

Torque Converter Clutch (TCC)

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

Condition	Possible Sources	Action
TCC does not apply	TCC solenoid mechanically stuck OFF	INSTALL a new TCC solenoid. REFER to: Shift Solenoids (SS) (307-01B 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 (307-01B 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 (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).

	TCC friction material worn or damaged	INSTALL a new TCC. REFER to: Transmission - 2.7L EcoBoost (238kW/324PS) (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	TCC solenoid dampner missing or damaged.	DISASSEMBLE, CLEAN and INSPECT the TCC solenoid dampner. If dampner is missing or damaged, INSTALL a new main control valve body. REFER to: Main Control Valve Body (307-01B 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 (307-01B 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) (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). TCC solenoid mechanically stuck OFF REFER to: Transmission Strategy Download (307-01B 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 (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Overhaul). REFER to: Main Control Valve Body

		(307-01B 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 (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
	TCC friction material worn or damaged	INSTALL a new TCC. REFER to: Transmission - 2.7L EcoBoost (238kW/324PS) (307-01B 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 (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Overhaul). REFER to: Main Control Valve Body (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
TCC cycles, shudders or chatters	Incorrect transmission strategy programmed into the TCM	PERFORM the Transmission Strategy Download, REFER to: Transmission Strategy Download (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).

TCC solenoid mechanically sticking	INSTALL a new TCC solenoid. REFER to: Shift Solenoids (SS) (307-01B 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 (307-01B 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 (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
TCC friction material worn or damaged	INSTALL a new TCC. REFER to: Transmission - 2.7L EcoBoost (238kW/324PS) (307-01B Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).