

PARTS & INSTALLATION INSTRUCTIONS 08129 E-88 TO E-68 UPGRADE KIT

PARTS LIST

Item	Part No.	Qty.	Description
	08129		E-88 to E-68 Upgrade Kit
1	05024	1	• Power Cable
2	22691	1	• Universal Truck Side Harness
3	22694	1	• Xpress Plow Side Harness
4	22693	1	• Xpress Hardwire Controller
	22705	1	• E-68 Label
	07115	1	• Control Module Carton
5	07116	2	•• Control Module
	07117	2	•• "B" Harness
6	07118	2	•• "C" Harness
	15959	1	• "B" Check Valve Kit
	08134	1	• Hardware Bag
7	21398	2	•• Self Tapping Screw 1/4-14 x 3/4"
	07125	6	•• Blue Butt Connector w/Heat Shrink
	09776	10	•• Cable Tie

DISASSEMBLY INSTRUCTIONS

1. Remove the hydraulic unit from the truck. Remove the front half cover by removing the two philips head screws in front housing located just below the E-88 emblem (figure 1). Then press in the two side locking tabs and pull out on front cover lifting it off (figure 2).



FIGURE 1

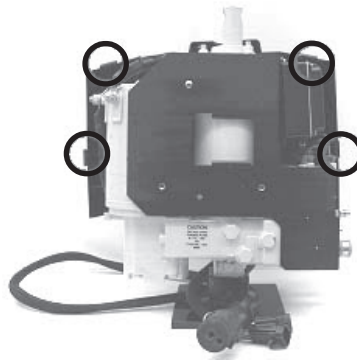


FIGURE 2



FIGURE 3

2. To remove the back half of the plastic cover remove the three philips head screws and unscrew the mount switch rubber boot. Lift the back plastic cover up and off the hydraulic unit and set it aside (figure 3).

Parts indented are included in the carton, bag or assembly under which they are indented.

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3. The PCM is now accessible. To remove, begin by disconnecting the wires that are attached to the motor solenoid (figure 4). Using a 9/16", 7/16" and 3/8" wrench or socket, remove all wires from the motor solenoid. Replace Motor Solenoid fasteners onto motor solenoid. Remove the mounting nuts from the motor solenoid mounting bracket so the motor solenoid can be removed. Retain motor solenoid so that it can be re-located to engine compartment for final assembly.

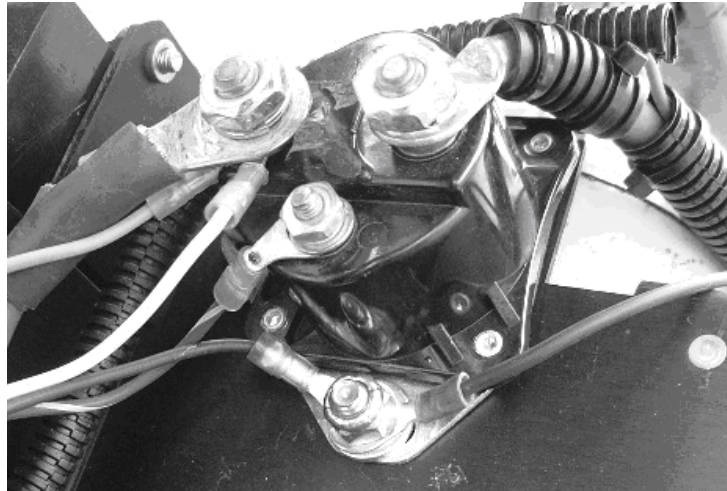


FIGURE 4

4. Locate the white motor current sensor connector (figure 5), push it through the cable access hole in bracket to get to other side of bracket. You will need to unplug the connector by pressing the locking latches to unlock and pull connector apart.



FIGURE 5

5. Disconnect the mount switch wires from the mount toggle switch by pulling the three female spade connectors off the switch terminals. Be careful to pull only on spade connector's body not on the wires. Remove the two philips head PCM mounting screws located at top of PCM, this will allow you to slide the PCM away from the valve block solenoids. Disconnect the five gray connectors from the five valve block solenoids, there is a locking latch on the side of connector that you will have to press while pulling on connector (figure 6).

