MAXXUM® 115 / MAXXUM® 115 Multicontroller / MAXXUM® CVT 115
MAXXUM® 125 / MAXXUM® 125 Multicontroller / MAXXUM® CVT 125
MAXXUM® 135 / MAXXUM® 135 Multicontroller / MAXXUM® CVT 135
MAXXUM® 145 / MAXXUM® 145 Multicontroller / MAXXUM® CVT 145
MAXXUM® 150 / MAXXUM® 150 Multicontroller

Tier 4B (final)
Tractor

SERVICE MANUAL

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October 2015

CASE IH AGRICULTURE

MidWestTech | Case Maxxum 115, 125, 135, 145, 150 Multicontroller CVT Tier 4B Tractor Service Manual | Publication 47938724
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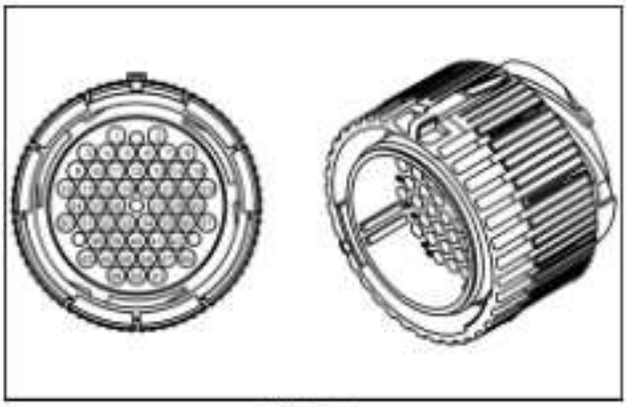
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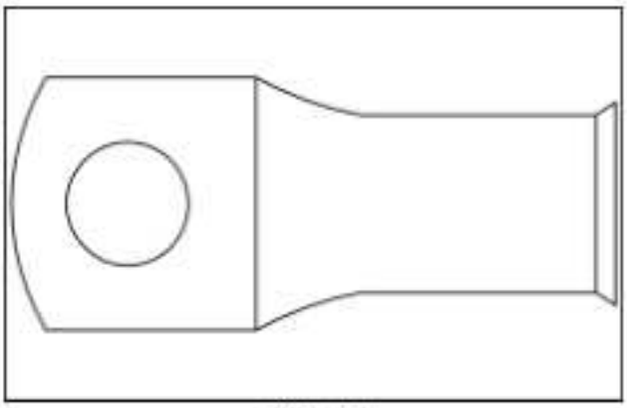
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LESS Electro Hydraulic Remote (EHR) valves

MAXXUM CVT 115, MAXXUM CVT 125, MAXXUM CVT 135, MAXXUM CVT 145

CONNECTOR X-020 - On harness 47725739			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME
1	TR-029 (GN)	From X-020 to **X-265**	
2	TR-1013D (BR)	From X-020 to **X-443**	
3	TR-1014E (BK)	From X-020 to **X-443**	
4	TR-810A (RD)	From X-020 to **X-443**	
5	TR-349 (GN)	From X-020 to **X-443**	
6	TR-350 (YE)	From X-020 to **X-443**	
7	TR-7412A (YE)	From X-020 to **X-520**	
8	TR-7525E (GN)	From X-020 to SP-155	
9	TR-7160 (RD)	From X-020 to **X-318**	
10	TR-7985 (PK)	From X-020 to **X-915**	
11	TR-2055A (WH)	From X-020 to **X-299**	
12	TR-2095B (GN)	From X-020 to SP-159	
13	-	-	
14	-	-	
15	-	-	
16	TR-3240 (OR)	From X-020 to **X-259**	
17	-	-	
18	TR-3260 (OR)	From X-020 to **X-259**	
19	TR-8045 (WH)	From X-020 to **X-915**	
20	TR-8010A (TN)	From X-020 to **X-255**	
21	TR-8000A (BR)	From X-020 to **X-255**	
22	TR-8000X (BR)	From X-020 to **X-254**	
23	TR-3280 (OR)	From X-020 to **X-259**	
24	TR-8010 (TN)	From X-020 to **X-254**	
25	TR-060A (BK/WH)	From X-020 to SP-153	
26	TR-8020 (TN)	From X-020 to SP-151	
27	TR-8060D (BL)	From X-020 to SP-8060D	
28	TR-3500 (WH)	From X-020 to **X-303**	
29	TR-3285 (TN)	From X-020 to **X-259**	
30	TR-5515 (GY)	From X-020 to SP-160	
31	TR-5500L (RD)	From X-020 to **X-304**	
32	TR-5510L (BL)	From X-020 to **X-304**	
33	-	-	
34	-	-	
35	-	-	
36	-	-	

