

# Installation Instructions

For IEB charger Kits

K-957937, K957938, K-957939,  
K-957937-S, K-957938-S and  
K-957939-S

# Kits Include



| PART #                                     | DESCRIPTION                                 | QTY. | UNIT |
|--------------------------------------------|---------------------------------------------|------|------|
| 172590                                     | PLATE, MTG, CHARGER, IEB (USED IN ALL KITS) | 1    | EA   |
| 711133                                     | SCR-PHMS 8-32 X .37 ZP                      | 4    | EA   |
| 712596                                     | SCR-PHMS 10-24 X .37 ZP                     | 2    | EA   |
| 172180-2                                   | MTG, LED INDICATOR, IEB                     | 1    | EA   |
| 172591                                     | TENSION BAND, IEB                           | 1    | EA   |
| 172190                                     | NUT-NYLON LOCKNUT, 3/8 NPT                  | 1    | EA   |
| 172593                                     | MOUNTING PLATE (SPORT KITS ONLY)            | 1    | EA   |
| ONE OF THE FOLLOWING CHARGERS IS INCLUDED. |                                             |      |      |
| DEPENDING ON KIT NUMBER ORDERED            |                                             |      |      |
| 957937                                     | CHARGER, 155-193AH, WET                     | 1    | EA   |
| 957938                                     | CHARGER, 102-135AH, AGM                     | 1    | EA   |
| 957939                                     | CHARGER, 115-143AH, WET                     | 1    | EA   |

## Additional Items Needed



- Hot glue or super glue is required, when installing the chargers LED.
- Screw drivers
- Wrenches
- Socket set
- Electric drill
- Drill bit .594" (when replacing the Lester Prime Charger)

