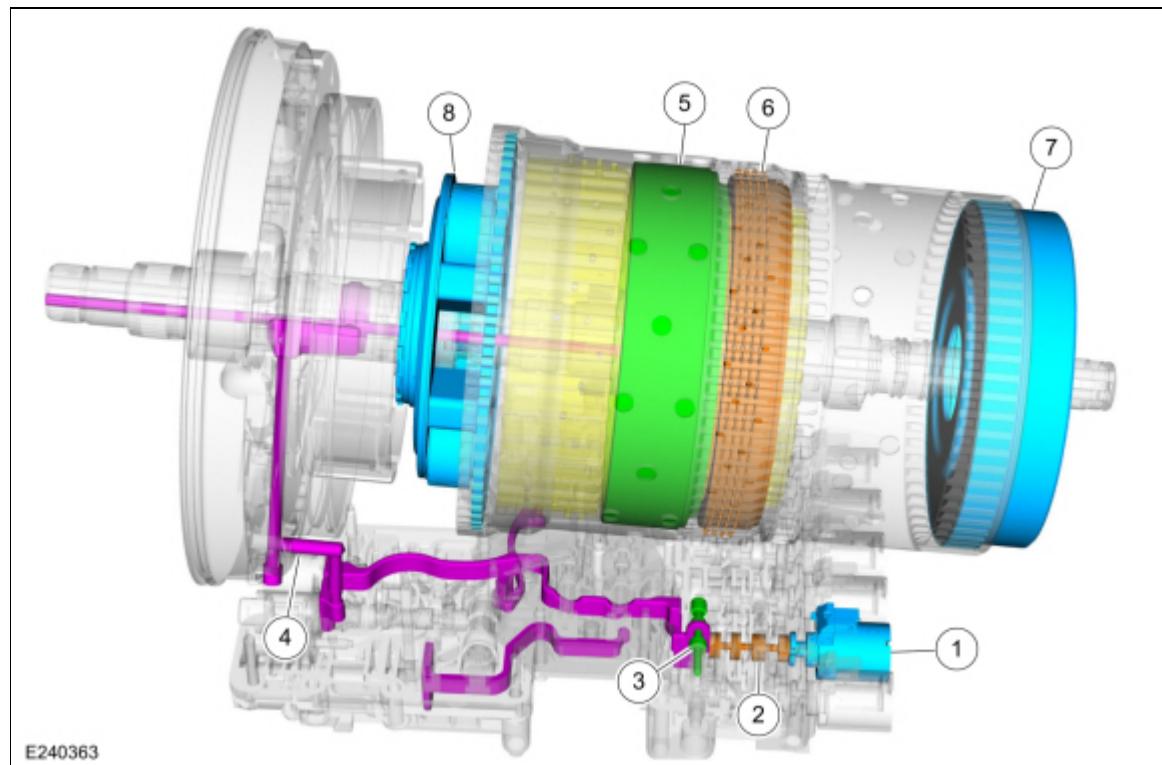
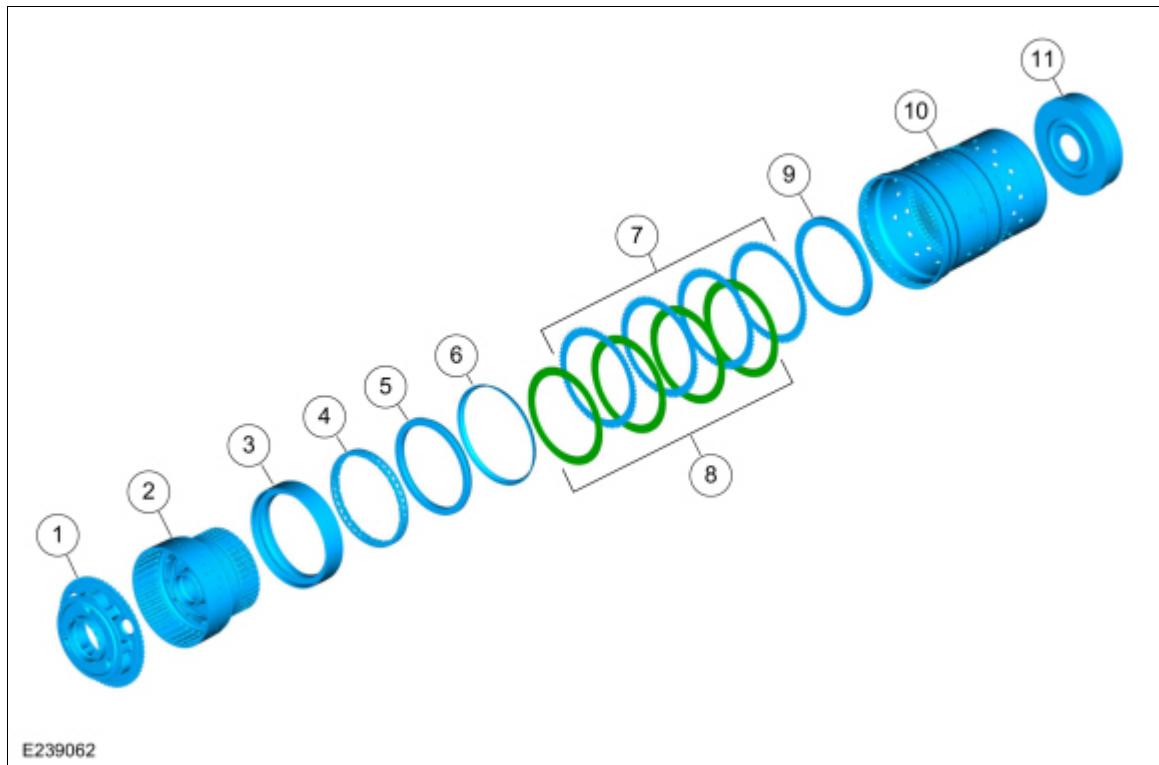


