110 VOLT TRANSFER SWITCH INSTALATION

AMBULANCE TYPE: CRESTLINE SINGLE STRETCHER

UNITS AFFECTED: ALL CRESTLINE SINGLE STRETCHER UNITS EQUIPPED WITH THE STRYKER POWERPRO STRETCHER

ISSUE: To provide 110V power to the internal receptacles of the ambulance from shoreline power or the Go Power inverter, to facilitate charging of the Stryker PowerPro Stretcher battery.

ACTION: INSTALLATION OF AN 110V TRANSFER SWITCH

LABOUR TIME: 1.5 hrs **LABOUR CODE:** **GMOTS**

SERVICE PROCEDURE:

Please read through this modification entirely before starting modification.

Contact BCAS Fleet Operations if there are any questions or concerns.

1-877-652-7465

Check contents of kit provided.

- 2 Marrets - 110V connectors
- 1 female 110V plug
- 6 Self tapping screws #10 x 5/8
- 2 Cover Screws #10-32 x 5/8
- 2 cable clamps
- 3 Zap straps
- Mounting Bracket – Crestline
- Transfer Switch
- Plastic hole plug

BEFORE STARTING THIS MODIFICATION:

Confirm 110 volt power is not connected to the ambulance shoreline power and the engine is switched off.

