



Service Bulletin #83
SJ-800E Electric Cabinet Field Update Kit
*******SAFETY RELATED*******

December 13, 2000

Product Affected: SJ-800E

SJ-8831E

36496, 36528, 36555, 36667, 36668, 36921, 36922, 36923, 36924, 36945, 36951, 37090, 37091, 37092, 37105, 37121, 37122, 37123, 37124, 37125, 37126, 37144, 37145, 37146, 37147, 37148, 37149, 37150, 37151, 37152, 37158, 37177, 37178, 37192, 37216.

SJ-8841E

40664, 40665, 40666, 40675, 40676, 40710, 40711, 40724, 40725, 40738, 41073, 41074, 41075, 41076, 41077, 41078, 41092, 41093, 41094, 41114, 41115, 41116, 41137, 41138, 41139, 41147, 41148, 41149, 41150, 41163, 41164, 41165, 41172, 41173, 41187, 41188, 41189, 41200, 41201, 41202, 41212, 41213, 41214, 41256, 41257, 41268, 41305, 41318, 41341, 41419, 41438, 41439, 41465, 41486, 41487, 41488, 41489, 41504, 41520, 41525, 41669, 41670, 41722, 41754, 41755, 41756, 41757, 41777, 41778, 41806, 41859, 41860, 41861, 41862, 41863, 41888, 41889, 41890, 41891, 41892, 41906, 41978, 42046, 42098, 42152, 42153, 42167, 42187, 42188, 42199, 42200, 42201, 42202, 42229, 42230, 42231, 42232, 42233, 42256, 42257, 42258, 42303, 42304, 42305, 42322, 42323, 42324, 42325, 42338, 42339, 42340, 42341, 42356, 42357, 42358, 42401, 42432, 42433, 42434, 42442.

Introduction:

To ensure the safety of our customers and yours, we require that the following repair for SJ-800E machines listed above be completed. Therefore it is imperative that this bulletin be completed immediately. Please follow the instructions included to complete this repair.

Procedure:

Follow the attached procedure.

Parts and Warranty Policy:

Upon completion, send in a warranty claim form for each machine, stating this Service Bulletin #83 has been completed.

Skyjack Inc. will supply the required parts. Skyjack Inc. will also pay 3 hours of labor and up to 4 hours of travel time for this bulletin.

**Ownership of Machines:**

If you have sold or transferred SJ-800E machine(s) with the serial numbers listed above, it is your responsibility to forward this service bulletin to the current owner and to notify Skyjack Inc.

Contact Information:

We regret the inconvenience and appreciate your cooperation. If you have any questions please call Skyjack Service at **800-275-9522** or **630-262-0005**. You can e-mail any questions to service@skyjackinc.com

