SERVICE MANUAL

T8.320 / T8.350 / T8.380 / T8.410 / T8.435 / T8.380 SmartTrax™ / T8.410 SmartTrax™ / T8.435 SmartTrax™

Continuously Variable Transmission (CVT) Powershift Transmission (PST)

Tractor

PIN ZJRE04001 and above

Part number 51537936
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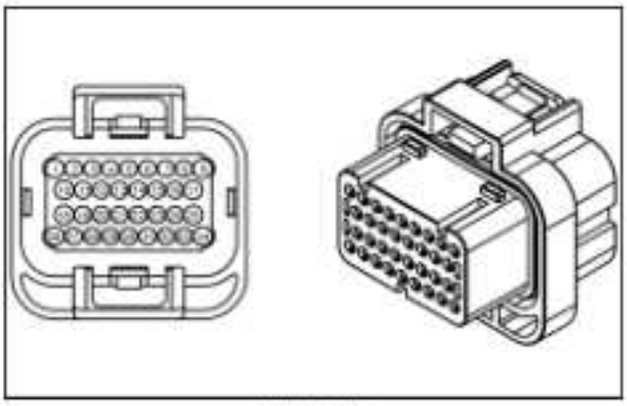
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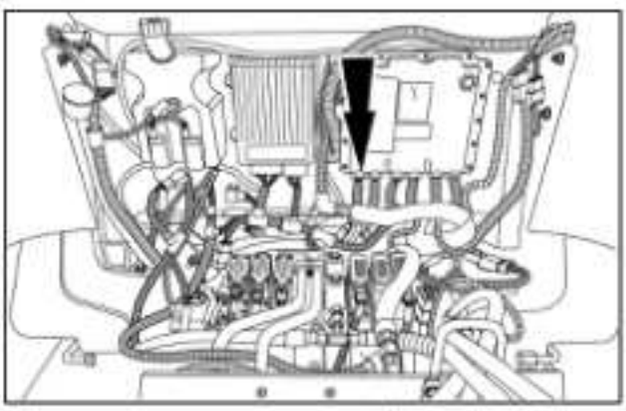
Pin	From	Wire	Description	Color-Size	Frame
C	**X-348P (Plug) pin B** - TO FRONT HITCH HARNESS (87709204)	PO-2832B	SW B+	OR - 3.0	**SHEET 34 - Front hitch**

X-355 - CN3B [A-044] (84130760) (Receptacle)



84130760 9

84130760



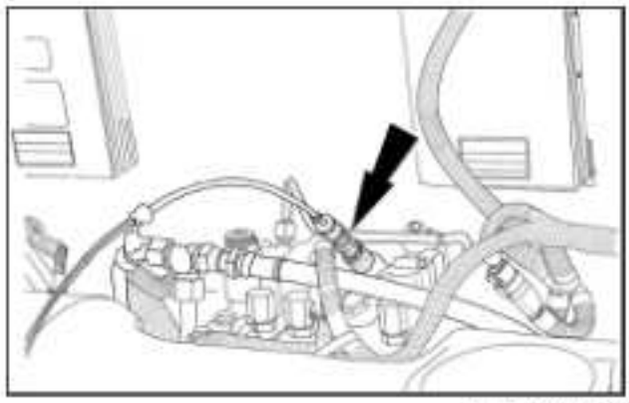
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Pin	From	Wire	Description	Color-Size	Frame
1	**X-010R (Receptacle) pin BB5** - TO CAB HARNESS (84254835)	OC-553	FNRP ENABLE STATUS	WH - 0.8	**SHEET 13 - Transmission, solenoids and sensors**
2	**X-026P (Plug) pin BA5** - TO TRANSMISSION HARNESS (84254824)	OC-588	MID/C2 CLUTCH SOL HI	WH - 0.8	**SHEET 13 - Transmission, solenoids and sensors**
3	SP-901-P-X	OC-901B	+12 VS2	OR - 0.8	**SHEET 14 - Transmission, power distribution**
4	**X-026P (Plug) pin BB1** - TO TRANSMISSION HARNESS (84254824)	OC-2015	REV CLUTCH SOLENOID HI	WH - 0.8	**SHEET 50 - CH24 MRM, CH24 LF PS**
5	**X-026P (Plug) pin BB5** - TO TRANSMISSION HARNESS (84254824)	OC-221	HIGH/C3 CLUTCH SOL HI	WH - 0.8	**SHEET 13 - Transmission, solenoids and sensors**
6	**X-028P (Plug) pin 3** - TO FSUS HARNESS (87695891)	OC-936A	SUS PISTON VALVE	WH - 0.8	**SHEET 15 - Transmission, sensors, front suspension**
7	**X-026P (Plug) pin AC5** - TO TRANSMISSION HARNESS (84254824)	OC-1010	CVT PUMP SWASH HI	WH - 0.8	**SHEET 15 - Transmission, sensors, front suspension**
8	SP-901-P-X	OC-901C	+12 VS1	OR - 0.8	**SHEET 14 - Transmission, power distribution**
9	SP-901-P-X	OC-901A	+12 VS1	OR - 0.8	**SHEET 14 - Transmission, power distribution**
10	**X-026P (Plug) pin BC7** - TO TRANSMISSION HARNESS (84254824)	OC-597	REAR POWER TAKE-OFF (PTO) CLUTCH SOL HI	YE - 0.8	**SHEET 16 - Transmission, brakes, hitch, radar**
11	**X-010R (Receptacle) pin BD4** - TO CAB HARNESS (84254835)	OC-945M	FOOT THROTTLE IDLE VALIDATE SW	YE - 0.8	**SHEET 39 - FNRP, foot throttle**

