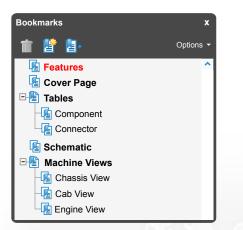
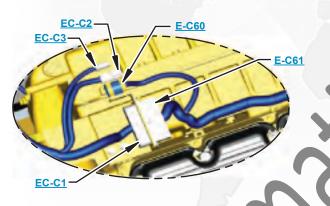
INTERACTIVE SCHEMATIC





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

*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 RDF reader preferences there may be some variance in linked schematic locations



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.

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

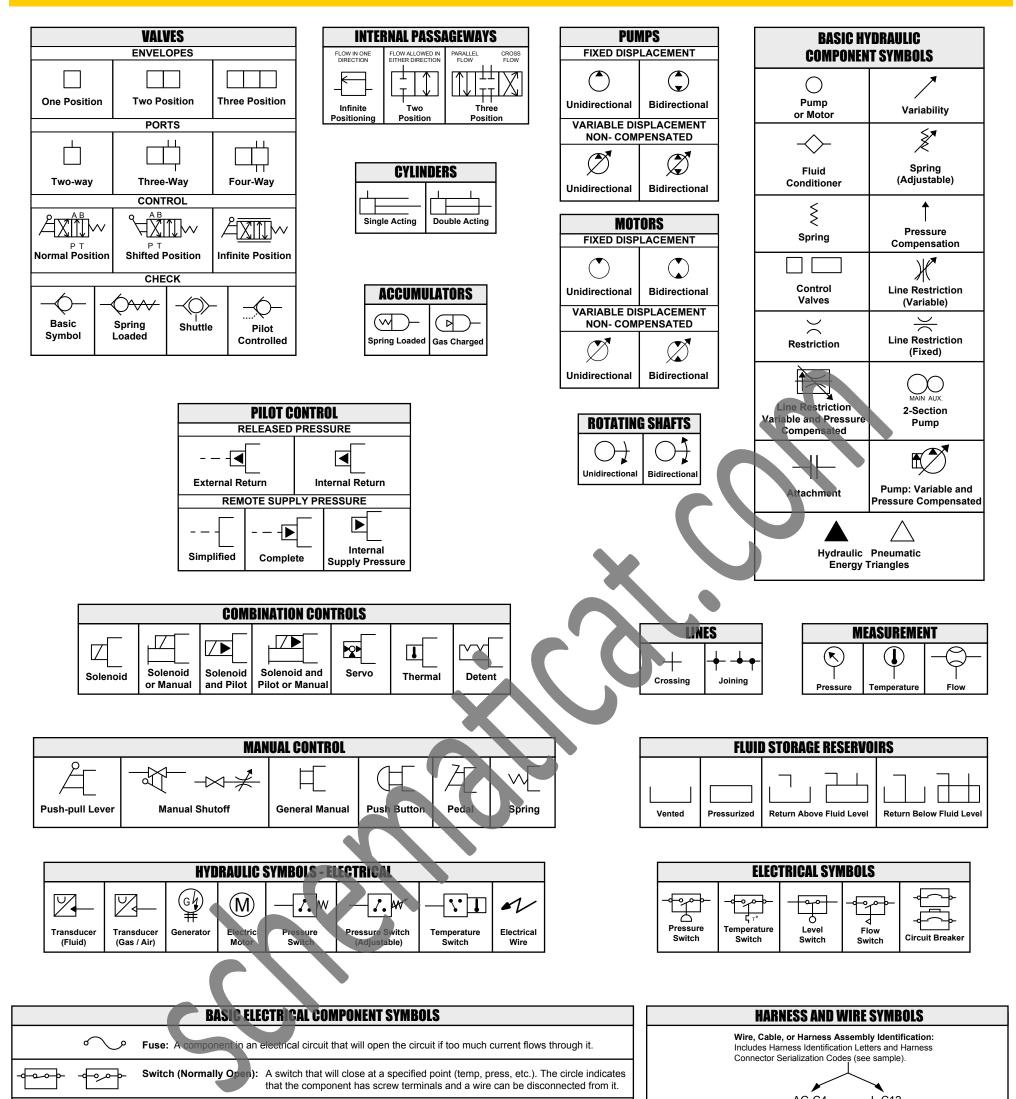
ELECTRICAL SYMBOLS	BASIC HYDRAULIC Component symbols		
Pressure Switch Switch Switch Circuit Breaker	O Pump or Motor	Variabili	
Click here to view the	\rightarrow	X	
Schematic Symbols	Fluid Conditioner	Spring (Adjustat	
and Definitions page			