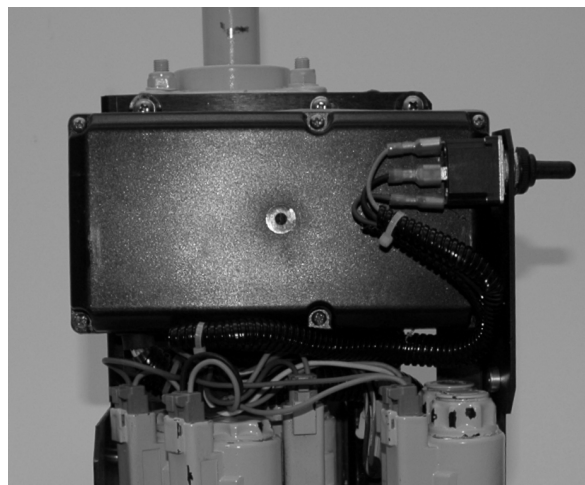


FIGURE 6

6. The PCM can now be completely removed from the hydraulic unit by sliding the large PCM cable through the cable access opening in bracket as shown (figure 7). **Do Not Discard.**

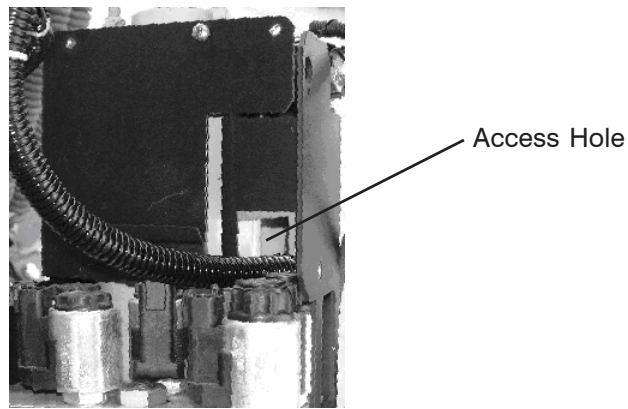


FIGURE 7

7. Using a 1/2" wrench or socket remove the large red and black wires and small red wire from the two motor studs. Retain nuts and washers they will be reused.
8. See Service Bulletin 214 for "B" Check Valve replacement.

ASSEMBLY INSTRUCTIONS

9. To attach the plow side harness 22694 connect the large red wire to the A2 Terminal of the motor and the large black wire to the D2 Terminal of the motor.
10. Route harness through bracket access hole (figure 7) and attach the 5 plugs from Xpress Plow Side Harness (3) to the solenoid coils as shown below (figure 8).

Color code of valve block assembly

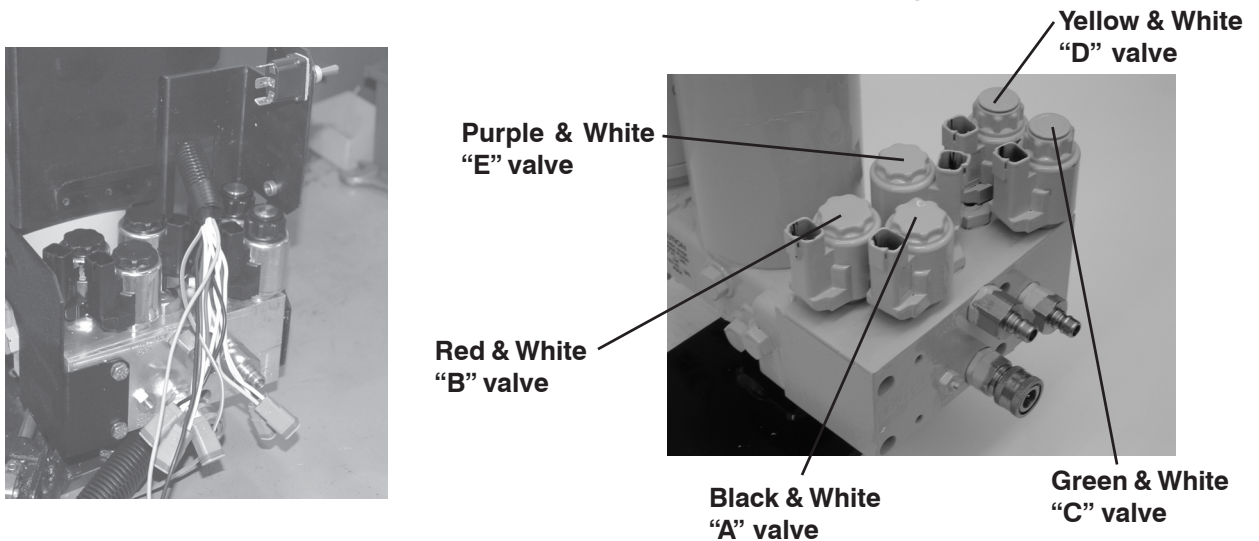


FIGURE 8

11. Attach the mounting switch wires from Xpress Plow Side Harness (3). Plug the Orange wire w/white stripe to top terminal, black wire to center terminal and gray wire to bottom terminal. As shown below (figure 9).

