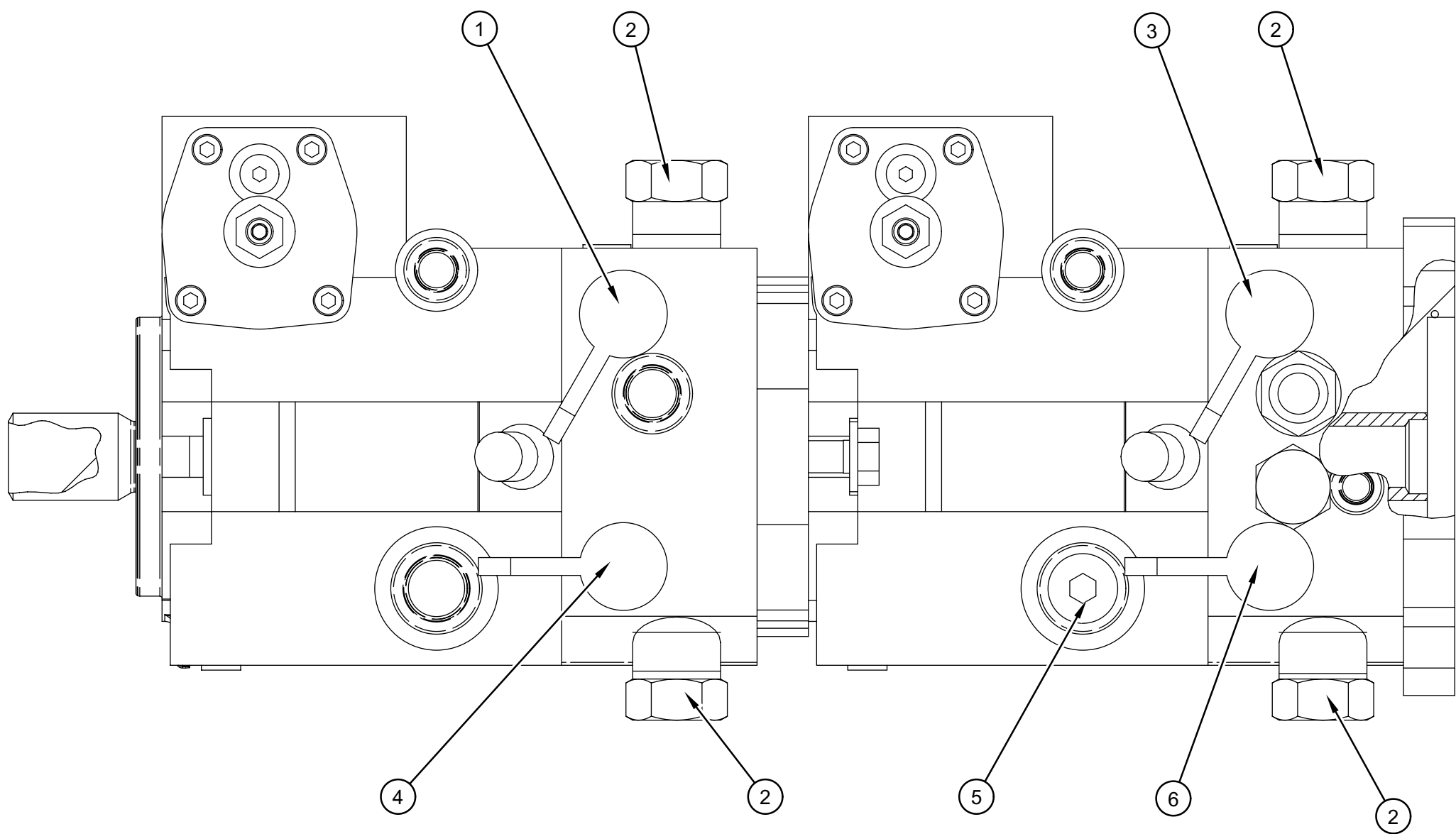




REN2876-02
August 2002



