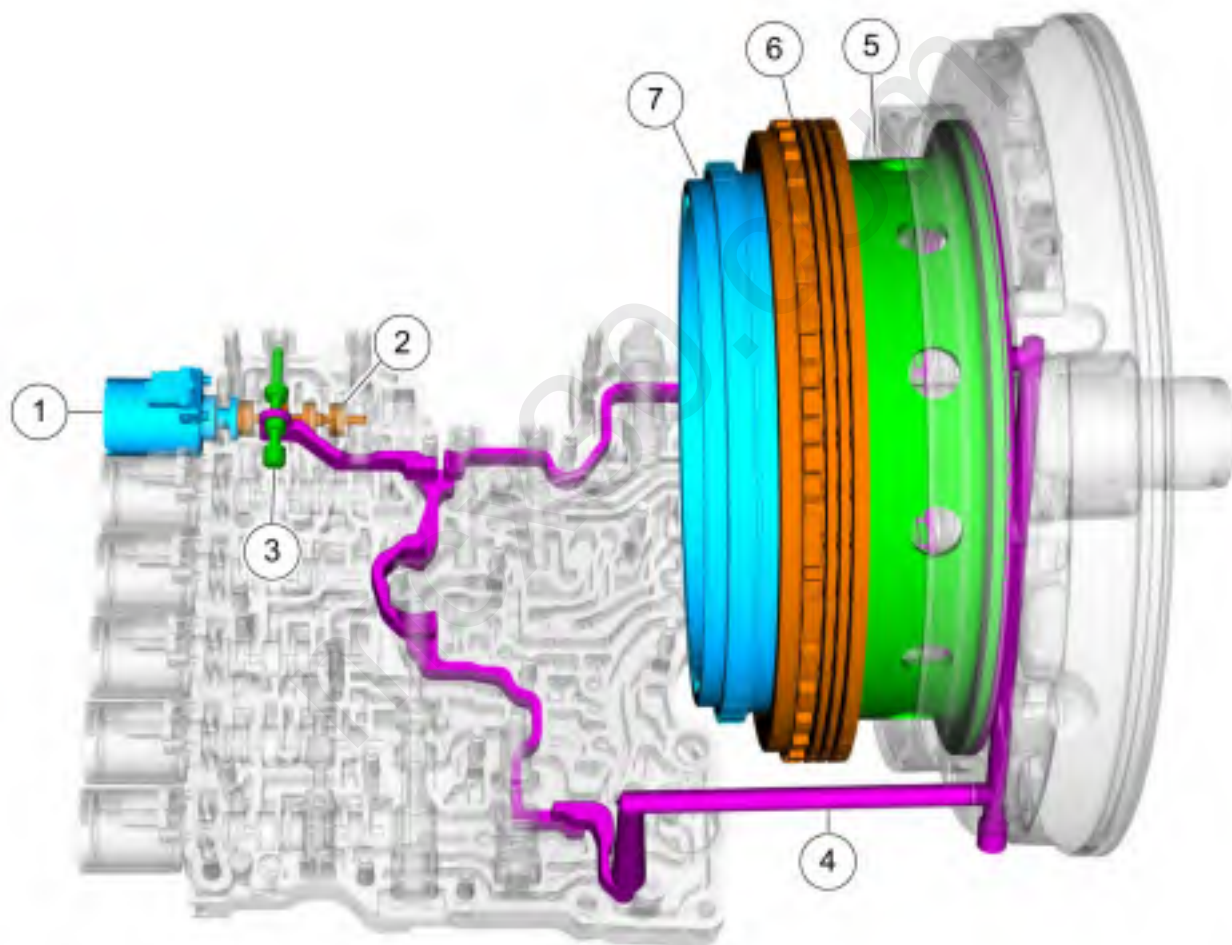


A Clutch

Overview



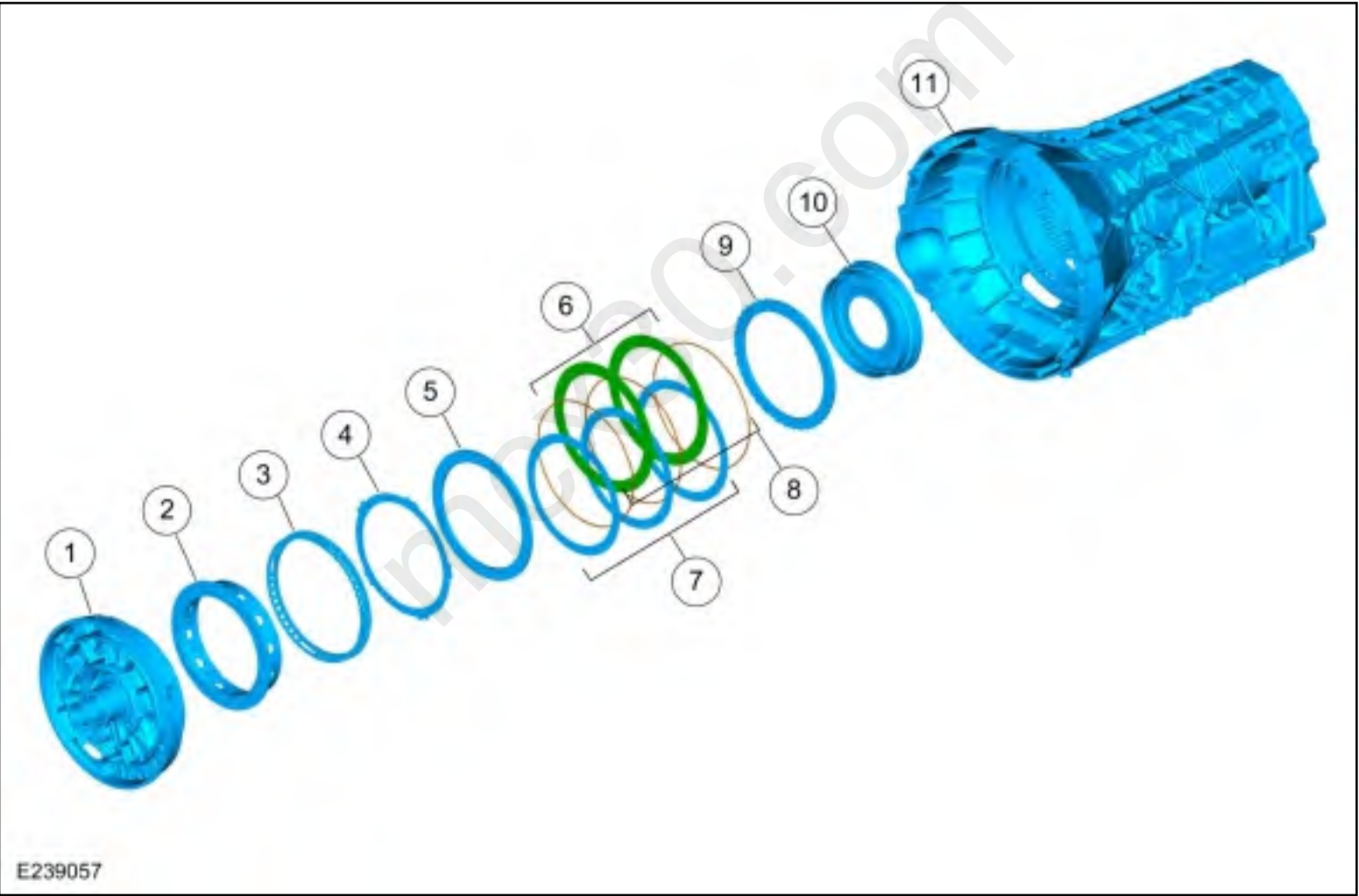
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Item	Description
1	SSA
2	A clutch control valve

3	A clutch latch valve
4	A clutch apply circuit
5	A clutch piston
6	A clutch assembly
7	Ring gear No. 1

Ring gear No. 1 is connected to the A clutch. When the A clutch applies, it holds the ring gear No. 1 stationary.

