

**FORD:**

2005-2006 Mustang

**ISSUE**

Some 2005-2006 Mustangs may exhibit an axle whine or hum during acceleration, deceleration and/or cruise.

**ACTION**

An axle repair kit has been developed which incorporates most parts required for a comprehensive axle repair. The kit should be used instead of installing a complete axle assembly to repair an axle whine/hum. Replace Ring and Pinion with Axle Kit and Components

**SERVICE PROCEDURE****NOTE**

REFER TO THE "DIFFERENTIAL RING AND PINION" IN-VEHICLE REPAIR PROCEDURE IN THE ONLINE WORKSHOP MANUAL SECTION 205-2A (7.5 INCH AXLE) OR SECTION 205-2B (8.8 INCH AXLE), FOR THE LATEST AXLE DIAGNOSIS AND REPAIR PROCEDURES.

**THE AXLE SERVICE KITS INCLUDE THE FOLLOWING COMPONENTS:**

- 4630 - Head Bearing
- 4628 - Head Bearing Cup
- 4676 - Pinion Seal
- 386989-S2 - Washer (Slinger)
- 4621 - Tail Bearing
- 4616 - Tail Bearing Cup
- 4222 - Differential Bearing Cups
- 4221 - Differential Bearings
- 4209 - Gear Set (includes pinion shims, pinion nut and crush spacer)
- 4209 - Instruction Sheet

**NOTE**

REUSE OF RING GEAR BOLTS, CARRIER BEARING CAP BOLTS AND DIFFERENTIAL SLAVE PIN RETAINING BOLT REQUIRES CLEANING OF THREADS AND INSTALLATION OF TA-27 THREAD LOCK ADHESIVE ON THE RING GEAR BOLTS AND TA-25 THREADLOCK ADHESIVE ON DIFFERENTIAL SLAVE PIN BOLT.

**NOTE**

THE KIT DOES NOT INCLUDE THE FOLLOWING ITEMS. SOME OR ALL OF THESE ITEMS WILL BE REQUIRED TO COMPLETE THE AXLE SERVICE, DEPENDING ON AXLE APPLICATION/STYLE.

**ORDER AS NEEDED:**

- 4067 - Differential Shims 0.241"
- XY-75W140-QL - Synthetic Rear Axle Lubricant
- XL-3 - Additive Friction Modifier (Limited Slip Axles Only)
- ZC-21 - Metal Surface Cleaner
- TA-29 - Ultra Silicone Sealant
- TA-27 - Stud and Bearing Mount Retaining Compound and Sealant
- TA-25 - Threadlock Adhesive
- XG-14 - Gear Marking Compound

PART NUMBER	PART NAME
5R3Z-4209-D	Axle Service Kit - 8.8 inch 3.55 ratio (V8 vehicles with manual transmission)
5R3Z-4209-E	Axle Service Kit - 8.8 inch 3.31 ratio (V8 vehicles with automatic transmission)
5R3Z-4209-F	Axle Service Kit - 7.5 inch 3.31 ratio (V6 vehicles)

**WARRANTY STATUS:** Eligible Under Provisions Of New Vehicle Limited Warranty Coverage

**NOTE:** The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford, Lincoln, or Mercury dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.

<b>OPERATION</b>	<b>DESCRIPTION</b>	<b>TIME</b>
052002A	2005-2006 Mustang Install The Parts Included In Kit, Includes Time To Perform Diagnosis: (Do not use with 4205A, 4205A4)	5.5 Hrs.

**DEALER CODING**

**BASIC PART NO.**  
4209

**CONDITION  
CODE**  
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