Schematic

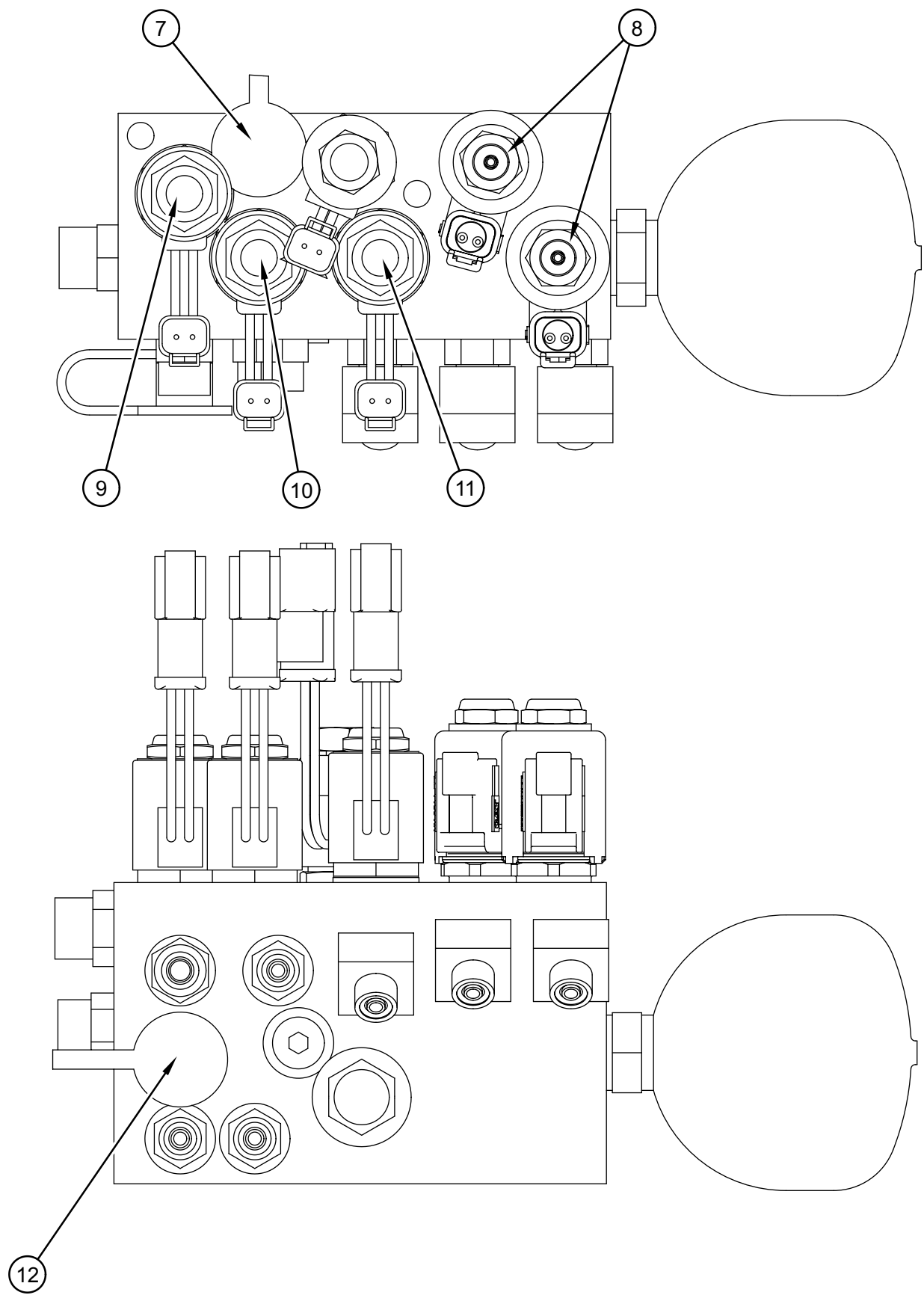
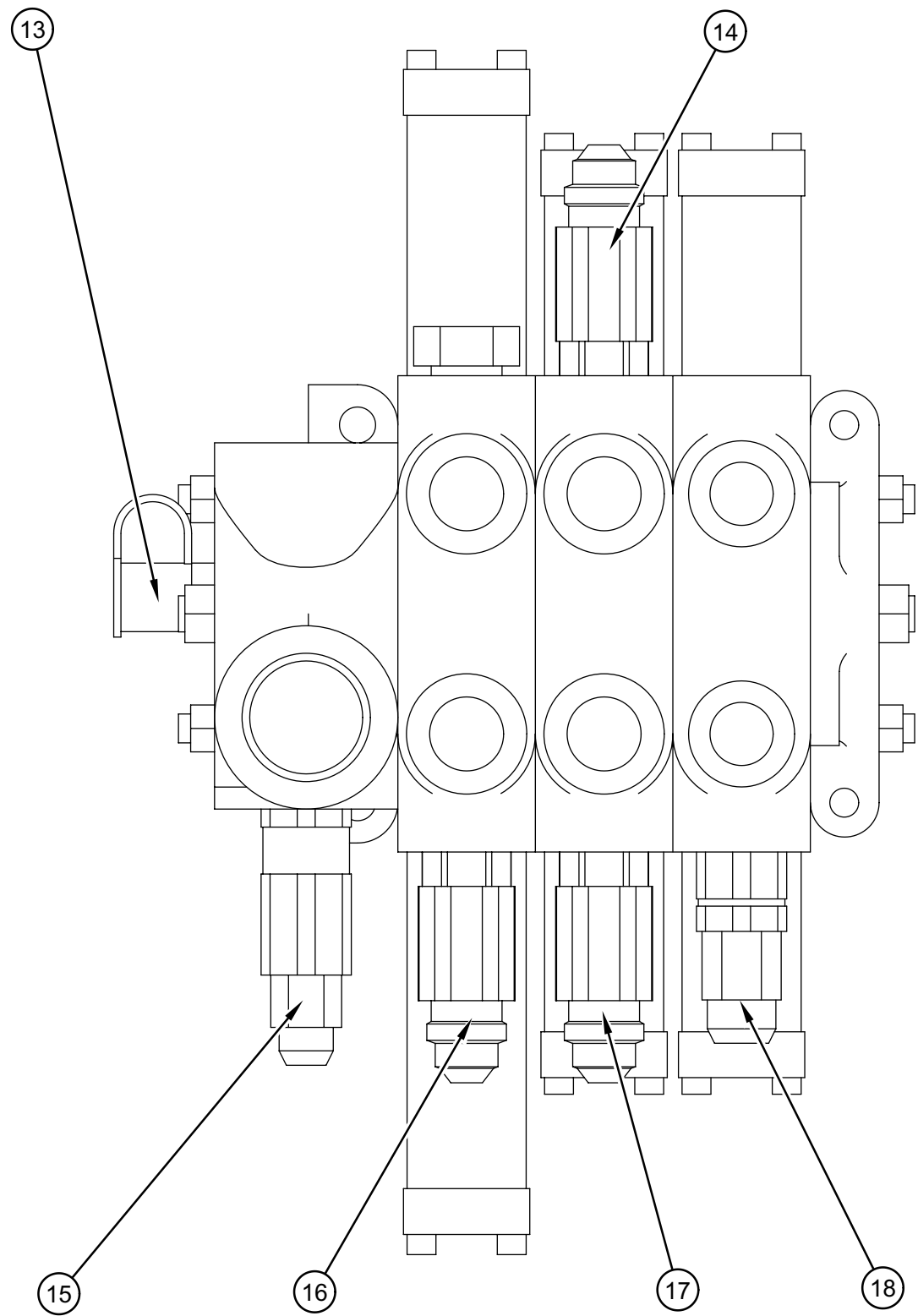
216, 226, 236 and 246 Skid Steer Loaders Hydraulic System

