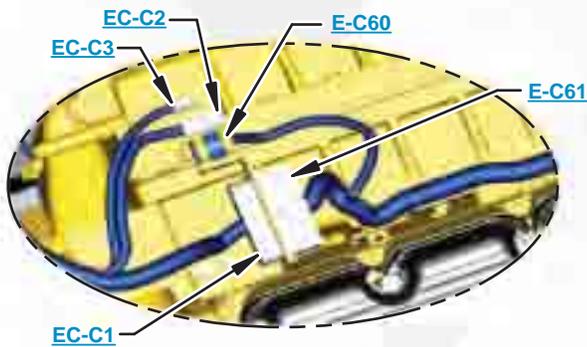


This document is best viewed at a screen resolution of 1024 X 768.

To set your screen resolution do the following:
RIGHT CLICK on the **DESKTOP**.
 Select **PROPERTIES**.
CLICK the **SETTINGS TAB**.
MOVE THE SLIDER under **SCREEN RESOLUTION** until it shows **1024 X 768**.
CLICK OK to apply the resolution.

The Bookmarks panel will allow you to quickly navigate to points of interest.



Click on any text that is BLUE and underlined. These are hyperlinks that can be used to navigate the schematic and machine views.

VIEW ALL CALLOUTS

When only one callout is showing on a machine view this button will make all of the callouts visible. This button is located in the top right corner of every machine view page.

HOTKEYS (Keyboard Shortcuts)		
	FUNCTION	KEYS
	Zoom In	“CTRL” / “+”
	Zoom Out	“CTRL” / “-”
	Fit to Page	“CTRL” / “0” (zero)
	Hand Tool	“SPACEBAR” (hold down)
	Find	“CTRL” / “F”





Product: 2010 Caterpillar 950H,962H and IT62H Wheel Loader Hydraulic System Schematic Workshop Manual
Full Download: <https://www.arepairmanual.com/downloads/2010-caterpillar-950h962h-and-it62h-wheel-loader-hydraulic-system-schematic-workshop-manual/>

REN8879-04
April 2010

Schematic

950H, 962H, and IT62H Wheel Loader Hydraulic System

950H:

**N1A1-UP
JAD1-UP
M1G1-UP
J5J1-UP
K5K1-UP**

962H:

**N4A1-UP
M3G1-UP
J6J1-UP
K6K1-UP
MAL1-UP**

IT62H:

M5G1-UP

Sample of manual. Download All 15 pages at:

<https://www.arepairmanual.com/downloads/2010-caterpillar-950h962h-and-it62h-wheel-loader-hydraulic-system-schematic-workshop-manual/>

COMPONENT LOCATION

Page 1 of 2



Machine Location	Description	Part Number	Schematic Location
HMU STEERING CIRCUIT			
1	Hand Metering Unit	230-4176	A-4
2	Connector - Orifice	122-2340	B-3
3	Cylinder Gp - Steer	163-0324	B-1
4	Valve Gp - Neutralizer	146-7571	B-4
5	Valve Gp - Steer	142-4000	B-2
COMMAND CONTROL STEERING			
6	Valve Gp - Neutralizer	8J-1553	D-3
7	Valve Gp - Steer	124-8635	D-1
8	Cylinder Gp - Steer	163-0324	E-1
9	Valve Gp - Check	111-7775	D-3
10	Valve Gp - Pilot	147-1790	D-4
11	Valve Gp - Shuttle	8J-6875	C-3
12	Screen Gp	154-2883	E-2
MAIN SCHEMATIC			
13	Pump Gp - Steering	241-9299	A-6
14	Pump Gp - Implement	254-4108	B-7
15	Cylinder - Tilt	242-4220	F-8
15	Cylinder - Tilt (Mid Lift)	247-0497	F-8
15	Cylinder - Tilt (High Lift)	245-7491	F-8
15	Cylinder - Tilt (Logger)	245-7487	F-8
20	Cylinder - Lift (LH)	242-4272	F-7
21	Cylinder - Lift (RH)	242-4271	F-7
22	Valve - Choke Check	276-9072	D-9
23	Valve Gp - Manual Lowering	112-1817	F-9
24	Accumulator - Pilot Oil	245-2975	F-5
25	Pump Gp - Fan	254-5146	B-8
26	Motor Gp - Fan	246-6152	B-8
27	Valve Gp - Cooler Bypass	244-1426	B-9
28	Filter Gp - Return Oil	244-1031	B-9
30	Manifold Gp - Fan And Brake Charge	242-1307	C-8
31	Filter Gp - Case Drain	249-2334	A-8
32	Valve Gp - Breaker Relief	220-0814	A-8