Variability Ł Spring (Adjustable

SCHEMATIC SYMBOLS AND DEFINITIONS





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.	AG-C4 L-C12 111-7898 3E-5179 Part Number: for 1 (
Ground (Wired): This indicates that the component is connected to a grounded wire. The grounded wire is fastened to the machine.	Plug Receptacle
Ground (Case): This indicates that the component does not have a wire connected to ground. It is grounded by being fastened to the machine.	Harness Identification Letter(s): (A, B, C, AA, AB, AC,)
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.	Harness Connector Serialization Code: The "C" stands for "Connector" and the number indicates which connector in the harness (C1, C2, C3,)
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.	L-C12 3E-5179
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.	Fuse (5 Amps) 9X-1123 Component Part Number 325-AG135 PK-14 Harness identification code: Wire Gauge
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.	wire 135 in harness "AG". Wire Color Wire Color Deutsch connector: Typical representation of a Deutsch connector. The plug contains all
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.	7 2 7 sockets and the receptacle contains all pins. 7 2 7 sockets and the receptacle contains all pins. 7 3 7 Sure-Seal connector: Typical representation of a Sure-Seal connector. The plug and receptacle contain both pins and sockets.

CATERPILLAR®



725C and 730C Articulated Truck Hydraulic System

725C: 730C: LFB1-UP TFB1-UP TFF1-UP

COMPONENT TABLE



Component Locations							
Description		Machine Location	Schematic Location	Description		Machine Location	Schematic Location
Accumulator GP - Brake	236-7794	<u>1</u>	<u>F-8</u>	Plug - Orifice	166-4057	<u>23</u>	<u>D-5</u>
Accumulator GP - Brake (Parking) (Main Control Valve)	163-5632	<u>2</u>	<u>E-7</u>	Pump GP - ATAAC	371-9334	<u>24</u>	<u>D-1</u>
Body - Drain Valve	8J-8782	<u>3</u>	<u>B-5</u>	Pump GP - Fan, Brake, and Hoist	240-2647	<u>25</u>	<u>C-7</u>
Brake GP - Hydraulic Caliper (LH Center Axle)	347-9761	<u>4</u>	<u>F-2</u>	Pump GP - Metering (HMU)	223-7718	<u>26</u>	<u>D-4</u>
Brake GP - Hydraulic Caliper (LH Front Axle)	347-9761	<u>5</u>	<u>D-8</u>	Pump GP - Secondary Steering	369-7919	<u>27</u>	<u>D-5</u>
Brake GP - Hydraulic Caliper (LH Rear Axle)	347-9761	<u>6</u>	<u>F-1</u>	Pump GP - Steering	240-2647	<u>28</u>	<u>C-6</u>
Brake GP - Hydraulic Caliper (RH Center Axle)	347-9761	<u>7</u>	<u>F-2</u>	Screen - Hydraulic Tank (Fan, Brake, and Hoist and Steering Pumps)	119-4885	<u>29</u>	<u>B-6</u>
Brake GP - Hydraulic Caliper (RH Front Axle)	347-9761	<u>8</u>	<u>E-8</u>	Screen - Hydraulic Tank (Main Hydraulic Fan and ATAAC Motors)	119-4885	<u>30</u>	<u>B-4</u>
Brake GP - Hydraulic Caliper (RH Rear Axle)	347-9761	<u>9</u>	<u>F-1</u>	Sensor GP - Pressure (Brake Oil) (S2)	344-7391	<u>31</u>	<u>F-7</u>
Brake GP - Parking	160-8009	<u>10</u>	<u>F-5</u>	Sensor GP - Pressure (Brake Oil) (S3)	344-7391	<u>32</u>	<u>F-7</u>
Breather - Hydraulic Tank	356-7423	<u>11</u>	<u>C-5</u>	Sensor GP - Pressure (Parking Brake Warning)	344-7391	<u>33</u>	<u>F-6</u>
Cylinder GP - Hoist (LH)	285-4031	<u>12</u>	<u>F-3</u>	Switch AS - Pressure (Steering)	313-5104	<u>34</u>	<u>D-6</u>
Cylinder GP - Hoist (RH)	285-4032	<u>13</u>	<u>F-3</u>	Switch GP - Pressure (Hydraulic Tank Return Bypass)	253-2673	<u>35</u>	<u>C-3</u>
Cylinder GP - Steering (LH)	349-8518	<u>14</u>	<u>E-3</u>	Tank GP - Hydraulic	381-3512	<u>36</u>	<u>B-3</u>
Cylinder GP - Steering (RH)	349-8517	<u>15</u>	<u>D-3</u>	Valve AS - Control (Hydraulic Oil)	360-5604	<u>37</u>	<u>D-2</u>
Cylinder GP - Suspension (LH)	341-4122	<u>16</u>	<u>B-4</u>	Valve GP - Brake Pedal	373-4532	<u>38</u>	<u>D-8</u>
Cylinder GP - Suspension (RH)	341-4122	<u>17</u>	<u>F-4</u>	Valve GP - Check (Hydraulic Oil Cooler Bypass)	145-8983	<u>39</u>	<u>C-3</u>
Filter Element AS - Hydraulic Oil	132-8876	<u>18</u>	<u>B-3</u>	Valve GP - Cross-Axle Differential Control (Center and Rear Axle)	432-1661	<u>40</u>	<u>C-1</u>
Motor GP - ATAAC	395-0530	<u>19</u>	<u>E-1</u>	Valve GP - Cross-Axle Differential Control (Front Axle)	432-1661	<u>41</u>	<u>C-2</u>
Motor GP - Main Hydraulic Fan	293-6517	<u>20</u>	<u>D-2</u>	Valve GP - Hoist Control	281-3307	<u>42</u>	<u>E-4</u>
Oil Cooler	366-8881	<u>21</u>	<u>D-2</u>	Valve GP - Main Control	437-1480	<u>43</u>	<u>F-7</u>
Plate AS - Diffuser	419-3907	<u>22</u>	<u>B-3</u>	Valve GP - Solenoid (ATAAC Control)	211-2092	<u>44</u>	<u>E-1</u>