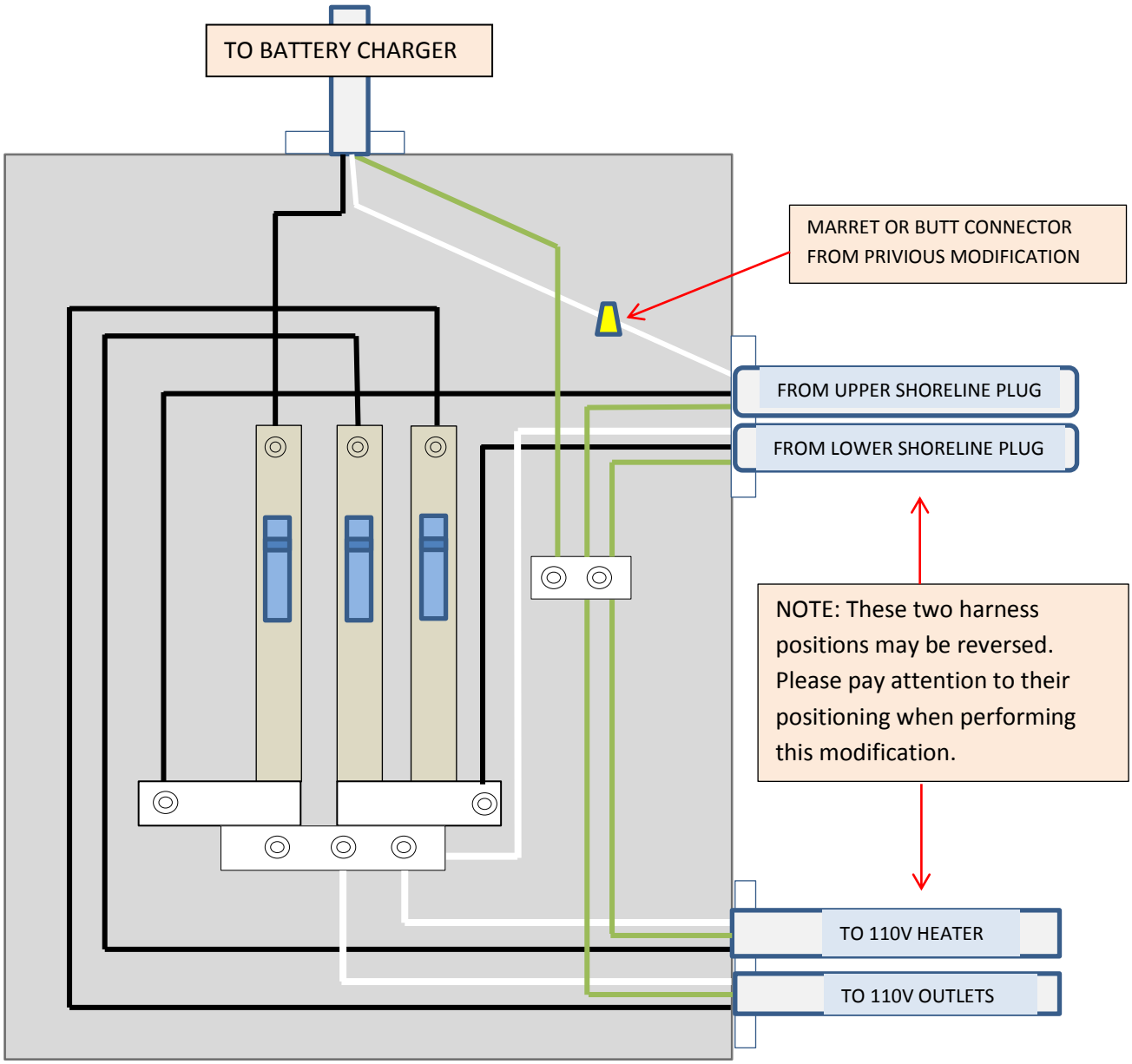
LOCATE THE 110 VOLT BREAKER BOX IN