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2. Install a **345 bar** (**5000 psi**) pressure gauge with hose into the diagnostic fitting on the remote valve manifold.

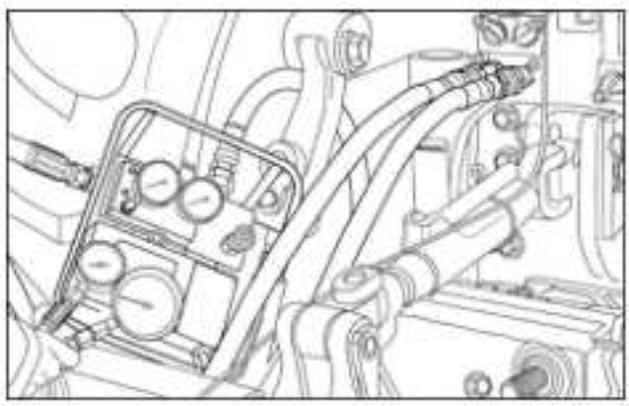
NOTE: *The procedure shown is for the standard CCLS pump. The compensator setting for a* ***MegaFlow™*** *pump system also may be checked. Use the gauge connection on the right hand side of manifold and the third remote valve for* ***MegaFlow™*** *systems.*



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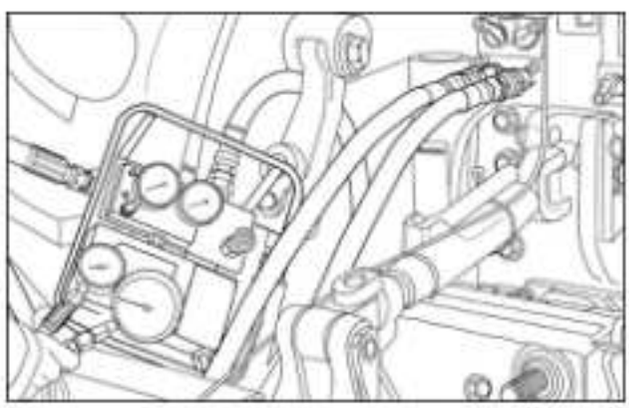
3. Connect flowmeter 380001806 (obsolete) or equivalent to the first remote section.

NOTE: *Use a* ***19.1 mm*** *(****0.8 in****) hose with a minimum working pressure of* ***207 bar*** *(****3000 psi****) for this test.*



RAL1STR017 1SAA 31

4. To perform this test:
   - Set all the remote valve variable flow controls to the maximum flow position.
   - Set the remote valve timer control to the maximum time position.
   - Start and run the engine at **1000 RPM**.
   - Move the control lever for the first remote valve into the extend detent position.
   - Adjust the load valve on the flowmeter to **104 bar** (**1500 psi**), and heat the transmission oil to a minimum of **48.9 °C** (**120.0 °F**).