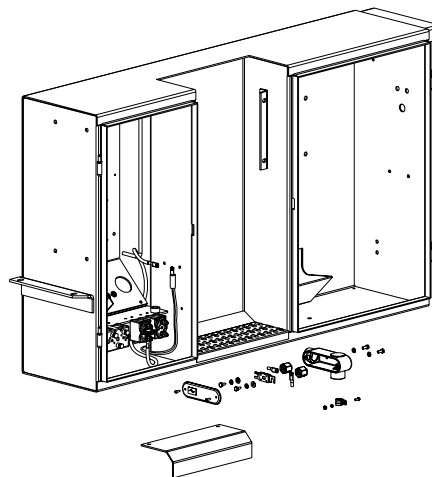


50 AMP FUSE INSTALLATION PROCEDURE

Part Number 124630AB

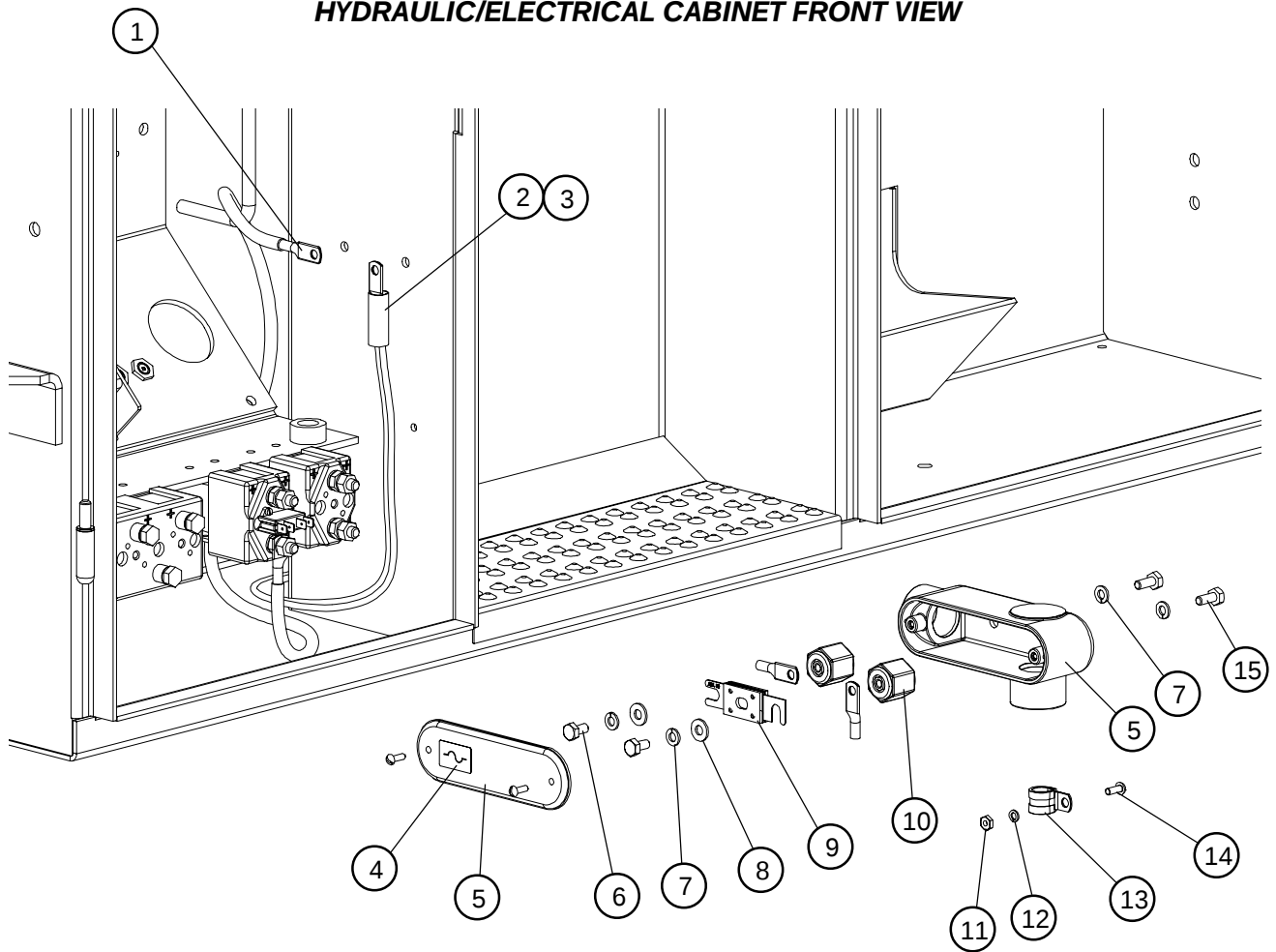
SJ800E & SJ800E EE Rated Machines

READ INSTRUCTIONS PRIOR TO INSTALLATION

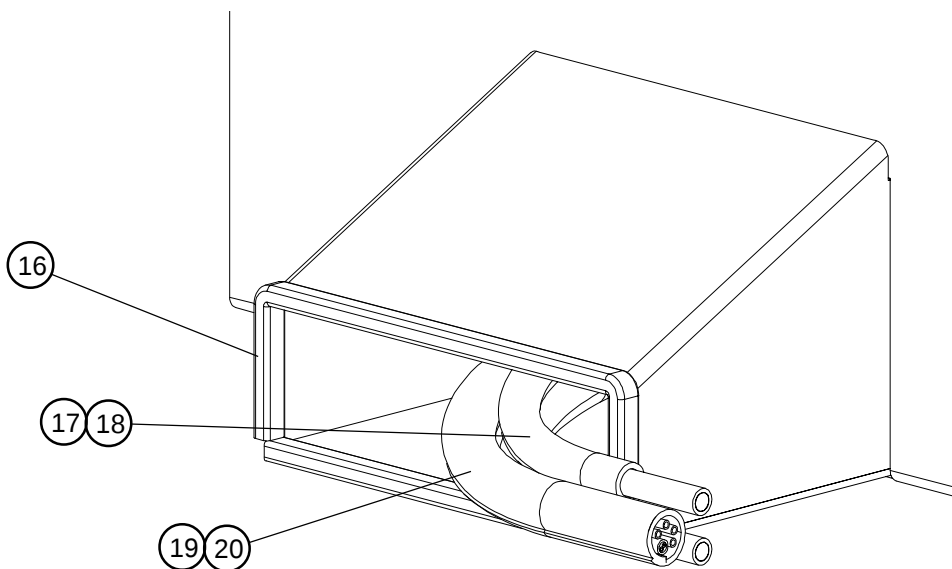


INSTALLATION KIT INVENTORY

HYDRAULIC/ELECTRICAL CABINET FRONT VIEW



HYDRAULIC CABINET REAR VIEW



INSTALLATION KIT INVENTORY

Item	Part #	Description	Quantity
1	124521	CABLE, #6 GA. 1/4 L x 30" x 5/16	1
2	124515	TERMINAL, #6 GA. 1/4 long	1
3	103754	HEATSHRINK, 1/2 Dia Clear	5"
4	119915	LABEL, Fuse	1
5	119815	BOX, Fuse	1
6	103855	BOLT, Hex head 1/4 - 20 Grade 5 x .5	2
7	104000	WASHER, Lock 1/4 NOM x 0.06	4
8	103995	WASHER, Flat 1/4 S.A.E.	2
9	120302	FUSE, 50 AMP	1
10	103068	INSULATOR, Fuse	2
11	104003	NUT, Machine #10 - 32 Grade B	1
12	104185	WASHER, Lock #10 NOM	1
13	103024	CLIP, Single G8	1
14	103962	SCREW, Machine #10 -32 x 0.5 SOC RD HD	1
15	103892	BOLT, Hex head 1/4 - 20 Grade 5 x 0.625	2
16	117398	TRIM, Protective	25.5"
17	103090	PROTECTOR, Wire bl 3/4"	36"
18	102892	TIEWRAP, Cable 5 5/8" black	30
19	103092	PROTECTOR, Wire bl 1"	108"
20	114386	TIEWRAP, Cable 14 5/8" black	12

INSTALLATION PROCEDURE:



Read all instructions closely before attempting each step of the installation.

NOTE

SJ800E EE Rated Machines Follow steps 1, 2, 13, 22 and 23 only.

Step 1. Park the machine on a level surface, with brake engaged and the wheels chocked.

Step 2. Lockout the Main Disconnect handle.

Step 3. Locate and drill two 9/32" Dia. holes for the fuse box and one 7/32" Dia. hole for the wire clip. Deburr the holes and clean away any metal cuttings that have landed in or on the Electric Cabinet **(Refer to Figure 1-1).**