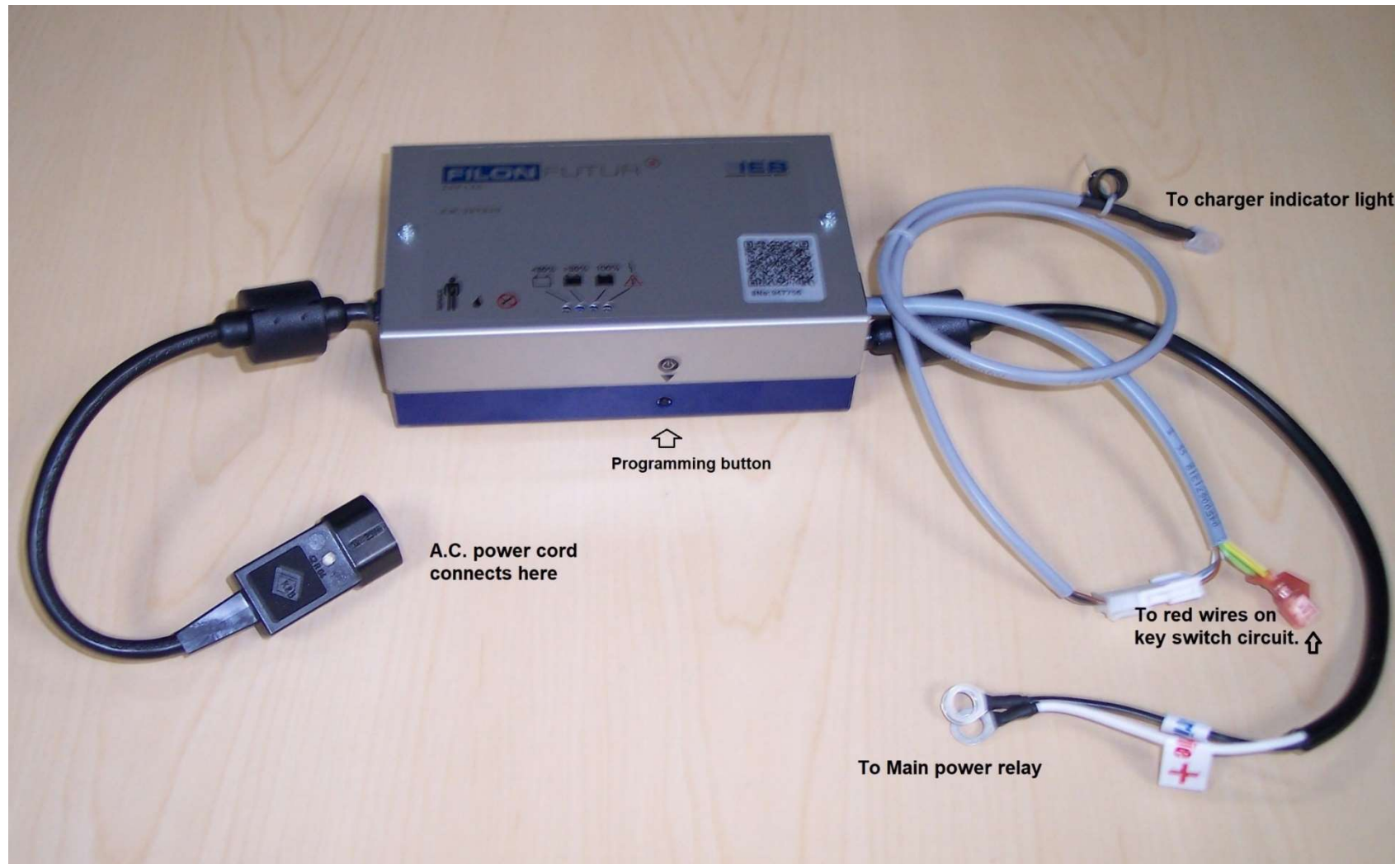
# Getting Started



- Disconnect the batteries from the machine.
- Remove the black plastic knob on the squeegee lift lever.
- Disconnect the D-hook on squeegee lift cable from the black rubber strap located near the squeegee assembly.
- Carefully remove the rear panel.
- Unplug the charger LED and key switch plug.
- Remove the original charger power cord from the panel.
- Remove the original battery charger.

# Electrical Connections

**Minuteman**<sup>®</sup>  
Excellence Meets Clean



## Remove the original charger



The IEB charger kits can be used, when replacing older chargers such as Signet or the Lester Prime. (shown below).



Signet Charger (957761)



Lester Prime Charger

# Mounting the Charger (all versions)



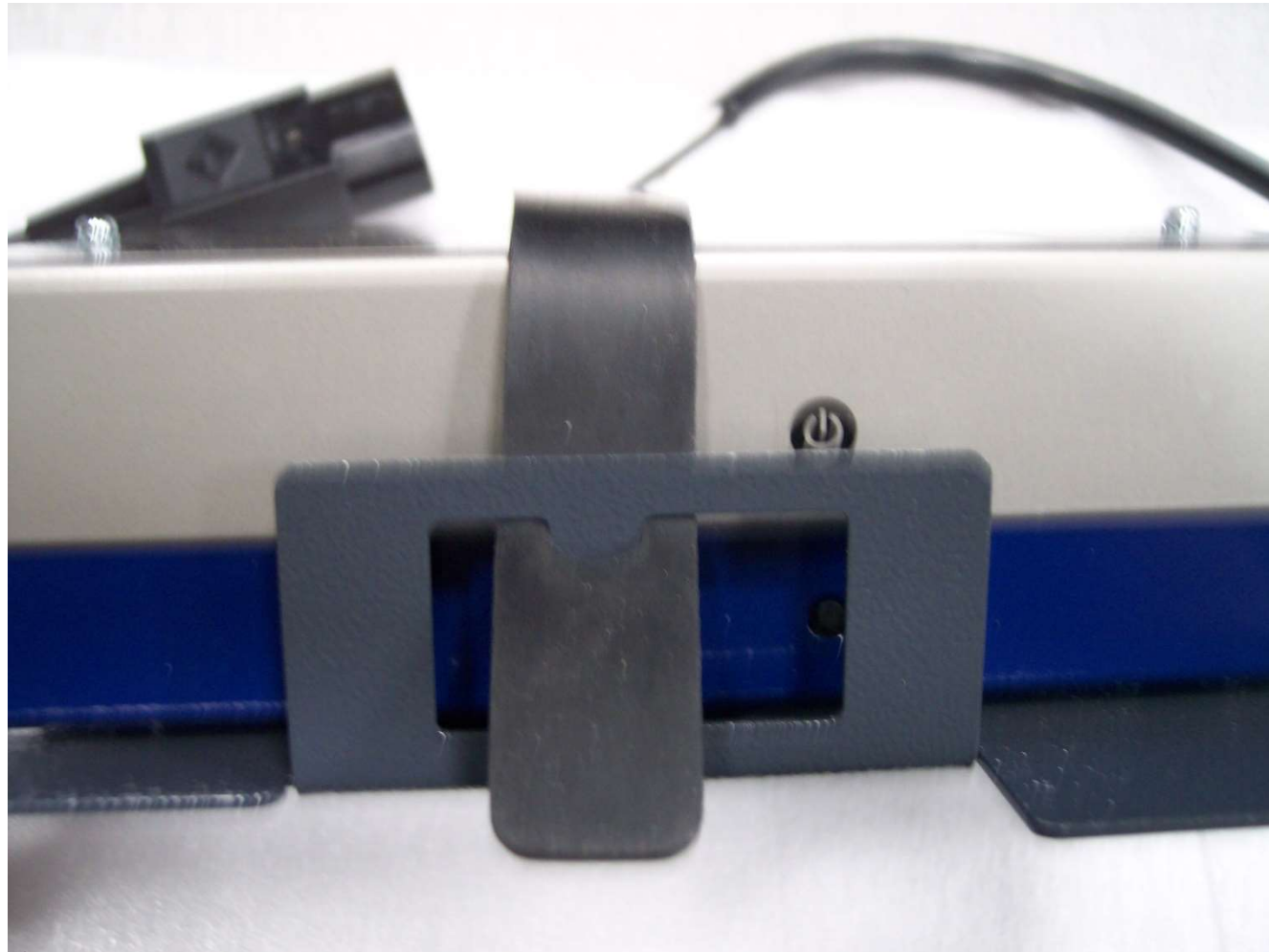
Mount the charger into the bracket as shown.  
Use the rubber strap included with charger kits