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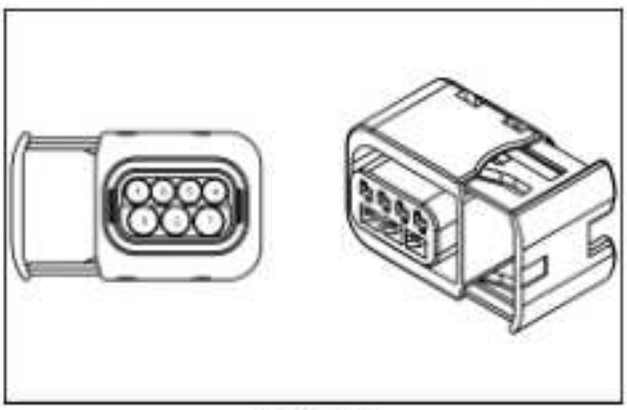


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CONNECTOR X-897 - Engine harness to FPT harness

MAXXUM CVT 115, MAXXUM CVT 125, MAXXUM CVT 135, MAXXUM CVT 145

CONNECTOR X-897 - On harness 47789525			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	-	-	
2	EN-057HI (BK)	From X-897 to EN-SP-057	
3	EN-664 (BR)	From X-897 to EN-SP-664A	
4	-	-	
5	EN-590 (BL)	From X-897 to EN-SP-590	
6	EN-591 (WH)	From X-897 to EN-SP-591	
7	-	-	



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MAXXUM 115 Multicontroller, MAXXUM 125 Multicontroller, MAXXUM 135 Multicontroller, MAXXUM 145 Multicontroller
MAXXUM 115, MAXXUM 125, MAXXUM 135, MAXXUM 145

CONNECTOR X-897 - On harness 47783131			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	-	-	
2	EN-057HI (BK)	From X-897 to EN-SP-057	
3	EN-664 (BR)	From X-897 to EN-SP-664A	
4	-	-	
5	EN-590 (BL)	From X-897 to EN-SP-590	
6	EN-591 (WH)	From X-897 to EN-SP-591	
7	-	-	

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2381-Parklock - bus off

MAXXUM® CVT 115	NA
MAXXUM® CVT 125	NA
MAXXUM® CVT 135	NA
MAXXUM® CVT 145	NA

Control Module : UCM

NOTE: *When the cause of the error code has been rectified, clear the error code and test the system for normal operation.*

NOTE: *To electronically release and disable the Electronic Park Lock (EPL) when carrying out maintenance on the system, use the H1 calibrations menu in the XA module. Select* ***(SC)*** *and perform the accelerometer stroke calibration procedure but stop the process when* ***(M)*** *is displayed and turn the ignition switch OFF. For further information, refer to* ***Electronic park lock actuator/controller - H1 - Calibration procedures (55.031)****.*

If electronic release is not possible, remove the EPL cover and use the special tool supplied in the cab to manually disengage the EPL.

Cause:
The fault triggering condition is 'always'.

Possible failure modes:

1. Faulty connector
2. Faulty wiring harness
3. Faulty EPL assembly

Solution:

1. Make sure the machine is parked on a level surface and chock the front wheels using suitable wheel stops.

   A. Continue to Step **2**.
2. Check for other error codes being displayed.

   A. If any other error code is being displayed, continue to these tests.

   B. If no other error code is displayed, continue to Step **3**.
3. Before proceeding clear the error code using either the on board HH menu or approved diagnostic equipment. Turn the ignition switch OFF, wait for 5 seconds and then turn the ignition switch ON. Operate the system and check for the error code.

