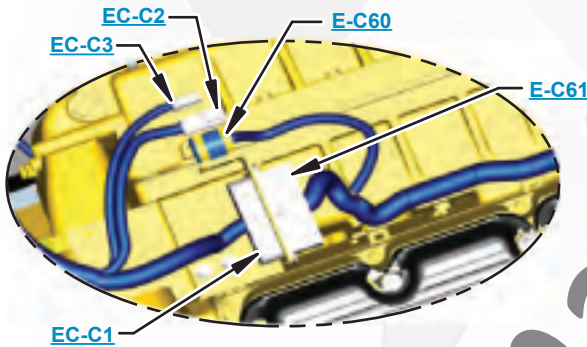


The Bookmarks panel will allow you to quickly navigate to points of interest.

****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”

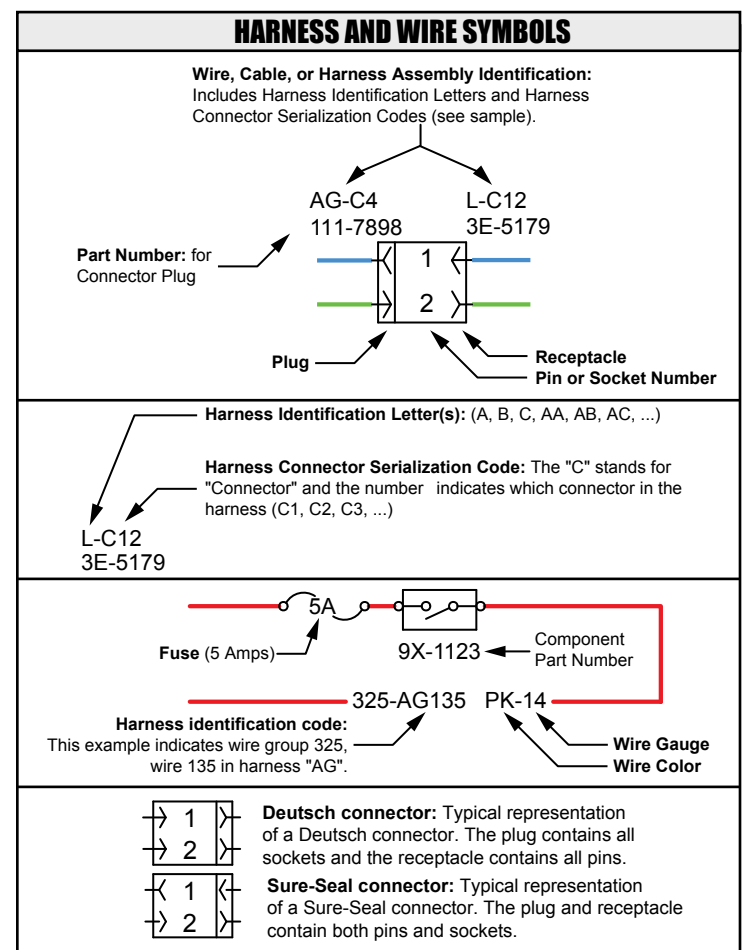
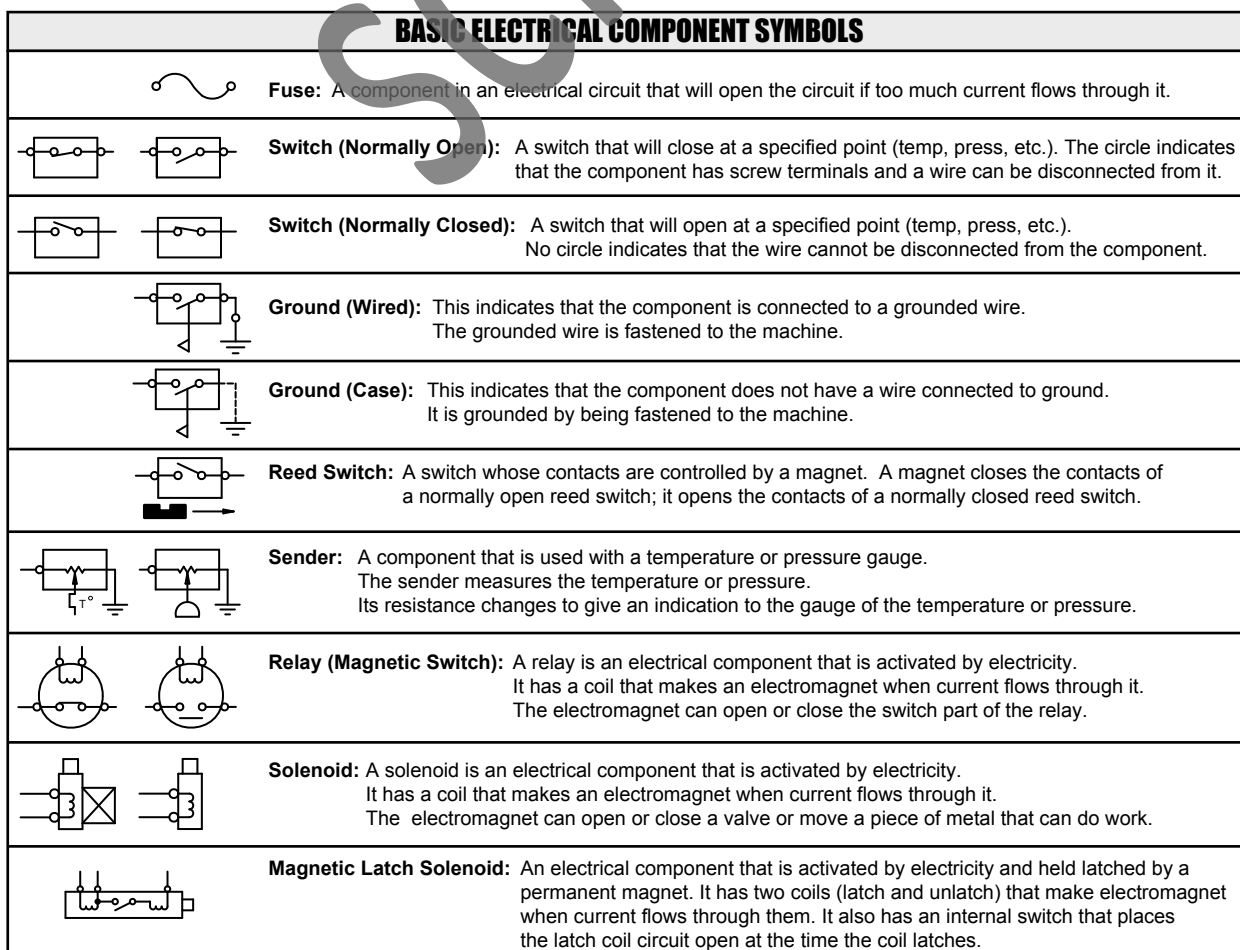
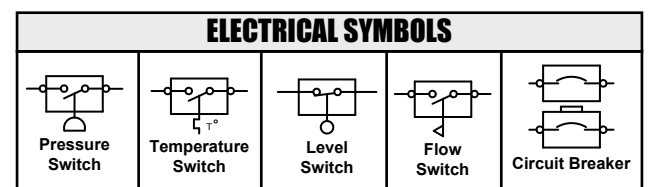
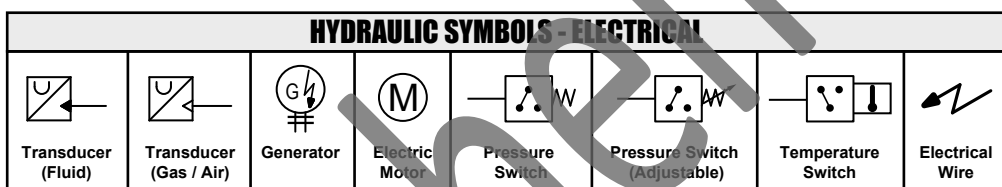
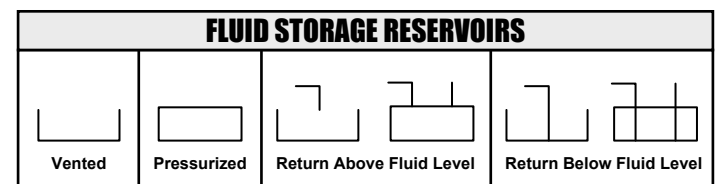
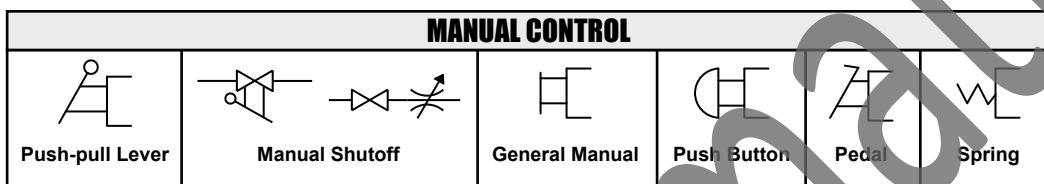
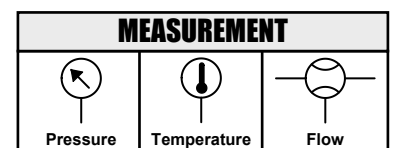
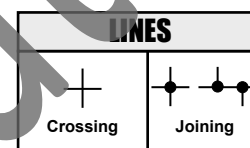
