SERVICE MANUAL

T6.125 / T6.145 / T6.155 / T6.165 / T6.175 / T6.180
T6.145 AutoCommand™ / T6.155 AutoCommand™
T6.165 AutoCommand™ / T6.175 AutoCommand™

Tier 4B (final)

Tractor

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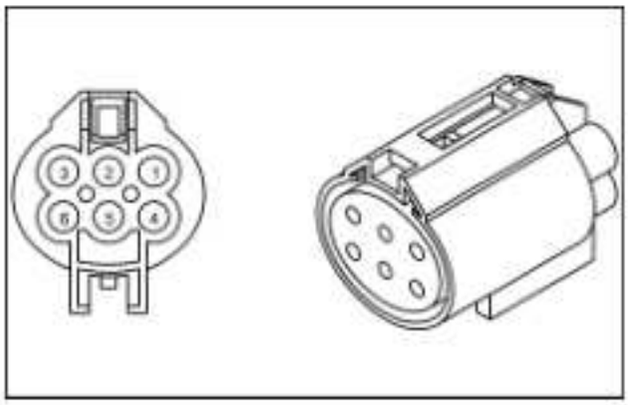
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Drive shaft - General specification

Front Sleeve Positioning Adjust Ring Shims	**1 mm; 1.2 mm; 1.5 mm; 1.8 mm; 2 mm; 2.2 mm; 2.5 mm; 3 mm; 3.3 mm; 3.7 mm; 4 mm; 4.3 mm**
Front Sleeve End-Play	**1.2 - 1.7 mm (0.047 - 0.067 in)**

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CONNECTOR X-443 - On harness 87749128			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME
6	TS-350 (YE)	From X-443 to **X-253**	

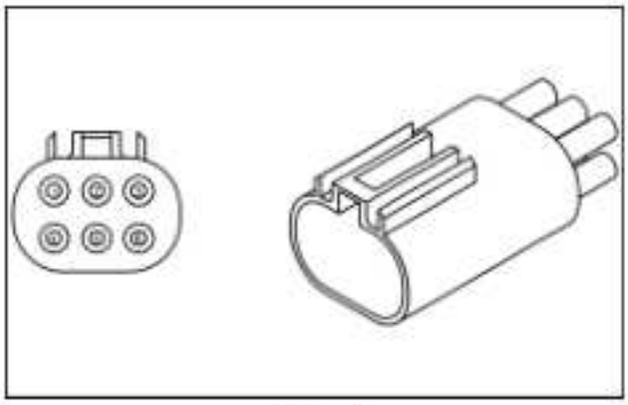


82028841 3

LESS Electro Hydraulic Remote (EHR) valves

T6.125, T6.145, T6.155, T6.165, T6.175, T6.180 – Basic armrest

CONNECTOR X-443 - On harness 47725726			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME
1	TR-1013D (RD)	From X-443 to **X-020**	
2	TR-810A (GN)	From X-443 to **X-020**	
3	TR-1014E (RD)	From X-443 to **X-020**	
4	TR-349 (GN)	From X-443 to **X-020**	
5	TR-57EG (BK)	From X-443 to SP-152	
6	TR-350 (YE)	From X-443 to **X-020**	



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WITH Electro Hydraulic Remote (EHR) valves

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CONNECTOR X-443 - On harness 47746441			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME
1	TR-1013D (RD)	From X-443 to **X-020**	
2	TR-810A (GN)	From X-443 to **X-020**	
3	TR-1014E (RD)	From X-443 to **X-020**	
4	TR-349 (GN)	From X-443 to **X-020**	
5	TR-57EG (BK)	From X-443 to SP-152	
6	TR-350 (YE)	From X-443 to **X-020**	

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12162-Fault on EPL temperature reading

Control Module : EPL

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.

NOTE: *When clearing the stored memory in H8 in the XA module or installing a new EPL, make sure the correct EPL orientation is selected in H3 in the XA module, channel 3. Refer to* ***Electronic park lock actuator/controller - H3 - Configurations and options (55.031)****.*

Cause:
The fault triggering condition is 'always'.