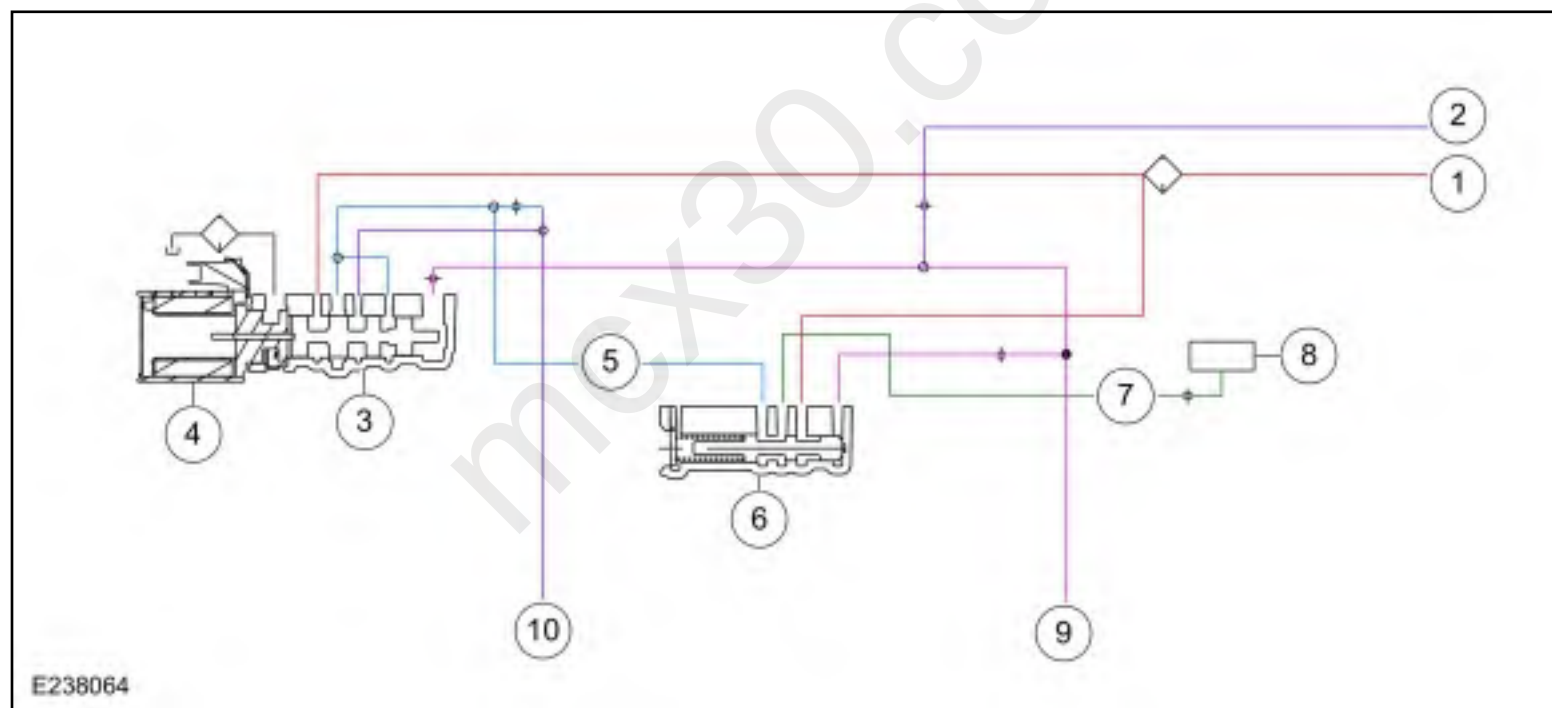
A Clutch Exploded View



Item	Description
1	Front support assembly

2	A clutch piston
3	A clutch piston return spring
4	A clutch wave spring
5	A clutch apply plate
6	A clutch steel plates
7	A clutch friction plates
8	A clutch separating springs
9	A clutch pressure plate
10	Ring gear No. 1
11	Transmission case

