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2018 FORD Flex OEM Service and Repair Workshop Manual

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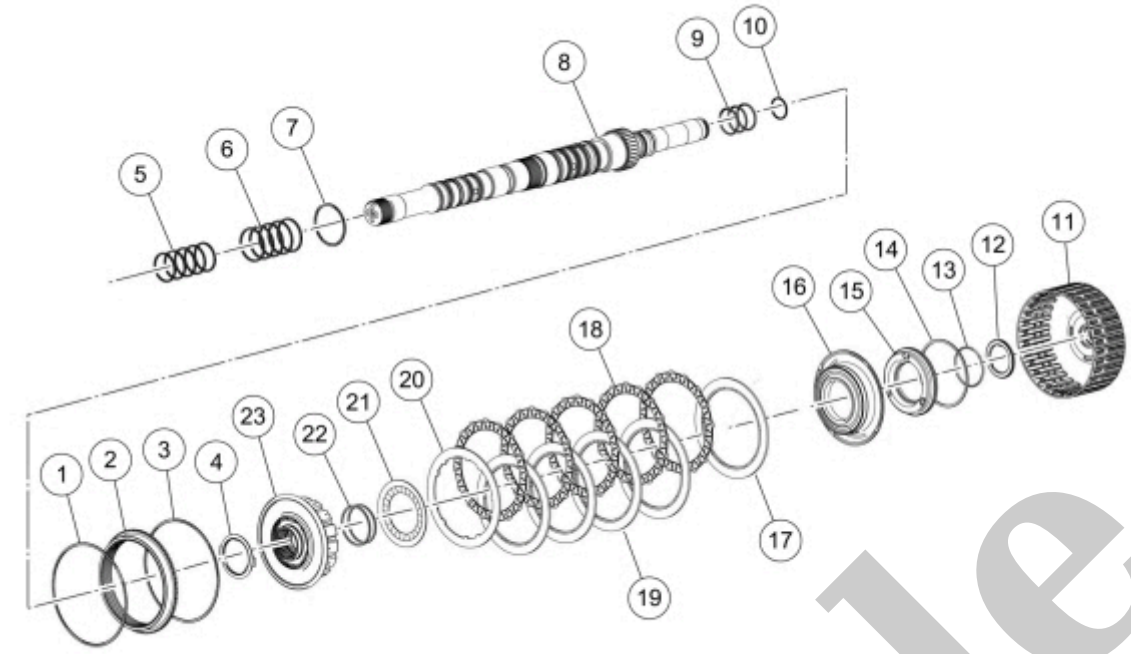
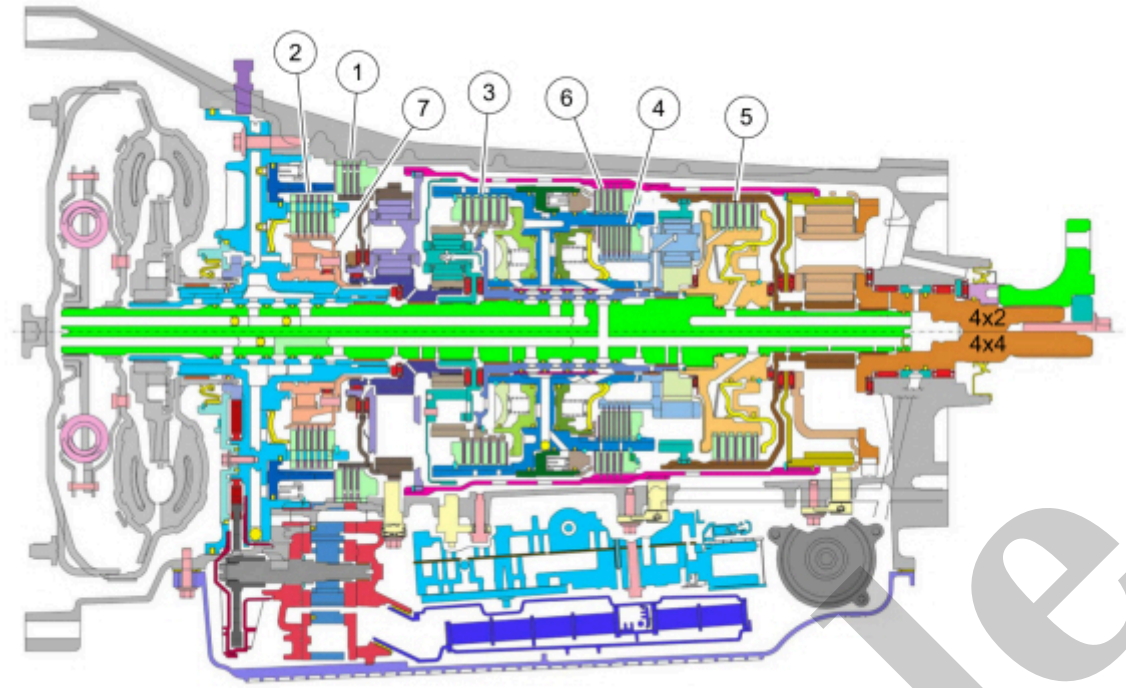
23	7H359	C clutch (direct) balance dam
24	7B488	C clutch (direct) piston return spring
25	7C117	C clutch (direct) piston
26	7G444	C clutch (direct) piston inner seal
27	7C000	C clutch (direct) piston outer seal
28	7H351	CDF clutch cylinder
29	7D063	Sun gear No. 3
30	7D006	Planetary carrier No. 3
31	7B421	D clutch (low) snap ring
32	7G486	D clutch (low) pressure plate
33	7E312	D clutch (low) friction plates (quantity model dependent)
34	7G474	D clutch (low) steel plates (quantity model dependent)
35	7P176	D clutch (low) apply ring
36	7B492	D clutch (low) balance dam retainer
37	7D343	D clutch (low) balance dam
38	7D405	D clutch (low) piston return spring
39	7D402	D clutch (low) piston
40	7G445	D clutch (low) piston outer seal
41	7G444	D clutch (low) piston inner seal
42	7P200	F clutch (high) keeper snap ring
43	7H318	F clutch (high) snap ring keeper