COMPONENT LOCATION

Page 2 of 2



Machine Location	Description	Part Number	Schematic Location
33	Tank Gp - Hydraulic Oil	237-2742	A-7
34	Valve Gp - Secondary Steer Diverter	141-2597	B-5
35	Pump Gp - Secondary Steer	275-8544	A-5
36	Valve Gp - Control (2 Function Standard)	261-4171	D-9
36	Valve Gp - Control (2 Function W/RC)	261-3682	D-9
36	Valve Gp - Control (3 Function)	261-4172	D-9
36	Valve Gp - Control (2 Function W/RC)	261-3683	D-9
36	Valve Gp - Control (Snow Removal) (3 Function W/RC)	274-8055	D-9
41	Accumulator - Ride Control (RC)	245-2973	F-6
42	Valve Gp - Control And Relief	263-5832	C-7
43	Motor Gp - Reversing Fan	228-8527	C-6
54	Valve Gp - Quick Coupler	180-8585	C-9
55	Cylinder Gp - Quick Coupler	237-0946	C-9
56	Valve Gp - Manual	112-1817	C-9
BRAKE SYSTEM			
25	Pump Gp - Fan	254-5146	E-2
30	Manifold Gp - Fan And Brake Charge	242-1307	F-2
45	Control Gp - Foot Brake	193-1448	F-3
46	Switch As - Foot Brake Limit	105-6117	F-3
47	Sensor Gp - Foot Brake	214-4863	F-3
48	Valve Gp - Foot Brake	215-3687	F-3
49	Accumulator - Service Brake	213-8773	F-2
50	Actuator As - Parking Brake	129-8090	F-1
51	Valve Gp - Parking Brake	106-1774	F-2
52	Switch As - Parking Brake Pressure	174-4312	F-1
53	Switch As - Brake Pressure	175-3244	F-3

TAP LOCATION

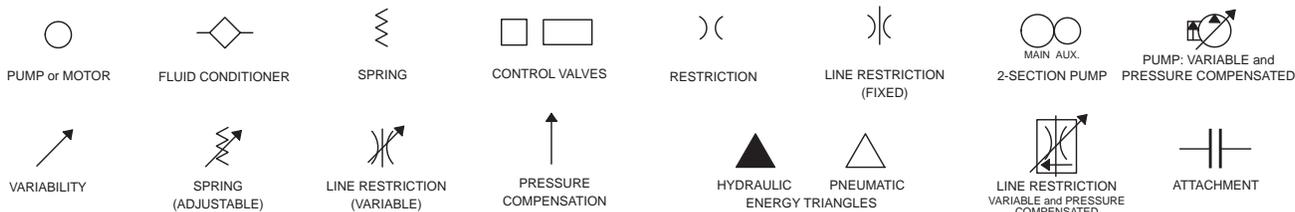


Tap Number	Description	Schematic Location
<u>AA</u>	Fan Pump Discharge Pressure	<u>B-8</u>
<u>CC</u>	Implement Pump Charge Pressure	<u>E-9</u>
<u>DD</u>	Implement Pump Load Sense Pressure	<u>B-7</u>
<u>EE</u>	Steer Pump Pressure	<u>B-6</u>
<u>FF</u>	Steer Pump Load Sense Pressure	<u>A-4,C-4</u>
<u>GG</u>	Pilot Supply Pressure	<u>E-5</u>
<u>HH</u>	Fan Pump Load Sense Pressure	<u>B-8</u>
<u>KK</u>	Command Control Right Steer Pilot Pressure	<u>D-2</u>
<u>LL</u>	Command Control Left Steer Pilot Pressure	<u>D-2</u>
<u>MM</u>	Command Control Steering Neutral Pilot Press	<u>D-3</u>
<u>NN</u>	Command Control Steering Supply Pressure	<u>D-4</u>
<u>PP</u>	Service Brake Pressure	<u>F-3</u>
<u>QQ</u>	Front Service Brake Pressure	<u>F-4</u>
<u>RR</u>	Rear Service Brake Pressure	<u>F-4</u>
<u>XX</u>	Tilt Cylinder Rod End Pressure	<u>F-8</u>
<u>YY</u>	Tilt Cylinder Head End Pressure	<u>F-8</u>
<u>SOS</u>	Hydraulic Oil Sampling Port	<u>B-9</u>

