

# Wiring Harness Kit

Model No. 100-1042

## Installation Instructions

### Contents of the Kit

DESCRIPTION	QUANTITY
Connector on the wiring harness	1
Connector on the charger	1
Heat-shrink tubing pieces	4

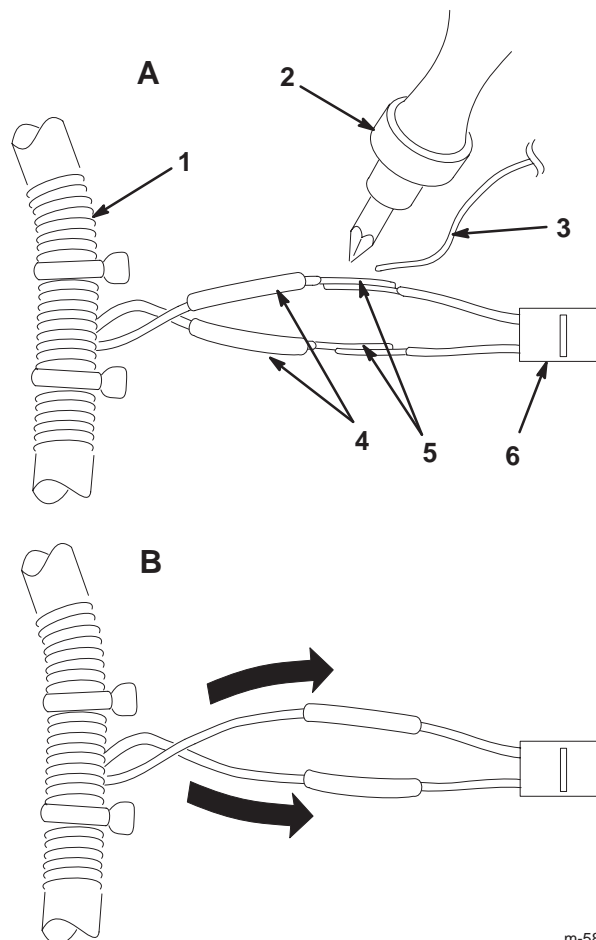
This kit provides the parts you need to replace the connector on the wiring harness, the connector on the charger, or both.

### Replacing the Connector on the Wiring Harness

1. Remove the old connector by cutting both the black and red wires about 1 inch (2.5 cm) from the wire harness.
2. Strip about 3/16 inch (5 mm) of insulation off the ends of both wires.
3. Slide a piece of heat-shrink tubing over each wire on the new connector (Fig. 1A).
4. Position the wires as shown in Figure 1A and solder them together.

**Important** Ensure that you match the color of the wires you are joining; otherwise, you could damage the charger when you attempt to charge the battery.

5. Slide the heat-shrink tubing pieces over the soldered connections (Fig. 1B).
6. Shrink the tubing pieces using a hair dryer (at high setting) until the tubing conforms to the shape of the wires and the solder connection.



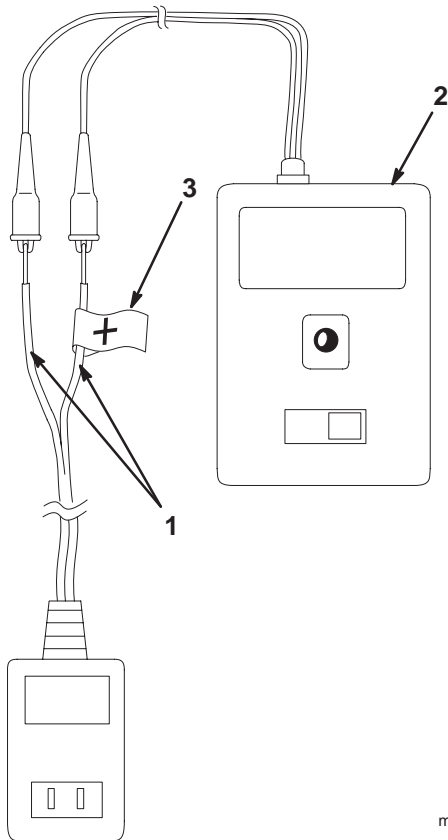
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**Figure 1**