# Installing the Rubber Strap

All Versions

**Minuteman**<sup>®</sup>  
Excellence Meets Clean



# Mounting Holes



## Non Sport models:

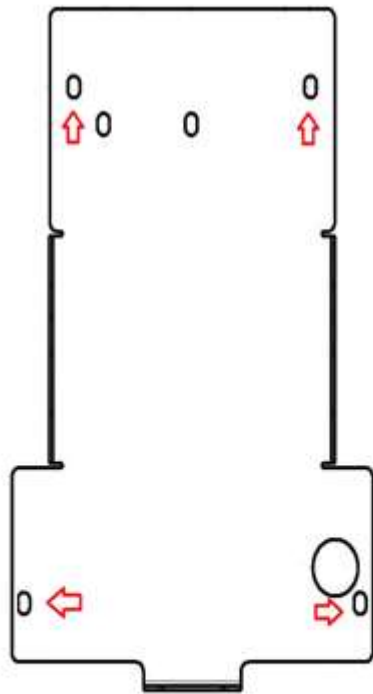
The mounting holes shown below are used, when replacing the Prime charger. Remove old Prime charger and mount the new IEB charger inside the electrical box using the same screws from the old charger.



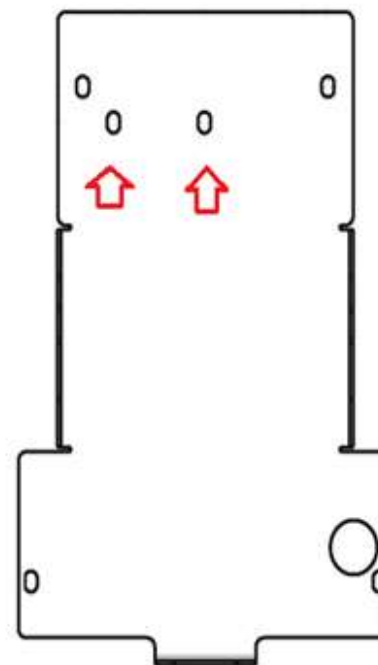
# Mounting Holes



The mounting holes for the charger mounting bracket are shown below with red arrows.



Mounting locations from  
Lester Prime chargers



Mounting locations  
from Signet chargers

# Charger Mounted

Non Sport Models

**Minuteman<sup>®</sup>**  
Excellence Meets Clean

The charger should be mounted, so that the A.C. power cord is on the top.



