




## ELECTRIC OVER HYDRAULIC COVER ASSEMBLY

### INSTALLATION INSTRUCTIONS

These instructions are to assist you in the installation of the Electric over hydraulic (E/H) system on your HydraBed. Thoroughly read the instructions prior to installation to give you a better understanding of how the system is to be installed. Before installation, make sure the vehicle has cooled down to prevent injury from burns.

Item No.	Part No.	Description	Quantity	
1		E/H Cover Assembly	1	
2	HD-RUBBER ETRIM .1875	Rubber trim	1	
3	EI-.375 INSULATOR STUD	Red Terminal Insulator	1	
4	HA-PR096	Pressure Hose	1	
5	HA-SU060	1" Suction Hose	1	
6	FP-EH-LATCH BRKT	Latch Bracket	1	
7	HD-CH 1 HOSE CLAMP	Hose Clamps	2	
8	EL-TERMFUSEBLOCK	300A Fuse Block	1	

9	EL-1GAR-192	Red (+) Cable	1	
10	EL-1GAB-192	Black (-) Cable	1	
11	BO-1/4"x3/4 BHCS	1/4"x 3/4" Button head bolt	2	
	BO-1/4" FN	5/16" Flanged nut	2	
12	EL-W15-16-26T-9/0	16ga white/black wire	6ft	
13	EL-PL-CLUTCH WIRE	Clutch wire	1	
14	EL-SBC922005	Butt Connector	1	
15	EL-RT552105	#10 ring terminal	1	

#### TOOLS NECESSARY:

- Drill with 5/16" metal drill bit
- 5/16", 3/8", 7/16", 1/2", 9/16" Sockets/wrenches
- 1/8", 3/16" Allen wrenches
- Hand grinder with cutoff wheel
- Phillips screw driver
- Flat head screw driver
- Tape Measure
- Eye protection

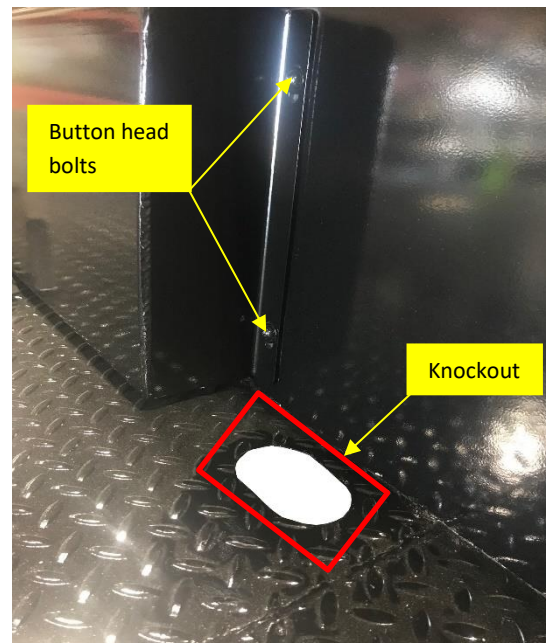
GENERAL NOTES:

- It is recommended that trucks have two batteries.
- Motor is thermally protected at 239° Fahrenheit and reset at 170° Fahrenheit.
- It may be necessary to adjust clevises for electric actuators at valve for full valve spool travel. It will be necessary to loosen and Loctite ALL clevises for electric actuators once full valve spool travel is verified.

INSTALLATION INSTRUCTIONS:

1. Remove knockout from Hydrabed floor using personal safety eye protection and a hand grinder with cut off wheel. Add rubber edge trim (**ITEM 2**) to protect hoses and wires. Using a 3/16" allen wrench, remove the two (2) button head bolts securing the inner end of the oil reservoir. Figure 1

Figure 1



2. Position the E/H cover assembly (**ITEM 1**) with the slots in the hinged portion of the assembly aligned to the slots in the oil reservoir where the button head bolts were removed. While making certain the top of the E/H cover and hydraulic reservoir are level, replace the button head bolts to secure the cover and reservoir to the headache rack filler sheet. Figure 2