F Clutch**Overview**

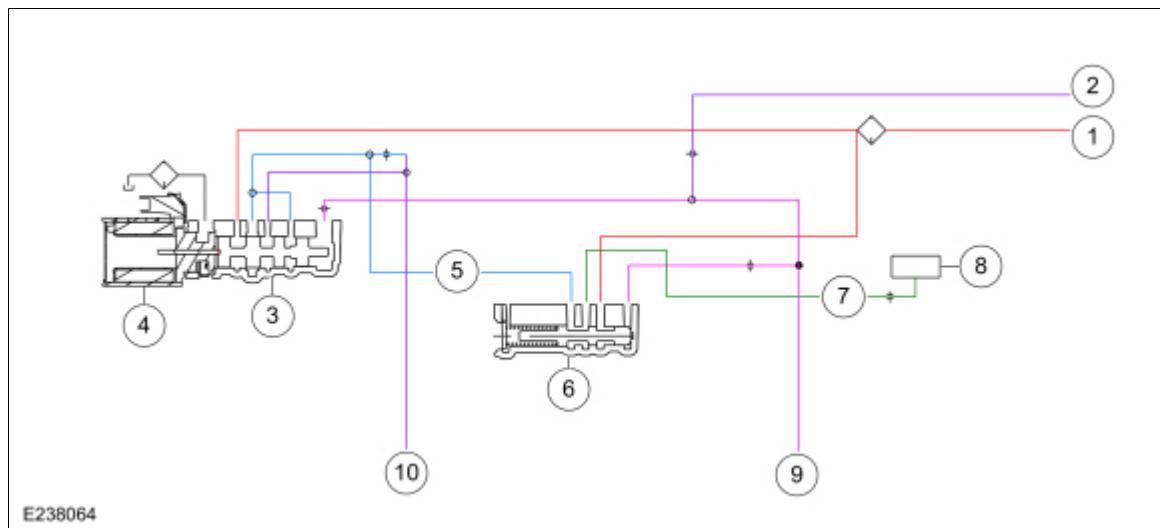
Item	Description
1	<u>SSF</u>
2	F clutch control valve
3	F clutch latch valve
4	F clutch apply circuit
5	F clutch piston
6	F clutch assembly
7	Ring gear No. 4
8	Planetary carrier No. 1

Ring gear No. 4 is mechanically connected to planetary carrier No. 1 and connected to the F clutch. When the F clutch applies, the ring gear No. 4 may be connected to ring gear No. 2 through the C clutch. Ring gear No. 4 may also connect to planetary carrier No. 3 through the D clutch.

F Clutch Exploded View

Item	Description
1	Planetary carrier No. 1
2	CDF clutch cylinder
3	F clutch piston
4	F clutch piston return spring
5	F clutch balance dam
6	F clutch apply ring
7	F clutch friction plates
8	F clutch steel plates
9	F Clutch pressure plate
10	Cylinder (clutch and planetary container)
11	Ring gear No. 4