THE ELECTRICAL COMPARTMENT

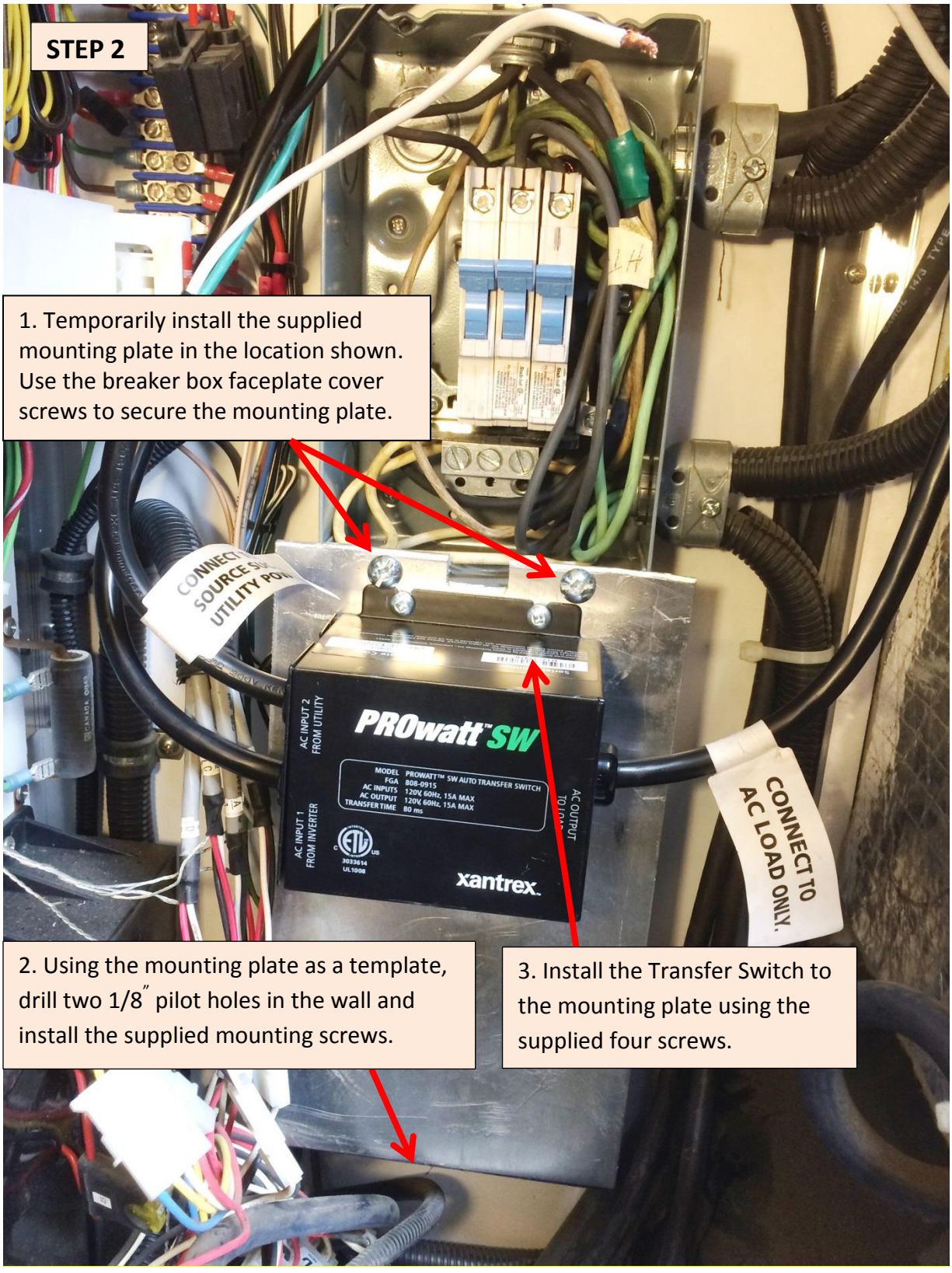
STEP 1:

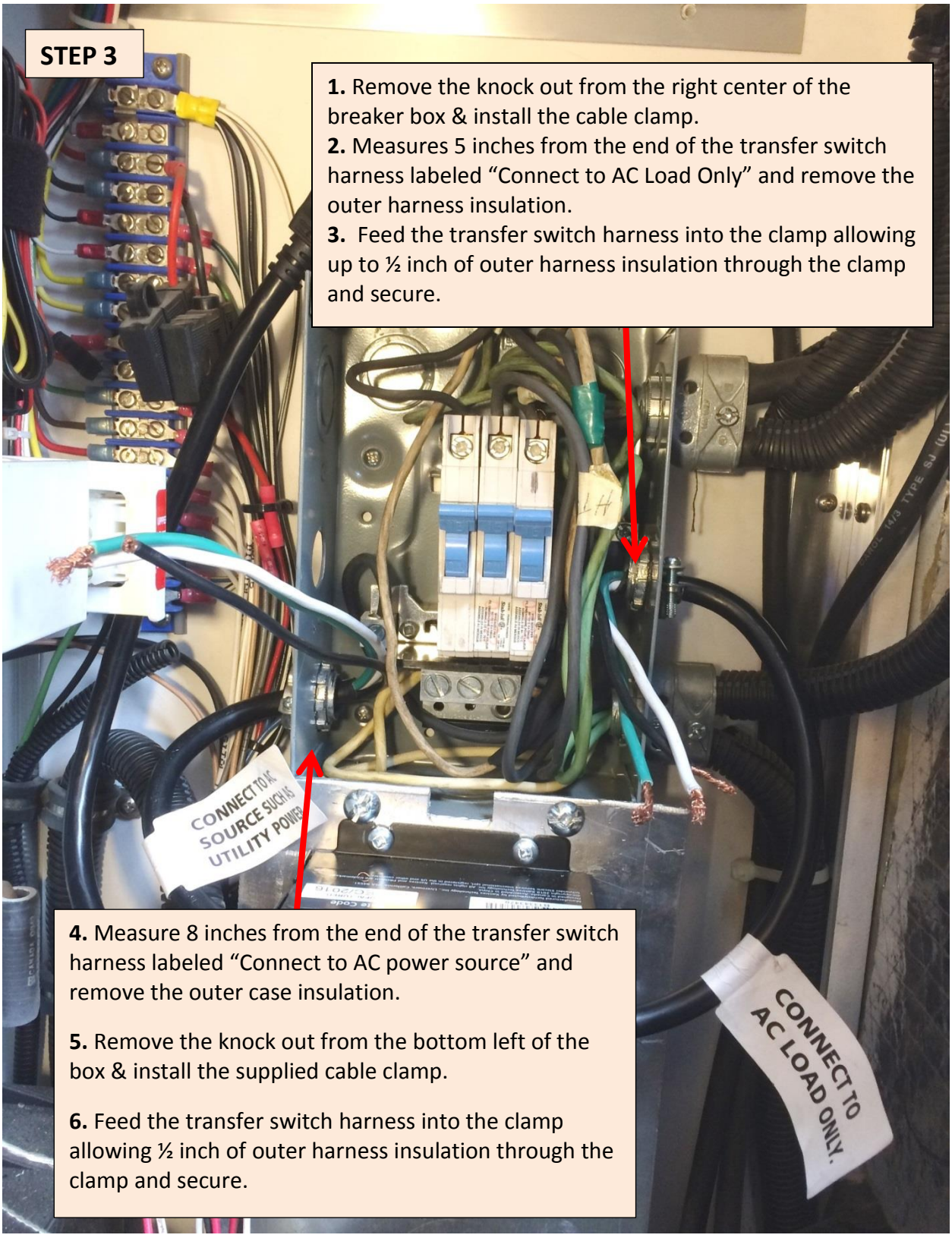
Remove the cover from the 110V breaker box and compare the wiring with the diagram below.