   A. If the error code is not indicated, check that the system is operating correctly.

   B. If the error code is indicated, continue to Step **4**.
4. Check the EPL connector **X-745**. Make sure the connector is connected, not damaged, the pins are in the correct position and that the fit is tight.

   A. If a fault is indicated, repair or replace as required.

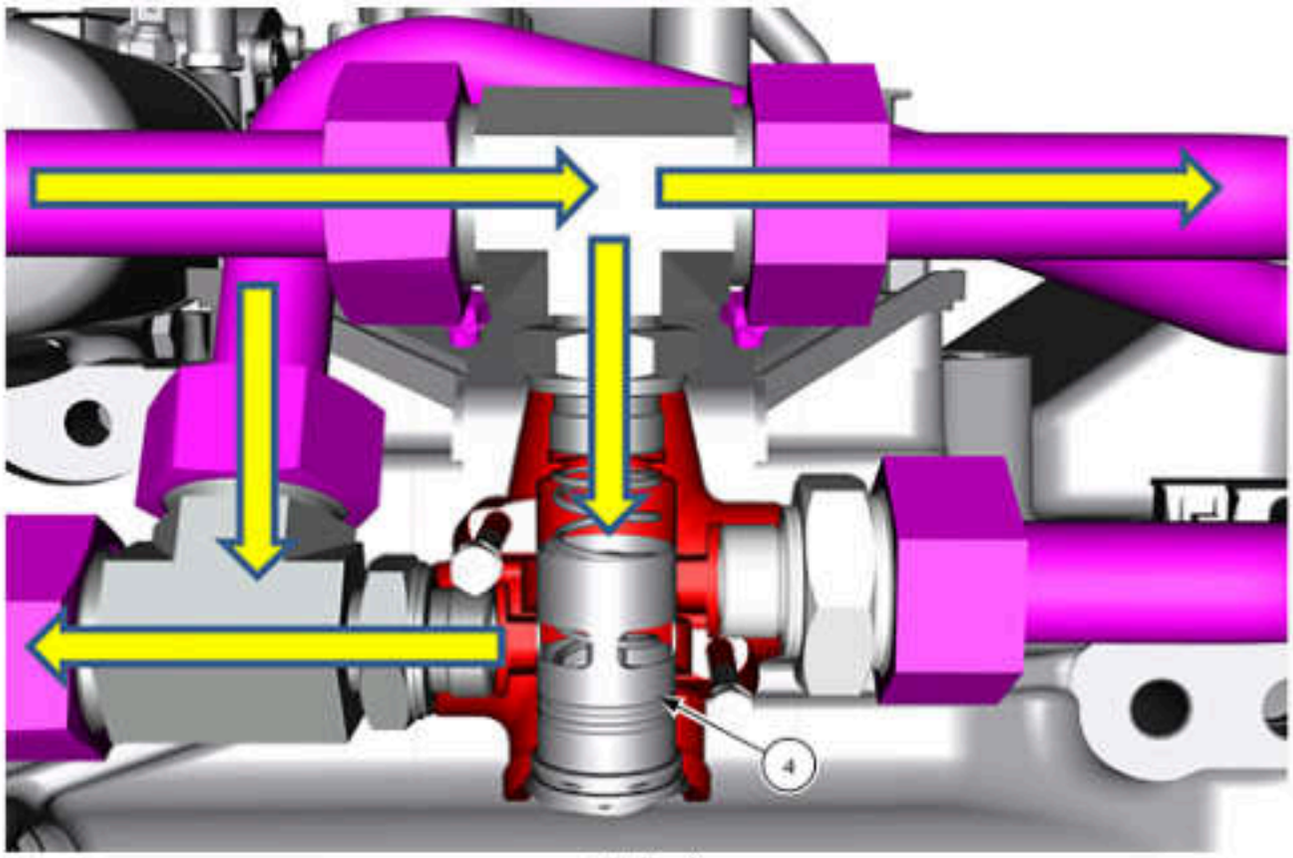
   B. If the connector is okay, continue to Step **5**.
5. Check for **12 V**.
   Turn the ignition switch OFF. Disconnect connector **X-745**. Measure the voltage between connector **X-745 pin A1**, wire CM-3031 (BR) and ground.

