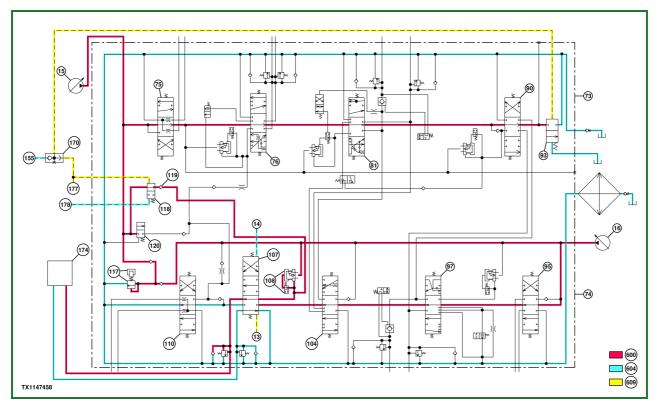
Auxiliary Flow Combiner Valve and Bypass Shutoff Valve Operation



TX1147458-UN: Auxiliary Flow Combiner Valve and Bypass Shutoff Valve Schematic

LEGEND:

- 13 Auxiliary (pilot)
- 14 Auxiliary (pilot)
- 15 Pump 1 (4-spool side)
- 16 Pump 2 (5-spool side)
- 73 4-Spool Side Control Valve
- 74 5-Spool Side Control Valve
- 75 Right Travel Spool
- 76 Bucket Spool
- 81 Boom 1 Spool
- 90 Arm 2 Spool
- 93 Bypass Shutoff Valve
- 95 Swing Spool
- 97 Arm 1 Spool
- 104 Boom 2 Spool
- 107 Auxiliary Spool
- 108 Auxiliary Flow Rate Control Valve (valve and poppet)
- 110 Left Travel Spool
- 117 Main Relief and Power Dig Valve
- 118 Auxiliary Flow Combiner Valve
- 119 Check Valve—Flow Combiner Valve Circuit
- 120 Travel Flow Combiner Valve
- 155 From Shuttle Valve
- 170 Auxiliary Shuttle Valve
- 174 Auxiliary Attachment
- 177 From Flow Rate Select Solenoid Valve
- 178 To Flow Rate Select Reducing Valve

600 - High-Pressure Oil

604 - Return Oil

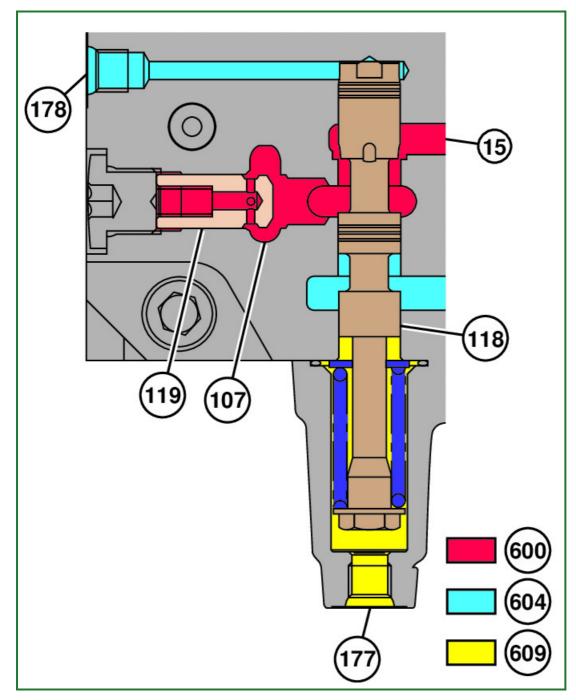
609 - Pilot Oil

NOTE:

Auxiliary flow combiner value and bypass shutoff value will not wok properly unless appropriate kits are installed on machine.

The combined functions of auxiliary flow combiner valve (118) and bypass shutoff valve (93) combine highpressure oil (600) flow from pump 1 (4-spool side) (15) with pump 2 (5-spool side) (16) at the auxiliary spool (107) to increase hydraulic oil flow to auxiliary attachment (174).

Auxiliary Flow Combiner Valve Operation



TX1147189-UN: Auxiliary Flow Combiner Valve LEGEND:

15 - From Pump 1 (4-spool side)