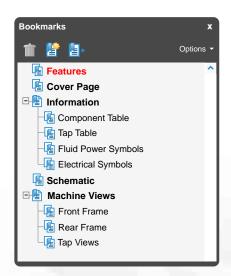
#### **INTERACTIVE SCHEMATIC**





#### 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**.

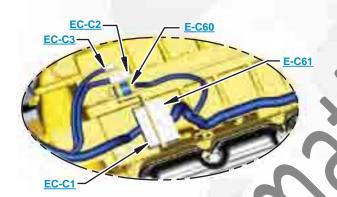
**CLICK** the **SETTINGS TAB**.

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 naviate 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			
<b>+</b>	Zoom In	"CTRL" / "+"			
	Zoom Out	"CTRL" / "-"			
	Fit to Page	"CTRL" / "0" (zero)			
	Hand Tool	"SPACEBAR" (hold down)			
	Find	"CTRL" / "F"			



# Schematic

## D8R Track-Type Tractor Hydraulic System

AKA1-UP 6YZ1-UP

Volume 1 of 2: Ripper Volume 2 of 2: Winch

## **COMPONENT LOCATION Volume 1 of 2 - RIPPER**



Component	Part Number	Machine Location	Schematic Location
Pump Gp - Steering / Cooling	139-4151	<u>1</u>	<u>F-4</u>
Motor Gp - Steering	159-7162	<u>2</u>	<u>F-7</u>
Pump Gp - Implement	9T-8346	<u>3</u>	<u>D-4</u>
Valve Gp - Dozer and Ripper Imp Dozer Only	160-5951 160-5952	40	<u>D-5</u>
Manifold Gp - Inlet and Relief	163-0829	5	<u>D-5</u>
Valve Gp - Dozer Lift Section	160-5953	6	<u>D-5</u>
Valve Gp - Tilt Section	160-5954		<u>C-5</u>
Valve Gp - Ripper Lift and Tilt Sections	169-3323	<u>8</u>	<u>B-5</u>
Cover - End	169-9119	<u>10</u>	<u>A-5</u>
Valve Gp - Dozer Pilot Control	200-0189	<u>11</u>	<u>A-3</u>
Valve Gp - Ripper Pilot Control	184-5321	<u>12</u>	<u>A-8</u>
Valve Gp - Implement Lockout	130-4531	<u>14</u>	<u>B-8</u>
Accumulator - Pilot Circuit	200-0750	<u>15</u>	<u>C-8</u>
Valve Gp - Pressure Reg Manifold	162-0162	<u>16</u>	<u>C-8</u>
Valve Gp - Cooler Bypass	126-0747	<u>17</u>	<u>E-3</u>
Cooler - Hydraulic Oil	153-1271	<u>18</u>	<u>D-2</u>
Filter Gp - Steering Charge	177-6979	<u>19</u>	<u>F-3</u>
Valve Gp - Steering Pilot	9T-8693	<u>20</u>	<u>F-3</u>
Valve Gp - Pressure Control	163-0057	<u>21</u>	<u>E-7</u>
Valve Gp - Quick Drop	109-6942	<u>22</u>	<u>D-2</u>
Cylinder Gp - Lift	6E-1102	<u>23</u>	<u>D-1</u>
Cylinder Gp - Dual Tilt	6E-0397	<u>24</u>	<u>C-1</u>
Cylinder Gp - Single Tilt	6E-1175	<u>25</u>	<u>B-1</u>
Cylinder Gp - Ripper Tip (LH)	155-3652	<u>26</u>	<u>D-8</u>
Cylinder Gp - Ripper Tip (RH)	165-0102	<u>27</u>	<u>D-8</u>
Cylinder Gp - Ripper Lift	155-3653	<u>28</u>	<u>D-7</u>
Cylinder Gp - Pin Puller	6E-3113	<u>29</u>	<u>E-8</u>
Tank Gp - Hydraulic Oil	164-3700	<u>30</u>	<u>C-3</u>
Valve Gp - Dual Tilt	106-9648	<u>32</u>	<u>C-1</u>