Possible failure modes:

1. 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. 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 **3**.

3. Using H8 in the XA module, clear the EPL memory, refer to **Electronic park lock actuator/controller - H8 - Clear stored calibration information (EEPROM) (55.031)**. Using H3 in the XA module, re-enable the EPL, refer to **Electronic park lock actuator/controller - H3 - Configurations and options (55.031)**. Re-calibrate the EPL, refer to **Electronic park lock actuator/controller - H1 - Calibration procedures (55.031)**. Operate the system and check for the error code.

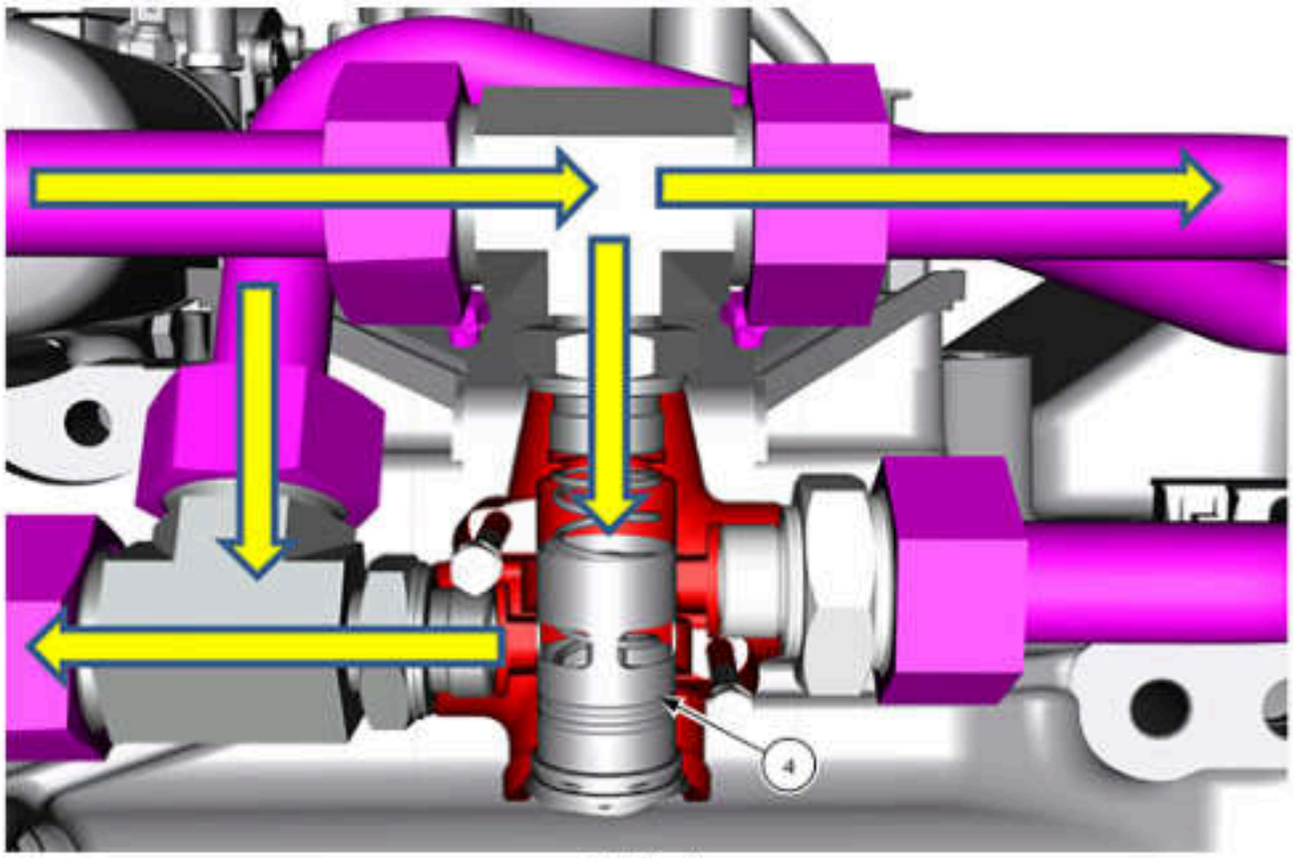
   A. If the error code is not indicated, check that the system is operating correctly.