IMPORTANT!

Confirm existing wiring configuration before continuing.

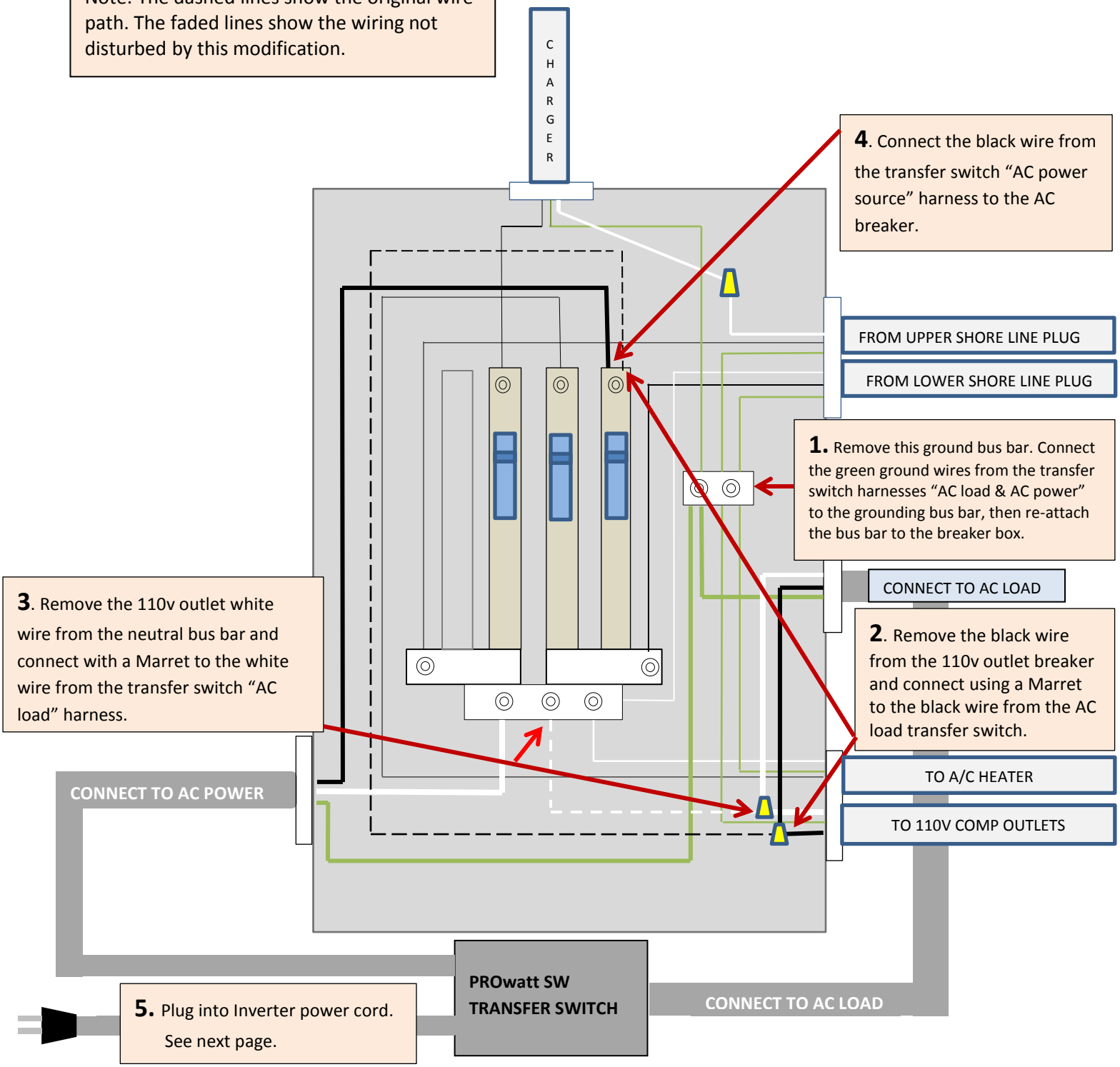



STEP 2
1. Temporarily install the supplied mounting plate in the location shown. Use the breaker box faceplate cover screws to secure the mounting plate.
PROwatt SW
xantrex
CONNECT TO AC LOAD ONLY.
2. Using the mounting plate as a template, drill two 1/8" pilot holes in the wall and install the supplied mounting screws.
3. Install the Transfer Switch to the mounting plate using the supplied four screws.


STEP 3
1. Remove the knock out from the right center of the breaker box & install the cable clamp.
2. Measures 5 inches from the end of the transfer switch harness labeled “Connect to AC Load Only” and remove the outer harness insulation.
3. Feed the transfer switch harness into the clamp allowing up to ½ inch of outer harness insulation through the clamp and secure.
CONNECT TO AC SOURCE SUCH AS UTILITY POWER
4. Measure 8 inches from the end of the transfer switch harness labeled “Connect to AC power source” and remove the outer case insulation.
5. Remove the knock out from the bottom left of the box & install the supplied cable clamp.
6. Feed the transfer switch harness into the clamp allowing ½ inch of outer harness insulation through the clamp and secure.
CONNECT TO AC LOAD ONLY.

