

## TCSNH-1000-HDMK SERIES CONVEYOR DYNAMIC BRAKE PACKAGE INSTALLATION

This manifold and accompanying hoses, are to be added to the hydraulic valves.

It will control the back pressure which will assist the mover kit as the conveyor is driven over sloping terrain.

The ports on the manifold are numbered. Listed below are:

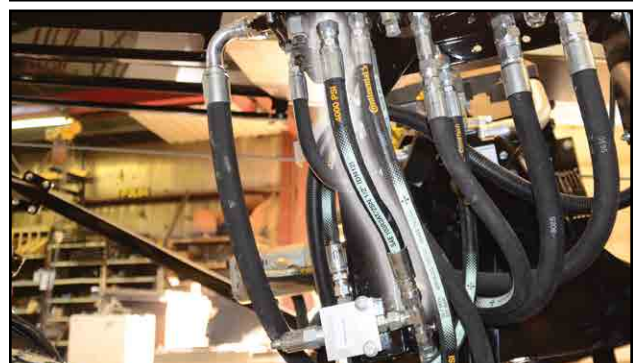
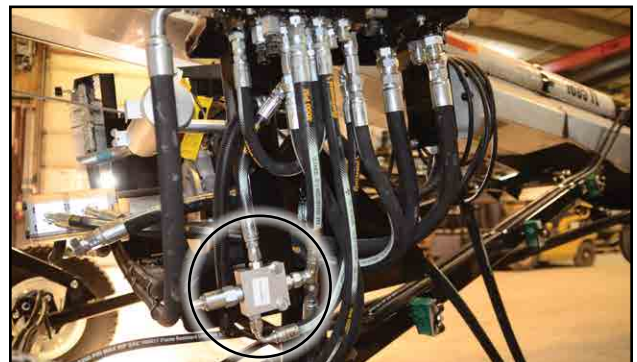
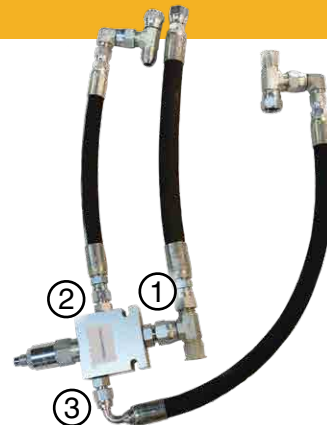
- (1) Install between the hose from the passenger-side wheel motor and its valve.
  - (2) Install between the hose from the driver-side wheel motor and its valve.
  - (3) Attach to the hydraulic pressure valve.
1. Bolt the manifold to the vertical arm, under the valve banks.

2. Locate the hose leading from the passenger-side wheel motor.

3. Remove that hose from the valve bank.
  - It will be the front, second from left fitting.

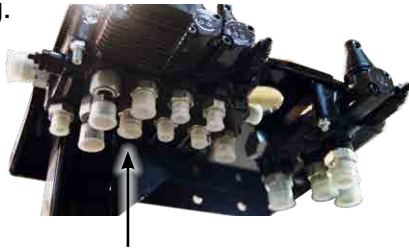


4. Attach the hose from the “T” at the #1 port, on the manifold to that fitting.

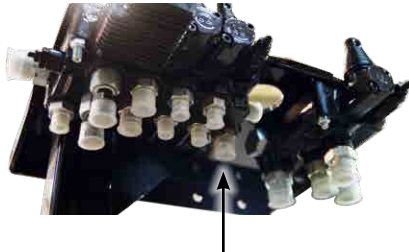


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5. Attach the hose from the wheel motor to the bottom end of the “T” fitting.
6. Find the hose leading from the drivers-side wheel motor.
  - It will be connected to the rear, second from left fitting.



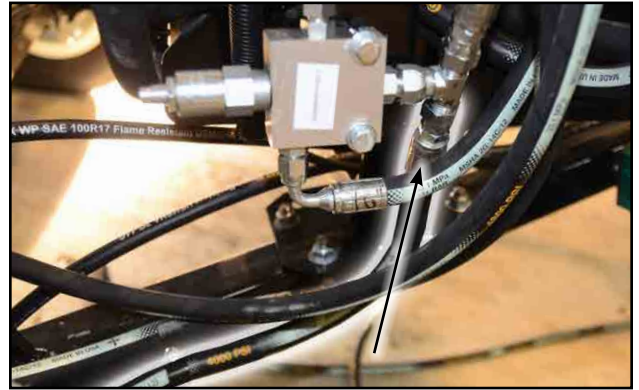
7. Attach the hose leading from the #2 port (with the “T” at the end of the hose), to this fitting on the valve bank.
8. Connect the hose from the wheel motor to the bottom end of the “T” fitting.
9. Remove the hose from the indicated location.