TAP TABLE

N

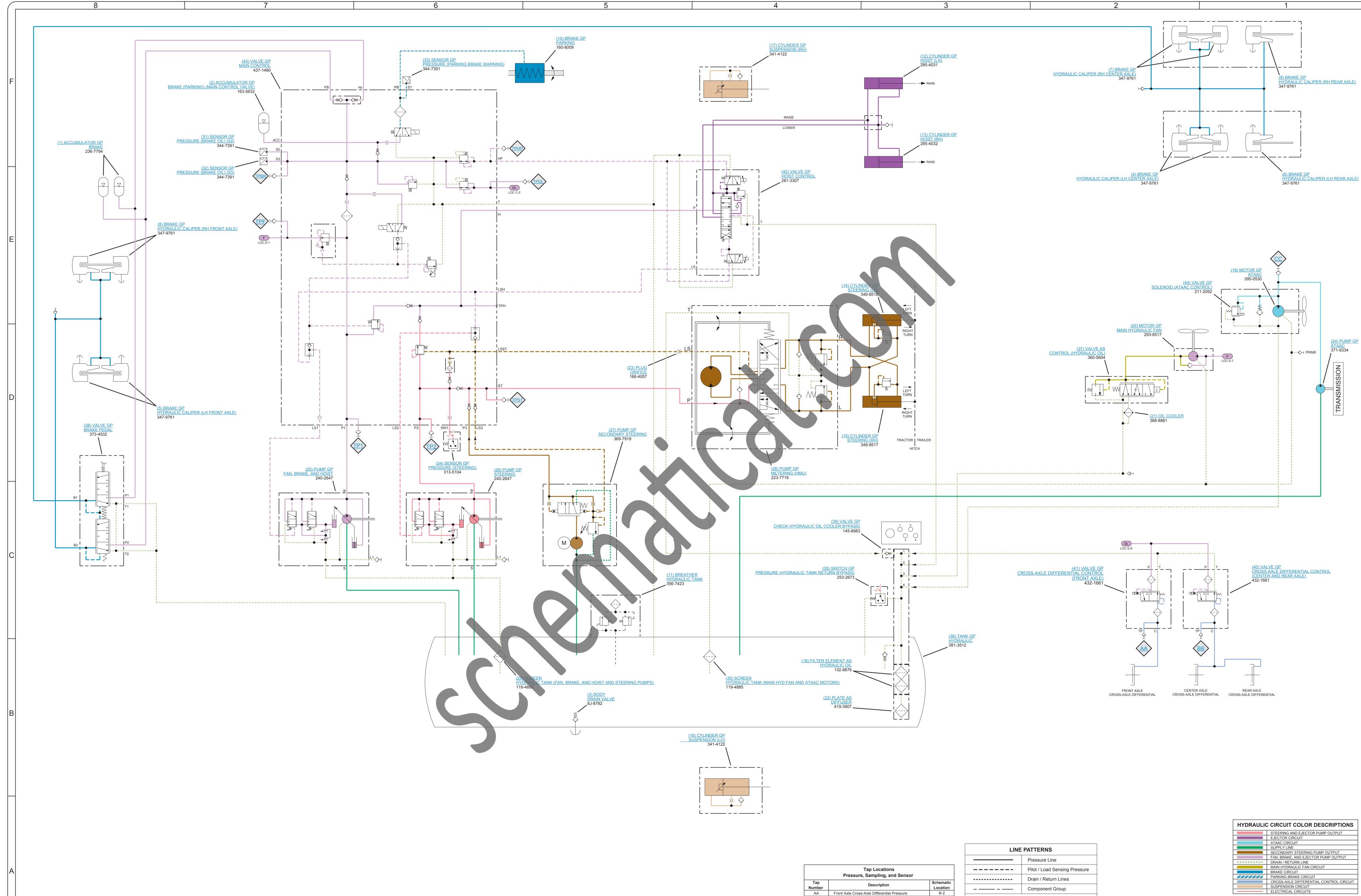


Tap Locations Pressure, Sampling, and Sensor

Tap Number	Description	Schematic Location	
<u>AA</u>	Front Axle Cross-Axle Differential Pressure	<u>B-2</u>	
BB	Center and Rear Axle Cross-Axle Differential Pressure	<u>B-1</u>	
<u>CC</u>	ATAAC Fan Pressure	<u>E-1</u>	
<u>TP1</u>	Fan, Brake, and Hoist Pump Pressure	<u>D-6</u>	
<u>TP2</u>	Steering Pump Pressure	<u>D-6</u>	
<u>TPBR</u>	Brake Accumulator Charge Pressure	<u>E-7</u>	
TPDL	Cross-Axle Differential Pressure	<u>E-5</u>	
<u>TPF</u>	Fan Drive Pressure	<u>E-7</u>	
<u>TPHP</u>	Hoist Pilot Pressure	<u>F-6</u>	
<u>TPST</u>	Steering Pressure	<u>D-6</u>	







 Number

 AA
 Front Axle Cross-Axle Differential Pressure

 BB
 Center and Rear Axle Cross-Axle Differential Pressure

 CC
 ATAAC Fan Pressure

 TP1
 Fan, Brake, and Hoist Pump Pressure

 TP2
 Steering Pump Pressure

 TPBR
 Brake Accumulator Charge Pressure

 TPDL
 Cross-Axle Differential Pressure

 TPF
 Fan Drive Pressure

 TPHP
 Hoist Pilot Pressure

 TPST
 Steering Pressure

4

B-2 B-1

E-1 D-6 E-7 E-5 E-7 F-6 D-6

CALLOUTS

Callout Number (Machine Location from Component LocationsTable) (52) VALVE GP - CONTROL

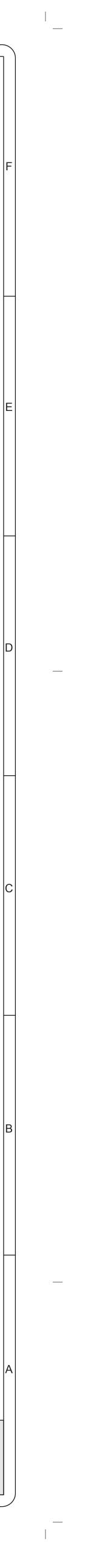
Connections

Taps (Pressure, Sampling, Sensor - by letter)

