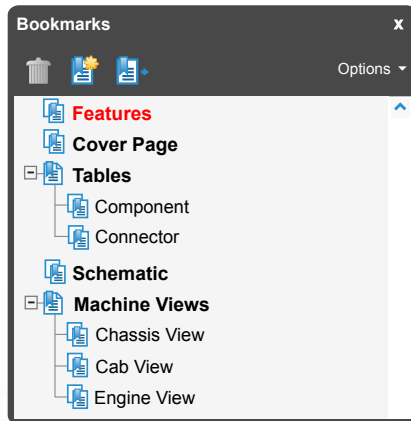


INTERACTIVE SCHEMATIC



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

****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**.

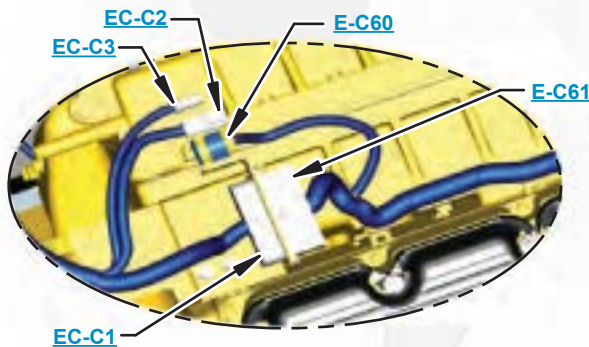
Select **PROPERTIES**.

CLICK the **SETTINGS TAB**.

MOVE THE SLIDER under **SCREEN RESOLUTION** until it shows **1024 X 768**.

CLICK OK to apply the resolution.

**Due to different monitor sizes and PDF reader preferences there may be some variance in linked schematic locations*



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



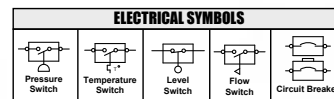
[Click here to save a copy of this interactive schematic to your desktop](#)

VIEW ALL CALLOUTS

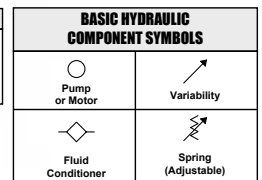
When only one callout is showing on a machine view, clicking on this button will make all of the callouts visible. This button is located in the top right corner of every machine view page.

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"
	Search	"CTRL" / "SHIFT" / "F"

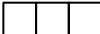
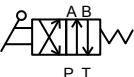
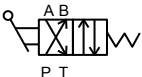
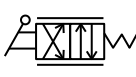


[Click here to view the Schematic Symbols and Definitions page](#)

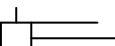
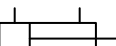


SCHEMATIC SYMBOLS AND DEFINITIONS



VALVES			
ENVELOPES			
			
One Position	Two Position	Three Position	
PORTS			
			
Two-way	Three-Way	Four-Way	
CONTROL			
			
Normal Position	Shifted Position	Infinite Position	
CHECK			
			
Basic Symbol	Spring Loaded	Shuttle	Pilot Controlled

INTERNAL PASSAGEWAYS			
 Infinite Positioning	 Two Position	 Three Position	 CROSS FLOW

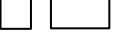
CYLINDERS	
 Single Acting	 Double Acting

ACCUMULATORS	
 Spring Loaded	 Gas Charged

PUMPS	
FIXED DISPLACEMENT	
 Unidirectional	 Bidirectional
VARIABLE DISPLACEMENT NON- COMPENSATED	
 Unidirectional	 Bidirectional

MOTORS	
FIXED DISPLACEMENT	
 Unidirectional	 Bidirectional
VARIABLE DISPLACEMENT NON- COMPENSATED	
 Unidirectional	 Bidirectional

ROTATING SHAFTS	
 Unidirectional	 Bidirectional

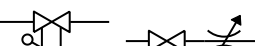
BASIC HYDRAULIC COMPONENT SYMBOLS	
 Pump or Motor	 Variability
 Fluid Conditioner	 Spring (Adjustable)
 Spring	 Pressure Compensation
 Control Valves	 Line Restriction (Variable)
 Restriction	 Line Restriction (Fixed)
 Line Restriction Variable and Pressure Compensated	 MAIN AUX. 2-Section Pump
 Attachment	 Pump: Variable and Pressure Compensated
 Hydraulic	 Pneumatic

PILOT CONTROL		
RELEASED PRESSURE		
		
External Return	Internal Return	
REMOTE SUPPLY PRESSURE		
		
Simplified	Complete	Internal Supply Pressure

COMBINATION CONTROLS						
 Solenoid	 Solenoid or Manual	 Solenoid and Pilot	 Solenoid and Pilot or Manual	 Servo	 Thermal	 Detent

