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2017 FORD Flex OEM Service and Repair Workshop Manual

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	Installation).
B clutch latch valve stuck OFF	<p>DISASSEMBLE, CLEAN and INSPECT the B clutch latch valve. If the bore or valve 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>DISASSEMBLE and INSPECT the main control valve body and separator plate passages for debris, blockage and leaks. CLEAN as necessary.</p> <p>REFER to: Main Control Valve Body (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p>
B clutch hydraulic circuit blocked/leaking	<p>CARRY OUT the air pressure test on the B clutch.</p> <p>REFER to: Special Testing Procedures (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Diagnosis and Testing).</p> <p>If a leak is detected, INSPECT the front support assembly and B clutch piston seals for leaks. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).</p>
Front support assembly, sun gear no. 1	<p>DISASSEMBLE and INSPECT the front support assembly hydraulic passages for debris, blockage and leaks. INSPECT the front support assembly and sun gear no. 1 for wear and damage. CLEAN or INSTALL new components as necessary.</p> <p>REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).</p>
B clutch piston seals	<p>DISASSEMBLE and INSPECT the B clutch piston seals for wear and damage. INSTALL new</p>

		Installation).
	Front support assembly, sun gear no. 1	DISASSEMBLE and INSPECT the components for wear and damage. INSTALL new components necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).
	B clutch separating springs	DISASSEMBLE and INSPECT the B clutch separating springs for damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).
	B clutch friction plates	DISASSEMBLE and INSPECT the B clutch friction and steel plates for wear and damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).
B clutch delayed/soft/slipping apply	Incorrect transmission strategy programmed into PCM (powertrain control module) / TCM (transmission control module) .	CARRY OUT the Transmission Strategy Download and the Adaptive Learning Drive Cycle. REFER to: Transmission Strategy Download (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, General Procedures). REFER to: Adaptive Learning Drive Cycle (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, General Procedures).
	Low line pressure	CARRY OUT the line pressure test. If line pressure is low, REFER to the Line Pressure Diagnosis Chart. REFER to: Special Testing Procedures (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Diagnosis and Testing).

	<p>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>B clutch latch valve sticking</p>	<ul style="list-style-type: none"> • CARRY OUT the PCM (powertrain control module) / TCM (transmission control module) - Transmission Accelerated Main Control Break In Routine 3 times using the diagnostic scan tool. • CARRY OUT the adaptive learning drive cycle procedure. REFER to: Adaptive Learning Drive Cycle(307-01B Automatic Transmission - 10-Speed Automatic Transmission – 10R80 MHT, General Procedures). • If the Transmission Accelerated Main Control Break In Routine and adaptive learning drive cycle procedure do not correct the fault, DISASSEMBLE, CLEAN and INSPECT the B clutch latch 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 - 10-Speed Automatic Transmission – 10R80, Removal and Installation).
<p>B clutch hydraulic circuits blocked/leaking</p>	<p>DISASSEMBLE and INSPECT the main control valve body and separator plate passages for debris, blockage and leaks. CLEAN as necessary.</p> <p>REFER to: Main Control Valve Body (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p> <p>CARRY OUT the air pressure test on the B clutch.</p>

Testing).

SSB (shift solenoid B)
mechanically sticking

- CARRY OUT the PCM (powertrain control module) / TCM (transmission control module) - Transmission Accelerated Main Control Break In Routine
3 times
using the diagnostic scan tool.
- CARRY OUT the adaptive learning drive cycle procedure.
REFER to: [Adaptive Learning Drive Cycle](#)(307-01B Automatic Transmission - 10-Speed Automatic Transmission – 10R80 MHT, General Procedures).
- If the Transmission Accelerated Main Control Break In Routine and adaptive learning drive cycle procedure do not correct the fault, INSTALL a new solenoid.
REFER to: [Shift Solenoids \(SS\)](#)(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).

B clutch control valve sticking

- CARRY OUT the PCM (powertrain control module) / TCM (transmission control module) - Transmission Accelerated Main Control Break In Routine
3 times
using the diagnostic scan tool.
- CARRY OUT the adaptive learning drive cycle procedure.
REFER to: [Adaptive Learning Drive Cycle](#)(307-01B Automatic Transmission - 10-Speed Automatic Transmission – 10R80 MHT, General Procedures).
- If the Transmission Accelerated Main Control Break In Routine and adaptive learning drive cycle procedure do not correct the fault, DISASSEMBLE, CLEAN and INSPECT the B

	B clutch separating springs	DISASSEMBLE and INSPECT the B clutch separating springs for damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).
	B clutch friction plates	DISASSEMBLE and INSPECT the B clutch friction and steel plates for wear and damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).