< YY>

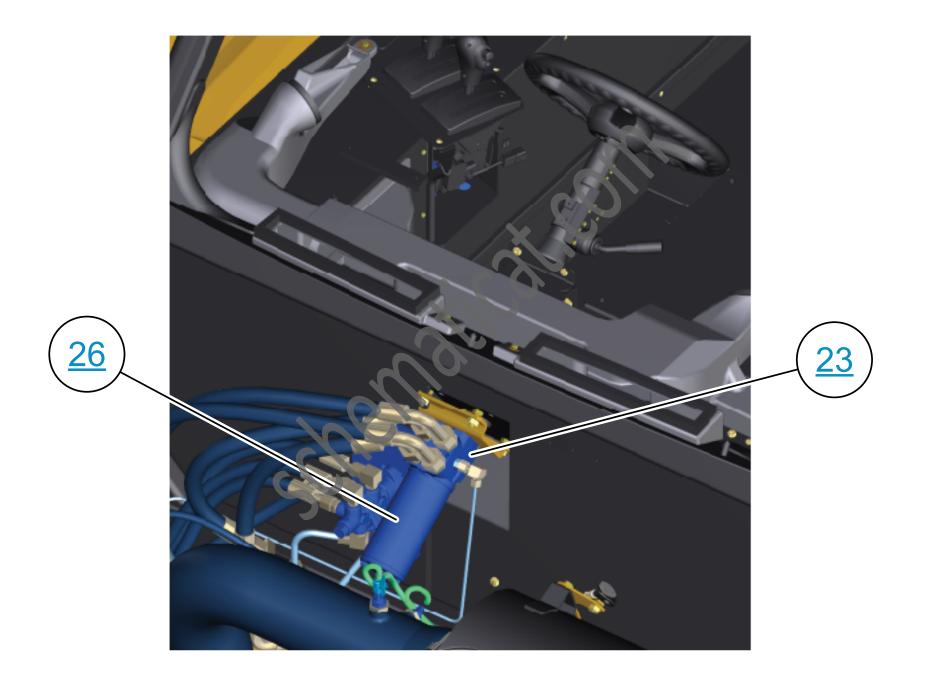
F

THIS SCHEMATIC IS FOR THE 725C AND 730C ARTICULATED TRUCK HYDRAULIC SYSTEM MEDIA NUMBER: UENR3202 SCHEMATIC PART NUMBER: 372-5143, CHANGE: 00, VERSION: GB Components are shown installed on a fully operable machine with the key and engine off, transmission shifter in neutral and with parking brake set. Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations. Note: Refer to the Parts Manual using a specific serial number prefix in SIS before ordering parts from this schematic.



