

Low/Reverse Clutch Assembly

Low/Reverse Clutch

For low/reverse clutch operation,

REFER to: Low/Reverse 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).

Low/Reverse Clutch

Condition	Possible Sources	Action
Low/Reverse clutch does not apply	SSD solenoid filter blocked	CLEAN or 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).
	SSD is 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 D1 regulator valve stuck OFF	DISASSEMBLE, CLEAN and INSPECT the clutch D1 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).
	VFS4, CL DC, CL D1 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).
	Shift solenoid control check ball missing/damaged	REMOVE and DISASSEMBLE the main control valve body. INSPECT all check balls for missing/damage. 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).
	Multiplex shift valve stuck in default position	DISASSEMBLE, CLEAN and INSPECT the multiplex shift 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).

	Center support, rear planetary carrier	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).
	Low/Reverse clutch friction plates	DISASSEMBLE and INSPECT the low/reverse 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).
	Low/Reverse clutch piston seals	DISASSEMBLE and INSPECT the low/reverse 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).
Low/Reverse clutch always applied	SSD solenoid filter seal damaged	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).
	SSD 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 D1 regulator valve stuck ON	DISASSEMBLE, CLEAN and INSPECT the clutch D1 regulator valve and spring. 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).
	VFS4, CL DC, CL D1 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).
	Low One-Way Clutch (OWC)	INSPECT the low one-way clutch (OWC) for free rotation in over-run direction. 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).
	Low/Reverse clutch friction plates	DISASSEMBLE and INSPECT the low/reverse 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).
	Low/Reverse clutch piston return spring	DISASSEMBLE and INSPECT the low/reverse 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).
	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).
Low/Reverse clutch delayed/soft/slipping apply	SSD filter blocked	CLEAN or 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).
	SSD 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 D1 regulator valve sticking	DISASSEMBLE, CLEAN and INSPECT the clutch D1 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).
	Clutch D1 and clutch D2 latch valves sticking	DISASSEMBLE, CLEAN and INSPECT the clutch D1 and clutch D2 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, Overhaul).
	VFS4, CL DC, CL D1 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).
	Shift solenoid control check ball missing/damaged	REMOVE and DISASSEMBLE the main control valve body. INSPECT all check balls for missing/damage. 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).
	Low/Reverse clutch friction plates	DISASSEMBLE and INSPECT the low/reverse 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).
	Low/Reverse clutch piston seals	DISASSEMBLE and INSPECT the low/reverse clutch piston seals. 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).
Low/Reverse 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).
	SSD 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 D1 regulator valve sticking	DISASSEMBLE, CLEAN and INSPECT the clutch D1 regulator valve and spring. If the bore, valve or spring 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).
	Clutch D1 and clutch D2 latch valves sticking	DISASSEMBLE, CLEAN and INSPECT the clutch D1 and clutch D2 latch valves and springs. If the bore, valve or spring 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).

VFS4, CL DC, CL D1 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).
Low/Reverse clutch friction plates	DISASSEMBLE and INSPECT the low/reverse 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).
Low/Reverse clutch piston return spring	DISASSEMBLE and INSPECT the low/reverse clutch piston return spring. 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).

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