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4109 - Rear remote no.1 - manually operated

NOTE: *Each remote valve consists of a valve body and a pilot head. The pilot contains the extend and retract solenoids, a sensor to determine spool position, as well as a microprocessor. The pilot head can only be serviced as a compete assembly. The microprocessor controls the extend and retract solenoids and reports the position of the main spool over the CAN bus to the Armrest Control Unit (ARU) and the lower display on the Instrument Control Unit (ICU).*

Cause:
Manual operation detected at the pilot head for remote valve 1.

Possible failure modes:

1. Remote valve manually operated
2. Faulty pilot head on the remote valve

Solution:

1. Check if the error code is still active.

   Clear the error code and test the system for normal operation.

   A. Fault code does not redisplay. Return unit to field operation and monitor for recurring problem.

   B. Fault codes redisplays. Continue to step **2**.
2. Download the most current software into all remote valves. (All pilot heads must be at the same software level.)

   Renumber the remote valves.

   Calibrate the armrest control levers using the procedure in this manual. When calibration is complete, set all timers to continuous and set the flow controls to continuous.

   Calibrate the remote valves using the procedure in this manual.

   Test remote system operation.

   A. Error code does not redisplay. Return unit to field operation.

   B. Error code redisplays. Continue to step **3**.
3. Swap the pilot head causing the error with another pilot head.

   Retest system operation.

   A. Error code follows the pilot head move. Replace the pilot head. Return unit to field operation.

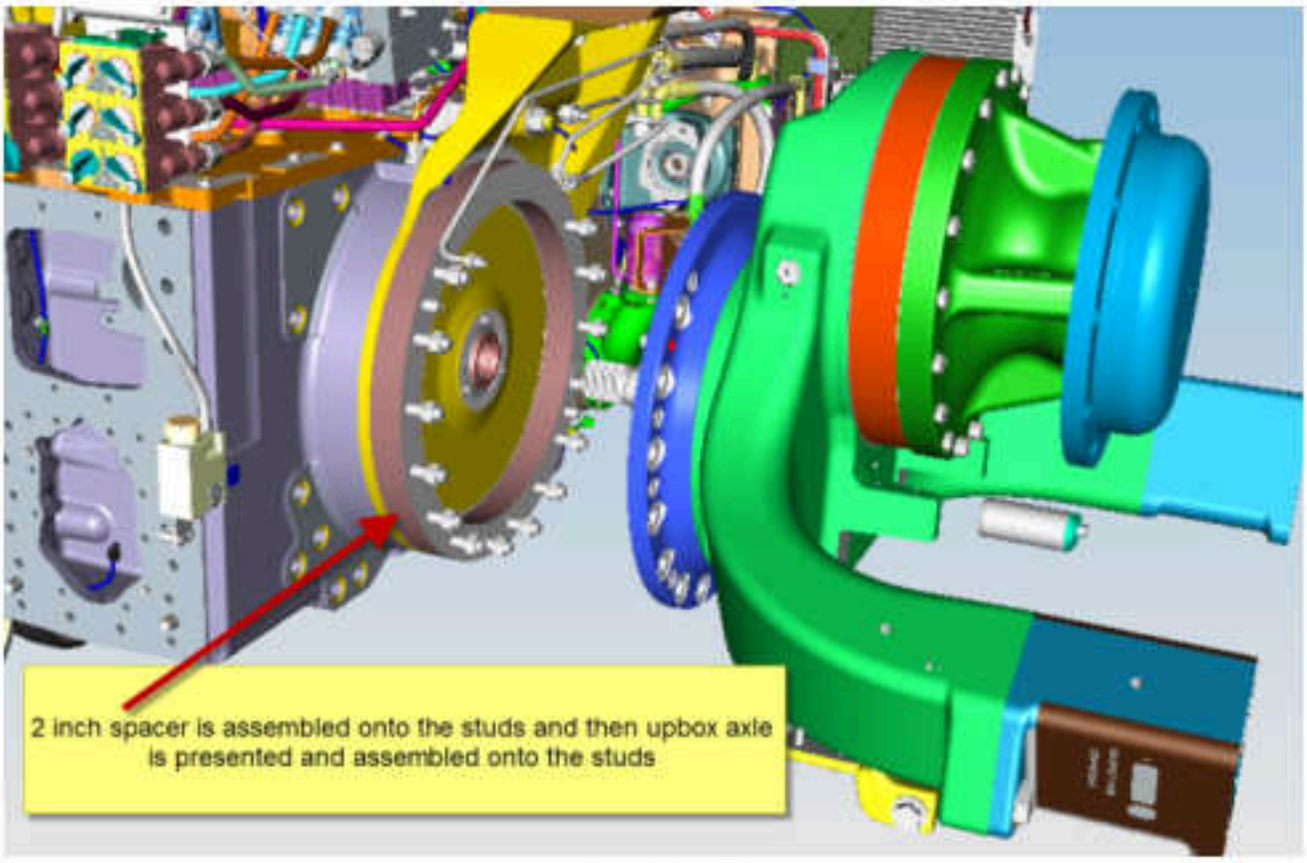
   B. Error code does not follow the pilot head move. Return the good pilot head to its original location. Continue with **4**.
4. Remove the valve body from the stack and disassemble the valve using the procedures in this manual.