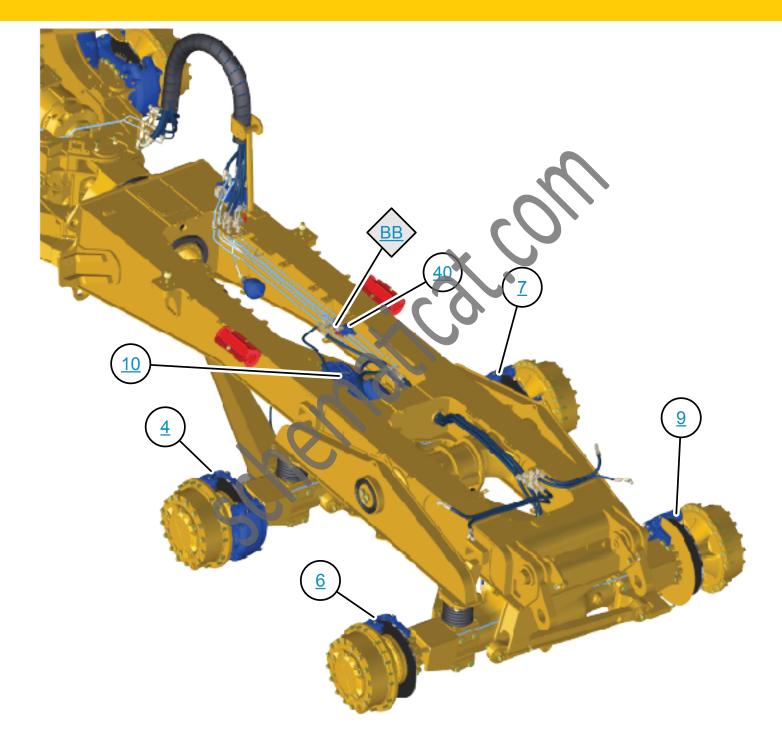
STEERING COMPONENTS





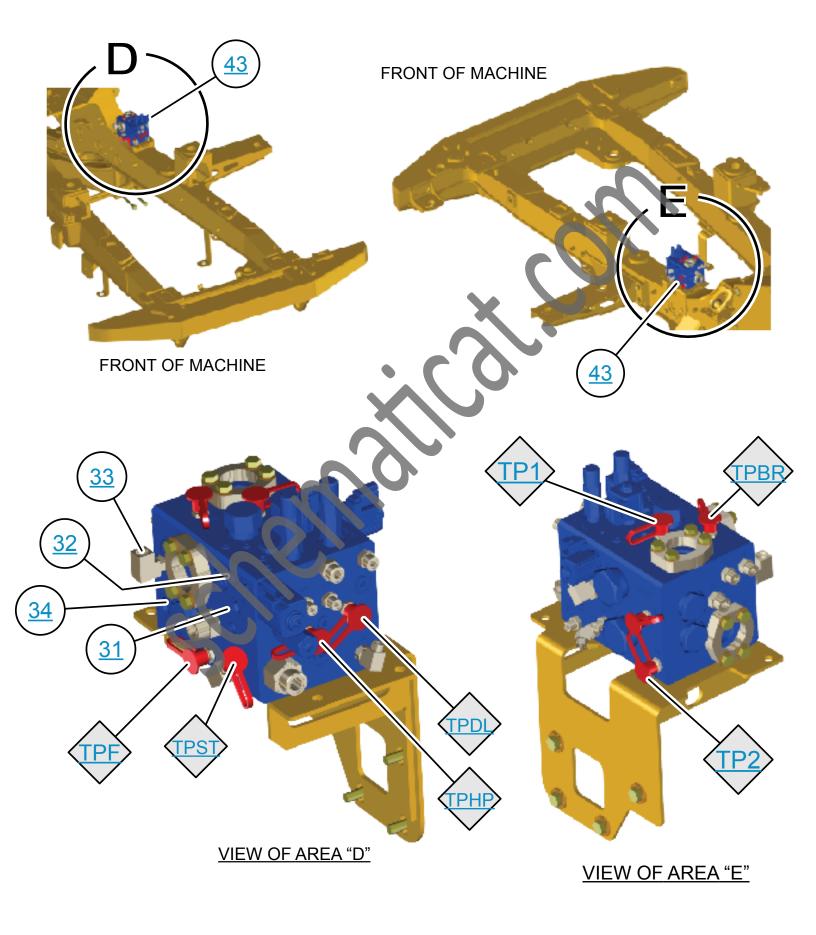
REAR FRAME COMPONENTS