## **COMPONENT LOCATION Volume 2 of 2 - WINCH**



Component	Part Number	Machine Location	Schematic Location
Pump Gp - Steering / Cooling	139-4151	<u>1</u>	<u>F-4</u>
Motor Gp - Steering	159-7162	<u>2</u>	<u>F-6</u>
Pump Gp - Implement	9T-8346	3	<u>D-4</u>
Valve Gp - Dozer & Winch Imp Dozer Only	160-8612 160-5952	4	<u>D-6</u>
Manifold Gp - Inlet & Relief	163-0829	<u>5</u>	<u>D-5</u>
Valve Gp - Dozer Lift Section	160-5953	<u>6</u>	<u>C-5</u>
Valve Gp - Tilt Section	160-5954	<u>7</u>	<u>C-5</u>
Valve Gp - Winch Section	124-2906	9	<u>B-5</u>
Cover - End	169-9119	<u>10</u>	<u>B-5</u>
Valve Gp - Dozer Pilot Control	200-0189	<u>11</u>	<u>A-3</u>
Valve Gp - Winch Pilot Control	160-0766	<u>13</u>	<u>A-8</u>
Valve Gp - Implement Lockout	130-4531	<u>14</u>	<u>B-8</u>
Accumulator - Pilot Circuit	200-0750	<u>15</u>	<u>B-8</u>
Valve Gp - Pressure Reg Manifold	162-0162	<u>16</u>	<u>C-8</u>
Valve Gp - Cooler Bypass	126-0747	<u>17</u>	<u>E-3</u>
Cooler - Hydraulic Oil	153-1271	<u>18</u>	<u>D-2</u>
Filter Gp - Steering Charge	177-6979	<u>19</u>	<u>F-3</u>
Valve Gp - Steering Pilot	9T-8693	<u>20</u>	<u>F-3</u>
Valve Gp - Pressure Control	163-0057	<u>21</u>	<u>E-6</u>
Valve Gp - Quick Drop	109-6942	<u>22</u>	<u>D-2</u>
Cylinder Gp - Lift	6E-1102	<u>23</u>	<u>D-1</u>
Cylinder Gp - Dual Tilt	6E-0397	<u>24</u>	<u>C-1</u>
Cylinder Gp - Single Tilt	6E-1175	<u>25</u>	<u>B-1</u>
Tank Gp - Hydraulic Oil	164-3700	<u>30</u>	<u>C-3</u>
Winch Unit	160-5555	<u>31</u>	<u>E-8</u>
Valve Gp - Dual Tilt	106-9648	<u>32</u>	<u>C-1</u>

## **TAP LOCATION Volume 1 of 2 - RIPPER**



Тар	Description	Schematic		
Number	2001.p.io.i	Location		
<u>HB</u>	Implement Pump Signal Pressure	<u>D-4</u>		
<u>E</u>	Charge Pump Discharge Pressure	<u>E-7</u>		
<u>G</u>	Case Return	<u>E-7</u>		
<u>H</u>	Filter Outlet Pressure	<u>F-3</u>		
<u>HA</u>	Implement Pump Discharge At Pump	<u>E-7</u>		
<u>HC</u>	Left Steering Loop	<u>F-7</u>		
<u>HD</u>	Right Steering Loop	<u>F-7</u>		
<u>J</u>	Hydraulic Oil Cooler Inlet Pressure	<u>D-2</u>		
<u>K</u>	Filter Inlet Pressure (SOS)	<u>F-3</u>		
<u>X1</u>	Right Steer Actuator Signal Pressure	<u>F-4</u>		
<u>X2</u>	Left Steer Actuator Signal Pressure	<u>F-4</u>		
<u>Y1</u>	Left Steer Pilot Signal	<u>E-3</u>		
<u>Y2</u>	Right Steer Pilot Signal	<u>E-3</u>		
<u>CP</u>	Pilot Oil Supply Pressure	<u>B-8</u>		
Non Tap Location Points Of Reference				
А	Implement Pump Discharge Pressure	D-4		
E	Charge Pump Relief Pressure	F-5		
MA	Right Steer Loop At Pump	F-5		
MB	Left Steer Loop At Pump	F-5		
PS	Steer Pump Control Supply	F-5		