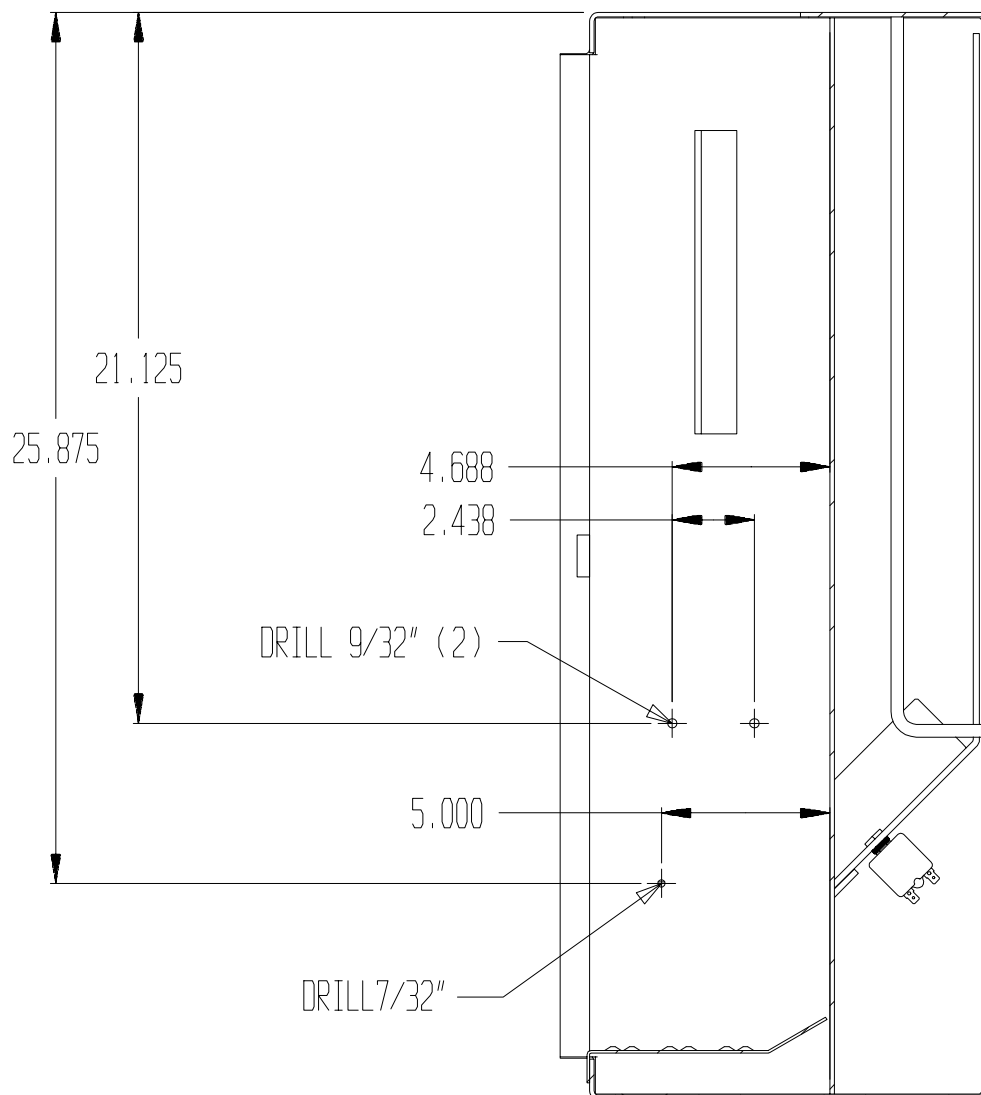


Figure 1-1

INSTALLATION PROCEDURE:

Step 4. Undo the two quarter-turn fasteners and remove the Lexan Contactor Cover (**Refer to Figure 1-2**).

Step 5. Locate the two Black 10 Ga. Battery Charger wires connected to the Ground Isolation Puck and remove them. (**Refer to Figure 1-2**).

NOTE

Temporarily reattach any of the wires that were taken off when removing the two Black 10 Ga. Battery Charger wires. This will prevent these wires from being pulled away out of sight and misplaced later causing machine to malfunction.

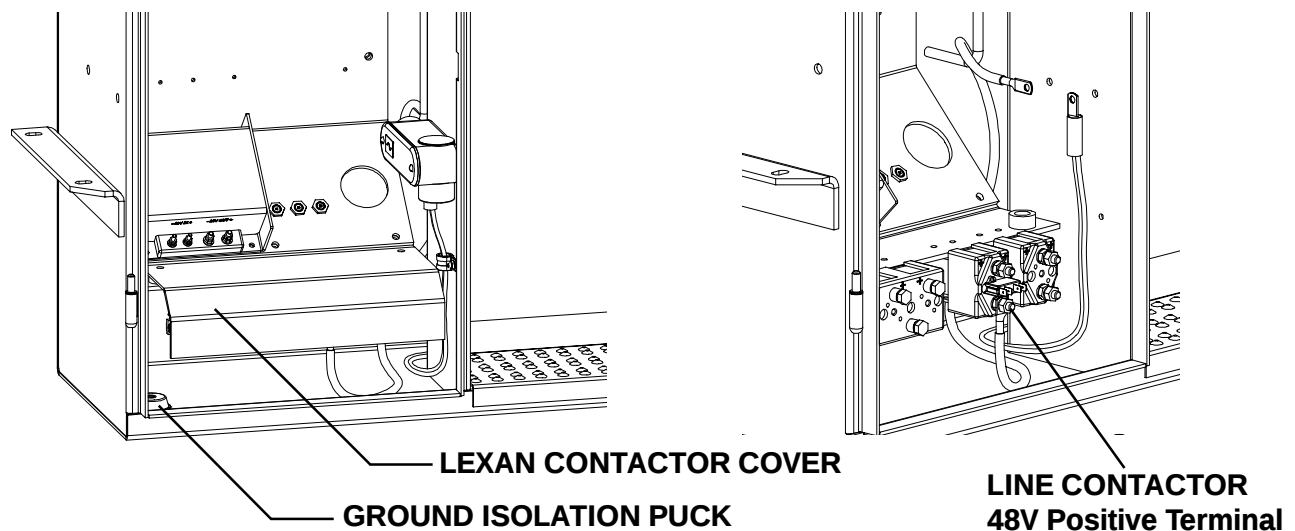


Figure 1-2

Step 6. Locate the two Red 10 Ga. Battery Charger wires connected to the Line Contactor 48V Positive Terminal and remove them (**Refer to Figure 1-2**).