   Check for damage or contamination.

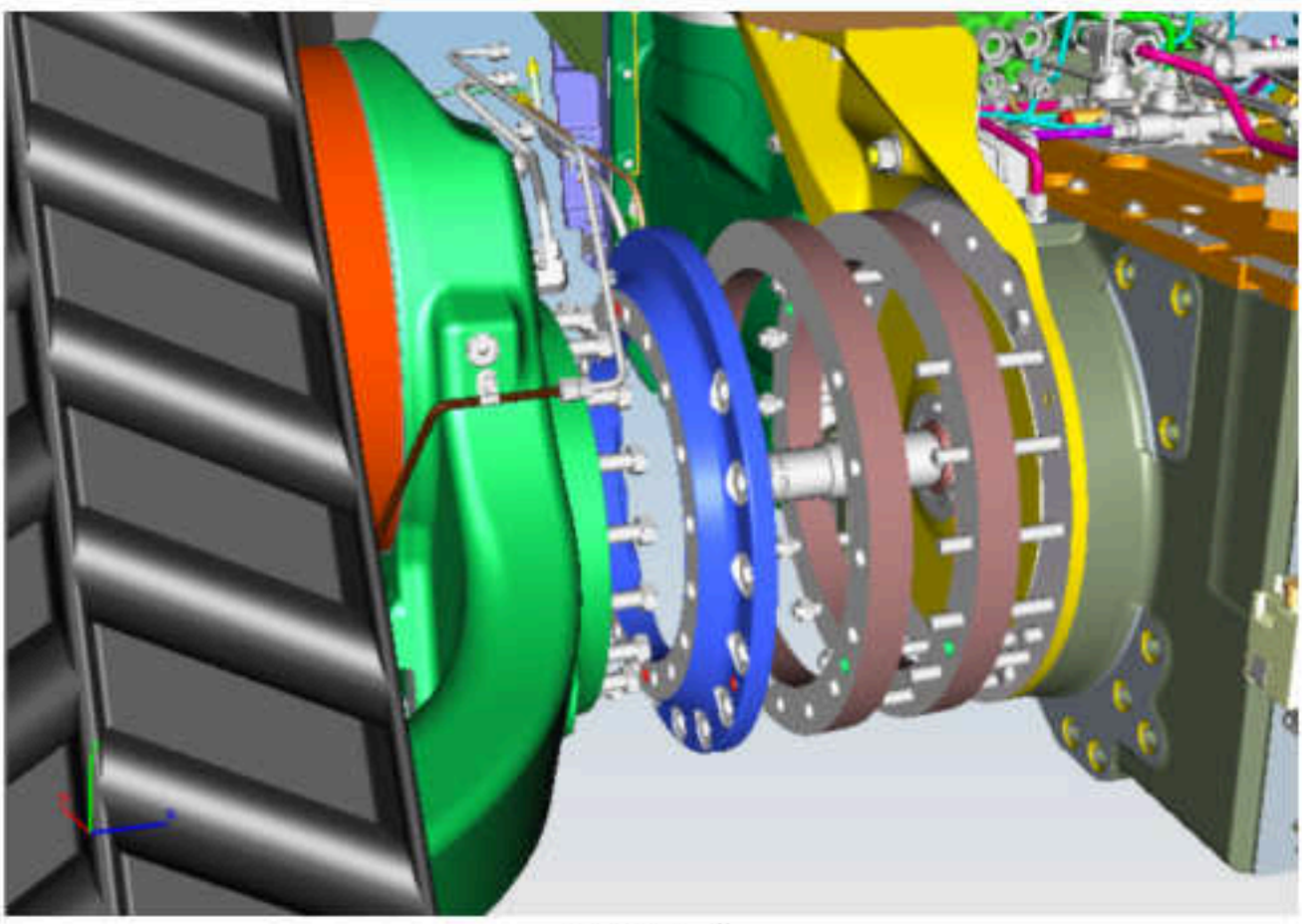
   A. Damage or contamination found. Clean, repair or replace components as required. Return unit to field operation.

