



PTC MC SINGLE SEAT HEATER KIT

Installation Instructions

- Read Carefully Before Starting Installation -

Limited Warranty

This product is warranted to be free from defects in manufacturing and workmanship and is guaranteed to work for one year. This Limited Warranty covers the repair or replacement of the seat heater components only and does not cover any costs related to or damage resulting from the installation of the seat heater or the seat cover itself. Failure to properly install the designated seat heated product, or improper installation or misuse of any component, will void this Limited Warranty.

MANUFACTURER'S LIMITED REPAIR/REPLACEMENT WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR DUTIES OR WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OF TRADE OR COMMON LAW. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR PROXIMATE, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES, INCLUDING BUT NOT LIMITED TO DAMAGES FOR LOSS OF PROFITS OR PRODUCTION OR INJURY TO PERSON OR PROPERTY. THE CONSUMER OF THIS PRODUCT SHOULD CONTACT ITS INSTALLATION DEALER FOR ANY WARRANTY CLAIM AND RETURN WARRANTY CARD TO VALIDATE WARRANTY.

- Seat Heaters Specifications -

- 12v (11 – 15 volts)
- Maximum power requirements:
30W (2A @ 15V, @-20°C)
- Maximum Temperature measured at seat surface during normal operation **. The seat cover is 0.125" foam & vinyl.

113°F (+/- 3 °F) or 45°C (+/- 2°F)
- Heating elements meet FMVSS 302 flammability requirements
** Performance varies with seat materials used and the density and amount of sew foam between the heating elements and the surface of the seat.

- The Skills You Need -

Electrical experience or a basic understanding of electrical systems and the ability to disassemble and reassemble motorcycle seating is recommended.

- ! WARNING ! -

PLEASE READ BEFORE INSTALLING SEAT HEATERS!

1. The tab of the heating element **MUST** be placed within the foam and **NOT** be located on top of the seating surface of the foam bun (see page 3).
2. Remove paper adhesive liner from heating element before installing it onto the foam bun.

This is mandatory as the heating element is maintained by the adhesion to the base foam of the seat.

3. Seat heater must be connected to switched ignition power only. This will prevent continued operation of the seat heater after the motorcycle has been turned off. Connecting to other power points will cause the **BATTERY TO DISCHARGE** to a non-starting voltage if the seat heater switch is left on after the vehicle has been turned off.
4. Seat heating element **MUST NOT** be folded into seat listing channels. Also do **NOT** fold the heating elements against themselves as it will cause the heater to shut down in this area. It could fracture the heater and cause it to stop working.

IN THE EVENT THAT THE FOREMENTIONED WARNINGS BE DISREGUARDED, THE WARRANTY BECOMES NULL AND VOID, BEING THAT THE COMPONENTS PROVIDED WITHIN THE SEAT HEATING KIT WERE MISUSED.

- Parts list -

PTC-MC-SINGLE

1	PTC ELEMENT	E5500042B-2	1
2	WATERPROOF SWITCH	SW-SPST-04A	1
3	POWER HARNESS	CB-PWR-HRN-36	1
4	CLIP	TY-18ST	2
5	SWITCH PLATE	SP-MC-1	1
6	SWITCH SUPPORT PLATE	SP-MC-1-U	1
7	HARDWARE PACK	HPACK-MC-INLINE	1
8	FOAM SHEET	FM/TB16-14	18"

- Before You Start -

REVIEW ALL INSTALLATION INSTRUCTIONS AND PRODUCT WARNINGS BEFORE INSTALLATION!

NOTE: The heating elements work best with a 0.125" piece of foam between them and the seat cover material. Thicker foam will increase the heat up time and less foam will cause the seat to be too hot.

Check and determine that the heating elements will fit under the seat trim covers in the desired areas. Ensure that the motorcycle has 12-14 volts system and that ignition switched power is available at the fuse panel. Locate motorcycle fuse panel and determine routing of wire. Pre-wire all components on your workbench according to wiring diagram (Fig. 1) and test with multi-meter for continuity. Use a 12V D.C. power source. Do not use battery charger as a power source. Determine a location for mounting of the switch, which does not interfere with saddle bags and passenger legs in order to prevent accidental operation.

**IF ANY OF THE CONDITIONS ON PAGE 1 & 2 CANNOT BE MET,
INSTALLATION SHOULD NOT BE ATTEMPTED.**

- Installation -

- 1 Remove Seat from motorcycle.
- 2 Remove the seat trim covers and ensure the heater elements fit and can be installed properly as stated by the requirements on pages 1 and 2 of this pamphlet. Use a Tack Puller to remove staples from the seat (Fig. 1).



Fig. 1

- 2.1 Determine the heating element location on foam bun (Fig. 2).