F Clutch Hydraulic Circuits

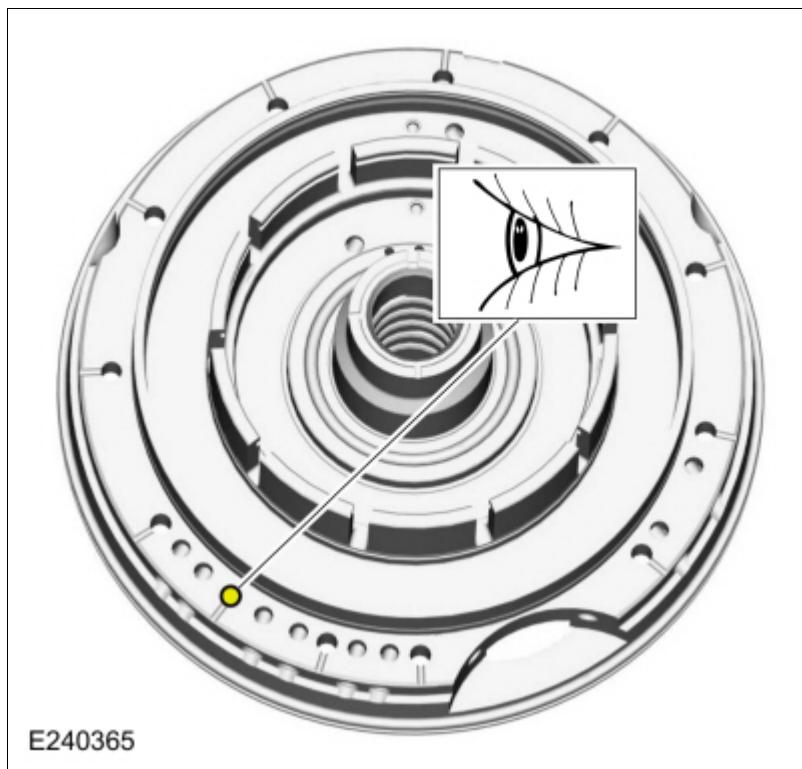
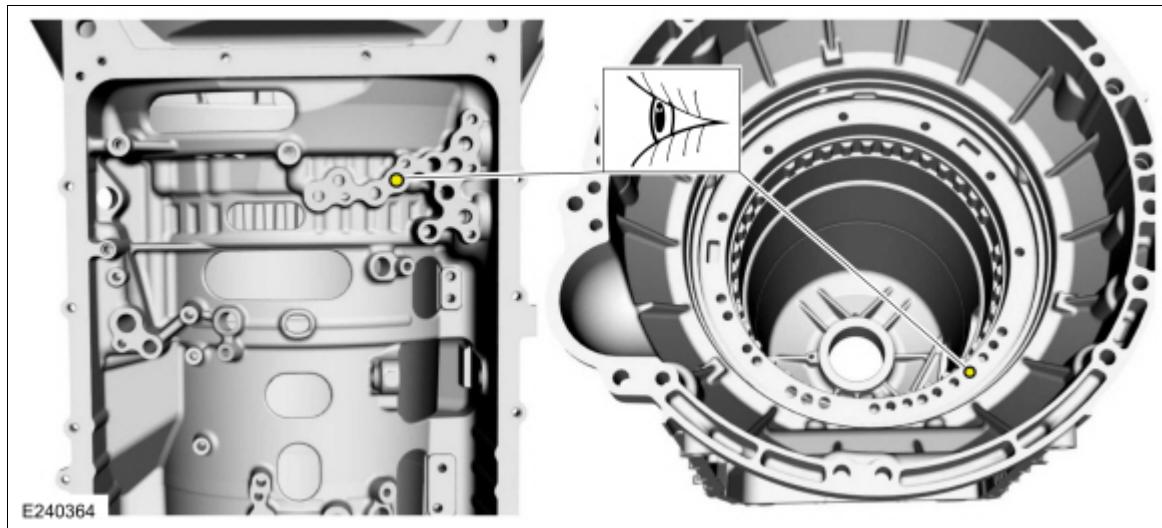


