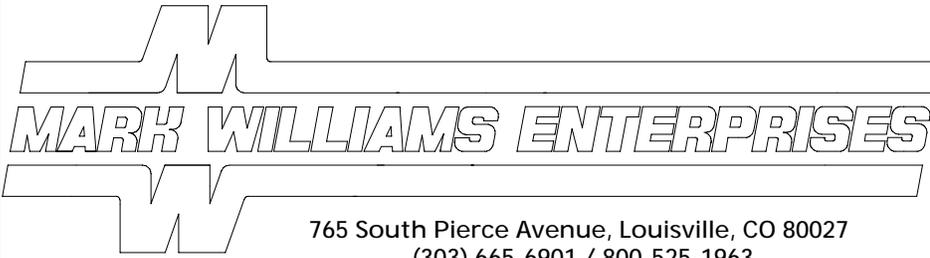


# INSTALLATION - SERVICE INSTRUCTIONS



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SERVICE BULLETIN

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COMPLETE THIRDMEMBERS

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**PART NUMBERS :** 57001 - 57015  
**DESCRIPTIONS :** COMPLETE 9" FORD THIRDMEMBERS

## PRIMARY APPLICATION :

DRAG RACING, STREET, ROAD RACING AND OVAL TRACK RACING.

## INSTALLATION OVERVIEW :

- 1) THE AXLE HOUSING MUST BE THOROUGHLY CLEANED WITH SOLVENT TO REMOVE ANY RESIDUE WHICH COULD LEAD TO AN ABRASIVE FAILURE. BE SURE AXLE HOUSING TUBES ARE CLEAN AND FREE OF ALL GRIT.
- 2) NOTE THE PINION BACKLASH OF THIRDMEMBER BEFORE INSTALLING BY ROTATING THE PINION BACK AND FORTH, RECORD THE ROTATIONAL BACKLASH OF THE PINION FOR FURTHER USE.
3. INSTALL THIRDMEMBER IN AXLE HOUSING WITH GASKET (.030 THICK) IF A GASKET IS USED THAT IS NOT THE SAME THICKNESS AS THE GASKET USED TO NARROW THE HOUSING THE TOE IN AND TOE OUT OF THE HOUSING WILL CHANGE MAKING THE AXLE RUN IN A BINDING CONDITION. TORQUE 10 - 3/8"-24 THIRDMEMBER ATTACHMENT NUTS TO 30-35 FT. LBS. ASSEMBLE AXLES AND BRAKE ASSEMBLY, THEN CHECK PINION BACKLASH, BACKLASH SHOULD REMAIN THE SAME AS IT WAS BEFORE INSTALLING THE THIRDMEMBER, IF THE ROTATING PINION BACKLASH CHANGES, THERE ARE A FEW CAUSES TO LOOK FOR:

A. BE SURE THAT WHEN INSTALLING THIRDMEMBER THE CAPS HAVE CLEARANCE IN THE BACK OF HOUSING. SOME 9" FORD HOUSINGS HAVE TO BE MODIFIED FOR CLEARANCE WITH THRU-BOLT ALUMINUM CASES.

B. THE HOUSING MOUNTING SURFACE FOR THE THIRDMEMBER IS NOT FLAT. IF THE MOUNT SURFACE IS OUT OF FLAT THIS WILL DISTORT THE THIRDMEMBER CASING CAUSING A LOSS OF BACKLASH AND INSTANT OR PREMATURE GEAR FAILURE.

- 4) FILL REAR END ASSEMBLY WITH OIL. FOR DRAG RACING M-W RECOMMENDS TORCO 85-140 MINERAL BASED OIL.



## BREAK IN PROCEDURE :

ALL NEW RING AND PINION GEAR SHOULD BE BROKEN IN, THE INITIAL BREAK IN PROCEDURE IS TO PERFORM A RUN-IN PRIOR TO DRIVING WITH THE REAR WHEELS JACKED UP AND OPERATING AT IDLE SPEED IN HIGH GEAR FOR A MINIMUM OF 15 MINUTES, THEN LET COOL.

DRAG RACING : ONLY INITIAL BREAK IN PROCEDURE IS REQUIRED FOR DRAG CARS.

STREET VEHICLES : AFTER INITIAL BREAK IN SHOULD BE DRIVEN AT NORMAL STREET DRIVING SPEEDS FOR APPROXIMATELY 5 TO 10 MILES, THEN STOP AND LET GEARS COOL FOR 30 MINUTES. THIS PROCEDURE SHOULD BE REPEATED 2 TO 3 TIMES.

CIRCLE TRACK : AFTER INITIAL BREAK IN SHOULD BE DRIVEN 6-8 LAPS AT SLOW SPEED, THEN COOL FOR 30 MINUTES, THEN 2-3 LAPS AT FULL SPEED AND LET COOL FOR 30 MINUTES.

**NOTE :** IF AFTER THE BREAK IN PROCEDURE IS PERFORMED OVERHEATING OF REAR END IS SUSPECTED, REPEAT THE FINAL PORTION OF BREAK IN.

## OIL REQUIREMENTS :

STOCK FORD HOUSING REQUIRES A MINIMUM OF 3 QUARTS OF GEAR LUBE. A FABRICATED OR M/W MODULAR HOUSING MINIMUM AMOUNT SHOULD BE 4 QUARTS OF GEAR LUBE. M/W ALSO RECOMMENDS THAT WITH ANY HOUSING THE USER MUST TAKE INTO CONSIDERATION THE CONFIGURATION OF THE HOUSING AND G-FORCES THAT WILL DISPLACE LUBRICATION, ADJUST THE GEAR LUBE LEVEL SO PROPER LUBRICATION IS OBTAINED.

## RECOMMENDED MAINTENANCE :

BE SURE REAR END HAS PROPER GEAR LUBE LEVEL. M/W RECOMMENDS A MAGNETIC DRAIN PLUG TO GATHER SMALL METAL FLAKES THAT ARE PRODUCED WITH GEAR WEAR. M/W ALSO RECOMMENDS THAT AFTER SHORT TIME USE THAT GEAR OIL BE CHANGED TO REMOVE ANY METAL THAT WEARS DURING BREAK IN PROCEDURE. INSPECTION PLUG ON TOP OF AXLE HOUSING ALLOWS RECOMMENDED VIEWING OF RING GEAR AREA FOR CRACKS AND ABNORMAL WEAR.