A Clutch Hydraulic Circuits



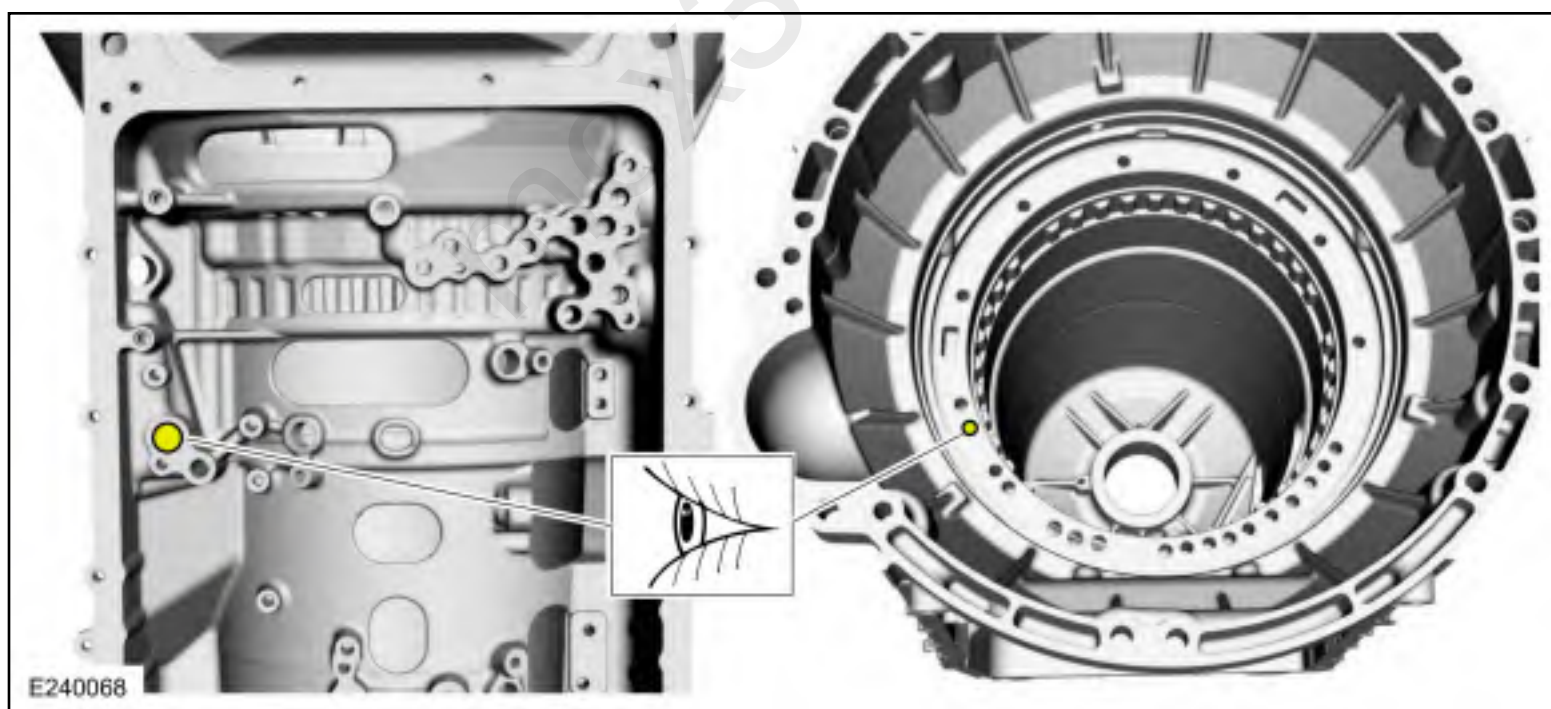
Item	Description
1	Line pressure
2	Pump output
3	A clutch control valve

4	SSA
5	Control pressure to latch valve
6	A clutch latch valve
7	Apply pressure to mechanical A clutch
8	Mechanical A clutch
9	Elevated exhaust pressure
10	Clutch exhaust

