

KOM DIFFERENTIAL SEMINAR
FRIDAY, NOVEMBER 21, 2014

2014 SEMINAR PRESENTERS

DOUGLAS MATCHETT, KING-O-MATIC INDUSTRIES
RICK ROOD, RICK ROOD'S TRANSMISSION
GEORGE KREPPIN, ROCKLAND STANDARD GEAR

SEMINAR ITINERARY

9:00AM - 12:00PM..... OUTLINING FIXES AND UPDATES FOR DIFFERENTIALS
12:00PM - 1:00PM..... LUNCH
1:00PM - 4:30/5:00PM..... FOCUS ON TRANSFER CASE TROUBLESHOOTING AND UPDATES

LOCATION

NOVOTEL HOTEL (NEW LOCATION)
3670 HURONTARIO STREET
MISSISSAUGA, ONTARIO
TELEPHONE 905.896.000

EACH ATTENDEE WILL RECEIVE \$200 WORTH OF COUPONS
THAT CAN BE USED AGAINST FUTURE SALES ON
KING-O-MATIC REBATE REWARD PROGRAM

ALL THREE KOM PRESENTERS WILL BE AVAILABLE
FOR DISCUSSIONS AT THE KOM OPEN HOUSE
FROM 7:00 - 11:00 FRIDAY EVENING





- WHAT IS 'HOT FLASH'?
- GM CLUTCH PACK NOISE ISSUES.
- CHRYSLER 9.25 DIFFERENTIAL CHANGES.
- GM 2500/3500 FRONT DIFFERENTIALS, REMOVING GM9.25IFS FRONT DIFFERENTIAL STUB AXLE.
- THE GM 9.25IFS FRONT DIFFERENTIAL STUB AXLE IS DISCONTINUED, TWO ALTERNATIVE SOLUTIONS.
- DIFFERENTIAL FLUIDS.
- READING THE PINION DEPTH.
- MEASURING PINION DEPTH.
- GM/FORD UPDATED BEARINGS
- DIFFERENTIAL BEARING INSPECTION.
- NISSAN TITAN WITH DANA 44 REAR DIFFERENTIAL, 5.6L VERSUS 4.0L APPLICATIONS AND WHAT THE DIFFERENCES ARE BETWEEN THE PARTS.
- GM DISCONNECT UNITS.
- FORD F150 5.4L REAR POSI CHATTER OR 'CROW HOPPING' - OUR FIX VERSUS THE OEM FIX.
- GM 1500 PICKUPS EXPERIENCING CLUNK, BUMP OR SQUAWK WHEN VEHICLE COMES TO A COMPLETE STOP AND ACCELERATING FROM A COMPLETE STOP.
- REPLACING OLD STYLE GM PINION YOKES WITH NEW STYLE YOKES AND ADDITIONAL PART REQUIRED FOR ALL GM7.5/7.6, GM8.5/8.6, GM9.5/ GM10.5.
- GRAND CHEROKEE DIFFERENTIAL PUMP OPERATING SYSTEMS.
- SETTING RING AND PINION BACKLASH.
- IDENTIFYING THE PROBLEM OF REPEAT LEAKS AT PINION SEALS.
- EXCESSIVE HEAT IN REAR DIFFERENTIAL AND WHAT THE CAUSE MAY BE.
- DODGE RAM 1500 DANA 44 RIGHT SIDE DISCONNECT AXLE BUSHING MISSING CAUSING 4WD ISSUES.
- PROBLEM WITH 4WD AFTER CHANGING FRONT WHEEL BEARINGS ON FORD F150 WITH AUTOMATIC HUBS,MISSING PART THAT GETS OVERLOOKED.
- HOW TO CHECK DRIVELINE PINION ANGLES.
- WHY TOYOTA TACOMA/TUNDRA 2006 - UP REAR AXLE BEARING REPLACEMENT IS CAUSING ABS CODES.
- DISCUSSING THE PROPER CLEANING AND INSPECTION OF DIFFERENTIAL HOUSINGS.
- HOW TO PROPERLY MEASURE A REAR AXLE SHAFT.
- MAKING OR PURCHASING SOLID SPACERS FOR PERFORMANCE DIFFERENTIALS THAT HAVE COLLAPSING COLLAR FAILURE.
- FORD 8.8 OEM POSI UNITS NEW DESIGN.
- GM 3500 DURAMAX LAUNCH SHUTTER AND VIBRATION.
- FORD F550/GMC 4500/5500 AND INTERNATIONAL TRUCKS WITH SPICER S135/S150 REAR NEST KIT AND DIFFERENTIAL CASE EXPLODING, THE CAUSE AND WARRANTY CONCERNS.
- WHY FORD F150 9.75 DIFFERENTIAL CLUTCH CHATTER IS OFTEN MISDIAGNOSED AS A TRANSMISSION PROBLEM.
- FRONT DIFFERENTIAL ENGAGEMENT ISSUES ON GM S-10 MODELS DUE TO TRANSFER CASE SWITCH.
- IDENTIFYING RUST BUILD-UP IN MOUNTS ON GM1500/2500 TRUCKS CAUSING NOISE WHEN IN 4WD.
- HOW TO PREVENT WATER CONTAMINATION ON FORD F150 9.75 REAR DIFFERENTIALS.

