

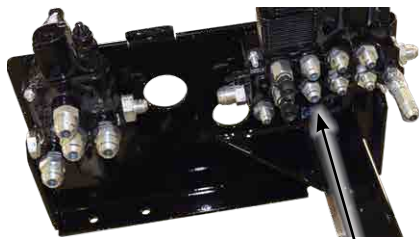
1600-TL SERIES TRUCK LOAD CONVEYORS HILL CONTROL PACKAGE INSTALLATION

The following instructions are the procedures to install the manifold and accompanying hoses (pictured to the right). They will be added to the hoses below the hydraulic valves.

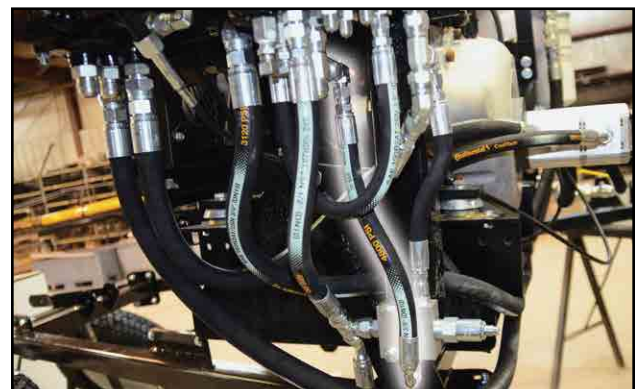
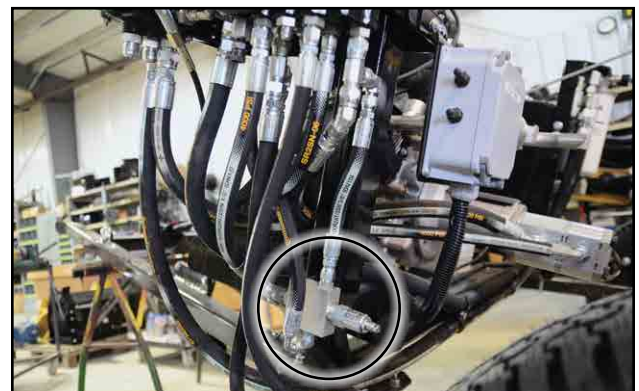
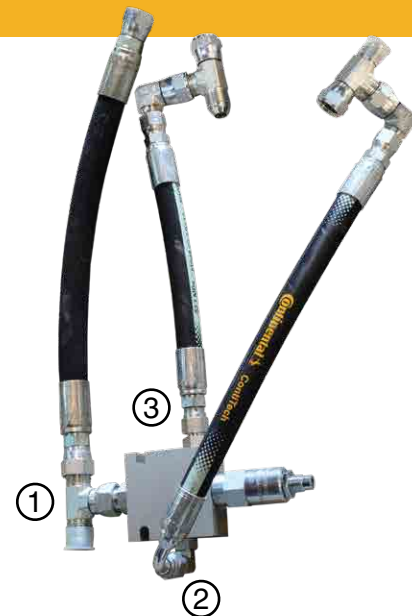
It will control the back pressure which will assist the conveyor's mover kit on sloping terrain.

The ports on the manifold are numbered. They should be installed as follows:

- (1) Install between the hose from the driver-side wheel motor and its valve.
 - (2) Install between the hose from the passenger-side wheel motor and its valve.
 - (3) Attach to the hydraulic pressure valve.
1. Bolt the manifold to the vertical arm, under the valve table.
 2. Find the hose leading to the passenger-side wheel motor.
 - It is connected to the left, inner, rear port on the mover kit valve.
 - Remove the hose.

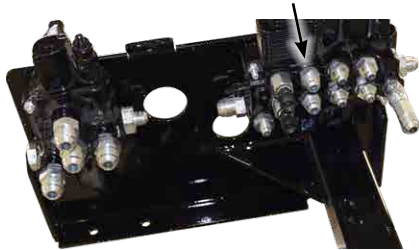


3. Attach the "T" at the end of the hose from manifold port #2, to this, just opened, port on the valve.
4. Reconnect the hose from the passenger-side wheel motor to the bottom end of the "T" fitting.



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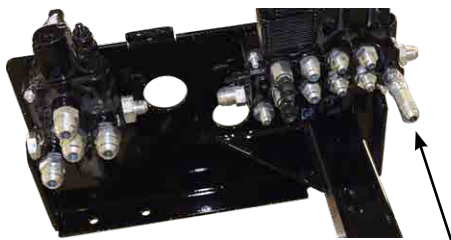
5. Locate the hose leading to the driver-side wheel motor to the mover kit valve.
 - It will be connected to the left, inner, front port.
 - Remove that hose.