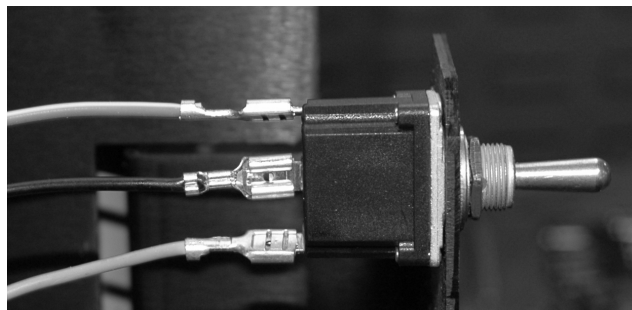


FIGURE 9

- Attach E-68 Serial Number Decal to the front cover mounting bracket on front of the unit and record new E-68 serial number and old E-88 Serial number. Route the harness as shown below in order to re-attach the cover (figure 10).

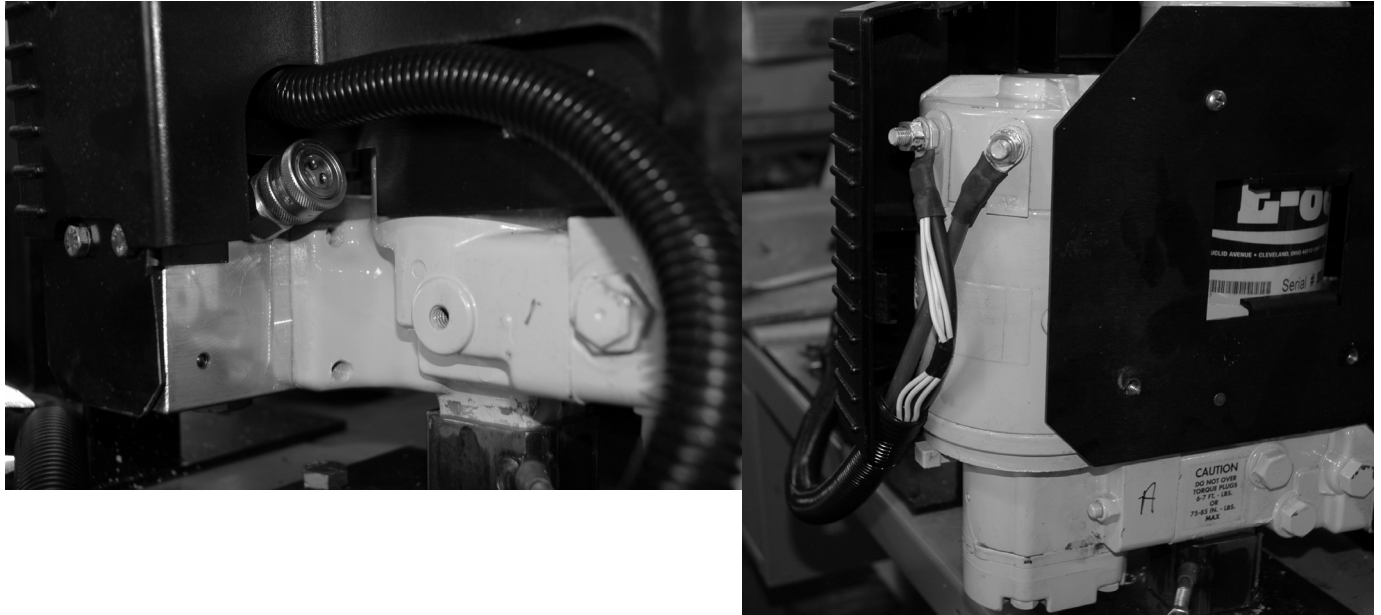


FIGURE 10

- Re-attach the front and rear covers in reverse of step 1 and install new E-68 label (22705) onto cover.
- Re-assemble E-68 unit to mount cylinder. **NOTE: Route hydraulic side harness (3) up and around the back side of the mount/dismount cylinder towards the driver's side of the vehicle. See figure 12.**
- Connect both male ends from the snow plow light to the female ends on the Plow Side Trailer Style Harness (3).
- Remove HCM (Headlight Control Module 22475) from vehicle along with the T-Adapter (extension for headlight adapter) and "B" Harness from vehicle. (See figure 11) **Do Not Discard.**
- Remove RCM (Remote Control Module 22473 or 08836) along with Fused "Y" Wire harness and Receiver Plug from vehicle. (See figure 11) **Do Not Discard.**

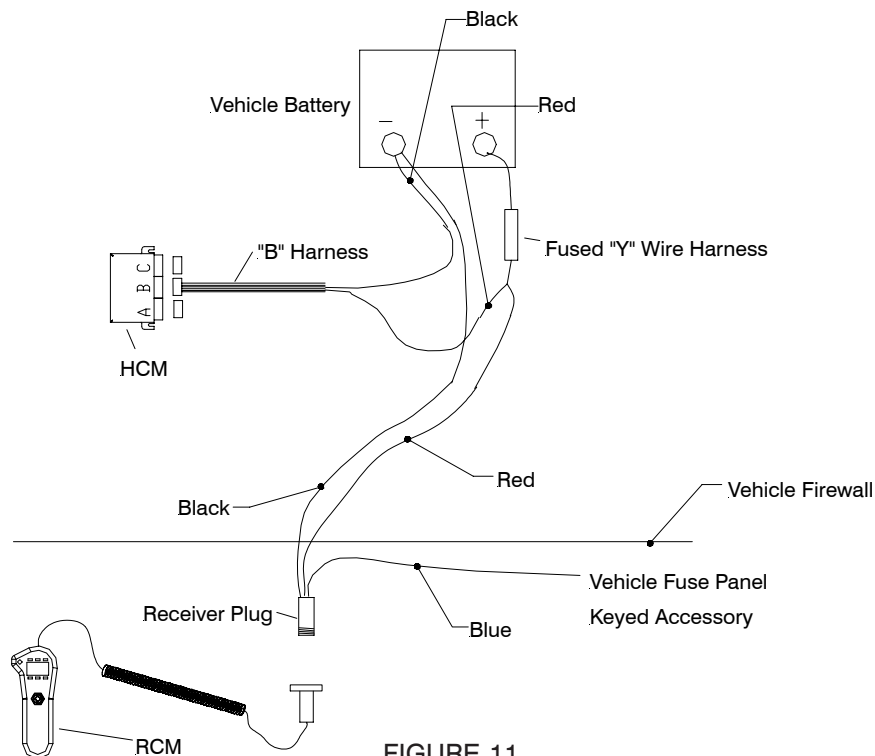


FIGURE 11

