

**TSB
08-8-5**

- **4.0L WITH MANUAL TRANSMISSION - 4TH GEAR RATTLE/KNOCK NOISE ON ACCELERATION - 1800-2200 RPM APPROXIMATELY 45 MPH (72 KM/H)**

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FORD: 2005-2007 Mustang

ISSUE:

Some 2005-2007 Mustang vehicles, equipped with a 4.0L [engine](#) and manual transmission, may exhibit a rattle or knocking noise on light acceleration between 1800-2200 RPM around 45 MPH (72 Km/h). It is most evident in 4th gear after the engine/transmission has reached operating temperatures. It has been described as a helicopter noise, similar to when you put a playing card in [bicycle](#) spokes. This noise has no affect on [vehicle performance](#) or durability.

ACTION:

Follow the Service Procedure steps to correct the condition.

NOTE: THIS NOISE IS DUE TO A SYSTEM RESONANCE, COMMON TO SOME 4.0L/MANUAL TRANSMISSION EQUIPPED VEHICLES, AND HAS NO AFFECT ON CLUTCH/TRANSMISSION LIFE/DURABILITY. PERFORMING THIS PROCEDURE WILL GREATLY REDUCE THE NOISE LEVEL.

SERVICE PROCEDURE

1. Follow TSB 08-3-4 to eliminate any noise/vibration related to exhaust system alignment. If rattle noise still persists, then proceed to Step 2.

NOTE: THIS PROCEDURE WILL NOT FIX THE CONCERN IF THE CUSTOMER COMPLAINT IS:

- ABOVE 55 MPH
- ON COAST DOWN
- IN 1ST OR 5TH GEAR
- AFFECTED BY PRESSURE ON THE SHIFTER
- A GRINDING NOISE

2. The noise specific to this procedure is most evident after the engine/transmission has reached operating temperatures. It is due to a resonance. The transfer path for the noise is through the gear shift lever area and transmission mount. If the noise can be replicated in 4th gear on light acceleration between 1800-2200 RPM, around 45 MPH (72 Km/h), then replace the [flywheel](#) with the revised flywheel listed in the Parts List. To be compatible, the clutch may need to be replaced depending on build date. See Steps 3 and 4.

NOTE: THIS PROCEDURE HAS NO AFFECT ON CLUTCH/TRANSMISSION LIFE/DURABILITY.

- 3.
4. If the vehicle was built on or after 12/4/2006, then replace the flywheel per Workshop Manual (WSM), Section 303-01A. If not, then go to Step 4.
5. If the vehicle was built before 12/4/2006, then replace the flywheel, clutch disc, and clutch pressure plate per WSM, Sections 303-01A and 308-01.

PART NUMBER	PART NAME
8R3Z-6375-A	Flywheel
7R3Z-7550-B	Clutch Disc

7R3Z-7563-B	Clutch Pressure Plate
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OTHER APPLICABLE ARTICLES:

[08-3-4](#)

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.