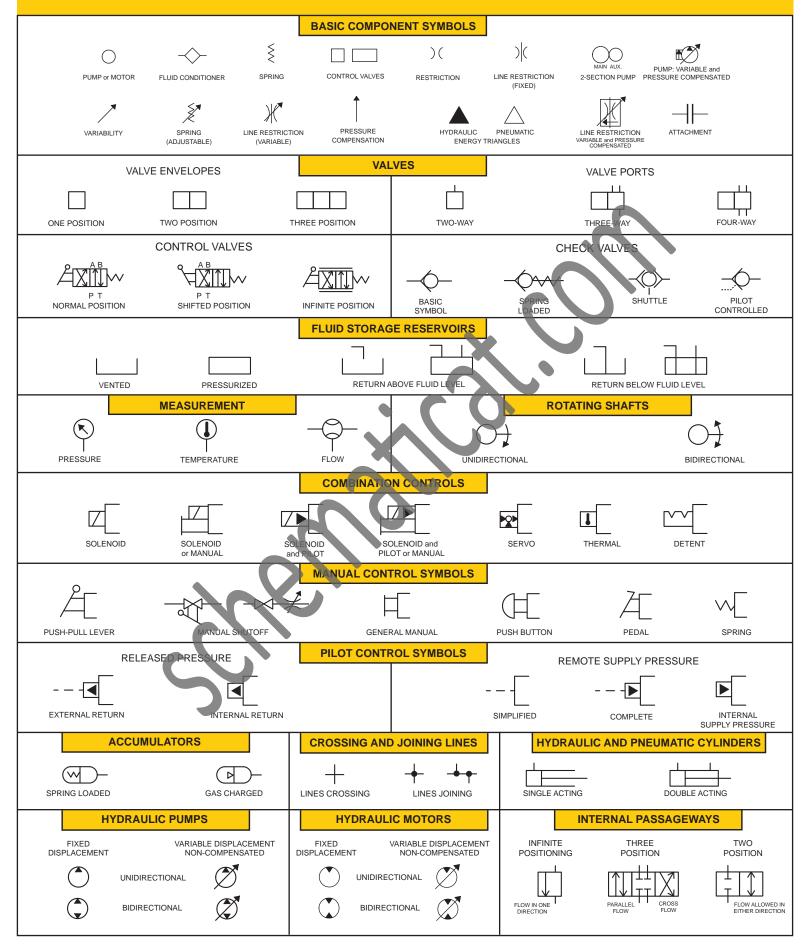
### **TAP LOCATION Volume 2 of 2 - WINCH**



Tap Number	Description	Schematic Location			
<u>HB</u>	Implement Pump Signal Pressure	<u>D-4</u>			
E	Charge Pump Discharge Pressure	<u>E-6</u>			
<u>G</u>	Case Return	<u>E-6</u>			
<u>H</u>	Filter Outlet Pressure	<u>F-3</u>			
<u>HA</u>	Implement Pump Discharge At Pump	<u>E-6</u>			
<u>HC</u>	Left Steering Loop	<u>F-6</u>			
<u>HD</u>	Right Steering Loop	<u>F-6</u>			
<u>J</u>	Hydraulic Oil Cooler Inlet Pressure	<u>D-2</u>			
<u>K</u>	Filter Inlet Pressure (SOS)	<u>F-3</u>			
<u>X1</u>	Right Steer Actuato Signal Pressure	<u>F-4</u>			
<u>X2</u>	Left Steer Actuator Signal Pressure	<u>F-4</u>			
<u>Y1</u>	Left Steer Pilot Signal	<u>E-3</u>			
<u>Y2</u>	Right Steer Pilot Signal	<u>E-3</u>			
<u>CP</u>	Pilot Oil Supply Pressure	<u>B-8</u>			
Non Tap Location Points Of Reference					
А	Implement Pump Discharge Pressure	D-4			
E	Charge Pump Relief Pressure	F-5			
MA	Right Steer Loop At Pump	F-5			
MB	Left Steer Loop At Pump	F-5			
PS	Steer Pump Control Supply	F-5			

#### **FLUID POWER SYMBOLS**





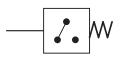
#### **ELECTRICAL SYMBOLS**



#### **Hydraulic Symbols (Electrical)**



Transducer (Fluid)



Pressure Switch



Transducer (Gas / Air)



Generator



**Electric Motor** 



Pressure Switch (Adjustable)



Temperature Switch



**Electrical Wire** 

#### Electrical Symbols (Electrical)



Pressure Symbol



Temperature Symbol



Level Symbol



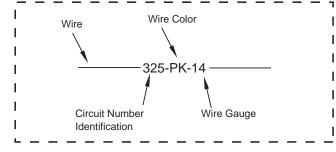
Flow Symbol

#### **Wire Number Identification Codes**

#### **Electrical Schematic Example**

# Current Standard Harness identification code This example indicates wire 135 in harness "AG". Wire 325-AG 135 PK-14 Circuit Identification Number Wire Color Wire Gauge

#### Previous Standard



#### **Hydraulic Schematic Example**

#### Current Standard