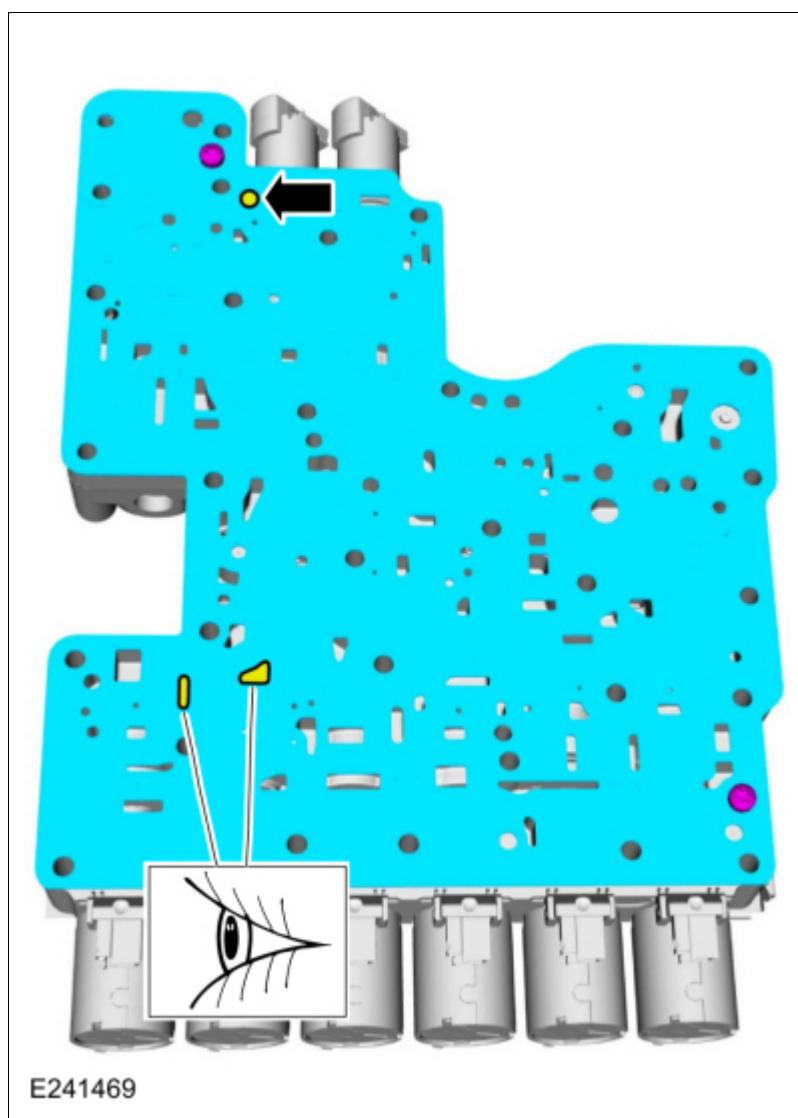
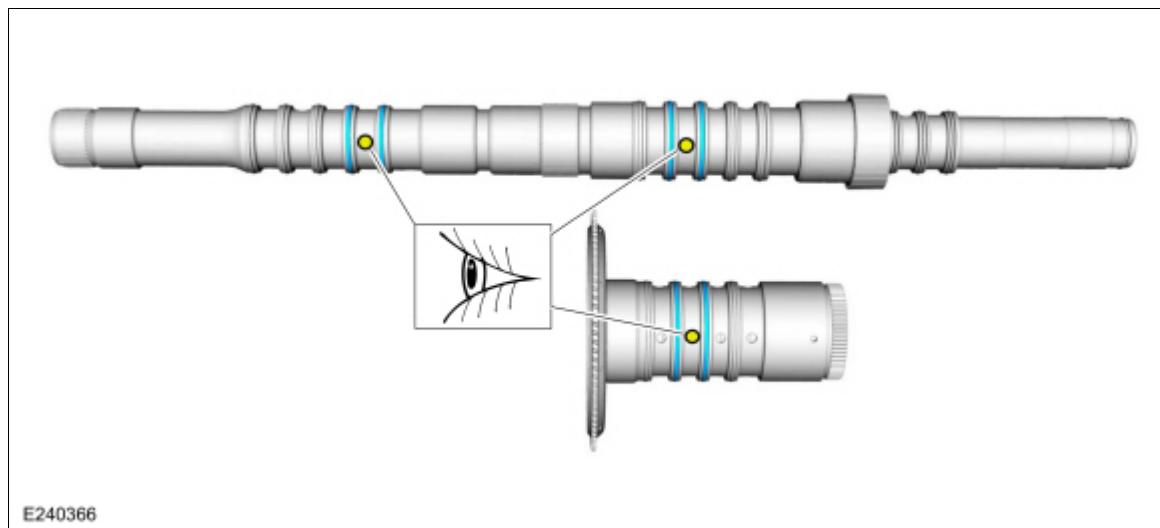
Item	Description
1	Line pressure
2	Pump output
3	F clutch control valve
4	<u>SSF</u>
5	Control pressure to latch valve
6	F clutch latch valve
7	Apply pressure to mechanical F clutch
8	Mechanical F clutch
9	Elevated exhaust pressure
10	Clutch exhaust

F Clutch Hydraulic Operation

Line pressure is supplied to the F clutch control valve and the F clutch latch valve. As SSF turns on, it moves the control valve allowing regulated line pressure to flow to the F clutch latch valve and then to the mechanical F clutch. When the regulated line pressure in the F clutch control circuit reaches approximately 100 psi, the mechanical F clutch is fully applied. The pressure in the F clutch control circuit moves the F clutch latch valve to the left which allows line pressure to hold the mechanical F clutch applied.

F Clutch Hydraulic Passages





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