

Forward Clutch Assembly

Forward Clutch

For forward clutch operation,

REFER to: Forward Clutch Assembly (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Description and Operation).

For hydraulic circuit identification,

REFER to: Transmission Description - System Operation and Component Description (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Description and Operation).

Forward Clutch

Condition	Possible Sources	Action
Forward clutch does not apply	SSA mechanically stuck OFF	INSTALL a new solenoid. REFER to: Shift Solenoids (SS) (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation).
	Clutch A regulator valve stuck OFF	DISASSEMBLE, CLEAN and INSPECT the clutch A regulator valve. If the bore or valve is damaged, INSTALL a new main control valve body. REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation). REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	CL A, DRIVE, VFS1 hydraulic circuits blocked/leaking	DISASSEMBLE and INSPECT the main control valve body and separator plate passages for debris/blockage/damage. CLEAN as necessary. REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation). REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Input shaft, input shaft Teflonâ„¢ seals, forward clutch drum	DISASSEMBLE and INSPECT the components for wear and damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Forward clutch friction plates	DISASSEMBLE and INSPECT the forward clutch friction and steel plates. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Forward clutch piston seals	DISASSEMBLE and INSPECT the forward clutch piston seals for damage and wear. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
Forward clutch always applied	SSA mechanically stuck ON	INSTALL a new solenoid. REFER to: Shift Solenoids (SS) (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation).

	Clutch A regulator valve stuck ON	DISASSEMBLE, CLEAN and INSPECT the clutch A regulator valve. If the bore or valve is damaged, INSTALL a new main control valve body. REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation). REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation).
	CL A, DRIVE, VFS1 hydraulic circuits blocked/leaking	DISASSEMBLE and INSPECT the main control valve body and separator plate passages for debris/blockage/damage. CLEAN as necessary. REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation). REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Forward clutch friction plates	DISASSEMBLE and INSPECT the forward clutch friction and steel plates. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Forward clutch piston return spring	DISASSEMBLE and INSPECT the forward clutch piston return spring for damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
Forward clutch delayed/soft/slipping apply	Incorrect transmission strategy programmed into PCM.	CARRY OUT the Transmission Strategy Download, REFER to: Transmission Strategy Download (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, General Procedures).
	SSA mechanically sticking	INSTALL a new solenoid. REFER to: Shift Solenoids (SS) (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation).
	Clutch A regulator valve or latch valve sticking	DISASSEMBLE, CLEAN and INSPECT the clutch A regulator and latch valves. If the bore or valve is damaged, INSTALL a new main control valve body. REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation). REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation).
	CL A, DRIVE, VFS1 hydraulic circuits blocked/leaking	DISASSEMBLE and INSPECT the main control valve body and separator plate passages for debris/blockage/damage. CLEAN as necessary. REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation). REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Input shaft, input shaft Teflonâ„¢ seals, forward clutch drum	DISASSEMBLE and INSPECT the components for wear and damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Forward clutch friction plates	DISASSEMBLE and INSPECT the forward clutch friction and steel plates. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Forward clutch piston seals	DISASSEMBLE and INSPECT the forward clutch piston seals for damage and wear. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).

Forward clutch harsh apply	Incorrect transmission strategy programmed into PCM.	CARRY OUT the Transmission Strategy Download, REFER to: Transmission Strategy Download (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, General Procedures).
	SSA mechanically sticking	INSTALL a new solenoid. REFER to: Shift Solenoids (SS) (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation).
	Clutch A regulator valve or latch valve sticking	DISASSEMBLE, CLEAN and INSPECT the clutch A regulator and latch valves. If the bore or valve is damaged, INSTALL a new main control valve body. REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation). REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation).
	CL A, DRIVE, VFS1 hydraulic circuits blocked/leaking	DISASSEMBLE and INSPECT the main control valve body and separator plate passages for debris/blockage/damage. CLEAN as necessary. REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Removal and Installation). REFER to: Main Control Valve Body (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Input shaft, input shaft Teflonâ„¢ seals, forward clutch drum	DISASSEMBLE and INSPECT the components for wear and damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Forward clutch friction plates	DISASSEMBLE and INSPECT the forward clutch friction and steel plates. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).
	Forward clutch piston return spring	DISASSEMBLE and INSPECT the forward clutch piston return spring for damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, Overhaul).