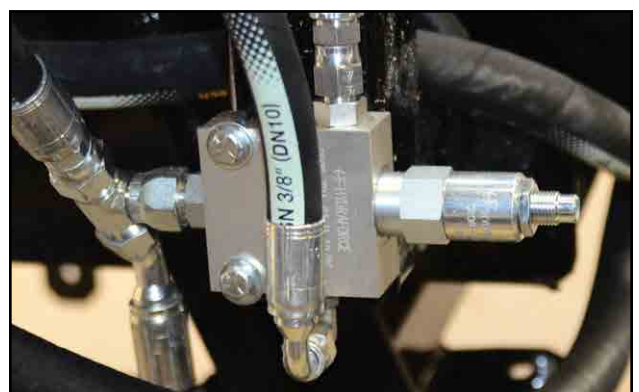
6. Attach the hose from the “T” at the manifold port #1, to that open port on the mover kit valve.
7. Reattach the hose from the driver-side wheel motor to the bottom end of the port #1 “T” fitting.



8. Remove the hose from the hydraulic pressure valve, the far right side, bottom port.



9. Connect the “T” fitting and hose from the manifold port #3, to this fitting.
10. Attach the removed hose to the bottom of the “T” fitting.



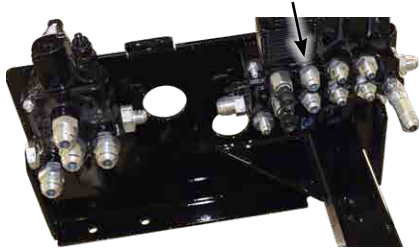
Note:

The back pressure can be adjusted, using the set screw on the manifold. Fine-tune the pressure to your requirements.

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These next instructions are to replace the “Motor Drive Spool”, with a new “Cylinder Spool”.

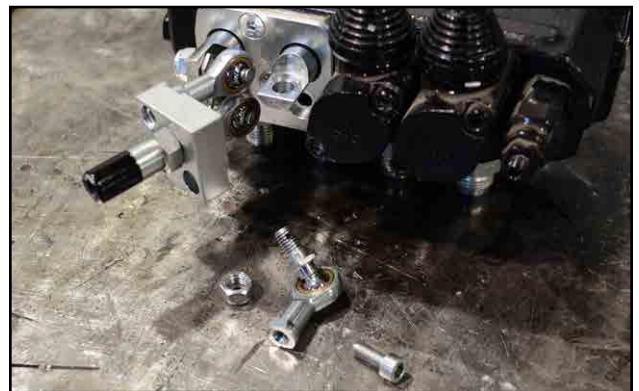
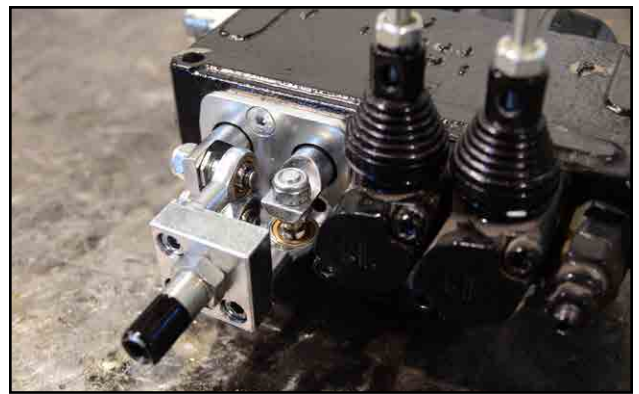
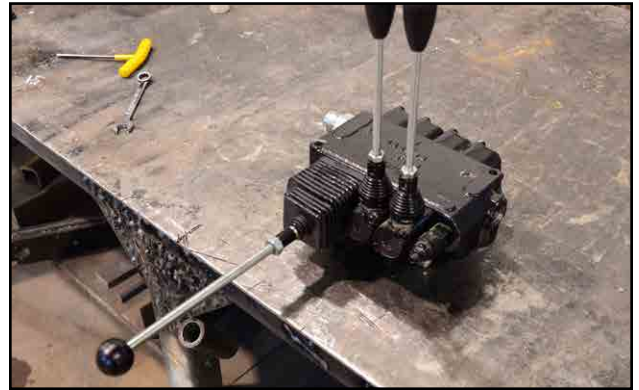
The spool which will be replaced; affects the left, inner ports of the mover kit valve.



Note:

The hydraulic valve was removed from the valve table for illustration purposes. Replacement should be done with the valve installed, and hoses connected.

11. Remove the mover kit handle.
12. Slide off the rubber boot to expose the inside workings.
13. Use a 3/16” Allen Key to remove the bolt, exposing the pivot knuckle.
14. Use two 1/2” wrenches to remove the pivot knuckle from the end of the spool.



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15. At the rear of the valve, remove the cap to expose the end of the spool.

16. Slide the spool out of the valve.

17. These are the spools:

- (1) The “Motor Drive Spool”, which you just removed.
- (2) The “Cylinder Spool”, which you will install.

Identify the ends of the new spool for correct orientation.

- The rear end of both spools have large notches and grooves with similar spacing.

18. Remove the components from both ends of the old spool.

19. Place those same ends onto the new spool.

- End with bolt hole to the front.
- End with spring to the rear.

20. Grease inside the spool hole in the valve.

21. Carefully insert the new spool from the back of the valve.

- Don't damage the two O-rings inside the valve.

22. Reinstall the pivot knuckle.

- Tighten the nut on top.
- Bolt the knuckle back onto the valve handle base.

23. Work the rubber boot back over the components, and screw on the valve handle.

Installation is complete!