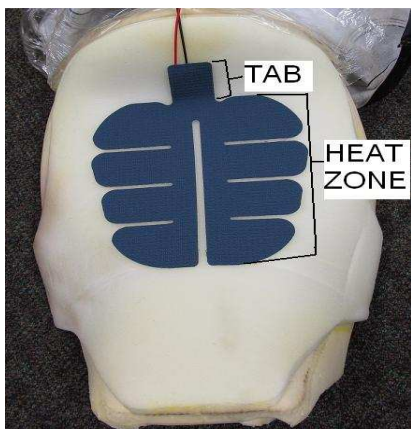


Fig. 2

- 2.2 Cut a slot slightly wider than the tab of the heating element through foam bun (Fig. 3 & Fig. 4). Push the tab into the slot gently and feed the wires through the slot (Fig. 5). Leave slack in wires coming from the tab to prevent strain at this point of connection. The tab of the element **MUST** be placed within the foam and **NOT** be located on top of the seating surface of the foam.

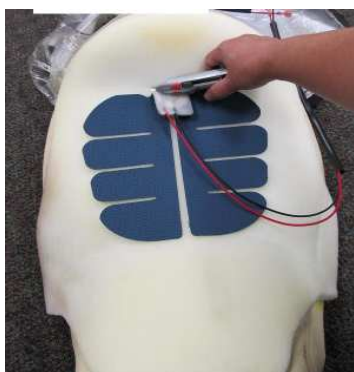


Fig. 3



Fig.4



Fig.5

- 2.3 Remove the adhesive release paper (Fig.6). This paper must be removed. Attach the heating panels to the base seat foam by pushing down on the pads causing the adhesive to stick completely to the seat base foam (Fig.7). The bond to the seat foam will increase over time.



Fig. 6



Fig. 7

2.4 Place the provided 0.125" foam sheet onto the heating element (Fig. 8). Adhere in place around the edge to prevent wrinkles when the cover is re-installed. Place the plastic sheet back onto the foam sheet if there is one used. Make sure it is smooth as well.



Fig. 8

3 Install the seat heater switch.

3.1 Ensure that the wire harness will reach the switch and the wires aren't obstructed by the seat structure and supports. Use back plate as template marking on seat cover (Fig.9 & Fig. 10).



Fig. 9



Fig. 10

3.2 Make cutout. Install front plate and back plate onto cover before installing switch (Fig. 11). Use 7mm socket to press clips down onto the plastic shaft (Fig.12 & Fig. 13). This will hold the assembly together.



Fig. 11

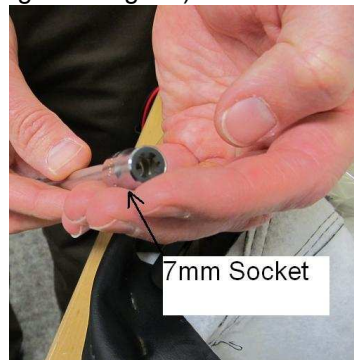


Fig. 12



Fig. 13

3.3 Cut receiving hole in base foam to receive switch housing (Fig.14, Fig. 15 & Fig.16). Make sure that the receiving hole is slightly bigger than the switch housing.



Fig. 14



Fig. 15

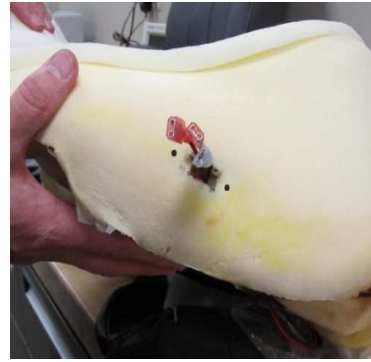


Fig. 16

3.4 Install switch into plates after the mounting plates are secured to the cover (Fig. 17 & Fig. 18).



Fig. 17



Fig. 18

4 Use a 7/8" step drill bit to drill a hole in bottom panel and fish the harness out at the newly drilled hole (Fig. 19 & Fig. 20).



