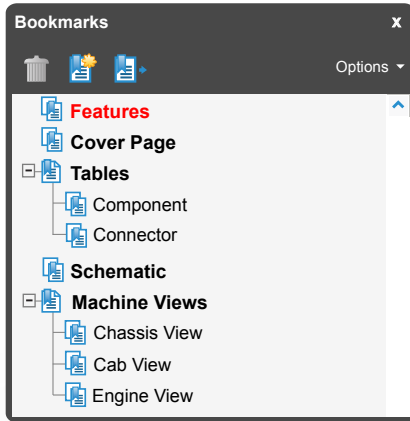


INTERACTIVE SCHEMATIC

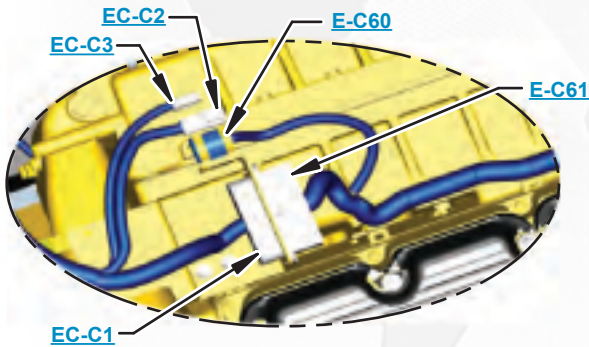


The Bookmarks panel will allow you to quickly navigate to points of interest.

****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”

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



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			
Flow in One Direction	Flow Allowed in Either Direction	Parallel Flow	Cross Flow
Infinite Positioning	Two Position	Three Position	

PUMPS	
FIXED DISPLACEMENT	
Unidirectional	Bidirectional
VARIABLE DISPLACEMENT NON-COMPENSATED	
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	2-Section Pump
Attachment	Pump: Variable and Pressure Compensated
Hydraulic Energy Triangles	Pneumatic Energy Triangles

CYLINDERS	
Single Acting	Double Acting

ACCUMULATORS	
Spring Loaded	Gas Charged

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

ROTATING SHAFTS	
Unidirectional	Bidirectional

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.

HARNES 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, ...)	
Harness identification code: This example indicates wire group 325, wire 135 in harness "AG".	
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