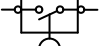
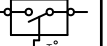
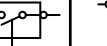
LINES	
 Crossing	 Joining

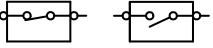
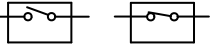
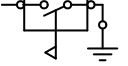
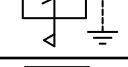
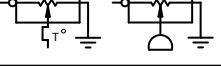
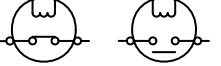
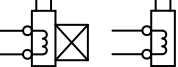
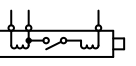
MEASUREMENT		
 Pressure	 Temperature	 Flow

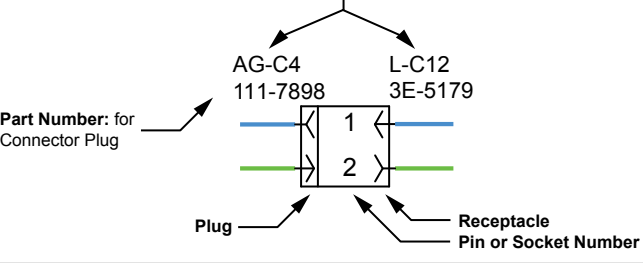
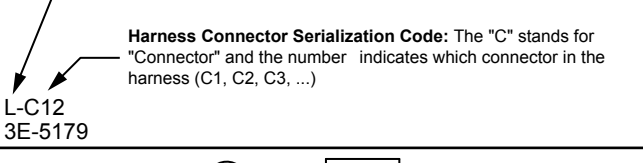
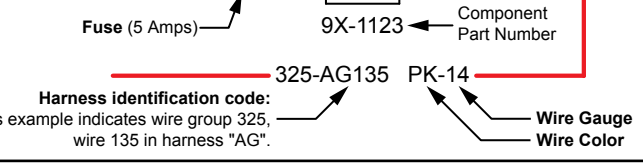
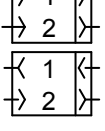
MANUAL CONTROL					
 Push-pull Lever	 Manual Shutoff	 General Manual	 Push Button	 Pedal	 Spring

FLUID STORAGE RESERVOIRS			
 Vented	 Pressurized	 Return Above Fluid Level	 Return Below Fluid Level

HYDRAULIC SYMBOLS - ELECTRICAL							
							
Transducer (Fluid)	Transducer (Gas / Air)	Generator	Electric Motor	Pressure Switch	Pressure Switch (Adjustable)	Temperature Switch	Electrical Wire

ELECTRICAL SYMBOLS				
 Pressure Switch	 Temperature Switch	 Level Switch	 Flow Switch	 Circuit Breaker

BASIC ELECTRICAL COMPONENT SYMBOLS	
	Fuse: A component in an electrical circuit that will open the circuit if too much current flows through it.
	Switch (Normally Open): A switch that will close at a specified point (temp, press, etc.). The circle indicates that the component has screw terminals and a wire can be disconnected from it.
	Switch (Normally Closed): A switch that will open at a specified point (temp, press, etc.). No circle indicates that the wire cannot be disconnected from the component.
	Ground (Wired): This indicates that the component is connected to a grounded wire. The grounded wire is fastened to the machine.
	Ground (Case): This indicates that the component does not have a wire connected to ground. It is grounded by being fastened to the machine.
	Reed Switch: A switch whose contacts are controlled by a magnet. A magnet closes the contacts of a normally open reed switch; it opens the contacts of a normally closed reed switch.
	Sender: A component that is used with a temperature or pressure gauge. The sender measures the temperature or pressure. Its resistance changes to give an indication to the gauge of the temperature or pressure.
	Relay (Magnetic Switch): A relay is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close the switch part of the relay.
	Solenoid: A solenoid is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close a valve or move a piece of metal that can do work.
	Magnetic Latch Solenoid: An electrical component that is activated by electricity and held latched by a permanent magnet. It has two coils (latch and unlatch) that make electromagnet when current flows through them. It also has an internal switch that places the latch coil circuit open at the time the coil latches.

HARNESS AND WIRE SYMBOLS	
Wire, Cable, or Harness Assembly Identification: Includes Harness Identification Letters and Harness Connector Serialization Codes (see sample). 	
Harness Identification Letter(s): (A, B, C, AA, AB, AC, ...) Harness Connector Serialization Code: The "C" stands for "Connector" and the number indicates which connector in the harness (C1, C2, C3, ...) 	
	
 Deutsch connector: Typical representation of a Deutsch connector. The plug contains all sockets and the receptacle contains all pins. Sure-Seal connector: Typical representation of a Sure-Seal connector. The plug and receptacle contain both pins and sockets.	