18. Route Truck Side trailer Style Harness (2) through the vehicle grill. Install Truck Side trailer Style Harness(2) to lift frame using Bolt H 5/16-18 x 1-1/4", 5/16" Flatwasher and 5/16-18 Locknut. Be certain to route all wiring around hot or moving engine parts, and any sharp sheet metal. Protection must be provided to guard against wire damage at these points. All excess or loose wire must be neatly secured using wire ties. Drill a 1/1/4" Diameter Hole thru firewall to extend the harness into the cab of the vehicle. Fused lead from Wiring Harness (2) must be attached to terminal in fuse panel that is activated only when the ignition key is "on."
19. Install Motor Solenoid (which was removed from E-88) to metal surface in engine compartment using Self Tapping Screws (7). (Solenoid must be grounded to operate). Attach Red Power Cable (2) to a large terminal on Motor Solenoid. Attach Black Ground Cable (2) to negative (-) terminal of battery. Attach Red Power Cable (1) to positive (+) terminal of battery and remaining large terminal on Motor Solenoid. Attach small white wire from harness (2) to small terminal on Motor Solenoid.
20. **Optional for ALM Mode:** Locate a vehicle reverse / brake light signal and connect to the Blue w/red stripe wire of the Harness (2) using a blue tap splice connector.

21. For snow plow light installation see separate instructions (Form 1-757).

Orange wire on Harness (2) will attach to both orange wires of the "B" harness supplied in the 07115 Control Module Carton.

