

SECTION : 308-06 Manual Transmission External Controls

VEHICLE APPLICATION : 2008.0 Falcon

CONTENTS	PAGE
SPECIFICATIONS	
Specifications	308-06-1
DIAGNOSIS AND TESTING	
External Controls	308-06-2
Inspection and Verification	308-06-2
Symptom Chart	308-06-2
Pinpoint Tests	308-06-3
REMOVAL AND INSTALLATION	
Gearshift Lever	308-06-4
Gearshift Boot and Retainer Assembly	308-06-4



SPECIFICATIONS

Torque Specifications

Description	Nm
Gearshift lever retaining nut	8.9 - 12.1
Gearshift lever boot and retainer assembly retainer nut	8.9 - 12.1



DIAGNOSIS AND TESTING

External Controls

Inspection and Verification

1. Verify the customer concern.
2. Visually inspect for obvious signs of mechanical damage.

3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.
4. If the concern is not visually evident, verify the symptom and refer to the Symptom Chart.

Symptom Chart

Condition	Source	Action
• External controls operate with excessive freeplay.	• Gearshift lever damaged.	• Go to PinPoint Test A.
• External controls do not operate freely.	• Gearshift lever fouled.	• Go to PinPoint Test A.
	• Transmissions gearshift selector lever damaged	• Go to PinPoint Test B.
• External controls causes excessive cabin noise/odor.	• Gearshift boot and retainer assembly damaged.	• Go to PinPoint Test A.

Pinpoint Tests

PINPOINT TEST A : ABNORMAL EFFORTS OR NOISE/ODOR

Test Step		Result / Action to Take
A1	CHECK THE GEARSHIFT LEVER	
	<ul style="list-style-type: none"> • Detach the gearshift lever from the transmission gearshift selector lever. • Is the gearshift levers isolation rubber damaged? 	Yes Install a new gearshift lever. Refer to Gearshift Lever in this section No Go to B1
A2	CHECK FOULING OF THE GEARSHIFT LEVER	
	<ul style="list-style-type: none"> • Remove the gearshift lever knob/boot and insulation pad. • Is the gearshift levers fouled through its shift gate? 	Yes Remove obstruction. No Go to B2
A3	CHECK GEARSHIFT LEVER LEAKS CABIN NOISE	
	<ul style="list-style-type: none"> • Remove the gearshift lever boot and retainer assembly. • Is the gearshift levers boot damaged? 	Yes Install a new gearshift lever boot and retainer assembly. No Check boot and retainer assemblies correctly installed and hardware torqued to specification.



DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST B : ABNORMAL TRANSMISSION GEARSHIFT SELECTION

Test Step		Result / Action to Take
B1	CHECK THE TRANSMISSIONS GEARSHIFT SELECTOR LEVER	
	<ul style="list-style-type: none"> Detach the gearshift lever from the transmission gearshift selector lever. Is the gearshift selector lever damaged? 	<p>Yes Install a new gearshift selector lever. Refer to Manual Transmission Section.</p> <p>No Check for obstruction.</p>
B2	CHECK THE TRANSMISSIONS GEARSHIFT SELECTOR LEVER SHIFT GATE	
	<ul style="list-style-type: none"> Remove the gearshift lever knob/boot and insulation pad. Is the gearshift gate difficult to select or binds? 	<p>Yes Service the Transmission as internal shift mechanism damaged. Refer to Manual Transmission Section 308-00.</p> <p>No Check for obstruction.</p>



REMOVAL AND INSTALLATION

Gearshift Lever

Removal and Installation

1. Place the gearshift lever in the neutral position gate.
2. Gently prise the finisher panel from the console. For additional information, refer to Section 501-12.
3. Gently prise the retainer lugs of the console's top PRND surround panel from the console. Lift vertically away from the gearshift lever. For additional information, refer to Section 501-12.
4. Unscrew the gearshift lever retaining nuts inside the console.

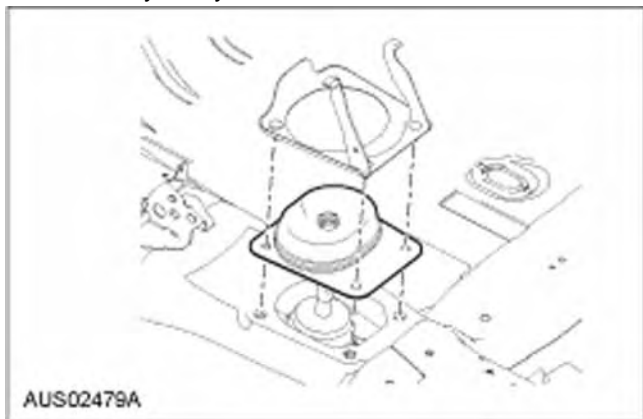
NOTE: Do not remove the gear knob from the lever unless absolutely necessary as the knob is bonded to the lever with adhesive. The gearshift surround panel will fit through the console finish panel by rotating it sideways; this will give access to the inside of the console area to inspect the lower boot and trans stub lever assy.

5. Inspect the Gearshift lever assembly for wear or damage. To install, reverse the removal procedure with attention to the following instructions.

Gearshift Boot and Retainer Assembly

Removal and Installation

1. Remove the gearshift lever as gearshift lever removal and installation section.
2. Remove the centre console. For additional information, refer to Section 501-12.
3. Remove the gearshift lever boot by lifting vertically away from the floor.



4. Clean and inspect the boot for wear or damage. To install, reverse the removal procedure.

NOTE: All hardware must be correctly installed and torqued to specification.