Schematic

D8T Track-Type Tractor Hydraulic System

J8B2394-3999
KPZ3627-UP

COMPONENT LOCATION



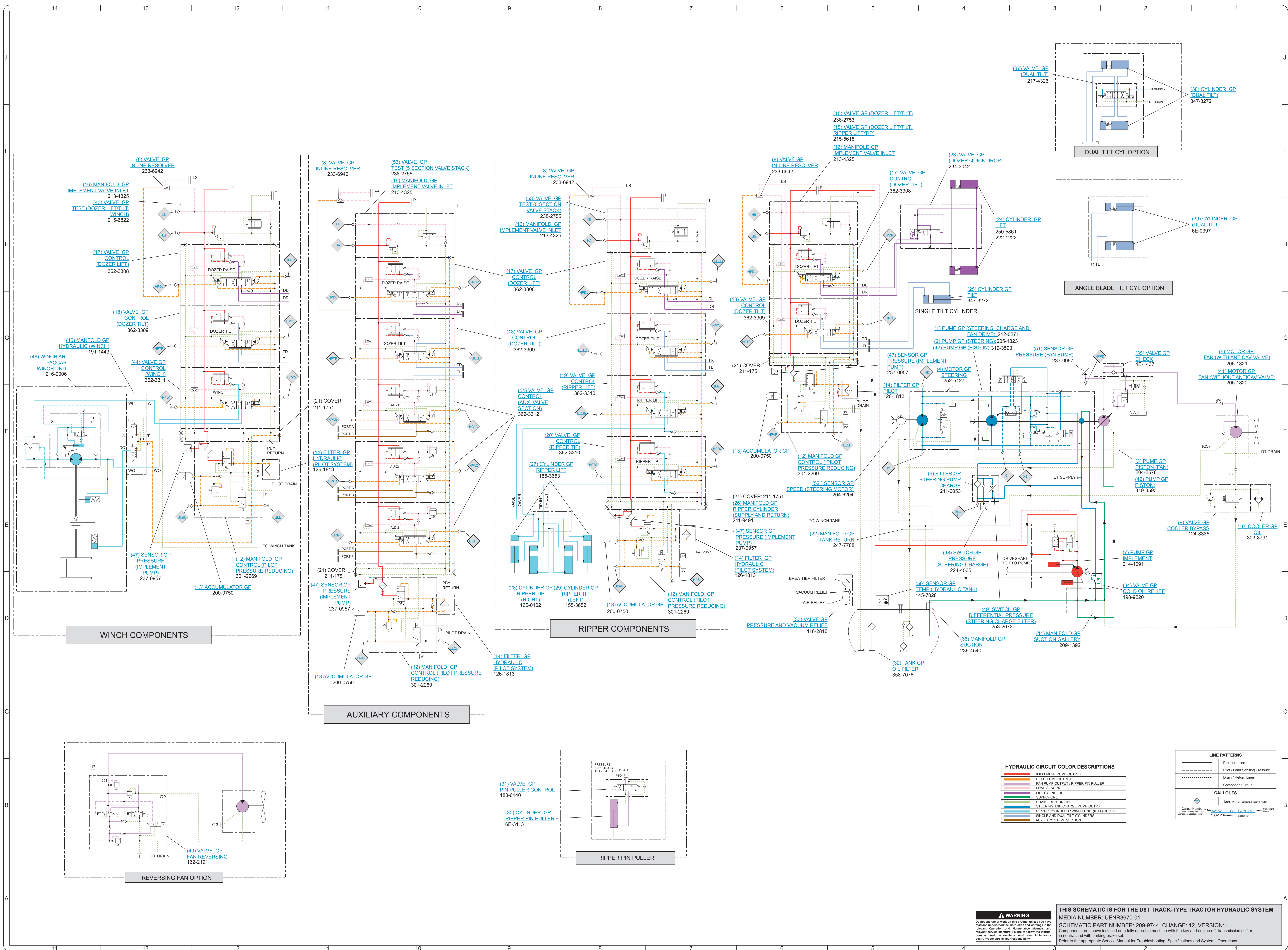
Description	Part Number	Machine Location	Schematic Location
Pump Gp - Steering, Charge And Fan Drive	212-0271	1	F-4
Pump Gp - Steering	205-1823	2	F-4
Pump Gp - Piston (Fan)	204-2578	3	F-2
Motor Gp - Steering	252-5127	4	F-4
Motor Gp - Fan (With Anticav Valve)	205-1821	5	F-1
Filter Gp - Steering Pump Charge	211-6053	6	E-4
Pump Gp - Implement	214-1091	7	E-3
Valve Gp - Inline Resolver	233-6942	8	I-6, I-8, I-11, I-13
Valve Gp - Cooler Bypass	124-8335	9	E-1
Cooler Gp - Oil	303-8791	10	E-1
Manifold Gp - Suction Gallery	209-1392	11	D-3
Manifold Gp - Control (Pilot Pressure Reducing)	301-2269	12	D-10, E-7, E-12, F-6
Accumulator Gp	200-0750	13	D-11, E-8, E-13, F-6
Filter Gp - Hydraulic (Pilot System)	126-1813	14	D-10, E-7, F-5, F-12
Valve Gp - Dozer Lift / Tilt	238-2753	15	H-6
Valve Gp - Dozer Lift / Tilt, Ripper Lift / Tip	215-5615		
Manifold Gp - Implement Valve Inlet	213-4325	16	H-6, H-8, H-10, H-12
Valve Gp - Control (Dozer Lift)	362-3308	17	H-5, H-8, H-10, H-12
Valve Gp - Control (Dozer Tilt)	362-3309	18	G-6, G-8, G-10, G-12
Valve Gp - Control (Ripper Lift)	362-3310	19	F-8
Valve Gp - Control (Ripper Tip)	362-3310	20	F-8
Cover	211-1751	21	E-7, E-10, F-12, G-6
Manifold Gp - Tank Return	247-7788	22	E-5
Valve Gp - Dozer Quick Drop	234-3042	23	H-4
Cylinder Gp - Lift	250-5861 222-1222	24	H-4, I-4
Cylinder Gp - Tilt	347-3272	25	G-4