- |                 |                              |
|-----------------|------------------------------|
| 1. Wire harness | 4. Heat-shrink tubing pieces |
| 2. Solder iron  | 5. Wires with stripped ends  |
| 3. Solder       | 6. New connector             |

# Replacing the Connector on the Charger

1. Remove the old connector by cutting the wires close to it.
2. Split the wires apart about 1 inch (2.5 cm) as shown in Figure 2.



**Figure 2**

1. Wires split apart and with stripped ends
2. Voltmeter
3. Positive (+) wire marked

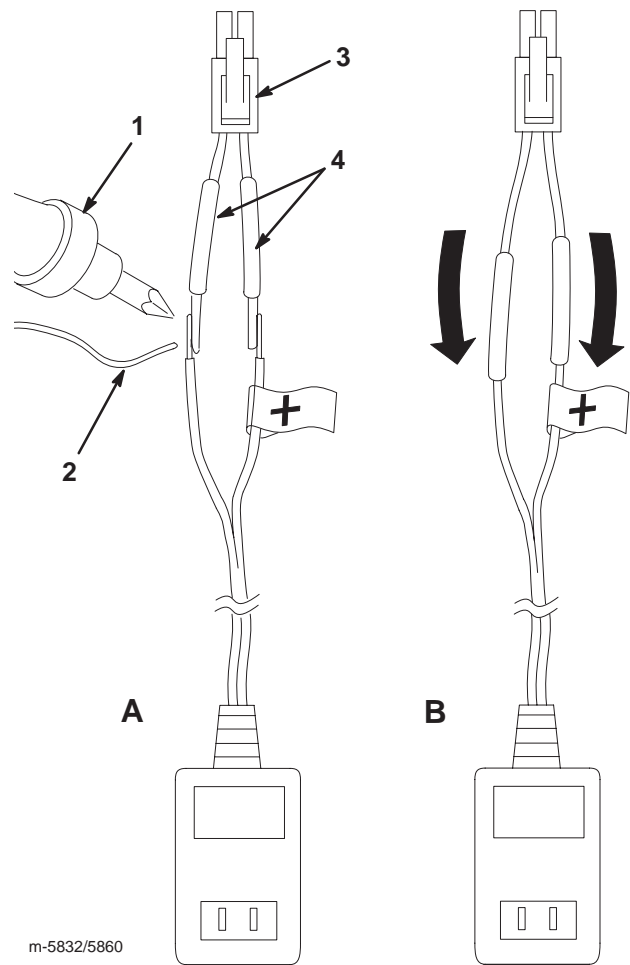
3. Strip about 3/16 inch (5 mm) of insulation off the end of both wires (Fig. 2).

4. Plug the charger into a standard household outlet.

5. Use a voltmeter to determine which of the wires is positive and label it (Fig. 2).

**Note:** The reading should be  $13.80 \pm 0.25V$  DC. If not, check the outlet where you plugged in the charger. If the outlet is working properly, replace the charger.

6. Slide a piece of heat-shrink tubing over each wire on the new connector (Fig. 3).



**Figure 3**

1. Solder iron
2. Solder
3. New connector
4. Heat-shrink tubing pieces

7. Position the wires as shown in Figure 3A and solder them together.

**Important** Match the **red** wire on the new connector to the wire that you marked positive in step 5. If you don't match the polarity, you could damage the charger.

8. Slide the heat-shrink tubing pieces over the soldered connections (Fig. 3B).

9. Shrink the tubing pieces using a hair dryer (at high setting) until the tubing conforms to the shape of the wires and the solder connection.