NOTE

Temporarily reattach any of the wires that were taken off when removing the two Red 10 Ga. Battery Charger wires. This will prevent these wires from being pulled away out of sight and misplaced later causing machine to malfunction.

INSTALLATION PROCEDURE:

Step 7. Locate the DC-DC Converter. Find the wire #03 of the Charger Interlock Harness, attached to the "48V IN +" terminal, and remove it (**Refer to Figure 1-3**).

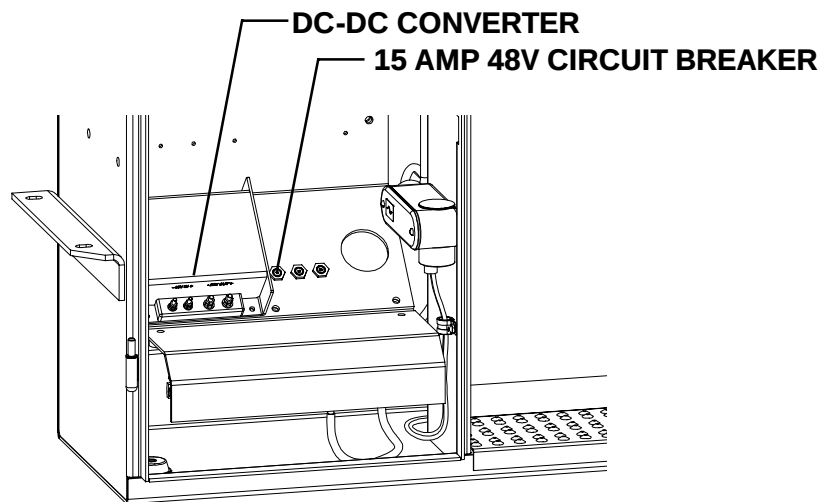


Figure 1-3

NOTE

Temporarily replace the nut so it will not be lost.

Step 8. Reach underneath the Line Contactor. Pull the #03 wire through the rubber grommet and follow along the back to where it meets the other wire, #01 from the 18/2 cable of the Charger Interlock Harness. Then follow the #01 wire, of the Charger Interlock Harness, forward to the 15 Amp, 48V circuit breaker and disconnect it from the circuit breaker (**Refer to Figure 1-4**).

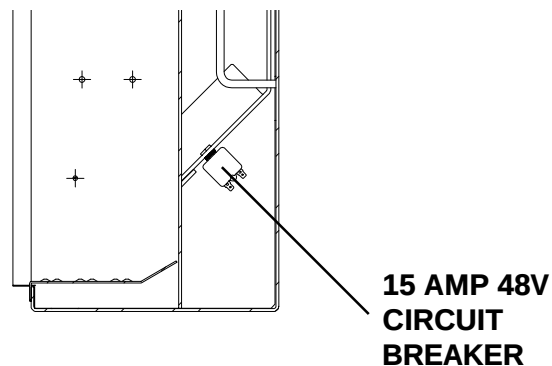


Figure 1-4

Step 9. Gently pull the two black, the two Red 10 Ga. Battery Charger wires and the 18/2 Charger Interlock Harness into the Hydraulic Cabinet.

Step 10. Walk around the machinery to the Battery Charger Cabinet. Go into the cabinet and unplug the two red 50 Amp Charger connectors and also unplug the two small 2 pin white Charger Interlock connectors from the back of the two chargers.

INSTALLATION PROCEDURE:

Step 11. Crawl under the machine. Locate the two Black, the two Red 10 Ga. Battery Charger wires and the 18/2 Charger Interlock harness, that run between the Hydraulic Cabinet and the Battery Charger Cabinet. Remove these wires from the machine by cutting any tie wraps necessary **(Refer to Figure 1-5).**

