

# SHUDDER/VIBRATION ON MODERATE TO HARD ACCELERATION

TSB 09-22-12

## FORD:

2009-2010 F-150

## ISSUE

Some 2009-2010 F-150 vehicles may exhibit shudder/vibration on moderate to hard acceleration.

## ACTION

Follow the Service Procedure steps to correct the condition.

## SERVICE PROCEDURE

Adjust the rear axle pinion angle using the appropriate axle shim kit. Refer to the Instruction Sheet provided in the kit which provides installation procedures and Driveline Angle Corrections Chart.

The concerns described in this article mainly occur only when the vehicle is loaded with cargo or towing a trailer. The following are key points when resolving the concern.

- The vehicle must be evaluated in the state when the complaint occurs in order to verify the concern and validate a successful repair.
- If pinion angle is being adjusted to compensate for a loaded or trailer tow condition, there is risk that a vibration may occur with the vehicle unloaded.
- Verify suspension is not modified from the original configuration. Aftermarket leveling kits and rear leaf spring shackle kits change ride height which affects pinion angle and other critical driveline related operating angles. Vehicle must be at original specifications before accurate evaluation and diagnosis can be performed.

## NOTE

FOR 2 PIECE DRIVESHAFT EQUIPPED VEHICLES IT MAY BE NECESSARY TO ORDER THE CENTER BEARING SHIM(S) (3 MAXIMUM) AND BOLTS.

## NOTE

HEAVY DUTY REAR AXLES HAVE 7 LUG NUTS.

PART NUMBER	PART NAME
9L3Z-4C088-EB	Axle Shim Kit - Light and Heavy Duty 4X2
9L3Z-4C088-FB	Axle Shim Kit - Light Duty 4X4
9L3Z-4C088-GB	Axle Shim Kit- Heavy Duty 4X4
EOTZ-4A209-A	Shim - Center Bearing (3 Maximum)
W711116-S439	Bolt - Center Bearing (2 req)

**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
092212A	2009-2010 F-150: Road Test, Install Wedge, Road Test (Covers Procedure A, B, C, Or D) (Do Not Use With Any Other Labor Operations)	2.7 Hrs.
092212B	2009-2010 F-150: Road Test, Install Wedge, Road Test, Lower Center Bearing By Adding 1/4 Inch Shims (Install Shim, Road Test, Install Shim, Road Test, Install Shim Road Test (Covers Procedure C/C1, D/D1 (Do Not Use With Any Other Labor Operations)	3.2 Hrs.

**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.

## TSB 09-22-12 (Continued)

092212C	2009-2010 F-150: Road Test, Adjust The Center Bearing By Installing 2 Shims, Road Test, Remove Shim, Road Test, Remove Shim, Road Test, Install Wedge, Road Test (Covers Procedure E) (Do Not Use With Any Other Labor Operations)	3.2 Hrs.
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### DEALER CODING

BASIC PART NO.  
5793

CONDITION  
CODE  
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