

Category: BlueCool Truck

Document Number: LIT909380A

Kit Number: BCT010261A

Date Posted: 08/23/2007

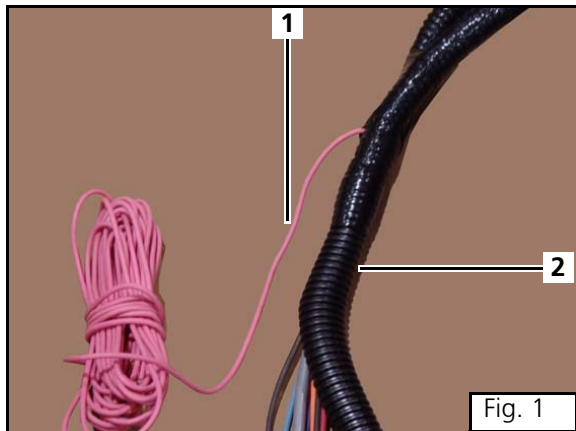
Description: Harness Modification



Overview

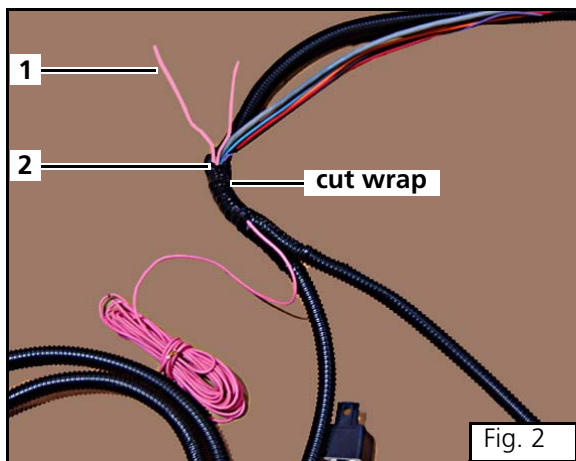
This modification is being implemented for the purpose of improving the systems ability to address sensor failure. Currently, if the ambient temperature switch or the high/low pressure switch become damaged and send intermittent signals it is possible for the inverter to be cycled from ON to OFF and back to ON again. At this point, pressure in the refrigerant system has not equalized and start up of the compressor will put an increased load on the inverter (high inrush current) which can cause a concern. By switching/ running the engine on signal (pink wire) through the ambient temperature switch and the high low pressure switch if an intermittent condition occurs on either sensor the system will go to a 30 minute delay to protect the system from a high load start attempt. If the switches fail completely the system will stop charging completely.

Modification Procedure



Cut pink wire approximately 254 mm (10 in.) from where it exits the main harness.

- (1) Pink Wire
- (2) Main Harness



CAUTION

Do not cut through protective loom when removing harness wrap.

Cut harness wrap (black plastic) from loom in area of modification in order to reroute wires.

Feed both cut ends of the pink wire (approximately 254 mm -10 in.) toward the BCT unit through the protective loom of the main harness.

- (1) Pink Wire
- (2) Main Harness

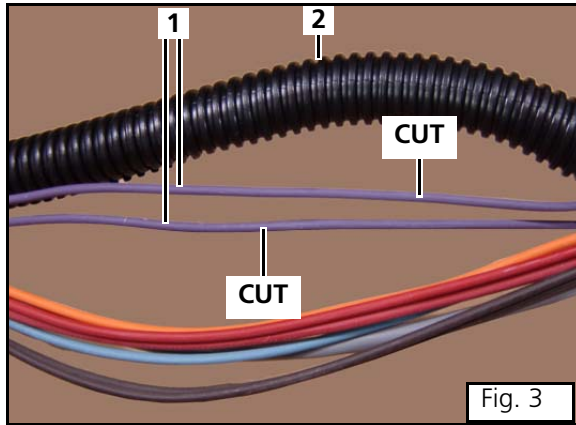
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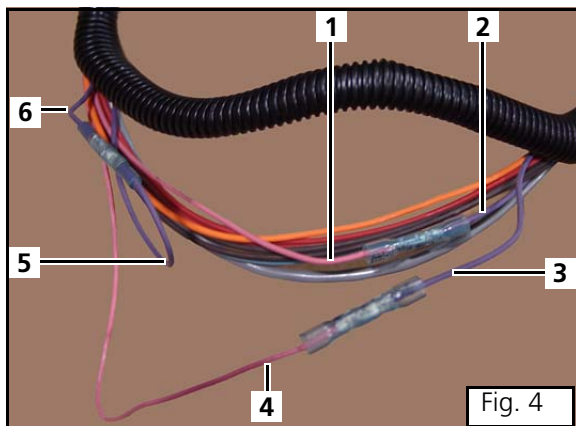
Description: Harness Modification



Identify the two purple wires in the main harness loom just past the branch in the harness.

Cut each of the purple wires offset by approximately 50 mm (2 in.)

- (1) Purple Wires
- (2) Main Harness



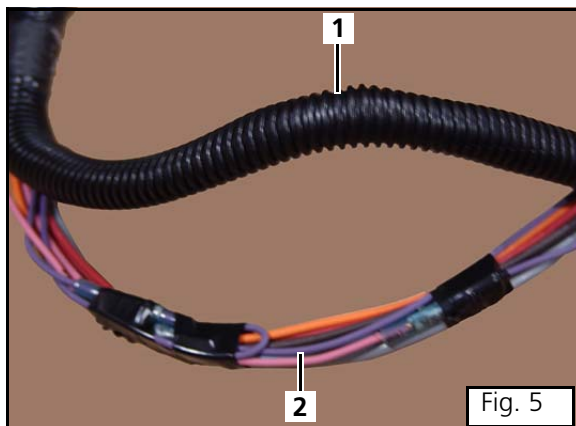
ATTENTION

Use weather resistant butt-splices provided to make the following connections.

The pink wires can be connected to either purple wire going to the BCT unit.

Strip, crimp, and heat shrink the following wires:

- Pink Wire (1) to Purple Wire (2)
- Pink Wire (4) to Purple Wire (3)
- Purple Wire (5) to Purple Wire (6)



Bundle and tape the wires together before placing them back in the protective loom.

- (1) Protective Loom
- (2) Harness Bundle

Wrap the loom with harness wrap or black electrical tape in the area of the modification.

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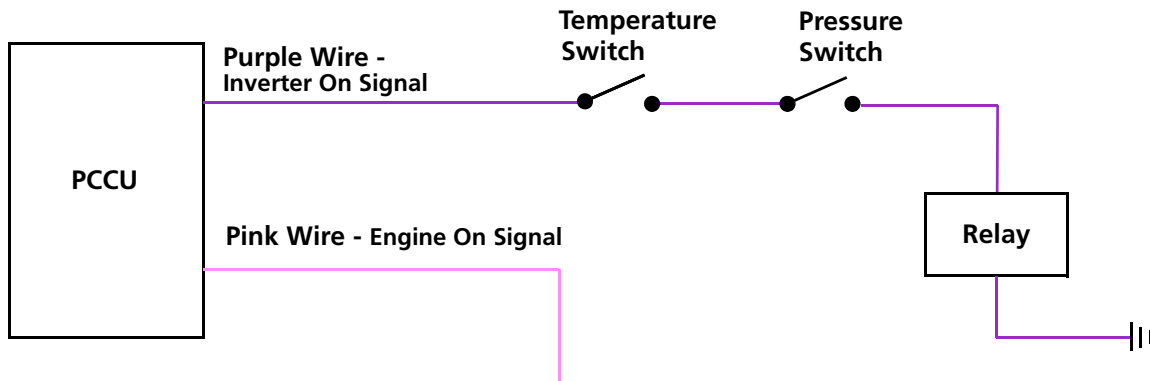
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Harness Before Modification



Harness After Modification