   B. Damage or contamination not found. Submit a concern to ASIST.

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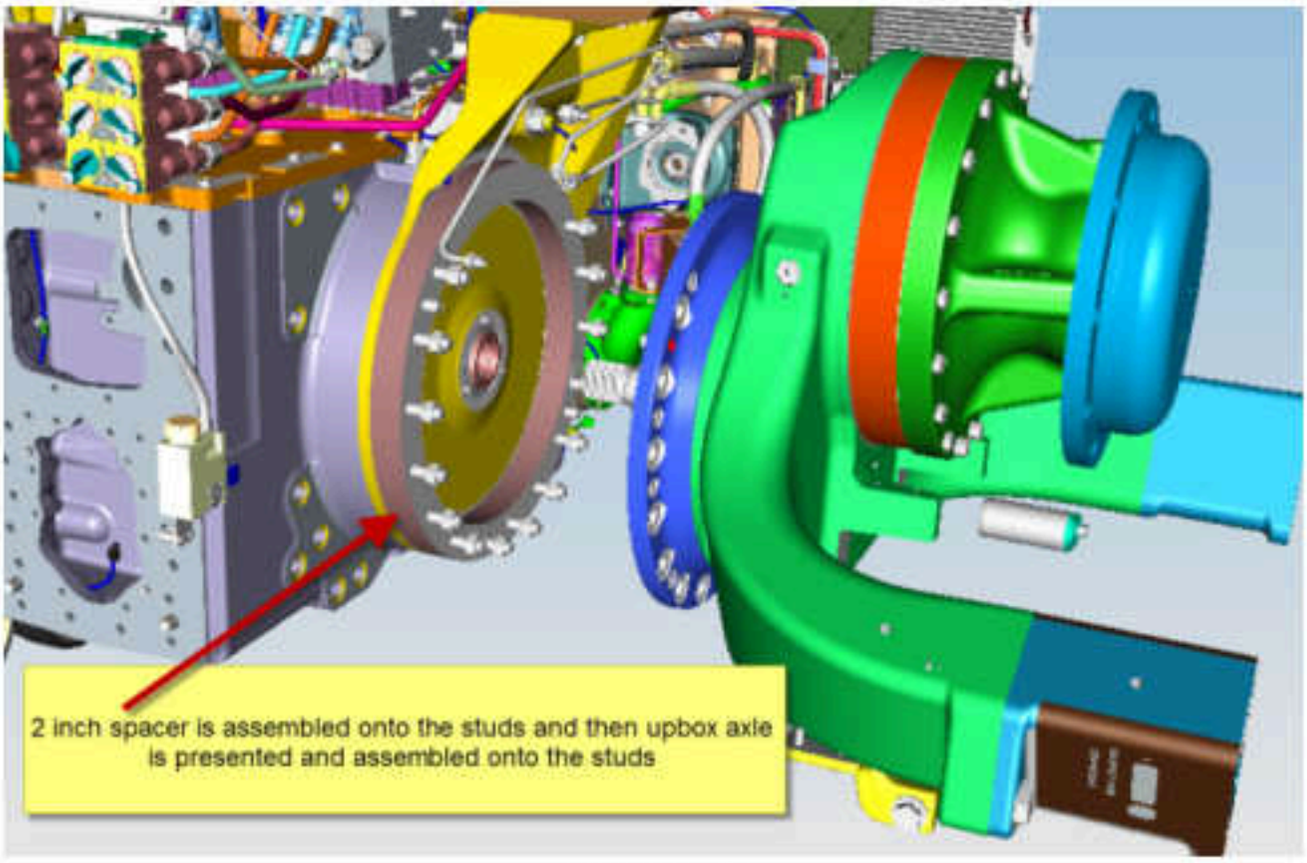