4NZ1-3399
5FZ1-6699
4YZ1-3999
5SZ1-3999

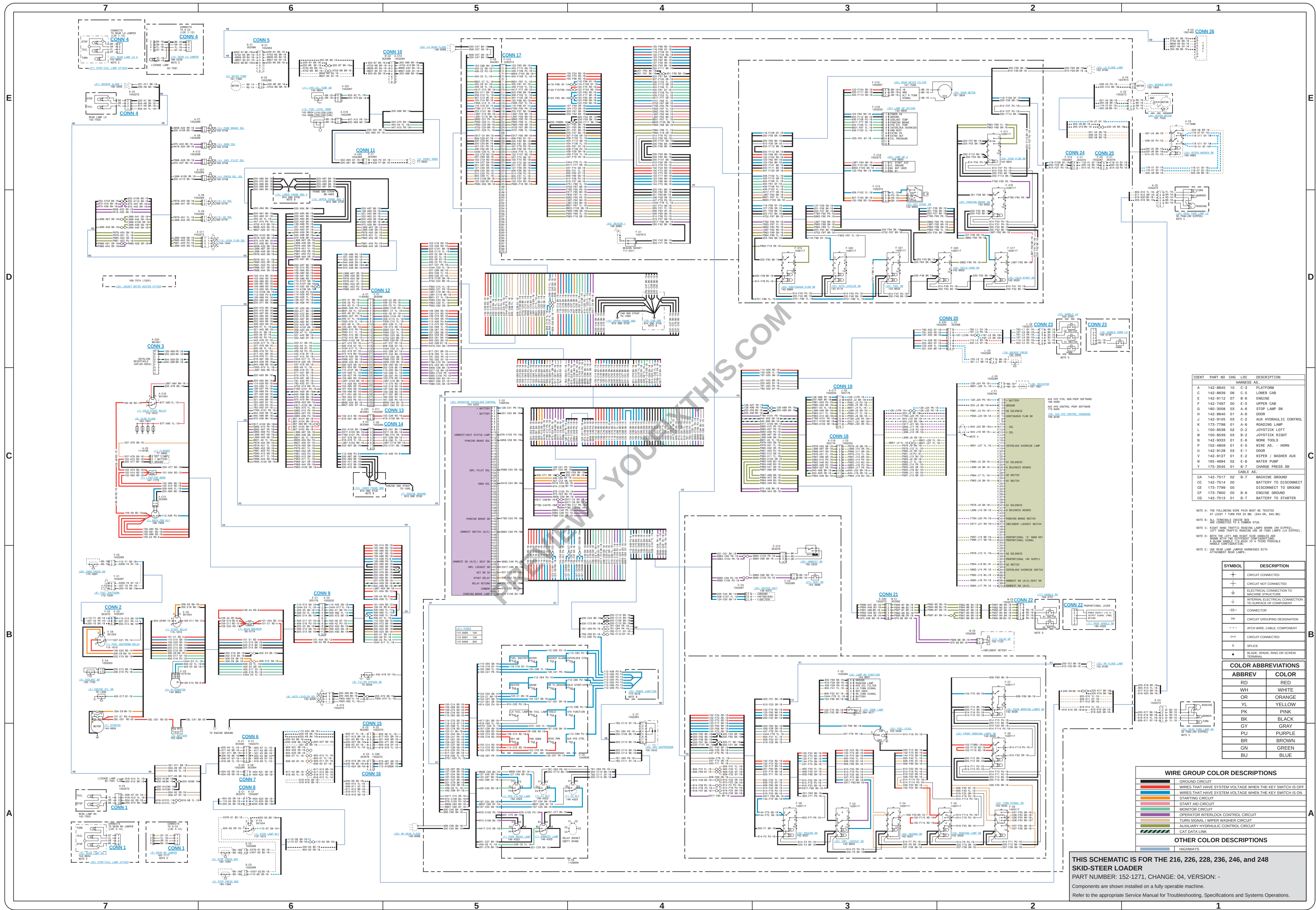


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TEST PORTS/VALVE LOCATION	
Item No.	Component
1	MB1 Port
2	Cross-Over Relief Valves
3	MB2 Port
4	MA1 Port
5	Pump Case Pressure Port
6	MA2 Port
7	Speed Sensing Port
8	Modulating Valves (Auxiliary) (Optional Equipment)
9	Solenoid Valve (Parking Brake)
10	Solenoid Valve (Hydrostatic)
11	Solenoid Valve (Work Tool)
12	Charge Pressure Port
13	Main Worktool System Pressure Port
14	Tilt Cylinder Rod End Relief Valve
15	Main Relief Valve
16	Lift Cylinder Head End Relief Valve
17	Tilt Cylinder Head End Relief Valve
18	Auxiliary Line Relief Valve (Optional Equipment)



IDENT	PART NO	CHG	LOC	DESCRIPTION
A	142-8645	10	C-3	PLATFORM
C	142-8639	06	C-5	LOWER CAB
E	142-9112	07	B-6	ENGINE
F	142-7497	00	E-5	UPPER CAB
G	180-3008	03	A-6	STOP LAMP SW
H	142-9640	01	A-6	DOOR
J	142-9155	03	C-2	AUX HYDRAULIC CONTROL
K	173-7798	01	A-6	ROADING LAMP
L	150-8538	02	D-2	JOYSTICK LEFT