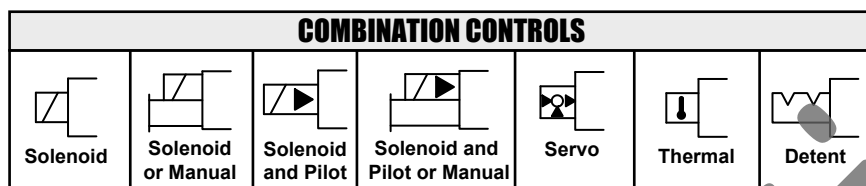
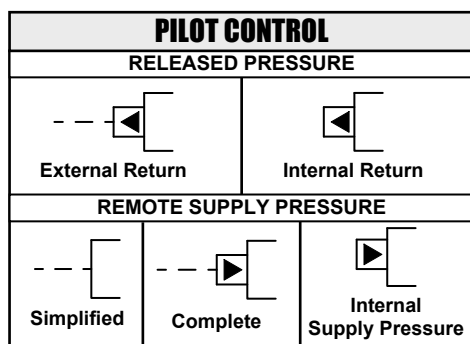
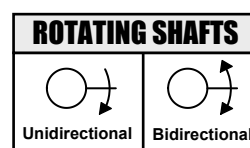
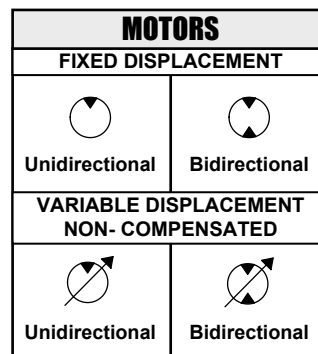
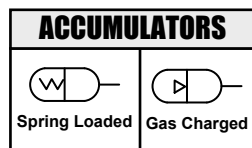
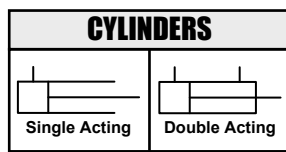
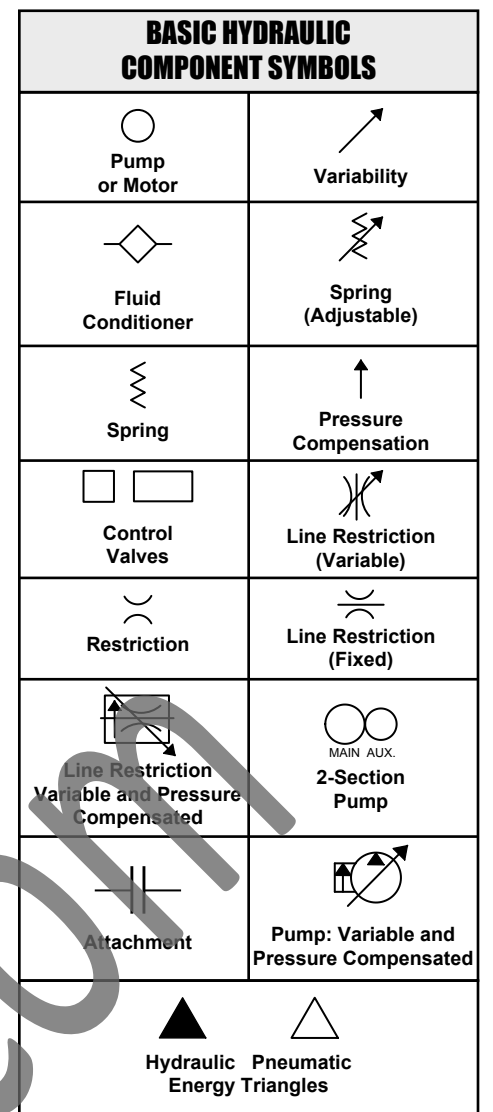
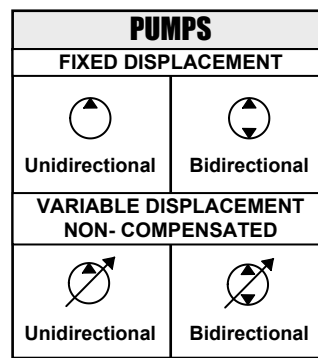
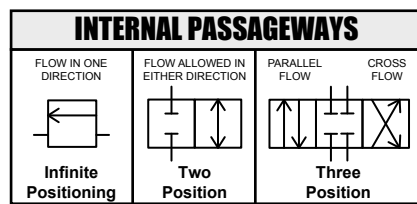
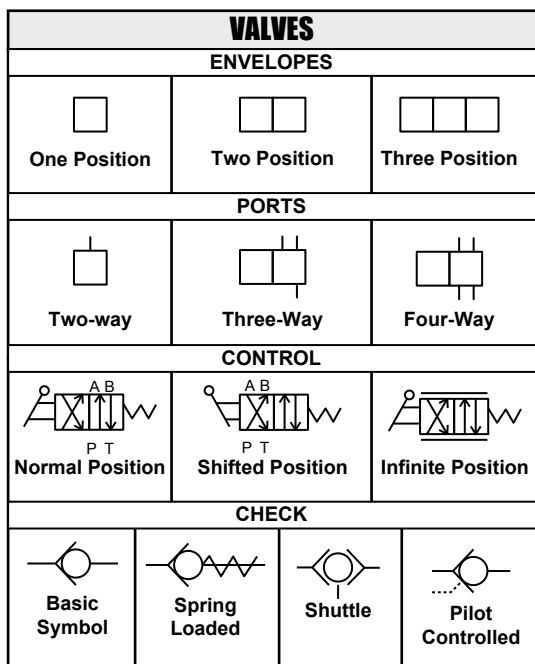
ELECTRICAL SYMBOLS				
Pressure Switch	Temperature Switch	Level Switch	Flow Switch	Circuit Breaker