FLUID POWER SYMBOLS



BASIC COMPONENT SYMBOLS



VALVE ENVELOPES

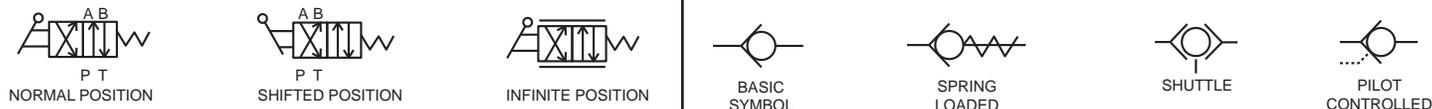
VALVES

VALVE PORTS



CONTROL VALVES

CHECK VALVES



FLUID STORAGE RESERVOIRS



MEASUREMENT

ROTATING SHAFTS



COMBINATION CONTROLS



MANUAL CONTROL SYMBOLS



RELEASED PRESSURE

PILOT CONTROL SYMBOLS

REMOTE SUPPLY PRESSURE



ACCUMULATORS

CROSSING AND JOINING LINES

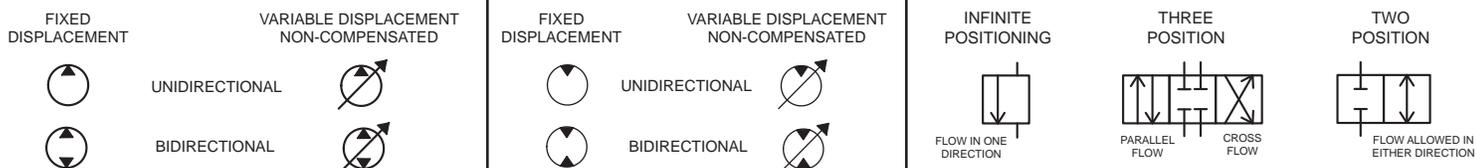
HYDRAULIC AND PNEUMATIC CYLINDERS



HYDRAULIC PUMPS

HYDRAULIC MOTORS

INTERNAL PASSAGEWAYS



ELECTRICAL SYMBOLS



Hydraulic Symbols (Electrical)



Transducer
(Fluid)



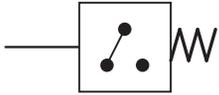
Transducer
(Gas / Air)



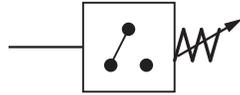
Generator



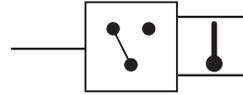
Electric Motor



Pressure Switch



Pressure Switch
(Adjustable)

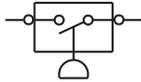


Temperature Switch

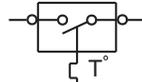


Electrical Wire

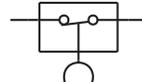
Electrical Symbols (Electrical)