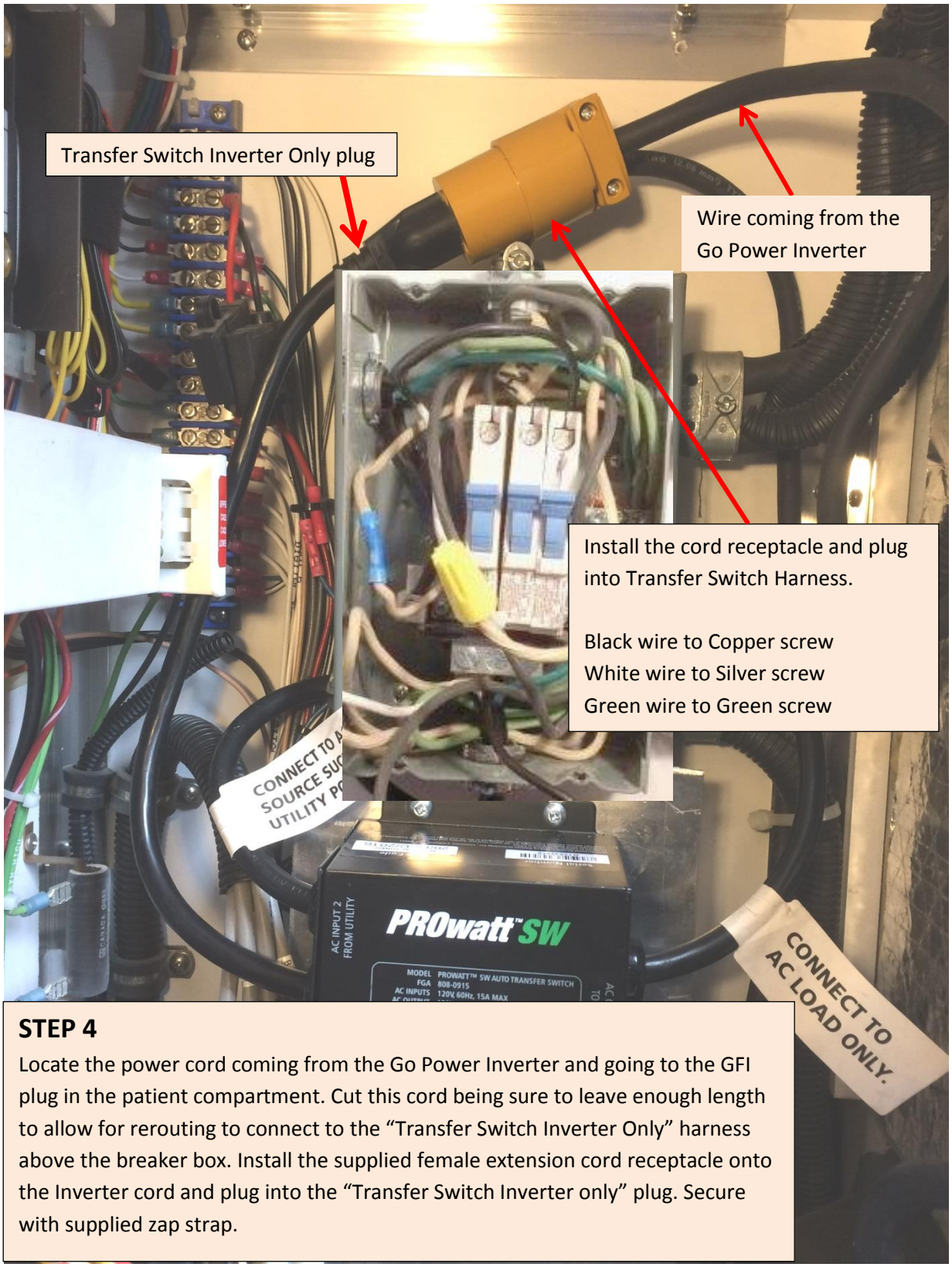
STEP 3:
INTERNAL WIRING CONNECTIONS
Follow the numbered steps in order.
Note: The dashed lines show the original wire path. The faded lines show the wiring not disturbed by this modification.

Twist all wire connections before Marrets are installed, then wrap with electricians tape.



