	3.9L	2003-05	5R55S	FM138-8	56
Thunderbird	4.6L	1994-97	4R70W	FM69	67
Tribute	2.3L	2004-06	CD4E	FM89L	80
Tribute	3.0L	2000-03	CD4E	FM89	80
Tribute	3.0L	2004-06	CD4E	FM89L	80
Windstar	3.0L	1994-00	AX4S	FM71	70
Windstar	3.0L	1998-00	AX4S	FM71H	70
Windstar	3.8L	1994-01	AX4S	FM71	70
Windstar	3.8L	1994-01	AX4S	FM71C	70
Windstar	3.8L	1994-01	AX4S	FM71H	70
Windstar	3.8L	2001-03	AX4N	FM71	70
GEO					
Metro	1.3L	1989-01	MX17	TO30	207
Metro	1.3L	1989-01	MX17	TO29	207
Prizm	1.6L	1989-91	KM176, F4A21	KM11HD	170
Prism	1.6L	1992-94	A130, MX1	TO33	208
Prism	1.8L	2000	A245E	TO19	208
Storm	1.8L	1990-92	JF403E	DA20	186
Tracker	1.6L	1995	3L30	GM83	10
Tracker	1.6L	1996-97	A44DE	TO23	203
Tracker	2.0L	2000-01	A44DE	TO37	202
Tracker	2.5L	2001	A44DE	TO39	202
GMC					
C1500, C2500, C3500	4.3L	1985-90	400	GM3	17
C1500, C2500, C3500	4.3L	1985-86	700-R4	GM18AH	27
C1500, C2500, C3500	4.3L	1988-93	700-R4	GM18A	27
C1500, C2500, C3500	4.3L	1989	700-R4	GM18AL	27
C1500, C2500, C3500	4.3L	1993-94	4L60E	GM18A	27
C1500, C2500, C3500	4.3L	1995-97	4L60E	GM35	28
C1500, C2500, C3500	4.3L	1998	4L60E	GM35CW	28
C1500, C2500, C3500	4.3L	1999-02	4L60E	GM90	29
C1500, C2500, C3500	4.3L	1991-97	4L80E	GM82	30
C1500, C2500, C3500 (Incl. Suburban)	4.8L	1979-86	400	GM3	17
C1500, C2500, C3500 (Incl. Suburban)	4.8L	1999-05	4L60E	GM90	29
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1980-86	350C	GM16AL	16
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1980-90	400	GM3	17
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1984-86	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1984-92	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1993-95	4L60E	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1996-97	4L60E	GM33	28
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1998-00	4L60E	GM33CW	28
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1991-94	4L80E	GM81	30
C1500, C2500, C3500 (Incl. Suburban)	5.3L	1999-02	4L60E	GM92	29
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1979-90	400	GM3	17
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1984-95	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1993-96	4L60E	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1996-99	4L60E	GM33	28
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1998-99	4L60E	GM33CW	28
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1991-97	4L80E	GM82	30
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1991-00	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	6.0L	1999-05	4L60E	GM92	29
C1500, C2500, C3500 (Incl. Suburban)	6.0L	2000-02	4L80E	GM88H	31
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1986	350C	GM16AL	16
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1982-90	400	GM6	18
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1984-93	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1991-93	4L80E	GM82	30
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1991-95	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	6.5L	1992-95	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	6.5L	1994-95	4L60E	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	6.5L	1992-97	4L80E	GM81	30

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C1500, C2500, C3500 (Incl. Suburban)	6.5L	1998-02	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	6.5L	1998-00	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	6.6L	2001-07	1000, 2000, 2400	A7X	48
C1500, C2500, C3500 (Incl. Suburban)	7.4L	1979-86	400	GM6	18
C1500, C2500, C3500 (Incl. Suburban)	7.4L	1991-97	4L80E	GM81	30
C1500, C2500, C3500 (Incl. Suburban)	7.4L	1998-00	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	8.1L	2001-07	1000, 2000, 2400	A7XH	48
Caballero	4.3L	1985-87	200-4R	GM15	12
Caballero	4.3L	1985-87	200C	GM15	12
Caballero	4.3L	1985-87	700-R4	GM18A	27
Caballero	5.0L	1987	200C	GM15AL	12
Caballero	5.0L	1987	700-R4	GM18AL	27
Canyon	2.8L	2004-06	4L60E	GM58CWHD	25
Canyon	2.9L	2007-09	4L60E	GM58CWHD	25
Canyon	3.5L	2004-06	4L60E	GM56	25
Canyon	3.7L	2007-08	4L60E	GM56	25
Envoy	4.2L	2002-07	4L60E	GM55	29
Envoy	5.3L	2004	4L60E	GM92	29
G1500, G2500, G3500	4.3L	1985-90	400	GM3	17
G1500, G2500, G3500	4.3L	1985-92	700-R4	GM18A	27
G1500, G2500, G3500	4.3L	1993-94	4L60E	GM18A	27
G1500, G2500, G3500	4.3L	1995	4L60E	GM35	28
G1500, G2500, G3500	4.3L	1991-97	4L80E	GM82	30
G1500, G2500, G3500	5.0L	1987	400	GM3	17
G1500, G2500, G3500	5.0L	1987	700-R4	GM18AL	27
G1500, G2500, G3500	5.7L	1987	400	GM3	17
G1500, G2500, G3500	5.7L	1987	700-R4	GM18AL	27
G1500, G2500, G3500	6.2L	1987	400	GM6	18
G1500, G2500, G3500	6.2L	1987	700-R4	GM18AL	27
Jimmy	4.3L	1995-97	4L60E	GM35	28
Jimmy	4.3L	1998-05	4L60E	GM35CW	28
Jimmy	5.0L	1987	700-R4	GM18AL	27
Jimmy	5.7L	1987	700-R4	GM18AL	27
Jimmy	6.2L	1987	700-R4	GM18AL	27
K1500, K2500, K3500	4.3L	1985-90	400	GM3	17
K1500, K2500, K3500	4.3L	1985-93	700-R4	GM18A	27
K1500, K2500, K3500	4.3L	1991-93	700-R4	GM18AL	27
K1500, K2500, K3500	4.3L	1993-95	4L60E	GM18A	27
K1500, K2500, K3500	4.3L	1996-97	4L60E	GM35	28
K1500, K2500, K3500	4.3L	1998	4L60E	GM35CW	28
K1500, K2500, K3500	4.3L	1999-02	4L60E	GM90	29
K1500, K2500, K3500	4.3L	1991-97	4L80E	GM82	30
K1500, K2500, K3500	4.8L	1999-05	4L60E	GM90	29
K1500, K2500, K3500	5.0L	1989-95	700-R4	GM18AL	27
K1500, K2500, K3500	5.0L	1996-97	4L60E	GM33	28
K1500, K2500, K3500	5.0L	1998-00	4L60E	GM33CW	28
K1500, K2500, K3500	5.3L	1999-02	4L60E	GM92	29
K1500, K2500, K3500	5.7L	1993-95	4L60E	GM18AL	27
K1500, K2500, K3500	5.7L	1996-97	4L60E	GM33	28
K1500, K2500, K3500	5.7L	1998-00	4L60E	GM35CW	28
K1500, K2500, K3500	5.7L	1991-00	4L80E	GM88	31
K1500, K2500, K3500	5.7L	1993-97	4L80E	GM82	30
K1500, K2500, K3500	5.7L	1989-95	700-R4	GM18AL	27
K1500, K2500, K3500	6.0L	1999-05	4L60E	GM92	29
K1500, K2500, K3500	6.0L	2000-02	4L80E	GM88H	31
K1500, K2500, K3500	6.2L	1992-93	700-R4	GM18AL	27
K1500, K2500, K3500	6.2L	1993	4L60E	GM18AL	27
K1500, K2500, K3500	6.2L	1991-95	4L80E	GM88	31
K1500, K2500, K3500	6.5L	1992-93	700-R4	GM18AL	27
K1500, K2500, K3500	6.5L	1993-95	4L60E	GM18AL	27
K1500, K2500, K3500	6.5L	1995	4L60E	GM33	28
K1500, K2500, K3500	6.5L	1996-97	4L80E	GM81	30
K1500, K2500, K3500	6.6L	2001-07	1000, 2000, 2400	A7X	48

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K1500, K2500, K3500	7.4L	1991-97	4L80E	GM81	30
K1500, K2500, K3500	7.4L	1998-00	4L80E	GM88	31
K1500, K2500, K3500	8.1L	2001-07	1000, 2000, 2400	A7XH	48
P2500, P3500	4.3L	1990	400	GM3	17
P2500, P3500	4.3L	1991-97	4L80E	GM82	30
P2500, P3500	4.8L	ALL	400	GM3	17
P2500, P3500	5.7L	ALL	400	GM3	17
P2500, P3500	6.2L	ALL	400	GM6	18
P2500, P3500	7.4L	ALL	400	GM6	18
R1500, 2500, R3500	4.3L	ALL	400	GM3	17
R1500, 2500, R3500	4.3L	ALL	700-R4	GM18A	27
R1500, 2500, R3500	4.8L	ALL	400	GM3	17
R1500, 2500, R3500 (Incl. Suburban)	5.0L	ALL	400	GM3	17
R1500, 2500, R3500 (Incl. Suburban)	5.0L	ALL	700-R4	GM18AL	27
R1500, 2500, R3500 (Incl. Suburban)	5.7L	ALL	400	GM3	17
R1500, 2500, R3500 (Incl. Suburban)	5.7L	ALL	400	GM6	18
R1500, 2500, R3500 (Incl. Suburban)	5.7L	ALL	700-R4	GM18AL	27
R1500, 2500, R3500 (Incl. Suburban)	6.2L	ALL	400	GM6	18
R1500, 2500, R3500 (Incl. Suburban)	6.2L	ALL	700-R4	GM18AL	27
R1500, 2500, R3500 (Incl. Suburban)	7.4L	ALL	400	GM6	18
S15	1.9L	1982-85	700-R4	GM61HD	24
S15	2.2L	1984-85	700-R4	GM61HD	24
S15	2.2L	1994-97	4L60E	GM61CHD	24
S15	2.2L	1998-02	4L60E	GM61CHD	24
S15	2.5L	1985-88	700-R4	GM61HD	24
S15	2.5L	1989-93	700-R4	GM61HD	24
S15	2.8L	1983-90	700-R4	GM58HD	24
S15	2.8L	1989-93	700-R4	GM61HD	24
S15	4.3L	1990-94	700-R4	GM18A	27
S15	4.3L	1992-94	700-R4	GM18AH	27
S15	4.3L	1994-97	4L60E	GM35	28
Sierra	4.3L	1999-06	4L60E	GM90	29
Sierra	4.8L	2002-06	4L60E	GM90	29
Sierra	5.3L	2002-06	4L60E	GM92	29
Sierra	6.0L	2001-02	4L65E	GM92	29
Sierra	6.0L	2000-06	4L80E	GM88H	31
Sierra	6.0L	2007-09	6L90	GM10404	40
Sierra	6.6L	2001-03	1000, 2000, 2400	A7X	48
Sierra	8.1L	2001	1000, 2000, 2400	A7XH	48
Sonoma	2.2L	1994-03	4L60E	GM61CHD	24
Sonoma	2.2L	1994-03	4L60E	GM61CWHD	25
Sonoma	2.5L	1991-93	700-R4	GM61HD	24
Sonoma	2.8L	1991-93	700-R4	GM58HD	24
Sonoma	4.3L	1991-92	700-R4	GM18A	27
Sonoma	4.3L	1993-94	4L60E	GM18A	27
Sonoma	4.3L	1993-94	4L60E	GM18AH	27
Sonoma	4.3L	1995-97	4L60E	GM35	28
Sonoma	4.3L	1998-04	4L60E	GM35CW	28
SUV (4WD)	4.3L	1993-95	4L60E	GM18A	27
SUV (4WD)	4.3L	1999-02	4L60E	GM90	29
SUV (4WD)	5.0L	1990-94	700-R4	GM18AL	27
SUV (4WD)	5.0L	1999-00	4L60E	GM33CW	28
SUV (4WD)	5.7L	1990-95	700-R4	GM18AL	27
SUV (4WD)	5.7L	1996-98	4L80E	GM88	31
SUV (4WD)	5.7L	1998-00	4L60E	GM35CW	28
SUV (4WD)	6.0L	2001-02	4L65E	GM92	29
SUV 1500, 2500, 3500 (4WD)	6.5L	1996-97	4L80E	GM81	30
Tracker	1.6L	1989-91	180C	GM83	10
Typhoon	4.3L	1992-93	700-R4	GM18A	27
Van (Incl. Safari)	2.5L	1985-90	700-R4	GM61HD	24
Van (Incl. Safari)	2.5L	1985-90	700-R4	GM58HD	24
Van (Incl. Safari)	4.3L	1985-95	700-R4	GM18A	27
Van (Incl. Safari)	4.3L	1993-94	4L60E	GM18A	27

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Van (Incl. Safari)	4.3L	1995-04	4L60E	GM35	28
Van (Incl. Safari)	4.3L	1998-04	4L60E	GM35CW	28
Van (Incl. Savana)	4.3L	2003-06	4L60E	GM90	29
Van (Incl. Safari)	4.3L	2005	4L60E, 4L65E	GM95	25
Van (Incl. Safari)	4.3L	1991-97	4L80E	GM82	30
Van (Incl. Safari)	4.3L	1996-97	4L80E	GM82	30
Van (Incl. Savana)	4.3L	2001-02	4L80E	GM88H	31
Van	4.8L	1987	400	GM3	17
Van	4.8L	1987	700-R4	GM18AL	27
Van (Incl. Savana)	4.8L	2004-05	4L80E	GM88H	31
Van (Incl. Savana)	4.8L	2007	4L80E	GM88H	31
Van	5.0L	1987	400	GM3	17
Van	5.0L	1987-95	700-R4	GM18AL	27
Van	5.0L	1995	4L60E	GM33	28
Van	5.0L	1996-97	4L60E	GM33	28
Van	5.0L	1998-02	4L60E	GM33CW	28
Van (Incl. Suburban)	5.7L	1987	400	GM3	17
Van (Incl. Suburban)	5.7L	1987-95	700-R4	GM18AL	27
Van	5.7L	1995-97	4L60E	GM33	28
Van (Incl. Savana)	5.7L	1998-02	4L60E	GM33CW	28
Van (Incl. Suburban)	5.7L	1991-97	4L80E	GM82	30
Van (Incl. Savana)	5.7L	1997	4L80E	GM82	30
Van (Incl. Savana)	5.7L	2002	4L80E	GM88H	31
Van (Incl. Savana)	6.0L	2003-06	4L80E	GM88H	31
Van (Incl. Savana)	6.0L	2003-06	4L80E	GM88H	31
Van (Incl. Suburban)	6.2L	1987	400	GM6	18
Van (Incl. Suburban)	6.2L	1987-93	700-R4	GM18AL	27
Van	6.2L	1992-93	4L80E	GM88	31
Van	6.5L	1994-95	4L60E	GM18AL	27
Van	6.5L	1995	4L60E	GM33	28
Van	6.5L	1994-96	4L80E	GM81	30
Van (Incl. Savana)	6.5L	1998-02	4L80E	GM88	31
Van (Incl. Savana)	6.6L	2006	4L85E	GM88	31
Van	7.4L	1987	400	GM6	18
Van	7.4L	1991-97	4L80E	GM81	30
Van	7.4L	1998-00	4L80E	GM88	31
Van	8.1L	2001-02	4L80E	GM88	31
Yukon	4.8L	2002	4L60E	GM90	29
Yukon	4.8L	2003-04	4L60E	GM92	29
Yukon	5.3L	2002-06	4L60E	GM92	29
Yukon	5.7L	1998-00	4L60E	GM33CW	28
Yukon	6.0L	2000-05	4L60E, 4L65E	GM92	29
Yukon	6.0L	2002-05	4L80E	GM88H	31
Yukon	6.0L	2006-11	6L80E	GM10404	40
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Accord	2.3L	1998-02	BAXA, MAXA	HO66	142
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CRV	2.4L	2002-07	MRVA, GPPA	HO81	144
CRX	1.5L	1981-85	AW	HO57	141
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Odyssey	2.2L	1995-97	MDWA, MPJA	HO78	142
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Odyssey	2.3L	1998	MDWA, MPJA	HO77	142
Odyssey	3.5L	1999-06	B7YA, B7TA	HO80	144
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Prelude	2.3L	1997-98	MP1A, M6HA	HO78	142
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H2	6.2L	2005-10	6L80E	GM10405	40
H3	3.5L	2004-Up	4L60E	GM56	25
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Hummer	6.5L	2000	4L80E	GM88	31
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Elantra	1.5L	1992-97		KM12HD, KM12BHD	146
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Sonata	3.0L	1988-92	KM175, 177	KM9	147
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XG350	3.5L	2002-05	F5A51	KM17	172
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G20	2.0L	1991-93	RL4F03A	DA28	185
G20	2.0L	1991-00	RE4F03A	DA48	185
G35	3.5L	2003-05	RE5R05A	DA61	192
I30	3.0L	1995-01	RE4F04A, RE4F04B	DA46	186
I30	3.0L	1996-01	RE4F04A	DA42	187
I30	3.0L	1996-01	RE4F04B	DA46	186
I35	3.5L	2002	RE4F04B	DA42L	187
J30	2.4L	1987-95	RE4R01A	DA16HD	188
J30	3.0L	1992-97	RE4R01A	DA41	190
J30	3.0L	1990-95	RE4R01A	DA16HD	188
J30	3.0L	1996-97	RE4R01A	DA31	189
M30	3.0L	1990-92	RE4R01A	DA16HD	188
Q45	4.1L	1997-98	RE4R03A	DA62	190
Q45	4.5L	1990-01	RE4R03A	DA39	190
Q45	4.5L	1990-01	RE4R03A	DA62	190
Q45	4.5L	1990-93	RE4R03A	DA39	190
Q45	4.5L	1993	RE4R03A	DA41	190
Q45	4.5L	2002-07	RE5R05A	DA59	192
Q45	4.5L	2002-07	RE5R05A	DA61	192
QX4	3.3L	1997-03	RE4R01A	DA31	189
QX4	3.5L	1997-03	RE4R01A	DA31	189
QX4	3.5L	2000	RE4R01A	DA56	189
QX56	5.6L	2005	RE5R05A	DA60	192
ISUZU					
Amigo	2.2L	1998-00	4L30E	GM24	20
Amigo	2.2L	2000	4L30E	GM87CW	21
Amigo	2.6L	1993	A44DL	TO47	203
Amigo	3.2L	1997-99	4L30E	GM87	21
Amigo	3.2L	1998-99	440-T4	GM71	34
Amigo	3.2L	1999	4L30E	GM24	20
Amigo	3.2L	1999-00	4L30E	GM87CW	21
Axiom	3.5L	1999-06	4L30E	GM87CW	21
Box Truck Diesel	3.9L	1987-04	JR403E	TO61	135
Box Truck Diesel	4.7L	1987-04	JR403E	TO61	135
Cabover Diesel	ALL	1997	AT545	A6HD	50
Hombre	2.2L	1997-00	4L60E	GM61CHD	24
Hombre	4.3L	1997-00	4L60E	GM35CW	28
Hombre	4.3L	1998-00	4L60E	GM90	29
I-Mark DLX	1.8L	1984-85	A40, A41, A43	TO10	200

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ISUZU (Cont.)					
I-Mark DLX	1.8L	1984-85	A41	TO20	200
Impulse	1.8L	1990-92	JF403E	DA20	186
NPR Cab Over	4.8L	1999	AW450-43LE	TO61B	135
NPR Cab Over	5.7L	2003	4L80E	GM88H	31
Oasis	2.2L	1996	MDJA	HO66	142
Oasis	2.2L	1996	MDJA	HO78	142
Oasis	2.2L	1998	MPJA	HO77	142
Pickup	1.9L	1983-86	A40, A41, A43	TO10	200
Pickup	1.9L	1983-86	A41	TO20	200
Pickup	2.2L	1998	4L60E	GM61CHD	24
Pickup	2.2L	1981-87	A40, A41, A43	TO10	200
Pickup	2.2L	1981-87	A41	TO20	200
Pickup	2.3L	1986-87	A40, A41, A43	TO10	200
Pickup	2.3L	1986-87	A41	TO20	200
Rodeo	2.2L	1997	4L30E	GM85	20
Rodeo	2.2L	2000	4L30E	GM87	21
Rodeo	2.2L	2001	4L30E	GM24-6H	21
Rodeo	2.2L	2001-03	4L30E	GM24-6H	21
Rodeo	2.6L	2001	4L30E	GM24-6H	21
Rodeo	3.1L	1996-97	4L30E	GM85	20
Rodeo	3.2L	1993-97	4L30E	GM85	20
Rodeo	3.2L	1998-01	4L30E	GM87	21
Rodeo	3.2L	2000-02	4L30E	GM87CW	21
Rodeo	3.5L	1999-00	4L30E	GM87	21
Trooper	2.2L	1992	4L30E	GM24	20
Trooper	2.8L	1990-91	4L30E	GM24	20
Trooper	2.8L	1988-91	A340	TO38	210
Trooper	3.0L	2000-01	4L30E	GM87CW	21
Trooper	3.2L	1992-94	4L30E	GM85	20
Trooper	3.2L	1997	4L30E	GM87	21
Trooper	3.2L	1999-02	4L30E	GM87CW	21
Trooper	3.5L	1997	4L30E	GM87CW	21
Trooper	3.5L	1998	4L30E	GM87	21
Trooper	3.5L	1995-97	4L30E	GM85	20
Trooper	3.5L	1999-02	4L30E	GM87CW	21
Truck	2.0L	1986	A40	TO10	200
Truck	2.2L	1999	4L60E	GM58CWHD	25
Truck	4.1L	1999	JR403E	DA27	191
Truck (Diesel)	3.9L	1987-98	JF403E	DA21	191
Truck (Turbo Diesel)	3.9L	1987-98	JF403E	DA25	191
Truck NPR, W4	5.7L	1991-97	4L80E	GM82	30
Truck NPR, W4	5.7L	2000-05	4L80E	GM88H	31
JAGUAR					
S-Type	3.0L	2000	5R55N	FM138	56
S-Type	3.0L	2002-07	ZF6HP26	JA95	257
S-Type	3.9L	2000	5R55N	FM138-8	56
S-Type	4.0L	2000	5R55N	FM138-8	56
X Type	2.5L	2002-10	JF506E	DA70	160
X Type	3.0L	2002-10	JF506E	DA80	160
XJ6	4.0L	1984-88	ZF3HP22	JA3	246
XJ6	4.0L	1989-Up	ZF4HP22	JA5	247
XJ8	3.2L	1997	ZF5HP24	JA13905	253
XJ8	4.0L	2001	722.6	MB19B	165
XJ8	4.0L	1997-98	ZF5HP24	JA13905	253
XJ8	4.0L	1997-03	ZF5HP24	JA13906	253
XJR	4.0L	1998-03	722.6	MB19B	165
XK8	4.0L	1997-99	ZF5HP24	JA13906	253
XK8	4.0L	1998	ZF5HP24	JA13905	253
XK8	4.0L	1997	ZF5HP24	BMW12901	251
XK8	4.0L	1997	722.6	MB19B	165
XK8	4.0L	1997-00	ZF5HP24	JA13906	253
XK8	4.2L	2003-08	ZF6HP26	JA95A	257
JEEP					
Cherokee	2.5L	1987-01	A340	J29	211