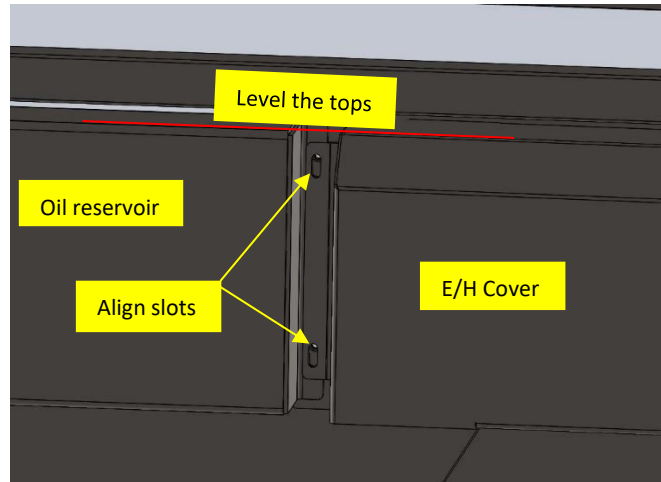


Figure 2

3. Using the latch as a positioning tool, close the E/H cover assembly and mark the two mounting locations for the latch keeper. Drill two 5/16" holes in the headache rack filler sheet at the marked locations and secure the latch keeper with two 1/4" x 3/4" button head bolts (**ITEM 11**) and two 1/4" flanged nuts (**ITEM 11**). Minor adjustments may be needed on the latch to insure proper latch closure. Use the latch mounting screws and E/H cover handle mounting screws to make necessary adjustments. Figure 3

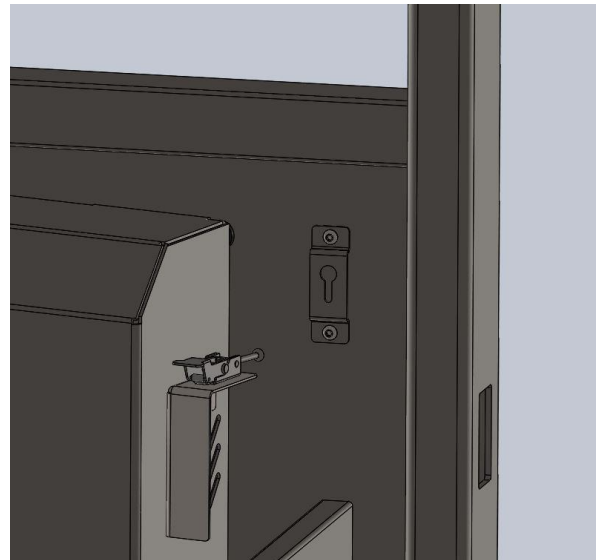
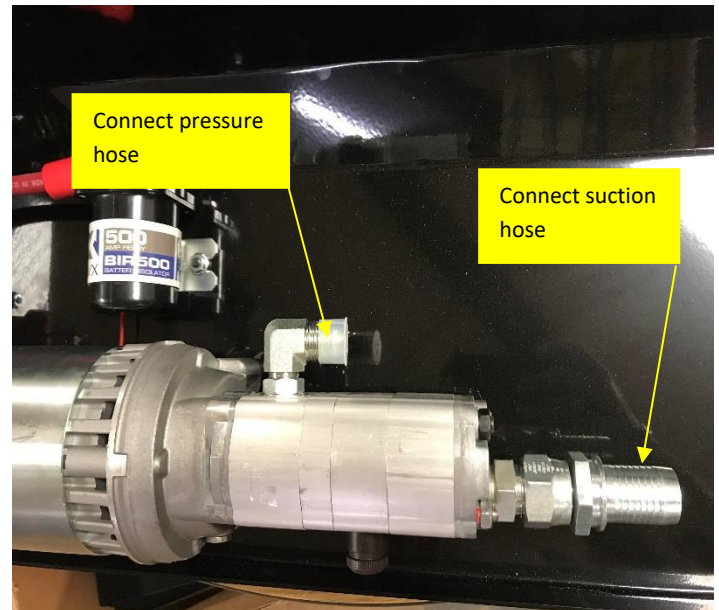