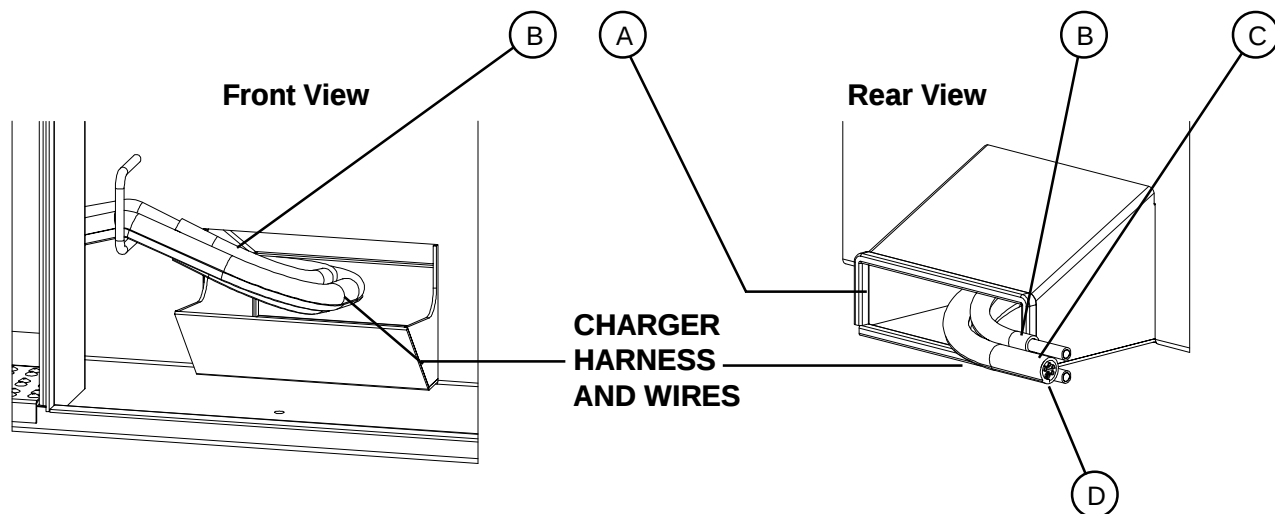


Figure 1-5

- A - DO NOT CUT THE EDGE GUARD. BEFORE INSTALLING THE EDGE GUARD, APPLY A CONTINUOUS BEAD OF SILICONE CAULKING DOWN INSIDE THE WHOLE LENGTH OF THE EDGE GUARD. PUSH ON THE EDGE GUARD BENDING IT AROUND EACH CORNER, STARTING AND FINISHING AT THE LOWER LEFT HAND CORNER.**
- B - THE TWO ENDS OF THE TWO 18" PIECES OF SPLIT TUBING EXTENDS OUT PAST THE CABINET ENTRY TUBE.**
- C - THE CHARGER AND THE CHARGER INTERLOCK WIRES ARE TO BE COVERED WITH SPLIT TUBING OVER THEIR ENTIRE LENGTHS STARTING FROM INSIDE THE BATTERY CHARGER CABINET.**
- D - THE SPLIT TUBE MUST OVERLAP ONTO ITSELF AND THEN IT IS HELD IN POSITION WITH TIE WRAPS.**

INSTALLATION PROCEDURE:

Step 12. Install the 108" piece of 1" I.D. split tubing over the two Black, the two Red 10 Ga. Battery Charger wires and the 18/2 Charger Interlock Harness (**Refer to Figure 1-6**).

NOTE

The split tube must overlap onto itself and then it is held in position with the tie wraps provided.