Manifold Gp - Ripper Cylinder Supply And Return	211-9491	26	E-7
Cylinder Gp - Ripper Lift	155-3653	27	E-8
Cylinder Gp - Ripper Tip (Right)	165-0102	28	E-9
Cylinder Gp - Ripper Tip (Left)	155-3652	29	E-8
Valve Gp - Ripper Pin Puller	6E-3113	30	B-8
Valve Gp - Pin Puller Control	188-6140	31	B-8
Tank Gp - Oil Filter	358-7076	32	D-5
Valve Gp - Pressure And Vacuum Relief	116-2810	33	D-5
Valve Gp - Cold Oil Relief	198-9220	34	D-2
Valve Gp - Check	4E-1437	35	G-2
Manifold Gp - Suction	236-4540	36	D-4
DUAL TILT OPTION			
Valve Gp - Dual Tilt	217-4326	37	J-2
Cylinder Gp - Dual Tilt	347-3272	38	J-2
Cylinder Gp - Dual Tilt	6E-0397	39	H-2
REVERSING FAN OPTION			
Valve Gp - Fan Reversing	162-2191	40	B-13
Motor Gp - Fan (Without Anticav Valve)	205-1820	41	F-1
Pump Gp - Piston	319-3593	42	F-2
WINCH OPTION			
Valve Gp - Test (Dozer Lift / Tilt, Winch)	215-6822	43	H-12
Valve Gp - Control (Winch)	362-3311	44	F-12
Manifold Gp - Hydraulic (Winch)	191-1443	45	F-13
Winch Ar - Paccar Winch Unit	216-9006	46	F-14
ELECTRICAL COMPONENTS			
Sensor Gp - Pressure (Implement Pump)	237-0957	47	D-11, E-8, F-13, G-6
Switch Gp - Pressure (Steering Charge)	224-4535	48	E-4
Switch Gp - Differential Pressure (Steering Charge Filter)	253-2673	49	E-4
Sensor Gp - Temp (Hydraulic Tank)	145-7028	50	D-5
Sensor Gp - Pressure (Fan Pump)	237-0957	51	G-3
Sensor Gp - Speed (Steering Motor)	204-6204	52	F-5
ATTACHMENTS			
Valve Gp - Test (5-section Valve Stack)	238-2755	53	H-8, H-10
Valve Gp - Control (Aux. Valve Section)	362-3312	54	E-10, F-10

