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1994 FORD Escort Cabrio OEM Service and Repair Workshop Manual

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		(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).
TCC (torque converter clutch) always applied/stalls vehicle	TCC (torque converter clutch) solenoid mechanically stuck ON	<p>INSTALL a new TCC (torque converter clutch) solenoid.</p> <p>REFER to: Shift Solenoids (SS)</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p>
	TCC priority valve stuck ON	<p>DISASSEMBLE, CLEAN and INSPECT the TCC (torque converter clutch) priority valve. If the bore or valve is damaged, INSTALL a new main control valve body.</p> <p>REFER to: Main Control Valve Body</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p> <p>REFER to: Main Control Valve Body</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p>
	TCC regulator valve stuck ON	<p>DISASSEMBLE, CLEAN and INSPECT the TCC (torque converter clutch) regulator valve. If the bore or valve is damaged, INSTALL a new main control valve body.</p> <p>REFER to: Main Control Valve Body</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p> <p>REFER to: Main Control Valve Body</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p>
	CONV FD, MDA-TCC, APPLY, REL hydraulic circuit cross leaks	<p>DISASSEMBLE and INSPECT the main control valve body and separator plate passages for cracks, warping, and damage. If damage is found, INSTALL a new main control valve body.</p>

		<p>REFER to: Transmission - 3.5L EcoBoost (BM), Vehicles With: Transmission Fluid Heat Exchanger (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p> <p>REFER to: Transmission - 5.0L 32V Ti-VCT (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p>
<p>TCC cycles, shudders or chatters</p>	<p>Incorrect transmission strategy programmed into the TCM (transmission control module)</p>	<p>CARRY OUT the transmission strategy download and the adaptive learning drive cycle.</p> <p>REFER to: Transmission Strategy Download (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, General Procedures).</p> <p>REFER to: Adaptive Learning Drive Cycle (307-01B Automatic Transmission - 10-Speed Automatic Transmission – 10R80 MHT, General Procedures).</p>
	<p>TCC solenoid mechanically sticking</p>	<p>INSTALL a new TCC (torque converter clutch) solenoid.</p> <p>REFER to: Shift Solenoids (SS) (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p>
	<p>TCC (torque converter clutch) priority valve sticking</p>	<p>DISASSEMBLE, CLEAN and INSPECT the TCC (torque converter clutch) priority valve. If the bore, valve or spring is damaged, INSTALL a new main control valve body.</p> <p>REFER to: Main Control Valve Body (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p> <p>REFER to: Main Control Valve Body (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p>

Installation).

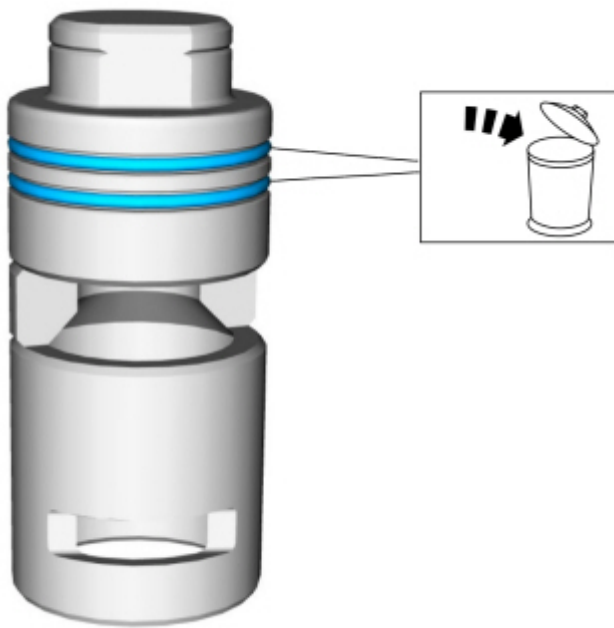
REFER to: [Transmission - 3.3L Duratec-V6](#)
(307-01A Automatic Transmission - 10-Speed
Automatic Transmission – 10R80, Removal and
Installation).

REFER to: [Transmission - 3.5L EcoBoost \(BM\),
Vehicles With: Transmission Fluid Cooler - Air to Oil](#)
(307-01A Automatic Transmission - 10-Speed
Automatic Transmission – 10R80, Removal and
Installation).