## Sport Models Only



- The sport models will require removing the brush motor controller (large silver controller) from the original mounting bracket. The charger is located behind it. Move the controller to side or disconnect leads, if needed.
- Remove the original brush controller mounting bracket and discard.

# Mounting Plate for Brush Controller



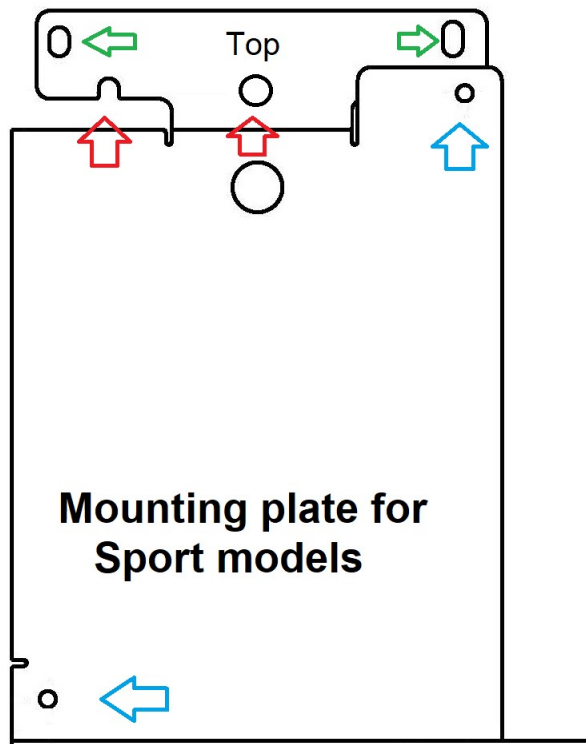
## Sport Models Only

The new brush motor controller bracket is shown below.

The green arrows are for the Lester Prime charger mounting.

The red arrows are for the Signet charger mounting location.

The blue arrows are for mounting the brush motor controller.



# Sport Models Only



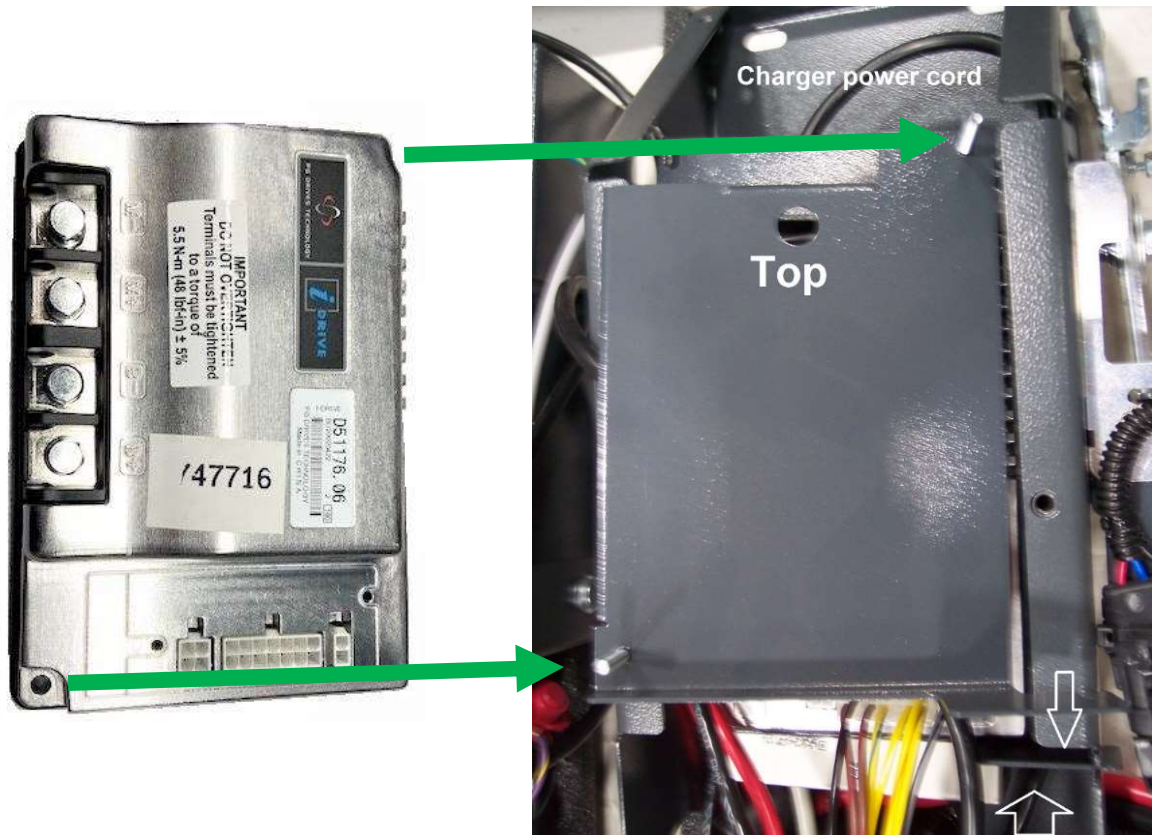
- The charger with the mounting bracket and brush controller bracket must be installed together in the electrical box at the same time.  
They use the same mounting holes.
- Note: the charger is behind the controller mounting plate in the picture.
- Use the screws from the previous charger installation.