A Clutch Hydraulic Operation

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

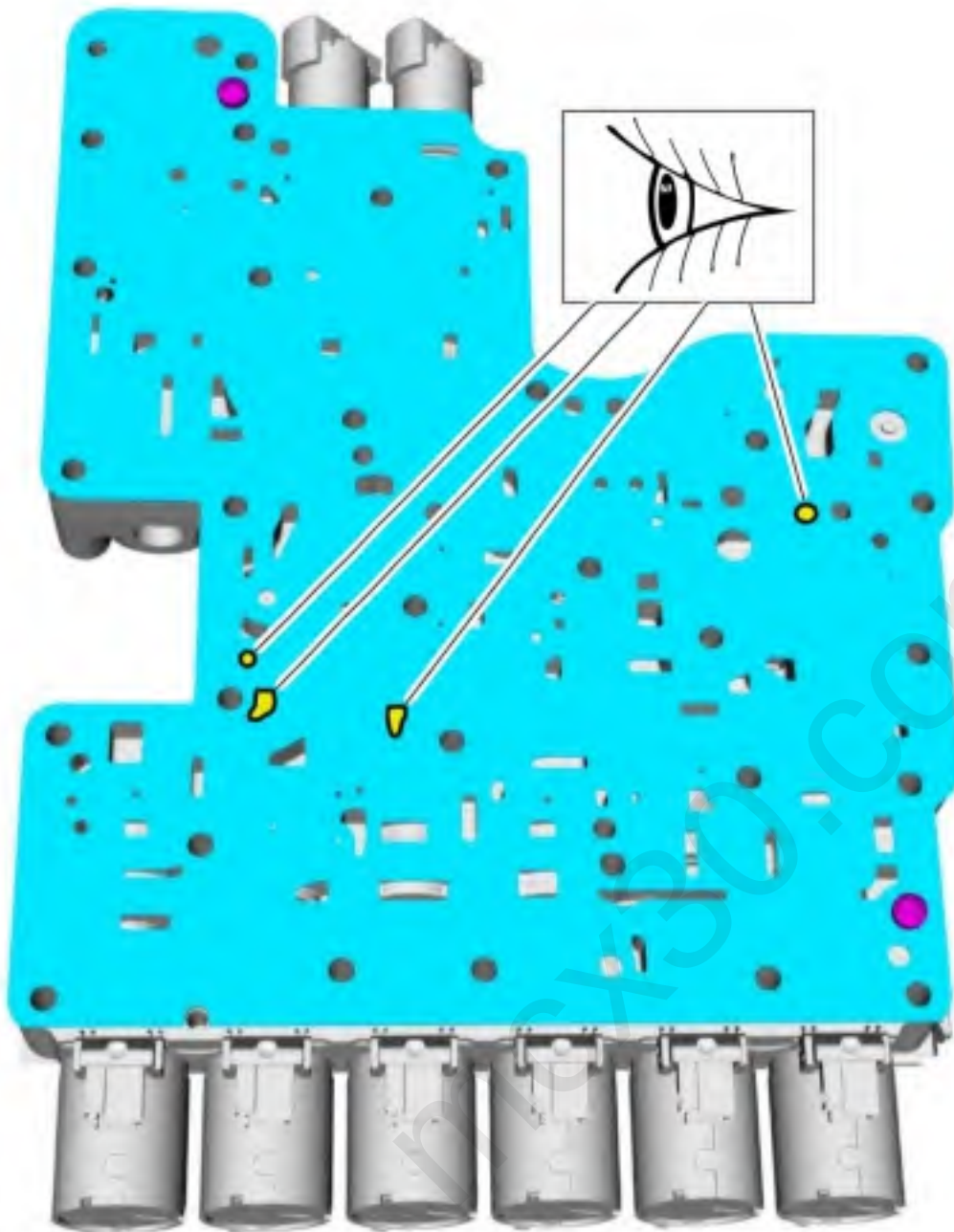
A Clutch Hydraulic Passages





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