   B. If the error code is indicated or it was not possible to calibrate the EPL, remove and replace the EPL assembly. Refer to **Electronic park lock actuator/controller - Remove (55.031)** and **Electronic park lock actuator/controller - Install (55.031)**. Calibrate the EPL, refer to **Electronic park lock actuator/controller - H1 - Calibration procedures (55.031)**.

Wiring harnesses - Electrical schematic sheet 43 – ELECTRONIC PARKING BRAKE (55.100.DP-C.20.E.43)

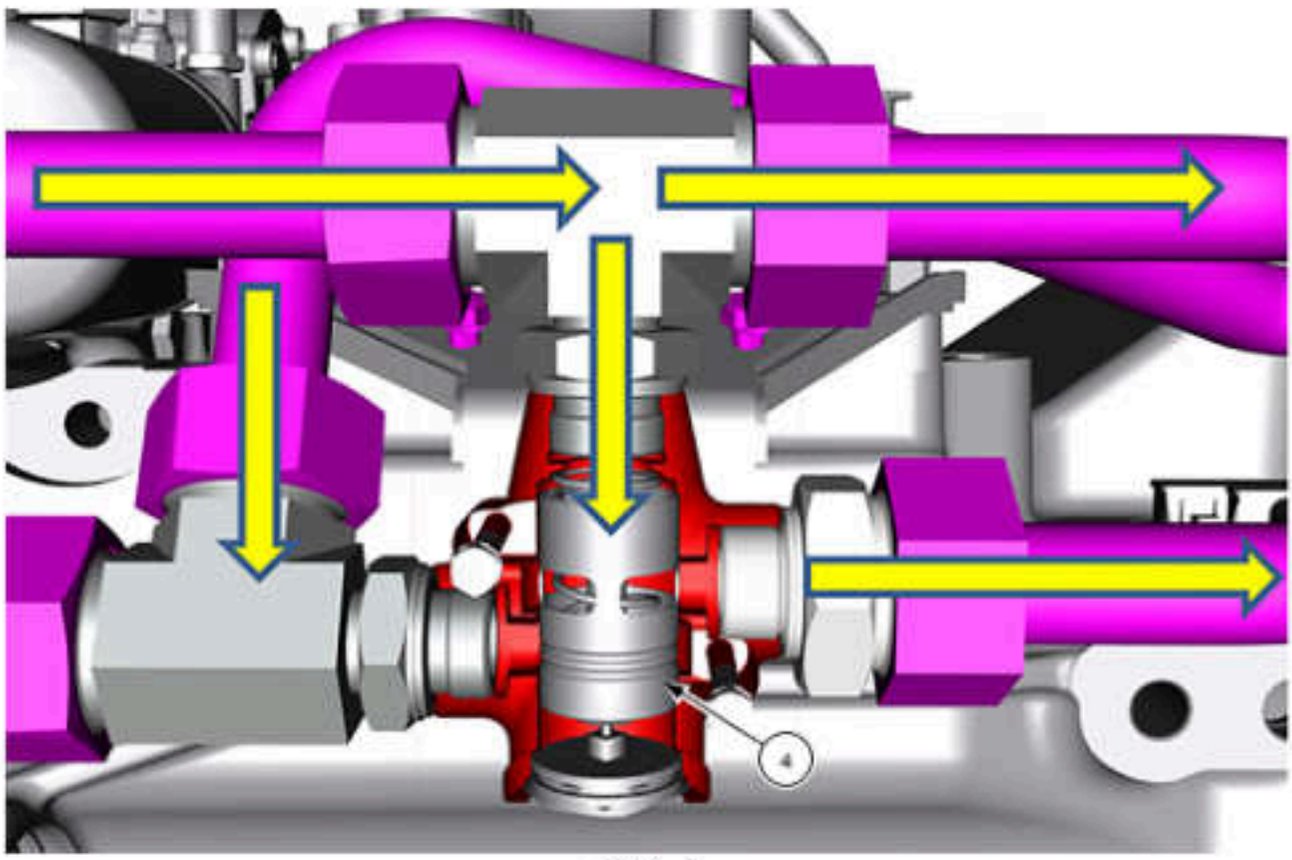
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Oil temperature regulator valve