REFER to: [Transmission - 3.5L EcoBoost \(BM\),
Vehicles With: Transmission Fluid Cooler - Air to Oil](#)
(307-01A Automatic Transmission - 10-Speed
Automatic Transmission – 10R80, Removal and
Installation).

REFER to: [Transmission - 3.5L EcoBoost \(BM\),
Vehicles With: Transmission Fluid Heat Exchanger](#)
(307-01A Automatic Transmission - 10-Speed
Automatic Transmission – 10R80, Removal and
Installation).

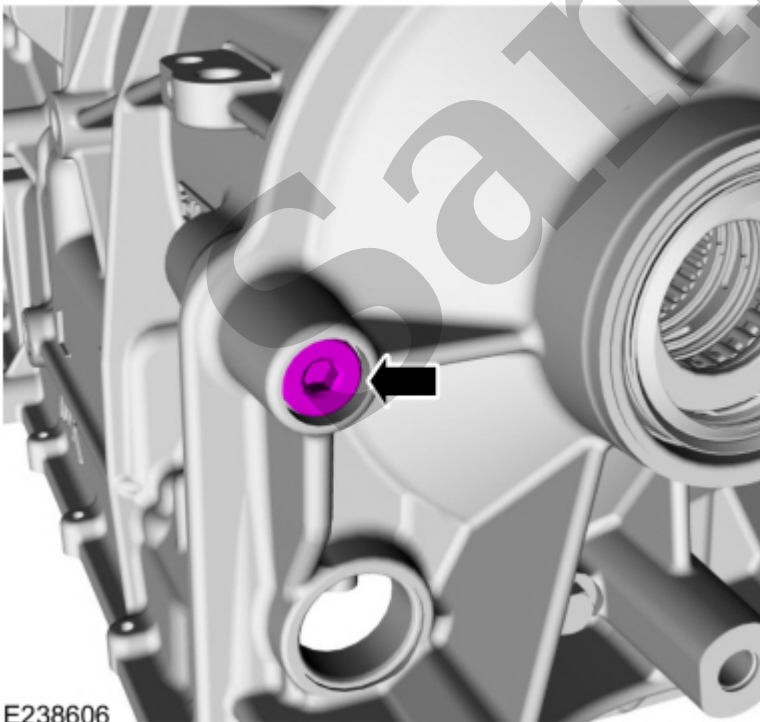
REFER to: [Transmission - 5.0L 32V Ti-VCT](#)
(307-01A Automatic Transmission - 10-Speed
Automatic Transmission – 10R80, Removal and
Installation).