BASIC HYDRAULIC COMPONENT SYMBOLS	
Pump or Motor	Variability
Fluid Conditioner	Spring (Adjustable)

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



SCHEMATIC SYMBOLS AND DEFINITIONS



Schematic

725C and 730C Articulated Truck Hydraulic System

725C:
LFB1-UP
TFB1-UP

730C:
LFF1-UP
TFF1-UP

COMPONENT TABLE



Component Locations

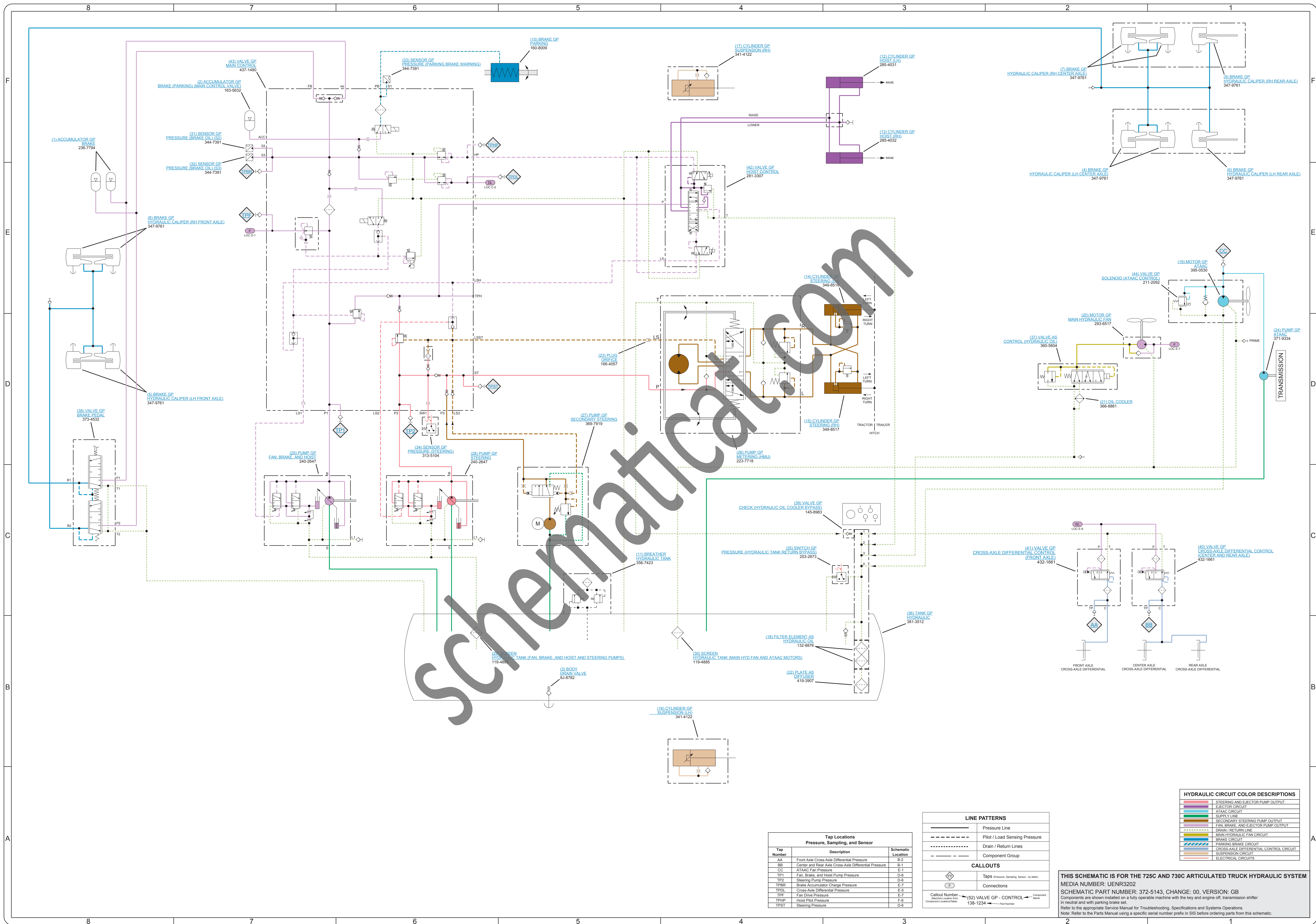
Description	Part Number	Machine Location	Schematic Location	Description	Part Number	Machine Location	Schematic Location
Accumulator GP - Brake	236-7794	1	F-8	Plug - Orifice	166-4057	23	D-5
Accumulator GP - Brake (Parking) (Main Control Valve)	163-5632	2	E-7	Pump GP - ATAAC	371-9334	24	D-1
Body - Drain Valve	8J-8782	3	B-5	Pump GP - Fan, Brake, and Hoist	240-2647	25	C-7
Brake GP - Hydraulic Caliper (LH Center Axle)	347-9761	4	F-2	Pump GP - Metering (HMU)	223-7718	26	D-4
Brake GP - Hydraulic Caliper (LH Front Axle)	347-9761	5	D-8	Pump GP - Secondary Steering	369-7919	27	D-5
Brake GP - Hydraulic Caliper (LH Rear Axle)	347-9761	6	F-1	Pump GP - Steering	240-2647	28	C-6
Brake GP - Hydraulic Caliper (RH Center Axle)	347-9761	7	F-2	Screen - Hydraulic Tank (Fan, Brake, and Hoist and Steering Pumps)	119-4885	29	B-6
Brake GP - Hydraulic Caliper (RH Front Axle)	347-9761	8	E-8	Screen - Hydraulic Tank (Main Hydraulic Fan and ATAAC Motors)	119-4885	30	B-4
Brake GP - Hydraulic Caliper (RH Rear Axle)	347-9761	9	F-1	Sensor GP - Pressure (Brake Oil) (S2)	344-7391	31	F-7
Brake GP - Parking	160-8009	10	F-5	Sensor GP - Pressure (Brake Oil) (S3)	344-7391	32	F-7
Breather - Hydraulic Tank	356-7423	11	C-5	Sensor GP - Pressure (Parking Brake Warning)	344-7391	33	F-6
Cylinder GP - Hoist (LH)	285-4031	12	F-3	Switch AS - Pressure (Steering)	313-5104	34	D-6
Cylinder GP - Hoist (RH)	285-4032	13	F-3	Switch GP - Pressure (Hydraulic Tank Return Bypass)	253-2673	35	C-3
Cylinder GP - Steering (LH)	349-8518	14	E-3	Tank GP - Hydraulic	381-3512	36	B-3
Cylinder GP - Steering (RH)	349-8517	15	D-3	Valve AS - Control (Hydraulic Oil)	360-5604	37	D-2
Cylinder GP - Suspension (LH)	341-4122	16	B-4	Valve GP - Brake Pedal	473-4532	38	D-8
Cylinder GP - Suspension (RH)	341-4122	17	F-4	Valve GP - Check (Hydraulic Oil Cooler Bypass)	145-8983	39	C-3
Filter Element AS - Hydraulic Oil	132-8876	18	B-3	Valve GP - Cross-Axle Differential Control (Center and Rear Axle)	432-1661	40	C-1
Motor GP - ATAAC	395-0530	19	E-1	Valve GP - Cross-Axle Differential Control (Front Axle)	432-1661	41	C-2
Motor GP - Main Hydraulic Fan	293-6517	20	D-2	Valve GP - Hoist Control	281-3307	42	E-4
Oil Cooler	366-8881	21	D-2	Valve GP - Main Control	437-1480	43	F-7
Plate AS - Diffuser	419-3907	22	B-3	Valve GP - Solenoid (ATAAC Control)	211-2092	44	E-1