D10T2 Track-Type Tractor Power Train System

RAB1-UP
JJW1-UP

COMPONENT TABLE

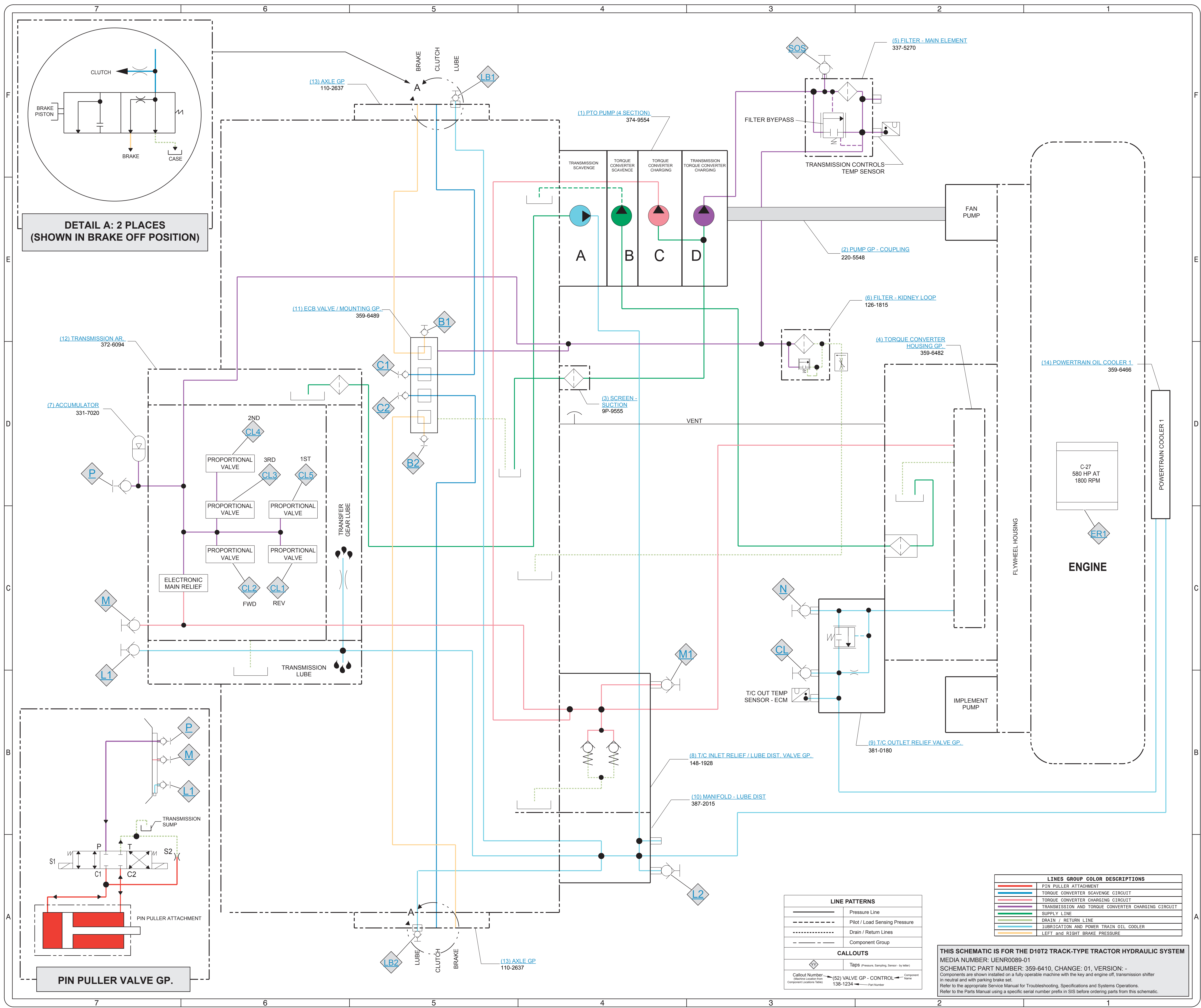


Component Locations			
Description	Part Number	Machine Location	Schematic Location
PTO PUMP (4 SECTION)	374-9554	1	F-4
PUMP GP - COUPLING	220-5548	2	E-3
SCREEN - SUCTION	9P-9555	3	D-4
TORQUE CONVERTER / HOUSING GP.	359-6482	4	D-2
FILTER - MAIN ELEMENT	337-5270	5	F-2
FILTER - KIDNEY LOOP	126-1815	6	E-3
ACCUMULATOR	331-7020	7	D-7
T/C INLET RELIEF / LUBE DIST. VALVE GP.	148-1928	8	B-4
T/C OUTLET RELIEF VALVE GP.	381-0180	9	B-2
MANIFOLD - LUBE DIST	387-2015	10	B-4
ECB VALVE / MOUNTING GP.	359-6489	11	E-5
TRANSMISSION AR.	372-6094	12	D-7
AXLE GP	110-2637	13	F-5, A-5
POWERTRAIN OIL COOLER 1	359-6466	14	D-1

TAP LOCATIONS Pressure, Sampling and Sensor

Description	Tap Number	Schematic Location
ENGINE SPEED	*ER1	D-1
TRANSMISSION GEAR		
POWERTRAIN OIL TYPE		
BRAKE PRESSURE - LH	B1	E-5
BRAKE PRESSURE - RH	B2	D-5
CLUTCH PRESSURE - LH	C1	D-5
CLUTCH PRESSURE - RH	C2	D-5
TRANS. MAIN RELIEF	P	D-7
T/C SUPPLY PRESSURE	M	C-7
T/C SUPPLY PRESSURE	M1	B-4
T/C OUTLET PRESSURE	N	C-3
TRANSMISSION LUBE PRESSURE	L1	C-7
MANIFOLD LUBE PRESSURE	L2	A-4
LH BRAKE LUBE PRESSURE	LB1	F-5
RH BRAKE LUBE PRESSURE	LB2	A-5
TRANS. 1 CLUTCH PRESSURE (REV)	*CL1	C-6
TRANS. 2 CLUTCH PRESSURE (FWD)	*CL2	C-6
TRANS. 3 CLUTCH PRESSURE (3RD)	*CL3	D-6
TRANS. 4 CLUTCH PRESSURE (2ND)	*CL4	D-6
TRANS. 5 CLUTCH PRESSURE (1ST)	*CL5	D-6
COOLER LUBE PRESSURE	CL	B-3

* = These test points are internal to the transmission and not shown on the machines views.



DETAIL A: 2 PLACES (SHOWN IN BRAKE OFF POSITION)

PIN PULLER VALVE GP.