M	150-8539	03	B-2	JOYSTICK RIGHT
N	142-9333	01	E-6	WORK TOOLS
P	152-4269	01	E-5	WTR AS. - HORN
U	142-9128	03	E-1	DOOR
V	142-9127	01	E-2	WIPER / WASHER AUX
W	165-4264	02	E-6	WATER PUMP
Y	175-3545	01	B-7	CHARGE PRESS SW

NOTE A: THE FOLLOWING WIRE PAIR MUST BE TESTED AT LEAST 1 TURN PER 25 MI. (344-300, 346-30)

NOTE B: ALL TERMINALS MUST BE PROPERLY IDENTIFIED.

NOTE C: REPAIR AND/OR REPLACE LAMP BURN (AS SUPPLIED) LIFT AND THROTTLE BURNING SW. 30 LAMP (AS SUPPLIED).

NOTE D: BOTH THE LEFT AND RIGHT SIDE WHEELS ARE POWERED BY THE SAME CIRCUIT. IF A WIRE IS FOUND TO BE BROKEN, IT IS A POSSIBLE WIRE CONNECTION.

NOTE E: REPAIR AND/OR REPLACE WIRE HARNESS WITH ATTACHMENT REAR LAMP.

SYMBOL	DESCRIPTION
+	CIRCUIT CONNECTED
-	CIRCUIT NOT CONNECTED
↓	ELECTRICAL CONNECTION TO MACHINE STRUCTURE
↑	INTERNAL ELECTRICAL CONNECTION TO SURFACE OF COMPONENT
-3-	CONNECTOR
HR	CIRCUIT GROUPING DESIGNATION
---	ATCH WIRE CABLE COMPONENT
○	CIRCUIT CONNECTED
○	SPLICE
•	CLAMP, BRIDGE, RING OR SCREW
•	TERMINAL

