## Electro-hydraulic control valve - Calibrate - Remote valve calibration

T9.390, T9.450, T9.505, T9.560, T9.615, T9.670

The CAN-based EHR valves need to be calibrated prior to use. Before calibrating the valves, the correct address must be assigned. Refer to **Electro-hydraulic control** valve - Configure - Remote valve address reassignment (35.204) for procedure.

**NOTICE:** Valves operate even if they have not been calibrated so the valves can be stroked back and forth to clear debris and for testing. If calibration fails the first time, stroke the valve back and forth for a while and then attempt to calibrate the valve again. Never connect an implement to a valve which has never been calibrated or will not calibrate.

Valves can only be calibrated with the tractor instrumentation. Existing calibration values can be viewed and recorded prior to calibration if desired. Special tool **380001903** will be used for this procedure.

1. Install both articulation cylinder locking blocks before performing any tests.



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2. To calibrate the left bank of remotes, connect the special tool **380001903** to the quick coupler **(1)** on the left bank of remotes. If the unit is set up as parallel flow with MegaFlow, this will calibrate both the left and right bank of valves. When equipped with MegaFlow pump and the tractor is Not set up for parallel flow, the right bank of valves must be calibrated from location **(2)** behind the right bank of remote valves.

**NOTE:** For some valves, the pressure sensor may have to be moved to continue calibration. Turn off the tractor before moving the pressure sensor.

3. Connect the harness end of the tool to the 6-pin Deutsch connector C686M located in the right rear window duct housing. 

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- TCU EHR CAL
- 4. Within the EHR menus, press the DECR key until the EHR CAL screen displays.
- 5. Press the PROG key to enter the calibration screens.

6. Use the INCR or DECR key to select the desired remote valve.

The display indicates when valve calibration is suc-

If calibration fails, a message displays. Follow the recommended action in the table which follows.

Repeat for each valve requiring calibration.

**NOTE:** For some valves, the pressure sensor may have to be moved to continue calibration. Turn off the tractor before

7. Press the PROG key to start calibration.

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moving the pressure sensor.



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Message	Meaning	Recommended action
Error. No CAN	CAN calibration messages not received from the EHR pilot head	<ol> <li>Check that the valve has been numbered (ad- dressed) correctly.</li> <li>Check CAN connections</li> </ol>
Error, Pres_Sen	Incorrect pressure switch status detected by the pilot head	<ol> <li>Check that the special tools is connected to proper coupler.</li> </ol>
		2. Check the harness connection for the tool.
		3. Check that the pressure sensor is operating correctly.
Error, Timeout	Pilot head timed out	
		1. Spool movement not detected.
		2. Calibration messages from the control module not detected.
Cal, Failed	Incorrect or inconsistent calibration values recorded during the procedure.	1. Repeat calibration procedure.
		lems.
Cal, Stopped	Valve calibration terminated prematurely.	Calibration was interrupted by the operator.

11. When calibration is complete, return to the operating screens though the Exit EHR CAL screen, the EHR Exit screen and the Config Menu screen.



## Electro-hydraulic control valve - Remove

T9.390, T9.450, T9.505, T9.560, T9.615, T9.670

1. Drain the hydraulic oil tank. Approximately **76 I** (**20 US gal**) will drain out.



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- - RCPH10FWD178BBJ 3

If the valve stack is equipped with a three point hitch valve, disconnect the wire harness connections from the solenoids (1).
 Remove the two bolts, cover plate, and nut (2).

3. Remove the three point hitch valve from the valve stack.

4. If the valve stack is equipped with a trailer brake valve, remove the three nuts securing the valve to the valve stack. Remove the trailer brake valve.

- 5. Remove the O-rings from the remote valve.

Disconnect the wire harness from the remote valve. Disconnect the drain hose from the elbow fitting.

6.







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7. Remove the remote valve assembly from the valve stack.



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