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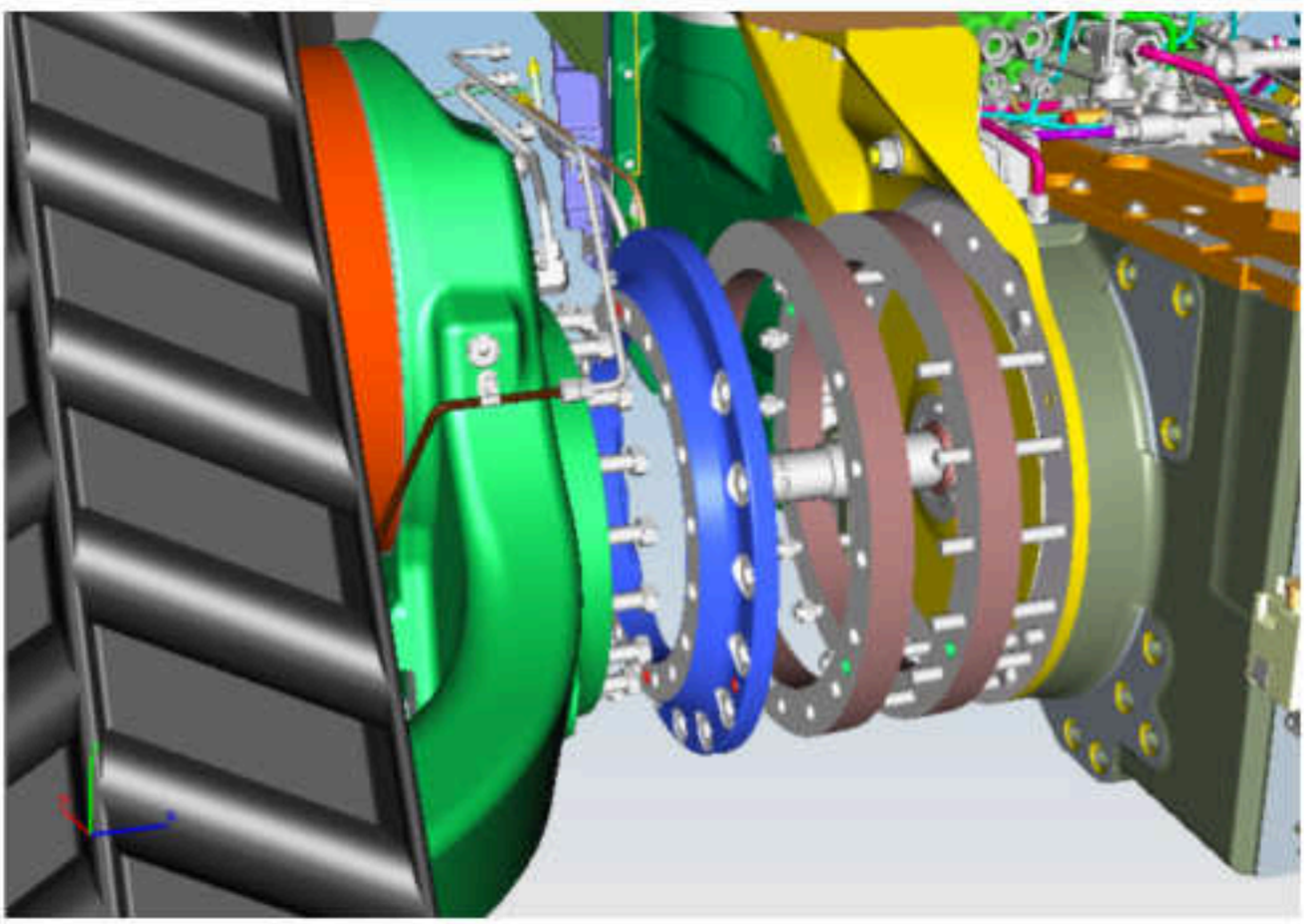
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2032 mm (80 in) tread spacing