S014M450 3

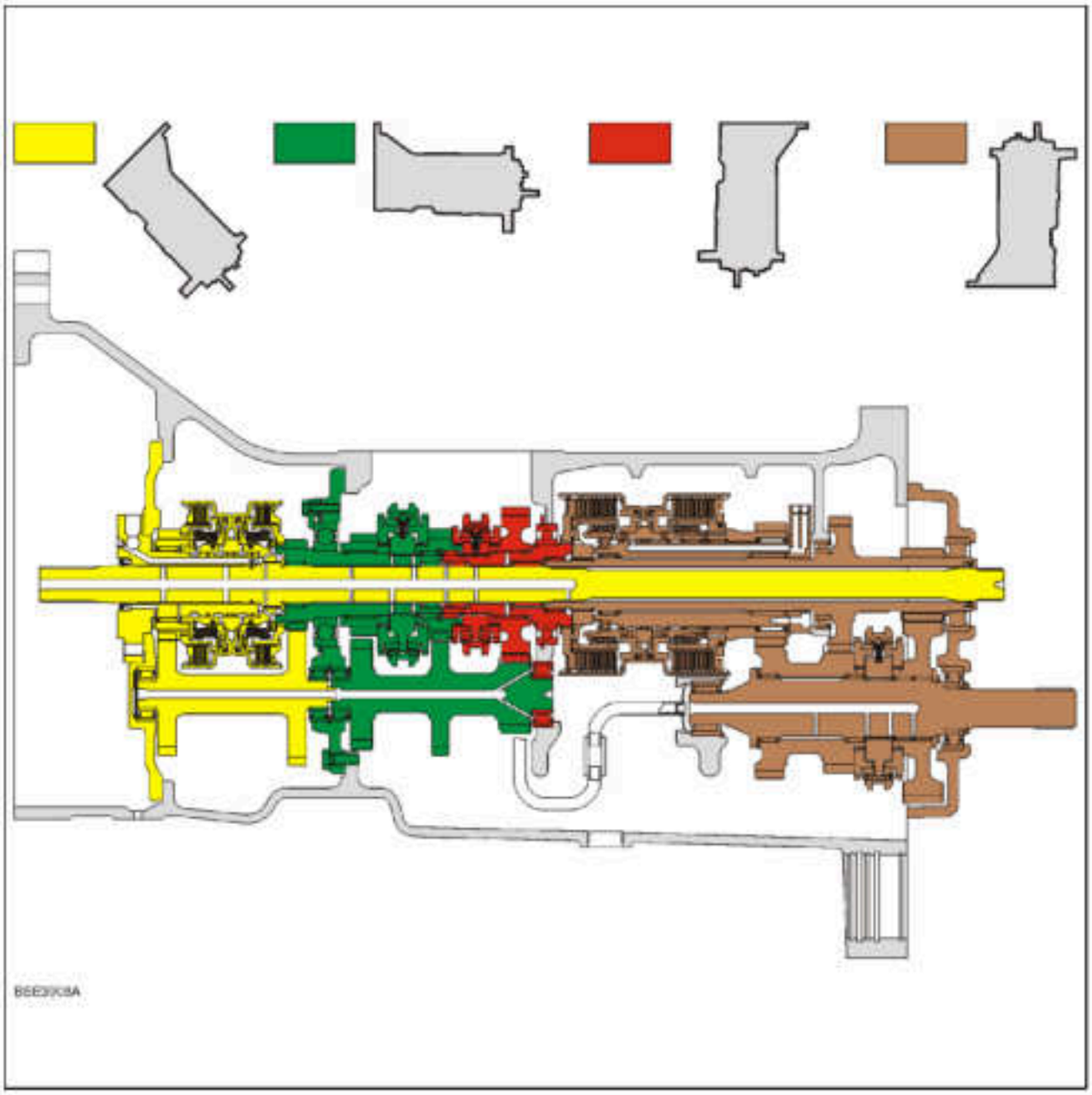
Position of the oil temperature regulator valve at an oil temperature below 45 °C (113 °F)