** changes may be made to the final list*



TRANSFER CASE TOPICS TO BE PRESENTED*



- ASTRO/SAFARI VAN 1999 - 2005 AWD BINDING UP.
- GM 1500 PICKUPS NP149 AWD TRANSFER CASE WITH BORG WARNER BW4473 REPLACEMENT UNIT.
- THE NEED AND IMPORTANCE OF HAVING A PROPER TIRE GAUGE.
- WHY MEASURE TIRES?
- TIRE SIZE ISSUES CAUSING NOISE, TRANSFER CASE AND DIFFERENTIAL FAILURES.
- DODGE RAM 2500/3500 NP271/273 FRONT CASE HALF AND UNIT PROBLEMS.
- GM REAR TRANSFER CASE LEAKING PROBLEM.
- NP263/261 TRANSFER CASE RANGE FORK JAMMING UP WITH NO APPARENT CAUSE.
- PROCEDURE AFTER INSTALLING CHEV S-10 NEW ENCODER MOTORS AND TRANSFER CASE DOES NOT ENGAGE.
- CADILLAC SRX 2004-2009 TRANSFER CASE CHAIN JUMPING.
- FORD EXPLORER WITH LIGHT ON DASH PERMANENTLY ON.
- TRANSFER CASE FILL LEVELS.
- HOW TO PROPERLY CHECK A TRANSFER CHAIN TO SEE IF IT IS STRETCHED.
- HOW TO REALIGNED THE NP246 TRANSFER CASE MOTOR IF THE SETTINGS ARE NOT IN THE PROPER POSITION.
- WHY THE DASH BOARD LIGHTS DON'T WORK AFTER INSTALLING A NEW NP246 TRANSFER CASE.
- COMPARING ENCODER (TRANSFER CASE) MOTOR MANUFACTURERS.
- KIA SORRENTO BW4424 TRANSFER CASE MALFUNCTIONING, DISCUSS POSSIBLE CAUSE.
- FORD RANGER WITH A THUMP NOISE AND VIBRATION.
- JEEP GRAND CHEROKEE 2005-2010 EXPERIENCING ISSUES WITH UNINTENTIONAL SHIFTING OF THE TRANSFER CASE INTO THE NEUTRAL POSITION.
- JEEP GRAND CHEROKEE/COMMANDER WITH A RINGING SOUND COMING FROM THE PROPELLER SHAFT WHEN THE TRANSMISSION IS SHIFTED FROM DRIVE TO REVERSE OR REVERSE TO DRIVE
- MAGNA TRANSFER CASE MP3023LD UPDATED TO HEAVY DUTY.
- TRANSFER CASE GRINDS ON A SHIFT FROM 4WD HIGH TO 4WD LOW RANGE.
- GM, DODGE AND JEEP WITH PREMATURE NP231 CHAIN FAILURE AFTER REPLACEMENT.
- BORG WARNER 4411 TRANSFER CASES IN FORD EXPLORER VEHICLES BANGING ON HARD ACCELERATION.
- GM TRANSFER CASES MODELS NP136/NP236/ NP246 HAVING FRONT DRIVE SHAFT TURNING IN 2WD.
- FORD EXPLORER HOPPING AROUND TURNS.
- IDENTIFYING NOISE IN A GRAND CHEROKEE WITH A NP245 TRANSFER CASE.
- WHINING NOISES IN CHAIN DRIVEN TRANSFER CASES...ALL TYPES.
- NP242 IN A JEEP DOES NOT COME OUT OF 4WD EVEN WHEN THE SHIFT LEVER IS IN THE 2WD POSITION.
- FORD EXPLORER WITH A BW4405 TRANSFER CASE, NOISE ON DECELERATION ONLY! WILL BANG AND NEUTRALIZE OCCASIONALLY, BUT WILL REGAIN POWER IF YOU LIFT YOUR FOOT FROM THE ACCELERATOR.
- FORD EXPLORER TRANSFER CASE PRODUCES A HIGH PITCHED SIREN LIKE WHINE.
- 2009 CHEV PICKUP TRANSFER CASE GOING INTO NEUTRAL.
- REPLACING SHIFT FORK AND PIN IN A MP1226 TRANSFER CASE.
- RE-INITIALIZING OF TRANSFER CASE TO VEHICLE PROCEDURE WHEN NOT WORKING WITH ENGINE CODES PRESENT.
- SLIP YOKE WEAR CAUSING LEAKS AT REAR SEAL.
- ISSUES WITH SPACER PLATE SEAL ON DODGE 2500 PICKUPS, TRANSFER CASE TO OVERDRIVE HOUSING.
- REPEAT FAILURE OF RANGE FORK RESULT OF INPUT SHAFT AND RANGE COLLAR WEAR.
- FORD F150 TRANSFER CASE NOT FUNCTIONING DUE TO FRONT DIFFERENTIAL SOLENOID MALFUNCTIONING.
- FORD TRANSFER CASE LEAKING TRANSMISSION FLUID THROUGH INPUT BUSHING INSTEAD OF THE FRONT SEAL.

