

Installation of the Electric Hydraulic Valve On The CFR651

The electric hydraulic valve is used to switch the hydraulic flow between the feeder chain motor and the discharge door cylinder.



Shut down the tractor and remove the key before repairing, servicing, lubricating or cleaning the machine.

Relieve all hydraulic pressure in the hoses. Disconnect the hydraulic hoses from the tractor before going near the machine.

Securely block the machine to avoid any movement while doing the work.



Do Not Enter Tub While Parts Are Rotating

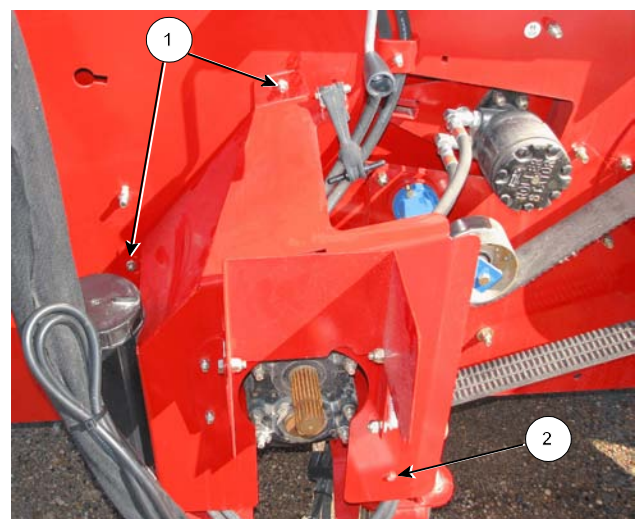
Before entering the tub:

- Turn off the tractor and remove the key.
- Wait for rotating parts to stop

Contact with the rotating flail drum will cause serious injury or death.



1. Open the hinged front guard.
 - Loosen the rubber holder.
 - Swing the guard open.
2. Remove the fixed front guard.
 - Remove the 2 locknuts (1) that hold the guard to the front tub wall.
 - Remove the bolt and locknut (2) that hold the guard to the gearbox mount.
 - Keep these fasteners as they will be reused.

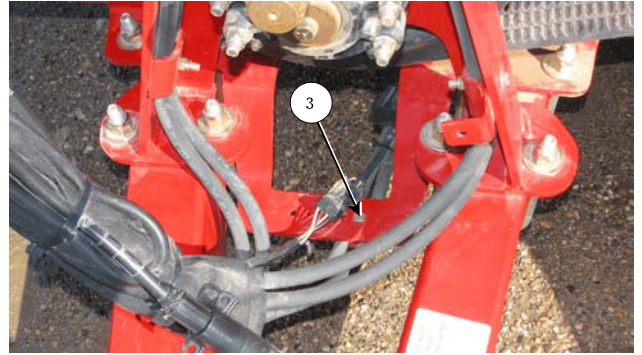


Remove the Fixed Front Guard

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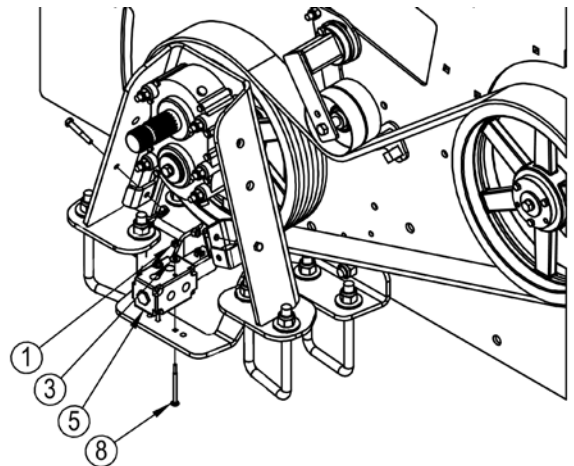
3. Remove the fasteners (3) from the hose clamp which is on the bottom of the bracket between the hitch tubes.
 - Keep the clamp and fasteners to be re-used later.
 - Move the hoses to the side to make room for installing the solenoid valve.



Remove the Front Hose Clamp

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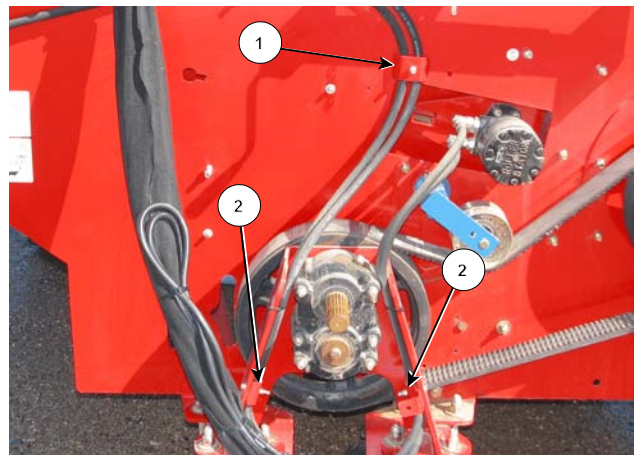
4. Install the solenoid valve (5) onto the top of the bracket.
 - Mount the valve with the electrical connections facing upward and toward the tub wall.
 - Use 2 of 1/4" X 3 1/2" carriage bolts (8), flatwashers (3) and locknuts (1) to mount the valve.