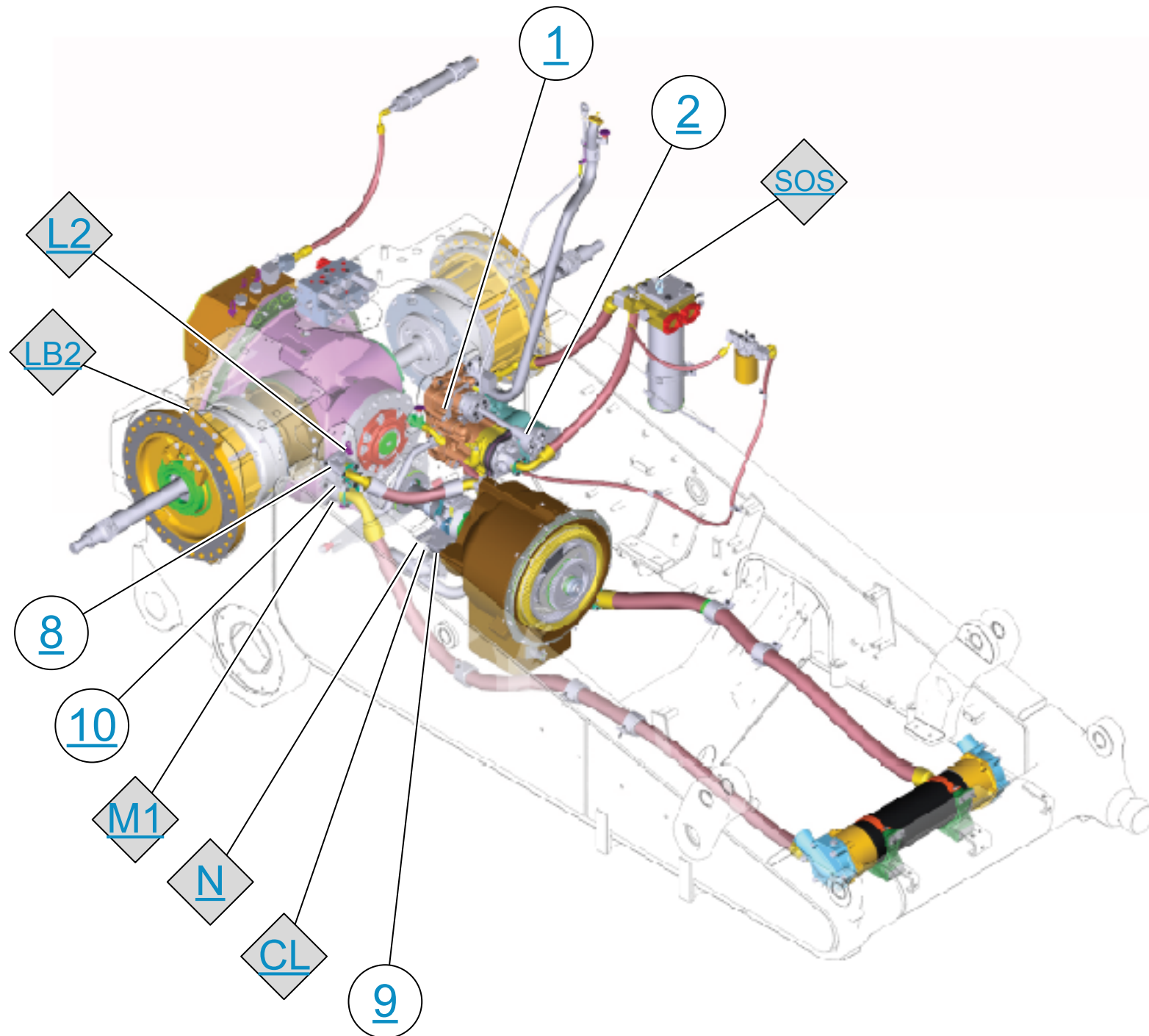
LINE PATTERNS	
	Pressure Line
	Pilot / Load Sensing Pressure
	Drain / Return Lines
	Component Group

CALLOUTS	
	Taps (Pressure, Sampling, Sensor - by letter)
	Callout Number (Machine Location from Component Location - letter)
	(52) VALVE GP - CONTROL
	138-1234 - Part Number