SchematicCat.com

Tap Locations Pressure, Sampling, and Sensor

Tap Number	Description	Schematic Location
<u>AA</u>	Front Axle Cross-Axle Differential Pressure	<u>B-2</u>
<u>BB</u>	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>
<u>TPDL</u>	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>

SchematicCat.com



SchematicCatalog.com

Tap Locations
Pressure, Sampling, and Sensor

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

LINE PATTERNS

	Pressure Line
	Pilot / Load Sensing Pressure
	Drain / Return Lines
	Component Group

CALLOUTS

	Taps (Pressure, Sampling, Sensor, by system)
	Connections

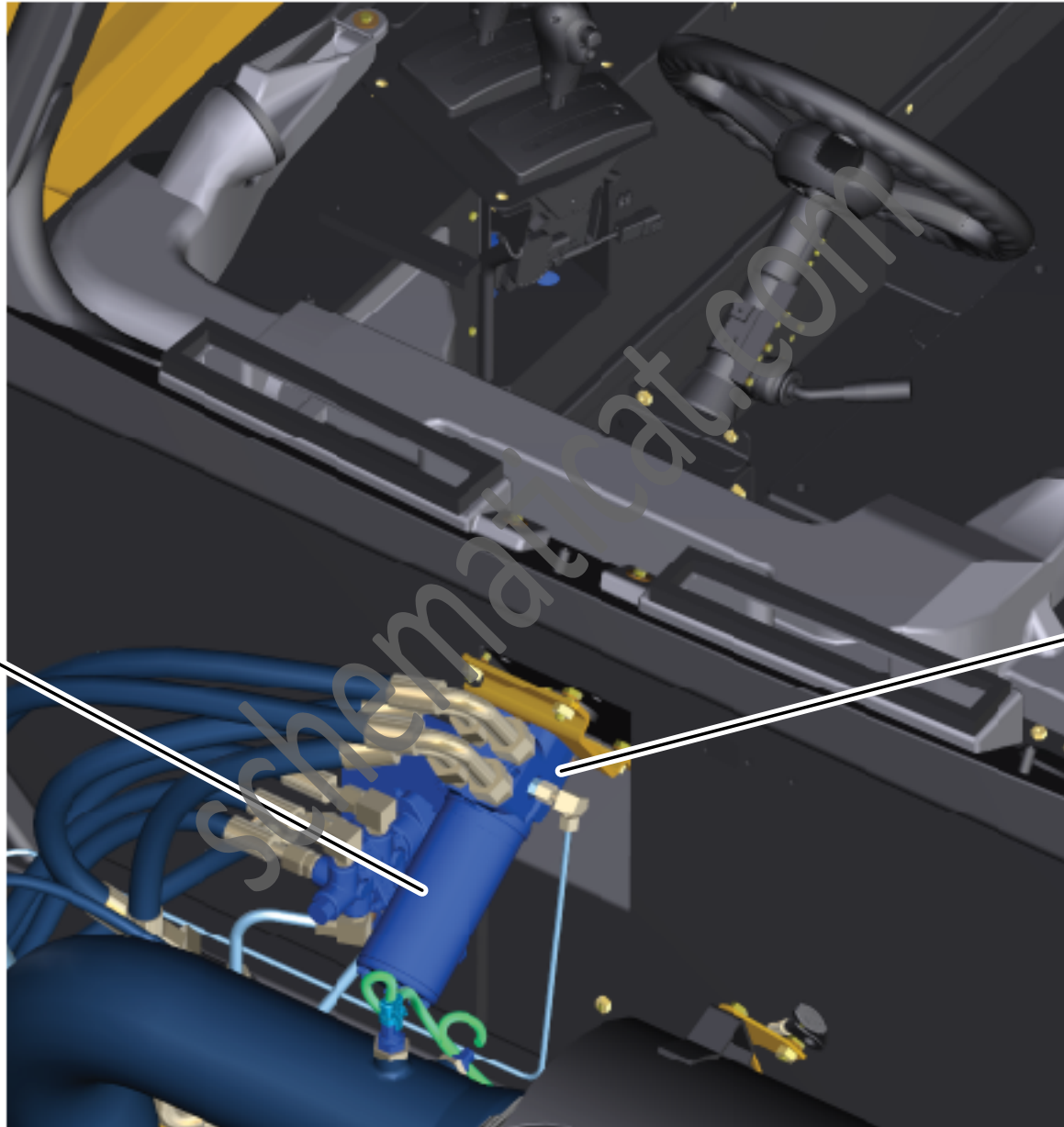
Callout Number: (Optional Location from Component Location) → (S2) VALVE GP - CONTROL → Component Name
138-1234 → Part Number

HYDRAULIC CIRCUIT COLOR DESCRIPTIONS

	STEERING AND EJECTOR PUMP OUTPUT
	EJECTOR CIRCUIT
	ATAAC CIRCUIT
	SUPPLY LINE
	SECONDARY STEERING PUMP OUTPUT
	FAN, BRAKE, AND EJECTOR PUMP OUTPUT
	DRAIN / RETURN LINE
	MAIN HYDRAULIC FAN CIRCUIT
	BRAKE CIRCUIT
	CROSS-AXLE DIFFERENTIAL CIRCUIT
	SUSPENSION CIRCUIT
	ELECTRICAL CIRCUITS