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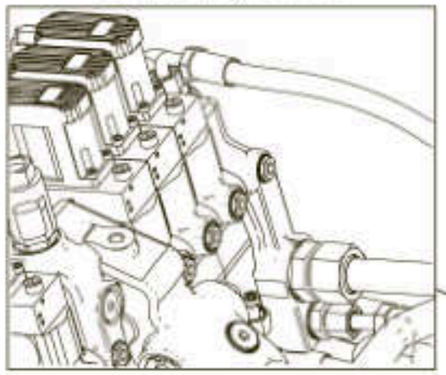


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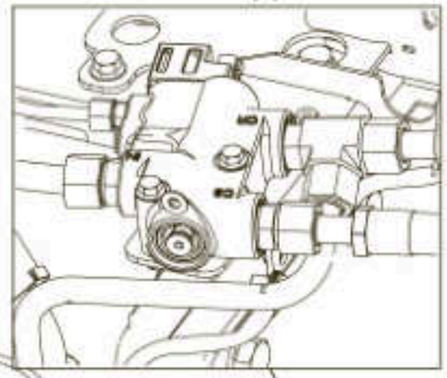
2032 mm (80 in) tread spacing

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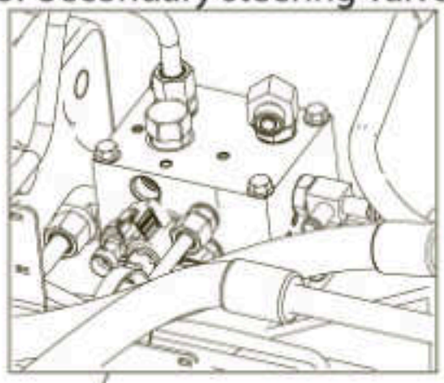
1. Priority valve