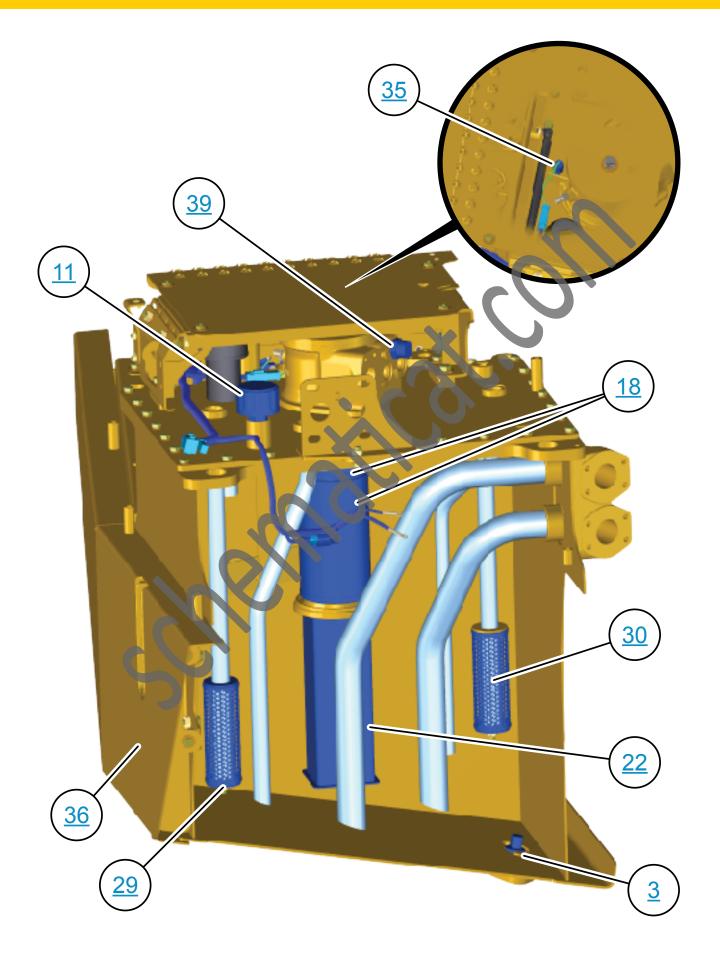
MAIN CONTROL VALVE





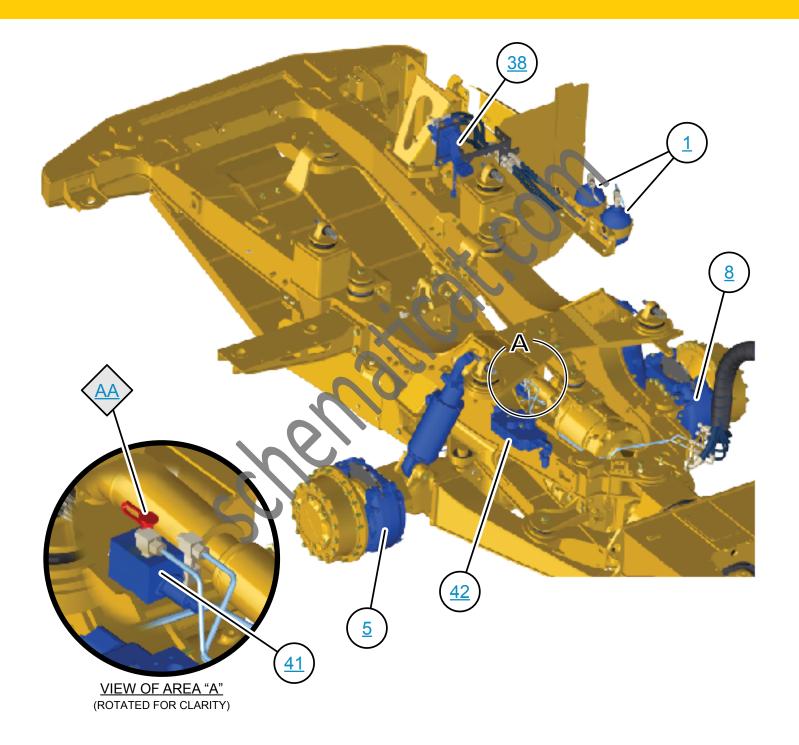