Check Part Numbers in the Parts Manuals for your Specific Machine

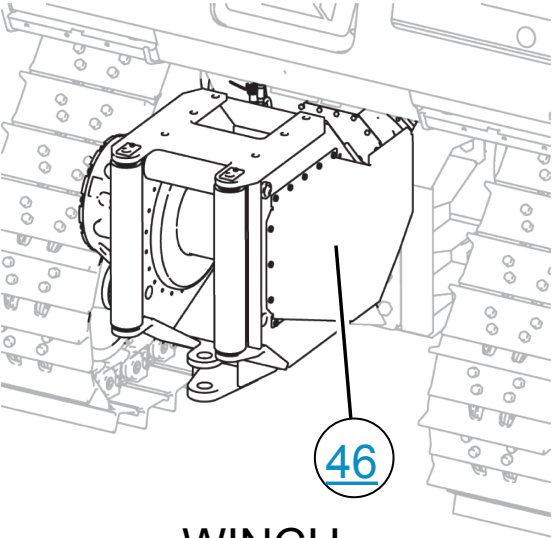
TAP LOCATION



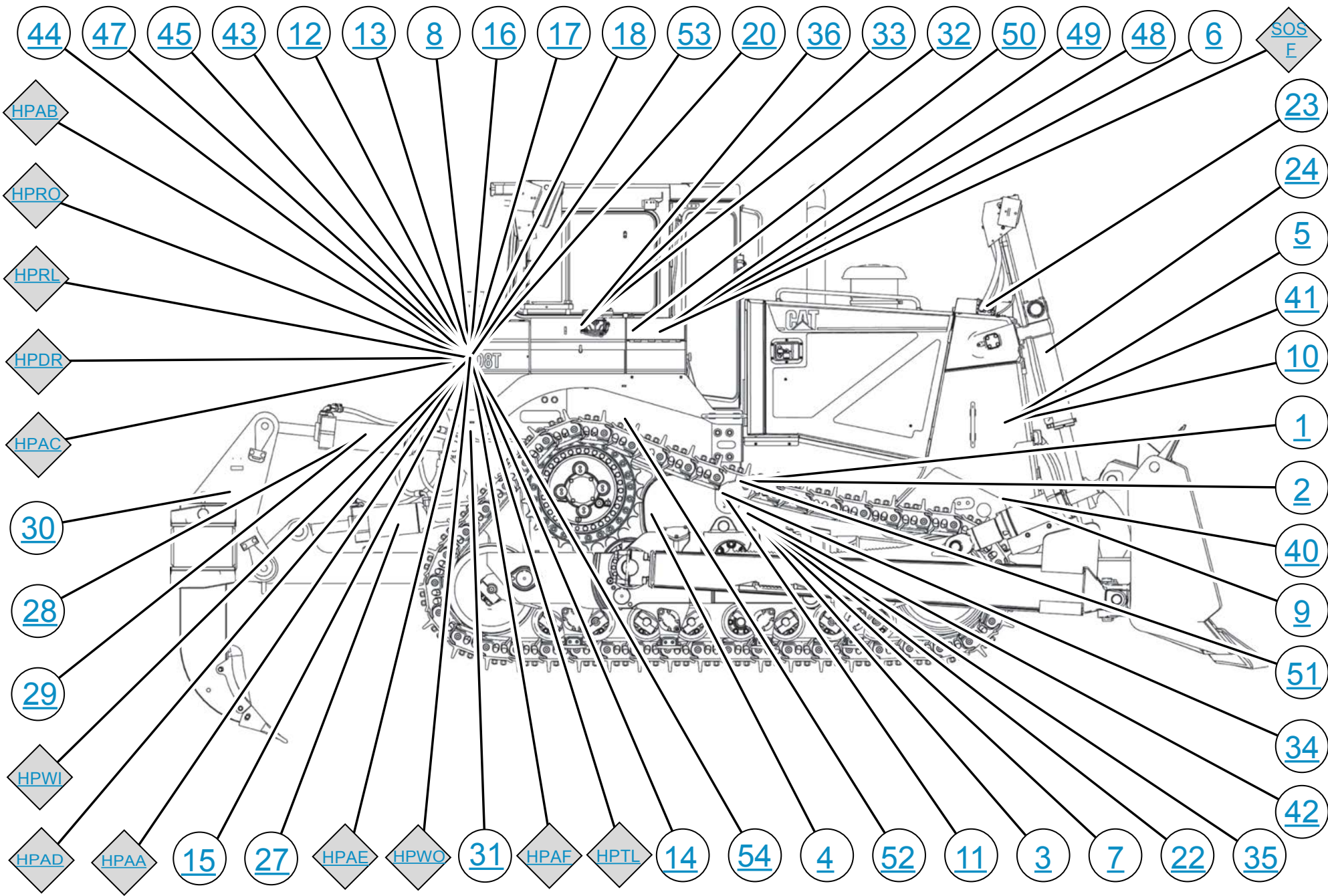
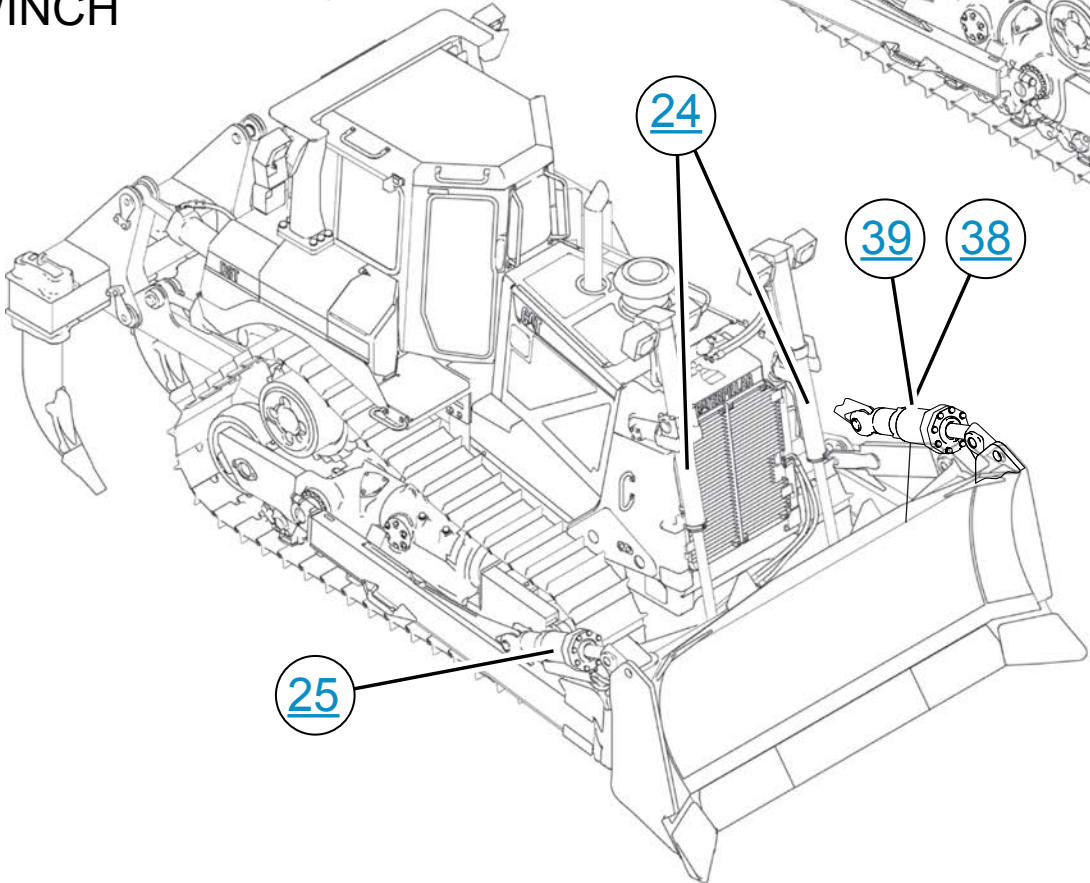
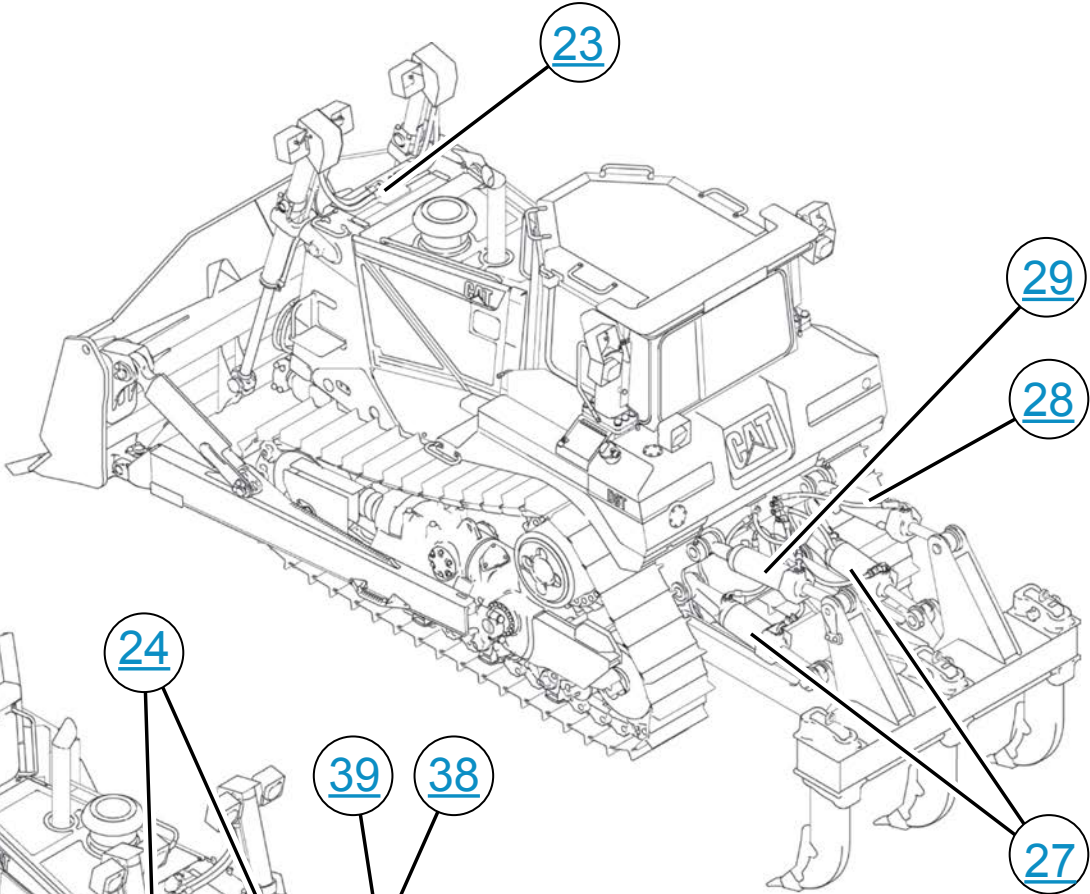
Tap Number	Description	Schematic Location
HA	Impl Pump Pressure	H-6, H-8, H-10, H-12
HB	Impl Pump Signal	H-6, H-8, H-10, H-12
HC	L Steering Loop - Motor	F-4