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JEEP (Cont.)					
Cherokee	2.8L	1986-87	904	J22	122
Cherokee	4.0L	1987-01	A340	J30	211
Cherokee	4.0L	1995-01	AW30-40LE	J30	211
Commander	3.7L	2005-08	722.6	CR7801	99
Commander	4.7L	2006	5-45RFE	CR2	96
Grand Cherokee	3.0L	2007	722.6	MB23	164
Grand Cherokee	3.1L	1999	A500	CR90	105
Grand Cherokee	3.7L	2003	722.6	CR7801	99
Grand Cherokee	3.7L	2005	722.6	MB18B	99
Grand Cherokee	3.7L	2006	722.6	CR7801	99
Grand Cherokee	3.7L	2007	722.6	CR7801	99
Grand Cherokee	3.7L	2005-07	722.6	MB18B	99
Grand Cherokee	4.0L	1994-04	A500	CR90	105
Grand Cherokee	4.7L	1999-05	45RFE	CR2	96
Grand Cherokee	5.2L	1992-96	A518	CR63	107
Grand Cherokee	5.7L	2005	5-45RFE	CR2A	96
Grand Cherokee	5.7L	2005	722.6	MB18B	99
Grand Cherokee	5.9L	1992-96	A518	CR64	107
Grand Wagoneer	5.2L	1993	A727	CR54H	114
Laredo	4.0L	1994-04	A500	CR90	105
Liberty	2.8L	2005-12	45RFE	CR2	96
Liberty	3.7L	2003-05	42RLE	CR0621	95
Liberty	3.7L	2003	42RLE	CR46	95
Liberty	3.7L	2002-06	45RFE	CR2	96
Liberty	3.7L	2005	722.6	MB18B	99
Patriot	3.7L	2007	722.6	CR7801	99
Wrangler (10.2”)	2.4L	2002-12	42RLE	CR87	95
Wrangler (10.75”)	2.4L	2002-12	42RLE	CR0621	95
Wrangler (10.75”)	2.4L	2002-12	42RLE	CR46	95
Wrangler	2.5L	1995	A904	CR47	122
Wrangler	2.5L	1998-02	A904	CR97	122
Wrangler	2.5L	1990-95	A500	CR47	104
Wrangler	2.5L	1996-05	A500	CR97	104
Wrangler	2.7L	2003	42RLE	CR87	95
Wrangler	2.7L	1990	A904	CR47	122
Wrangler	2.7L	1996-98	A904	CR97	122
Wrangler	3.8L	2003-07	42RLE	CR0621	95
Wrangler	4.0L	2003-07	42RLE	CR0621	95
Wrangler	4.0L	1985-92	A904	CR78	121
Wrangler	4.0L	1991-95	A904	CR68	121
Wrangler	4.0L	1992-95	A904	CR69	123
Wrangler	4.0L	1995-99	A904	CR90	123
Wrangler	4.0L	1988-92	A500	CR78	103
Wrangler	4.0L	1992-05	A500	CR69	105
Wrangler	4.0L	1993-95	A500	CR68	103
Wrangler	4.0L	1996-05	A500	CR90	105
KIA					
Optima	2.4L	2001-05	F4A42	KM25	150
Optima	2.7L	2004	F4A42	KM25	150
Rio	1.5L	2001-04	F4A-EL	DA26	149
Rio	1.6L	2001-05	F4A-EL	DA26	149
Sedona	3.5L	2002	F5A51	KM28M	150
Sedona	3.5L	2002-05	F4A51	KM17	172
Sephia	1.8L	1997-01	F4A-EL	DA26	149
Sephia	1.9L	1998	F4A-EL	DA26	149
Sorento	3.5L	2002-09	RE5R05A	DA67	150
Spectra	1.8L	2000-04	F4A-EL	DA26	149
Spectra	2.0L	2004	F4A42	KM23	174
Sportage	2.0L	1995-02	A44DE	TO65	202
LANDROVER					
Discovery	3.9L	1994	ZF4HP22	BMW24	246
Discovery	4.0L	1996-98	ZF4HP22	BMW37	246
Freelander	2.5L	2000-06	JF506E	DA75	160

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LANDROVER (Cont.)					
Range Rover	4.2L	2006-10	ZF6HP26	BMW45	256
Range Rover	4.4L	2002-12	ZF5HP24	BMW13903	252
Range Rover	4.6L	1997	ZF4HP24	BMW42	247
LEXUS					
ES250	2.5L	1990-91	A540E	TO42, TO42B	216
ES300	3.0L	1992-95	A540	TO42, TO42B	216
ES300	3.0L	1994-01	A541E	TO55	217
ES300	3.0L	1991-01	A541E	TO55A	217
ES300	3.0L	1999-01	U140	TO55A	221
ES350	3.5L	2006-12	U660E	TO4701	226
GS300	3.0L	1993-95	A340	TO59	211
GS300	3.0L	1996-97	A350E	TO59	215
GS300	3.0L	1998-02	A650E	TO59	215
GS400	4.0L	1998-00	A650E	TO44A	218
GX470	4.7L	2004	A750E	TO71	219
IS300	3.0L	2000-02	A650E	TO59	215
LS400	4.0L	1990-97	A341E	TO44	213
LS400	4.0L	1998-00	A650E	TO44A	218
LS430	4.3L	2003-06	A761E	TO70	219
LX 450	4.5L	1996-97	A343F	TO44A	214
LX 470	4.5L	1998-02	A343F	TO44A	214
LX 470	4.7L	1998-02	A343F	TO44A	214
LX470	4.7L	2005	A750F	TO71	219
RX300 (AWD)	3.0L	1999-03	U140E	TO55A	221
RX300 (RWD)	3.0L	1999-03	U140E	TO70	221
RX330	3.3L	2004	U151F	TO55L	222
RX350	3.5L	2007	U151E	TO55L	222
SC300	3.0L	1996	A340E	TO59	211
SC400	4.0L	1992-97	A341E	TO44	213
SC400	4.0L	1998-00	A650E	TO44A	218
SE400	4.0L	1992	A341E	TO44	213
LINCOLN					
Aviator	4.6L	2003	5R55S	FM138-8	56
Continental	2.4L	1984-Up	ZF4HP22	BMW13	244
Continental	3.8L	1988-90	AXOD	FM61C	69
Continental	3.8L	1990-91	AXOD-E, AX4S	FM61C	69
Continental	3.8L	1991	AXOD-E, AX4S	FM61M	69
Continental	3.8L	1992-94	AXOD-E, AX4S	FM61R	69
Continental	3.8L	1992-94	AXOD-E, AX4S	FM71	70
Continental	3.8L	1995	AX4N	FM71C	70
Continental	4.6L	1995-02	AX4N	FM72C	70
Continental	4.6L	2002	AX4N	FM71C	70
Continental	5.0L	1980-86	ZF4HP22	BMW34	244
LHS	3.9L	2000	5R55N	FM138-8	56
LS	3.0L	1999-06	5R55N, 5R55S	FM138	56
LS	3.9L	1999-06	5R55N, 5R55S	FM138-8	56
Marauder	4.6L	2003	4R70W	FM70	66
Mark VIII	3.8L	1994-95	4R70W	FM70	66
Mark VIII	4.6L	1996-98	4R70W	FM70	66
Navigator	5.4L	2000	4R100	FM64X	84
Navigator	5.4L	2003-04	4R100	FM64	84
Town Car	4.6L	1994	4R70W	FM69H	67
Town Car	4.6L	1995-03	4R70W	FM69	67
Town Car	4.6L	1998-03	4R70W	FM70	66
Zephyr	3.0L	2006-09	AF21, TF-81SC	FM3901	88
Zephyr	3.0L	2005-06	AF21, TF-81SC	FM3902	88
MAZDA					
3	2.0L	2004-07	FN4A-EL, 4F27E	DA55B	156
3	2.3L	2004-05	FN4A-EL 4F27E	DA64	157
3	2.3L	2004-07	FN4A-EL, 4F27E	DA55B	156
3	2.3L	2010-12	FS5A-EL, FNR5	FM4800	158
323	1.6L	1986-89	G4A-EL	DA15	155
323	1.6L	1988-89	G4A-EL	DA17HD	153

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MAZDA (Cont.)					
323	1.6L	1990	G4A-EL	FM86	154
323	1.6L	1990-94	G4A-EL	DA17F	153
323	1.6L	1990-91	RL4F03A	DA28	185
323	1.8L	1986-89	G4A-EL	DA15	155
5	2.3L	2007	FN4A-EL 4F27E	DA65	157
5	2.3L	2010-12	FS5A-EL, FNR5	FM4800	158
6	2.3L	2003-05	FN4A-EL, 4F27E	DA58	157
6	2.3L	2003-05	FN4A-EL, 4F27E	DA64	157
6	2.3L	2006-12	FS5A-EL, FNR5	FM4800	158
6	3.0L	2002-06	JF506E	DA85	160
6	3.0L	2005-12	TF-81SC	FM3901	88
6	3.0L	2003-05	FN4A-EL, 4F27E	DA58	157
6	3.0L	2005-12	AW6A-EL	FM3901	88
626	1.6L	1986-89	G4A-EL	DA15	155
626	1.8L	1986-89	G4A-EL	DA15	155
626	2.0L	1987-89	G4A-EL	DA15LS	155
626	2.0L	1988-89	G4A-EL	DA17HD	153
626	2.0L	1988-90	G4A-EL	FM65	154
626	2.0L	1993	G4A-EL	FM84	154
626	2.0L	1994-02	CD4E	FM80	80
626	2.2L	1989-92	G4A-EL	FM65	154
626	2.5L	1988	G4A-EL	FM65	154
626	2.5L	1994-02	G4A-EL	FM85	155
626	2.5L	1992-02	G4A-EL	FM84	154
929	3.0L	1982-88	4N71B	DA8	181
929	3.0L	1989-95	4N71B	DA8B	181
929	3.0L	1992-95	R4A-EL	DA36	188
Miata	1.6L	1992	L4N71B	DA37	181
Miata	1.8L	1991-97	4N71B	DA37	181
Millenia	2.3L	1995-01	LJ4A-EL	DA53	186
Millenia	2.5L	1995-02	G4A-EL	FM85	155
Millenia	2.5L	2000	G4A-EL	DA57	155
MPV	2.4L	1987-95	RE4R01A	DA16HD	188
MPV	2.5L	2000-01	G4A-EL	DA57	155
MPV	2.6L	1989	L4N71B	DA8	181
MPV	2.6L	1989-95	4N71B	DA8B	181
MPV	2.6L	2000	G4A-EL	DA57	155
MPV	3.0L	1989-95	4N71B	DA8B	181
MPV	3.0L	2000-02	G4A-EL	DA57	155
MPV	3.0L	2002-06	JF506E	DA85	160
MPV	3.0L	1990-99	RE4R01A	DA31	189
MPV	3.0L	1995-99	RE4R01A	DA16HD	188
MX3	1.8L	1992-95	F4A-EL	DA26	153
MX3	2.0L	1991-93	G4A-EL	DA18	153
MX3	2.3L	2004	FN4A-EL 4F27E	DA64	157
MX6	2.0L	1993	G4A-EL	FM84	154
MX6	2.0L	1994-99	CD4E	FM80	80
MX6	2.2L	1991		FM65	154
MX6	2.2L	1988-98	G4A-EL	DA17HD	153
MX6	2.2L	1988-90	G4A-EL	FM65	154
MX6	2.5L	1993	G4A-EL	FM85	155
MX6	2.5L	1993-97	G4A-EL	FM84	154
MX6	3.0L	1991		FM65	154
MX6	3.0L	1995	G4A-EL	FM85	155
Protege	1.5L	1994-98	F4A-EL	DA26	153
Protege	1.5L	1996	F4A-EL	FM84	154
Protege	1.5L	1998	F4A-EL	DA30	153
Protege	1.6L	1999	FN4A-EL, 4F27E	DA54	156
Protege	1.6L	1999-03	FN4A-EL, 4F27E	DA55	156
Protege	1.6L	1986-89	G4A-EL	DA15	155
Protege	1.6L	1990-94	G4A-EL	DA17F	153
Protege	1.6L	1990-91	RL4F03A	DA28	185
Protege	1.8L	1994	F4A-EL	DA17A	153

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MAZDA (Cont.)					
Protege	1.8L	1997	F4A-EL	DA26	153
Protege	1.8L	2000	FN4A-EL 4F27E	DA54	156
Protege	1.8L	1986-89	G4A-EL	DA15	155
Protege	1.8L	1990-94	G4A-EL	FM86	154
Protege	2.0L	2002-03	FN4A-EL 4F27E	DA55A	156
Protege	2.0L	1987-89	G4A-EL	DA15LS	155
RX7	3.0L	1993-96	R4A-EL	DA36	188
Tribute	3.0L	2000	CD4E	FM89	80
MERCEDES					
190	2.3L	1985		MB39	163
190D	2.5L	1985-89	722.4	MB39	163
190E	2.3L	1983-90	W4A-020	MB41	163
190E	2.6L	1983-90	W4A-020	MB40	163
190E	2.3L	1985-86	722.4	MB39	163
190E	2.3L	1987-93	722.4	MB41	163
190E	2.6L	1987-93	722.4	MB41	163
300	2.5L	1991-93	W4A-020	MB42	163
300 Diesel Turbo		1981-94	722.3	MB32	162
300 SDL Diesel Turbo	3.0L	1987-90	722.3	MB33	162
300 SEL	3.0L	1981-91	722.3	MB38	162
300 Series		1981-91	722.3	MB30	162
300D	2.5L	1993	722.4	MB42	163
300E	2.8L	1993	722.4	MB42	163
300SL	3.0L	1991	722.5	MB33	162
300SL	3.2L	1987-93	722.3	MB33	162
320 Series	3.2L	1997-05	722.6	MB18A	164
400 Series	4.2L	1992-93	722.3	MB37	162
420 SEL	2.6L	1987-90	W3A-040	MB37	162
430E	5.0L	1999	722.6	MB19A	165
500 CLS	5.0L	2006	722.9	MB18A	164
500SL	5.0L	2005	722.6	MB19A	165
560 SEL	5.6L	1986-87	W3A-040	MB37	162
C Class	Code	2006-08	722.9	MB22	165
C220	2.2L	1994-96	722.4	MB42	163
C230	1.8L	2003-04	722.6	MB18	164
C230	1.8L	2006	722.9	MB22	165
C230	2.3L	2000	722.6	MB18	164
C230	2.3L	2006	722.6	MB22	165
CL500	5.0L	1996-98	722.6	MB19	165
CL500	5.0L	2006	722.9	MB18A	164
CLK320	3.2L	2002	722.6	MB18A	164
CLK350	3.5L	2005	722.9	MB22	165
CLK500	5.0L	2005	722.9	MB18A	164
E300	3.0L	1999	722.6	MB18A	164
E320	3.2L	1995-96	722.3	MB33	162
E320	3.2L	1998	722.6	MB18	164
E320	3.2L	2004	722.6	MB18A	164
E350	3.5L	2006	722.9	MB23	164
E350	3.6L	2006	722.6	MB23	164
E420	4.2L	1997	722.6	MB19	165
E500	5.0L	2003	722.6	MB18A	164
ML350	3.5L	2006	722.9	MB23	164
ML400	4.0L	2003	722.6	MB18A	164
ML430	4.3L	1999-01	722.6	MB19A	165
ML430	6.0L	2001	722.6	MB18A	164
S320	3.2L	1994-96	722.3	MB33	162
S420	4.2L	1994-95	722.3	MB37	162
S420	4.2L	1996-99	722.6	MB19	165
S430	5.5L	2005	722.6	MB18A	164
S500	5.0L	1994-95	722.3	MB33	162
S500	5.0L	1994-95	722.3	MB37	162
S500	5.0L	1996-99	722.6	MB19	165
S500	5.0L	2003	722.6	MB18A	164

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Model	Engine	Year	Transmission	Part #	Page #
MERCEDES (Cont.)					
S550	5.5L	2007	722.9	MB21	165
S600 (V12)	5.5L	2001-03	722.6	MB19A	165
SL500	5.0L	2005	722.9	MB18A	164
SL600	6.0L	1994-95	722.3	MB37	162
SLK	Code	2005-Up	722.9	MB23	164
MERCURY					
Capri	1.6L	1990-91	G4A-EL	DA17A	153
Capri	1.6L	1990-94	G4A-EL	DA17F	153
Cougar	2.0L	1998-01	CD4E	FM80	80
Cougar	2.5L	2001-02	CD4E	FM89	80
Cougar	2.5L	1998-02	CD4E	FM75	80
Grand Marquis	4.6L	1994	AODE	FM69H	67
Grand Marquis	4.6L	1995-03	4R70W	FM69	67
Mariner	2.3L	2005	CD4E	FM89L	80
Mariner	3.0L	2005	CD4E	FM89L	80
Marquis	4.6L	1992	AOD	FM55B	65
Marquis	4.6L	1992	AODE	FM69C	67
Milan	2.3L	2005-08	FNR5	FM4800	158
Milan	3.0L	2006-09	AF21, TF-81SC	FM3901	88
Marauder	4.6L	2004	4R70W	FM70	66
Montego	3.0L	2005-07	AF21, TF-81SC	FM3902	88
Montego	3.0L	2006	CFT30	FM3301	81
Monterey	3.9L	2004-07	AX4N, 4F50N	FM90LS	71
Monterey	4.2L	2004-07	AX4N, 4F50N	FM90LS	71
Mountaineer	4.0L	1997	5R55E	FM68HD	55
Mountaineer	4.0L	2001-04	5R55W	FM68HD	57
Mountaineer	4.6L	2001-05	5R55W	FM138-8	56
Mountaineer	5.0L	1997-00	4R70W	FM69H	67
Mystique	2.0L	1994-00	CD4E	FM80	80
Mystique	2.5L	1994-00	CD4E	FM75	80
Sable	3.0L	1986-91	AXOD, AX4S	FM61	69
Sable	3.0L	1992-93	AX4S	FM61R	69
Sable	3.0L	1994-03	AX4N, AX4S	FM71	70
Sable	3.0L	1998-03	AX4N	FM71H	70
Sable	3.0L	1998-03	AX4N	FM71C	70
Sable	3.0L	2004-06	4F50N	FM90	71
Sable	3.8L	1988-90	AXOD	FM61C	69
Sable	3.8L	1990-91	AXOD-E, AX4S	FM61C	69
Sable	3.8L	1992-95	AXOD-E, AX4S	FM61M	69
Sable	3.8L	1994-95	AX4S	FM71C	70
Tracer	1.9L	1993-94	F4A-EL	DA17A	153
Tracer	2.0L	1991-93	G4A-EL	DA18	153
Tracer	2.0L	1991-99	F4A-EL	DA30	153
Villager	3.0L	1992-02	RE4F04A	DA42	187
Villager	3.3L	2001	4F20E	DA42	187
MINI COOPER					
Mini Cooper	1.6L	2005-11	09G TF-60SN	BMW1501	237
MITSUBISHI					
3000 GT	3.0L	1991-99	KM175, F4A33	KM16HD, KM16BHD	171
Cordia	2.0L	1982-88	KM170, 171, 172, 175	KM6	169
Diamante	3.0L	1992-96	KM175, F4A33	KM16HD, KM16BHD	171
Diamante	3.0L	1997-04	F4A51	KM17	172
Diamante	3.5L	1997-04	F4A51	KM17	172
Eclipse	1.8L	1989-94	KM175, 177	KM12HD, KM12BHD	170
Eclipse	1.8L	1989-94	KM176, F4A21	KM11HD	170
Eclipse	2.0L	1998	KM175, F4A33	KM16HD, KM16BHD	171
Eclipse	2.0L	1998	A604	CR73	110
Eclipse	2.0L	1990-91	F4A22	KM12HD, KM12BHD	170
Eclipse (Turbo)	2.0L	1991-98	KM175, 176, F4A33	KM16HD, KM16BHD	171
Eclipse	2.0L	1990	KM175-5	KM10HD	170
Eclipse	2.0L	1991-94	KM175-5	KM12HD, KM12BHD	170
Eclipse	2.0L	1996-99	KM175-5, KM177	KM12HD, KM12BHD	170
Eclipse	2.0L	1991	W4A33-1	KM12HD, KM12BHD	170

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MITSUBISHI (Cont.)					
Eclipse	2.4L	1998	F4A23	KM12HD, KM12BHD	170
Eclipse	2.4L	2000-05	F4A42	KM27	173
Eclipse	3.0L	2000-03	F4A51	KM28	174
Eclipse	3.0L	2000-03	F4A51	KM17	172
Endeavor	3.8L	2004	F4A5A	KM17-6	174
Expo	2.4L	1992-95	W4A32	KM12HD, KM12BHD	170
Fusio Truck Diesel (Turbo)	2.4L	1993	JF403E	DA24	191
Galant	1.5L	1990-91	KM175, 177	KM12HD, KM12BHD	170
Galant	1.8L	2000	F4A42	KM24	173
Galant	1.8L	1995	KM177, F4A33	KM12HD, KM12BHD	170
Galant	2.4L	1985	KM170, 171, 172, 175	KM7HD	170
Galant	2.4L	2004-Up	F4A4B	KM8201	176
Galant	2.4L	1994-98	KM177, F4A33	KM21	172
Galant	2.4L	1999-03	F4A42	KM24	173
Galant	2.4L	1999-03	F4A42	KM27	173
Galant	2.4L	1999-03	F4A42-2	KM27	173
Galant	2.4L	1993-94	KM177, F4A33	KM12HD, KM12BHD	170
Galant	2.4L	1994-98	KM175-5, KM177	KM12HD, KM12BHD	170
Galant	2.5L	1997	F4A23	KM12HD, KM12BHD	170
Galant	3.0L	1988-92	KM175, 177	KM9	169
Galant	3.0L	1998-03	F4A51	KM28	174
Galant	3.0L	1998-03	F4A51	KM17	172
Lancer	2.0L	2002	F4A42	KM30	173
Mirage	1.5L	1991	KM176-5	KM12HD, KM12BHD	170
Mirage	1.5L	1990-92	KM176, F4A21	KM11HD	170
Mirage	1.5L	1997-99	F4A41	KM23	174
Mirage	1.5L	1992-97	F4A33	KM15	169
Mirage	1.8L	1995	KM175-5	KM12HD, KM12BHD	170
Mirage	1.8L	1993-97	KM175-5, KM177	KM23	171
Mirage	1.8L	1997-02	F4A42	KM22	173
Mirage	1.8L	1997-02	F4A42	KM24	173
Mirage	1.8L	1995	F4A22-2	KM12HD, KM12BHD	170
Montero	2.6L	1986	904	CR36	120
Montero	3.0L	1991	A44DL	TO26	203
Montero	3.0L	1991	A44DL	TO47	203
Montero	3.0L	1998	A340	TO26-20	212
Montero	3.0L	1999-03	R4A51, V4A51	KM26	179
Montero	3.5L	1995	A340F	TO47	210
Montero	3.5L	1999	R4A51	KM26	179
Montero	3.5L	2002-03	R5A51	KM26L	179
Montero	3.8L	2003	V5A51	KM26	179
Montero Sport	3.0L	1999-04	R4A51, V4A51	KM17-6	178
Montero Sport	3.5L	1999-04	R4A51, V4A51	KM17-6	178
Montero Sport 24V	3.0L	1999-04	R4A51, V4A51	KM26	179
Montero Sport 24V	3.5L	1999-04	R4A51, V4A51	KM26	179
Outlander	2.4L	2003-05	F4A42	KM25	173
Raider	3.0L	1989	A43DE	TO18A	203
Raider	4.7L	2006-07	45RFE, 5-45RFE	CR2	96
Sigma	3.0L	1988-92	KM175, 177	KM9	169
Sonata	2.4L	1999-02	F4A42	KM25	147
Tredia	2.0L	1982-88	KM170, 171, 172, 175	KM6	169
NISSAN					
200SX	2.0L	1982-91	4N71B	DA8A	181
200SX	2.0L	1982-91	4N71B	DA14	181
240SX	2.4L	1995	RE4R01A	DA16HD	188
300ZX	Some	1982-83	4N71B	DA8	181
300ZX (Non Turbo)	3.0L	1984-91	4N71B	DA14	181
300ZX (Turbo)	3.0L	1984-89	4N71B	DA34	181
300ZX	3.0L	1989-97	RE4R01A	DA16HD	188
300ZX (Turbo)	3.0L	1990-97	RE4R03A	DA41	190
300ZX (Turbo)	3.0L	1992-96	RE4R03A	DA40	188
810	ALL	1984-91	4N71B	DA14	181
Altima	2.4L	2001	RE4F04A	DA42	187

