

## 4.6L WITH TR3650 MANUAL TRANSMISSION—CLASH OR RASPY FEEL—SHIFTING INTO 2ND AND/OR 3RD GEAR

TSB 09-19-17

**FORD:**  
2007-2008 Mustang

This article supersedes TSB 9-9-6 to update the Service Procedure.

### **ISSUE**

Some 2007-2008 Mustang vehicles equipped with the 4.6L engine and TR3650 5 speed manual transmission may exhibit a clash noise and/or raspy (rough) feel on gear engagements during 1-2 or 2-3 upshifts. This condition may be more pronounced when the transmission is colder than 40 degrees F (4 degrees C).

### **ACTION**

Follow the Service Procedure steps to correct the condition.

### **SERVICE PROCEDURE**

A lack of shift effort may cause gear clash when shifting a manual transmission. Increased shift effort in colder temperatures is a normal characteristic.

1. Inspect clutch pedal for full travel. Verify that the floor mat is properly secured to the carpet hook.
  - a. Clutch pedal does not have full travel - Do not continue with this procedure if the floor mat is not properly secured, positioned, or other obstructions are present.
  - b. Clutch pedal does have full travel - If no conditions are present proceed to Step 2.

### **NOTE**

FULL CLUTCH PEDAL TRAVEL IS REQUIRED TO RELEASE THE CLUTCH AND ALLOW PROPER SHIFTING OF THE TRANSMISSION.

2. Remove the transmission following Workshop Manual (WSM), Section 308-03B.

3. Only replace the synchronizer that exhibits the shift concern. Follow WSM, Section 308-03B to replace the 1-2 and/or 3-4 synchronizer assembly and blocking rings as required.
4. Install the transmission following WSM, Section 308-03B.

PART NUMBER	PART NAME
3R3Z-7124-BA	1-2 Synchronizer
1R3Z-7124-DA	3-4 Synchronizer
3R3Z-7107-AB	1-2 Blocking Ring
1R3Z-7107-BA	3, 4, 5 And Reverse Blocking Ring

**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
091917A	2007-2008 Mustang 4.6L Engine TR3650 Transmission: Replace The Necessary Synchronizer(s) And Blocking Rings As Required (Do Not Use With Any Other Labor Operations)	6.6 Hrs.

### **DEALER CODING**

BASIC PART NO.	CONDITION CODE
7124	42

**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.