   A. If approximately **12 V** is not indicated, repair or replace the wiring harness as required.

   B. If approximately **12 V** is indicated, continue to Step **6**.
6. Check for an open ground circuit.
   Check between connector **X-745 pin A8**, wire CM-57RK (BK) and ground.

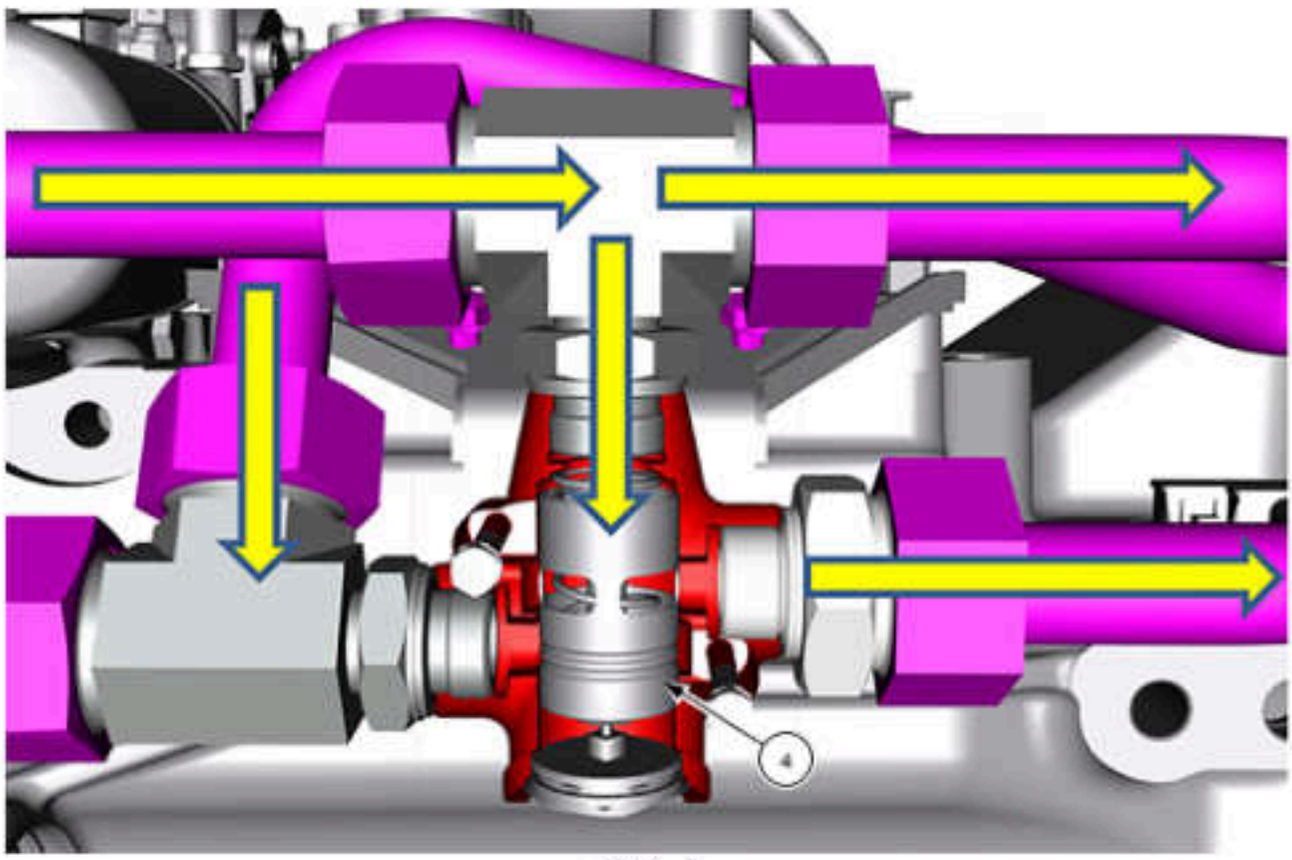
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Oil temperature regulator valve