HYDRAULIC TANK





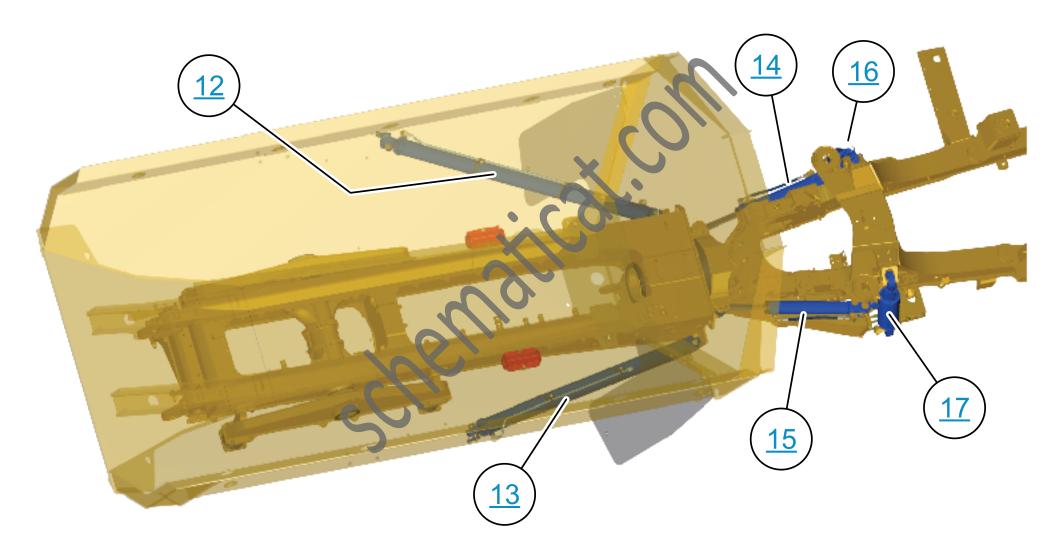
FRONT FRAME COMPONENTS





CYLINDERS





BELOW CAB COMPONENTS



