

**4 WHEEL DRIVE/ALL WHEEL DRIVE—WITH
CONTROL TRAC —SHUDDER ON
ACCELERATION/DECELERATION OR BINDING ON
SLOW TURNS**

TSB 08-21-11

FORD:

1997-2008 Expedition, Explorer
2006-2008 F-150
2007-2008 Explorer Sport Trac
2008 F-150

LINCOLN:

1998-2008 Navigator
2003-2005 Aviator

MERCURY:

2005 Mountaineer
2006-2008 Mountaineer

ISSUE

Various 1997-2008 vehicles equipped with either 4 wheel drive or all wheel drive and equipped with control trac may exhibit a shudder on acceleration/deceleration, binding in slow speed turns or noise from the front driveline and/or transfer case. The shudder/binding will occur with the vehicle being operated in the awd/auto 4x4 mode. The shudder/binding may be due to incorrect tire circumference or improper tire inflation pressures.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

NOTE

THIS DOES NOT APPLY TO 2006-2008 MOUNTAINEER WITH A 4.0L ENGINE OR 2007-2008 EXPLORER AND SPORT TRAC WITH 20 INCH WHEELS.

NOTE

VEHICLES ON THE LIST MAY REQUIRE REPLACEMENT OF TIRE/S IF THE TIRE CIRCUMFERENCE AVERAGE BETWEEN THE FRONT AND REAR AXLES ARE OUTSIDE OF THE 1/2 INCH SPECIFICATION OR IF THE TIRE CIRCUMFERENCE FROM SIDE TO SIDE ON EITHER AXLE EXCEEDS 1/2 INCH DIFFERENCE, THE SMALLER TIRE(S) MUST BE REPLACED.

NOTE

REVIEW THE WARRANTY AND POLICY MANUAL FOR FORD MOTOR COMPANY TIRE REPLACEMENT WARRANTY BEFORE PERFORMING THE SERVICE PROCEDURE.

NOTE

ONLY USE REPLACEMENT TIRE AND WHEEL THAT ARE THE SAME SIZE, LOAD INDEX, SPEED RATING AND TYPE (SUCH AS P-METRIC VERSUS LT-METRIC OR ALL-SEASON VERSUS ALL-TERRAIN) AS THOSE ORIGINALLY PROVIDED BY FORD. THE RECOMMENDED TIRE AND WHEEL SIZE MAY BE FOUND ON EITHER THE SAFETY COMPLIANCE CERTIFICATION LABEL OR THE TIRE LABEL WHICH IS LOCATED ON THE B-PILLAR OR EDGE OF THE DRIVER'S DOOR.

NOTE

ON SOME 4WD MODELS, THE INITIAL SHIFT FROM 2WD TO 4WD WHILE THE VEHICLE IS MOVING CAN CAUSE A MOMENTARY CLUNK AND/OR BRIEF RATCHETING SOUND. THESE SOUNDS ARE NORMAL AS THE FRONT DRIVETRAIN COMES UP TO SPEED AND IS NOT CAUSE FOR CONCERN.

1. Review the tire label for correct tire size and tire inflation pressures located at the B-Pillar of the driver's door.
2. If the tire size does not match the label, this procedure does not apply, follow normal Workshop Manual (WSM) diagnostics.

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 supercede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.

TSB 08-21-11 (Continued)

3. If the tire size is correct, ensure tire pressures are within specifications.
4. Raise the vehicle on the hoist, refer to Workshop Manual, Section 100-02.
5. Disconnect all wiring going to the transfer case and road test.
6. Is the shudder/binding present?
 - a. If the shudder/binding is still present, do not continue with this procedure, continue with WSM normal diagnostic for 4X4.
 - b. If the shudder/binding is gone, proceed to Step 7.
7. Raise the vehicle on the hoist and reconnect all the wiring previously disconnected.
8. Using a tailor's tape or flexible measuring tape and measure the circumference of all four (4) tires and record the measurements. (Figure 1)

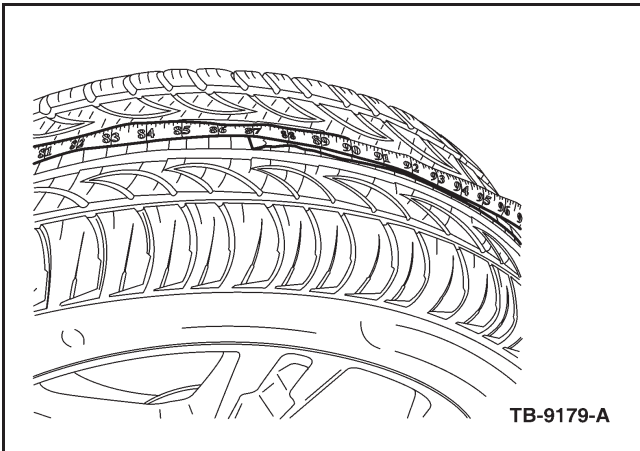


Figure 1 - Article 08-21-11

9. Calculate the average of the circumference of the two (2) front tires and calculate the average of the circumference of the two (2) rear tires. (Figure 2)