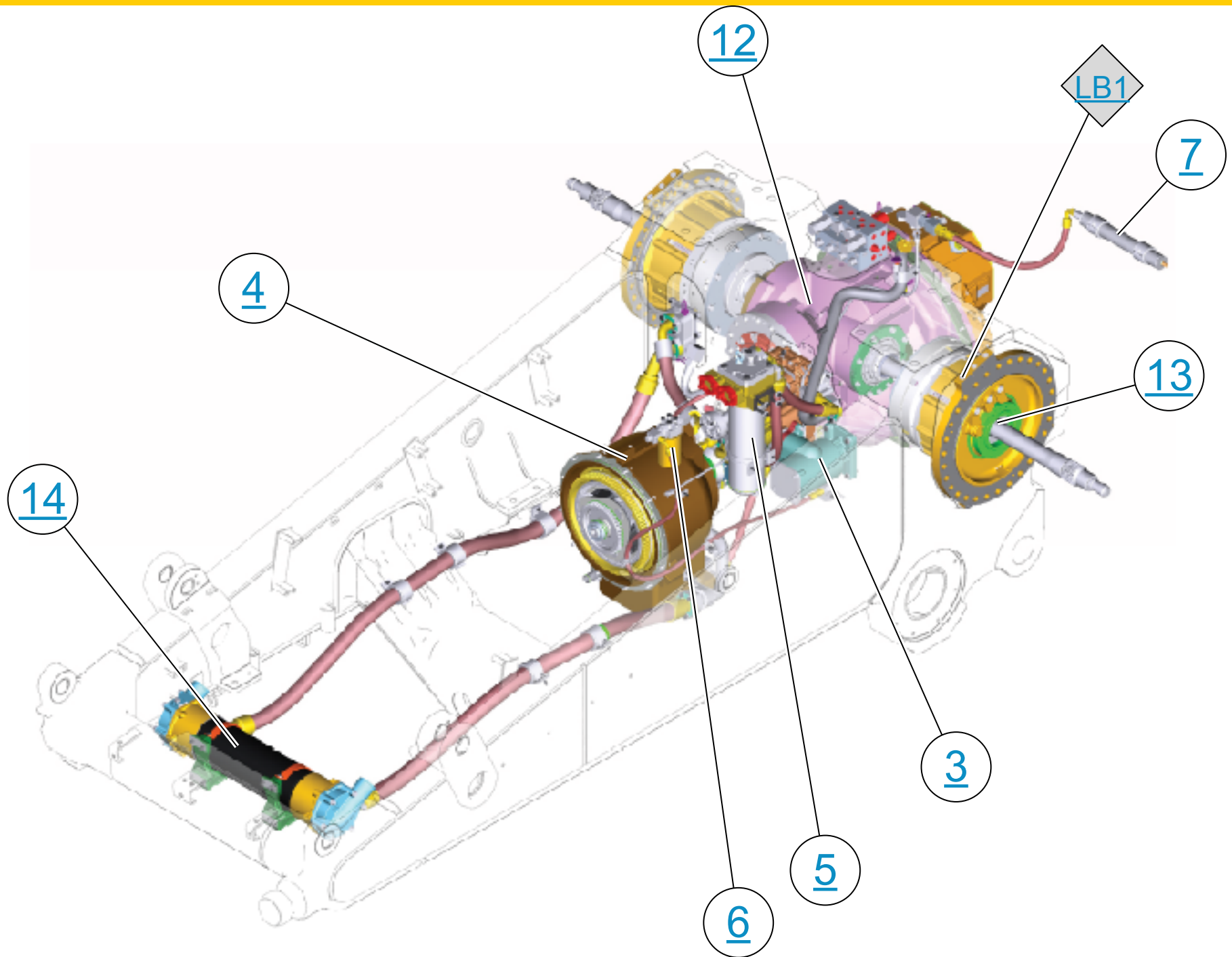
LINES GROUP COLOR DESCRIPTIONS	
Red	PIN PULLER ATTACHMENT
Blue	TORQUE CONVERTER SCAVENGE CIRCUIT
Green	TORQUE CONVERTER CHARGING CIRCUIT
Purple	TRANSMISSION AND TORQUE CONVERTER CHARGING CIRCUIT
Yellow	SUPPLY LINE
Light Blue	DRAIN / RETURN LINE
Dark Blue	LUBRICATION AND POWER TRAIN OIL COOLER
Orange	LEFT and RIGHT BRAKE PRESSURE

THIS SCHEMATIC IS FOR THE D10T2 TRACK-TYPE TRACTOR HYDRAULIC SYSTEM
 MEDIA NUMBER: UENR0089-01
 SCHEMATIC PART NUMBER: 359-6410, CHANGE: 01, VERSION: -
 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.
 Refer to the Parts Manual using a specific serial number prefix in SIS before ordering parts from this schematic.

RIGHT SIDE VIEW



LEFT SIDE VIEW



FRONT VIEW