Route Cables "C" (Yellow) from module to Harness (2). Connect both "C" Harness female ends to the male corresponding ends of the Harness (2).

Check snow plow light blinkers to make sure the wires have not been reversed.

Note: All electrical connections should have both ends coated with a dielectric grease prior to final installation. This will ensure a good connection and help in preventing corrosion.

Note: Some GM vehicles may require the addition of either the 07108 or the 07400 DRL Module.

Refer to Operation and Maintenance Manual - Form 4-545 for complete controller operation.

22. All items removed must be returned to the factory for warranty credit of the 08129 Upgrade Kit.

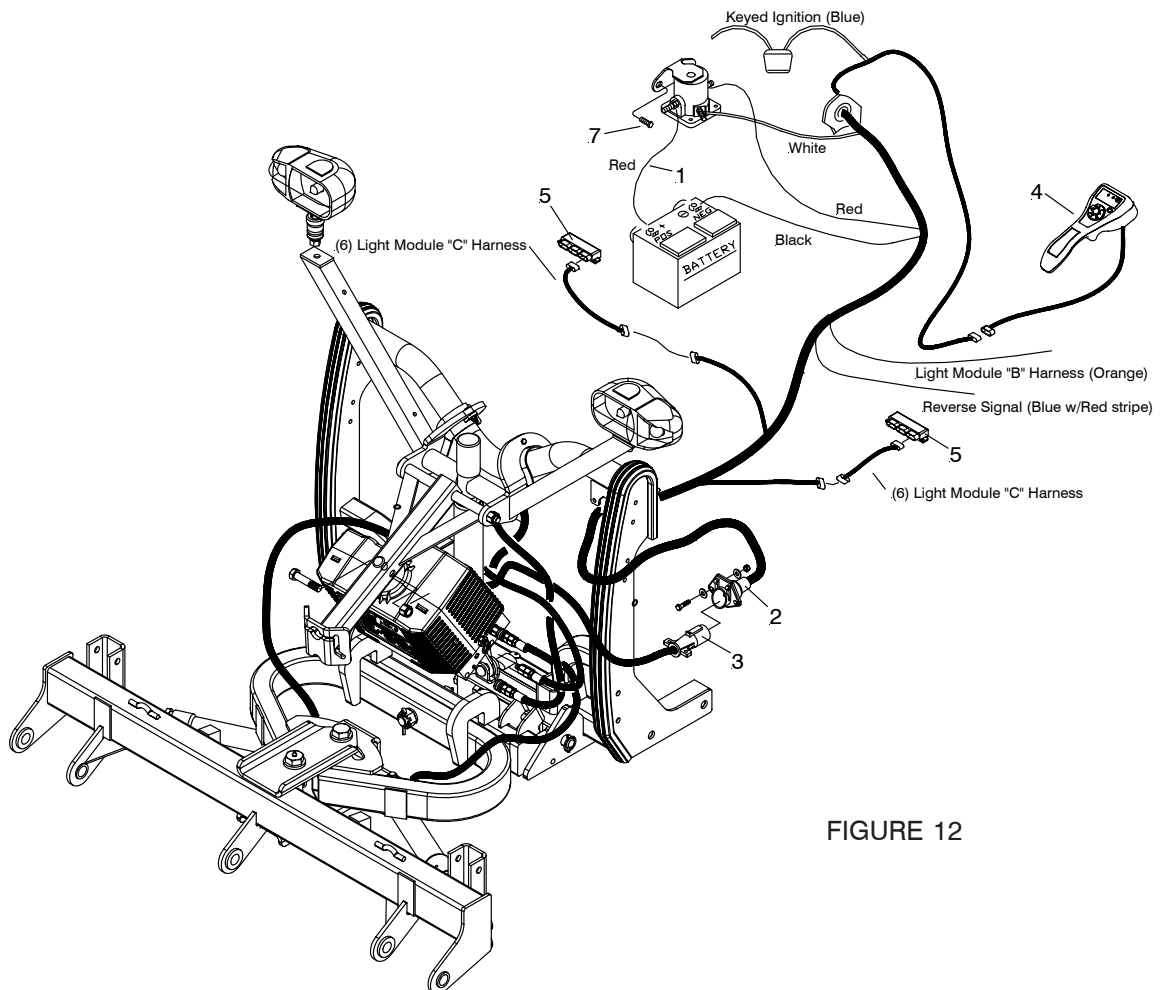


FIGURE 12