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Sample

	Installation).
C clutch latch valve stuck OFF	<p>DISASSEMBLE, CLEAN and INSPECT the C clutch latch valve. If the bore or valve 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>DISASSEMBLE and INSPECT the main control valve body and separator plate passages for debris, blockage and leaks. CLEAN as necessary.</p> <p>REFER to: Main Control Valve Body (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p>
C clutch hydraulic circuit blocked/leaking	<p>CARRY OUT the air pressure test on the C clutch.</p> <p>REFER to: Special Testing Procedures (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Diagnosis and Testing).</p> <p>If a leak is detected, INSPECT the front support assembly, input shaft Teflon seals, CDF clutch cylinder and C clutch piston seals for leaks. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).</p>
CDF clutch cylinder, ring gear no. 2, sun gear no. 3	<p>DISASSEMBLE and INSPECT the CDF clutch cylinder, ring gear no. 2 and sun gear no. 3 for wear and damage. INSTALL new components as necessary.</p> <p>REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).</p>
C clutch piston seals	<p>DISASSEMBLE and INSPECT the C clutch piston seals for wear and damage. INSTALL new components as necessary.</p>

	CDF clutch cylinder, ring gear no. 2	<p>DISASSEMBLE and INSPECT the components for wear and damage. INSTALL new components as necessary.</p> <p>REFER to: Transmission</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).</p>
	C clutch piston return spring	<p>DISASSEMBLE and INSPECT the C clutch piston return spring for damage. INSTALL new components as necessary.</p> <p>REFER to: Transmission</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).</p>
	C clutch friction plates	<p>DISASSEMBLE and INSPECT the C clutch friction and steel plates for wear and damage. INSTALL new components as necessary.</p> <p>REFER to: Transmission</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).</p>
C clutch delayed/soft/slipping apply	Incorrect transmission strategy programmed into PCM (powertrain control module) / TCM (transmission control module) .	<p>CARRY OUT the Transmission Strategy Download and the Adaptive Learning Drive Cycle.</p> <p>REFER to: Transmission Strategy Download</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, General Procedures).</p> <p>REFER to: Adaptive Learning Drive Cycle</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, General Procedures).</p>
	Low line pressure	<p>CARRY OUT the line pressure test. If line pressure is low, REFER to the Line Pressure Diagnosis Chart.</p> <p>REFER to: Special Testing Procedures</p> <p>(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Diagnosis and Testing).</p>

	<p>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>C clutch latch valve sticking</p>	<ul style="list-style-type: none"> • CARRY OUT the PCM (powertrain control module) / TCM (transmission control module) - Transmission Accelerated Main Control Break In Routine 3 times using the diagnostic scan tool. • CARRY OUT the adaptive learning drive cycle procedure. REFER to: Adaptive Learning Drive Cycle(307-01B Automatic Transmission - 10-Speed Automatic Transmission – 10R80 MHT, General Procedures). • If the Transmission Accelerated Main Control Break In Routine and adaptive learning drive cycle procedure do not correct the fault, DISASSEMBLE, CLEAN and INSPECT the C clutch latch 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 - 10-Speed Automatic Transmission – 10R80, Removal and Installation).
<p>C clutch hydraulic circuits blocked/leaking</p>	<p>DISASSEMBLE and INSPECT the main control valve body and separator plate passages for debris, blockage and leaks. CLEAN as necessary.</p> <p>REFER to: Main Control Valve Body (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).</p>
	<p>CARRY OUT the air pressure test on the C clutch.</p>

(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Diagnosis and Testing).

SSC (shift solenoid C)
mechanically sticking

- CARRY OUT the PCM (powertrain control module) / TCM (transmission control module) - Transmission Accelerated Main Control Break In Routine
3 times
using the diagnostic scan tool.
- CARRY OUT the adaptive learning drive cycle procedure.
REFER to: [Adaptive Learning Drive Cycle](#)(307-01B Automatic Transmission - 10-Speed Automatic Transmission – 10R80 MHT, General Procedures).
- If the Transmission Accelerated Main Control Break In Routine and adaptive learning drive cycle procedure do not correct the fault, INSTALL a new solenoid.
REFER to: [Shift Solenoids \(SS\)](#)(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).

C clutch control valve sticking

- CARRY OUT the PCM (powertrain control module) / TCM (transmission control module) - Transmission Accelerated Main Control Break In Routine
3 times
using the diagnostic scan tool.
- CARRY OUT the adaptive learning drive cycle procedure.
REFER to: [Adaptive Learning Drive Cycle](#)(307-01B Automatic Transmission - 10-Speed Automatic Transmission – 10R80 MHT, General Procedures).
- If the Transmission Accelerated Main Control Break In Routine and adaptive learning drive