# Sport Models Only

**Minuteman<sup>®</sup>**  
Excellence Meets Clean

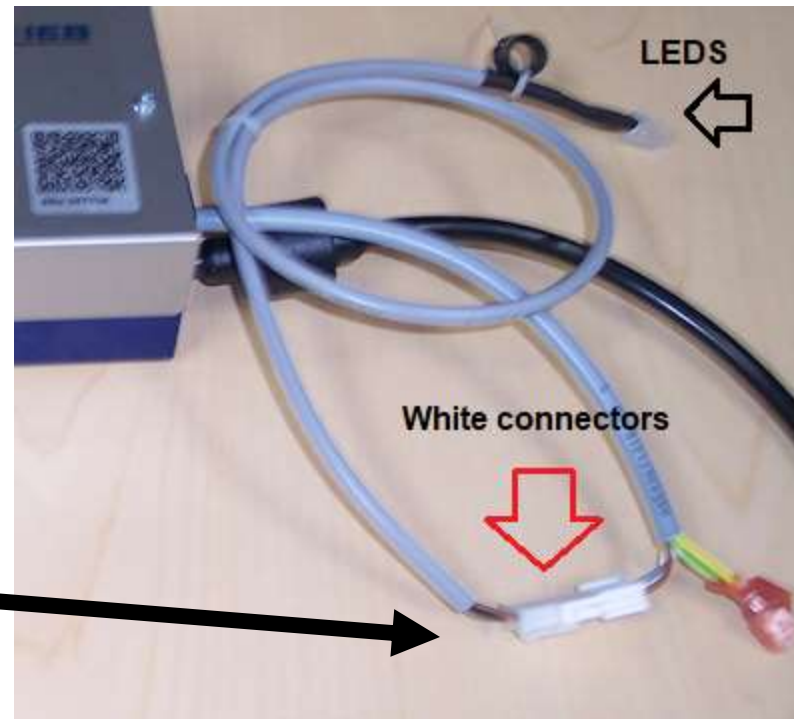
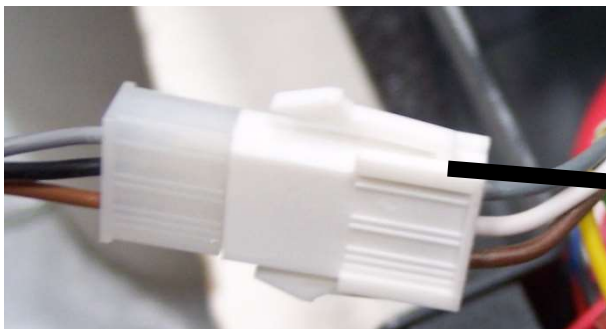
- Mount the brush controller on the two threaded studs as shown.
- Use the nuts from previous installation to secure.
- Connect the brush controller wires, if they were previously disconnected.