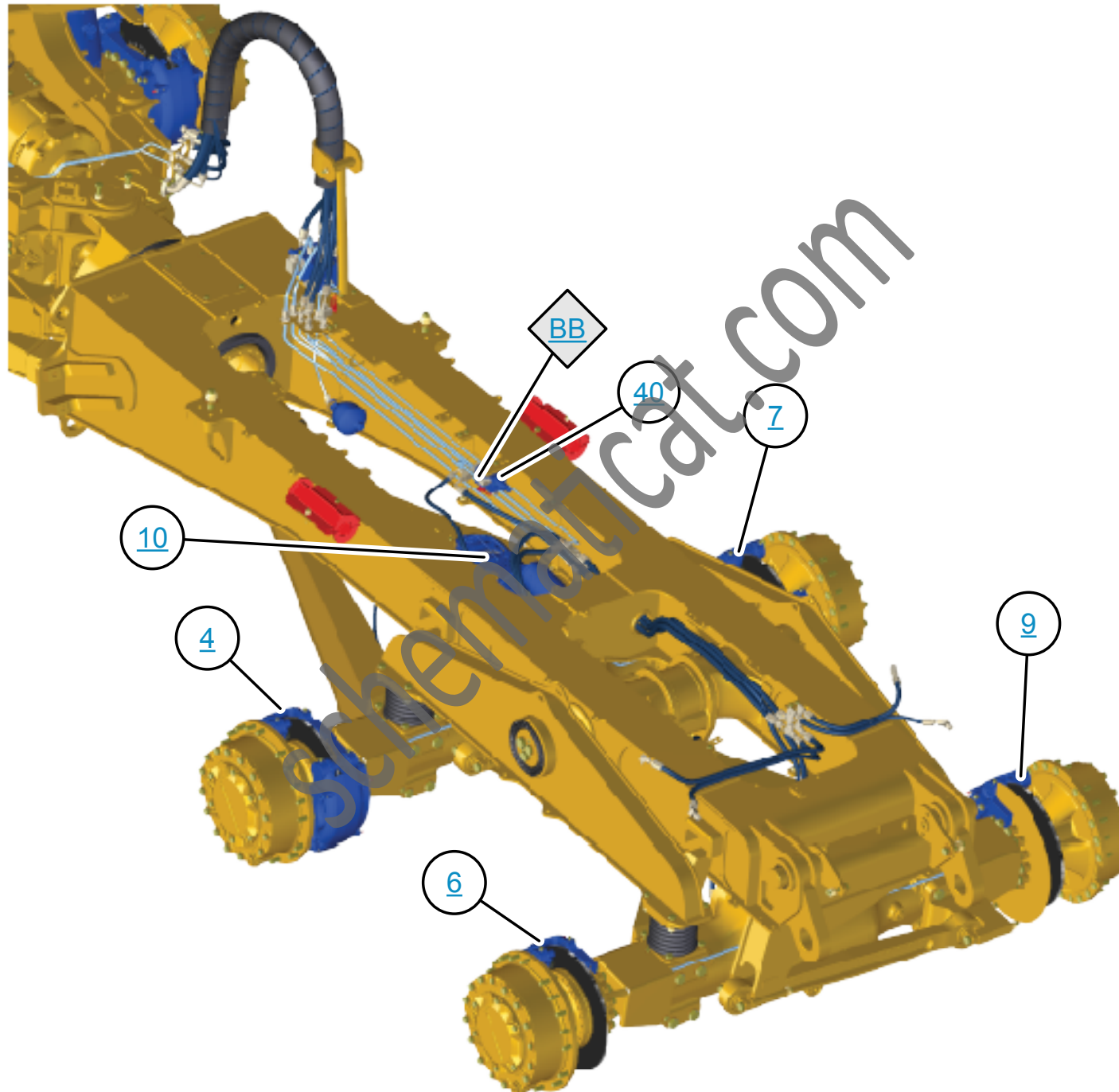
THIS SCHEMATIC IS FOR THE 725C AND 730C ARTICULATED TRUCK HYDRAULIC SYSTEM
 MEDIA NUMBER: UENR3202
 SCHEMATIC PART NUMBER: 372-5143, CHANGE: 00, VERSION: GB
 Components are shown installed on a fully operable machine with the key and engine off, transmission shifter in neutral and with parking brake 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.

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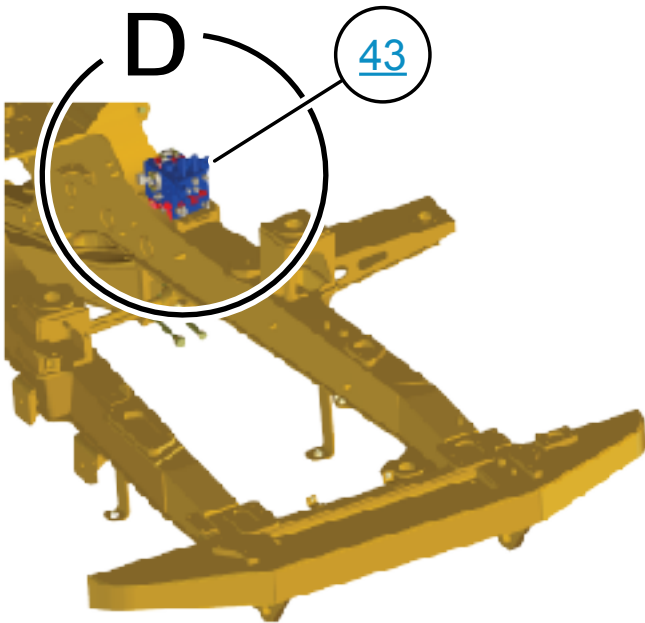


