CX27B
Hydraulic Excavator

Service Manual

Part No. 6-77820

CASE CONSTRUCTION

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HYDRAULIC EXCAVATOR
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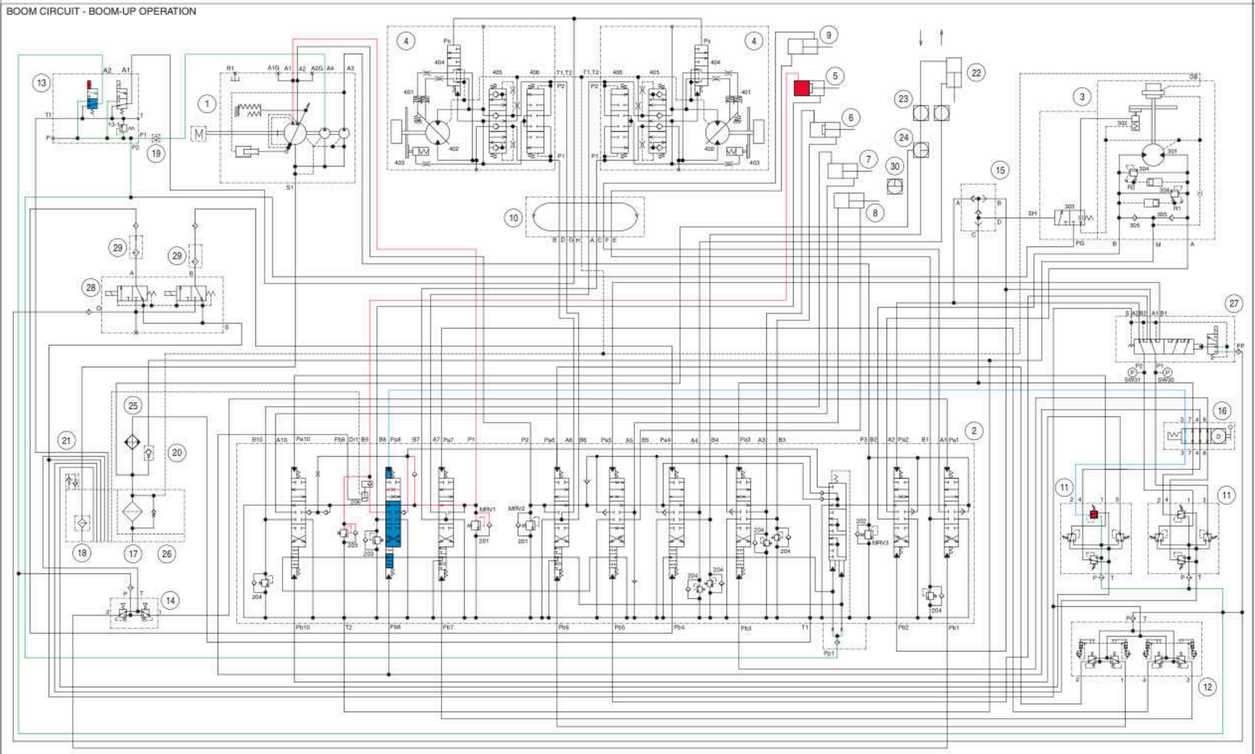