# Electrical Connections



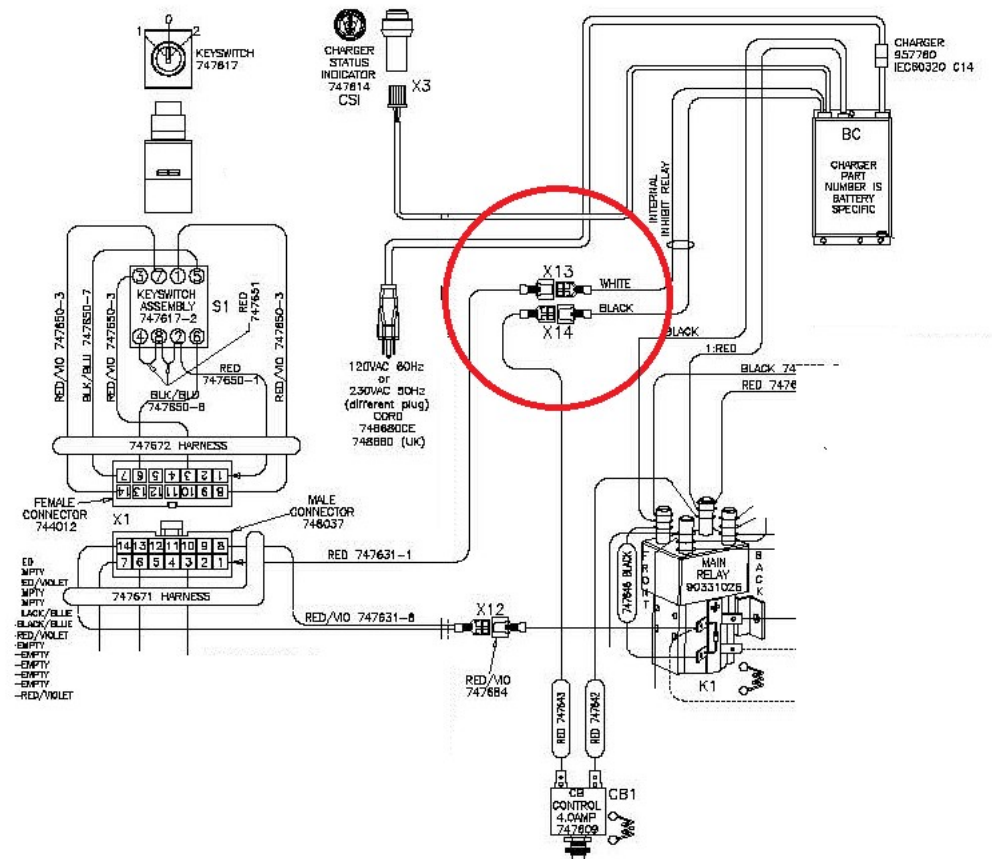
- All the new electrical connections are similar to the older charger connections.
- Connect the charger LED indicator leads by plugging the two white connectors together



**Minuteman®**  
Excellence Meets Clean



To red wires on  
key switch circuit. ↑

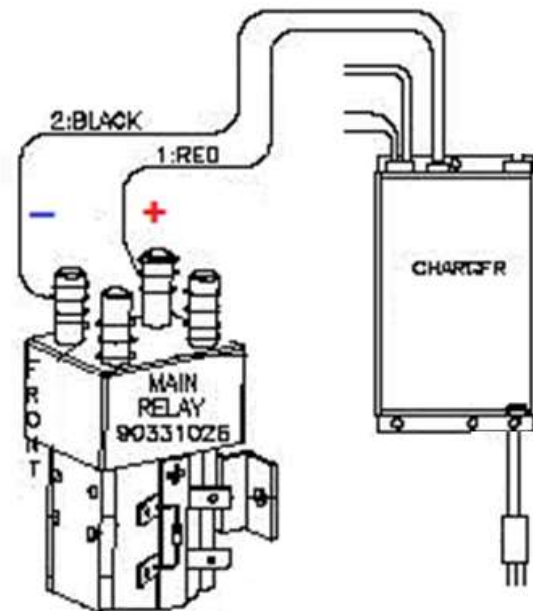


# Electrical Connections



Connect the positive and negative output leads of the charger as shown to the main power relay.

Note: The charger's positive lead should be mounted on the terminal with the red lead from the battery. The charger's negative lead should be on the terminal with black lead from the battery.