S014M451 4

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

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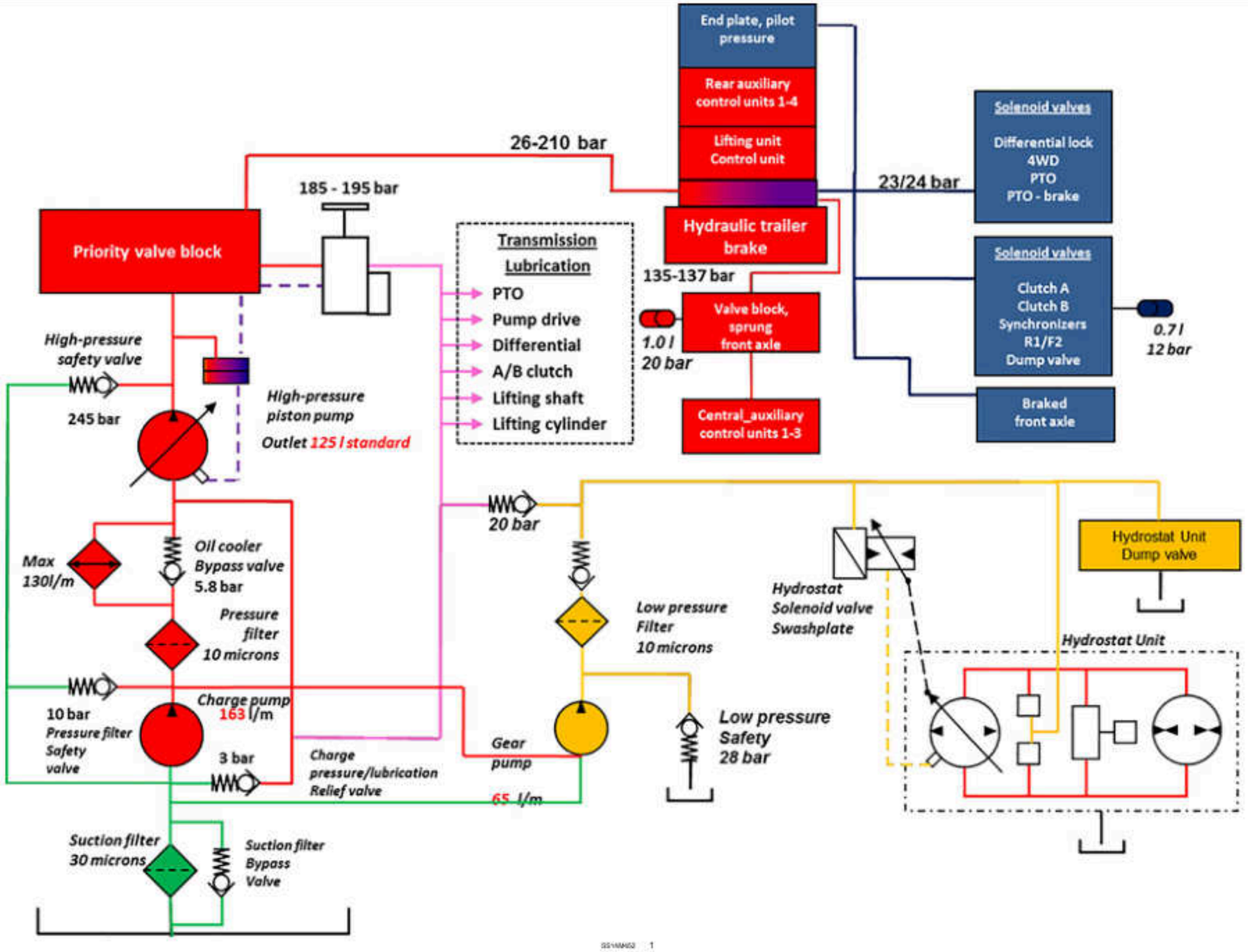
Yellow- Front Section
Brown- Rear Section

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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