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NISSAN (Cont.)					
Altima	2.4L	1987-95	RE4R01A	DA16HD	188
Altima	2.4L	1993-01	RE4F04A, RE4F04B	DA46	186
Altima	2.4L	1994-98	RE4F04A	DA46	186
Altima	2.5L	2002-06	RE4F04A, RE4F04B	DA42	187
Altima	3.5L	1993-06	RE4F04A	DA42L	187
Altima	3.5L	2002-04	RE4F04A	DA42L	187
Altima	3.5L	2005-07	RE5F22A	TO77	132
Armada	5.6L	2004-06	RE5R05A	DA60	192
Axxess	2.4L	1983-90	RL4F02A	DA13HD	185
Frontier	3.3L	1999-04	RE4R01A	DA31L	189
Frontier	3.3L	1999-04	RE4R01A	DA56	189
Frontier	3.4L	2002-04	RE4R01A	DA31L	189
Frontier	4.0L	2004-12	RE5R05A	DA59	192
Frontier	4.0L	2004-12	RE5R05A	DA61	192
Maxima	3.0L	1984-94	RL4F02A	DA11HD	185
Maxima	3.0L	1992-03	RE4F04A	DA42	187
Maxima	3.5L	1992-05	RE4F04A	DA42L	187
Maxima Se	3.5L	2004-05	AW55-50SN	TO77	132
Murano (Code NC)	3.5L	2005-12	RE0F10A	N33G04	182
Murano (Code ND)	3.5L	2005-12	RE0F10A	N33G05	182
Pathfinder	2.5L	2005	RE5R05A	DA61	192
Pathfinder	3.0L	1988-95	RE4R01A	DA16HD	188
Pathfinder	3.0L	1999	RE4R01A	DA56	189
Pathfinder	3.3L	1990-97	RE4R01A	DA31	189
Pathfinder	3.3L	1988-98	RE4R01A	DA56	189
Pathfinder	3.5L	2000-02	RE4R01A	DA56	189
Pathfinder	3.5L	1993-04	RE4R01A	DA39	190
Pathfinder	4.0L	2005	RE5R05A	DA61	192
Pathfinder	5.6L	2004-06	RE5R05A	DA60	192
Pickup	ALL	1986-87	4N71B	DA8	181
Pickup	2.4L	1992	RL4R01A	DA16HD	188
Pickup	2.4L	2001	RL4R01A	DA31	189
Pickup	3.0L		RE4R01A	DA16HD	188
Pulsar	1.8L	1988-90	RL4F02A	DA13HD	185
Pulsar	1.8L	1988-90	RL4F02A	DA11HD	185
Quest	3.0L	1992-05	RE4F04A	DA42	187
Quest	3.3L	2003	RE4F04A	DA42	187
Quest	3.5L	2004-05	RE4F04A	DA42L	187
Quest	3.5L	2005	RE4F04A	DA42L	187
Sentra	1.6L	1991-99	RL4F03A	DA28	185
Sentra	1.8L	2000-06	RE4F03A	DA48	185
Sentra	2.0L	1993-01	RE4F03A	DA48	185
Sentra	2.5L	2002-06	RE4F04B	DA42	187
Sentra (Code 21B)	2.0L	2005-12	RE0F10A	N33G03	182
Stanza	2.0L	1983-90	RL4F02A	DA13HD	185
Stanza	2.4L	1992	RE4F02A	DA13HD	185
Stanza	3.0L	1990	RE4F02A	DA13HD	185
Titan	5.6L	2004-07	RE5R05A	DA60	192
Xterra	3.3L	2002	RE4R01A	DA31L	189
Xterra	4.0L	2006	RE5R05A	DA61	192
OLDSMOBILE					
88	3.8L	1992-95	4T60E	GM63	34
88	3.8L	1992-95	4T60E	GM71	34
88 (Incl. Regency)	3.8L	1996-97	4T60E	GM63C	34
88 (Incl. Regency)	3.8L	1996-97	4T60E	GM71C	34
88 (Incl. Regency)	3.8L	1997-99	4T65E	GM50	36
88 (Incl. Regency)	3.8L	1998-99	4T65E	GM63CW	35
88 (Incl. Regency)	3.8L	1998-99	4T65E	GM71CW	35
88	5.0L	1988	200-4R	GM15AL	12
98	3.0L	1985	440-T4	GM42	34
98	3.8L	1985-88	440-T4	GM71	34
98	3.8L	1989-90	440-T4	GM63	34
98 (Incl. Regency)	3.8L	1991-95	4T60E	GM71	34

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OLDSMOBILE (Cont.)					
98 (Incl. Regency)	3.8L	1991-95	4T60E	GM63	34
98 (Incl. Regency)	3.8L	1994-96	4T60E	GM71C	34
98 (Incl. Regency)	3.8L	1994-96	4T60E	GM63C	34
98	4.3L	1985	440-T4	GM63	34
Achieva	2.3L	1992	125C	GM73	9
Achieva	2.3L	1994	4T60E	GM73	34
Achieva	2.3L	1995	125C	GM73	9
Achieva	2.3L	1992-93	125C	GM73	9
Achieva	2.3L	1992-95	125C	GM73	9
Achieva	2.3L	1994-95	4T60E	GM73CW	35
Achieva	2.4L	1996-98	4T60E	GM73C	35
Achieva	2.4L	1997-98	4T40E	GM73CW	32
Achieva	3.1L	1994-98	4T60E	GM71	34
Achieva	3.1L	1997-98	4T60E	GM71C	34
Achieva	3.3L	1992-93	125C	GM63	9
Achieva	3.3L	1992-93	125C	GM71	9
Achieva	3.3L	1994	125C	GM73	9
Alero	2.2L	2002-04	4T40E	GM73CW	32
Alero	2.4L	1999-02	4T40E	GM73CW	32
Alero	3.4L	1999-04	4T40E	GM71C	34
Alero	3.4L	1999-04	4T40E	GM71CW	32
Aurora	3.5L	2001-02	4T65E	GM50	36
Aurora	3.5L	2001-02	4T65E	GM52	36
Aurora	3.8L	1996	4T60E	GM71C	34
Aurora	4.0L	1994-04	4T80E	GM84	37
Aurora	4.0L	1994-04	4T80E	GM86A	37
Bravada	4.2L	2002-04	4L60E	GM55	29
Bravada	4.3L	1990-94	700-R4	GM18A	27
Bravada	4.3L	1992-94	700-R4	GM18AH	27
Bravada	4.3L	1993-94	4L60E	GM18AH	27
Bravada	4.3L	1994-95	4L60E	GM31	28
Bravada	4.3L	1994-97	4L60E	GM35	28
Bravada	4.3L	1998-02	4L60E	GM35CW	28
Bravada	5.3L	2003-04	4L60E	GM92	29
Calais	2.3L	1987-91	125C	GM73	9
Calais	2.5L	1985-91	125C	GM73	9
Calais	3.0L	1985-87	125C	GM42	9
Calais	3.3L	1989-91	125C	GM71	9
Custom Cruiser	5.0L	1980-90	200-4R	GM15AL	12
Custom Cruiser	5.0L	1991-92	700-R4	GM18AL	27
Custom Cruiser	5.7L	1985	350C	GM20F	16
Custom Cruiser	5.7L	1991-92	700-R4	GM18AL	27
Cutlass	2.2L	1993-94	125C	GM42	9
Cutlass	2.2L	1993-96	125C	GM73	9
Cutlass	2.4L	1996-98	4T60E	GM73C	35
Cutlass	2.4L	1998-99	4T60E	GM73CW	35
Cutlass	2.5L	1982-92	125C	GM73	9
Cutlass	2.5L	1990	440-T4	GM73	34
Cutlass	2.8L	1982-89	125C	GM42	9
Cutlass	2.8L	1984-92	440-T4	GM42	34
Cutlass	3.0L	1982-88	125C	GM42	9
Cutlass	3.0L	1984-85	440-T4	GM42	34
Cutlass	3.1L	1991-93	125C	GM42	9
Cutlass	3.1L	1989-92	440-T4	GM42	34
Cutlass	3.1L	1997-99	4T40E	GM71C	34
Cutlass	3.1L	1991-97	4T60E	GM42	34
Cutlass	3.1L	1994-98	4T60E	GM71	34
Cutlass	3.1L	1997-99	4T60E	GM71C	34
Cutlass	3.3L	1989	125C	GM42	9
Cutlass	3.3L	1989-93	125C	GM63	9
Cutlass	3.3L	1990-96	125C	GM71	9
Cutlass	3.4L	1991-95	4T60E	GM42	34
Cutlass	3.4L	1996	4T60E	GM42C	35

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OLDSMOBILE (Cont.)					
Cutlass	3.4L	1996	4T60E	GM42CW	35
Cutlass	3.8L	1984-85	125C	GM71	9
Cutlass	3.8L	1980-87	200-4R	GM15	12
Cutlass	3.8L	1980-85	200C	GM15AH	13
Cutlass	3.8L	1984-88	440-T4	GM71	34
Cutlass	3.8L	1996-97	4T60E	GM71C	34
Cutlass	4.3L	1982-85	125C	GM63	9
Cutlass	5.0L	1982-88	200-4R	GM15AL	12
Cutlass	5.0L	1980-87	200C	GM15AL	12
Cutlass	5.7L	1982-85	200-4R	GM15AL	12
Cutlass	5.7L	1980-85	200C	GM15AL	12
Delta 88	3.0L	1986	440-T4	GM42	34
Delta 88	3.8L	1982-85	200-4R	GM15	12
Delta 88	3.8L	1980-85	200C	GM15	12
Delta 88	3.8L	1986-95	440-T4	GM71	34
Delta 88	3.8L	1986-95	440-T4	GM63	34
Delta 88	3.8L	1995-99	4T60E	GM71C	34
Delta 88	3.8L	1995-99	4T60E	GM63C	34
Delta 88	3.8L	1997-99	4T65E	GM50	36
Delta 88	3.8L	1999	4T65E	GM71CW	35
Delta 88	5.0L	1981-85	200-4R	GM15AL	12
Delta 88	5.0L	1980-85	200C	GM15AL	12
Delta 88	5.7L	1982-85	200-4R	GM19	13
Delta 88	5.7L	1980-85	200C	GM15AL	12
Delta 88	5.7L	1980-85	200C	GM19	13
Firenza	1.8L	1982-86	125C	GM73	9
Firenza	2.0L	1983-88	125C	GM73	9
Firenza	2.8L	1985-87	125C	GM42	9
Intrigue	3.5L	1999-02	4T65E	GM50	36
Intrigue	3.5L	1999-02	4T65E	GM52	36
Intrigue	3.8L	1998-99	4T65E	GM50	36
Intrigue	3.8L	1998-99	4T65E	GM71C	34
Intrigue	3.8L	1999	4T65E	GM71CW	35
LSS	3.8L	1996-97	4T60E	GM63C	34
LSS	3.8L	1996-99	4T60E	GM71C	34
LSS	3.8L	1997-99	4T65E	GM50	36
Regency	3.8L	1997	4T60E	GM63C	34
Regency	3.8L	1997	4T60E	GM71C	34
Regency	3.8L	1998	4T65E	GM50	36
Regency	3.8L	1998	4T65E	GM71C	34
Silhouette	3.1L	1990-94	125C	GM42	9
Silhouette	3.4L	1994-02	4T60E	GM71C	34
Silhouette	3.4L	1997-02	4T65E	GM71CW	35
Silhouette	3.8L	1993-94	125C	GM42	9
Silhouette	3.8L	1991-93	440-T4	GM71	34
Silhouette	3.8L	1991-93	4T60E	GM71	34
Toronado	3.8L	1986-90	440-T4	GM71	34
Toronado	3.8L	1991-92	4T60E	GM71	34
Toronado	5.0L	1982-85	325-4L	GM15AL	12
Toronado	5.7L	1982-85	325-4L	GM15AL	12
PLYMOUTH					
Conquest	ALL	1982-86	4N71B	DA8	181
Laser	1.8L	1989-90	KM176, F4A21	KM10HD	170
Laser	1.8L	1990-94	KM175, 177	KM12HD, KM12BHD	170
Laser (Turbo)	2.0L	1991-94	F4A33	KM14, KM14B	171
Neon	2.0L	2001	A604	CR42	110
Neon	2.0L	1995-01	A413, A470, A670	CR42	101
Voyager	2.4L	2002	A604	CR73	110
Voyager	3.0L	1997	A670	CR88	101
Voyager	3.3L	1992	A604	CR44	110
PONTIAC					
Aztek	3.4L	2001-02	4T65E	GM71C	34
Aztek	3.4L	2001-02	4T65E	GM71CW	35

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Bonneville	3.8L	1989-91	440-T4	GM63	34
Bonneville	3.8L	1989-91	440-T4	GM71	34
Bonneville	3.8L	1992-95	4T60E	GM63	34
Bonneville	3.8L	1992-95	4T60E	GM71	34
Bonneville	3.8L	1994-96	4T60E	GM71C	34
Bonneville	3.8L	1996-97	4T60E	GM63C	34
Bonneville	3.8L	1996-99	4T60E	GM71C	34
Bonneville	3.8L	1997	4T60E	GM63CW	35
Bonneville	3.8L	1997-99	4T60E	GM71CW	35
Bonneville	3.8L	1997-05	4T65E	GM53	36
Bonneville	3.8L	1997-05	4T65E	GM50	36
Bonneville	3.8L	2000-05	4T65E	GM53	36
Firebird	3.1L	1992	700-R4	GM58CHD	24
Firebird	3.4L	1993-94	700-R4	GM58CHD	24
Firebird	3.4L	1997	4L60E	GM58CWHD	25
Firebird	3.8L	1995-98	4L60E	GM59CHD	24
Firebird	3.8L	1998-02	4L60E	GM58CWHD	25
Firebird	3.8L	1998-02	4L60E	GM59CWHD	24
Firebird	5.0L	1988-92	700-R4	GM18AL	27
Firebird	5.0L	1989-92	700-R4	GM18A	27
Firebird	5.7L	1998-02	4L60E	GM92	29
Firebird	5.7L	1993-97	700-R4	GM33	28
G5	2.2L	2007	4T40E	GM73CW	32
G6	3.4L	2005-07	4T40E	GM71CW	32
G6	3.5L	2005-07	4T40E	GM71CW	32
G6	3.6L	2007-09	6T70, 6T75	GM1241	42
Grand Am	2.2L	2002	4T40E	GM73CW	32
Grand Am	2.3L	1990-95	125C	GM73	9
Grand Am	2.3L	1994-95	4T60E	GM73CW	35
Grand Am	2.4L	1996-98	4T60E	GM73C	35
Grand Am	2.4L	1999-02	4T40E	GM73CW	32
Grand Am	2.5L	1985-91	125C	GM73	9
Grand Am	3.1L	1994-98	4T60E	GM71	34
Grand Am	3.3L	1992-93	125C	GM71	9
Grand Am	3.4L	1999-04	4T40E, 4T45E	GM71C	34
Grand Am	3.4L	1999-04	4T40E, 4T45E	GM71CW	32
Grand Prix	2.3L	1990-91	125C	GM73	9
Grand Prix	3.1L	1992-93	125C	GM42	9
Grand Prix	3.1L	1990-93	440-T4	GM42	34
Grand Prix	3.1L	1994-97	4T60E	GM42	34
Grand Prix	3.1L	1998-02	4T60E	GM42C	35
Grand Prix	3.1L	1999-02	4T65E	GM71C	34
Grand Prix	3.1L	1999-02	4T65E	GM71CW	35
Grand Prix	3.4L	1991-95	4T60E	GM42	34
Grand Prix	3.4L	1996	4T60E	GM42C	35
Grand Prix	3.4L	1996	4T60E	GM42CW	35
Grand Prix	3.8L	1996-97	4T60E	GM71C	34
Grand Prix	3.8L	1998-99	4T60E	GM42C	35
Grand Prix	3.8L	1997-06	4T65E	GM51	36
Grand Prix	3.8L	1997-06	4T65E	GM53	36
Grand Prix	3.8L	1997-06	4T65E	GM71C	34
Grand Prix	3.8L	1999-06	4T65E	GM71CW	35
Grand Prix	5.3L	2005-08	4T65E	GM53	36
GTO	5.7L	2004-Up	4L65E	GM92	29
GTO	6.0L	2004-Up	4L65E	GM92	29
Montana	3.4L	1998-01	4T60E	GM71C	34
Montana	3.4L	1999-04	4T65E	GM71CW	35
Montana	3.5L	2005-06	4T65E	GM53	36
Montana	3.9L	2005-07	4T65E	GM53	36
Sunbird	3.1L	1991-94	125C	GM42	9
Sunfire	2.0L	1995-97	125C	GM73	9
Sunfire	2.0L	1998-02	125C	GM73CW	9
Sunfire	2.2L	2000	125C	GM73C	9

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PONTIAC (Cont.)					
Sunfire	2.2L	1995-05	4T40E	GM73CW	32
Sunfire	2.3L	1995	125C	GM73	9
Sunfire	2.4L	1995-05	4T40E	GM73CW	32
Sunfire	2.4L	1995-97	125C	GM73	9
Sunfire	2.4L	1998-02	125C	GM73CW	9
Sunfire	3.1L	1998	4T40E	GM63CW	32
Torrent	3.4L	2006	AW55-50SN	TO79L	132
Torrent	3.6L	2007-09	6T70, 6T75	GM1241	42
Trans Sport	3.1L	1990-95	125C	GM42	9
Trans Sport	3.4L	1994-98	4T60E	GM71C	34
Trans Sport	3.8L	1992-93	4T60E	GM71	34
Trans Sport	3.8L	1994-98	4T60E	GM71C	34
Vibe	1.6L	2003	A246E	TO33	208
Vibe	1.8L	2003	A246E	TO33	208
Vibe	1.8L	2003-04	U340, U341	TO33	224
Vibe	1.8L	2005-06	A246E	TO22	208
Vibe	1.8L	2005-06	A246E	TO33	208
Vibe	1.8L	2009	U340E	TO33	224
PORSCHE					
Boxster	2.5L	2000-08	ZF5HP19	PCH54	250
Boxster	2.7L	2000-08	ZF5HP19	PCH54A	250
Cayenne	3.6L	2003-10	TR-60SN, 09D	PCH59	236
SAAB					
9.3	2.0L	2003-04	AW50-51SN	TO78	132
9.5	2.3L	1999-01	AW50-42LE	VO31	130
900	2.3L	1994-98	ZF4HP18	SA8	240
9000	2.0L	1987-89	ZF4HP18	BMW16	240
9000	2.3L	1987-90	ZF4HP18	SA7	240
9000	2.3L	1990-92	ZF4HP18	BMW16	240
9000 (Turbo)	2.0L	1985-90	ZF4HP18	SA4	240
900S	2.0L	1998	AW50-40LE	TO69	130
900S	2.3L	1996-97	AW50-42LE	TO69	130
900S	2.5L	2005	AW50-42LE	TO67	130
SATURN					
Aura (Hybrid)	2.4L	2006-09	4T45E	GM42CW	32
Aura	2.4L	2008-12	6T40, 6T45	GM1441	41
Aura XR	3.6L	2007-09	6T70, 6T75	GM1241	42
Ion	2.2L	2003-04	AW55-50	TO79	47
Ion	2.2L	2003-04	AW55-50	TO79L	47
Ion	2.2L	2003-04	VT25-E	GM96	47
Ion	2.2L	2004-07	4T40E	GM73CW	32
Ion Quad Coupe	2.2L	2003-04	VT25-E	GM96	47
Ion Sedan	3.0L	2002	AW55-50SN	TO79L	47
L-Series	2.2L	2003	4T40E	GM73CW	32
L-Series	3.0L	2000-05	4T45E	GM94	32
Outlook	3.6L	2007-09	6T70, 6T75	GM1241	42
SL	2.2L	2001	4T40E	GM73CW	32
S-Series	1.9L	1995-03	TAAT	GM80	47
Vue	2.2L	2002-05	VT25-E	GM96	47
Vue	3.0L	2004-06	AW55-50SN	TO79L	47
Vue	3.5L	2004-07	MDRA	HO82	47
Vue	3.5L	2007-11	6T70, 6T75	GM1242	42
Vue	3.6L	2007-11	6T70, 6T75	GM1241	42
SUBARU					
1800	1.8L	1983-86	M41	SU8	194
Baja	2.5L	2003-06	R4AX-EL	SU16	197
Forester	2.5L	1998-06	R4AX-EL	SU14HS	196
Forester	2.5L	1998-06	R4AX-EL	SU16	197
Forester	2.5L	1998-06	R4AX-EL	SU17	197
Forester	2.8L	1998-06	R4AX-EL	SU14HS	196
Forester	2.8L	1998-06	R4AX-EL	SU16	197
Forester	2.8L	1998-06	R4AX-EL	SU17	197
GL (4WD)	1.8L	1986	M41	SU9	194

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SUBARU (Cont.)					
GL Wagon Turbo	1.8L	1987	M41	SU10	194
GL Turbo	1.8L	1985-86	M41	SU7	194
Legacy	2.0L	2009-12	CVT Lineartronic	SU3301	199
Legacy	2.2L	1990-92	R4AX-EL	SU11	196
Legacy (Incl Turbo)	2.2L	1991-06	R4AX-EL	SU13	196
Legacy	2.2L	1998	R4AX-EL	SU15	197
Legacy	2.2L	1999	R4AX-EL	SU18	197
Legacy	2.2L	1983-85	M41	SU5	195
Legacy	2.5L	1999	4EAT	SU17	197
Legacy	2.5L	2000	R4AX-EL	SU16	197
Legacy	2.5L	2005-12	5EAT	SU6301	198
Legacy	2.5L	2009-12	CVT Lineartronic	SU3301	199
Outback	2.5L	1997-07	4EAT	SU14HS	196
Outback	2.5L	1997-04	4EAT	SU17	197
Outback	2.5L	1997-04	R4AX-EL	SU15	197
Outback	2.5L	1997-04	4EAT	SU16	197
SVX	3.3L	1992-97	R4AX-EL	SU14	196
Tribeca	3.6L	2006-12	5EAT	SU6302	198
SUZUKI					
Aerio	2.0L	2002-03	AW60-40LE	TO62	133
Esteem	1.8L	1995-02	AW60-40LE	TO62	133
Forenza	2.0L	2004-08	ZF4HP16	ZF1890	242
Grand Vitara	2.0L	1999-03	03-72LE (A44DE)	TO39	202
Sidekick	1.6L	1992-98	03-72LE (A44DE)	TO23	203
Sidekick	1.8L	1992-98	03-72LE (A44DE)	TO23	203
Swift	1.3L	1989-01	MX17	TO29	207
Swift	1.3L	1989-91	MX17	TO30	207
Vitara	2.0L	2000-02	03-72LE (A44DE)	TO37	202
Vitara	2.5L	2000-02	03-72LE (A44DE)	TO39	202
X-90	1.6L	1996-98	03-72LE (A44DE)	TO23	203
XL7	3.6L	2007-08	AW55-50SN	TO79L	132
XL7	2.7L	1996-98	03-72LE (A44DE)	TO39	202
TOYOTA					
4Runner	2.4L	1984-95	A340	TO40B	211
4Runner	2.4L	1984-95	A340	TO18B	210
4Runner	2.7L	1997-99		TO59	211
4Runner	2.7L	1996-00	A340	TO40B	211
4Runner	2.7L	1996-00	A340	TO18B	210
4Runner	3.0L	1995	A340	TO18C	210
4Runner	3.0L	1988-97	A340	TO59	211
4Runner	3.0L	1988-97	A340	TO18B	210
4Runner	3.0L	1988-00	A340	TO40B	211
4Runner	3.4L	1989-02	A340	TO59	211
4Runner	4.0L	2003-12	A750E	TO14701	219
4Runner	4.7L	2004	A750E	TO70	219
4Runner	4.7L	2004-05	A750E	TO71	219
Avalon	3.0L	1997-02	A541E	TO55A	217
Avalon	3.5L	2007	U151E	TO55A	222
Avalon	3.5L	2005-07	U151E	TO55L	222
Camry	1.8L	1997	A245E	TO19	208
Camry	2.0L	1989	A140E	TO42, TO42B	209
Camry	2.0L	1990-92	A540H	TO53LS	216
Camry	2.0L	1990-92	A140	TO18	209
Camry	2.2L	1992	A140	TO18	209
Camry	2.2L	1992-00	A140	TO42, TO42B	209
Camry	2.4L	2006	A246E	TO22	208
Camry	2.4L	2002-05	U241E	TO42, TO42B	220
Camry	2.4L	2002-05	U241E	TO75	220
Camry	2.4L	2005-07	U250E	TO42, TO42B	222
Camry	2.5L	1989	A140E	TO51	209
Camry	2.5L	1990	A540	TO51	217
Camry	3.0L	1988-01	A540	TO55	217
Camry	3.0L	1990	A140	TO42, TO42B	209