ABBREV	COLOR
RD	RED
WH	WHITE
OR	ORANGE
YL	YELLOW
PK	PINK
BK	BLACK
GY	GRAY
PU	PURPLE
BR	BROWN
GN	GREEN
BU	BLUE

WIRE GROUP COLOR DESCRIPTIONS	
GROUND CIRCUIT	WIRE THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS OFF
STARTING CIRCUIT	WIRE THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS ON
START/STOP CIRCUIT	
MONITOR CIRCUIT	
OPERATOR INTERLOCK CONTROL CIRCUIT	
TURN SIGNAL / WIPER WASHER CIRCUIT	
AUXILIARY HYDRAULIC CIRCUIT	
CAT DATA LINK	
OTHER COLOR DESCRIPTIONS	
HIGHWAYS	

THIS SCHEMATIC IS FOR THE 216, 226, 228, 236, 246, and 248 SKID-STEER LOADER
PART NUMBER: 152-1271, CHANGE: 04, VERSION: -
Components are shown installed on a fully operable machine.
Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.

Schematic

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Skid Steer Loader

Hydraulic System

6LZ1-UP



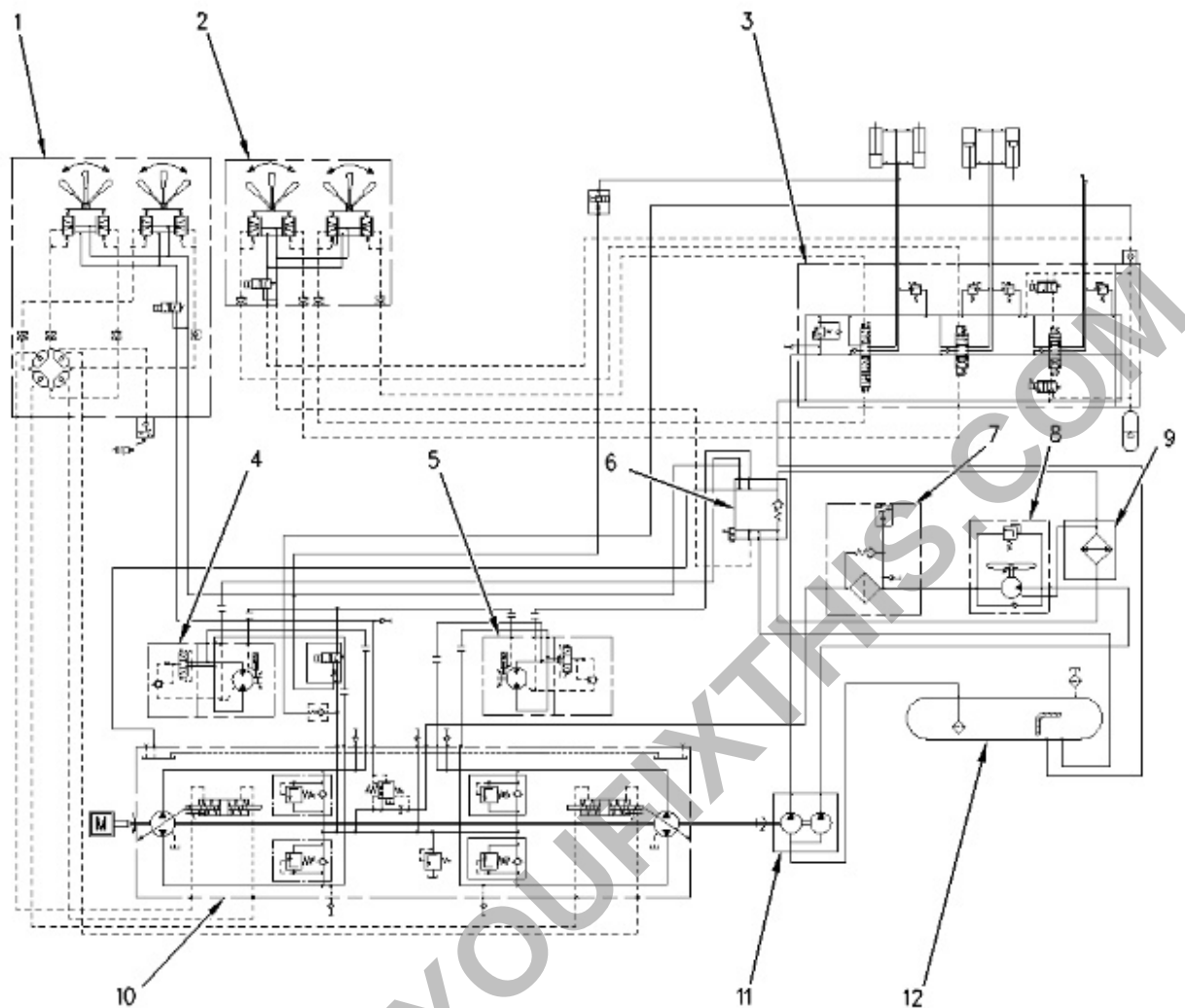


Illustration 2

g00863855