10. Connect the hose from port #3, to this fitting.
11. Now, attach the removed hose to the bottom of the “T”.

**Note:**

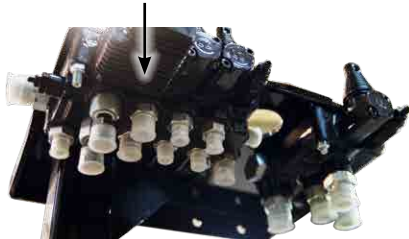
The back pressure can be adjusted, using the set screw on the manifold. Fine-tune the pressure to your requirements.



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

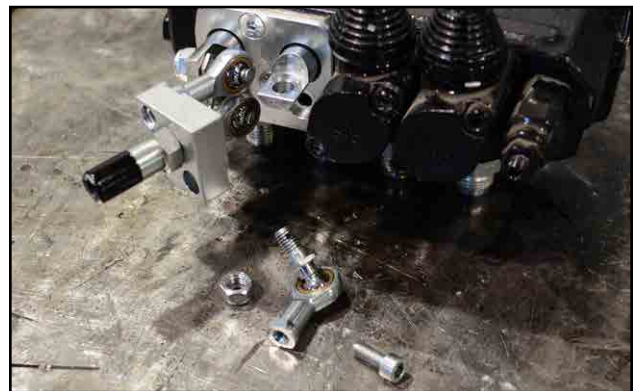
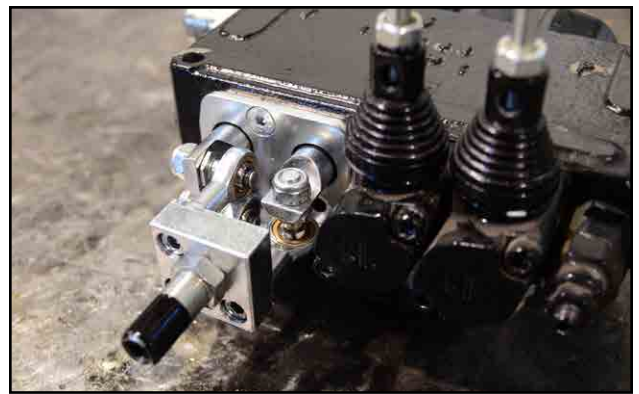
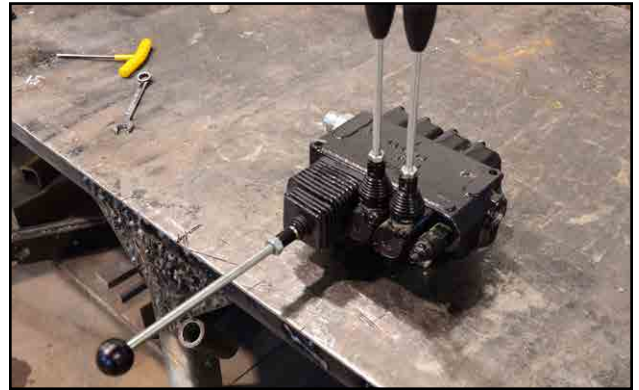
The spool which will be replaced; affects the left, inner ports of the mover kit valve.



**Note:**

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

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



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

17. Slide the spool out of the valve.



18. 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.