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TOYOTA (Cont.)					
Camry	3.0L	1990-92	A540	TO51	217
Camry	3.0L	1993	A540	TO42, TO42B	216
Camry	3.0L	2001	A541E	TO55A	217
Camry	3.0L	2002-03	U140E	TO55	221
Camry	3.0L	2002-06	U151E	TO55L	222
Camry	3.5L	2006-12	U660E	TO4701	226
Celica	1.6L	1990-91	A240	TO33	208
Celica GTS	1.8L	2000-04	U240E	TO73	221
Celica	1.8L	2000-01	U240E	TO33L	221
Celica	1.8L	2000-03	U341E	TO73	225
Celica	1.8L	2002	U341E	TO78	225
Celica	2.0L	1986	A140L	TO18	209
Celica	2.2L	1990	A240	TO33	208
Celica	2.2L	1994-99	A140E	TO42, TO42B	209
Corolla	1.6L	1987-88	A130, A131	TO19	208
Corolla	1.6L	1990	A130, A131	TO33	208
Corolla	1.6L	1991-98	A130, A131	TO33	208
Corolla	1.6L	1991-98	A130, A131	TO19	208
Corolla	1.8L	1990	A40	TO10	200
Corolla	1.8L	1996-07	A245E	TO22	208
Corolla	1.8L	2001-07	A245E	TO33	208
Corolla	1.8L	2006-07	A245E	TO58	208
Corolla	1.8L	1999	U240E	TO33L	221
Corolla	1.8L	2005	U340E	TO22	224
Corolla	1.9L	1997	A245E	TO33	208
Cressida	2.8L	1987-88	A340	TO40B	211
Cressida	3.0L	1989-92	A340	TO40B	211
Cressida	3.0L	1990	A340	TO18B	210
Cressida	3.0L	1990	A340	TO18C	210
Echo	1.5L	2000-05	U340E	TO22	224
FJ Cruiser	4.0L	2007-12	A750E	TO14701	219
Highlander	2.4L	2001-07	U140	TO42, TO42B	220
Highlander	3.0L	2001-07	U140	TO55A	221
Highlander	3.0L	2001-07	U140E	TO55L	221
Highlander	3.3L	2004-08	U150E	TO55L	222
Land Cruiser	3.0L	2005	A750E	TO14701	219
Land Cruiser	4.0L	2007	A750E	TO14701	219
Land Cruiser	4.2L	1999	AW450-43LE	TO63	135
Land Cruiser	4.7L	1996-02	A343F	TO44A	214
Land Cruiser	4.7L	2000-12	A750F	TO71	219
Matrix	1.8L	2003-08	A246E	TO22	208
MR2	1.6L	1992	A241E	TO58	208
MR2	2.2L	1989-91	A241E	TO42, TO42B	209
Paseo	1.5L	1995	A244E	VO29	212
Pickup	2.2L	1983-93	A40D	TO15	201
Pickup	2.4L	1978-95	A40D Series	TO12	201
Pickup	2.4L	1985-93	A340	TO40B	211
Pickup	2.4L	1994-95	A340	TO59	211
Pickup	2.4L	1985-95	A340	TO18B	210
Pickup	2.6L	1988	AW372	TO25	201
Pickup	3.0L	1988-95	A43D	TO12	201
Pickup	3.0L	1988-95	A340	TO40B	211
Pickup	3.0L	1988-95	A340	TO18B	210
Previa	2.4L	1994-97	A340	TO45	202
Previa (SC)	2.4L	1993-97	A340	TO59	211
RAV4	2.0L	1996-97	A540E	TO42, TO42B	216
RAV4	2.0L	2000-07	U140, U240	TO75	220
RAV4	2.4L	2002-07	U140	TO75	220
Sequoia	4.7L	2001-06	A340	TO44A	214
Sequoia	4.7L	2005-08	A750E	TO71	219
Sienna	3.0L	1998-03	A541E	TO55	217
Sienna	3.0L	2001	A541E	TO55A	217
Sienna	3.0L	2001	A541E	TO55L	217

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Sienna	3.3L	2004-07	U151E	TO55L	222
Sienna	3.5L	2004-07	U151E	TO55L	222
Solara	2.4L	2002-05	U241E	TO42, TO42B	216
Supra	3.0L	1989	A341E	TO40B	211
Supra	3.0L	1995	A341E	TO59	211
Supra	3.0L	1987-98	A340	TO40B	211
T100	3.4L	1996	A340	TO59	211
T100 (Lock-Up)	3.4L	1995-98	A340	TO40B	211
T100 (Non Lock-Up)	3.4L	1995-98	A340	TO60	211
T100	2.7L	1994-98	A340	TO40B	211
T100	3.0L	1993-94	A340	TO40B	211
T100	3.0L	1993-94	A340	TO18B	210
Tacoma	2.0L	2006	A340	TO59	211
Tacoma	2.4L	1991	A43D	TO18A	203
Tacoma	2.4L	1995-01	A43D	TO60	201
Tacoma	2.4L	2000	A43D	TO12	201
Tacoma	2.4L	1995-98	A340	TO40B	211
Tacoma	2.4L	1995-98	A340	TO18B	210
Tacoma	2.4L	1997-00	A340	TO59	211
Tacoma	2.7L	1995-98	A43D	TO12	201
Tacoma	2.7L	1995-99	A340	TO40B	211
Tacoma	2.7L	1995-99	A340	TO18B	210
Tacoma	2.7L	1997-05	A340	TO59	211
Tacoma	3.4L	1995-96	A43D	TO12	201
Tacoma	3.4L	1995-96	A340	TO40B	211
Tacoma	3.4L	1995-96	A340	TO18B	210
Tacoma	3.4L	1995-02	A340	TO59	211
Tacoma	3.4L	1997-01	A340	TO59	211
Tacoma	4.0L	2005-12	A750E	TO14701	219
Tercel	1.5L	1989-96	A130	TO33	208
Tundra	3.4L	2000-04	A340E	TO59	211
Tundra	3.4L	2000-04	A340	TO44A	214
Tundra	4.0L	2005-12	A750E	TO14701	219
Tundra	4.7L	1999-04	A340	TO44A	214
Tundra	4.7L	2005-12	A750E	TO71	219
Tundra	5.7L	2007-12	A750E	TO15701	219
Yaris	1.5L	2008	U340E	TO71	225
VOLKSWAGEN					
Beetle (Bearing In Center)	1.8L	1998-03	01M	VW21	238
Beetle (Hollow Center)	1.8L	1998-03	01M	VW20	238
Beetle	1.8L	2004-05	09G	VW1503	237
Beetle (Bearing In Center)	1.9L	1998-03	01M	VW21	238
Beetle (Hollow Center)	1.9L	1998-03	01M	VW20	238
Beetle	1.9L	2004-05	09G	VW1503	237
Beetle (Bearing In Center)	2.0L	1998-03	01M	VW21	238
Beetle (Hollow Center)	2.0L	1998-03	01M	VW20	238
Beetle	2.0L	2003-10	09G	VW1503	237
Cabrio	2.0L	1995-02	01M	VW21	238
Eurovan	2.5L	1993-95	098	VW17	238
Eurovan (Bearing In Center)	2.8L	1997-03	01N, 01P	VW21	238
Eurovan (Hollow Center)	2.8L	1997-03	01N, 01P	VW20	238
Golf	1.9L	2000-07	09A (JF506E)	VW9802	235
Golf (2 Sets Of Splines)	2.0L	1993-96	096	VW20	238
Golf (3 Sets Of Splines)	2.0L	1993-96	096	VW17	238
Jetta	1.8L	2002-08	09A (JF506E)	VW9800	235
Jetta	1.9L	1986	010, 087, 089, 090	VW13	239
Jetta	1.9L	2002-08	09A (JF506E)	VW9802	235
Jetta (Bearing In Center)	1.9L	2002-05	01M	VW21	238
Jetta (Hollow Center)	1.9L	2002-05	01M	VW20	238
Jetta (Bearing In Center)	2.0L	1993-99	01M	VW21	238
Jetta (Hollow Center)	2.0L	1993-99	01M	VW20	238
Jetta	2.5L	2005-11	09G TF-60SN	VW1502	237
Jetta (Bearing In Center)	2.8L	1999-06	01M	VW21	238

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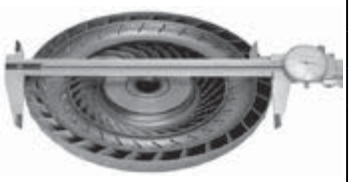
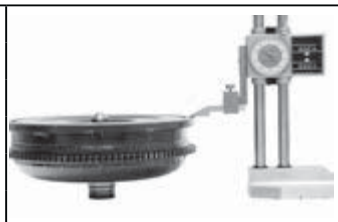
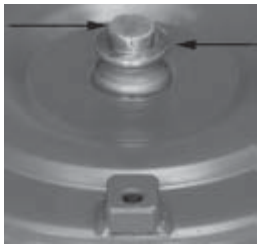
Jetta (Hollow Center)	2.8L	1999-06	01M	VW20	238
Jetta	2.8L	2002-08	09A (JF506E)	VW9801	235
Passat	1.8L	1998-06	ZF5HP19	AU11	250
Passat	1.8L	2004-06	ZF5HP19	AU26	250
Passat	2.0L	1990-94	095, 096	VW18	238
Passat	2.0L	2004-06	ZF5HP19	AU11	250
Passat	2.0L	2004-06	ZF5HP19	AU26	250
Passat	2.8L	1994-97	095, 096	VW17	238
Passat	2.8L	1997-00	ZF5HP19	AU11	250
Passat	2.8L	1998-05	ZF5HP19	AU13	250
Passat	2.8L	1998-05	ZF5HP19	AU24	249
Passat	2.8L	1998-01	ZF5HP19FL	AU23	249
Passat	2.8L	1998-05	ZF5HP19FL	AU22	249
Passat	4.0L	2001-Up	ZF5HP19FL	AU24	249
Rabbit	2.5L	2006-09	09G	VW1502	237
VOLVO					
240	2.3L	1989-91	AW70	VO19	204
570 (Turbo)	2.4L	1998	AW50-42LE	VO31	130
740	2.3L	1987	ZF4HP22	BMW22	244
740	2.3L	1991	AW70L	VO20	205
740	2.3L	1984-90	ZF4HP22	VO13	245
740	2.3L	1988-92	ZF4HP22	VO26	246
740GLE	2.3L	1984-90	ZF4HP22	VO10	244
760	2.8L	1984-85	AW71	VO23	204
760GLE (Turbo)	2.3L	1985-90	ZF4HP22	VO15	245
760D	2.4L	1984-90	ZF4HP22	VO13	245
850	2.3L	1993-97	AW50-40LE	VO28	130
850	2.4L	1993-97	AW50-40LE	VO28	130
940 (Turbo)	2.3L	1993	AW71	VO19	204
960	2.9L	1991-97	A340	VO29	212
960	2.9L	1991-97	AW30-40LE	VO24	213
960	2.9L	1991-97	AW70, AW71	VO25	205
960	2.9L	1991-97	AW71	VO24	205
960	2.9L	1993-97	AW30-40LE	TO26	212
960 Wagon	2.9L	1991-97	A340	VO29	212
B70X	ALL	2001	AW55-50SN	TO68	132
C70	2.4L	2002-03	AW55-50SN	TO68	132
Cross Country	2.4L	2002-03	AW55-50SN	TO68	132
S40	2.4L	2001-05	AW55-50SN	TO68	132
S60	2.4L	2001-05	AW55-50SN	TO68	132
S60	2.5L	2001-05	AW55-50SN	TO68	132
S70	2.3L	1998-00	AW50-42LE	VO31	130
S80	2.5L	1999-06	4T65E	VO32	36
S80	2.5L	2004-06	AW55-50SN	TO68	132
S80	2.9L	1999-06	4T65E	VO30	36
S90	2.9L	1997-98	A341E	VO25	213
V70XL	2.5L	2001	AW55-50SN	TO68	132
XC90	2.5L	2003-05	4T65E	VO32	36
XC90	2.5L	2004-06	AW55-50SN	TO68	132
XC90	2.9L	2003-05	4T65E	VO32	36
XC90	4.4L	2005-11	TF-80SC	VO3901	88

HOW TO MEASURE

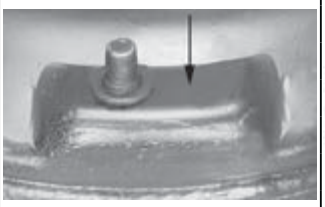
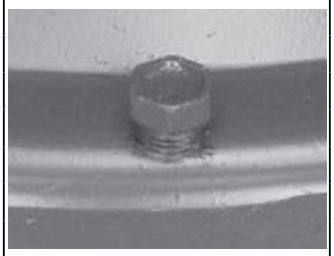
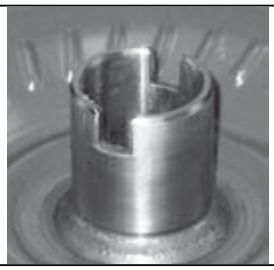
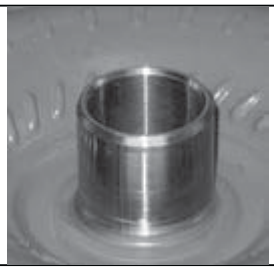
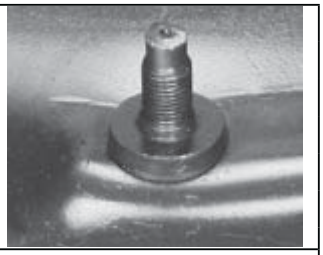
			
Bolt Circle Center of Pad to Center of Pad	Bolt Radius (x 2 = Bolt Circle) Center of Pad to Center of Pilot	Diameter - Overall Outside of Conv. (Not Ring Gear)	Diameter - Turbine Outside of Turbine (Internal)
Hub Diameter Outside of Hub	Hub Height Top of Hub to Base	Hub Flange Outside of Flanged Area	Mounting Ring - Inner Inside of Ring to Inside of Ring
			
Mounting Ring - Outer Outside of Ring to Outside of Ring	Overall Height w/ Pads Top of Pad to Top of Hub	Overall Height w/ Studs Top of Stud Base to Top of Hub	Overall Height w/ Ring Top of Mounting Ring to Top of Hub
			
Pad Height Outside of Pad to Converter	Pilot Diameter Outside of Pilot	Pilot Height Top of Pilot to Top of Hub	Pilot Stepped Measure Both Steps
Ring Gear (Narrow) Converter to Outside of Gear	Ring Gear (Wide) Converter to Outside of Gear	Ring Gear Thickness Thickness of Gear	Ring Gear Height Top of Gear to Top of Hub

GLOSSARY

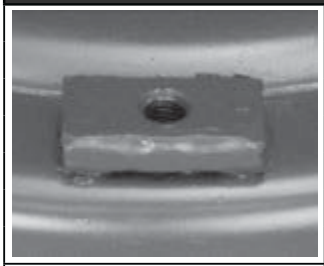
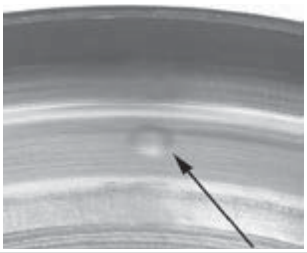
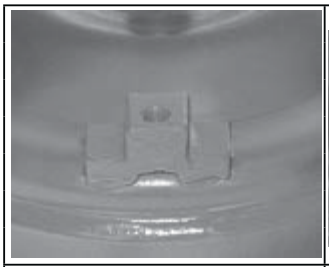
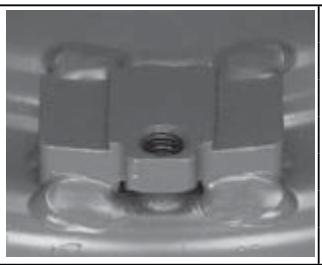
GLOSSARY	
Bolt Circle Diameter	The measurement between two mounting points (bolt holes or studs) that are 180 degrees opposed. NOTE: Always measure from “center to center”.
Bolt Pattern - 90°	Typically refers to 4 pad Chrysler converters with pads equally spaced in relation to one another. The distance (center to center) is the same when measuring adjacent pads
Bolt Pattern - Offset	Typically refers to 4 pad Chrysler converters with pads NOT equally spaced in relation to one another. The distance (center to center) is DIFFERENT when measuring adjacent pads
Bolt Circle Radius	The measurement between the center of one mounting point (bolt hole or stud) and the center of the pilot. Bolt Circle Radius x 2 equals Bolt Circle Diameter.
Brazing	The practice of reinforcing fins in either the primary (impeller) or the turbine. Brazing can be done manually with a TIG welder, or can be done via a method where components are placed in a special oven or furnace.
Coast Relief Valve	a.k.a. Poppet Valve. Pressure relief mechanism in converter to release TCC (torque converter clutch) while coasting.
Cover	a.k.a. “front cover”. The half of the converter outer shell that mounts to the engine drive plate. The cover typically has the pilot and mount pads (or studs) incorporated into it.
Datum Plane Generation	The proprietary RECON Reman process that insures component “parallelism & perpendicularity”.
Diameter, Overall	The largest width measurement of the converter not including a ring gear, mount ring or inertia ring if attached.
Elliptical	Low profile oval shaped converter
End Play	Internal component clearance measurement. Not the same as clutch clearance.
Fin Angle	Typically refers to the angle of the ‘dimples’ or ‘ribs’ on the exterior of the impeller (primary). Fin Angle is one variable that controls the stall speed of the converter.
Friction Material - LCC	Paper with Low Carbon Content (Only a small percent is carbon)
Friction Material - Paper	Paper (Organic, Cellulose Based)
Friction Material - WC	Woven Carbon (100% Carbon)
Hub	Component of the converter that inserts into the pump of the transmission. Hubs may or may not have ‘flats’, ‘slots’ or ‘ears’ that are used to drive the transmission pump, depending on application.
Impact Gun	Pneumatic tool typically used by mechanics to quickly tighten or loosen fastening nuts or bolts. NOTE: never use an impact gun to fasten converters to engine drive plates.
Impeller	a.k.a. Primary. Half of the converter outer shell that has curved fins/blades attached to the inside. The impeller is the driving member of the converter. Typically, the converter hub is incorporated into the ‘impeller half’ of the unit.
Input Splines	The splines on the input shaft that connect to the converter driven member (Turbine)
Lock Up	Term used to describe converter function where a friction element inside the converter is hydraulically applied so that a direct and mechanical link is made between the engine and transmission.
Lock Up - Captive Clutch	Type of clutch pack lock up that has inaccessible friction components due to unique and proprietary OE designs. Typically found in ZF 5HP19 and 5HP24 converters.
Lock Up - Centrifugal	Type of lock up that is achieved and controlled by centrifugal force within the converter. This type of lock up function is not controlled electronically or hydraulically.
Lock Up - Clutch Pack	Type of lock up that uses a clutch pack similar to clutch drums found in the transmission. Friction and steel plates are serviceable and held in place with a snap ring.
Lock Up - Clutch Piston	Most common type of lock up. Uses a single ‘spring dampened’ piston and a single friction element.
Lock Up - Damper Drive	Type of lock up where a clutch pack in the transmission is driven by an independent shaft that is splined into a spring dampened drive plate that is fastened to the inside of the converter cover

GLOSSARY	
Lock Up - Multi Friction Clutch	Type of clutch piston lock up that uses more than one friction element
Lock Up - On / Off	Term used to describe characteristics of lock up control. “On-Off” indicates that the friction elements in the converter are either fully applied, or fully released. Application does not call for the converter clutch to be ‘partially slipped’
Lock Up - PWM	Type of lock up control that allows the converter clutch to partially ‘slip’ during normal operation. “PWM” refers to Pulse Width Modulation. A PWM system typically incorporates valve body, solenoid and software components that can pulse (as opposed to simply turn off) release oil to the converter clutch assembly. Converter clutches can be slipped very briefly, or over extended periods of time, depending upon application. Different OEMs use different techniques in different applications; therefore not all PWM systems are the same. Typically, the converter clutch assembly is calibrated to the type of PWM system that is used in a specific application. Mismatching non PWM torque converters into PWM equipped applications (and vice versa) can cause drivability problems and premature failure.
ECCC (EC3, EC³)	Electronic Converter Clutch Control (ECCC) is a proprietary type of PWM control of the converter clutch that was introduced by General Motors into some applications as early as 1996. ECCC (also know as EC3 or EC3) strategy can continuously slip the converter clutch for very long periods of driving. ECCC typically requires use of woven carbon (or equivalent) friction material that can endure the heat generated by this style of PWM. The most reliable way to determine if a vehicle uses ECCC strategy is to connect a scan tool to the vehicle and monitor the method by which lock up is applied.
Pads, Lugs, Studs	Types of ways that the converter can be attached to the engine flex plate or flywheel.
PCM	Power Control Module. Can also be referred to as TCM, ECM, VCM, or simply ‘the computer’. Hardware and software that controls electronic functions of the transmission in ‘computer controlled’ applications.
Pilot	The part of the cover that is inserted into the engine crankshaft when installing a torque converter,
Overall Converter Height	Measured from the leading edge of the hub to the surface of the converter that sits against the flex plate.
Run Out	Measurement of converter components as they deviate from centerline. Typically, run out is measured from ‘pilot to hub’, and is recorded as “TIR” (total indicated run out). There are many variables and methods used to measure run out, and different methods will produce different results
Stall Speed	Hypothetical maximum engine RPM measurement with the input shaft of the transmission locked in place. This is how fast the engine can spin the outside shell of the converter with the inner turbine locked in place. Stall speed is dependent upon the power characteristic of the engine that is driving the torque converter. The same converter will have a different stall speed when placed behind different engines.
Stator	Component of the torque converter that is separate and independent from the outer shell of the converter. When installed on the transmission, the stator is splined onto stator support splines. Stator typically contains a roller clutch or sprag assembly that allows one way rotation.
Stator Support	Stationary splines in the transmission that supports the stator inside of the converter.
Turbine	Component of the torque converter that is separate and independent from the outer shell of the converter. The turbine is the driven member of the converter that is splined to the input shaft of the transmission.
Weights - (Converter)	Converter balance weights: Balance weights attached to the converter that are in place to balance the torque converter. These smaller weights are typically between 5 and 20 grams
Weights - (Engine Balance)	Engine counter balance weights: Balance weights attached to the converter that are in place to balance the engine crankshaft. These larger weights are typically between 60 and 120 grams

GLOSSARY

			
Alignment Pin	**Boss**	**Cooling Shroud**	**Drain Plug**
Hub - Bushing	**Hub - Ears (Tabs)**	**Hub - O-Ring** (Not Included)	**Hub - Milled Flats**
			
Hub - Slotted	**Hub - Smooth Round**	**Hub - Splined**	**Impeller - Ribbed (Dimples)**
Impeller - Smooth	**Hub - (Non Flanged)**	**Hub (Flanged)**	**Inertia Ring**
			
Mounting Ring w/ Threaded Holes (No Dowels)	**Mounting Ring** w/ Threaded Holes & Dowel Holes	**Pad - Stud**	**Pad - Extended Stud**

GLOSSARY

			
Pad - Chrysler Short	**Pad - Chrysler Tall**	**Damage to Cover by Using the Wrong Bolt.**	**Caution! Use the correct length of bolt!**
			
Pad - GM 245 mm Rwd	**Pad - GM 245 mm Fwd** (Exc 245 mm Viscous Clutch)	**Pad - GM 258 mm Rwd** (Also 245 mm Viscous Clutch)	**Pad - GM 280 & 300 mm Rwd**
Pad - GM 298 mm RWD Rectangular	**Pad - GM 298 mm RWD Round**	**Pad - GM 300 & 280 mm Rwd**	**Scallops**
Shafts - Input, Non Lock Up (Solid & no Rings or O-rings)	**Shafts - Input, Lock Up** (Hollow w/Rings or O-rings)	**Stall - Low** Compare Fin Angles	**Stall - Medium** Compare Fin Angles
Stall - High Compare Fin Angles	**Weight - Butterfly**	**Weight - 91 Gram**	**Weight - Rectangular**

CONVERTER CODES

Codes	Part #
01	DA48
01	FM61
01	TO55A
01	VO31
002	CR42
02	DA48
02	TO55L
03	FM61C
03	TO26-20
03	TO59
03	TO8901
003	VW11
04	FM61C
04	HO3000
04	HO3001
04	TO55L
04	TO65
05	DA48
05	TO22
05	VW59
06	BMW17
06	DA48
06	FM61
06	SU16
07	BMW25
07	FM61C
07	TO33
07	TO9701
08	DA48
08	FM61M
09	TO65
010	TO14701
010	TO44A
012	DA42
018	DA48
019	TO45
039	CR44
040	CR44
058	CR35
068	CR43
070	TO22
072	CR40
073	DA85
076	CR45
085	CR62
087	CR61
087	DA85
090	VW13
095	VW17
095	VW18
096	VW17
03679	BMW12901
030417	TO73
0406220417	TO42B
0609290996	FM4800
000-010	BMW95A
000-014	AU14
000-193	BMW95A
001-S	SU11
002B	CR47
002B	CR97
003R	TO59
010-0328	BMW12901
011P	TO53LS
016Y	TO53LS
017V	TO53
018S	TO53LS
019N	TO45

Codes	Part #
01B13	TO33L
01INK	TO55A
01M	VW21
01V	AU20
01X	TO44
023K	TO45
0302A	TO44A
030929E	FM90
0316C	DA54
0320C	DA54
0329C	DA54
04752603AA	CR7801
04753520AA	CR1320
04753520AB	CR1320
04753524AA	CR0920
04753524AB	CR0920
04753527AA	CR0921
04753534AA	CR0920
04753534AB	CR0920
04753534AC	CR0920
04753556AA	CR1320
04753556AB	CR1320
04753556AC	CR1320
04F22	KM9901
04G20	KM9901
05A010	TO71
05Y	FM3901
06A28071	GM1991
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072-08122	VW1502
079-00937	VW1501
07E14A	CR9901
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4	HO77
4	HO79
5	HO62
5	HO71
5	HO79
5	TO66
6	HO72
6	HO80
7	HO59
7	HO66
8	HO58
8	HO61
8	TO22
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11	TO75L
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13	DA31L
13	HO57
13	TO33L