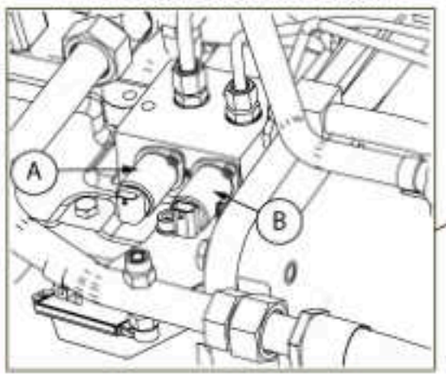
2. Oil cooler bypass valve

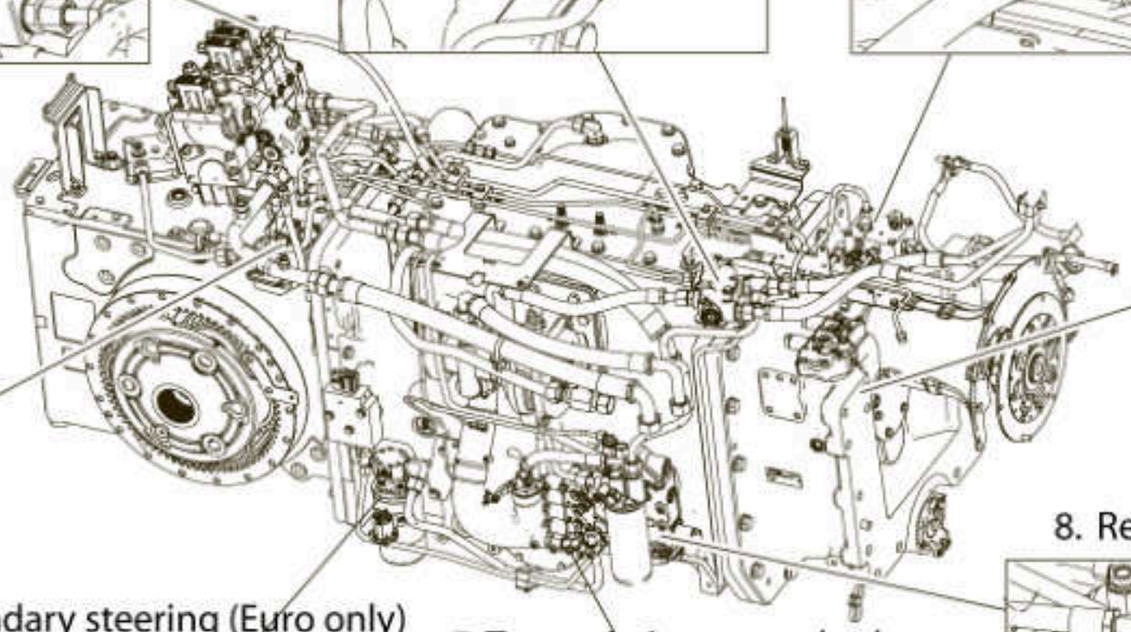


3. Secondary steering valve (Euro only)

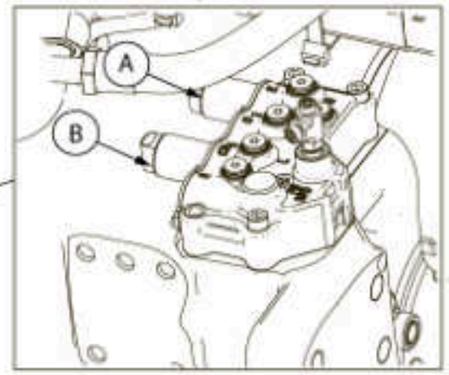


4. Rear PTO brake
MFD Differential lock

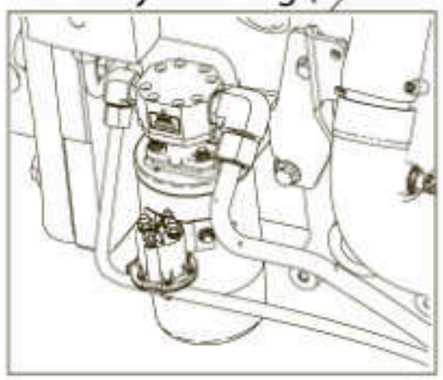




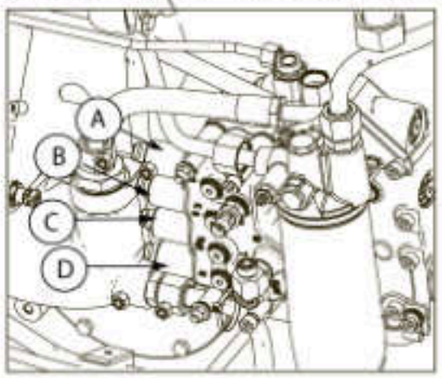
5. Forward/Reverse valve



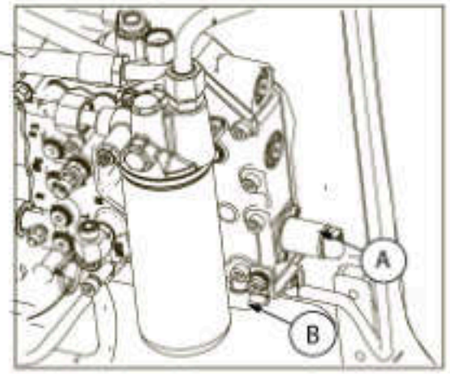
6. Secondary steering (Euro only)



7. Transmission control valve



8. Regulator valve



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