BC Ambulance Service, Fleet Operations
Block C, 2261 Keating X Road

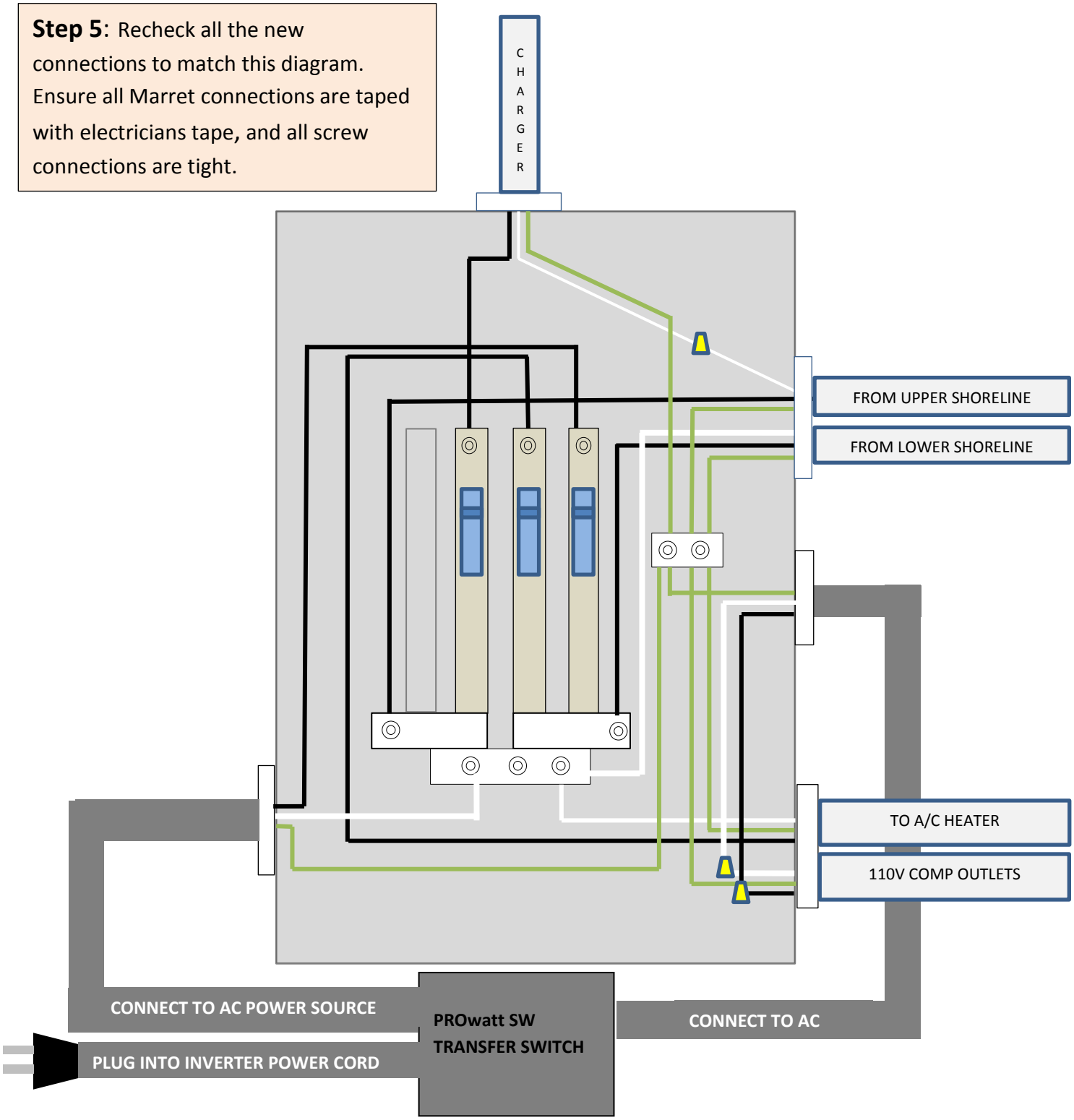
1 877 652-7465
Fax: 250 952-0275



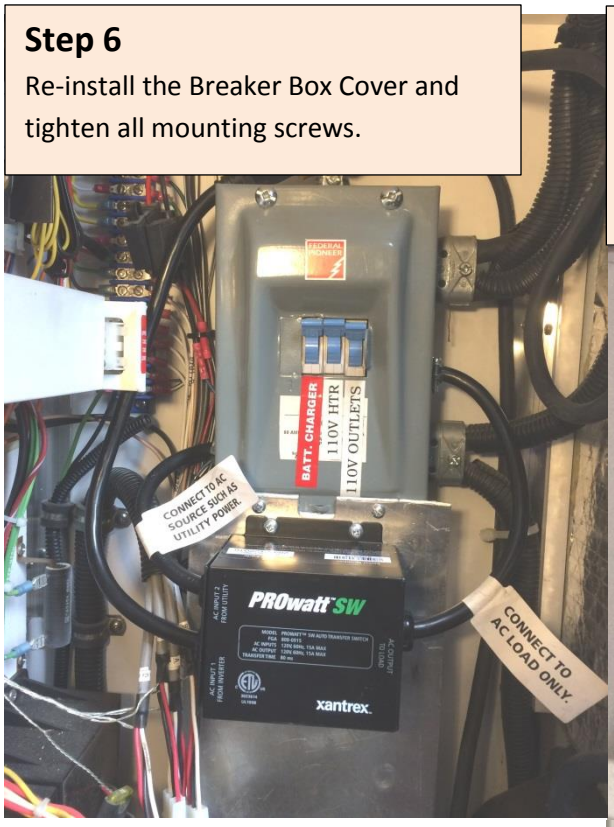
STEP 4

Locate the power cord coming from the Go Power Inverter and going to the GFI plug in the patient compartment. Cut this cord being sure to leave enough length to allow for rerouting to connect to the “Transfer Switch Inverter Only” harness above the breaker box. Install the supplied female extension cord receptacle onto the Inverter cord and plug into the “Transfer Switch Inverter only” plug. Secure with supplied zap strap.

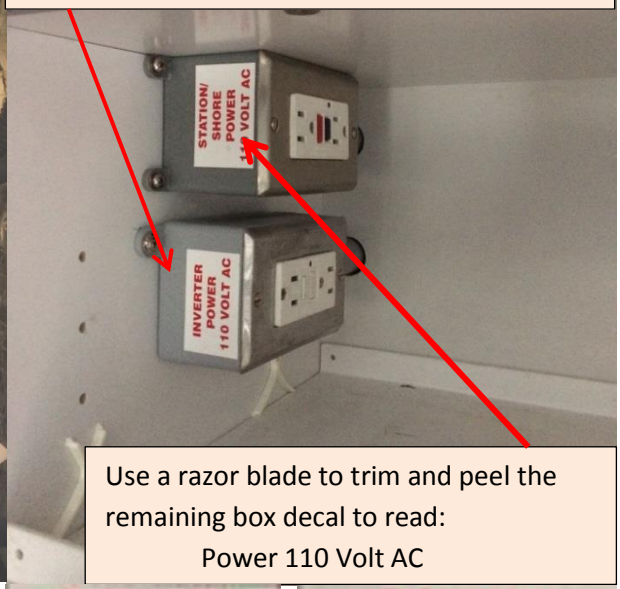
Step 5: Recheck all the new connections to match this diagram. Ensure all Marret connections are taped with electricians tape, and all screw connections are tight.



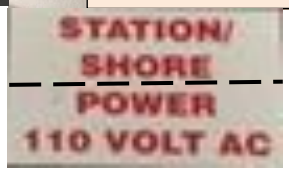
Step 6
Re-install the Breaker Box Cover and tighten all mounting screws.

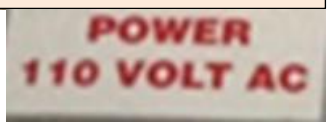


Step 7
In the patient compartment, remove the lower box labeled “Inverter Power”. Pull the power cord wire out with the box and recycle both. Install supplied hole plug with silicone.



Use a razor blade to trim and peel the remaining box decal to read:
Power 110 Volt AC





System Test:

Using a GFI protected circuit; plug a shoreline power cord into the lower 110V shore power receptacle on the outside of the ambulance.

Plug an 110V tester into each of the patient compartment 110 volt outlets – power should be present. Note: *There is a second outlet located in the kit tree.*

Start the engine and turn the connect switch on. Unplug the shore power from the outside of the ambulance.

Confirm the 110V outlets in the patient compartment still have power.

Labour Code: GMOTS – use this labour code on the invoice and charge 1.5 hrs.