SS14M450 3

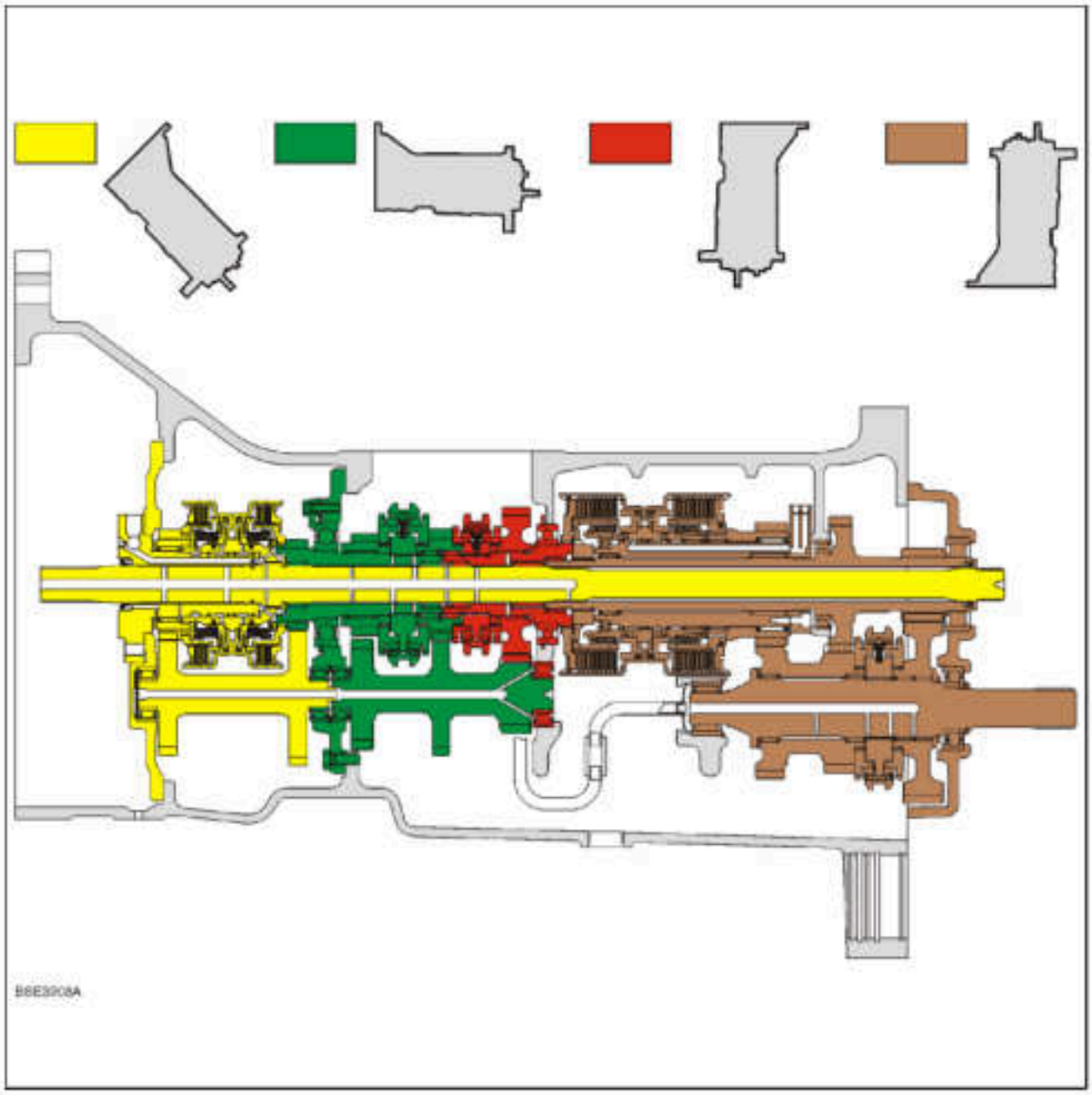
Position of the oil temperature regulator valve at an oil temperature below 45 °C (113 °F)



SS14M451 4

Position of the oil temperature regulator valve at an oil temperature higher than 60 °C (140 °F)