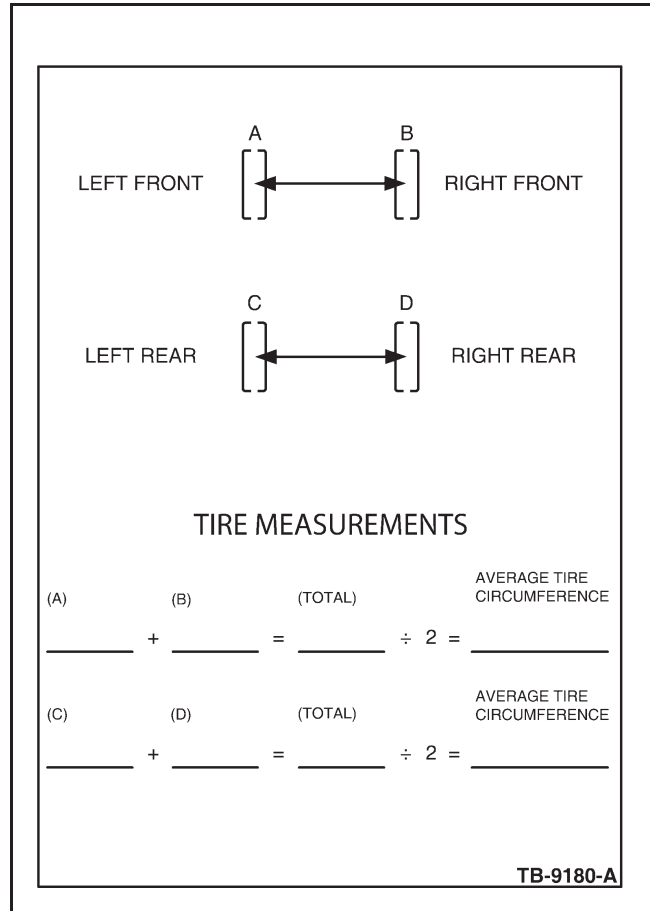


Figure 2 - Article 08-21-11

10. If the difference between these two averages is greater than 1/2" (12.7 mm), front to back or side to side, replace the smallest circumference tire(s) and remeasure the tire averages. Refer to WSM, Section 204-04 for tire replacement.

NOTE

WARRANTY COVERAGE ELIGIBILITY STARTS WITH 2007 NEW VEHICLE LIMITED WARRANTY COVERAGE.

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.

TSB 08-21-11 (Continued)

OPERATION	DESCRIPTION	TIME	082111C	2003-2008 Expedition, Navigator, 2003-2005 Aviator, Explorer, Mountaineer 4X4: Perform Diagnosis Outlined In Service Procedure And Replace Three (3) Tires (Do Not Use With 1007A)	1.7 Hrs.
082111A	2003-2008 Expedition, Navigator, 2003-2005 Aviator, Explorer, Mountaineer 4X4: Perform Diagnosis Outlined In Service Procedure And Replace One (1) Tire (Do Not Use With 1007A)	1.1 Hrs.			
082111A	1997-2002 Expedition, 1998-2002 Navigator, 2006-2008 F-150 Harley Davidson, Mountaineer, 1997-2008 Explorer, 2007-2008 Explorer Sport Trac, And 2008 F-150 Limited 4X4: Perform Diagnosis Outlined In Service Procedure And Replace One (1) Tire (Do Not Use With 1007A)	1.0 Hr.	082111C	1997-2002 Expedition, 1998-2002 Navigator, 2006-2008 F-150 Harley Davidson, Mountaineer, 1997-2008 Explorer, 2007-2008 Explorer Sport Trac, And 2008 F-150 Limited 4X4: Perform Diagnosis Outlined In Service Procedure And Replace Three (3) Tires (Do Not Use With 1007A)	1.4 Hrs.
082111B	2003-2008 Expedition, Navigator, 2003-2005 Aviator, Explorer, Mountaineer 4X4: Perform Diagnosis Outlined In Service Procedure And Replace TWO Tires. (Do Not Use With 1007A)	1.4 Hrs.	DEALER CODING		CONDITION
			BASIC PART NO. 7A195		CODE 42
082111B	1997-2002 Expedition, 1998-2002 Navigator, 2006-2008 F-150 Harley Davidson, Mountaineer, 1997-2008 Explorer, 2007-2008 Explorer Sport Trac, And 2008 F-150 Limited 4X4: Perform Diagnosis Outlined In Service Procedure And Replace Two (2) Tires (Do Not Use With 1007A)	1.2 Hrs.			