Install the Solenoid Valve

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5. Remove the hose clamp (1) on the front tub wall.
6. Remove the 2 hose clamps (2) on the gearbox mount.



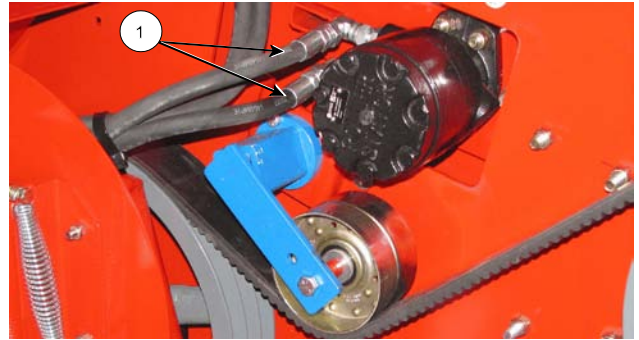
Remove Hose Clamps

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7. Remove both hydraulic hoses (1) that are connected to the feeder chain motor and run to the tractor.

- Take note of how these hoses are routed along the gearbox mount. The new hoses will follow the same routing.
- Discard the hoses which are removed.

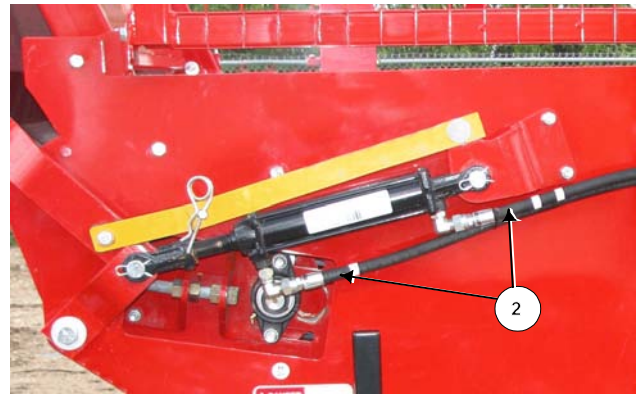


Remove Motor Hoses

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8. Remove both hydraulic hoses (2) that are connected to the discharge door cylinder and go to the tractor.

- Leave the orifice and elbow in the rod end of the cylinder.
- Leave the elbow in the base end of the cylinder.
- Take note of how these hoses are routed along the front tub wall and along the gearbox mount. The new hoses will follow the same routing.
- Discard the hoses which are removed.

