

Torque Converter Clutch (TCC)

Torque Converter Clutch (TCC)

For torque converter operation,
 REFER to: [Torque Converter](#) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Description and Operation).

Condition	Possible Sources	Action
<u>TCC</u> does not apply	TCC solenoid mechanically stuck OFF	INSTALL a new <u>TCC</u> solenoid. REFER to: Shift Solenoids (SS) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	TCC Regulator Valve stuck OFF	DISASSEMBLE, CLEAN and INSPECT the regulator valve. If bore or valve is damaged, INSTALL a new main control valve body. REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	CONV FD, MDA-TCC, APPLY, REL hydraulic circuit blocked or leaking	DISASSEMBLE, CLEAN and INSPECT the valves. If bore or valve is damaged, INSTALL a new main control. REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	TCC friction material worn or damaged	INSTALL a new <u>TCC</u> . REFER to: Transmission (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	TCC solenoid dampner missing or damaged.	DISASSEMBLE, CLEAN and INSPECT the <u>TCC</u> solenoid dampner. If dampner is missing or damaged, INSTALL a new main control valve body. REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic

		Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	Converter feed blow-off valve missing.	DISASSEMBLE, CLEAN and INSPECT the converter feed blow-off valve, if missing INSTALL a new main control. REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
TCC always applied/stalls vehicle	TCC solenoid mechanically stuck ON, TCC regulator valve spring broken or spring stuck in the compressed position.	INSTALL a new TCC solenoid. REFER to: Shift Solenoids (SS) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). TCC solenoid mechanically stuck OFF REFER to: Transmission Strategy Download (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures). If TCC regulator valve spring is broken, stuck or missing, INSTALL a new main control. REFER to: Main Control Valve Body (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Overhaul). REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	TCC Regulator Valve stuck ON	DISASSEMBLE, CLEAN and INSPECT the regulator valve. If bore or valve is damaged, INSTALL a new main control valve body. REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	TCC friction material worn or damaged	INSTALL a new TCC. REFER to: Transmission (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	CONV FD, MDA-TCC, APPLY, REL hydraulic circuit blocked or leaking	DISASSEMBLE, CLEAN and INSPECT the valves. If bore or valve is damaged, INSTALL a new main control. REFER to: Main Control Valve Body (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Overhaul).

		REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
TCC cycles, shudders or chatters	Incorrect transmission strategy programmed into the <u>TCM</u>	PERFORM the Transmission Strategy Download, REFER to: Transmission Strategy Download (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).
	TCC solenoid mechanically sticking	INSTALL a new <u>TCC</u> solenoid. REFER to: Shift Solenoids (SS) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	TCC Regulator Valve stuck ON	DISASSEMBLE, CLEAN and INSPECT the regulator valve. If bore or valve is damaged, INSTALL a new main control valve body. REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	CONV FD, MDA-TCC, APPLY, REL hydraulic circuit blocked or leaking	DISASSEMBLE, CLEAN and INSPECT the valves. If bore or valve is damaged, INSTALL a new main control. REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). REFER to: Main Control Valve Body - Vehicles With: Auto-Start-Stop (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	<u>TCC</u> friction material worn or damaged	INSTALL a new <u>TCC</u> . REFER to: Transmission (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).