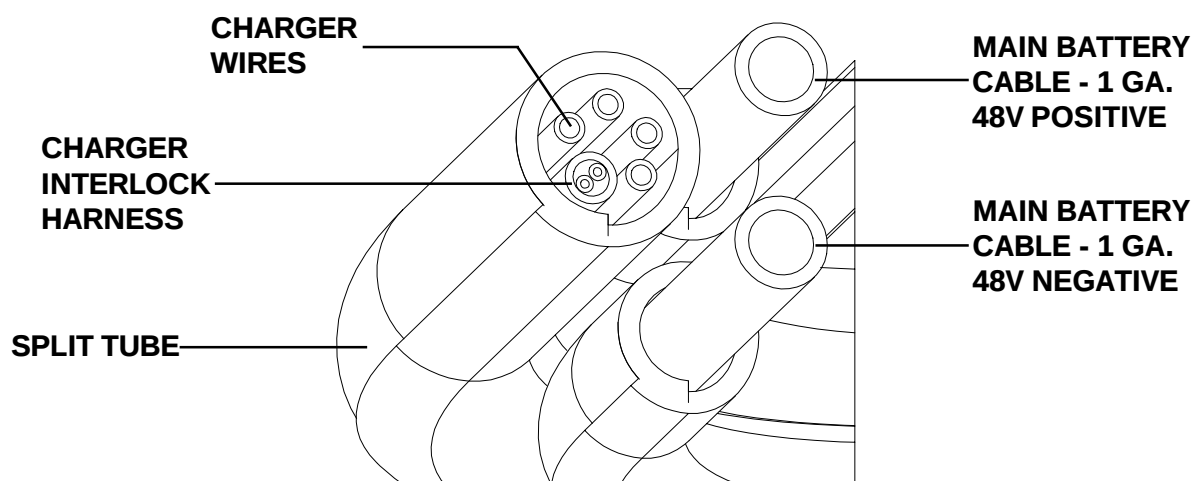


Figure 1-6

Step 13. Locate the 1 Ga. 48V Positive and the 1 Ga. 48V Negative Main Battery Cables where they pass through the Cabinet Entry Tube. Install an 18" piece of 3/4" I.D. split tubing over each cable. Each piece of split tubing should be centered on the Battery Cable so that the ends of the split tubing extends past the edges of the Cabinet Entry Tube equally. (**Refer to Figure 1-6**)

NOTE

The split tube must overlap onto itself and then be held in position with the tie wraps provided.

Step 14. Install the fuse box and the two fuse insulators with the hardware provided. (**Refer to Figure 1-7**)

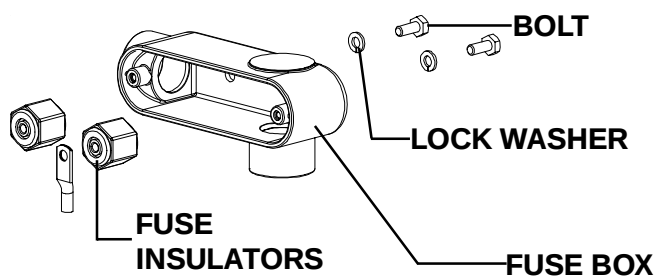


Figure 1-7

INSTALLATION PROCEDURE:

Step 15. Install the Battery Cable from the Line Contactor 48V Positive Terminal looping over the cablecarrier in the cabinet to the rear fuse insulator in the fuse box **(Refer to Figure 1-8).**

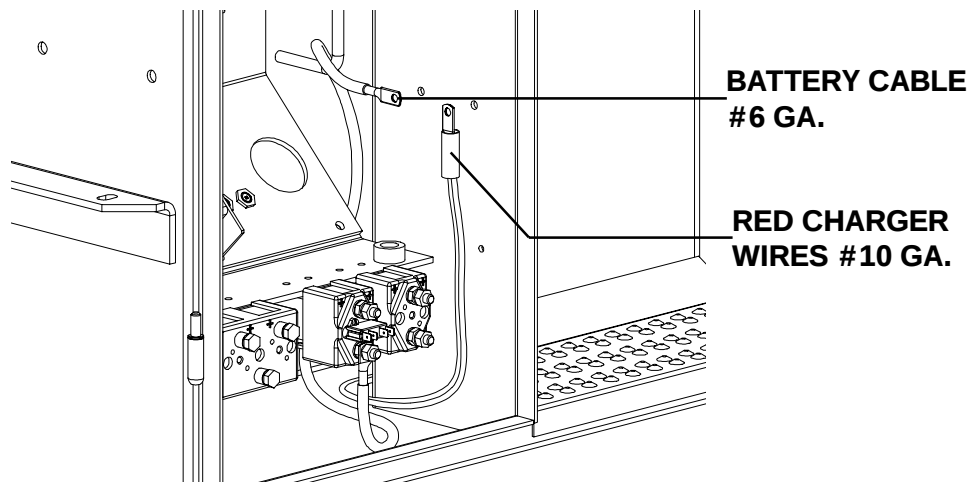


Figure 1-8

Step 16. Reroute the newly covered Charger Harness **(See step 12)** back through the machine. Reconnect the following:

- The two red 50 Amp Charger Connectors.
- The two small white 2 pin Charger Interlock connectors on the back of the chargers.
- The #01 wire, of the Charger Interlock Harness, to the 15 Amp, 48V circuit breaker.
- The #03 wire, of the Charger Interlock Harness, to the DC-DC Converter at the "48V IN+" terminal.
- The two Black 10 Ga. Battery Charger wires to the Ground Isolation Puck.
- The two Red 10 Ga. Battery Charger wires to the front fuse insulator in the fuse box **(Refer to Figure 1-8).**

NOTE

Cut the two Yellow 5/16" diameter ring terminals off of the two Red 10 Ga. Battery Charger wires. Crimp the two wires into the 6 Ga. Battery Lug and cover with heat shrink.