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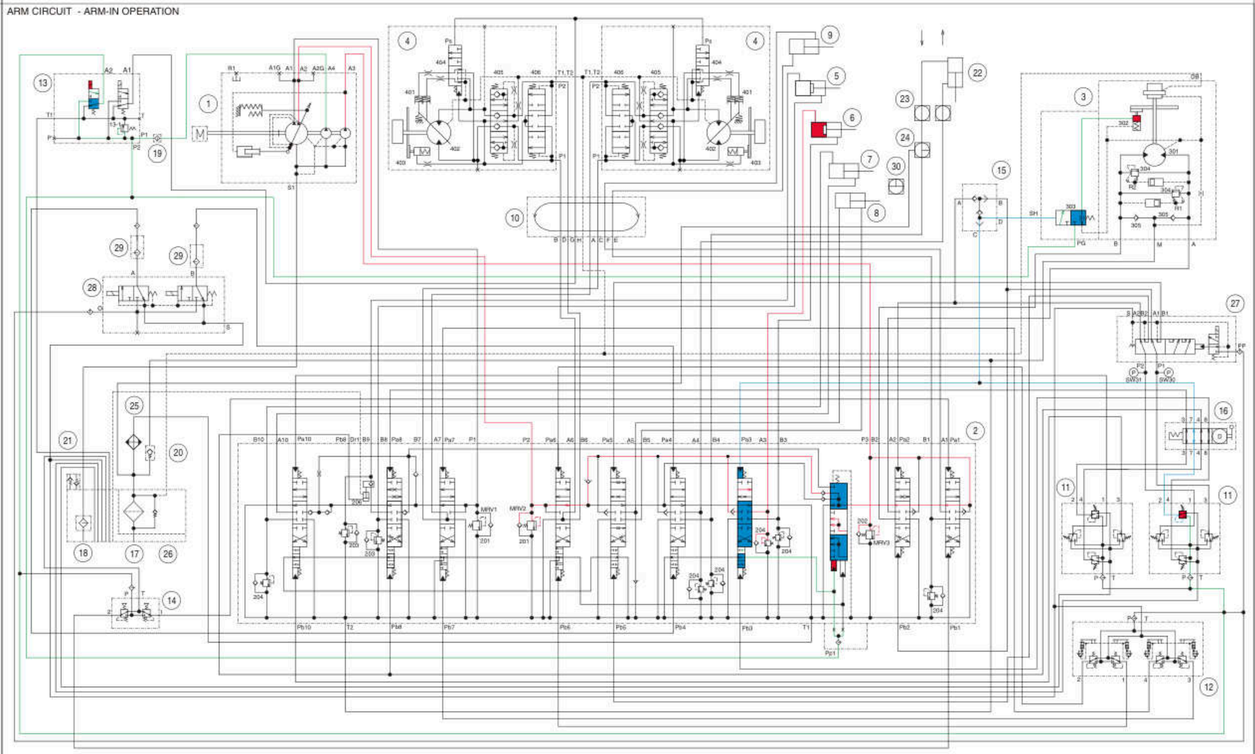
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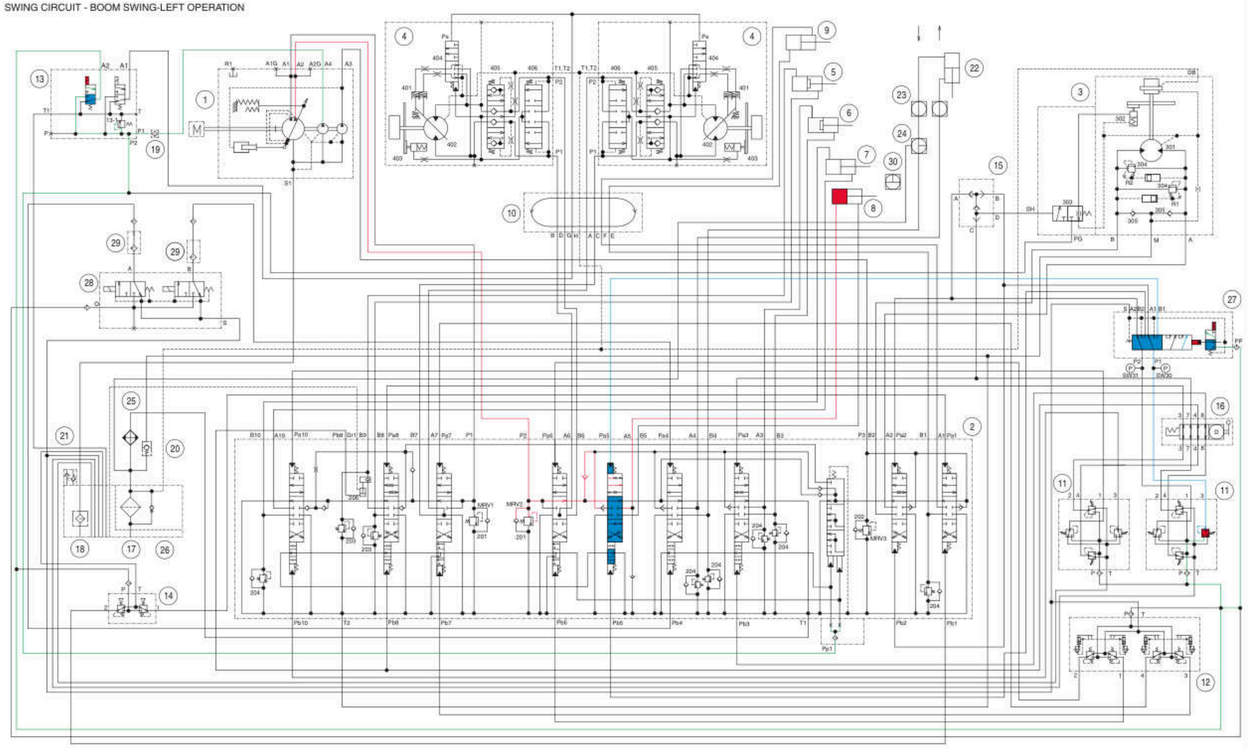
BOOM CIRCUIT - BOOM-UP OPERATION