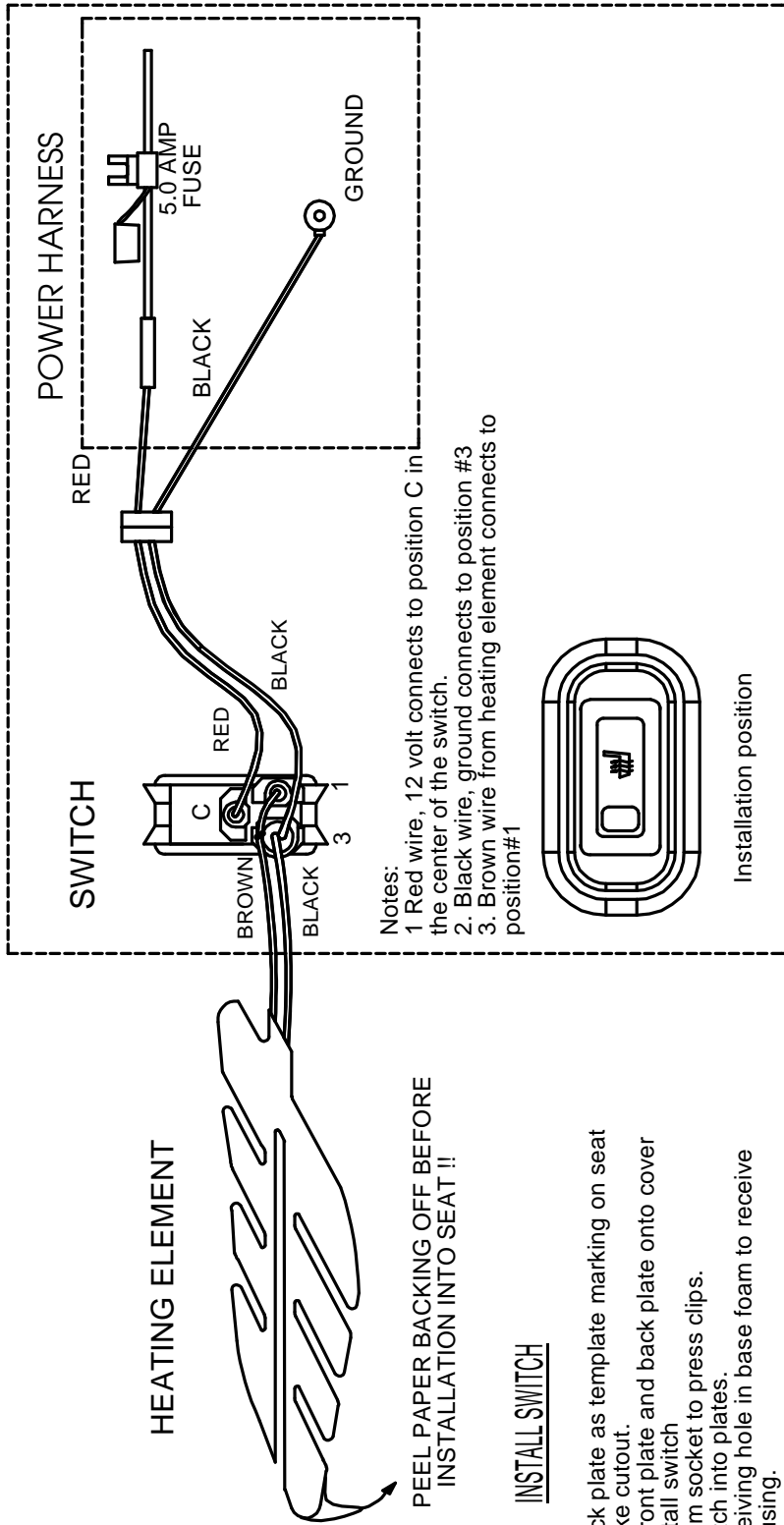
Fig. 19



Fig. 20

- 5 Locate the desired fuse outlet and make connection to an Ignition switched power source, utilizing the necessary fuse taps and wire terminals.
- 6 Connect the seat heater wires together according to wiring diagram (Fig.21). Secure the wire in place with Ty-raps.
- 7 Test seat heater for proper operation.
- 8 Re-install seat trim covers. Use a spring loaded staple gun to reinstall the staples in the seat pan to hold the cover in place. The 1/4" or 5 MM staples work for securing the cover.
- 9 Connect the power harness to the seat. And then install the seat on the motorcycle.
- 10 Operation of the heated seats: After turning the system on, you should be able to feel heat in approximately 5 minutes depending on the thickness of the trim cover material over the element. The thicker the trim cover, the longer it takes to feel the heat. If the occupant feels too much heat we suggest cycling the heater off or adding 1/8 to 1/4" thick foam to achieve the desired maximum temperature.

PTC MOTORCYCLE SEAT HEATER WIRING DIAGRAM



DiagLIT-PTC-MC-SINGLE REV. A

FIG. 21

IF THE SYSTEM DOES NOT HEAT UP

To test the unit you must sit in it for at least a 5-minute period in which the heat has time to reach the seat surface.

- ✓ Check the fuse – 5.0 Amps which was added to protect the harness from shorting to the MC frame (in the added fuse accessory)
- ✓ Ensure that all connections are properly coupled and that the 12V DC and ground wires are properly installed.
- ✓ If the heating element, switch, and seat harness test OK, then a power problem exists. Test the power and ground at the black connector attached to the seat heater power harness.
- ✓ Using a voltmeter or a test light, start at the fuse accessory and trace back through all of the connectors and the switch to determine where the power loss is occurring. Repair as necessary.
- ✓ To test the power input side of the fuse, remove the fuse and locate the +12 volt side of the receptacle. +12V exists on one side after the fuse is removed and the ignition is turned on. If power is not measured, try grounding your meter to the negative battery terminal. If power is now measured, reattach your seat heater ground wire to a confirmed ground point. Once power and ground to the seat heater is confirmed, test the seat heater to make sure it is warming up.

If you have any questions regarding the installation of check corporation seat heaters, please call our hotline at 1-800-927-6787, 8AM TO 5PM Eastern Standard Time. Ask for “Seat Heater Installation Assistance” when you call.