NOTE

Re-tie wrap all of the hydraulic hoses and other wires that run between the Battery Charger Cabinet and the Hydraulic Cabinet.

INSTALLATION PROCEDURE:

Step 17. Install the 50 Amp fuse on top of the battery lugs with the hardware provided. (Refer to Figure 1-9).

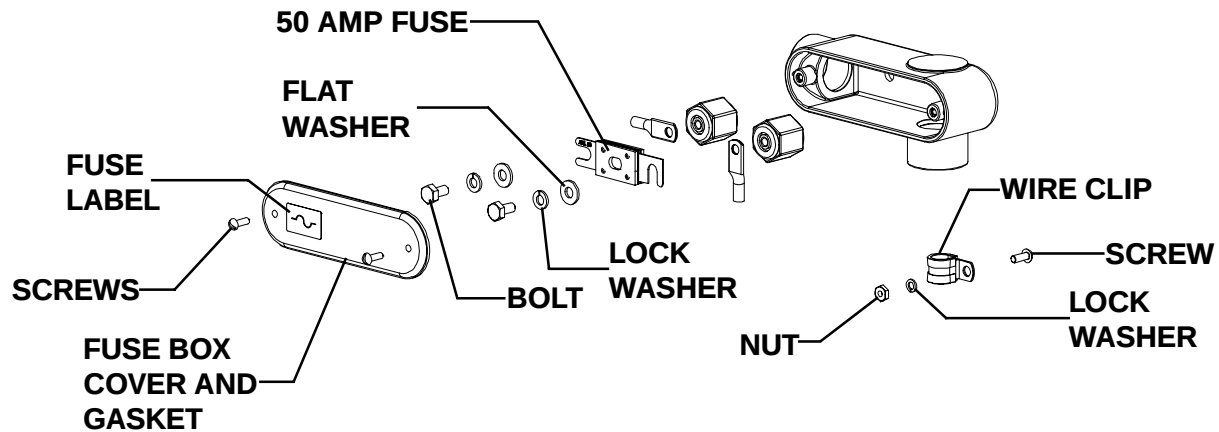


Figure 1-9

Step 18. Install the fuse box lid and stick the fuse label on the lid as shown (Refer to Figure 1-9).

Step 19. Install the wire clip below the fuse box around the two red 10 Ga. Battery Charger wires with the hardware provided (Refer to Figure 1-9).

Step 20. Double check that all connections are tight.

Step 21. Replace the Lexan Contactor Cover and tighten the two quarter-turn fasteners.

Step 22. Install the Edge Guard around the rear opening of the cabinet Entry Tube (Refer to Figure 1-10).

NOTE

Do not cut the Edge Guard. Before installing the Edge Guard, apply a continuous bead of silicone caulking down inside the whole length of the Edge Guard. Push on the Edge Guard bending it around each corner, starting with the lower left hand corner.

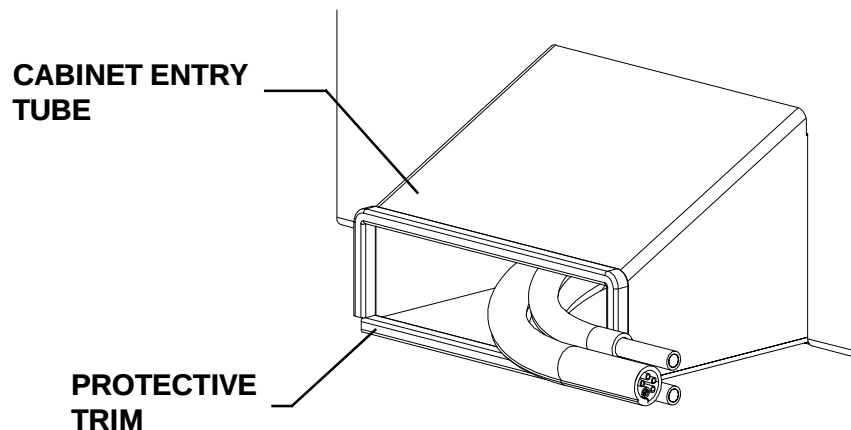


Figure 1-10

Step 23. Reconnect the Main Disconnect and perform a function check.