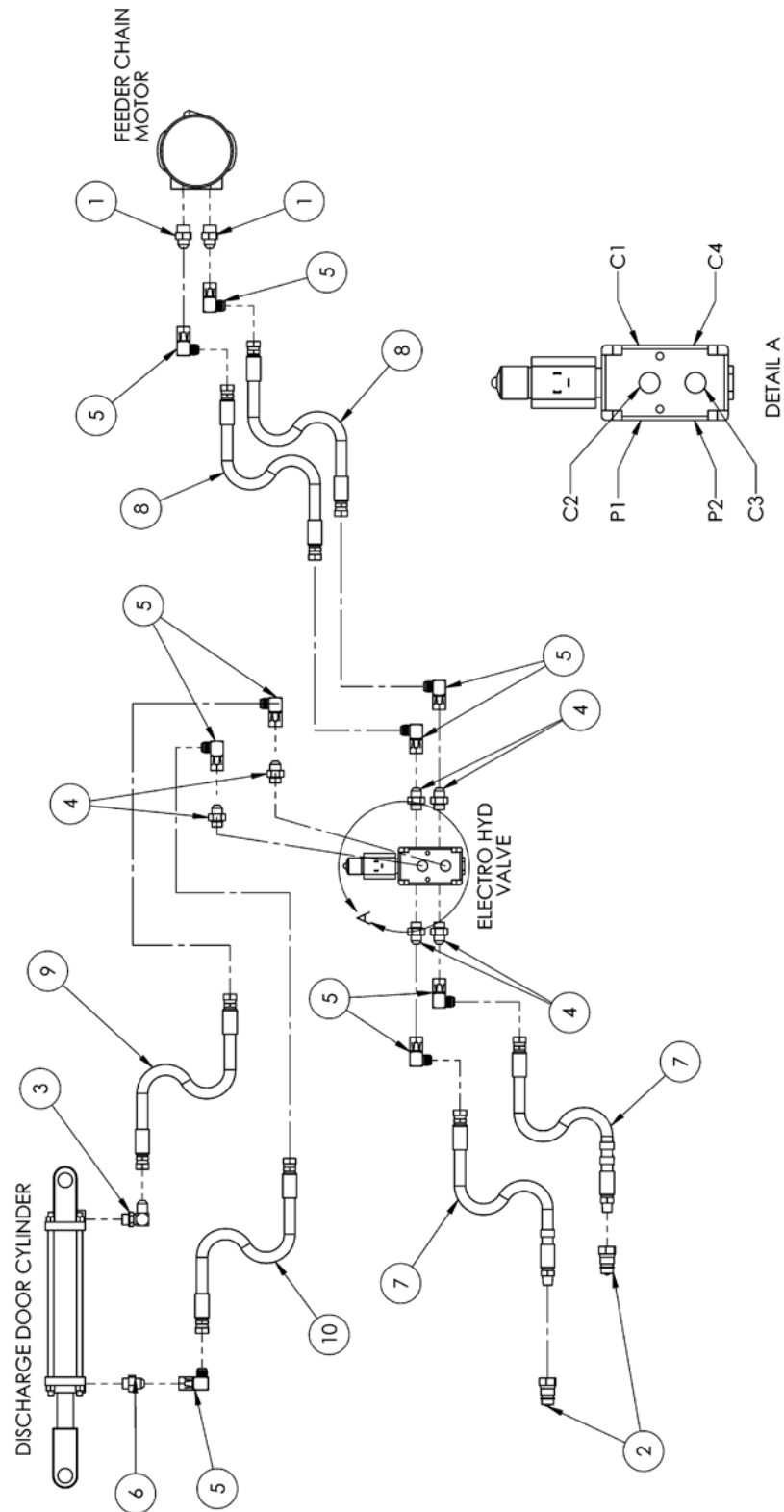


Remove Cylinder Hoses

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9. Connect the new hydraulic fittings and hoses according to the table and drawing shown below.

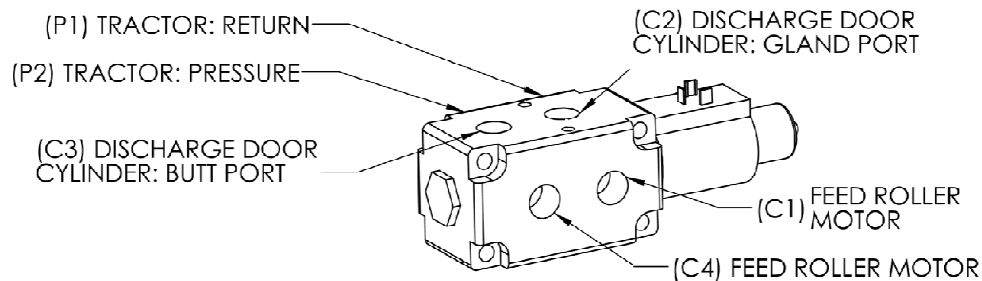
ITEM NO.	DESCRIPTION	QTY.
1	HYD,FIT,ADAPTER,10MB-8MJ	2
2	HYD,FIT,PIONEER,MALE,8FP	2
3	HYD,FIT,ELBOW,8MB-8MJ90	1
4	HYD,FIT,ADAPTER,8MB-8MJ	6
5	HYD,FIT,ELBOW,8FJX-8MJ90	9
6	HYD,FIT,ADAPTER,8MB-8MJ,031ORIFICE	1
7	HYD,HOSE,3/8X98,8MP-8FJX,2W	2
8	HYD,HOSE,3/8X38,8FJX-8FJX,2W	2
9	HYD,HOSE,3/8X76,8FJX-8FJX,2W	1
10	HYD,HOSE,3/8X84,8FJX-8FJX,2W	1



Fittings and Hoses

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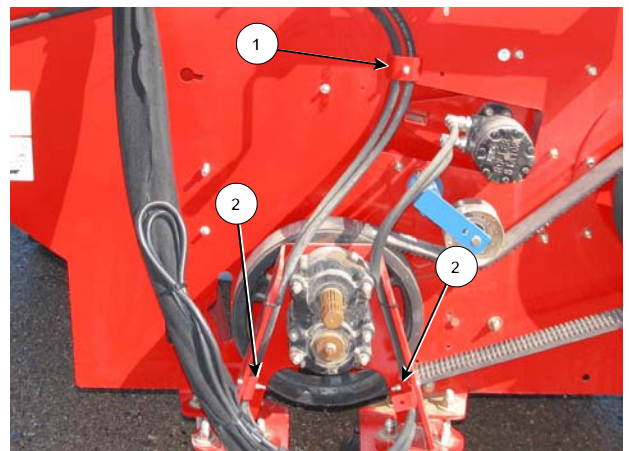
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Hoses to the Solenoid Valve

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10. Use zipties as required to keep the hose routing tidy and away from areas that may damage the hoses.
11. Replace the hose clamps (2) onto the hoses which are on the gearbox mount.
12. Replace the hose clamp (1) onto the hoses on the front tub wall.
13. Replace the hose clamp at the bottom of the bracket between the hitch tubes.



Replace Hose Clamps

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- Connect the clamp with the fasteners removed in Step 1.
14. Place the hoses through the nylon abrasive sleeve to prevent damage.
 15. Route the electrical harness from the solenoid valve to the tractor cab.
 16. Connect the electrical harness to the solenoid valve connectors.
 17. Connect the electrical harness to the selector switch in the tractor cab.
 18. Connect the harness to the positive and negative terminals of a 12 volt power supply.



Place Hoses in Abrasive Sleeve

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