- (1) Pilot operated hydraulic control (hydrostatic)
- (2) Pilot operated hydraulic control (work tool)
- (3) Control valve (work tool)
- (4) Piston motor (hydrostatic) for the left side of the machine
- (5) Piston motor (hydrostatic) for the right side of the machine
- (6) Return manifold
- (7) Oil filter
- (8) Gear motor (fan drive)
- (9) Radiator and hydraulic oil cooler
- (10) Piston pump (hydrostatic)
- (11) Gear pump
- (12) Hydraulic tank

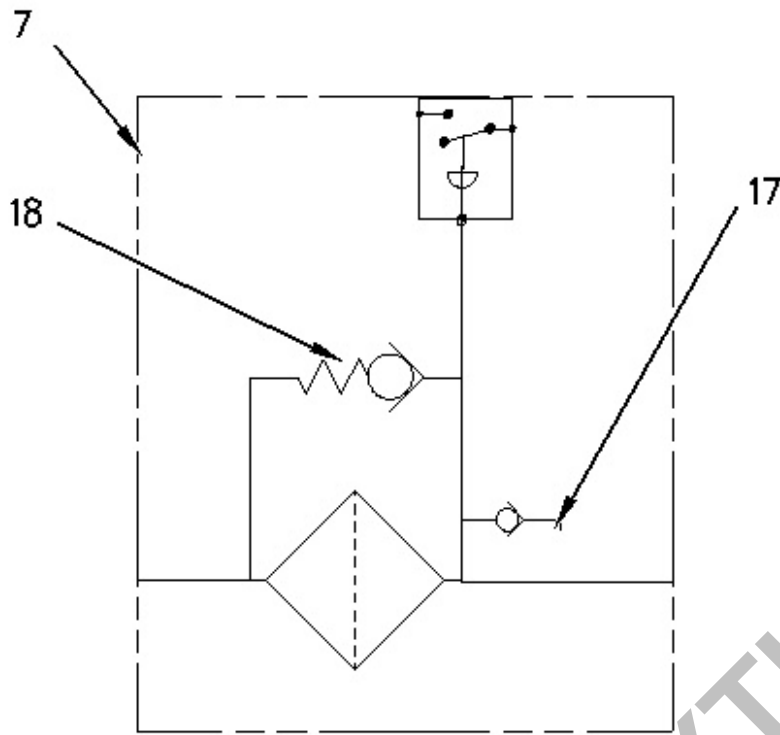


Illustration 8

g00798894

(7) Oil filter

(17) Test port and fill port

(18) Filter bypass valve

The oil filter bypass valve (18) opens when a differential pressure of 200 kPa (29 psi) is reached. An indicator will light on the right control panel when the differential pressure reaches 172 kPa (25 psi). For more information about the alert indicators, refer to the Operation and Maintenance Manual, "Alert Indicators".