E245550

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

3. Remove the park pawl shaft plug.



E238606

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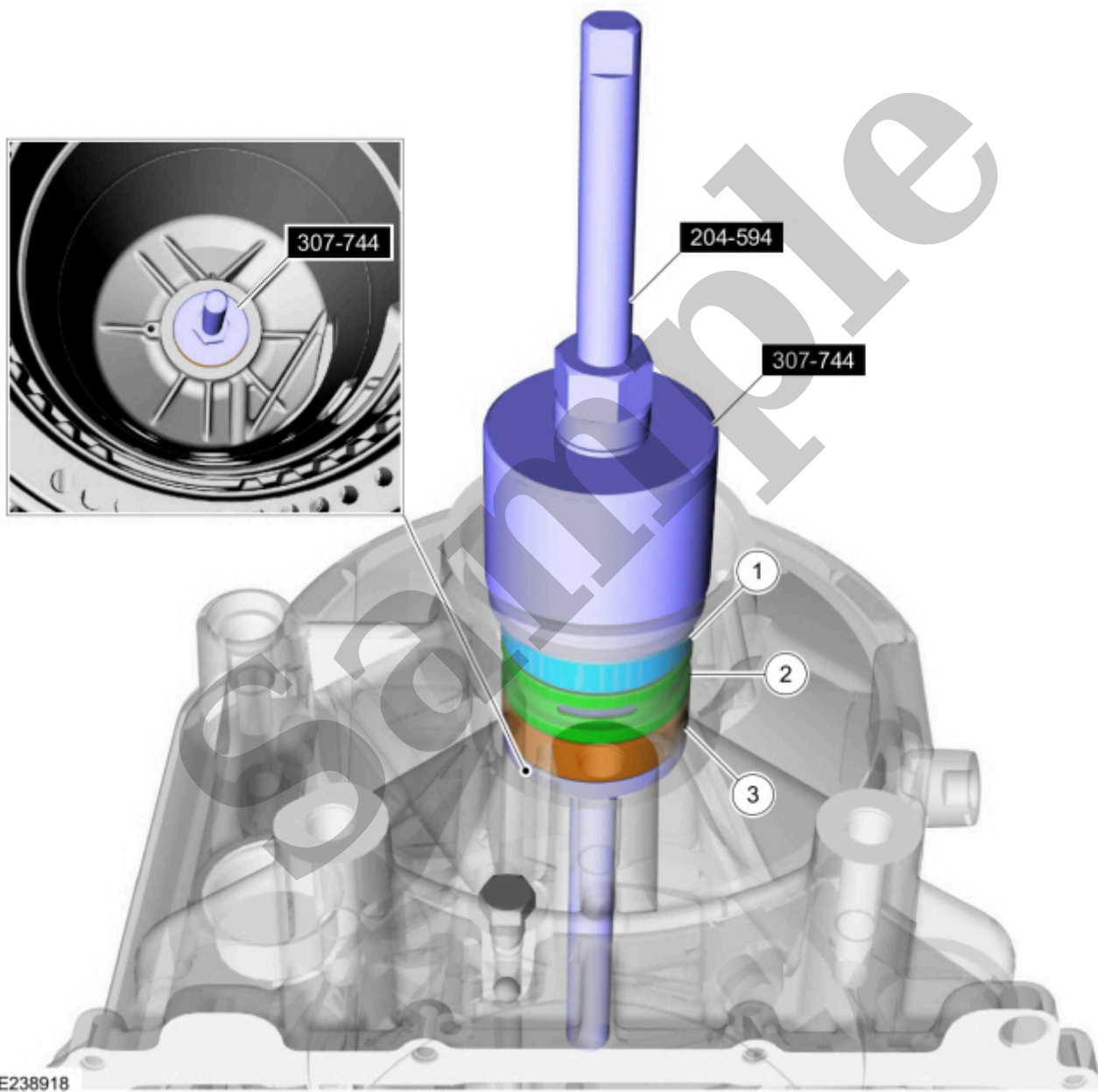
6. Using the special tools, remove the bearings and the fluid passage sleeve.

1. Outer output shaft bearing

Use Special Service Tool : 204-594 Forcing screw , 307-744 Remover, Output Shaft Bearing

2. Fluid passage sleeve

3. Inner output shaft bearing



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10. Repeat Steps 3 through 9 six additional times.

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Sample

NOTICE

Using any transmission fluid other than what is specified can result in the transmission not operating normally or premature transmission failure.

NOTE

Check the transmission fluid level if the transmission starts to slip, shifts slowly or shows signs of transmission fluid leaking.

NOTE

- Adding 4.8L (5 qt) of transmission fluid is an initial fill enabling the engine to be started.
- Filling the transmission to the transmission fluid level indicator area below the crosshatch mark allows the vehicle to be driven.
- Drive the vehicle to allow the transmission fluid temperature to reach 96°C - 101°C (206°F - 215°F) in order to purge the air from the transmission fluid cooling system.
- Fill the transmission fluid to the fill range on the transmission fluid level indicator at the normal operating temperature 96°C - 101°C (206°F - 215°F).