# Electrical Connections



Plug the detachable A.C. main power cord into the charger A.C. cord pigtail. Use plastic wire ties to secure the two plugs together, so they don't get disconnected. (wire ties are not included in kits)



Charger's A.C. Pigtail Cord



Detachable A.C. Cord

# Charger's Indicator (Signet)



**The Signet chargers** used the larger indicator LED light (Fig.1) and it will require using the two piece plastic adaptor (Fig.2 and 3).

1. Remove the original light.
2. Insert the threaded part of the adaptor from the outside of the panel.
3. Install the plastic nut on the inside surface of the panel and tighten.
4. Insert the charger's LED indicator light into the hole in the plastic adaptor from the inside opening (Fig.4).
5. Glue the LED indicator in place with hot glue (recommended) or Super Glue.



Fig.1



Fig.2



Fig. 3

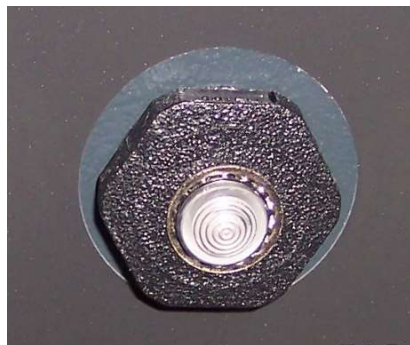


Fig.4

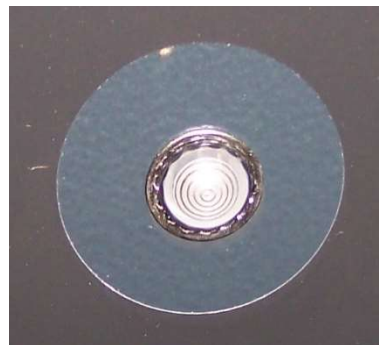
# Charger's Indicator (Lester-Prime) **Minuteman**<sup>®</sup> Excellence Meets Clean

## **Replacing the Lester Prime charger LED indicator.**

1. There are two different styles of mounting for the Lester Prime LED.
2. If the machine has the Lester charger with the version 1 (below), use the LED installation instructions from the Signet charger on previous page.
3. Version 2 (below)
4. Remove the grommet that is attached to the New LED indicator shown on the bottom right picture.
5. Continue to next page.



Version 1



Version 2



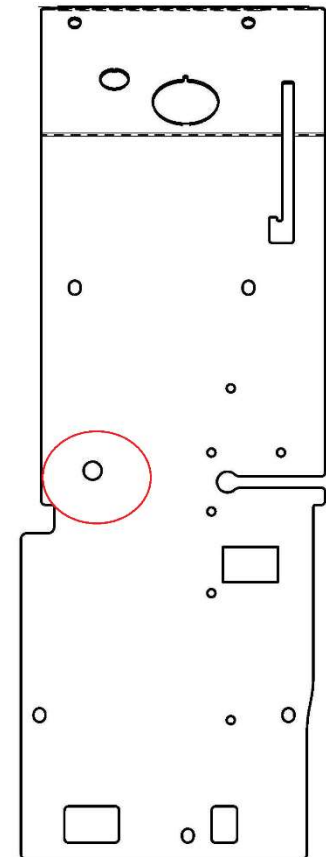
New LED

# Charger's Indicator (Lester-Prime)

Continued

**Minuteman**<sup>®</sup>  
Excellence Meets Clean

1. Remove the original LED indicator from the panel.
2. Enlarge the hole for the LED using a electric drill and a .594" drill bit. (panel shown in the picture on the right)
3. Insert the black plastic grommet from the outside of the panel with the flange on the outside.
4. Insert the LED into the grommet from the inside of the panel.
5. Use hot glue or super glue to hold the LED inside the grommet
6. Apply hot glue or super glue around the outer edge of the grommet, on the inside of the panel, so that the grommet doesn't fall out of the panel. See below



## Final steps



1. Route the A.C. cord through the panel, the same way as the original cord, using the original cord grommet.
2. Replace the rear panel.
3. Connect the D-hook to the black rubber strap.
4. Install the black knob on the squeegee lift lever.
5. Connect the batteries.
6. Test the machine and charger.
7. You are finished.