

## 4X4—REAR OF VEHICLE SITS LOWER THAN EXPECTED UNDER LIGHT LOADS

TSB 13-3-8

### FORD:

2011-2013 F-250

### ISSUE

Some 2011-2013 F-250 Super Duty 4X4 vehicles may exhibit a customer concern of lower than expected rear suspension height under light loads.

### ACTION

Follow the Service Procedure steps to correct the concern.

### SERVICE PROCEDURE

Rear ride height may be increased by adding a 10 cm (4") spacer block, along with additional components. Raising rear ride height could affect fifth wheel trailer compatibility.

1. Lower the rear axle and remove the original 5 cm (2") rear spring spacers. Discard spacer, U-bolts, and nuts. Refer to Workshop Manual (WSM), Section 204-02.
  - a. Refer to parts list chart for the correct part and vehicle application(s).
2. Install 10 cm (4") rear spring spacers, using new U-bolts and nuts.
3. Raise rear axle and torque U-bolt nuts in proper sequence. Refer to WSM, Section 204-02.
4. Replace the rear shock absorbers. Refer WSM, Section 204-02.
5. If the vehicle is equipped with a two-piece driveshaft, replace the driveshaft and center bearing bracket. Refer to WSM, Section 205-01 and proceed to Step 7.
  - a. Check driveline angles, if required. Refer to WSM, Section 205-00.
  - b. Failure to update the center bearing bracket, if required, may result in driveline shudder.

6. If the vehicle is equipped with a one-piece driveshaft, replace the driveshaft. Refer WSM Section 204-02 and proceed to Step 7.
7. If the vehicle is equipped with a camper package with rear suspension stabilizer bar, replace both rear stabilizer bar links. Refer WSM, Section 204-02 and proceed to Step 8.
8. Adjust headlamp aim. Refer to WSM, Section 417-01.

### NOTE

SEE APPLICATION CHART LOCATED AT THE END OF THE ARTICLE.

PART NUMBER	PART NAME
F81Z-5598-FA	Spacer Block (RH)
F81Z-5598-GA	Spacer Block (LH)
7C3Z-5598-HB	Spacer Block
7C3Z-5598-JB	Spacer Block
F81Z-5598-DA	Spacer Block
BC3Z-5705-C	U-Bolts
BC3Z-5705-G	U-Bolts
BC3Z-18125-AK	Rear Shock
BC3Z-18125-U	Rear Shock
BC3Z-18125-AG	Rear Shock
BC3Z-18125-V	Rear Shock
BC3Z-18125-AM	Rear Shock
BC3Z-18125-AH	Rear Shock
BC3Z-18125-AA	Rear Shock
BC3Z-18125-AB	Rear Shock
BC3Z-4602-T	Driveshaft
BC3Z-4602-V	Driveshaft
BC3Z-4602-X	Driveshaft
BC3Z-4R602-HL	Driveshaft
BC3Z-4R602-LC	Driveshaft
BC3Z-4R602-MP	Driveshaft
8C3Z-4831-D	Carrier Plate
7C3Z-4831-G	Carrier Plate
DC3Z-5K484-B	Bar Links

**WARRANTY STATUS:** Information Only

**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 or Lincoln 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.

2011 - 2013 MODEL YEAR SUPER DUTY - PARTS LIST TO RAISE F-250 4X4 REAR SUSPENSION - (CUSTOMER PAY REQUEST ONLY)

PART DESCRIPTION	ORIGINAL PRODUCTION PART NUMBER	NEW PRODUCTION PART NUMBER	SERVICE PART NUMBER	GAS APPLICATION	DIESEL APPLICATION	137" WHEEL-BASE	142" WHEEL-BASE	156" WHEEL-BASE	158" WHEEL-BASE	172" WHEEL-BASE	QUANTITY PER VEHICLE
SPACER BLOCKS	7C34-5598-KA	2C34-5598-FA	F81Z-5598-FA	X	X	X	X				Required 1
	7C34-5598-LA	2C34-5598-GA	F81Z-5598-GA	X	X	X	X				Required 1
	6C34-5998-AA	7C34-5598-HD	7C3Z-5598-HB	X	X			X	X		Required 1
	6C34-5598-AA	7C34-5598-JD	7C3Z-5598-JB	X	X			X	X		Required 1
	6C34-5598-AA	F81A-5598-DB	F81Z-5598-DA	X	X					X	Required 2
U-BOLTS	BC34-5705-HB	BC34-5705-CA	BC3Z-5705-C	X		X	X				Required 4
	BC34-5705-BC	BC34-5705-CA	BC3Z-5705-C	X	X	X	X				Required 4
	BC34-5705-BC	BC34-5705-CA	BC3Z-5705-C	X	X			X	X	X	Required 4
	BC34-5705-FA	BC34-5705-JA	BC3Z-5705-G	X	X	X	X	X	X	X	Required 4
	BC34-18080-JBD	BC34-18080-LBD	BC3Z-18125-AK	X		X	X				Required 2
REAR SHOCK ABSORBERS	BC34-18080-JDC	BC34-18080-LDC	BC3Z-18125-U		X	X	X				Required 2
	BC34-18080-JCD	BC34-18080-LCD	BC3Z-18125-AG	X				X	X	X	Required 2
	BC34-18080-JEC	BC34-18080-LEC	BC3Z-18125-V		X			X	X	X	Required 2
	BC34-18080-KBD	BC34-18080-MBD	BC3Z-18125-AM	X		X	X				Required 2
	BC34-18080-KDC	BC34-18080-MDC	BC3Z-18125-AH	X				X	X	X	Required 2
DRIVESHAFTS	BC34-18080-KEC	BC34-18080-MEC	BC3Z-18125-AA		X	X	X				Required 2
	BC34-4602-BAA/BCA	BC34-4602-BLC	BC3Z-4602-T	X	X	X		X	X	X	Required 2
	BC34-4602-DAA/DCA	BC34-4602-DLC/DNB	BC3Z-4602-V	X	X		X				Required 1
	BC34-4602-FCA	BC34-4602-FCA	BC3Z-4602-X	X	X			X			Required 1
	BC34-4K145-HAC	BC34-4K145-HLB	BC3Z-4R602-HL	X					X		Required 1
TWO PIECE DRIVESHAFT CARRIER BEARING SPACER PLATE REAR STABILIZER BAR LINKS (IF EQUIPPED)	BC34-4K145-HCA	BC34-4K145-HMA	BC3Z-4R602-LC		X				X		Required 1
	BC34-4K145-KAC/KCB	BC34-4K145-KMB/KNB	BC3Z-4R602-MP	X	X					X	Required 1
	BC34-4831-BMA	CC34-4831-BFA	8C3Z-4831-D	X	X				X		Required 1
	BC34-4831-ADB	BC34/CC34-4831-AHA	7C3Z-4831-G	X	X					X	Required 1
	F81A-5K484-DA	7C34/DC34-5K484-FA	DC3Z-5K484-B	X	X	X	X	X	X	X	Required 2

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Figure 1 - Article 13-3-8