Interlock System

Return Manifold System

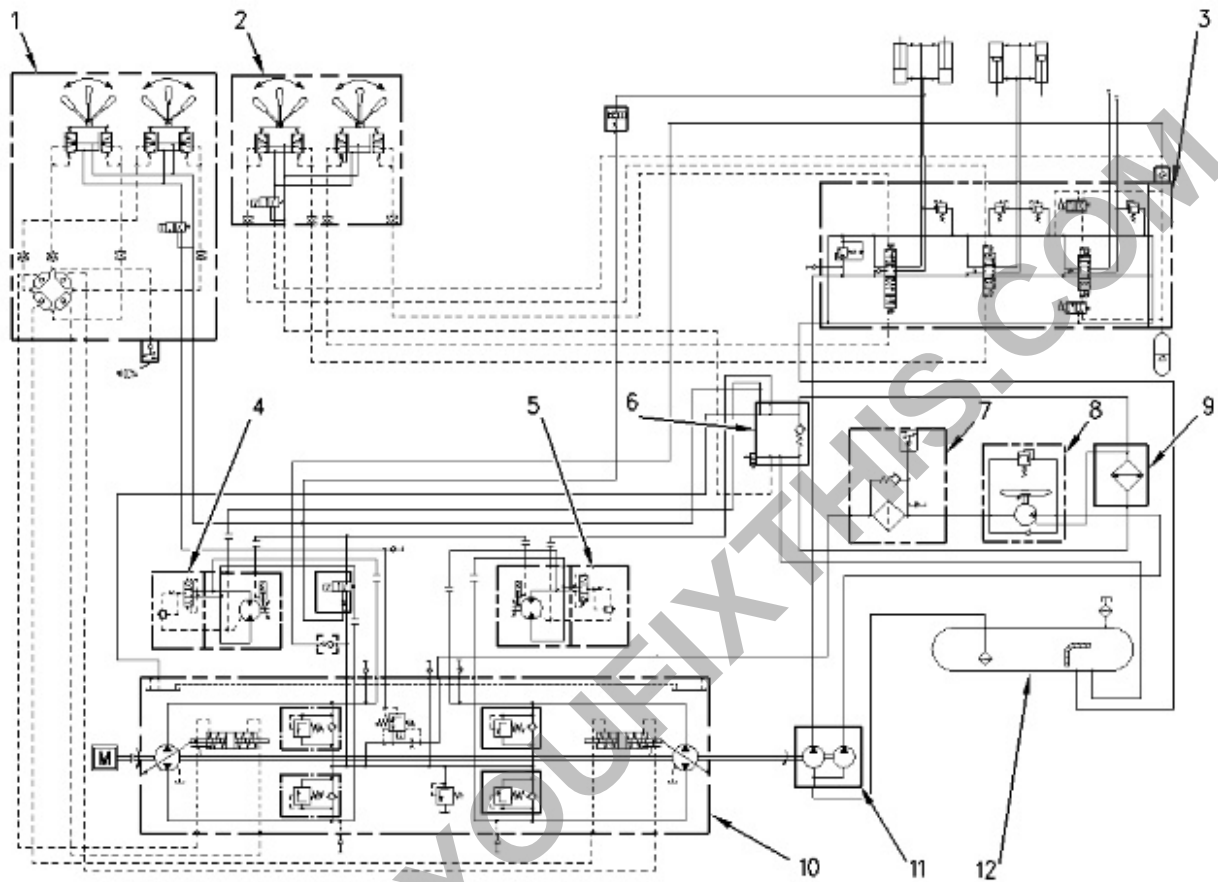


Illustration 12

g00863858

- (1) Pilot operated hydraulic control (hydrostatic)
- (2) Pilot operated hydraulic control (work tool)
- (3) Control valve (work tool)
- (4) Piston motor
- (5) Piston motor
- (6) Return manifold
- (7) Oil filter
- (8) Gear motor
- (9) Oil cooler
- (10) Piston pump
- (11) Gear pump
- (12) Hydraulic tank

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