HD	R Steering Loop - Motor	F-4
HFPD	Hyd Fan Pump Discharge	G-2
HPAA	Pilot Rear Aux A Port	F-10
HPAB	Pilot Rear Aux B Port	F-11
HPAC	Pilot Rear Aux C Port	F-10
HPAD	Pilot Rear Aux D Port	E-11
HPAE	Pilot Rear Aux E Port	E-10
HPAF	Pilot Rear Aux F Port	E-11
HPAP	Hyd Pilot Accumulator Pressure	D-11, E-8, F-6
HPDR	Hyd Pilot Dozer Raise	H-5, H-7, H-10, H-12
HPDL	Hyd Pilot Dozer Lower	G-11, H-6, H-8, H-13
HPRI	Hyd Pilot Ripper Tip - In	F-8
HPRO	Hyd Pilot Ripper Tip - Out	F-7
HPRL	Hyd Pilot Ripper Lower	F-7
HPRR	Hyd Pilot Ripper Raise	F-8
HPS	Regulated Pilot Pressure	D-7, D-10, F-5
HPTL	Hyd Pilot Tilt Left	G-5, G-7, G-10, G-12
HPTR	Hyd Pilot Tilt Right	G-6, G-8, G-11, G-13
HPWI	Hyd Pilot Winch In	F-13
HPWO	Hyd Pilot Winch Out	F-12
SOS/E	Charge Pump Discharge Pressure	E-4
X1	Right Steer Actuator	F-4
X2	Left Steer Actuator	F-3