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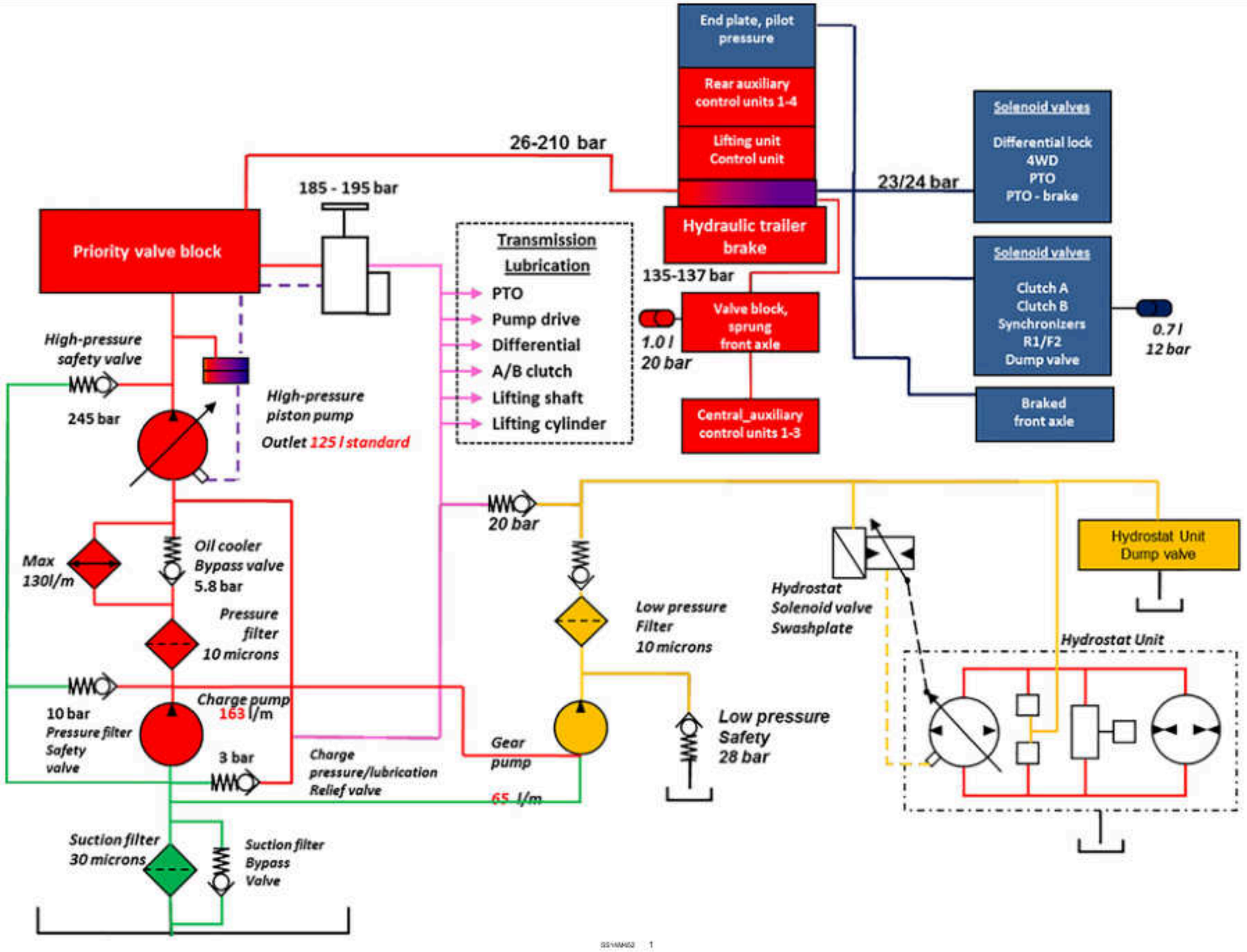
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Yellow- Front Section
Brown- Rear Section
Green/Red- Middle Section

2. The transmission must be removed from the tractor before commencing overhaul. Should any single component be identified as requiring removal refer to the relevant area within the overhaul procedure and consider if replacement of this single item can be achieved without complete disassembly.

NOTICE: *Cleanliness during overhaul is important. Ensure during the rebuilding stage that all contaminant is eliminated, the transmission uses hydraulically actuated components and that cleanliness and the removal of any contaminant is paramount to a successful overhaul. Pay particular attention to the control valve when this is removed during this overhaul stage.*

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