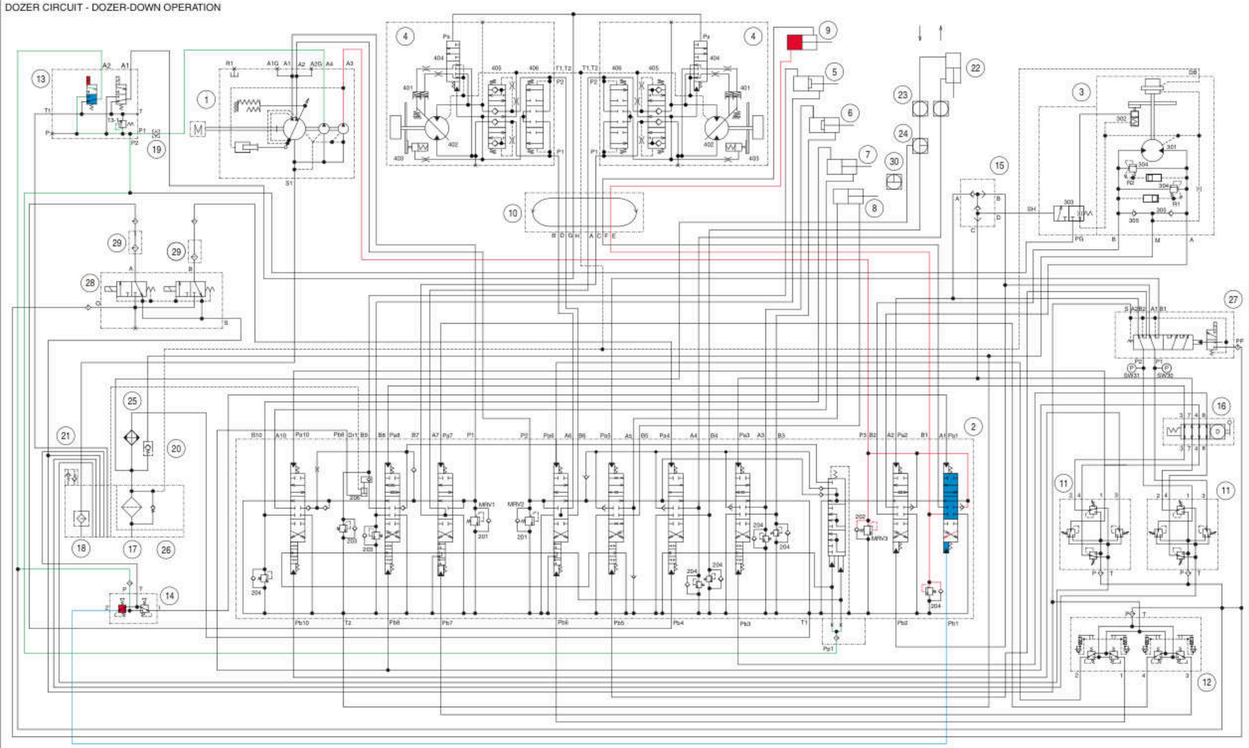
ARM CIRCUIT - ARM-IN OPERATION



SWING CIRCUIT - BOOM SWING-LEFT OPERATION



DOZER CIRCUIT - DOZER-DOWN OPERATION



COMPONENT IDENTIFICATION

1. PUMP ASSEMBLY
2. CONTROL VALVE
3. SLEWING MOTOR
4. TRAVEL MOTOR
5. BOOM CYLINDER / CANOPY CAB
6. ARM CYLINDER
7. BUCKET CYLINDER
8. SWING CYLINDER
9. DOZER CYLINDER
10. SWIVEL JOINT
11. PILOT VALVE (ATT)
12. PILOT VALVE (TRAVEL)
13. SOLENOID VALVE
14. PILOT VALVE (DOZER)
15. SHUTTLE VALVE
16. MULTI CONTROL VALVE
17. RETURN FILTER (ELEMENT)
18. SUCTION STRAINER
19. INLINE FILTER
20. CHECK VALVE
21. HYDRAULIC RESERVOIR VENT
22. NIBBLER CYLINDER
23. STOP VALVE
24. SELECTOR VALVE
25. OIL COOLER
26. HYDRAULIC OIL TANK
27. SOLENOID VALVE
28. SOLENOID VALVE
29. ORIFICE

NOTES

1. 201 (MAIN RELIEF VALVE P1,P2) 23.0 MPa (3340 psi)
2. 202 (MAIN RELIEF VALVE P3) 23.0 MPa (3340 psi)
3. 203 (OVERLOAD RELIEF VALVE) 27.5 MPa (4000 psi)
4. 204 (OVERLOAD RELIEF VALVE) 25.5 MPa (3700 psi)
5. 304 (SLEW RELIEF VALVE) 18.5 MPa (2680 psi)
6. 13-1 (PILOT RELIEF VALVE) 3.5MPa (508 psi)

HYDRAULIC SYMBOLS

PRESSURE
PILOT MAIN PRESSURE
PILOT SEC PRESSURE
CASE DRAIN
COMPONENT
54 COMPONENT NUMBER
SHOWS CIRCUIT CROSSING NOT CONNECTED
SHOWS CIRCUIT CONNECTED
CHECK VALVE
RESTRICTOR
FILTER OR SCREEN
OIL COOLER

HYDRAULIC SCHEMATIC
CX27B HYDRAULIC EXCAVATORS

Additional copies of this Hydraulic and Electrical Schematic can be ordered through Technical Publications Distribution System. The part number is 6-78070

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