Figure 3

4. Attach one end of pressure hose (**ITEM 4**) to the 90° adapter on the pump. Route the hose through the knockout hole and attach the other end to the 90° adaptor on the valve using a 1-1/16" wrench. Figure 4
5. Route the 1" suction hose (**ITEM 5**) through the knockout hole and attach to the oil reservoir hose barb fitting and to the pump hose barb fitting using two hose clamps (**ITEM 7**). Tighten with flat screw driver or 5/16" nut driver to 20 ft/lbs. Figure 4



6. Connect 1 gauge black cable (**ITEM 10**) to the motor negative stud and route through the knockout to the vehicle negative battery post and connect it to the battery. Figure 5

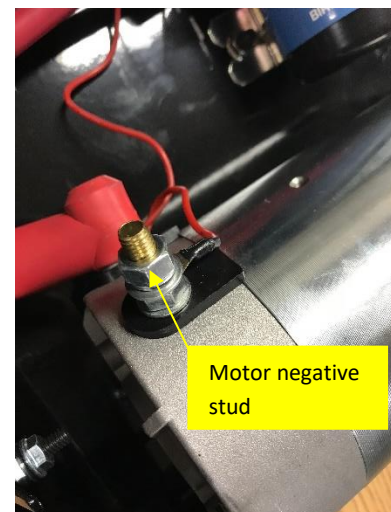


Figure 5



7. Attach the fuse block (**ITEM 8**) to the positive battery post. Thread the red rubber boot (**ITEM 3**) at one end of the 1 gauge red cable (**ITEM 9**), connect the cable end to the open large stud on solenoid and route the cable through the knockout to the vehicle battery and connect it to the fuse block. Figures 6 & 7

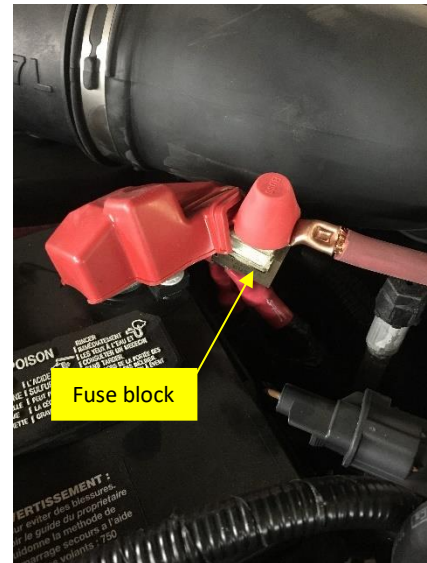


Figure 6

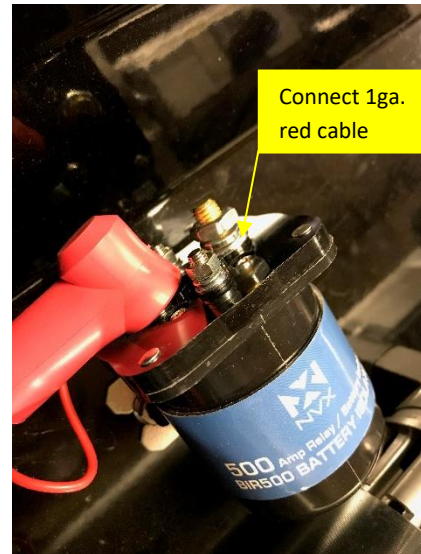


Figure 7

8. Connect the white/black wire (**ITEM 12**) to the white/black wire of the electric controls system using the butt connector (**ITEM 14**). Route the connected wire through the knockout to the open small stud on the solenoid. Cut off excess wire, connect the ring terminal (**ITEM 15**) and connect to the open small stud. Figure 8



Figure 8

If connecting to the HydraSTX control system, connect the clutch wire (**ITEM 13**) to the white wire of the HydraSTX harness. Route the connected wire through the knockout to the open small stud on the solenoid. Cut off excess wire, connect the ring terminal (**ITEM 15**) and connect to the open small stud. Figure 8

**Note: This application no longer uses the relay that was used in previous E/H motor installations).**

9. Use zip ties, not provided, to properly position all cables, hoses and wires along their route. Make certain that routed items do not contact any moving items or items that may become hot.
10. Fill oil reservoir with hydraulic fluid (Conoco Power Tran, John Deere Hy-Gard or Case Hy-Tran Ultra SSL). It is recommended to do the initial run-in of the Hydrabed at this time.