E233605

Item	Part Number	Description
1	7H361	Ring gear No. 3 outer snap ring
2	7H053	Ring gear No. 3
3	7H361	Ring gear No. 3 inner snap ring
4	7F373	Thrust bearing (T6)
5	7G091-A	Input shaft front Teflon® seals (5 required)
6	7G091-B	Input shaft-to-sun gear No 3 shaft Teflon® seals (5 required)
7	7J410	Input shaft snap ring
8	7015	Input shaft
9	7G242	Input shaft D-ring seals (3 required)
10	7G091	Input shaft Teflon® seal
11	7D062	Shell and sun gear No. 4



E233607

Item	Part Number	Description
1	—	A clutch assembly
2	—	B clutch assembly
3	—	C clutch assembly
4	—	D clutch assembly
5	—	E clutch assembly
6	—	F clutch assembly
7	—	One-Way Clutch (OWC)

2	Transmission fluid auxiliary pump tube
3	Transmission fluid auxiliary pump tube seal
4	Transmission fluid auxiliary pump tube O-ring
5	Transmission fluid auxiliary pump fluid inlet

10-speed transmissions with the auto-start stop feature are equipped with a transmission fluid auxiliary pump. This electronic pump is turned on before an engine stop event; allowing the transmission to remain engaged during the stop event. This allows quick response on the engine restart because the transmission is already in gear. The transmission fluid auxiliary pump does not have sufficient flow to apply clutches, but can keep clutches on when the engine stops and the main hydraulic pump stops providing pressure.

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

		Installation).
	Front support assembly, ring gear no. 1	DISASSEMBLE and INSPECT the front support assembly hydraulic passages for debris, blockage and leaks. Inspect the front support assembly and ring gear no. 4 for wear and damage. CLEAN or INSTALL new components necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).
	A clutch piston return spring	DISASSEMBLE and INSPECT the A clutch piston return spring for damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).
	A clutch friction plates	DISASSEMBLE and INSPECT the A 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).
A 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

		clutch control 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).
	A clutch latch 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 A 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).
	A clutch hydraulic circuits blocked/leaking	DISASSEMBLE and INSPECT the main control valve body and separator plate passages for debris, blockage and leaks. CLEAN as necessary. REFER to: Main Control Valve Body (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation).

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

		Installation).
	A clutch piston return spring	DISASSEMBLE and INSPECT the A clutch piston return spring for damage. INSTALL new components as necessary. REFER to: Transmission (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Overhaul).
	A clutch friction plates	DISASSEMBLE and INSPECT the A 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).