23

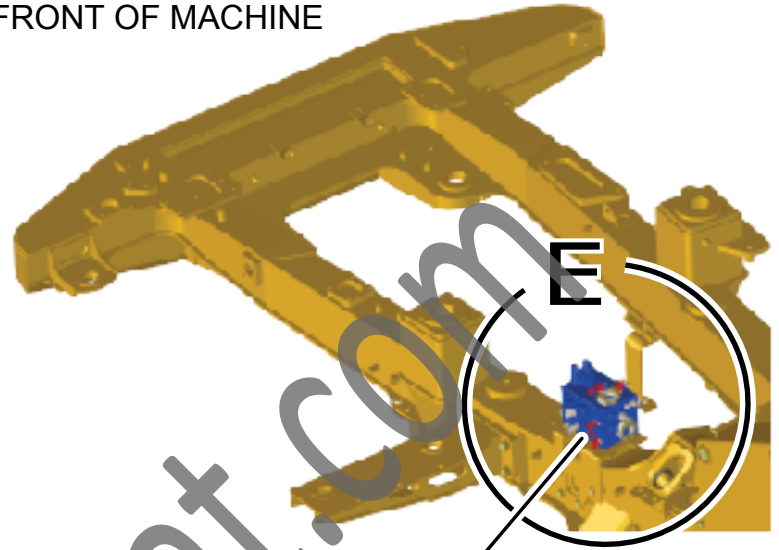
REAR FRAME COMPONENTS



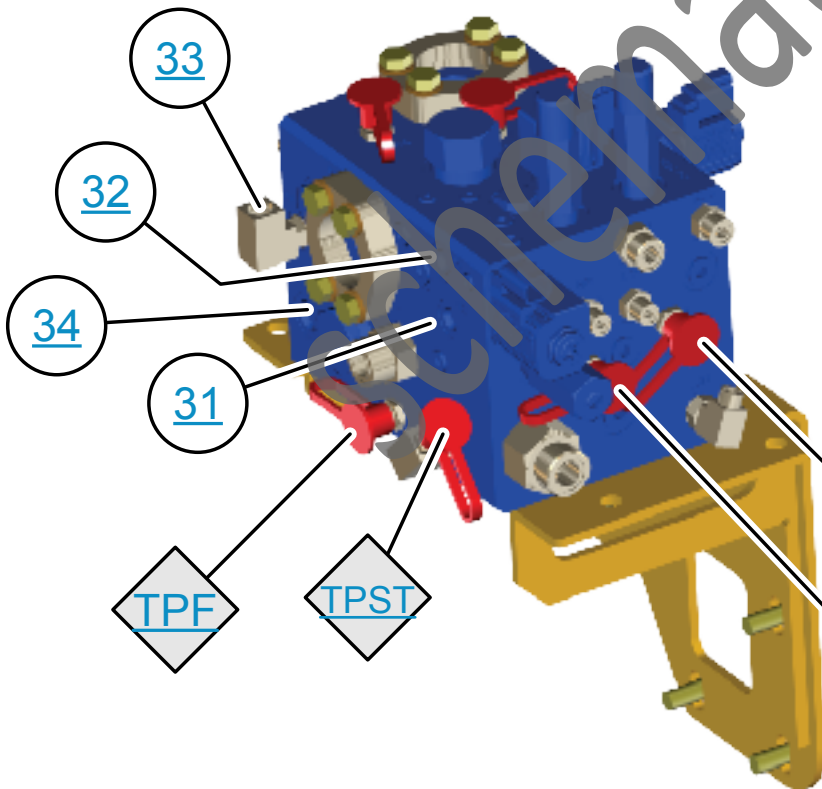
MAIN CONTROL VALVE



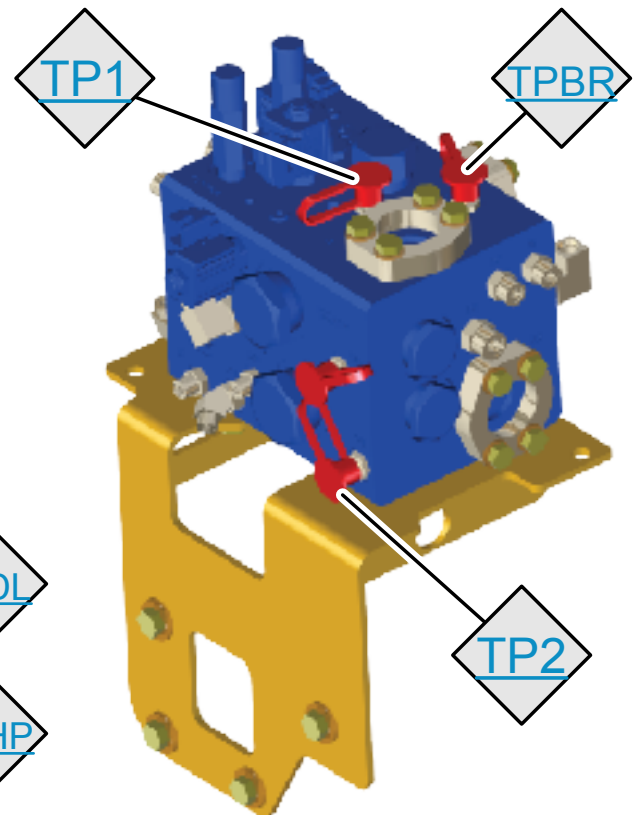
FRONT OF MACHINE



FRONT OF MACHINE

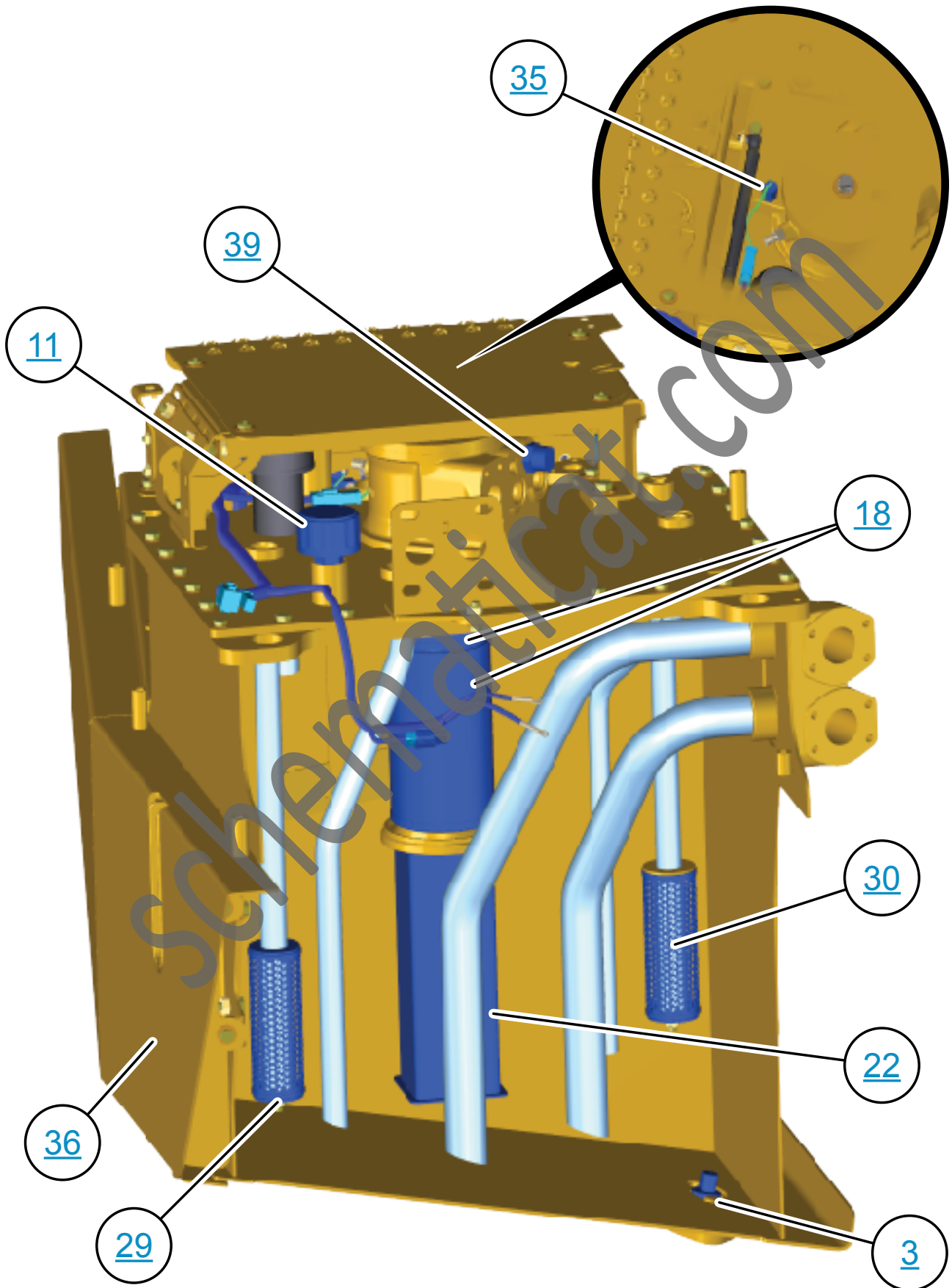


VIEW OF AREA "D"