1. Remove the transmission fluid fill plug and remove the transmission fluid level indicator from the plug.

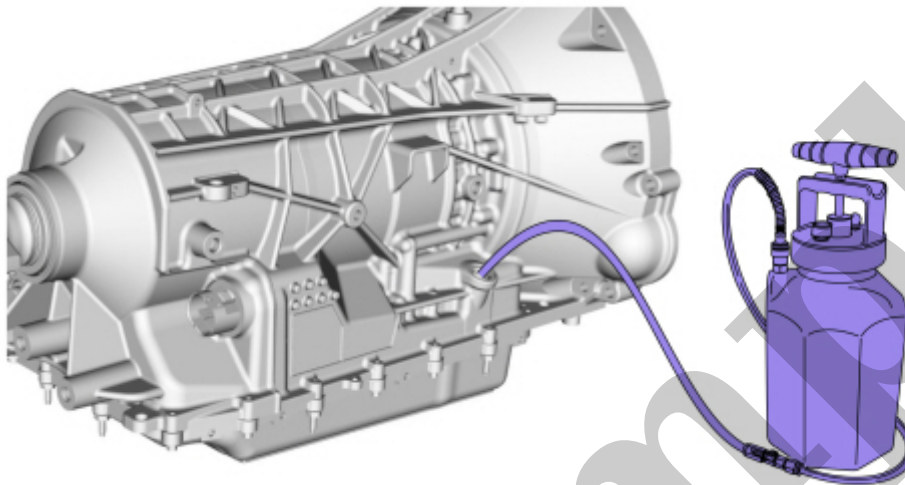
NOTE

The use of a pressurized fluid dispenser with 8-12 qt capacity such as the Mityvac MITMV6412, is recommended for this procedure.

Using the fluid dispenser, add the transmission fluid through the transmission fluid fill hole.

- Use the General Equipment: Universal Fluid Dispenser

Material : Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QULV (WSS-M2C949-A,) (MERCON® ULV)



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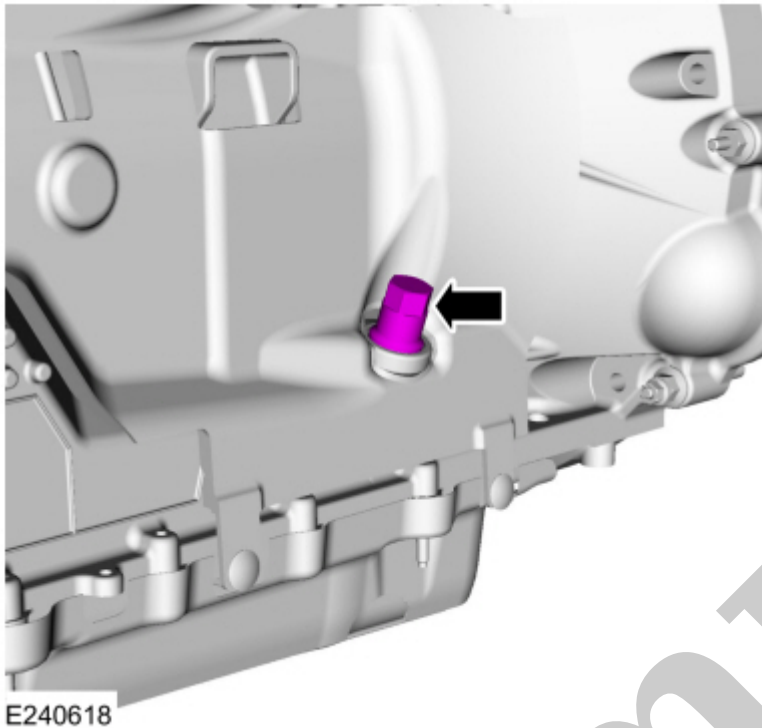
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3. 1. Connect the diagnostic scan tool and monitor the transmission fluid temperature.
 2. Start the engine.
 3. Place the selector lever in PARK and allow the engine to idle at 600-750 rpm.
- Check the transmission fluid level using the transmission fluid level indicator.

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

5. Install the transmission fluid fill plug.

Torque : 35 lb.ft (47 Nm)



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6. Drive the vehicle. While driving the vehicle, use the scan tool to verify the transmission fluid has reached a temperature of 96°C - 101°C (206°F - 215°F). This circulates the transmission fluid through the torque converter and the transmission fluid cooling system, eliminating any trapped air in the transmission fluid cooling system. Place the vehicle in PARK and allow the engine to idle at 600-750 rpm. Verify the transmission fluid temperature is between 96°C - 101°C (206°F - 215°F) and lift the vehicle on a hoist.

Refer to: [Jacking and Lifting - Overview](#)(100-02 Jacking and Lifting, Description and Operation).

7. Remove the transmission fluid fill plug and remove the transmission fluid level indicator from the plug.