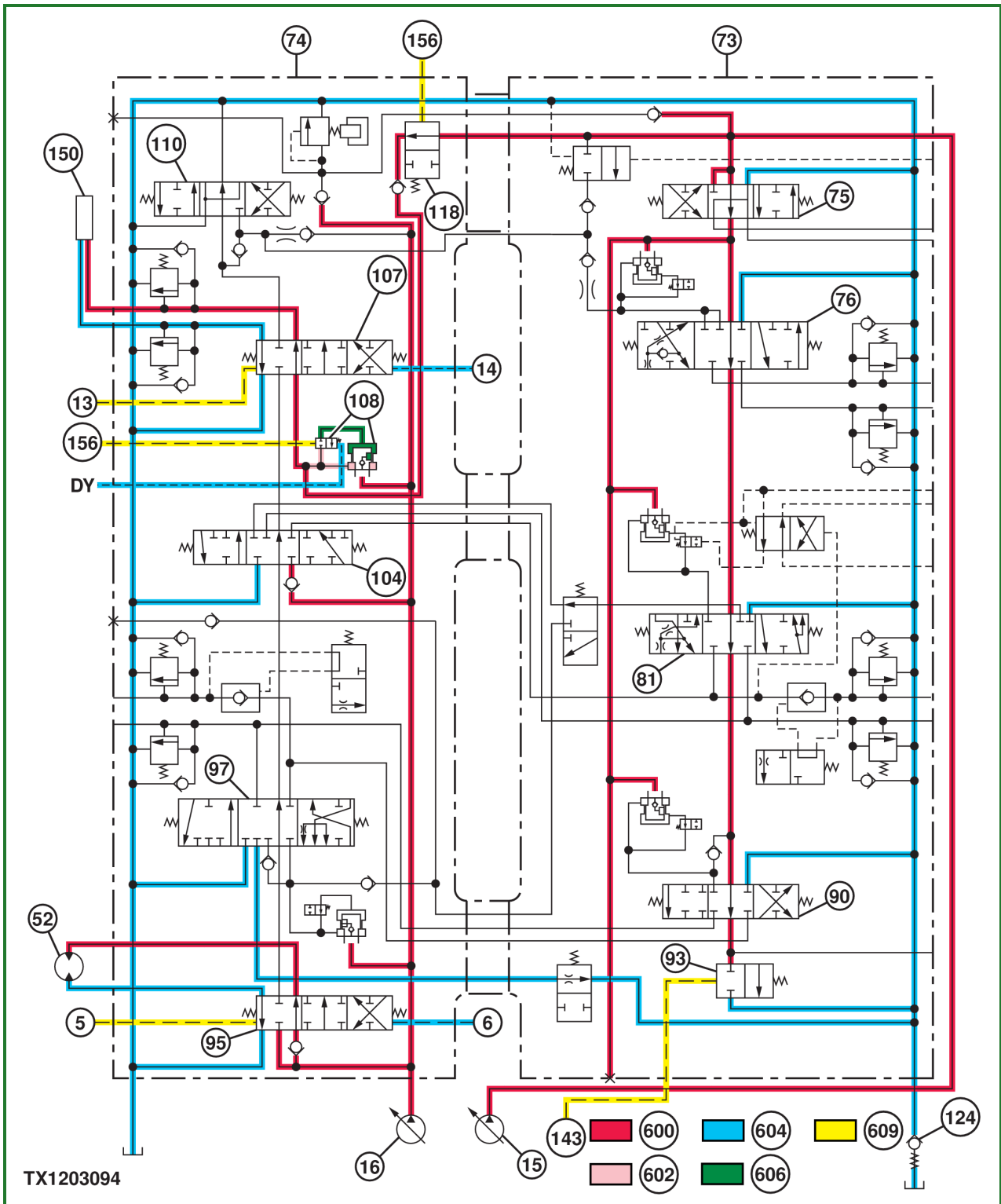


Auxiliary Flow Rate Control Valve Circuit Operation



TX1203094-UN: Auxiliary Flow Rate Control Valve Schematic (auxiliary spool shifted and swing left active)

LEGEND:

- 5 - Swing Left (pilot)
- 6 - Swing Right (pilot)
- 13 - Auxiliary (pilot)
- 14 - Auxiliary (pilot)
- 15 - Pump 1
- 16 - Pump 2
- 52 - Swing Motor
- 73 - Right Control Valve (4-spool)

74 - Left Control Valve (5-spool)
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
118 - Auxiliary Function Flow Combiner Valve
124 - Oil Cooler Bypass Valve
143 - From Auxiliary Shuttle Valve
150 - Auxiliary Attachment
156 - From Flow Rate Select Solenoid Valve (2 used)
600 - High-Pressure Oil
602 - Low-Pressure Oil
604 - Return Oil
606 - Trapped Oil
609 - Pilot Oil
DY - To Solenoid Valve Manifold (port DY)

Auxiliary flow rate control valve is used when two pump combined flow kit is installed on the machine.

NOTE:

Auxiliary flow rate control valve will not work properly unless two pump combined flow kit is installed on machine and appropriate work mode is enabled.

The function of the auxiliary flow rate control valve (valve and poppet) (108) is to restrict supply oil flow from pump 2 (16) through the auxiliary spool (107) when used under the following conditions:

- Two-speed on (combined flow on).
- Pressure on attachment pressure sensor (B60).

Combined with any of these inputs:

- Pressure on arm out pressure sensor (B61).
- Pressure on arm out pressure sensor (B61) and boom up pressure sensor (B30).
- Pressure on swing pressure sensor (B33).
- Pressure on travel pressure sensor (B34).

For more information on sensors, [see System Functional Schematic](#) . (Group 9015-10.)

For auxiliary flow rate control valve circuit location information, [see Control Valve Operation](#) . (Group 9025-05.)