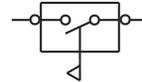
Pressure
Symbol



Temperature
Symbol



Level
Symbol

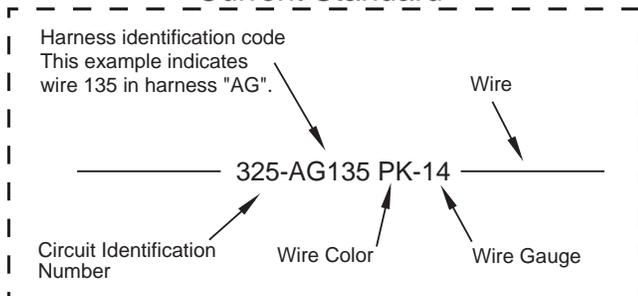


Flow
Symbol

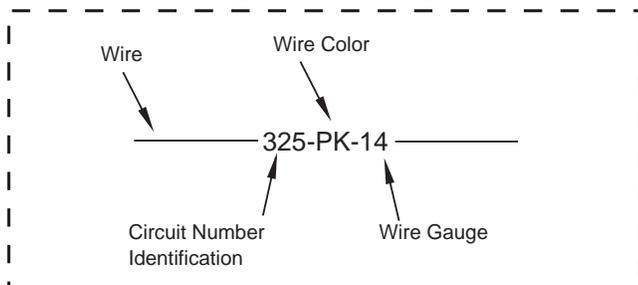
Wire Number Identification Codes

Electrical Schematic Example

Current Standard

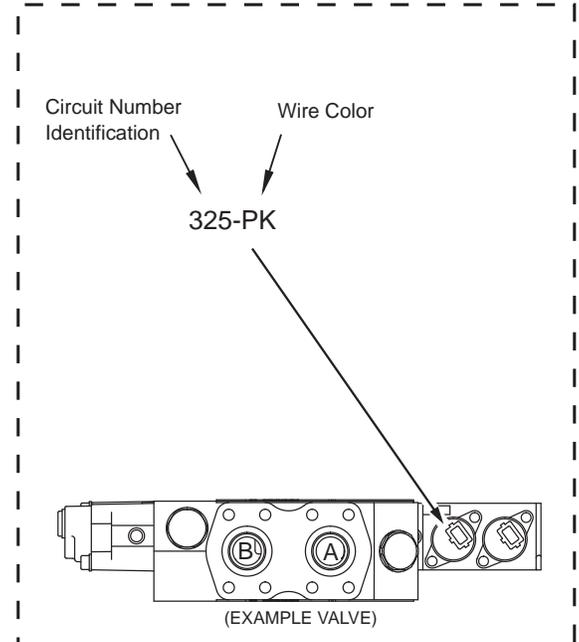


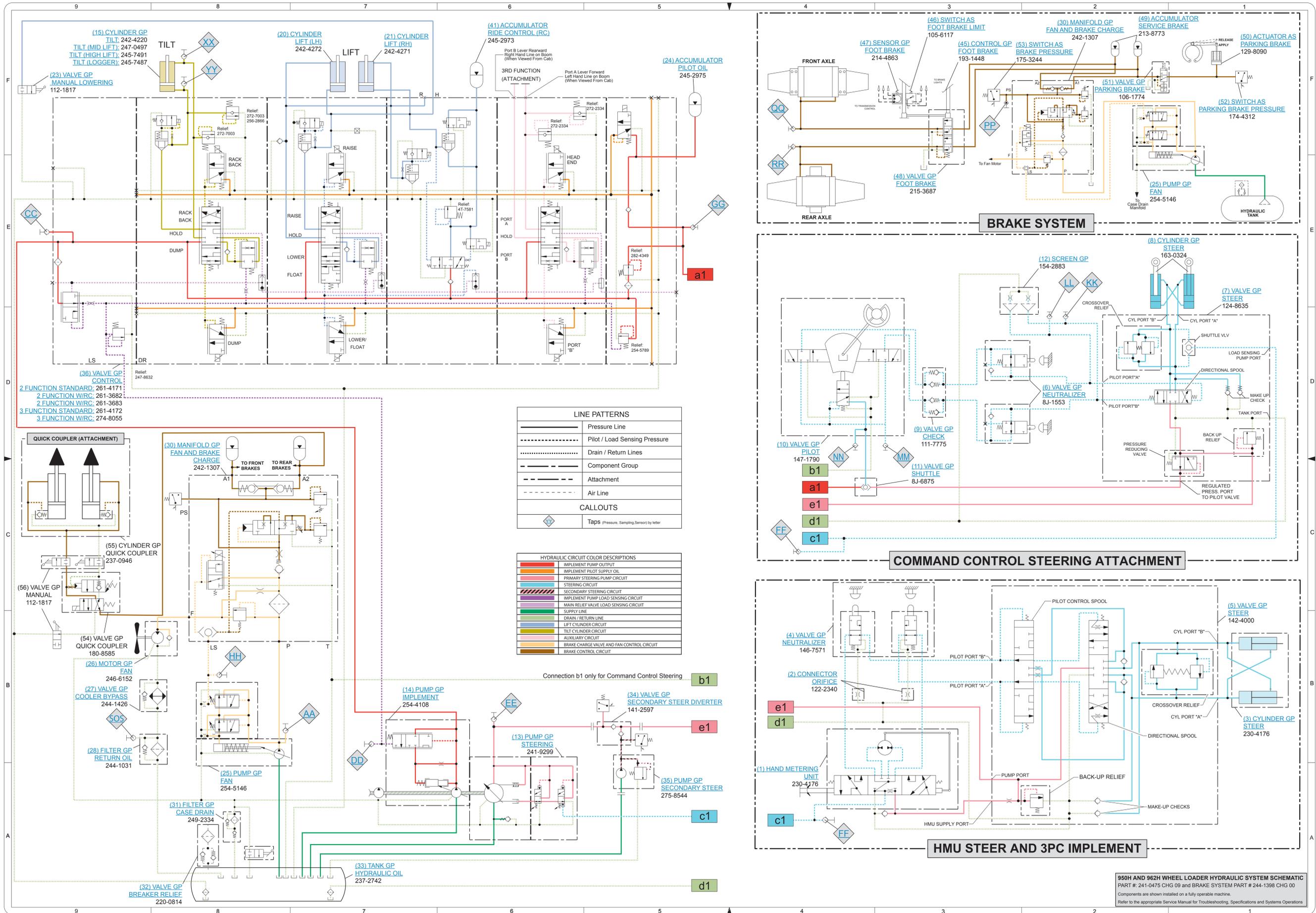
Previous Standard



Hydraulic Schematic Example

Current Standard





950H AND 962H WHEEL LOADER HYDRAULIC SYSTEM SCHEMATIC
 PART #: 241-0475 CHG 09 and BRAKE SYSTEM PART #: 244-1398 CHG 00
 Components are shown installed on a fully operable machine.
 Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations