PREMIUM SEAT HEATER KIT
INSTALLATION MANUAL
Installation Instructions for Leather and Cloth Seating

– 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 three years or 36,000 miles, or whichever occurs first. 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. Seat heaters must only be used in the seat applications for which they were designed, tested and approved by Check Corporation, and failure to properly install the designated seat heated product, or improper installation or misuse of any component, will void this Limited Warranty. Installer shall indemnify and hold Check Corporation harmless from any and all installations contrary to automobile OEM, automobile dealership, and Check Corporation issued instructions.

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 PROXIMITE, 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.

– Before You Start –

REVIEW ALL INSTALLATION INSTRUCTIONS AND PRODUCT WARNINGS BEFORE INSTALLATION!

– Seat Heaters Specification –

Check Corporation heating element assemblies are specific to each seat. They are designed to fit specific vehicle seats according to the model and production year of the vehicle.

- 12v automotive system (11 – 15 volts)
- Maximum power requirements vary by kit and range between 51W (3.7A @ 13.8V) and 138W (10A @ 13.8V)
- Temperature range measured at seat surface during normal operation **

Premium	(High)	110℉	(+/- 3 ℉)	or 43.3℃
Premium	(Medium)	105℉	(+/- 3 ℉)	or 40.6℃
Premium	(Low)	100℉	(+/- 3 ℉)	or 38℃

- Heating elements meet FMVSS 302 flammability requirements
- Connectors are indexed to prevent improper mating

** 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 -

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

Recommended tools:

- Multi-meter, terminal crimpers, wire strippers, screw driver, wrenches, electrical tape, marker or pencil, drill, wire cutters, torque, socket and allen wrenches, hog ring pliers, and utility knife, needle nose pliers, ratchet, deep socket, and rotary tool with an 1/8" bit.

- Parts list - PREMIUM HEATER SYSTEM

PARTS	PRM-0xx - ONE SINGLE ELEMENT	PRM-1xx - ONE SEAT CUSHION & BACK	PRM-2xx - TWO SEATS CUSHION & BACK	PRM-3xx - TWO SEATS SINGLE ELEMENT PASS SIDE
CUSHION ELEMENT	-	1	2	1
BACK ELEMENT	-	1	2	1
SINGLE ELEMENT	1	-	-	1
SINGLE MEMBRANE SWITCH PACK	**	**	-	-
TWIN MEMBRANE SWITCH PACK	-	-	***	***
DUAL MEMBRANE SWITCH PACK	-	-	***	***
PRM ROUND SWITCH PACK (SINGLE)	**	**	-	-
PRM ROUND SWITCH PACK (DUAL)	-	-	***	***
HARDWARE PACK (PRM-1)	1	1	-	1
12 ft PWR HARNESS	1	1	-	-
HARDWARE PACK (PRM-2)	-	-	1	1
RELAY POWER HARNESS	-	-	1	1
ADD-A-FUSE	1	1	-	-
ELECTRONIC CONTROLLER	1	1	1	1
LUX EXTENSION HARNESS	1	1	-	-
6FT EXTENSION HARNESS	-	-	1	1
9FT EXTENSION HARNESS	-	-	1	1
OWNERS MANUAL	1	1	1	1
SERVICE MANUAL	1	1	1	1

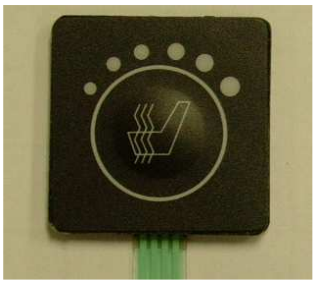
**** Note: Single membrane or round rocker switch pack may be ordered with PRM-0xx or PRM-1xx kits.**
***** Note: Dual round rocker, twin membrane or dual membrane switch pack may be ordered with PRM-2xx or PRM-3xx kits**

NOTE:

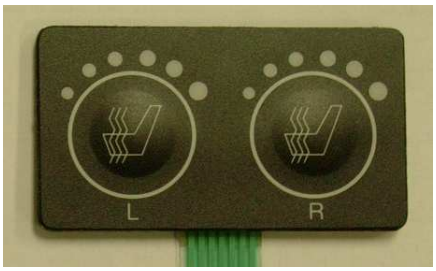
The heating elements work best with a ¼" to ½" piece of foam between them and the seat cover material. Thicker foam will increase the heat up time. Normally foam is sewn into the seat cover at the factory.

- Parts list - PREMIUM SWITCH PACKS

PARTS	SINGLE MEMBRANE SWITCH PACK	TWIN MEMBRANE SWITCH PACK	DUAL MEMBRANE SWITCH PACK	PRM ROUND ROCKER SWITCH PACK (SINGLE)	PRM ROUND ROCKER SWITCH PACK (DUAL)
SINGLE MEMBRANE SWITCH	1	2	-	-	-
DUAL MEMBRANE SWITCH	-	-	1	-	-
ROUND ROCKER MOMENTARY SWITCH	-	-	-	1	2
TWIN MEMBRANE SWITCH HARNESS	1	1	-	-	-
DUAL MEMBRANE SWITCH HARNESS	-	-	1	-	-
ROUND SWITCH HARNESS (SINGLE)	-	-	-	1	-
ROUND SWITCH HARNESS (DUAL)	-	-	-	-	1
RECTANGLE SWITCH FRAME	-	-	1	-	-
SQUARE SWITCH FRAME	1	2	-	-	-
CLEANING PAD	1	1	1	-	-



Single Membrane Switch



Dual Membrane Switch

Round Rocker Momentary Switch

- ! WARNING ! -

PLEASE READ BEFORE INSTALLING HEATING ELEMENT ASSEMBLIES!

- Some front passenger seats are outfitted with occupant detection sensors which are not compatible with any after-market seat heater. Consult with Check Corporation to determine the appropriate heating element assembly for each specific vehicle. See seat heater "selection guide" for details at www.checkcorp.com

- Heating elements should NEVER be installed onto foam where an occupant detection sensor is visible on the Top surface of the foam, even if the heating element would not touch the sensor. Heating elements are to be placed onto foam bun only. The heating elements may adversely affect or cause the sensors or airbag system to not function correctly, thereby causing severe injury or death.

- The heating elements must be connected to switched ignition power only.

- Never remove the cover of a bonded seat. The cover of a bonded seat cannot be installed again once it has been removed. If installation of a heating element assembly is to be attempted in this kind of seat, cut an opening in the foam bun large enough for the element to fit ½″ underneath the cover. A professional should only attempt this, as mistakes often result in the replacement of the seat foam and cover.

- Check and determine that the heating elements will fit under the seat trim covers in the desired areas. The listing channels or the Velcro hold-downs should line up with the cutouts in the heating elements. This is not important if the heating elements do not cross over a listing channel or Velcro hold-down. See figure 3.

IF ABOVE CONDITIONS CANNOT BE MET, DO NOT ATTEMPT INSTALLATION.

- **To prevent OVERHEATING AND/OR A FIRE follow these instructions carefully:**

    - Remove paper adhesive liner from the cushion and back heating elements before installing them onto the foam bun. This is mandatory as the heating pattern is maintained by the adhesion of the heating elements to the foam bun of the seat. If the heating elements are not secured they could develop hot spots.

    - The paper liner is combustible and is not intended to be installed with the heating elements.

    - The Heating elements must not be folded into seat listing channels except where cutouts were designed into the element. Do not fold the heating elements against themselves.

    - Cushion and back heating elements are wired to operate in series only. Do not change the wiring to power the heating elements in parallel.

IN THE EVENT THAT THESE WARNINGS ARE DISREGARDED, THE WARRANTY BECOMES NULL AND VOID. MISUSE OF THIS PRODUCT MAY CAUSE SERIOUS INJURY TO PERSON OR PROPERTY.

- Installation -

1 Pre-wire all components on your workbench and test with a multi-meter for continuity. Do NOT use a battery charger as a power source. Use a 12V D.C. power source. If there are any problems, see the troubleshooting page. **IF THE KIT HAS A CUSHION AND BACK HEATING ELEMENT THEN BOTH MUST BE USED. NEVER OPERATE CUSHION OR BACK ELEMENT SEPARATELY. SINGLE ELEMENT HEATERS AVAILABLE IF NEEDED.**

2 **If using the Add-A-Fuse (1 seat system):**
Locate the desired IGNITION SWITCHED fuse outlet and connect using the supplied fuse accessory and wire ends. Only one seat per fuse outlet. Each seat requires its own 7.5A inline fuse (supplied with kit).
SEE Add-A-Fuse Installation

If using the Relay Power Harness (2 seat system):
Locate 12 V power outlet/cigar lighter. Determine if it is always powered or ignition switched.
If always powered: Connect red wire to 12V of power outlet. Locate a switched power connection for connecting purple wire (purple wire can be connected to low amperage fuse). Connect black wire to ground.
If switched with ignition: Connect red and purple wire to 12V of power outlet. Connect black wire to ground.
SEE Relay Power Harness Installation

3 Disconnect and isolate the negative (ground) battery cable, pump the brakes a few times, and wait five minutes for the system to discharge. It is important to do this before disconnecting any airbag connectors.

4 Remove Seat(s) from vehicle. Care should be taken, as the sharp edges of the seat frame will scratch the interior trim. Use duct tape or padding to cover sharp areas before removing seat.

5 Remove the seat covers and verify that the heating elements fit. **HEATING ELEMENT ASSEMBLIES SHOULD NEVER BE INSTALLED ONTO FOAM WHERE AN OCCUPANT DETECTION SENSOR IS VISIBLE ON THE TOP SURFACE OF THE FOAM. EVEN IF THE HEATING ELEMENT WOULD NOT TOUCH THE SENSOR.**

6 Install the ground wire ring terminal, from the power harness, to the fuse box ground screw. Clean terminals and grounding point of paint, grease, and dirt to ensure a good electrical connection. **NEVER DRILL THROUGH THE FLOOR.**

7 **If using single, twin or dual (membrane) switch(es)**
Clean the mounting area for the switch with the provided cleaning cloth. Install the seat heater switch using the template enclosed in the switch packet. Ensure that the wire harness will reach the switch and the wires aren't obstructed by the seat structure and supports. Cut out a slot for the switch connector using the template to mount the switch.
If using round rocker switch
Determine a location for mounting the switch. Cut a hole according to the dimensions shown in the wiring diagram. Connect switch harness to the back of the switch as shown in the wiring diagram (by wire color).

8 Locate area for heating elements by tracing element outline onto foam bun. Be sure that the cushion element is placed on the cushion bun, and that the back element is placed on the back bun.

9 Remove the adhesive release paper. This paper must be removed, as IT WILL BURN. Attach the heating elements to the foam bun (not the seat cover) by pushing down on the pads causing the adhesive to stick completely to the foam bun. **NOTE:** Element may be hard to handle if you tear release paper off all at once. Paper can be peeled away in increments as you apply the element to the foam bun. Apply cushion element rear to front and back element bottom to top. **RELEASE PAPER MUST BE COMPLETELY REMOVED. FAILING TO COMPLETELY REMOVE PAPER IS A FIRE HAZARD AND NULLIFIES AND VOIDS WARRANTY.**

10 Re-install seat trim covers. Do not install hog rings through the heating element. **THE SEAT LISTING WIRES SHOULD NOT LIE DIRECTLY ON TOP OF THE HEATING ELEMENTS. IF THE LISTING WIRES MUST CROSS THE PADS IN THE CHANNELS, ADD SOME FOAM FOR PROTECTION.**

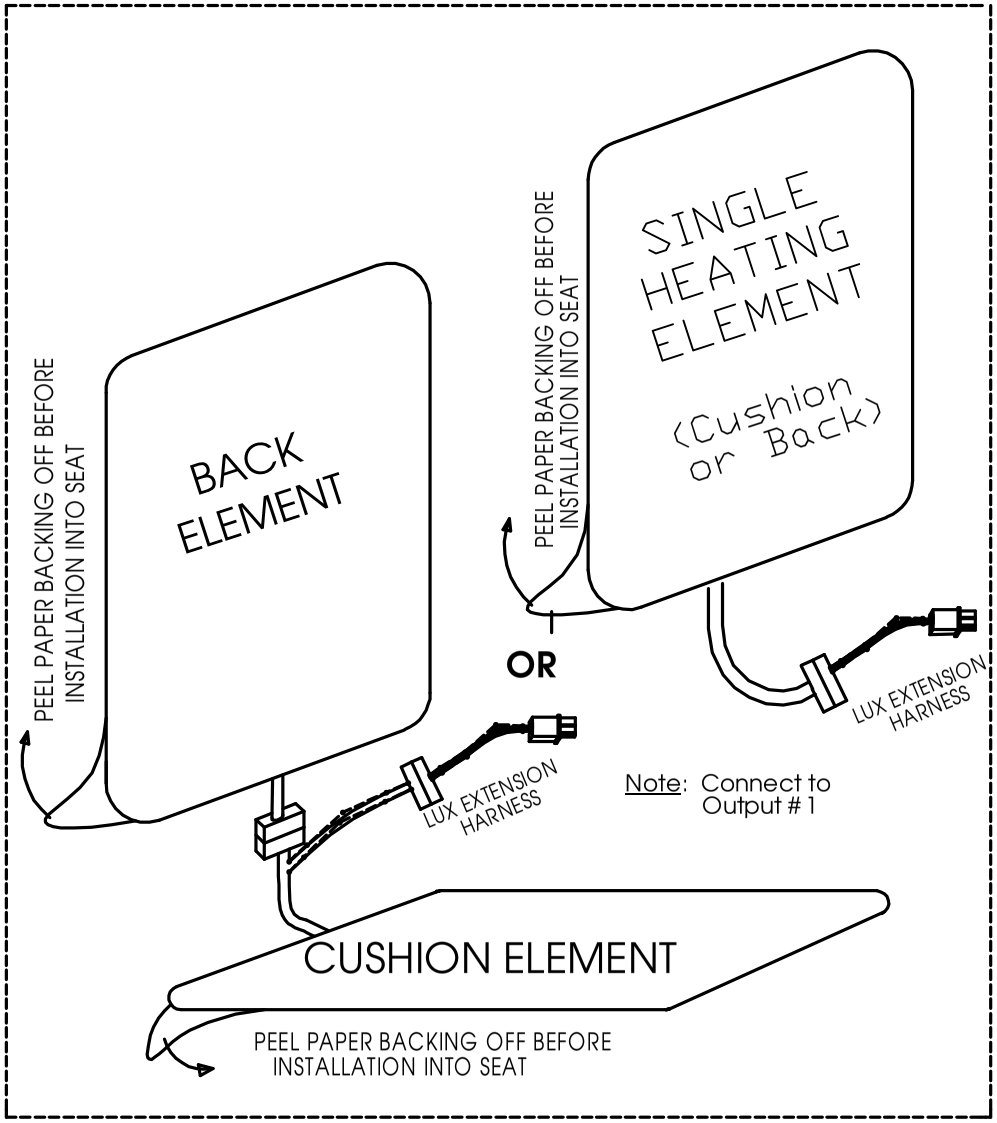
11 Install the seat into the vehicle. Reconnect airbag connectors and then the ground of the battery. Connect the extension harnesses to the controller as shown in the wiring diagram.

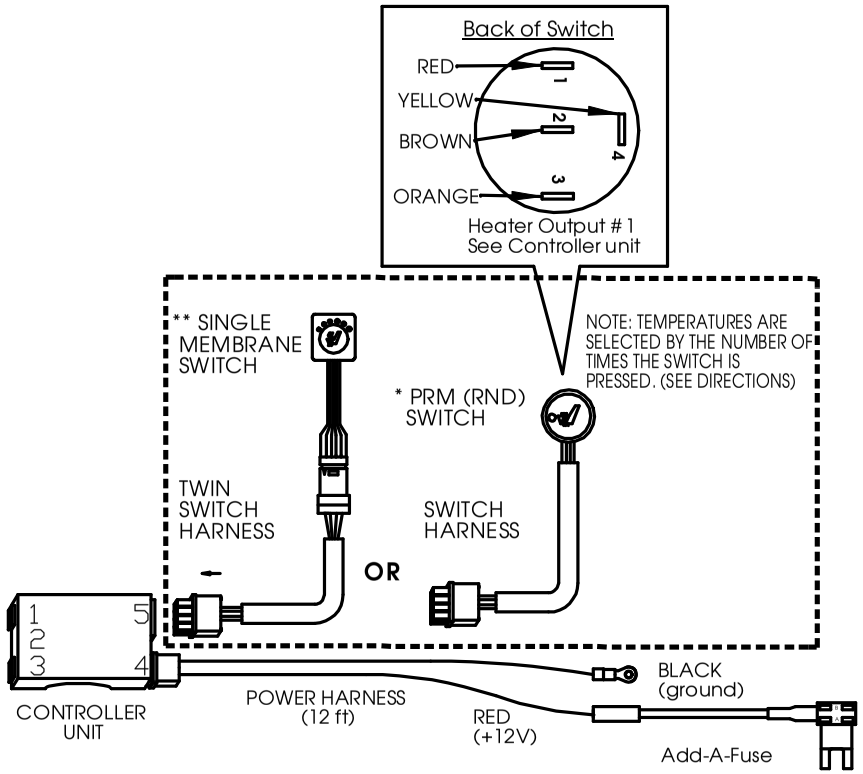
12 Mate all remaining connectors (as shown in the wiring diagram). **SECURE THE WIRE WITH THE TIES PROVIDED. CHECK THAT THE RECLINING OF THE SEATS, OR THE MOVEMENT OF THE SEAT FRAME DOES NOT PULL, FRAY, OR CUT THE WIRES**

13 **TEST SEAT FUNCTIONS; RECLINE, FORWARD, REVERSE, UP, DOWN, ETC. ENSURING THAT NO STRAIN IS PLACED ON ANY OF THE SYSTEM'S WIRES.** Ensure all of the anchor bolts are tight to the manufacturer's specification.

14 **OPERATION OF THE HEATED SEATS:** After turning the system on, you must sit in the seat and should be able to feel heat within 1-5 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.

PRM-0XX or PRM-1XX
FRONT SEAT HEATER KIT WIRING DIAGRAM

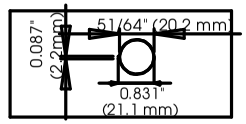




SWITCH OPENING

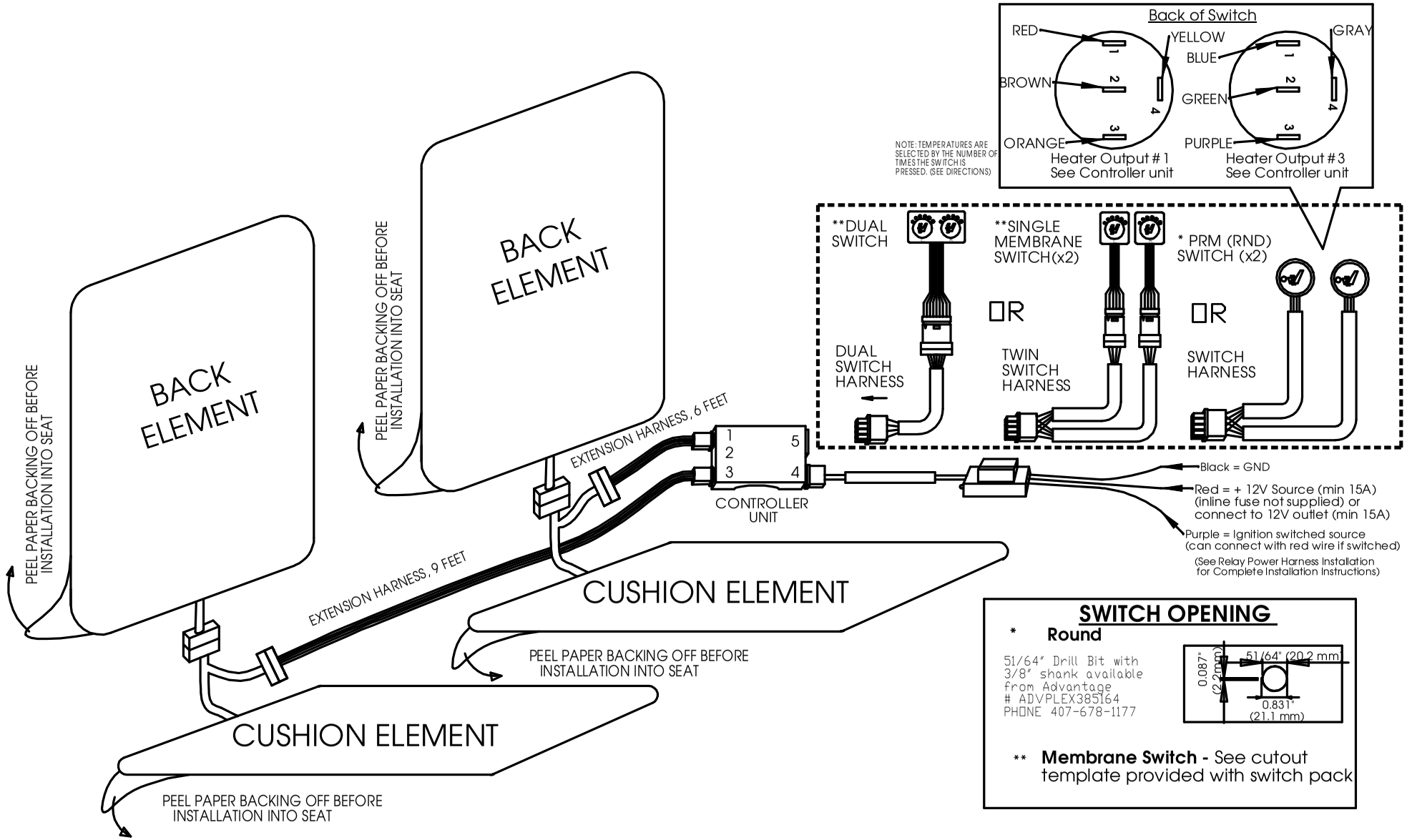
* **Round**

51/64" Drill Bit with 3/8" shank available from Advantage # ADVPLEX385164 PHONE 407-678-1177



** **Membrane Switch -** See cutout template provided with switch pack

PRM-2XX FRONT HEATER KIT WIRING DIAGRAM



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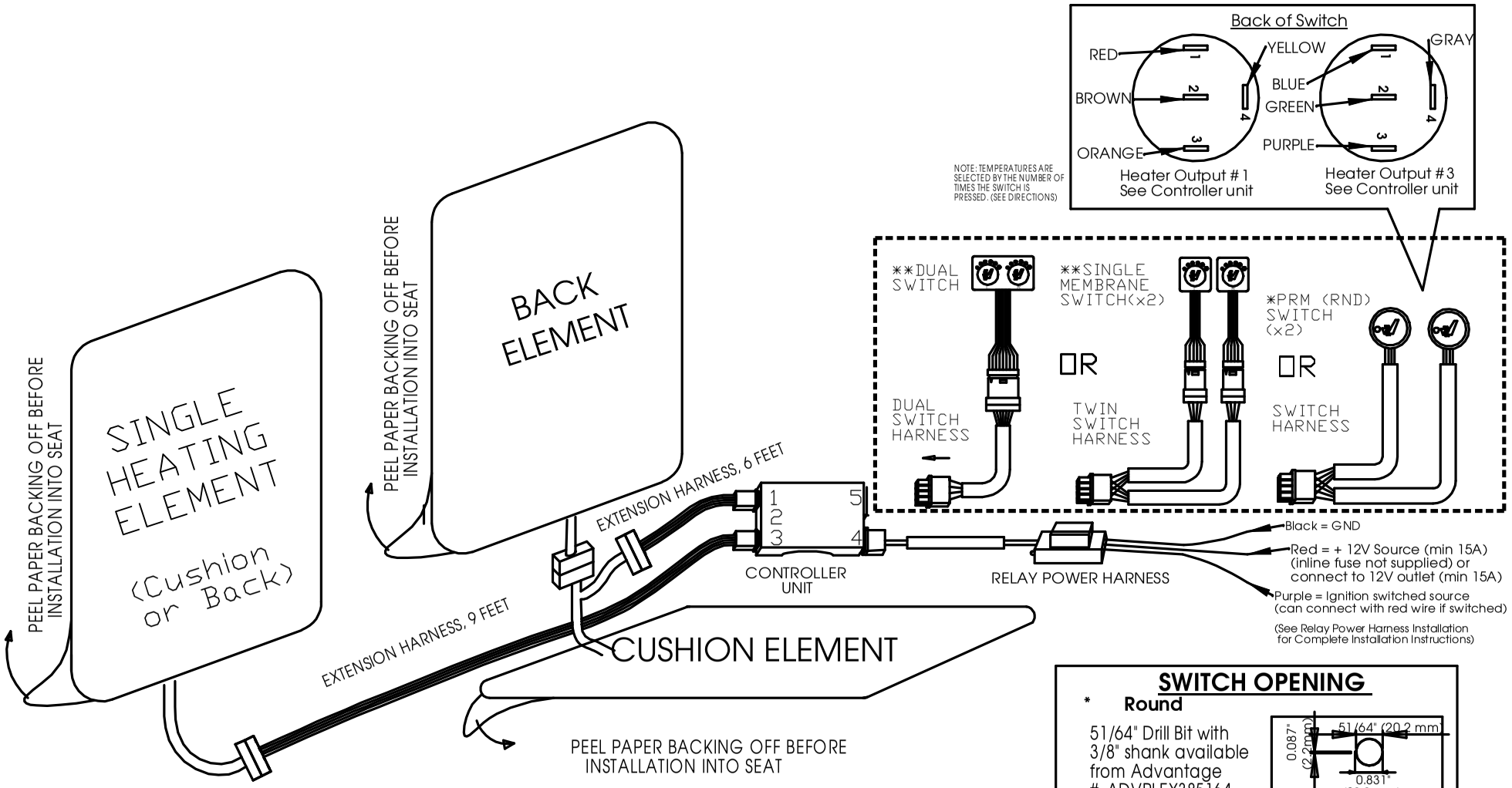
PRM-3XX FRONT SEAT HEATER KIT WIRING DIAGRAM



SWITCH OPENING

* **Round**

51/64" Drill Bit with 3/8" shank available from Advantage # ADVPLEX385164 PHONE 407-678-1177

** **Membrane Switch -** See cutout template provided with switch pack

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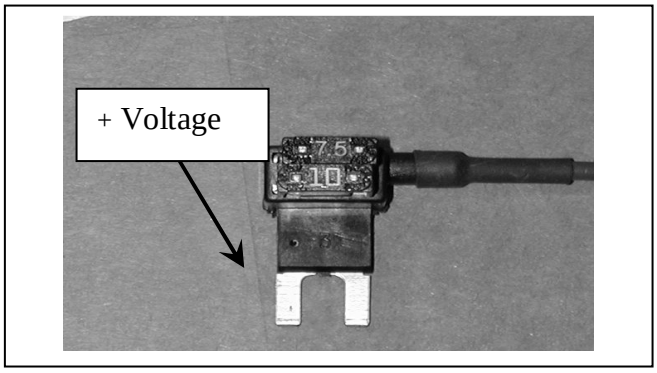
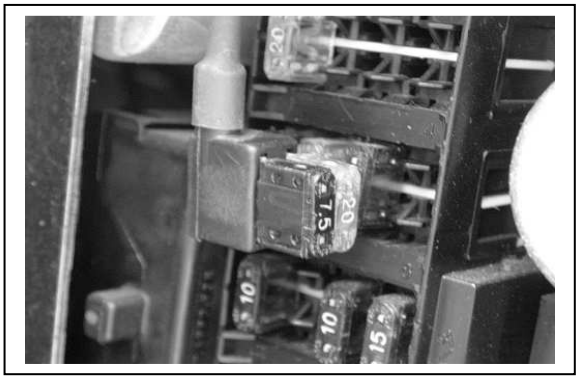
- Add-A-Fuse Installation (PRM-0xx & PRM-1xx) -





Above: Add-A-Fuse Accessory (PRM-0xx and PRM-1xx kits only or available separately). Prong indicated must go to the +12V “hot” side of the fuse receptacle.

- Relay Power Harness Installation (PRM-2xx & PRM-3xx) -

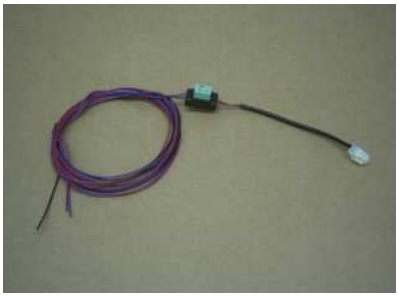


Figure 1

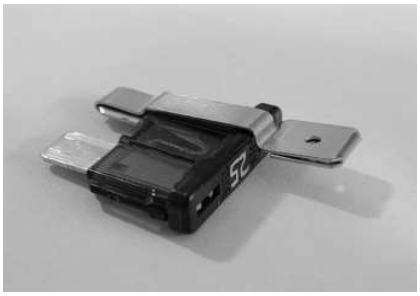


Figure 2

Figure 3

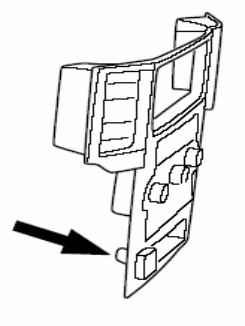


Figure 4

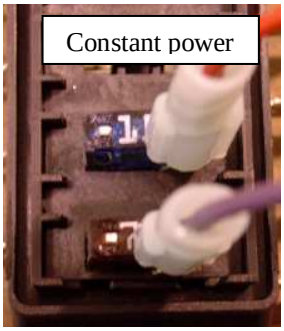


Figure 5

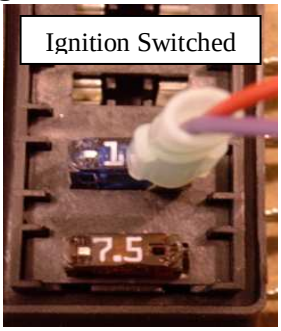


Figure 6

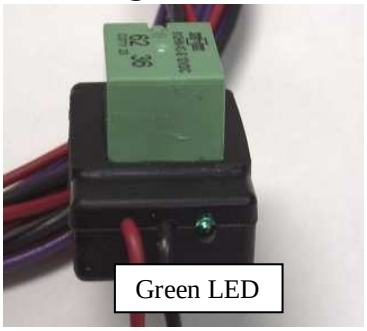


Figure 7

1) Locate interior mounted fuse that supplies the 12V Power Sockets (i.e. used for cell phone, cigarette lighter, etc). If this fuse does not exist in the interior, skip to step #3.

2) Remove fuse from fuse holder. Using test light or voltmeter, determine which side of fuse holder is "hot" and which is "cold". The "hot" side will have 12V when vehicle is running. The "cold" side will not (until fuse is re-inserted). Attach fuse tap to "cold" side of fuse. Re-insert fuse into fuse holder. See Figures 2 & 3.

3) If fuse is not located in interior, you can access "cold" side of fuse by splicing the 12V wire running in back of the Power Socket. See Figure 4.

4) Determine if 12V Power Socket is constantly powered or switched with ignition. If switched, 12V will disappear from fuse and socket when vehicle is off and ignition key is removed.

5) If Power Socket is constantly powered, attach **ONLY** the red wire to cold side of fuse (see Figure 5). Find a switched fuse/power line for the purple wire. Avoid safety related circuits. Purple wire can be connected to low amperage fuses. Be sure to connect purple wire to "cold" side of switched fuse.

6) If Power Socket is ignition switched, attach **BOTH** purple and red wires to fuse tap on "cold" side of fuse (see Figure 6).

7) Connect black wire to ground. A ground ring terminal and ground screw have been included.

8) If all connections are proper, green LED will light only when vehicle is running (See Figure 7).

9) Plug white connector into control module.

- Troubleshooting of the Electrical System -

If the system does not heat up, check the following:

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 utilized in the add-a-fuse added during the installation.
- Ensure that all connections are properly mated and that the 12V DC and ground wires are properly installed. (See wiring diagram)

If the heating elements, switch, and seat harness test OK, then a power problem exists, check the following:

- Using a multi-meter or a test light, start at the power connection and trace back through all of the connectors and the switch to determine where the power loss is occurring. Repair as necessary.

If the fuse continues to fail, check the following:

- Each pair of heating elements that are installed in the vehicle must have their own fuse.

If all six LED's are flashing on the membrane switch or the LED is blinking red on the round rocker switch, check for the following:

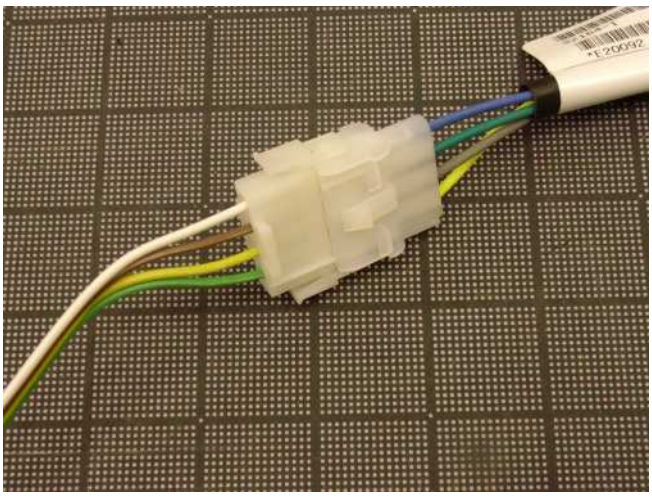
- Verify that all connections are properly made. Cycle power and try again. If the heater element is not plugged into the controller when the power is first applied, the lights will flash and the system will not operate.
- A break in the heating element circuit. To check for this, pull on the brown, blue & yellow wires at all connectors to verify they are properly seated in the connector. Don't forget the connector on the back element. Also check for continuity at the 4 pin connector. The cushion and back elements must be connected and use a multi-meter set to ohms. See Figures 1-2.
- A low voltage condition on the controller input from the fuse box. To verify the voltage input, use a multi-meter set to volts, across red AND black wires at controller module (it should read 11-15V).
- A poor ground connection. Check connections or try another grounding point. Another possible cause is the fuse used for power is computer controlled (try another fuse location). If a new installation the control module is probably working fine. Disconnect power to reset controller and clear old faults.

If only two LED's are flashing on the membrane switch or the LED is blinking yellow on the round rocker switch, check for the following:

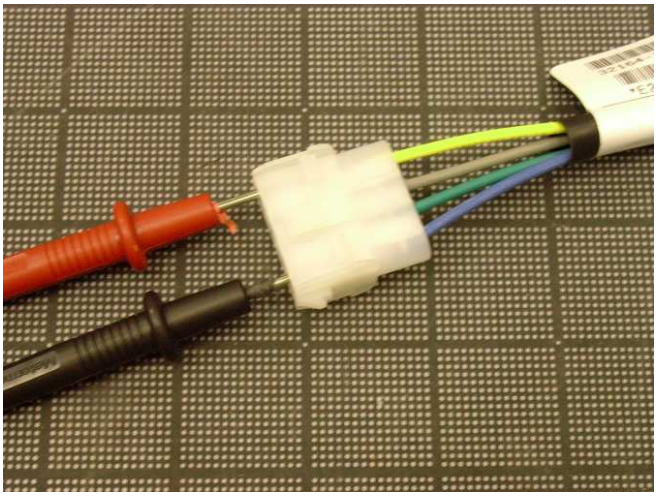
- There is a problem with the heat sensor circuit. Pull on grey & green wires at connectors to verify that they are properly seated in the connector. If possible swap in another control module to see if the LED(s) is (are) still flashing. If so, then the problem is inside the cushion element (replace). If a new installation the control module is probably working fine. Make sure power is off to controller when changing it out.

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.

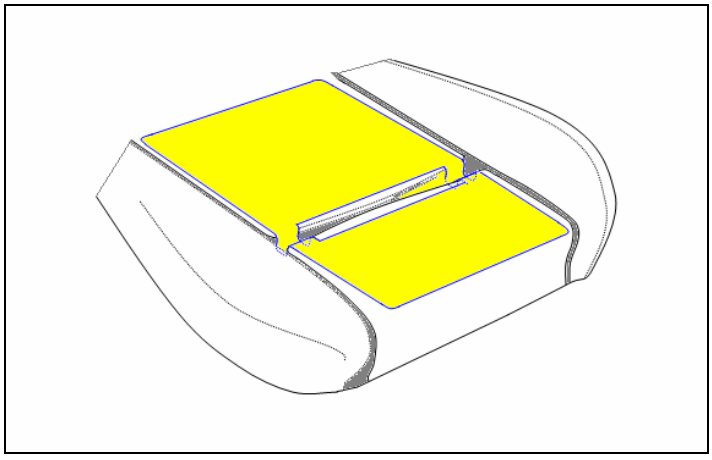
- Troubleshooting (Figures) -



1) This is the 4 Pin connector at the end of the element harness. Disconnect the bonded wire harness and use a multi-meter to check for continuity.



2) Set the multi-meter to ohms, and touch the red and black probes to the yellow and blue pins. The meter should show That there is continuity through the heating wire; if it does not, there is a break in the heating wire.



3) The listing channels or the Velcro hold-downs should line up with the cutouts in the heating elements. Seat heater adheres 100% to the foam bun following the surface into the listing gaps. Opening in heater is aligned with gap.