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

20. Place those same ends onto the new spool.

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

21. Grease inside the spool hole in the valve.



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

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

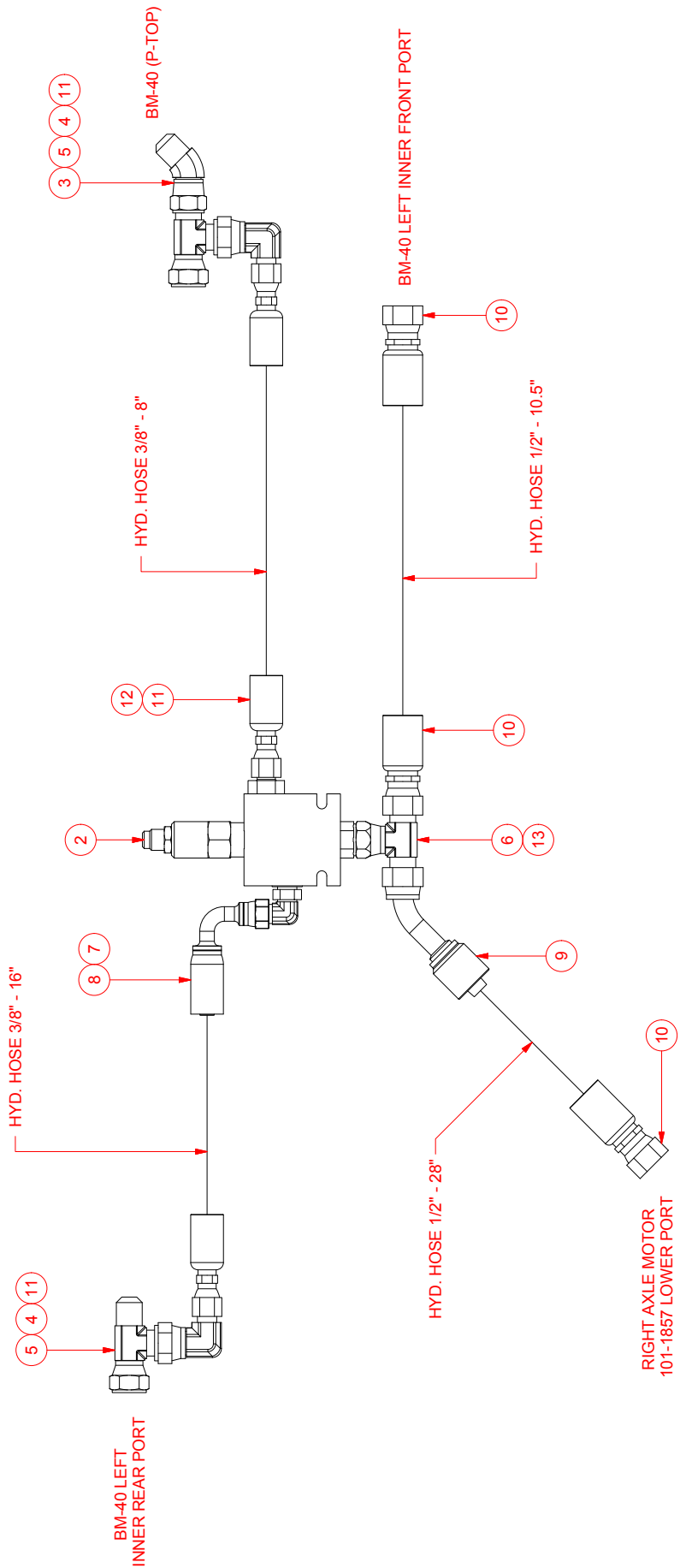
23. Reinstall the pivot knuckle.

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

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



Installation is complete!



WINKLER, MB CANADA (204) 325-4195 1645	
TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONAL ±1/16 DECIMAL ±0.1 ANGULAR ±1°	INCH FORM UNLESS OTHERWISE SPECIFIED DRAWING NOT TO SCALE
<b>PART NO. 504447</b> <b>TITLE DYNAMIC BRAKE SYSTEM PACKAGE FOR TCSNH-1045 MK</b>	
CREATED: 03/02/2017 DRAWN BY: AS DESIGNED BY: AS REVISED BY:	MATERIAL SQ. IN. REV. #
WT: 4.666 lbmass REF #: SHEET: 1 OF 1	

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ITEM	PART #	DESCRIPTION	QTY
1	18-4500-0172	HYDRAULIC - SPOOL - CYLINDER - BM40 - HILL CONTROL	1
2	18-4500-0171	HYDRAULIC VALVE - BI DIRECTIONAL RELIEF - HILL CONTROL	1
3	18-3500-0424	8MJ-8FJX 45°	1
4	18-3500-0373	8FJX-6MJ-90	2
5	18-3500-0371	8FJXR-8MJT	2
6	18-3500-0351	8FJXL-8MJT	1
7	18-3500-0282	6MB-6MJ-90	1
8	18-3500-0266	6WC - 6FJX90	1
9	18-3500-0237	8WC-8FJX-45	1
10	18-3500-0231	8WC - 8FJX	3
11	18-3500-0191	6WC - 6FJX	3
12	18-3500-0119	6MB - 6MJ	1
13	18-3500-0118	6MB - 8MJ	1