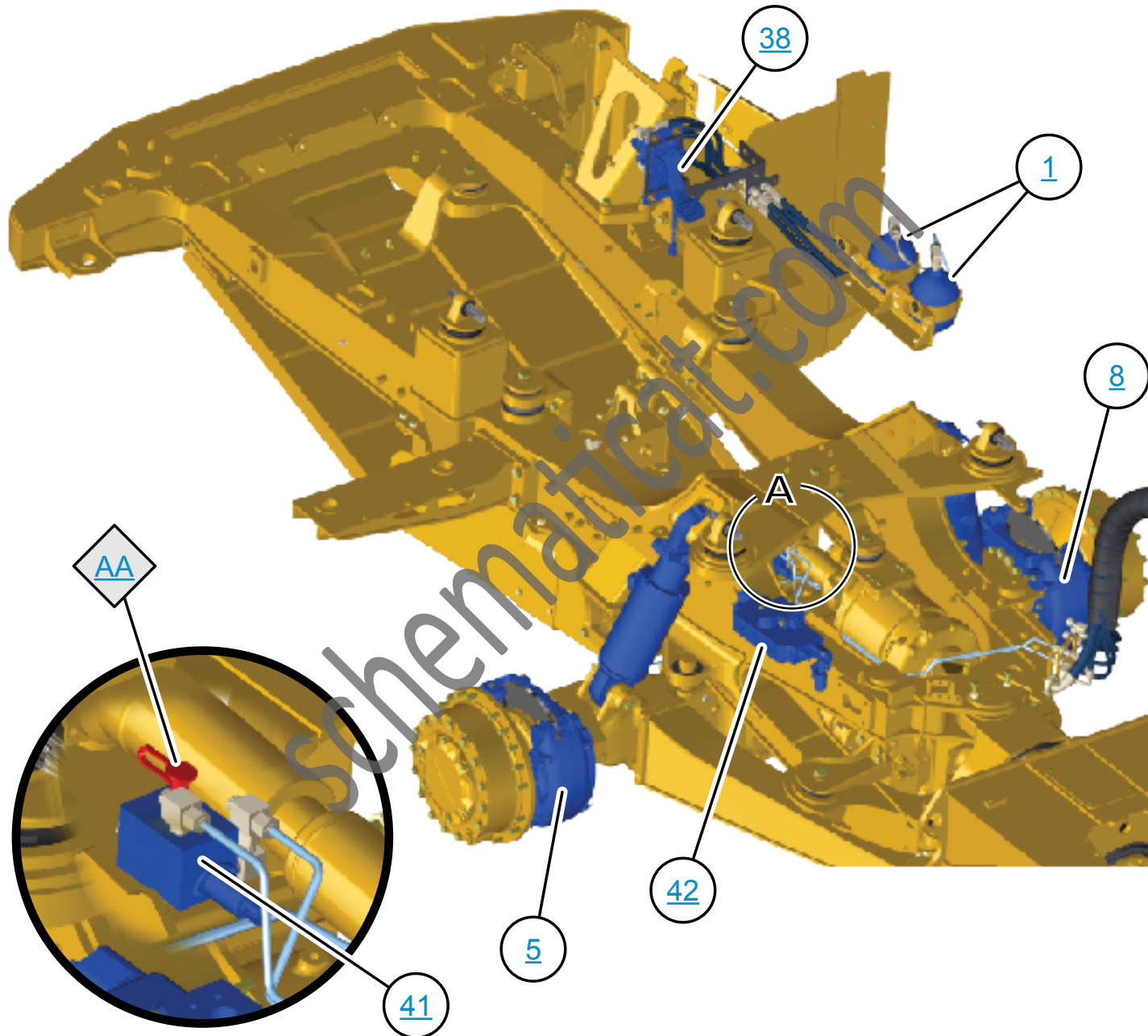


VIEW OF AREA "E"