COMPONENT LOCATION 1



WINCH

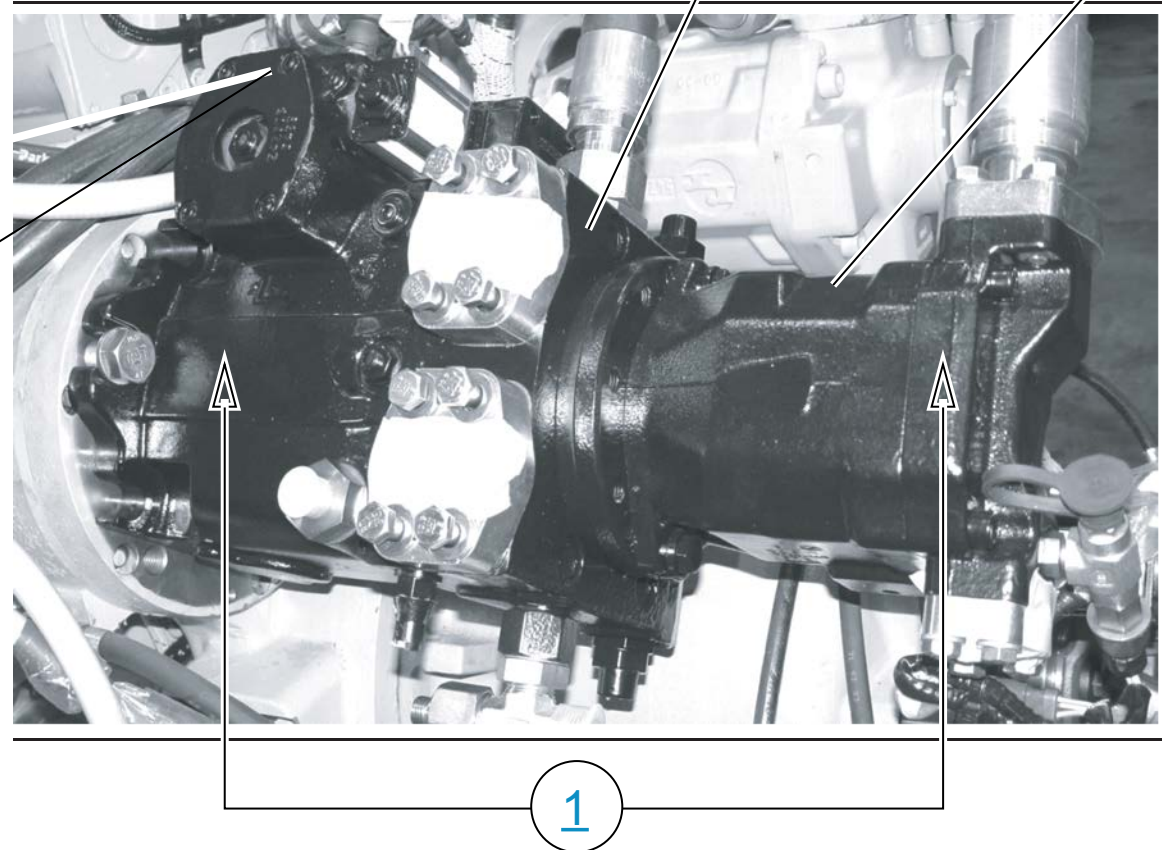


COMPONENT LOCATION 2



(1) Steering, Charge and Fan Drive Pump Steering Charge Pump Fan Drive Pump

Steering Pump



31

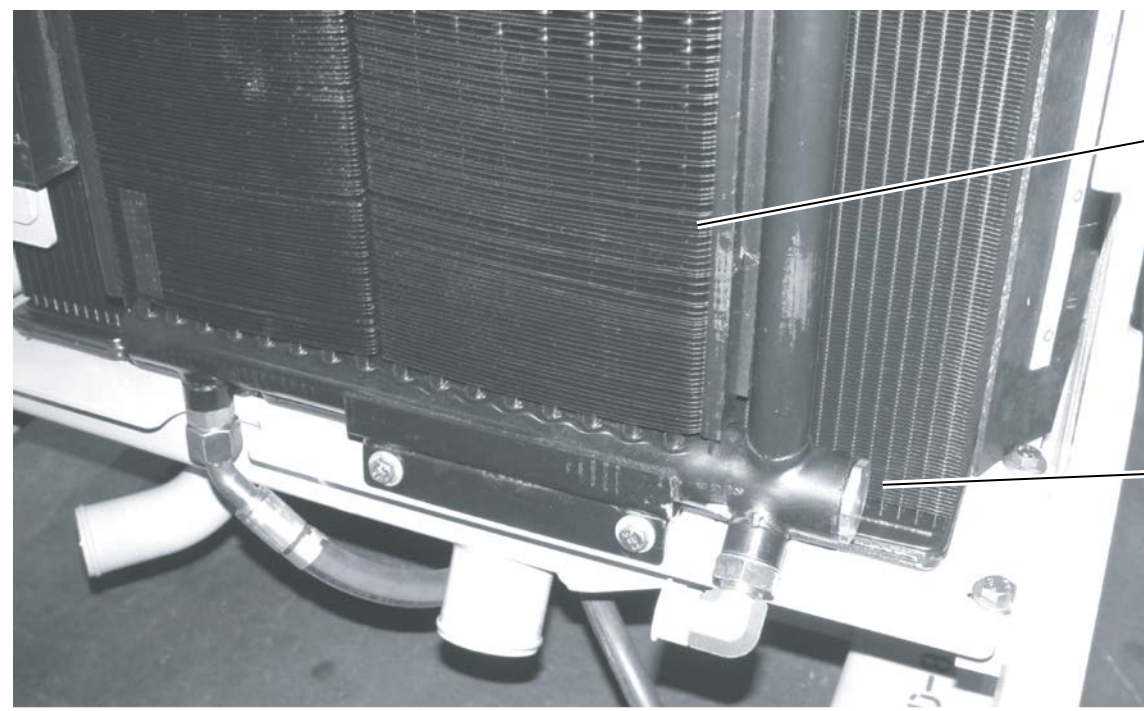


(31) Pin Puller Valve (Attachment)

Pin Puller Solenoid

10

9



(9) Cooler Bypass Valve
(10) Hydraulic Oil Cooler

37

Dual Tilt Valve Solenoid



(37) Dual Tilt Valve (Attachment)