Codes	Part #
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14	FM61R
14	TO33L
14	TO75
15	FM61M
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15	TO42B
#15 Bar Code	TO42
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#16A Bar Code	TO64
16	SU16
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18	FM59
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19	TO33L
19	TO73
19	VW9801
20	FM71
20	PCH59
21	BMW52
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23	AU26
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37	FM61R
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39	FM3901
40	FM61
40	TO3701
41	KM15
41	KM15B
41	TO3701
42	DA57
42	FM59
43	FM61R
44	FM71
45	FM71
45	HO61
46	FM61C
47	FM61C
49	DA31
49	FM38
49	FM48
49	FM71C
51	FM59
51	FM59A
51	KM10HD

Codes	Part #
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52	KM12BHD
52	KM12HD
53	FM61
54	FM38
54	FM48
54	FM71H
54	KM12BHD
54	KM12HD
55	FM59A
56	FM38
56	FM48
56	FM71
56	KM10HD
56	KM12BHD
56	SU16
57	FM39
58	FM72C
58	SU16
59	FM71
59	HO59
61	HO61
63	FM71H
64	FM128
64	FM59A
65	DA28
65	FM128
66	FM71H
67	FM71H
68	HO68
68	KM12BHD
68	KM12HD
69	FM71H
70	DA85
70	DA85L
70	SU6301
70	TO22
70	VO22
71	DA85
71	FM72C
71	KM11HD
72	FM71
72	FM71H
73	AU13
73	FM71C
73	FM71H
74	FM71
74	FM71C
74	FM71H
74	SU15
75	FM71
76	FM71
76	KM12BHD
76	KM12HD
76	SU14
76	SU17
77	FM71
77	SU17
78	KM13
79	FM71
79	FM71H
79	SU17
80	FM71H
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84	FM48
85	FM48
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86	KM12HD

Codes	Part #
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89	KM12HD
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91	SU16
95	SU18
96	FM71H
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131	CR36
136	CR41
137	CR41
138	CR46
138	CR72
140	SU6302
143	CR39
146	CR47
146	CR97
147	CR73
150	SU16
154	KM12BHD
154	KM12HD
161	CR39
170	KM5HD
170	SU3301
193	GM82
194	GM81
202	TO22
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210	AL1211
211	A7X
211	AL1210
215	HO69
216	HO69
221	A7XL
221	AL1212
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244	CR73
250	CR62
250	CR73
260	FM18
270	A3HD
274	CR36
275	A3HD
289	FM18
290	A6HD
290	TO22
290	TO33
302	FM18
305	CR42
305	CR73
305	TO81
310	TO14701
311	CR45
311	CR47
311	CR73
311	CR97
316	CR46
316	CR72
320	TO14701
320	TO70
324	CR29
324	CR67
325	CR54L
330	TO70
339	CR40
340	CR39
340	CR39K

Codes	Part #
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433	TO78
433	TO79L
434	TO79
437	TO77
444	CR42
444	CR73
447	CR0621
466	CR35
476	CR45
479	CR73
492	GM81
506	CR65
526	GM82
528	GM81
534	CR36
540	FM71H
543	CR80
544	CR42
544	CR73
549	CR91
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576	GM81
595	CR44
595	CR70L
595	CR94
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596	CR94
596	CR94L
597	CR35
597	CR72
599	CR93
601	GM82
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604	GM82
606	GM81
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633	CR65
634	CR70L
634	CR70X
636	CR46
636	CR72
642	CR64
643	CR64
644	CR70L
671	GM81
675	GM81
678	GM81
679	CR46
679	CR72
682	CR66
683	CR66

Codes	Part #
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746	CR78
749	GM87
761	CR39
761	CR39K
767	CR94L
775	CR45
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785	CR94
787	CR94L
795	CR90
799	CR46
803	CR46
820	FM90
825	GM88H
829	GM88
830	GM88H
831	GM88H
842	CR64
849	GM81
850	SU16
850	SU16B
861	GM88H
863	CR66
868	CR70L
868	CR70X
868	CR94L
878	CR63
878	CR64
879	CR63
881	CR79
901	SU16
910	SU16B
925	DA24
936	CR36
956	CR46
956	CR72
956	CR73
957	CR63
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1055000032	BMW80
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1055000040	BMW80
1056000088	BMW35
1058000005	BMW13900
1058000009	JA13906
1058000013	JA13906
1058000014	JA13905
1058000015	JA13906
1058000016	BMW13900
1058000021	BMW13901
1058000022	BMW13902
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1058000026	JA13906
1058000029	BMW13903
1058000032	BMW13903
1058000034	BMW13904

Codes	Part #
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1058020007	AU13908
1058020009	AU13908
1058020014	AU13908
1058020015	AU13908
1058020021	AU13908
1058020030	AU13909
1058020031	AU13908
1058020033	AU13908
1060000005	BMW62
1060000008	BMW61
1060000009	BMW63
1060000010	BMW12901
1060030005	AU20
1060030011	AU22
1060030021	AU23
1060030027	AU23
1060030059	AU22
1060030088	AU22
1060040002	AU20
1060040012	AU23
1060040013	AU23
1060040035	AU22
1060040036	AU23
1060040065	AU22
1060040100	AU24
1060040101	AU11
10A610	TO23
10A610	TO39
11A	BMW36
11A	FM55B
11B	TO47L
11P	TO53LS
123-250-0202	MB39
123-250-0402	MB42
124-250-0002	MB33
124-250-0302	MB33
124-250-0902	MB33
124-250-1002	MB33
124-250-1702	MB33
12491317	GM53
12491318	GM92
12491334	GM88H
12491978	GM50
12491978	GM51
12491980	GM53
126-250-0002	MB32
126-250-0145	MB30
126-250-0902	MB32
126-250-1102	MB37
126-250-1202	MB38
126-250-1302	MB32
126-250-1402	MB38
126-250-1502	MB30
126-250-1602	MB30
126-250-1702	MB30
126-250-2302	MB30
126-250-3402	MB37
13A	FM55B
140-250-0402	MB19
140-250-0502	MB19
140-250-0602	MB19A
140-250-0802	MB19A
140-250-0902	MB19A
1416U	TO75
141887781	CR0621
14216630	VO32
144-101	BMW80

CONVERTER CODES

Codes	Part #
148-001	AU3
149-002	BMW36
149-003	BMW51
149-003	BMW53
14A	FM55
14L	TO8903
156-200	AU20
156-200	AU26
156-200	PCH54A
156-201	AU11
156-201	PCH54
156-202	AU22
156-203	AU23
156-203	BMW12901
156-204	PCH54A
156-207	AU24
156-207	AU25
156-208	AU13
156-208	BMW43
156-208	BMW62
156-208-0802	AU13
156-209	BMW63
157-100	AU13908
157-100	BMW13900
157-100	BMW13901
157-101	AU13909
157-102	BMW13900
157-102	BMW13903
157-102	JA13906
157-104	BMW13902
157-109	JA13905
15A	FM55
15A	FM55
15A	TO42B
15A0601	TO42B
15B	TO42
15B	TO42B
168BW	CR13
16A	TO42
16A	TO42B
16U	TO42
16U	TO42B
16U	TO53
16U	TO53LS
16U	TO75
16U	TO75L
16U	TO8903
16U	VO28
16U	VO31
16U11	TO75L
16V	VO28
16Y	TO53LS
17803805	GM92
17803851	GM92
17803871	GM88H
17804098	GM92
17804099	GM56
17804388	GM10404
17V	TO53
17V	TO53LS
182-002	BMW13904
18686	FM3901
18A	FM55B
18S	TO53LS
18S4	TO53LS
19257717	HO82
19A	FM55B
19B1	GM82

Codes	Part #
19N	TO45
1B13	TO33L
1B14V	TO75
1C16X	TO44A
1F	KM12BHD
1F1P-AA	FM71H
1F1P-AB	FM71H
1F1P-AC	FM71H
1F2P-AA	FM71
1F2P-AB	FM71
1F3P-AA	FM71C
1F3P-AA	FM71H
1INK	TO55A
1K120159	TO55
1L050264	TO55
1L2AB	FM68HD
1L2AC	FM68HD
1L5AB	FM134HD
1L5AB	FM136HD
1L5AC	FM134HD
1L5AC	FM136HD
1L5AD	FM134HD
1L5AD	FM136HD
1LZA	FM68HD
1Q	KM12BHD
1R6	GM19
1R6	GM20F
1R7	GM19
1R7	GM20F
1SA0	GM81
1SA1	GM81
1SB1	GM82
1W4P-AA	FM138-8
1X	TO42B
1X	TO44
201-250-0002	MB42
201-250-0102	MB41
201-250-0102	MB42
201-250-0402	MB40
201-250-0402	MB42
201-250-0502	MB42
201-250-2002	MB42
202-250-0002	MB41
202-250-0002	MB42
202-250-0102	MB42
202-250-0402	MB42
202-250-0502	MB42
202-250-2002	MB42
206-205	JA95
206-507	BMW95
206-700	BMW45
206-700	JA95A
209-250-0602	MB23
209-250-0702	MB23
209-250-0802	MB22
209-250-0802	MB23
209-302	BMW55
20A020	TO18C
20A020	TO59
20A050	VO25
20A050	VO29
20A150	TO59
20A420	TO59
210-250-0402	MB18
210-250-0502	MB18
210-250-0602	MB18A
210-250-0702	MB18
210-250-0702	MB18A

Codes	Part #
210-250-0902	MB18
210-250-0902	MB18A
211-250-0002	MB18A
211-250-0302	MB18A
211-250-0702	MB18A
211-250-0802	MB18A
211-250-0902	MB18
21211407	GM88
21B	N33G03
21C	N33G01
21F	N33G02
2209C	DA54
221-03-41C07	MB22
221-04-41D	MB21
221-250-0102	MB22
221-250-0302	MB22
221-250-0502	MB21
221-250-1202	MB22
221-250-1702	MB22
221-250-2202	MB22
22B	CR33N01
22C	CR33N02
231103481196	BMW51
231103481196	BMW53
23K	TO45
24020031	GM24-6
2419327	GM88
24200140	GM25
24200145	GM85
24200319	GM24-6
24200322	BMW29
24200343	BMW29LS
24200344	BMW29
24201308	GM71C
24201885	GM86
24201885	GM86A
24202174	GM18AL
24202175	GM18AL
24202308	GM18AL
24202522	GM58C-WHD
24202989	GM81
24202989	GM88
24202990	GM81
24202991	GM81
24202992	GM82
24202993	GM82
24203554	BMW29
24204000	GM9401
24204547	GM63C
24204668	GM18AL
24204669	GM18AL
24205484	GM86A
24205486	GM86A
24206162	GM35CW
24206447	GM53
24206636	GM90
24206642	GM92
24206914	GM42CW
24206915	GM73C
24207200	GM61C-WHD
24207239	GM50
24207329	GM50
24207330	GM51
24207330	GM53
24207626	GM52
24207734	GM50

Codes	Part #
24208325	GM92
24208326	GM94
24208475	GM71CW
24208476	GM63CW
24208646	GM18AL
24208648	GM18AL
24208648	GM33CW
24208649	GM33CW
24208860	GM50
24208861	GM51
24209248	GM86A
24209249	GM84
24209250	GM86A
24209428	GM86A
24210114	GM42CW
24210141	GM83
24210693	GM82
24210705	GM24-6
24210707	BMW29LS
24210708	GM24-6H
24210713	GM24-6H
24210715	GM24-6H
24210825	GM88H
24210827	GM88
24210828	GM88
24210829	GM88
24210830	GM88H
24210831	GM88H
24210862	GM88
24210868	GM87
24210869	GM87
24210919	GM92
24210921	GM33CW
24210922	GM35CW
24211068	GM87
24211228	GM87
24211228	GM87CW
24211229	GM87
24211229	GM87CW
24211289	BMW29
24211322	GM42CW
24211330	GM73CW
24211407	GM88
24211943	VO30
24211944	VO32
24212423	GM90
24212743	GM71C
24212743	GM71CW
24212839	BMW38LS
24212840	BMW38
24213279	GM53
24213391	GM90
24213392	GM90
24213393	GM92
24213406	GM87CW
24213496	GM87CW
24213729	GM53
24213730	GM52
24214840	BMW38
24215416	GM53
24215557	GM55
24215581	BMW41
24216146	GM37
24216222	GM53
24216224	GM50
24216226	GM50
24216230	GM51
24216232	GM53

Codes	Part #
24216236	GM52
24216629	VO30
24216630	VO32
24216768	BMW40L
24216770	GM56
24216771	GM46
242169407	GM58C-WHD
24217235	GM88H
24217236	GM88
24217328	GM88
24217364	GM88H
24217466	GM71CW
24217467	GM71CW
24217470	GM42CW
24217609	GM81
24217609	GM88
24219047	GM58C-WHD
24219303	GM88H
24219326	GM88H
24219327	GM88
24219328	GM88H
24219329	GM88
24219330	GM88H
24219407	GM58C-WHD
24219491	BMW38
24219828	GM42CW
24219830	GM42CW
24220861	GM88H
24220869	GM87CW
24220895	GM38
24221093	GM96
24222019	GM71CW
24222784	GM71C
24222784	GM71CW
24222789	GM71C
24222789	GM71CW
24222905	GM37A
24222998	GM96
24223281	GM38A
24224075	GM55
24224255	GM71C
24224255	GM71CW
24224256	GM42CW
24224258	GM42CW
24225976	BMW40L
24226853	GM10402
24227088	GM92
24227093	GM58C-WHD
24227094	GM71C
24227094	GM71CW
24227179	GM92
24227601	GM96
24227628	GM95
24227930	GM88H
24227936	GM88H
24227948	GM92
24228334	GM92
24228392	GM55
24228538	GM88
24228708	GM55
24228709	GM55
24229277	GM54
24230001	GM51
24230004	GM53
24230005	GM53
24230006	GM53
2423004	GM53
2423006	GM53
24233679	GM86A
24233966	BMW40L
24235591	GM42CW
24236469	GM10405
24238202	GM10404
24238404	GM56
24238504	GM56
24238578	GM55
24239065	GM10401
24240017	GM10403
24240019	GM10401
24240021	GM10402
24240603	GM55
24240863	GM88
24241866	GM42CW
24241978	GM93
24242396	GM10404
24242397	GM10404
24243455	GM1441
243281	GM38A
250AB	CR42
250AB	CR73
25AR	HO63
25AR	HO80
275LU	A9HD
27892422	GM71CW
27M	HO62
27N	HO62
286829748	KM12BHD
286829748	KM12HD
29514486	A6HD
29514487	A3HD
29530317	A7XL
29530317	AL1212
29530318	A7X
29530318	AL1210
29530319	A7XL
29530319	AL1212
29534832	A7XH
29534832	AL1211
29538197	A7XH
29538197	AL1211
29538347	A7XL
29538347	AL1212
29538348	A7X
29538348	AL1210
29538528	A7XL
29538528	AL1212
29538529	A7X
29538529	AL1210
29538531	A7XH
29538531	AL1211
29540484	A7XL
29540484	AL1212
29541293	A7X
29541293	AL1210
29541833	A9HD
29543003	A7X
29543003	AL1210
29543015	A7XH
29543015	AL1211
29543017	A7X
29543017	A7XL
29543017	AL1210
29543017	AL1212
29546573	A7X
29546574	A7XH
29546574	AL1211
29546576	A7XL
29549519	A7XL
29549519	AL1212
29549521	A7XH
29549521	AL1211
29549522	A7X
2A	KM24
2B	CR47
2B	CR97
2B	FM69C
2B	FM69H
2C	KM24
2C	KM27
2D	KM8202
2E00192	TO79L
2G	KM30
2G	VO20
2KJ	DA48
2KJ08	DA48
2L2BA	FM68HD
2L5AA	FM134HD
2L5BD	FM134HD
2N	HO60
2N	TO40B
2N	TO47L
2Z09C	DA54
302A	TO44A
30417	TO73
30929E	FM90
30A	FM55B
30A	TO22
30A010	TO33
30A030	TO33
30A070	TO22
30A070	TO33
30A108	TO33
30A160	TO81
30A260	TO62
30A340	TO62
30A340	TO62A
30A360	TO22
31287	TO59
323-023	ZF1890
323571A	VW1501
323571D	VW1502
323571E	VW1503
323571G	VW1503
32B	FM70
34047	TO18
34-047	TO18
352AA	CR2A
352AB	CR2A
36A	FM55B
37A	FM55B
39000	FM3901
3-95B	KM12BHD
3-95B	KM12HD
395T6	CR7801
39A	FM55B
3A	VO19
3AB	CR0621
3B	KM23
3F1P	FM90
3F1P-AE	FM90
3F1P-AF	FM90
3F2P	FM90LS
3F2P-AG	FM90LS
3F2P-BF	FM90LS
3G	KM22
3K	HO65
3L2P-CA	FM138-8
3M	KM16BHD
3R	TO59
3T	KM16BHD
3X	KM16CHD
406220417	TO42B
407622	TO75
40A010	TO67
40A020	VO28
40A030	TO69
40A100	TO39
40A320	VO28
40A570	TO37
40A571	TO37
40A600	TO69B
40A610	TO39
40A710	TO37
40A930	TO8902
40A970	TO75
40A980	TO42B
40B	DA60
40B060	TO8903
415BD	FM134HD
416802200606	BMW61
416802504602	AU22
416802504606	AU22
416802506302	AU23
416802512706	AU20
416802514502	BMW63
416802514602	BMW62
416802521306	BMW80
416802533102	BMW12901
416802533106	BMW12901
416802533506	AU24
416802637602	BMW13900
416802637606	BMW13900
416802638006	JA13905
416802638102	JA13906
416802638902	JA13906
416802639202	BMW13901
416802639406	AU13908
416802639506	AU13909
416802639602	BMW13902
416802639606	BMW13902
416802660402	BMW13903
416802822106	BMW32
416802829902	BMW13904
421AB	MB18B
42A010	VO31
42A030	TO68
42A040	TO8901
42A050	VO31
437Y51	TO77
43A012	TO68
43A020	TO68
43A020	VO31
43A021	TO68
43A030	TO68
43A080	TO78
43A090	TO78
43A120	TO79
43A160	TO79L

CONVERTER CODES

Codes	Part #
43A220	TO68
43A240	TO68
43A260	TO77
43A261	TO77
43A290	TO68
4473689AA	CR0621
447AA	CR0621
447AA	CR0923
447AA	CR7801
447AA	CR85
447AA	CR86
447AB	CR0621
447AB	CR0920
447AB	CR0921
447AB	CR0923
447AB	CR1320
447AB	CR86
448AA	CR7801
44A	FM55B
45820006	GM53
45H	HO61
461AB	CR86
461AD	CR85
46A010	VW1502
46A040	VW1503
46A060	VW1503
46A100	BMW1501
46A110	VW1501
4736461	CR85
4736461	CR86
4736461AB	CR86
4736461AD	CR85
4736478AA	MB18B
4736489AA	CR7801
4736582AD	CR2
4752603AA	CR7801
4753520AA	CR1320
4753520AB	CR1320
4753524AA	CR0920
4753524AB	CR0920
4753527AA	CR0921
4753534AA	CR0920
4753534AB	CR0920
4753534AC	CR0920
4753556AA	CR1320
4753556AB	CR1320
4753556AC	CR1320
476AD	CR0923
476AD	CR85
478AA	CR0920
478AA	MB18B
47A010	FM3901
489AA	CR7801
489AA	MB18B
489AA34953	CR7801
4A3	HO69
4A3	HO80
4B	KM12BHD
4B	KM12HD
4B0	HO66
4B1	HO55
4B6	HO66
4BC	HO66
4BO	HO66
4C	KM25
4F	HO61
4F22	KM9901
4G20	KM9901

Codes	Part #
4H	KM25
4L2AC	FM68HD
4L2P-BA	FM138-8
4L2P-CA	FM138-8
4L5AD	FM134HD
4L5BD	FM134HD
4M	HO66
4M	HO77
4P	KM25
4R3P	FM4600
500AA	MB18B
50A020	TO66
50A040	TO44A
50A070	TO44A
50A080	TO44A
50A110	TO14701
50A150	VW59
51A	FM69
520AA	CR1320
520AB	CR1320
520AB	MB18B
52117644	CR70L
52118868	CR70L
524AA	CR0920
524AB	CR0920
527AA	CR0921
527AB	CR0921
52A	FM70
52A	FM70HD
534AA	CR0920
534AB	CR0920
534AC	CR0920
538AA	CR1323
53A010	TO71
53A011	TO71
53A020	TO55A
53A020	TO70
53A040	TO14701
54BM	KM12BHD
54BM	KM12HD
556AA	CR1320
556AB	CR1320
556AC	CR1320
557AA	CR0921
557AB	CR0921
557AC	CR0921
560AA	MB18B
560AA3224Z	MB18B
56A	FM55B
580AA	MB18B
580AA3224Z	MB18B
580AA3464Z	MB18B
580AB	MB18B
587AB	CR2A
58A	FM55B
58A	FM69C
59A	FM69H
5A010	TO71
5A070	TO44A
5A1	TO14701
5A1	TO44A
5A1	TO44B
5A100	TO44A
5E11U	TO61
5F	TO60
5F2	FM90LS
5F2P	FM90LS
5F2P-AD	FM90LS

Codes	Part #
5F2P-AG	FM90LS
5F2P-BC	FM90LS
5G13-AA	FM3902
5G1Z-AA	FM3902
5GA	HO68
5L2P-AF	FM9502
5L8P	FM89L
5L8P-DA	FM89L
5L8P-DP	FM89L
5M	HO77
5OA020	TO66
5OA040	TO44A
5W	VO20
602019	HO80
602019E2-P8F	HO80
603AA	CR7801
609290996	FM4800
60A080	TO62
60A100	GM1991
61A	FM69
61A100	GM1991
62A	FM70
62A	FM70HD
63A	FM69H
64A	FM69C
65A	FM69
66775	DA18
671AD	CR7201
671AE	CR7202
68109671AB	CR7202
69A	FM69
6A28071	GM1991
6A29	DA30
6A83	DA55
6AA	HO72
6B46	SU16A
6C	TO37
6D	KM28
6DORP9	KM28
6E	TO12
6E080777	TO55L
6F	TO60
6F35-9L	FM1441
6G	KM17-6
6K	KM14
6K	KM14B
6L	KM31M
6L2P-AG	FM9502
6M	KM31H
6MM	FM1603
6MM	FM160L
6MM	FM160M
6T	DA8B
6X	KM17
70A	FM70
70A	FM70HD
70A020	VO3901
71A	FM69L
71A040	FM3902
722-250-0602	MB43
722-250-1102	MB19B
72376	KM12BHD
72376	KM12HD
72A	FM69
72A	FM69C
73A	FM69C
74A	FM70
74A	FM70HD

Codes	Part #
75A	FM69C
76322	GM80
76A	FM69C
77A	FM69C
77A	FM69L
7A	FM55
7C	KM8201
7E14A	CR9901
7G	GM1241
7G6	GM1241
7G7	GM1241
7G8	GM1241
7H	GM1242
7H7	GM1242
7H72201G	GM1242
7L2AA	FM67HD
7L6	FM1241
7L7	FM1241
7L70321F	FM1241
7L70651F	FM1241
7L72651F	FM1241
7LL6	VW9800
7M	VO20
7P	TO60
8004096AB	MB18B
80A	FM69C
81A	FM70
81A	FM70HD
822809L	CR2
82A	FM69C
830AB	CR86
834AA	CR0923
845AA	CR0621
845AA	CR86
84A	FM69L
853A	CR86
8676526	GM82
8676528	GM81
8678197	BMW29
8678957	GM71
8680189	GM24
8681486	GM85
8681964	GM42
8682088	GM83
8682604	GM82
8682606	GM81
8682848	GM84
8683440	GM86
8683440	GM86A
8683441	GM84
8683670	GM81
8683671	GM81
8683675	GM81
8689960	GM81
8689960	GM88
8689990	GM86
8689990	GM86A
8689991	GM84
8690936	GM71C
8691904	GM35
8691911	GM18AL
872AA	CR85
872AB	CR0923
87BA	FM136HD
87HFD	FM68HD
893AA	CR0621
893AB	CR0621
89A	FM69C

Codes	Part #
8b	HO77
8b	HO78
8B	TO26-20
8B	TO47
8C	HO79
8F	HO80
8F04U	TO44A
8FC2X	HO80
8G	TO17
8P	HO80
8U	TO40
8U	TO40B
8U	TO47
8U	VO29
8V21A93	HO80
903-250-0002	MB18
9212140	GM83
930113765	TO59
93012117	GM83
94A	DA18
956AB	CR42
956AB	CR73
956AB	CR88
956AD	CR73
96012117	GM83
96012140	GM83
96012187	GM83
9604117	BMW29
96041177	BMW29
96041998	GM87
9612140	GM83
9691906	GM18AL
9691912	GM18AL
96A	FM69H
974A	CR42
975A	CR42
97B	DA46
97HCA	FM136HD
97HFB	FM68HD
97HFC	FM68HD
97HFD	FM68HD
97HJC	FM76HD
98A	FM69C
99A	FM69L
9A	J30
9A	VO20
9A8	GM1241
9B	TO47
9D-232-521	PCH59
9D-323-521	PCH59
9F	VO20
9F8	FM1242
9G	VO19
9J	VO20
9L	TO44
9L3P-AF	FM9501
9L8P-AA	FM1441
9R	TO18C
9R	TO47L
A	DA28
A	DA31
A	DA48
A	FM138-8
A	FM4600
A	FM64
A	FM64L
A	FM80
A	HO56

Codes	Part #
A	HO64
A	HO69
A	SU6301
A	VW20
A080	TO44B
A080A	TO44B
A1	DA16HD
A1	DA20
A1	KM13
A1	KM9
A10	DA16HD
A11	BMW36
A12	DA36
A12	DA48
A12	KM12BHD
A12	KM12HD
A121	TO59
A13	DA16HD
A13	DA36
A14	BMW43
A18	DA16HD
A19	DA16HD
A2	DA16HD
A2	DA59
A2	KM8HD
A20	DA25
A20	DA36
A20	DA36A
A22	DA16HD
A23	BMW45
A23	DA16HD
A24	DA16HD
A24A	HO69
A25	DA16HD
A27	DA16HD
A2YA	HO69
A3	BMW13
A3	BMW34
A3	DA16HD
A3	DA20
A3	DA59
A32	PCH54
A33	AU11
A33	DA36
A34	DA16HD
A39	DA16HD
A3-A5	DA16HD
A4	DA16HD
A40	DA16HD
A43	DA16HD
A44	DA16HD
A47	DA36
A48	DA16HD
A49	DA31
A4RA	HO69
A4RNA	HO3003
A5	DA16HD
A52	DA31
A53	DA31
A59	DA31
A5GF1	KM41
A5P72	HO69
A6273	BMW29
A6VA	HO72
A7	DA16HD
A73	AU24
A8	DA16HD
A8	HO64

Codes	Part #
A85	BMW13903
A9	AU13
A9	BMW21
AA	DA28
AA	FM136HD
AA	FM138-8
AA0	HO72
AB	CR86
AB	FM138-8
AB	FM18
AB	FM64Q
AB	HO64
AB	HO69
AC	FM102
AC	FM64R
AD	CR85
AD	FM138
AD	FM138-8
AD	FM138SC
AD	FM64R
AF	FM136HD
AF	FM64R
AF	FM68HD
AG	DA48
AG	JA3
AG	VO10
AG	VO13
AJ	HO55
AK	HO55
AL	HO64
AOYA	HO72
APX4	HO66
AS	HO55
AS	HO59
AU	TO40B
AU1	VW14
AYA	HO72
AZ	DA59
B	CR0621
B	DA26
B	DA40
B	DA48
B	FM127
B	FM138-8
B	FM4600
B	FM64L
B	GM16AH
B	GM18AH
B	GM31
B	GM31CW
B	GM61HD
B	GM8
B	HO59
B	HO61
B	HO64
B	HO69
B	HO71
b	HO72
b	HO78
B	TO15701
B05	HO79
B1	CR2
B1	DA40
B11	JA95
B13	BMW32
B14	DA40
B15	DA40
B16	AU13

Codes	Part #
B16	AU26
B17	DA40
B18	BMW42
B1A1	CR2
B24	JA13906
B25	AU13
B26	BMW53
B27	AU21
B28	AU11
b3	KM12BHD
B31	AU11
B31	GM83
B33	AU24
B35	AU20
B35	AU21
B36A	HO3000
B36A	HO3001
B38	AU11
B3X	HO72
B3X06A3	HO72
B4	DA40
B4	KM12BHD
B4	KM12HD
B40	DA60
B46A	HO69
B4H	HO72
B4H23A2	HO72
B4RA	HO69
B5	HO79
b5	KM12BHD
B5B	HO72
B5B151050	TO71
B5B250088	TO71
B5BM	HO72
B5E060605	TO71
B5K121043	TO71
b6	HO69
B623	DA24
B6K	HO78
B6K29A7	HO78
B6K300832	TO71
B6VA	HO77
B7	DA40
B73	AU25
B7GA	HO80
B7MA	HO69
B7MAJB4	HO69
B7TA	HO80
B7UA	HO80
B7VA	HO80
B7WA	HO80
B7XA	HO79
B7YA	HO80
B8	BMW45
B83	FM3301
B9	DA40
B901268	KM12BHD
B901268	KM12HD
BA	FM136HD
BA	HO68
BA	HO69
BA	HO78
BAA	FM68HD
BAA	HO81
BAB	FM68HD
BAXA	HO66
BAXA	HO77
BAXA	HO78

CONVERTER CODES

Codes	Part #
BAXA	HO79
BAYA	HO72
BAYA	HO79
BB	GM16AH
BB	HO69
BB4C	GM16AH
BB4D	GM16AH
BB8D	GM16AH
BB8F	GM16AH
BBJ	VW9801
BC	FM138
BC	FM138SC
BCA	HO77
BCLA	HO81
BD	FM138
BD	FM138SC
BDA	FM136HD
BDGA	HO80
BDKA	HO82
BE	FM76HD
BE	GM16
BE	GM160
BE4C	GM16
BE4D	GM16
BE8D	GM16
BE8F	GM16
BED	GM16
BEE	GM16
BF	GM16
BF	GM160
BF4C	GM16
BFA	FM136HD
BFD	GM16
BG	GM16AF
BG	GM16AL
BG4C	GM16AF
BG4C	GM16AL
BG8D	GM16AF
BG8D	GM16AL
BG9D	GM20F
BGD	GM16AL
BGE	GM16AL
BGF	GM16AL
BGFA	HO80
BGHA	HO80
BGPD	GM20F
BGRA	HO80
BH9D	GM20F
BJE	HO69
BJFA	HO3001
BM	FM112
BMXA	HO69
BN	FM112
BO5	HO79
BOYA	HO72
BP	DA40
BP	FM18A
BR	FM112
BT	FM111
BU	FM113
BU	TO40B
BVGA	HO80
BVGA	HO82
BVLA	HO3001
BWAG	VW1502
BWEA	HO3001
BYBA	HO80
BZKA	HO81

Codes	Part #
C	FM75
C	GM18AH
C	GM35
C	HO61
C	HO67
C	SU11
C1A	HO69
C2	KM7HD
C2	VO13
C2	VO15
C2X17B17	HO80
C3	BMW22
C3	VO10
C34	KM7HD
C4	KM7HD
C51	BMW62
C51	BMW63
C6	SA4
C7	BMW17
C7X	HO79
C8	HO64
C8C	HO78
C8C12144	HO78
C8C121A4	HO78
C8K19	TO67
CA	FM136HD
CA	FM66HD
CA	HO56
CA	HO58
CA	HO78
CAO	HO69
CB	GM15AH
CB	GM18AH
CB	GM31
CB	GM31CW
CB4C	GM15AH
CB5C	GM15AH
CBD	GM15AH
CBE	GM15AH
CBF	GM15AH
CC	FM35
CC3P-AB	FM1261
CC3P-BB	FM1262
CC3Z-A	FM1261
CC3Z-B	FM1262
CE	FM66HD
CE	GM15
CE	GM15AF
CE	GM15S
CE	GM18A
CE	GM35
CE	GM35CW
CE3C	GM15
CE3C	GM15S
CE4C	GM15
CE4C	GM15AF
CED	GM15
CEE	GM15
CEF	GM15AF
CEGF	GM23
CF	GM15
CF	GM15AF
CF	GM15S
CF4C	GM15
CF4C	GM15AF
CF9C	GM15
CF9C	GM15AH
CF9C	GM15S

Codes	Part #
CFA	FM136HD
CFBF	GM15AH
CFD	GM15
CG	GM15AL
CG	GM15ALF
CG	GM18AL
CG	GM23
CG	GM33
CG	GM33CW
CG3C	GM15AL
CG3C	GM15ALF
CG5C	GM15
CG5E	GM15AL
CG6C	GM15
CG6F	GM15
CG8F	GM15
CG9D	GM19
CGAD	GM15
CGAE	GM15
CGBF	GM15
CGD	GM15AL
CGE6	GM15
CGF	GM15AL
CGP7	GM15
CJB	AU20
CJY	AU22
CK	GM15AL
CK	GM15ALF
CK	GM18AL
CK	GM23
CK	GM33
CK	GM33CW
CK8F	GM15AL
CM	FM122
CP	FM120
CP3	GM80
D	DA11HD
D	DA13HD
D	GM42
D19	BMW37
D2	KM7HD
D21	BMW13900
D6	SA4
D6A	GM18A
D7344	PCH59
D823910297	GM1441
D9	GM15
D984316	CR72
DA	DA11HD
DA	FM136HD
DB	DA11HD
DB	DA16HD
DB	FM112
DB	FM124
DB	GM15AH
DB	GM18AH
DB	GM31
DB	GM31CW
DB6D	GM18A
DB8D	GM18A
DB8F	GM18AH
DBAF	GM18AH
DBAF	GM31
DBCD	GM18A
DBCF	GM18A
DBCF	GM31
DBHC	GM31
DBLF	GM31

Codes	Part #
DBNF	GM31CW
DC	DA11HD
DC	FM112
DC	FM124
DC	GM35
DC	GM35CW
DC8F	GM18AH
DCAF	GM18AH
DCD	VW9800
DCLF	GM35
DCLF	GM35CW
DCNF	GM31CW
DCNF	GM35CW
DCS	AU20
DD	FM124
DE	FM66HD
DE	GM15AH
DE	GM18AH
DE	GM31
DE	GM31CW
DE5F	GM18A
DE6C	GM18AH
DE6D	GM18AH
DE6F	GM31
DE6F	GM33
DE8F	GM18A
DEAF	GM18A
DEBF	GM18A
DEGF	GM33
DELF	GM35
DF	FM124
DF	GM15
DF	GM15AF
DF	GM18A
DF	GM35
DF	GM35CW
DF5F	GM18A
DF5F	GM35
DF6F	GM18A
DF6F	GM35
DFAF	GM18A
DFLF	GM35
DG	GM15AL
DG	GM15ALF
DG	GM18AL
DG	GM33
DG	GM33CW
DG5C	GM18A
DG5C	GM33
DG5D	GM18A
DG5F	GM18AL
DG5F	GM33
DGAD	GM18A
DGAF	GM18AL
DGAF	GM33
DGAG	GM18AL
DGCF	GM18A
DGCF	GM33
DGCG	GM18A
DGCG	GM33
DGGF	GM33CW
DGGG	GM33
DGH	GM31
DGHF	GM33
DGHG	GM33
DGLF	GM33CW
DGPF	GM33CW
DH	FM124

Codes	Part #
DH	GM15AL
DH	GM15ALF
DH	GM18AL
DH	GM33
DH	GM33CW
DHDF	GM33CW
DHHF	GM33
DHHG	GM33
DHHG	GM33CW
DHPF	GM33
DHPF	GM33CW
DHPG	GM33CW
DK5E	GM18AL
DK5F	GM18AL
DK8F	GM18AL
DKAF	GM33
DKGF	GM33
DKHF	GM33
DKLF	GM33
DKNF	GM33CW
DKPF	GM33CW
DL	GM15
DL	GM15AF
DL	GM18A
DL	GM35
DL	GM35CW
DL5F	GM18A
DL8F	GM18A
DLLF	GM35
DLNF	GM35CW
DLPF	GM35CW
DLPH	GM33CW
DPS	AU23
DPT	AU23
DRD	AU23
DRN	AU23
DS	FM120
DTE	AU13908
DX	FM124
E	DA8A
E	FM64
E	GM15S
E	GM16
E	GM160
E	GM180A
E	GM18A
E	GM35
E	GM35CW
E	HO56
E	HO60
E	TO66
E0	DA8A
E07	BMW25
E1	DA11HD
E1	DA41
E11	BMW25
E11B	HO69
E168026376	BMW13900
E168026381	JA13906
E168026389	JA13906
E168026392	BMW13901
E168026394	AU13908
E168026395	AU13909
E168026396	BMW13902
E168026604	BMW13903
E18	BMW35
E1SP-AA	FM49
E2	HO80

Codes	Part #
E2FN	DA58
E2-P8F	HO80
E3	DA41
E4	KM7HD
E6	KM7HD
E7E	HO79
EA	DA28
EA	DA48
EA	FM136HD
EA	HO77
EB	DA13HD
EC	DA13HD
ECF	AU13908
ECRA	DA67
EDG	AU13908
EE	FM64Q
EE7VMO	CR65
EF	DA13HD
EGXA	FM9501
EH2	HO72
EH23A	HO72
EKC	AU22
EKD	AU22
EKX	AU23
EL	DA8A
ELA	DA8A
EM	DA8A
EMA	DA8A
EO	DA8A
EO7	BMW25
EOA	DA8A
EZZ	AU22
F	DA11HD
F	DA13HD
F	DA48A
F	DA48B
F	FM64
F	GM16
F	GM160
F	GM180A
F	GM18A
F	GM35CW
F	HO58
F1	DA85
F10	DA59
F10	DA61
F11	AU3
F11	DA61
F2	KM12BHD
F21	BMW32
F31	AU23
F35	AU13
F38	BMW13900
F38	BMW13903
F39	BMW13900
F3DP-BA	FM59
F3RP	FM80
F3RT	FM71H
F3RZ	FM80
F4	HO60
F4	HO61
F4A-1	FM75
F4D28	GM1991
F4DP-AA	FM71
F4DP-BA	FM71
F4DP-DA	FM71
F4DP-DB	FM71
F4DP-EA	FM59

Codes	Part #
F4DZ	FM61
F4DZ	FM61M
F4DZ-B	FM61M
F4DZ-C	FM61
F4OY	FM61R
F4OY-A	FM61R
F4RP	FM75
F4RZ	FM75
F4RZ-A	FM75
F5OP-AA	FM72C
F5RP	FM80
F6	DA61
F65	JA95
F68P-AA	FM71
F6DP-AA	FM59
F6DP-AA	FM59A
F6DZ	FM71
F6DZ-B	FM71
F88P-AA	FM71H
F88P-AB	FM71H
F88P-BA	FM71
F8DP-BB	FM59A
F8DZ	FM59A
F8DZ-BA	FM59A
F8OP-AB	FM72C
FA	DA28
FA	FM136HD
FA	GM73
FA	GM73C
FA	GM73CW
FA1	GM73
FA1B	GM73
FA2	GM73
FA2B	GM73
FA3	GM73
FA3B	GM73
FA4	GM73
FA4B	GM73
FAAB	GM73
FACB	GM73
FAFB	GM73CW
FAHB	GM73C
FANDK	DA48
FAS	AU22
FB	FM124
FB	GM73
FB	GM73C
FB	GM73CW
FB	JA4
FB	KM41
FB1	GM73
FB1B	GM73
FB2	GM73
FB2B	GM73
FB3	GM73
FB3B	GM73
FB4	GM73
FB4B	GM73
FB-6	HO66
FBAA	HO72
FBAB	GM73
FBCB	GM73
FBF	AU13908
FBFB	GM73CW
FBG	AU13909
FBKB	GM73CW
FBO	HO66
FBW-V13	VO23

Codes	Part #
FC	GM73
FC	GM73C
FC	GM73CW
FC1	GM73
FC1B	GM73
FCA	FM136HD
FCFB	GM73CW
FD	GM42
FD	GM42C
FD	GM42CW
FD2	GM42
FD2B	GM42
FD4B	GM42
FD6	GM42
FD6B	GM42
FD9	GM42
FD9B	GM42
FD9B	GM42C
FDA	FM136HD
FDAB	GM42
FDEB	GM42
FDHB	GM42C
FDHB	GM42CW
FDKB	GM42C
FDLB	GM42C
FDQB	GM42CW
FE	GM42
FE	GM42C
FE	GM42CW
FE	KM17
FE2	GM42
FE4	GM42
FE4B	GM42
FE6	GM42
FE9	GM42
FEA	FM68HD
FEA	HO77
FF	DA13HD
FF	DA28
FG	GM71
FG	GM71C
FG	GM71CW
FG2	GM71
FG5	GM71
FG9	GM71
FG9B	GM71
FGAB	GM71
FGHB	GM71C
FGHB	GM71CW
FGKB	GM71C
FGKB	GM71CW
FH	GM63
FH	GM63C
FH	GM63CW
FH5	GM63
FH5	GM63C
FJ	GM42
FJ	GM42C
FJ	GM42CW
FJ2	GM42
FJ2B	GM42
FJ4B	GM42
FJ9	GM42
FJ9B	GM42
FJAB	GM42
FJBB	GM42
FJHB	GM42C
FJHB	GM42CW

CONVERTER CODES

Codes	Part #
FK	DA48
FK	DA48B
FK	GM73
FK	GM73C
FK	GM73CW
FK1	GM73
FK1B	GM73
FK2	GM73
FK2B	GM73
FK3	GM73
FK3B	GM73
FKBB	GM73
FKEB	GM73
FKEB	GM73C
FL	GM71
FL	GM71C
FL	GM71CW
FL	VO30
FL4	GM71
FL4B	GM71
FL6	GM71
FL6B	GM71
FL8C	GM71
FL9	GM71
FL9B	GM71
FLAB	GM71C
FLDB	GM71
FLDB	GM71C
FLGB	GM71CW
FLHB	GM71C
FLHB	GM71CW
FLHC	GM71C
FLKE	GM94
FLKF	GM94
FLMB	GM71C
FLQB	GM71C
FLQB	GM71CW
FLTV	VO30
FLVV	VO30
FM	GM71
FM	GM71C
FM	GM71CW
FM	VO32
FM4	GM71
FM4	HO61
FM4B	GM71
FM5	GM71
FM7	GM71
FM8	GM71
FM8B	GM71
FM8C	GM71
FM9	GM71
FM9B	GM71
FMTV	VO32
FMVV	VO32
FNE2	DA58
FNE4	DA58
FNJ4	DA60
FNJ4	DA65
FNK2	DA64
FNK2	DA65
FNS4	FM4800
FS	FM58
FS	FM58L
FSHB	GM42C
FU13	FM65
FU31F	FM65
FU80A	FM65A

Codes	Part #
FU9A	FM65A
FU9A	FM84
FU9B	DA53
FU9B	FM65
FU9B	FM85
FU9F	FM84
FUL	AU13908
FUN	AU13908
FUPF	FM84
FX	FM58
FX	FM58L
FXPB	GM73C
FY	FM58
FY	FM58L
FY	GM63
FY	GM63C
FY	GM63CW
FY4A	GM63C
FY4B	GM63
FY4B	GM63C
FY5	GM63
FY5	GM63C
FY5B	GM63
FY5B	GM63C
FY6B	GM63
FY6B	GM63C
FY7	GM63
FY7	GM63C
FY8C	GM63
FY9	GM63
FY9B	GM63
FY9B	GM63C
FYAB	GM63
FYAB	GM63C
FYHB	GM63C
FYHB	GM63CW
FZ	GM73
FZ	GM73C
FZ	GM73CW
FZ1	GM73
FZ1B	GM73
FZ2	GM73
FZ2B	GM73
FZ3	GM73
FZ3B	GM73
FZ9	GM73
FZBB	GM73
FZBB	GM73C
FZCB	GM73C
FZEB	GM73C
FZEB	GM73CW
FZFB	GM73C
FZFB	GM73CW
FZPB	GM73C
FZPB	GM73CW
FZRB	GM73
FZRB	GM73C
FZRB	GM73CW
G	AU2
G	DA13HD
G	DA14
G	DA48
G	DA8
G	FM64L
G	GM16AF
G	GM18AL
G	GM33CW
G	VO10

Codes	Part #
G	VW14
G29	AU13908
G31	AU21
G4	HO63
G401	FM85
G549	CR91
G549	CR94
G7	J18
G7	KM13
G7	KM9
G72	BMW55
G85	BMW95A
GA	FM76HD
GA	HO77
GAK	AU24
GB	DA42
GB	DA8
GB	FM58
GB	FM58L
GD	DA42
GE	DA42
GEG	VW9802
GF	DA42
GF	DA8
GF01	FM85
GFU13F	FM65
GG	FM64Q
GH	DA8
GHA	DA8
GI	DA8
GK	DA8
GKA	DA8
GL	DA8
GLA	DA8
GLLCXT	HO3000
GMA	HO3001
GO4	HO66
GP3	GM80
GPLA	HO81
GPPA	HO81
GR	DA8
GT	DA8B
GX	DA8
GXA	DA8
GY	DA8
GYA	DA8
H	DA28
H	DA48
H	FM64
H	FM89
H	FM89L
H	GM33CW
H	GM63
H1	DA39
H1	DA46
H13	HO56
H15	HO56
H16	HO56
H16C	HO56
H2	DA39
H2	HO3002
H2	KM11HD
H3	JA3
H4	DA48
H4	KM25
H4	KM7HD
H44	PCH54A
H5	BMW19

Codes	Part #
H5	DA39
H56	FM126DS
H57	GM24-6
H6	DA39
H7	DA75
HA	GM61CHD
HA	GM61C-WHD
HA	GM61HD
HA1	GM61HD
HAM	HO56
HB	GM61CHD
HB	GM61C-WHD
HB	GM61HD
HB1	GM61HD
HB2	GM61HD
HBCD	GM61CHD
HBFD	GM58C-WHD
HBFD	GM61C-WHD
HBHD	GM61CHD
HC	DA46
HCA	FM136HD
HD	GM58CHD
HD	GM58C-WHD
HD	GM58HD
HD2	GM58HD
HE	DA46
HE	GM58CHD
HE	GM58C-WHD
HE	GM58HD
HE9D	GM58HD
HEHD	GM58CHD
HFC	FM68HD
HH	DA46
HI	DA46
HI	HO81
HI3	HO56
HI6	HO56
HJ	GM58CHD
HJ	GM58C-WHD
HJ	GM58HD
HJ	KM12HD
HJ2	GM58HD
HJAD	GM58HD
HJO	GM58HD
HK	GM61CHD
HK	GM61C-WHD
HK	GM61HD
HK	KM12BHD
HK	KM12HD
HK1	GM61HD
HK2	HO56
HK3	HO56
HL	GM58CHD
HL9D	GM58HD
HLHD	GM58CHD
HLHD	GM59CHD
HLQD	GM58C-WHD
HQ	KM12BHD
HX15BA	HO77

Codes	Part #
HY	GM58HD
HY	GM59CHD
HY	GM59C-WHD
HY9	GM61HD
HY9D	GM58HD
HYA6LF1ZA	KM34
HYHD	GM59CHD
HYHD	GM59C-WHD
HYQD	GM58C-WHD
HYQD	GM59C-WHD
HZ	GM61CHD
HZ	GM61C-WHD
HZ	GM61HD
HZ2	GM61HD
HZAD	GM61HD
HZHD	GM61CHD
HZO	GM58HD
I	HO72
I02	TO8902
I1	BMW11
I7	DA75
ICCB	GM92
IF	KM12BHD
IF	KM12HD
IL5AC	FM134HD
IQ	KM12BHD
IQ	KM12HD
IR6	GM19
IS	TO59
J	DA60
J	GM42
J	HO61
J	HO64
J	HO66
J	HO79
J	TO22
J	VW9800
J08	TO22
J1	DA56
J10	DA61
J11	DA61
J11	DA62
J14	DA62
J17	DA62
J2	DA56
J28	AU21
J28	BMW62
J35	JA13907
J4	DA60
J4	DA64
J4	DA65
J4	JA4
J4	VW9800
J65	JA95A
J8	JA4
J8	VO26
J85	BMW95A
J9	JA7
JA10	JA13905
JA11	JA13906
JA12	JA13907
JA13	JA13906
JB	KM23
JB4	HO69
JBRA	KM23
JC7	VW9800
JC7	VW9801
JCXB	GM55
JF1	DA20
JFTM	GM51
JJ	FM64Q
JMBX	GM10404
JMBX	GM10405
JMDZ	GM10406
JO8	TO22
JO8	VO22
JP	VW9800
JP23	VW9802
JP-57344-01	VW59
JR10	DA24
JR11	DA27
JR2VPX	CR70X
JR8	DA21
JSFM	GM50
JSMF	GM50
JTFM	GM51
JXFM	GM52
JZFM	GM53
K	DA48B
K	GM33CW
K	HO63
K	HO80
K	VW13
K	VW14
K1	HO63
K1	HO65
K10	VO27
K2	BMW24
K2	DA53
K2	DA64
K2	HO65
K28	AU11
K3	DA55B
K3	HO65
K35	JA13906
K36	AU22
K4	HO65
K7	JA5
K7	KM10HD
K73	AU13
K8	BMW16
K9C30	TO53LS
KAP	DA67
KC18D	TO47
KC7JP23	VW9802
KE15N	TO18C
KF	DA48
KF	DA48B
KF	KM12BHD
KF	KM12HD
KF1	DA20
KF13D	TO40B
KH	KM12BHD
KH	KM12HD
KJ	DA48
KJ	KM12BHD
KJ	KM12HD
KJ08	DA48
KO	DA48B
KU	KM12BHD
KU	KM12HD
KV	KM12BHD
KV	KM12HD
L	DA14
L	FM64L
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L	GM180A
L	GM18A
L	GM35
L	GM35CW
L	HO66
L	HO74
L	TO15701
L	TO44
L	TO55
L	TO55A
L	VO24
L1	BMW11
L1	DA16A
L1	KM14
L15	HO64
L16	HO64
L19	BMW37
L28N121	DA26
L31	BMW13900
L35	BMW13902
L4	HO64
L5	HO62
L51	BMW13904
L62	BMW95
L65	BMW95
L7	GM16AF
L7	GM16AL
L904A	FM9502
LB	KM17
LB	KM28M
LB	TO15701
LBCA	VW18
LC	KM28M
LCCA	VW18
LCDC	VW20A
LCDD	VW20A
LE	KM17
LE	KM28M
LF	DA42L
LF189	DA42L
LF229	DA42L
LI	DA16A
LJ	HO79
LK	KM14
LK	KM14B
LKQ85	GM92
LS8	FM138
M	FM64
M	HO61
M	HO65
M	HO66
M	HO77
M	VO18
M19	BMW42
M1WA	HO71
M24A	HO69
M28	AU11
M4	BMW19
M4	HO66
M4RA	HO69
M4TA	HO69
M5DA	HO68
M5HA	HO68
M6	SA7
M6HA	HO77
M6HA	HO79
M7	GM16AF
M7	GM16AL
M7WA	HO80
M7ZA	HO79
MAXA	HO77
MAXA	HO78
MCTA	HO81
MCVA	HO81
MDKA	HO82
MDLA	HO69
MDMA	HO69
MDPA	HO82
MDRA	HO82
MDWA	HO66
MDWA	HO77
MF	J30
MGHA	HO80
MJBA	HO3002
MJBA	HO82
MKZA	HO81
ML4A	HO64
MM	KM16HD
MOYA	HO72
MP1A	HO77
MP7A	HO69
MPCA	HO3003
MPJA	HO77
MPOA	HO72
MPRA	HO66
MPSA	HO64
MPWA	HO66
MPWA	HO71
MPXA	HO66
MPYA	HO68
MPZA	HO79
MR9A	HO74
MRMA	HO81
MRVA	HO81
MT	KM16HD
MY8A	HO65
MYBA	HO66
MZHA	HO81
MZKA	HO81
N	DA34
N	DA48
N	FM18
N	FM64L
N	HO62
N	VW15
N0	HO55
N19	AU22
N19	SA8A
N2	BMW11
N22	AU21
N22	AU22
N24	AU20
N28	AU22
N3	VO13
N3	VO15
N33	BMW43
N33	BMW62
N35	BMW13901
NA	HO81
NC	N33G04
ND	HO81

CONVERTER CODES

Codes	Part #
ND	N33G05
NE	DA34
NEO	DA34
NG	DA34
NO	HO55
NR	KM21
O	DA28
O	FM64
O	FM64L
O21	BMW51
O21	BMW52
O3	TO59
O7	BMW25
O7	TO33
OA	DA48B
OACA	VW17
OADB	VW20
OD	VO21
ODM	VO18
ODM	VO19
ODM	VO21
ODS	VO18
ODS	VO19
ODS	VO21
OE26M	TO59
OH	DA8
OI	DA8
OL	TO44
OL14N	TO75
OMO6J	TO75L
ON	HO55
OP3	GM13
OT	DA8
OT	DA8B
OU	DA8B
OX1	HO80
OX17C6	HO80
P	DA13HD
P	DA28
P	FM17
P	HO65
P	TO4701
P04736250AB	CR73
P04736872AB	CR0923
P04736893AB	CR0621
P04752603AA	CR7801
P1	BMW21
P1	HO64
P1	KM15
P1	KM15B
P141	FM83
P2	DA59
P2	DA61
P2	KM11HD
P3	GM80
P32	JA13905
P35	AU13908
P36A	HO3000
P36A	HO3001
P4	HO55
P5	HO69
P52119671AD	CR7201
P52119671AE	CR7202
P56	AU25
P56	HO69
P5A	HO68
P5G	HO68
P5M	HO77
P5N	HO66
P5PM	HO77
P6	DA61
P6	GM16AF
P6	GM16AL
P6	GM1A
P62	JA95
P72	HO69
P82	FM3301
P8A	HO79
P8C	HO79
P8F	HO80
P9	KM17
P9	KM28
P90	BMW12901
PAA	HO78
PAA	HO79
PCA	HO78
PEA	HO78
PEF	HO80
PFW	HO79
PG	HO80
PGC	HO80
PGK	HO80
PH4	HO61
PH4.5	HO61
PI	HO64
PL1	HO71
PL5	HO62
PL5X	HO62
PLM	HO68
PLM	HO69
PN	HO81
PN276580	HO81
PN276581	HO81
PNA	HO81
PO	HO79
PO4736582AD	CR2
PO4736830AB	CR86
PO4736893AB	CR0621
POG	HO79
PP	HO72
PP	HO81
PPF	HO81
PR	HO74
PR018	DA42
PT4	BMW19
PT5	BMW23
PT7A	BMW16
PVJ	HO82
PW4	HO71
PW5	HO71
PW7	HO71
PWA	HO71
PX4B	HO66
PX4B	HO77
PXL5	HO62
PY8A	HO65
Q	AU2
Q	DA13HD
q	HO72
q	HO78
Q	VW14
Q1	KM12BHD
Q1	KM12HD
Q15	SA8
Q17	FM87
Q17F	FM82
Q17F	FM86
Q17FP	FM87
Q17G	FM86
Q17PF	FM87
Q2	DA26
Q2	VO28
Q2	VO31
Q20	DA17HD
Q20	JA13906
Q20E-G	DA18
Q20F	DA17F
Q20G	DA17A
Q22G	FM86
Q25	FM83
Q25E	DA18
Q25F	DA17A
Q25F	DA18
Q25F	DA30
Q25G	DA18
Q29	JA13906
Q3	VO28
Q32	JA13906
Q35	AU13909
Q45	AU23
Q56	AU24
Q61X	AU26
Q6DB	VW20
QACA	VW17
QACD	VW20
QADB	VW20
QADC	VW17
QADC	VW20
QADD	VW21
QBAA	VW1503
QBCA	VW17
QBDB	VW20
QBDC	VW20
QBDD	VW20
QBDD	VW21
QBDJ	VW21
QCCR	VW17
QCDC	VW20
QCDD	VW21
QCDR	VW20
QCDT	VW20
QCDV	VW20
QCDV	VW21
QDDJ	VW21
QDDT	VW20
QDDT	VW21
QEAA	VW1503
QHAA	VW1503
R	FM101
R	FM64L
R	HO59
R	HO68
R	HO71
R	TO33
R	TO3701
R1	BMW11
R1	HO3002
R13	BMW32
R18	HO67
R2	BMW11
R2	BMW17
R290	TO33
R3	BMW11
R35	AU3
R35	DA15
R35B	DA15LS
R35B	FM65
R35B	FM65A
R35PC	FM65
R4	BMW23
R40B	DA15LS
R40B	FM65
R40B	FM65A
R40PB	FM65
R40PD	FM65
R7	BMW17
RA	DA67
RA	HO72
RA	HO81
RA	KM26
RAA	HO81
RAC	HO81
RAD	HO81
RBB	HO81
RBJ	HO81
RD	HO82
RDA	HO80
RDAA	FM68HD
RDJ	HO82
RDJRD	HO82
RF	KM26L
RG	KM26
RGL	HO80
RGLH	HO80
RGLY	HO3001
RGM	HO80
RGMY	HO3001
RH	KM26L
RJ	HO3002
RJ	HO82
RJA	HO3002
RJE	HO3001
RL8	DA13HD
RM	KM12BHD
RN	HO3003
RNA	HO3003
RNN	HO3003
RO	HO67
RO	SU11
RPP	HO81
RWC	HO3001
RWC5	HO3001
RYP	HO3001
S	DA37
S	TO12
S1	BMW11
S15	HO64
S16	HO64
S2	DA37
S2	KM10HD
S3	DA37
S38	BMW62
S4	FM4800
S4	KM10HD
S4XA	HO66
S5	HO64
SA	GM17
SA0	GM17
SA1	GM25
SA7	AU11
SA8	AU13
SAO	GM17

Codes	Part #
SDAA	FM68HD
SDMA	HO69
SE	GM24
SE9P	GM24
SE9S	BMW29
SEHS	BMW29
SELP	GM24
SF	GM24
SF	GM85
SF1P	FM90
SF1P-AH	FM90
SF6X	GM24
SFHE	GM85
SFHT	GM85
SFL7	GM85
SFLP	GM24
SFLT	GM85
SG9S	BMW29LS
SGHB	GM24-6
SGHH	GM24-6
SGHR	GM24-6
SGHS	BMW29LS
SJ	GM24
SJ9K	GM24
SJ9S	BMW29
SJAJ	GM25
SJCJ	GM25
SJHR	GM24-6H
SJHS	BMW29
SJHS	GM24
SJLP	GM24
SJLS	BMW29
SLF7	GM85
SLXA	HO69
SP	GM83
SP1U	GM83
SP1V	GM83
SP7A	HO69
SPCA	HO3003
SPIU	GM83
SPIV	GM83
SPLT	GM85
SS	FM64
ST1	GM80
SZHS	BMW29
T	DA13HD
T	FM64L
T	HO72
T	HO74
T1	DA56
T2	DA56
T26	BMW32
T27	BMW42
T3	DA80
T4	DA70
T45	AU13
T45	AU20
T51	BMW61
T54	KM12BHD
T54	KM12HD
T7	DA80
T7	JA3
T8	BMW17
T84	AU14
TC	KM39
TC	KM49
TF	KM40
TG	KM39A

Codes	Part #
TGO3D	TO47
TH	KM39A
TLBX	GM90
TLCX	GM90
TLTX	GM90
TMAX	GM92
TMBV	GM54
TMBX	GM92
TRN45	DA42
TT	FM64Q
TWBX	GM92
TXBX	GM90
U	DA13HD
U	FM64
U	FM64L
U	HO79
U	TO66
U1	BMW11
U15	HO79
U2	BMW12
U23	BMW32
U23	BMW80
U27	BMW37
U3	BMW22
U3	VO10
U32	BMW80
U38	BMW12901
U4	BMW12
UE	BMW22
UE	VO10
V	FM102
V2	BMW12
V3	BMW22
V4	BMW12
V6	KM12BHD
V6	KM12HD
V7	KM13
V7	KM9
V73	BMW95
VJCK	GM55
VJCX	GM55
VK09N	TO67
W	FM64L
W	VW15
W2	BMW11
W2	BMW17
W2	KM11HD
W9	KM31H
WW	FM64R
WW9	FM1603
WW9	FM160L
WW9	FM160M
X	FM101
X4	KM10HD
X4	KM11HD
X64	AU26
XEA7	CR65
XJ25N	TO69B
XL2AA	FM68HD
XW4P	FM138
XW4P	FM138-8
XW4P-AA	FM138-8
XW4P-AB	FM138-8
XW4P-AD	FM138
XW4P-AD	FM138-8
XW4P-AD	FM138SC
XW4P-BA	FM138
XW4P-BC	FM138

Codes	Part #
XW4P-BC	FM138SC
XW4P-BD	FM138
XW4P-BD	FM138SC
XX	FM64R
Y	DA31L
Y	HO71
Y	TO73
Y	VW13
Y/030417	TO73
Y12	BMW51
Y13	DA31L
Y4	HO68
Y51	TO68
Y51	TO77
Y51	TO78
Y61	AU13
Y8	HO65
YB	KM25
YB-K	KM25
YC	KM25
YCA	HO77
YE	KM29
YL2AB	FM134HD
YL2BA	FM134HD
YO	TO79
YOP	TO79L
Z	FM101
Z1	JA3
Z3RZ-A	FM80
Z6	JA3
Z74	BMW95
ZA	KM34
ZB	DA14
ZF14B	JA3
ZF25	J18
ZF33	SA4
ZF35	JA5
ZF38	SA7
ZZ	FM64R

Anatomy of a Transmission

Oil Flow in the Pump-PR-Converter-Cooler Lube Circuits

This tech article originally appeared in Sonnax Transmission Specialties Catalog Vol. 6, and can also be found online in the Sonnax technical library at www.sonnax.com.

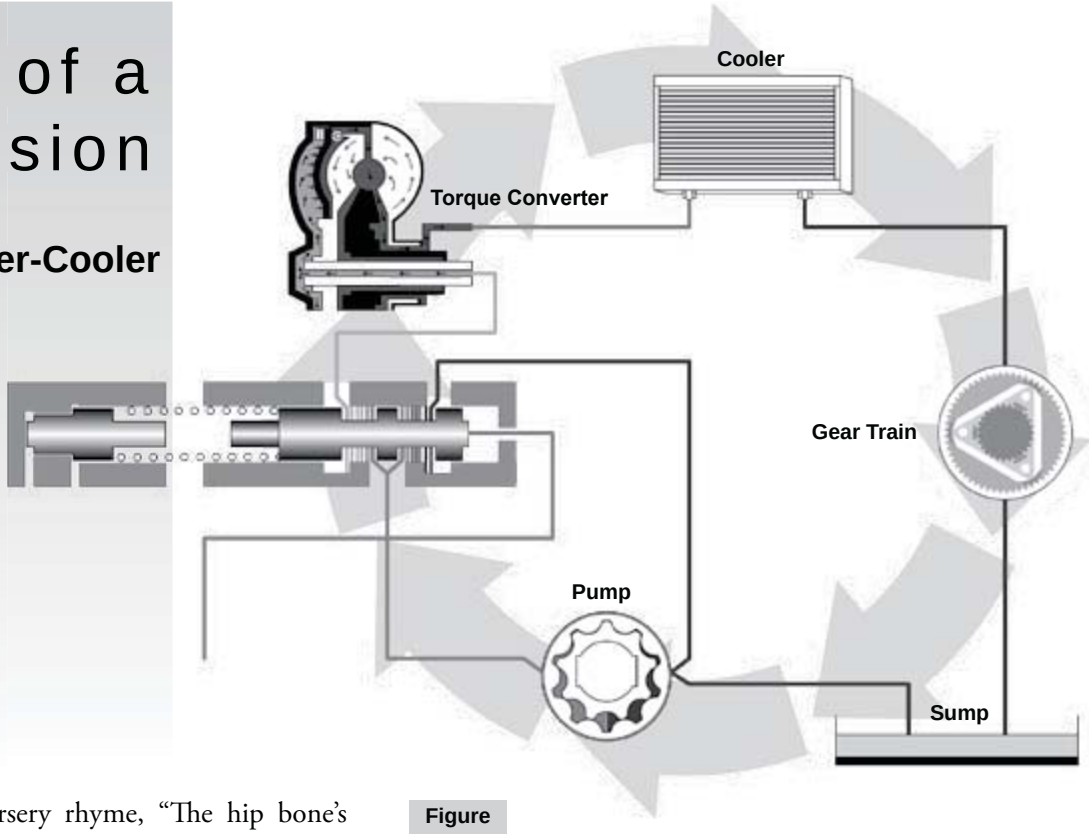


Figure 1

The pump/pressure regulator valve and converter charge/lube oil follow in sequence and are connected in series.

A change in any one of these areas has a direct consequence in others.

Remember the old nursery rhyme, "The hip bone's connected to the thigh bone, the thigh bone's connected to the knee bone…?"

Well, it's the same in a transmission, only the tune goes, "The pump's connected to the PR valve, the PR valve's connected to the torque converter, the torque converter's connected to the cooler, the cooler's connected to the lubrication circuit…" It's not quite as catchy as the nursery rhyme, but…

Understanding the connection between transmission components is critical when building a healthy unit or diagnosing a problem one.

The pump/pressure regulator valve and converter charge/lube oil follow in sequence and are literally connected in series (**Figure 1**). A change in any one of these areas has a direct consequence in others. Here we will dig into how these systems are connected and how improved Sonnax parts keep the series from breaking down.

The pressure regulator (PR) valve is the central player in this series. A hydraulic pump is capable of making tremendous amounts of oil pressure. The PR valve limits or regulates pressures to the common 50-250 psi range seen in transmissions. The range of regulated line pressures is determined by a combination of spring and oil pressure forces at both ends of the PR valve. Typically the PR spring and boost valves push the PR valve in one direction, and balance pressure opposes or pushes the valve in the other direction into its regulating position. At start-up, the PR moves into its regulating position when there is enough oil pressure on the balance area(s) of the valve to overcome spring (and typically boost valve) forces. Once the pump creates enough line pressure to move the pressure regulator valve into its regulating position, the PR valve then directs excess pump volume to exhaust or back to the intake/suction side of the pump.

Regulated line pressure is the amount of balance oil pressure required to move the PR valve against opposing forces and into its regulating position. This is true whether the PR is a simple valve with spring and boost valve or a more complex type with multiple reaction and balance areas at both ends of the valve. Here we will refer to the PR as being "in balance" when there is enough pressure to keep the PR valve in its regulating position. We will refer to it as "out of balance" when there is not enough oil pressure to keep the PR valve in its regulating position.

How PR Valves Control Oil Flow to Converters

In many transmissions, the PR valve has another, less-understood function. The main line pressure regulator valve also controls the volume of oil that is fed to the torque converter: This, in turn, has a direct effect on converter release/fill pressure, cooling, lubrication and, in some cases, TCC apply pressure. In controlling converter feed, the PR valve is a type of priority valve. That is, it gives more priority to line pressure and less priority to converter/lube pressure. While there are some units which are exceptions to this, the majority of common transmissions have either the converter fed directly from the PR valve, or the flow to the converter controlled by the PR valve.

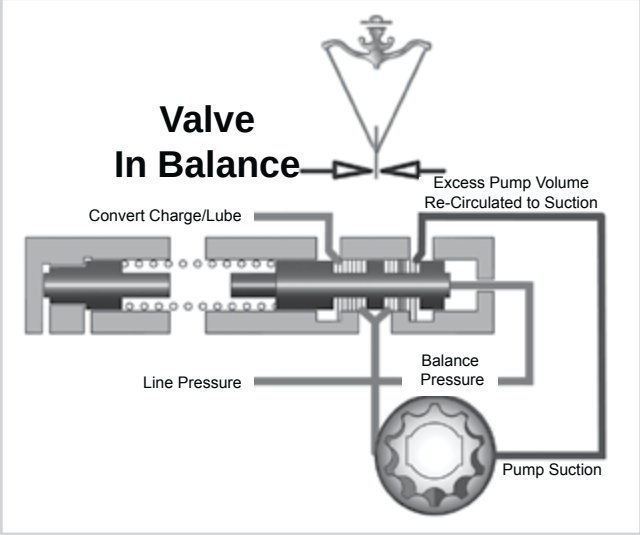
Figures 2 and 3 illustrate a simple main line pressure regulator valve in two positions: in balance with converter feed open (**Figure 2**) and out of balance with converter feed restricted (**Figure 3**). Regardless of the valve configuration, the concept of in balance and out of balance applies to all types of main line pressure regulators that control converter charge. The key to remember is that for the PR valve to remain in balance (with the converter circuit open), the forces at both ends of the valve must be near equal. If the PR valve stays out of balance for extended amounts of time, converter/lube oil will be restricted.

Once this critical threshold is crossed and the PR valve is out of balance for any length of time, everything falls apart (the torque converter and/or transmission).

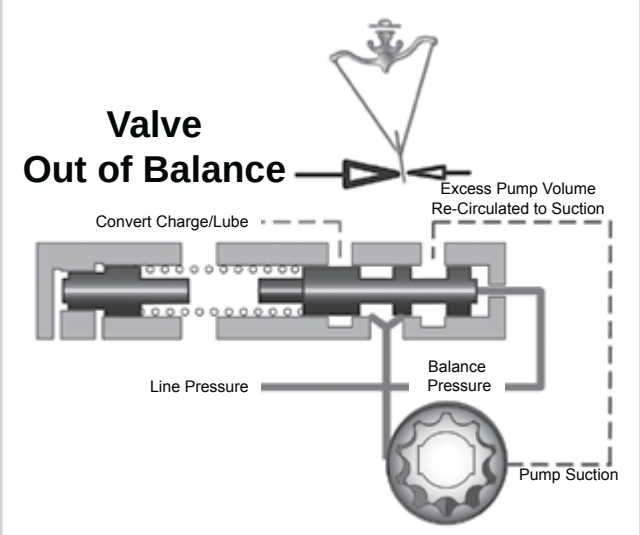
An example of how the PR valve controls converter/lube oil can be seen in the graph (**Figure 4**) showing line pressure and cooler flow during a shift.

One thing we have all seen while pressure testing is that slight needle twitch or momentary pressure drop when shifting. If you watch line pressure *and* cooler flow at the same time, when line pressure drops, you will see a corresponding change in cooler flow. This is because the pressure drop makes it all the way back to the balance end of the PR valve, and the forces at the other end of the PR valve overcome the reduced balance/line oil pressure and the PR valve moves out of balance. This restricts converter charge and the oil being re-circulated to the intake side of the pump. Converter charge is restricted, and priority is given to line pressure until it returns to the level that is sufficient to move the PR valve back to its in-balance regulating position. When everything is healthy and normal, this happens in an instant and is the way the system is supposed to work. Problems begin when the PR valve stays out of balance for extended periods of time.

The PR valve is in its "normal" regulating position, what we will refer to here as "in balance." In this position, the converter charge/lube oil is not restricted, and excess pump volume is redirected to the suction side of the pump. **Figure 2**



Here the PR valve moved over to the right. In this position, converter charge/lube oil and the oil re-circulated to the suction side of the pump are restricted and at times completely cut off. This is what we call "out of balance." **Figure 3**



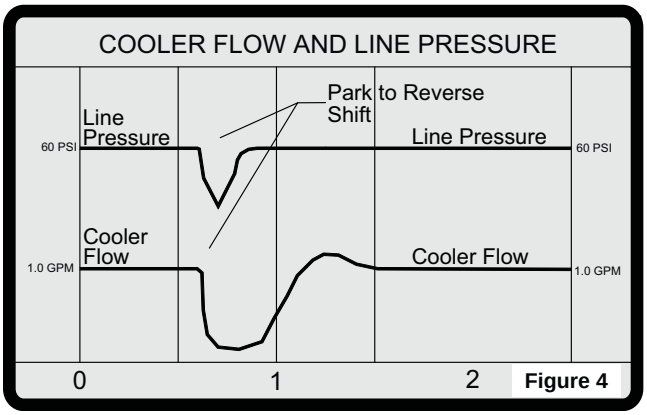


Figure 4

The priority valve characteristic means that if the PR valve is near that critical balance threshold, converter charge and lube oil are restricted. In effect, it's choking off the oil flow, ultimately leading to converter overheating, TCC slip or lube failure in the transmission.

Problems at either end of the PR valve can put it out of balance. One end of the PR valve can have too much spring or boost pressure, putting extra load on the pump (**Figure 5**).

At the other end, there may not be enough balance pressure due to leaks or a weak pump (**Figure 6**).

Examples of Excessive Spring or Boost Pressure — **Figure 5**

- RWD Chrysler/E4OD and others, too strong a PR spring or over-adjusted.
- 4L80-E and others, worn boost valve, cross leaks causing high reverse line pressure.
- Any unit in fail safe with max EPC boost pressures.
- 4L80-E, with too low idle and high EPC amps.

Examples of Low Balance Pressure

Figure 6

- 400/200C, worn PR bore.
- CD4E, PR bore wear.
- 4L80-E, PR end plug leak.
- Any unit with weak/worn pump or excessive internal leaks.

PR Valves & Pump Output

Picture a diesel truck lugging a load up a long incline: RPMs are low and desired line pressure is high. If pump output cannot maintain line pressure, the PR valve will move out of balance. Remember, the PR gives priority to line pressure, so it is conceivable under these circumstances to have near normal line pressure (and clutch holding capacity), but little or no cooler/lube flow due to the PR being out of balance. Imagine watching cooler flow drop off to nothing right at this critical time!

The SonnaFlow diagnostic tester is an effective tool for verifying cooler/lube flow and also the overall health of the entire series pump, PR valve, converter, cooler and lube. **See page 16 for details.**

I know you have seen the results – another set of melted planets, that mysterious black ring on the front of the converter, or the converter paint burned and peeling off. Or, how about the commercial unit that spends a lot of time idling in gear? Usually the most demanding time for a pump is hot, at idle (when RPMs are lower), in reverse when the desired pressure is higher. At this point, relative load on the pump is at its highest and the PR valve is often out of balance. Converter release/fill oil flowing through the converter is required to keep the TCC piston away from the front cover. An out-of-balance PR valve means little or no flow inside the converter, allowing the TCC piston to drag against the front cover leading to idle surging, engine stall or glazed TCC friction material. Once glazed or overheated, the friction lining's ability to hold against engine torque is reduced.

Whether a low 60 psi at idle or 160 psi under load, the specific line pressure is not as significant as the pump's ability to maintain that line pressure and keep the PR valve in balance in its regulating position. While this applies both to vane- and gear-style pumps, vane-style pumps are variable displacement and can increase their volume to maintain line pressure. Gerotor, or gear- and-crescent-type pumps, are more of a concern because they are fixed displacement and have lower output at low RPM and idle speeds.

The pump's ability to maintain desired line pressure and keep the PR valve in balance also has variables. You can have a good pump, but leaks in other oil circuits inside the transmission will consume oil pump volume and reduce the pump's ability to create pressure. On the other hand, no internal leaks plus a worn or inefficient pump will exhibit the same problem maintaining line pressure. Think in terms of an air compressor volume/CFM and air tools. The compressor's ability to maintain pressure is related to how many air tools you run at the same time. Too many air tools and your compressor will not have enough CFM (volume) to maintain pressure, and air pressure will drop below its normal range.

Due to fuel efficiency concerns, the typical transmission pump does not have much reserve capacity. Pump volume is needed to maintain pressure: Pressure is needed to keep the PR valve in balance. Internal leaks throughout the transmission waste pump volume. All those little leaks which build up over time end up consuming available pump volume and reducing the pump's ability to build/maintain line pressure, keeping the PR valve in balance. Some approaches attempt to compensate for wear by recalibrating with springs and enlarging orifices with drill bits, etc. This is only a temporary fix and does not address the root causes of wear or compensate for continued internal leakage. As you look through the Sonnax transmission parts catalog, you will see the majority of the parts reduce internal leakage. All the O-ringed sleeves and end plugs, valve bore repairs, oversized valves and precision bushings work in concert to minimize internal

oil leaks. This not only alleviates symptoms related to the part, but also has the advantage of conserving pump volume.

Line-to-Lube Modification

To line-to-lube or not to line-to-lube, that is the question! Line-to-lube modification is adding an oil path between the line pressure and converter feed circuits, kind of bypassing the PR valve, so even if the PR valve is out of balance, there is always an oil path for oil to enter the converter feed circuit. So why don't manufacturers build line-to-lube into the transmission? In fact, many do! On the 4L60-E it's that little flat on the PR valve land. Some other units feed through a designed-in orifice or slot in a gasket. Can you drill your own line-to-lube passage? Yes, but all too often the resulting hole is too large and allows too much oil to the converter, leading to over pressurizing, converter drainback and customer complaints. The patented Sonnax PR valves shown in **Figure 7** have an internal line-to lube passage and also feature an anti-drainback valve that prevents converter drainback when the vehicle is shut off.

The converter hub/pump bushing deserves special attention. Excessive converter bushing clearance causes pump noise, wear and reduced pump efficiency. In addition to supporting one end of the bulky converter and keeping the inner pump gear on center, the hub/pump bushing helps prevent converter oil pressure from bleeding off and exhausting through the front seal drainback hole. This is a common issue with AXODE, AX4N and Chrysler units.

Figure 8

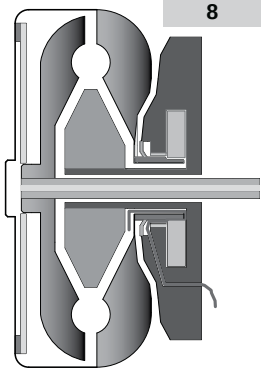


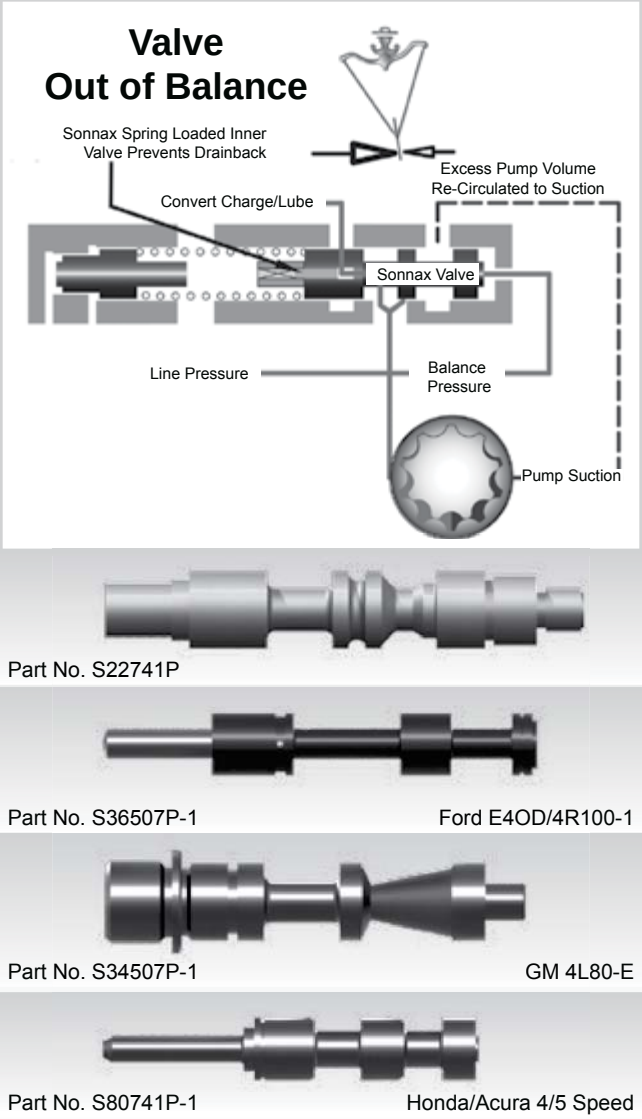
Figure 8 shows a cross section of a typical torque converter with pump and shows the path converter oil can take from inside the converter through the pump bushing to exhaust. Excessive converter oil flow past the converter hub bushing contributes to front seal leaks and allows converter oil pressure a direct path to exhaust. This can lower converter/lube pressure and, in some cases, TCC apply pressure.

This is one reason why some manufacturers have moved toward putting a seal between the inner pump gear and the converter hub (4R44E and others), or between the stator tube and inside of the converter hub (48RE). These features help keep pump oil in the pump and converter oil in the converter. As an example of how excess clearance can get us in trouble, consider a 2" diameter converter hub with an extra .003" hub-to-bushing clearance. The area of the extra .003" clearance has essentially the same area as a .100" hole, allowing converter pressure to bleed to exhaust. While there are other factors to consider with this example, a .100" hole is a lot of leak to overcome.

When dealing with any transmission, keep in mind the connection between the components discussed here and how checking cooler flow gives insight not just to the cooler and lube, but the whole series all the way back to the PR valve and pump. When checking parts and clearances, this knowledge will help you understand the combined effect can be when things loosen up and allow internal leakage. ◄

Here the PR valve is in the "out of balance" position, however with the Sonnax line-to-lube valve, oil continues to flow into the converter charge/lube circuit through the internal passage inside the valve. Drain back is prevented with an internal check valve.

Figure 7



Nobody knows transmissions like Sonnax!

Sonnax transmission parts combine the latest in automotive technology with outstanding reliability, performanceand durability.

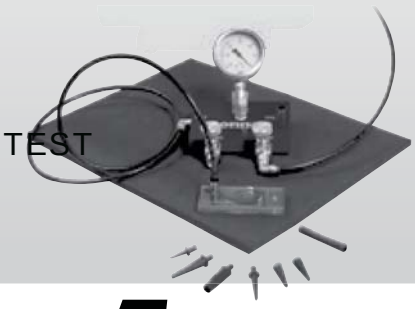
Testing & Reaming **are the keys to proper valve body restoration.**

Sonnax vacuum test stand.

A worn valve or valve body bore can result in incorrect pressures in the transmission, which may lead to poor performance or failure of the transmission. Proper vacuum testing equipment is required to determine if a valve or bore is worn, or to make sure a valve repair has been performed correctly. Sonnax offers a vacuum test stand kit to help fill this need.

Whether diagnosing a problem valve body or verifying the remanufacturing process,

the Sonnax vacuum test stand kit is an invaluable tool.



Part No. T-VACTEST

Reaming worn bores with the patented **Sonnax VB-FIX reaming fixture** is the only way to ensure quality results.

The patented VB-FIX provides an external, rigid pilot bore for a reamer and guide pin, allowing the fixture to be used on multiple valve bodies and valve bores.

This fixture, along with specially designed Sonnax tool kits and parts, allows otherwise unrepairable valve bodies to be restored.

Part No. T-VB-FIX

SONNAFLOW®

Part No. T-FM-01K

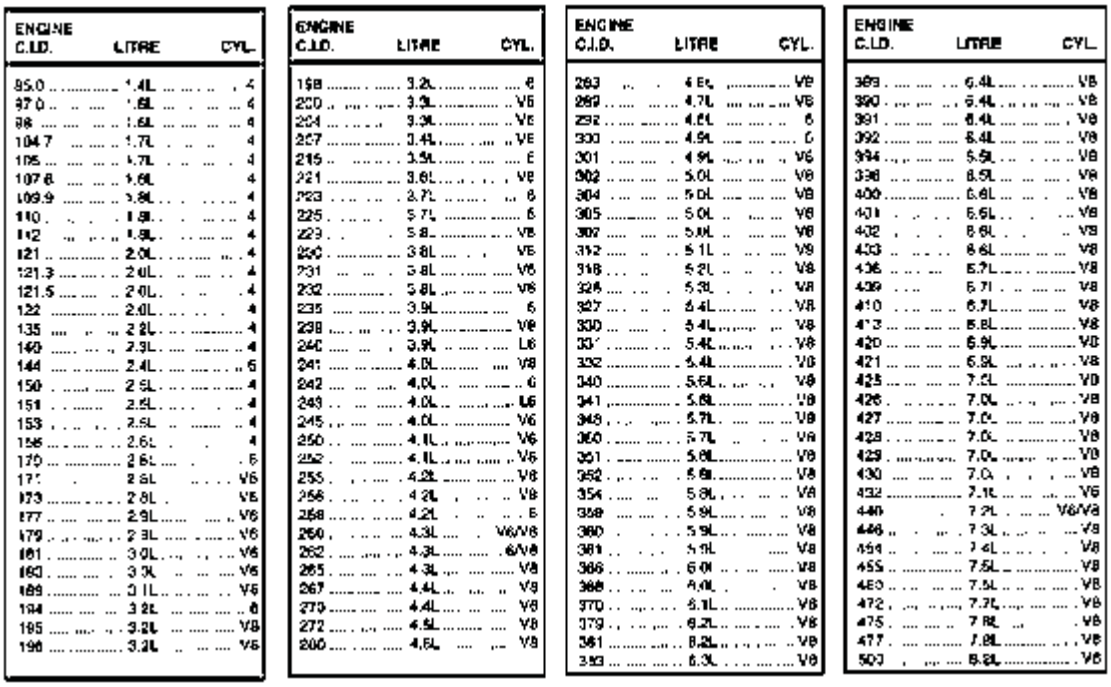
Verify adequate cooler/lube flow during actual road testing!

The old method of checking cooler flow by removing the return line and measuring flow into a bucket doesn't tell you anything about what happens under normal driving conditions. The Sonnax Sonnaflow is a simple way anyone can check cooler flow under all driving conditions.

- **Measures ATF flow in gallons per minute (GPM) while driving**
- **Quickly and easily installs into any vehicle**
- **Includes tech manual and charts showing cooler flow parameters for most common transmissions**

The Sonnaflow kit includes a sensor that is quickly and temporarily installed in the cooler lines and has a digital read-out in the driver's compartment. This is especially helpful for monitoring cooler flow when TCC engages, and making sure flow does not drop off to critical levels under load or at idle.

ENGINE CONVERSION CHART — C.I.D. TO LITRE



ENGINE C.I.D.	LITRE	CYL.
85.0	1.4L	4
97.0	1.6L	4
98	1.6L	4
104.7	1.7L	4
105	1.7L	4
107.6	1.8L	4
109.9	1.8L	4
110	1.8L	4
112	1.8L	4
121	2.0L	4
121.3	2.0L	4
121.5	2.0L	4
122	2.0L	4
135	2.2L	4
140	2.3L	4
144	2.4L	6
150	2.5L	4
151	2.5L	4
153	2.5L	4
156	2.6L	4
170	2.8L	6
171	2.8L	V6
173	2.8L	V6
177	2.9L	V6
179	2.9L	V6
181	3.0L	V6
183	3.0L	V6
189	3.1L	V6
194	3.2L	6
195	3.2L	V8
196	3.2L	V6

ENGINE C.I.D.	LITRE	CYL.
198	3.2L	6
200	3.3L	V6
204	3.3L	V6
207	3.4L	V6
215	3.5L	6
221	3.6L	V6
223	3.7L	6
225	3.7L	6
229	3.8L	V6
230	3.8L	V6
231	3.8L	V6
232	3.8L	V6
235	3.9L	6
238	3.9L	V8
240	3.9L	L6
241	4.0L	V8
242	4.0L	6
243	4.0L	L6
245	4.0L	V6
250	4.1L	V6
252	4.1L	V6
255	4.2L	V8
256	4.2L	V8
258	4.2L	6
260	4.3L	V6/V8
262	4.3L	6/V8
265	4.3L	V8
267	4.4L	V8
270	4.4L	V8
272	4.5L	V8
280	4.6L	V8

ENGINE C.I.D.	LITRE	CYL.
283	4.6L	V8
289	4.7L	V8
292	4.8L	6
300	4.9L	6
301	4.9L	V8
302	5.0L	V8
304	5.0L	V8
305	5.0L	V8
307	5.0L	V8
312	5.1L	V8
318	5.2L	V8
326	5.3L	V8
327	5.4L	V8
330	5.4L	V8
331	5.4L	V8
332	5.4L	V8
340	5.6L	V8
341	5.6L	V8
348	5.7L	V8
350	5.7L	V8
351	5.8L	V8
352	5.8L	V8
354	5.8L	V8
358	5.9L	V8
360	5.9L	V8
361	5.9L	V8
366	6.0L	V8
368	6.0L	V8
370	6.1L	V8
379	6.2L	V8
381	6.2L	V8
383	6.3L	V8

ENGINE C.I.D.	LITRE	CYL.
389	6.4L	V8
390	6.4L	V8
391	6.4L	V8
392	6.4L	V8
394	6.5L	V8
396	6.5L	V8
400	6.6L	V8
401	6.6L	V8
402	6.6L	V8
403	6.6L	V8
406	6.7L	V8
409	6.7L	V8
410	6.7L	V8
413	6.8L	V8
420	6.9L	V8
421	6.9L	V8
425	7.0L	V8
426	7.0L	V8
427	7.0L	V8
428	7.0L	V8
429	7.0L	V8
430	7.0L	V8
432	7.1L	V8
440	7.2L	V8/V8
446	7.3L	V8
454	7.4L	V8
455	7.5L	V8
460	7.5L	V8
472	7.7L	V8
475	7.8L	V8
477	7.8L	V8
500	8.2L	V8

NOTE: For any engine not listed above, use the following multpliers for proper conversion:
C.I.D to Liters - Multiply by .016395 Liters to C.I.D - Multiply by 61.025

MEASUREMENT CONVERSION CHART

Fractions Inch	Decimal Inch	Metric (Millimeter)	Fractions Inch	Decimal Inch	Metric (Millimeter)
1/64	.015625	.39688	33/64	.515625	13.09687
1/32	.03125	.79375	17/32	.53125	13.49375
3/64	.046875	1.19062	35/64	.546875	13.89062
1/16	.0625	1.58750	9/16	.5625	14.28750
5/64	.078125	1.98437	37/64	.578125	14.68437
3/32	.09375	2.38125	19/32	.59375	15.08125
7/64	.109375	2.77812	39/64	.609375	15.47812
1/8	.125	3.1750	5/8	.625	15.87500
9/64	.140625	3.57187	41/64	.640625	16.27187
5/32	.15625	3.96875	21/32	.65625	16.66875
11/64	.171875	4.36562	43/64	.671875	17.06562
3/16	.1875	4.76250	11/16	.6875	17.46250
13/64	.203125	5.15937	45/64	.703125	17.85937
7/32	.21875	5.55625	23/32	.71875	18.25625
15/64	.234375	5.95312	47/64	.734375	18.65312
1/4	.250	6.35000	3/4	.750	19.05000
17/64	.265625	6.74687	49/64	.765625	19.44687
9/32	.28125	7.14375	25/32	.78125	19.84375
19/64	.296875	7.54062	51/64	.796875	20.24062
5/16	.3125	7.93750	13/16	.8125	20.63750
21/64	.328125	8.33437	53/64	.828125	21.03437
11/32	.34375	8.73125	27/32	.84375	21.43125
23/64	.359375	9.12812	55/64	.859375	21.82812
3/8	.375	9.52500	7/8	.875	22.22500
25/64	.390625	9.92187	57/64	.890625	22.62187
13/32	.40625	10.31875	29/32	.90625	23.01875
27/64	.421875	10.71562	59/64	.921875	23.41562
7/16	.4375	11.11250	15/16	.9375	23.81250
29/64	.453125	11.50937	61/64	.953125	24.20937
15/32	.46875	11.90625	31/32	.96875	24.60625
31/64	.484375	12.30312	63/64	.984375	25.00312
1/2	.500	12.70000	1	1.00	25.40000

CATALOG UPDATE
NEW ITEMS

Transmission	Part #
GM	
TH350	GM4401
4L60E, 4L65E, 4L70E	GM46
4L60E, 4L65E, 4L70E	GM54
4L60E, 4L65E, 4L70E	GM93
4T80E	GM9401
5L40E, 5L50E	GM37A
5L40E, 5L50E	GM38A
6L45, 6L50, 6L80, 6L90	GM10401
6L45, 6L50, 6L80, 6L90	GM10402
6L45, 6L50, 6L80, 6L90	GM10403
6L45, 6L50, 6L80, 6L90	GM10404
6L45, 6L50, 6L80, 6L90	GM10405
6L45, 6L50, 6L80, 6L90	GM10406
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5R110W	FM1603
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5R110W	FM160L
5R110W	FM160L-S1
5R110W	FM160M
5R110W	FM160M-S1
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5R55N, 5R55S, 5R55W	FM67HD
6F35	FM1441
6F50, 6F55	FM1241
6F50, 6F55	FM1242
6R140	FM1261
6R140	FM1262
6R60, 6R75, 6R80	FM9501
6R60, 6R75, 6R80	FM9502
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AODE, 4R70, 4R75 Series	FM69LHD
AODE, 4R70, 4R75 Series	FM70HD
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C-4 (1964-69)	FM18HP-11
C-4 (1970-81)	FM18AHP-10
C-6	FM127HP-10
C-6	FM127HP-11
CFT30	FM3301
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TF-80SC, TF-81SC	FM3902
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62TE	CR1323
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68RFE	CR7201-S1
68RFE	CR7202
68RFE	CR7202-S1
722.6 (Mercedes)	CR7801
A518, A618	CR70X-S2
A518, A618	CR94L-S1

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A604, 40TE, 41TE	CR0920
A604, 40TE, 41TE	CR0921
A604, 40TE, 41TE	CR0923
A727, TF8	CR10HP-10
A904, TF6	CR13
AS68RC (A465)	CR9901
AS68RC (A465)	KM9901
AISIN WARNER	
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AW 50-40LE, 50-42LE	TO8901
AW 50-40LE, 50-42LE	TO8902
AW 50-40LE, 50-42LE	TO8903
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131T Ring Gear	HO3001
131T Ring Gear	HO3003
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F4A41/42, F4A51/51	KM49
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F4A41/42, F4A51/51	KM8202
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RE4F02A, RE4F03A	DA48B
RE0F09A, RE0F10A	CR33N01
RE0F09A, RE0F10A	CR33N02
RE0F09A, RE0F10A	N33G01
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RE0F09A, RE0F10A	N33G03
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RE0F09A, RE0F10A	N33G05
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RE5R05A	DA67
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4 Speed, 4EAT	SU11M
4 Speed, 4EAT	SU14HS
4 Speed, 4EAT	SU16A
4 Speed, 4EAT	SU16B
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5 Speed, 5EAT	SU6302
CVT Lineartronic	SU3301
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A340 Series, AW4	TO47L
A340 Series, AW4	TO97
A340 Series, AW4	TO9701
A40D Series (Lock Up)	TO81
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A750E	TO15701
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U340E, U341E	TO3701
U660E	TO4701

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09D, TR60SN	VW59
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09G, TF60SN	VW1501
09G, TF60SN	VW1502
09G, TF60SN	VW1503
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ZF4HP16	ZF1890
ZF5HP19	AU13909
ZF5HP19	AU26
ZF5HP19	BMW12901
ZF5HP19	PCH54
ZF5HP19	PCH54A
ZF5HP24	AU13908
ZF5HP24	BMW13900
ZF5HP24	BMW13901
ZF5HP24	BMW13902
ZF5HP24	BMW13903
ZF5HP24	BMW13904
ZF5HP24	JA13905
ZF5HP24	JA13906
ZF5HP24	JA13907
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ZF6HP19	BMW55
ZF6HP26	BMW45
ZF6HP26	BMW95
ZF6HP26	BMW95A
ZF6HP26	JA95
ZF6HP26	JA95A

2008 Catalog	New #
AU30	AU13908
AU31	AU13909
BMW39	BMW13900
BMW64	BMW12901
BMW70	BMW13900
BMW75	BMW13901
BMW76	BMW13902
BMW77	BMW13903
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AU13	250
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AU21	249
AU22	249
AU23	249
AU24	249
AU25	249
AU26	250
AU13908	252
AU13909	250
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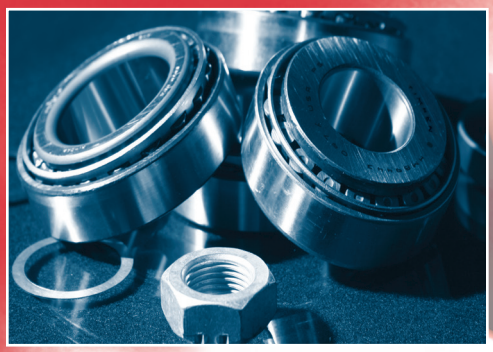

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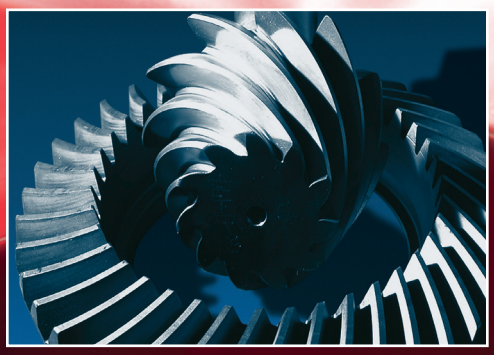

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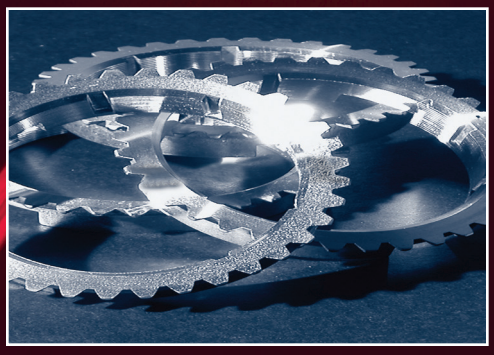

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