

## Drivetrain - Rear Differential Moan/Groan at Low Speeds

TSB 07-22-8

11/12/07

### 8.8 LIMITED SLIP AXLE MOAN/GROAN NOISE DURING LOW SPEED TURNING MANEUVERS

FORD:

2005-2007 Mustang

This article supersedes TSB 06-19-2 to update the Service Procedure.

#### ISSUE

Some 2005-2007 Mustang GI vehicles equipped with the 8.8 inch limited slip axle may exhibit a moan/groan noise when making tight low speed turns. This may be more noticeable when the axle is at full operating temperature. The noise may also be confused as originating from the brakes or steering system.

#### ACTION

Follow the Service Procedure steps to correct the condition.

#### SERVICE PROCEDURE

1. First, verify the concern.
  - a. Make sure the axle is at full operating temperature.
  - b. Perform several full lock turns at low speeds in both directions.
  - c. If the noise is verified to be in the rear axle, proceed to Step 2.
  - d. If the concern can not be verified or the noise is not coming from the rear axle assembly, then do not continue with this TSB and follow normal diagnostics in the Workshop Manual (WSM).
2. For vehicles built before 10/22/2006, replace the limited slip [clutch](#) pack. Install the new limited slip clutch pack kit following the procedures in the Mustang WSM, Section 205-02B (Differential Carrier Removal and [Differential Case/Ring Gear](#) Disassembly).
3. Vehicles built after 10/22/2006 were built with the new limited slip [clutch](#) pack. For these vehicles, add 1 bottle of Motorcraft XL-3 Additive Friction Modifier to the axle. Perform several full lock turns at low speeds in both directions to force the lubricant into the limited slip clutch pack.

**NOTE DO NOT INSTALL NEW LIMITED SLIP [CLUTCH](#) PACKS IN VEHICLES BUILT AFTER 10/22/2006.**

PART NUMBER	PART NAME
3L1Z-4947-BE	Clutch Pack
XL-3	Motorcraft® Additive Friction Modifier

Parts Block

WARRANTY STATUS: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage IMPORTANT: Warranty coverage limits/policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

OPERATION	DESCRIPTION	TIME
072208A	2005-2007 Mustang Built After 10/22/2006: Add Friction Modifier, Includes Time For Road Test (Do Not Use With 4205A, 4205A4, 4205A12, 4205A13, 4234A)	1.0 Hr.
072208B	2005-2007 Mustang Built The Limited Slip <a href="#">Clutch</a> Pack, Includes Time For Road Test (Do Not Use With 4205A, 4205A4, 4205A12, 4205A13, 4234A)	3.3 Hrs.

DEALER CODING

BASIC PART NO.	CONDITION CODE
4947	D4