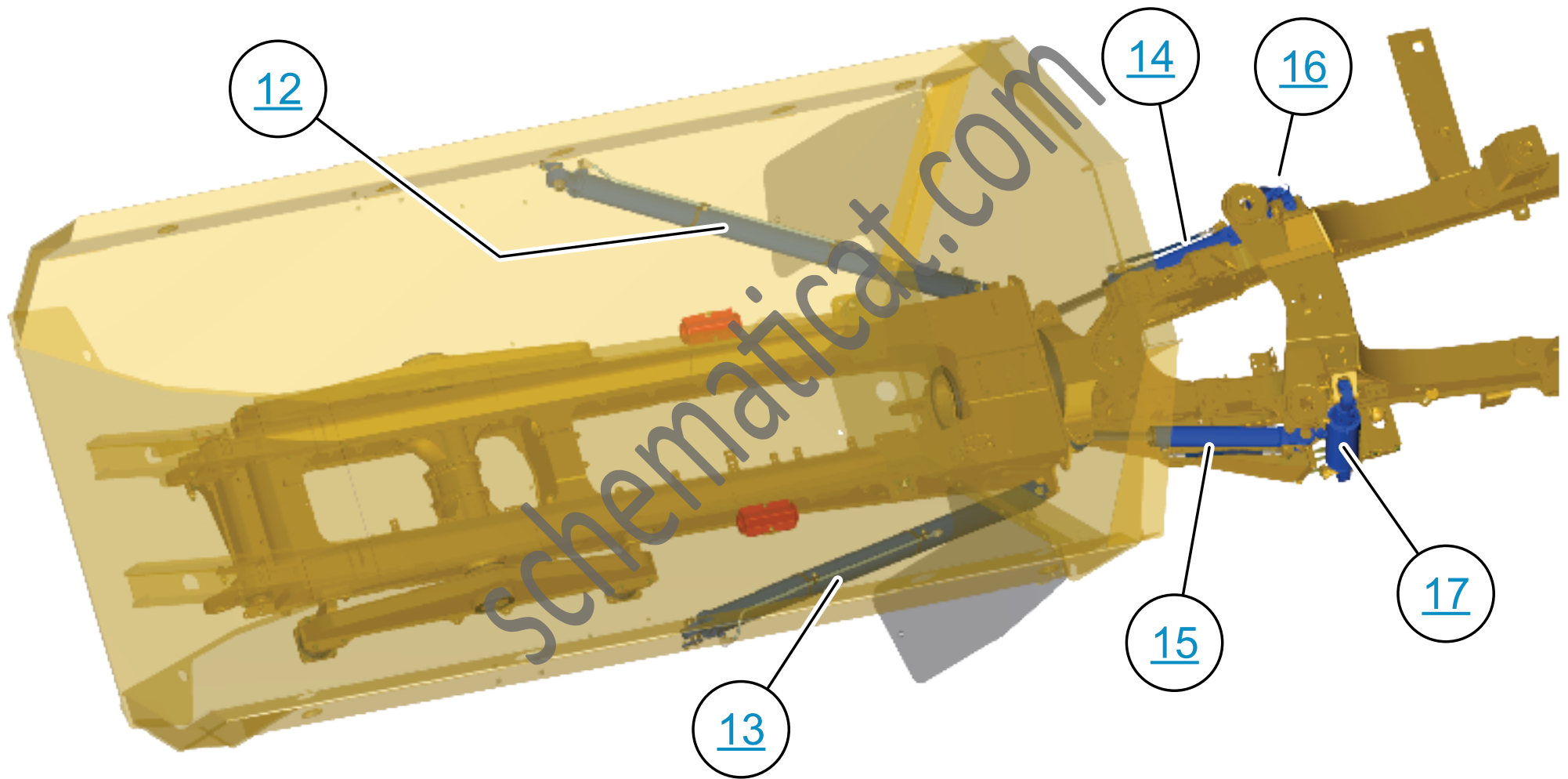
HYDRAULIC TANK



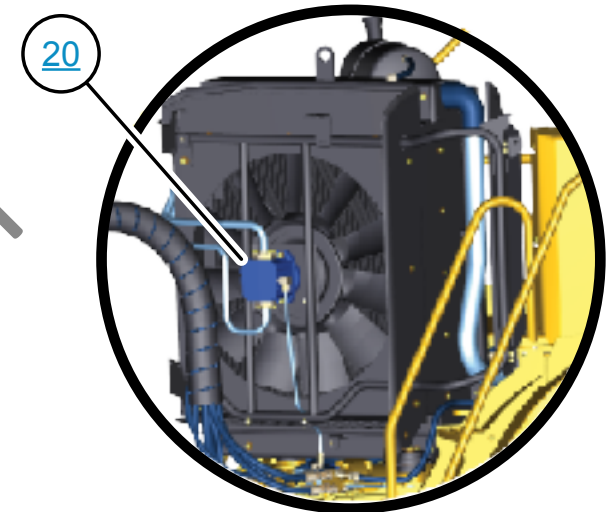
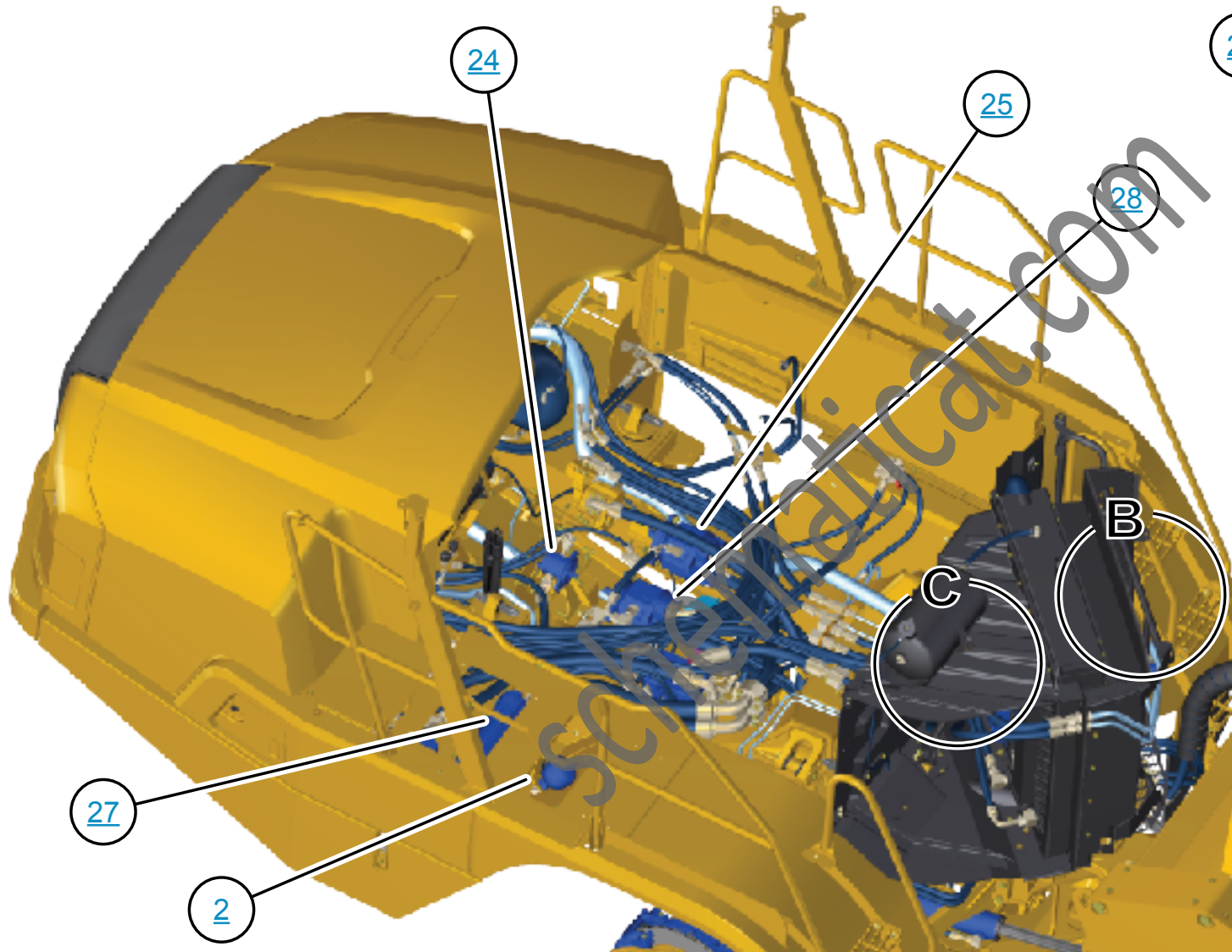
FRONT FRAME COMPONENTS



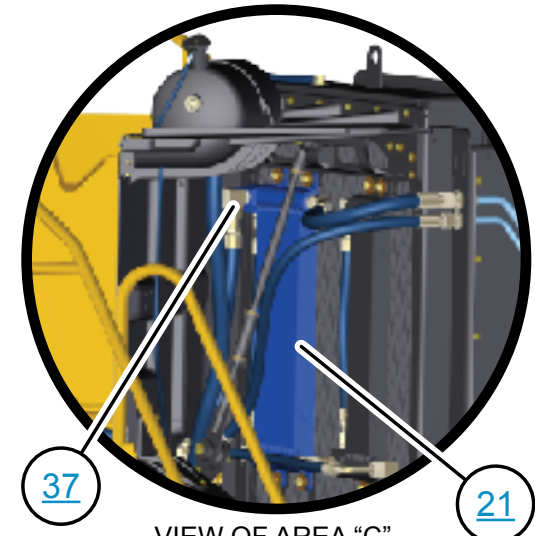
VIEW OF AREA "A"
(ROTATED FOR CLARITY)



BELOW CAB COMPONENTS



VIEW OF AREA "B"
(ROTATED FOR CLARITY)



VIEW OF AREA "C"
(ROTATED FOR CLARITY)

