



# HVAC Relay Repair

**Parts Needed for Installation:**

Qty. 2-1036953-Rly-Fuse Harn Assy A/C Pwr Rep

**Supplies Needed for Installation:**

Solderless Terminal Crimpers

Wire Cutters/Strippers

Heat Gun

**Before starting this repair. Make sure that the main battery switch on the driver's dash is in the "off" position.**

**Relay Repair**

**Step 1.**

Locate Relays by removing lower driver's kick panel.



## Step 2.

The relays will be mounted directly behind the kick panel in clear cases. The connectors will be marked PC 220 and PC221. Remove relays off of the panel to aid in the repair.



The following instruction show only one relay repair, but will be for PC221 also.

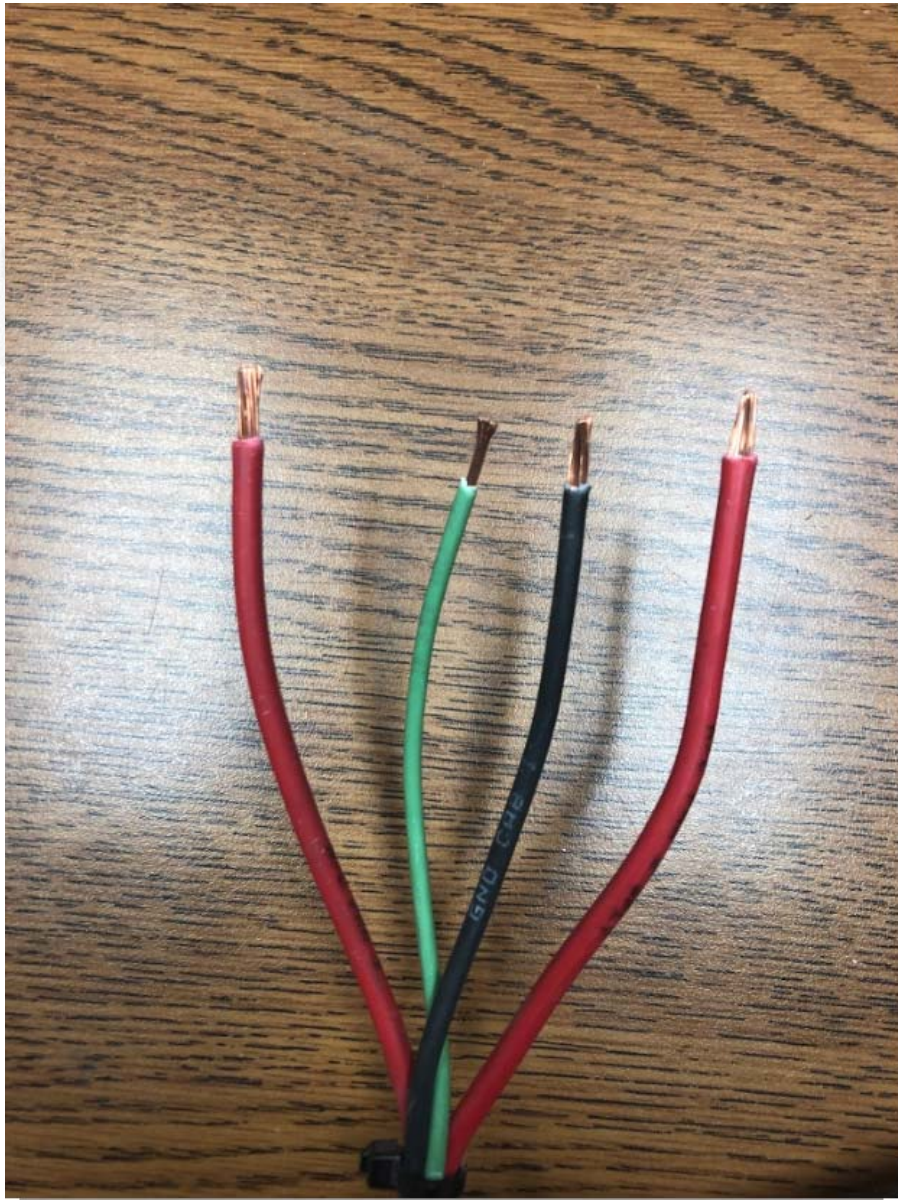
**Step 3.**

Remove the old relay by cutting the wires just below the looped wire.



**Step 4.**

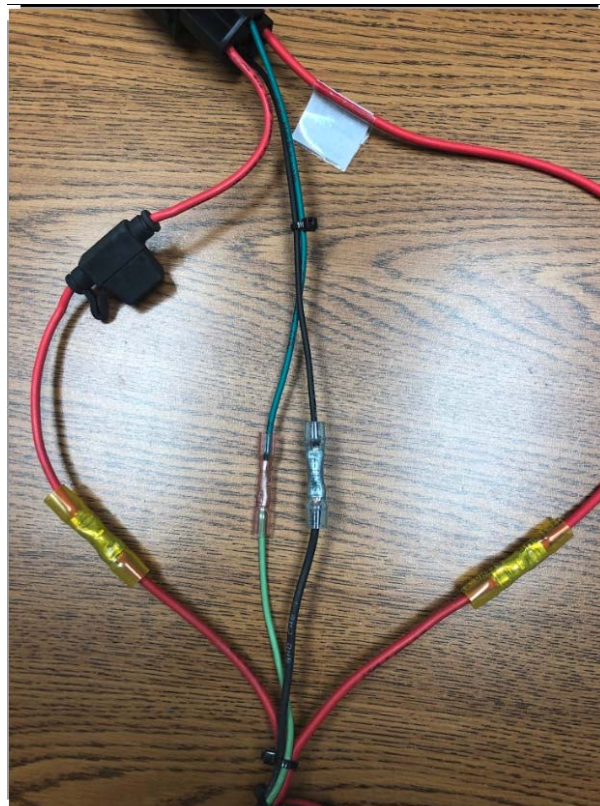
Strip approximately .25" of insulation off of the wire on the harness side.



**Step 5.**

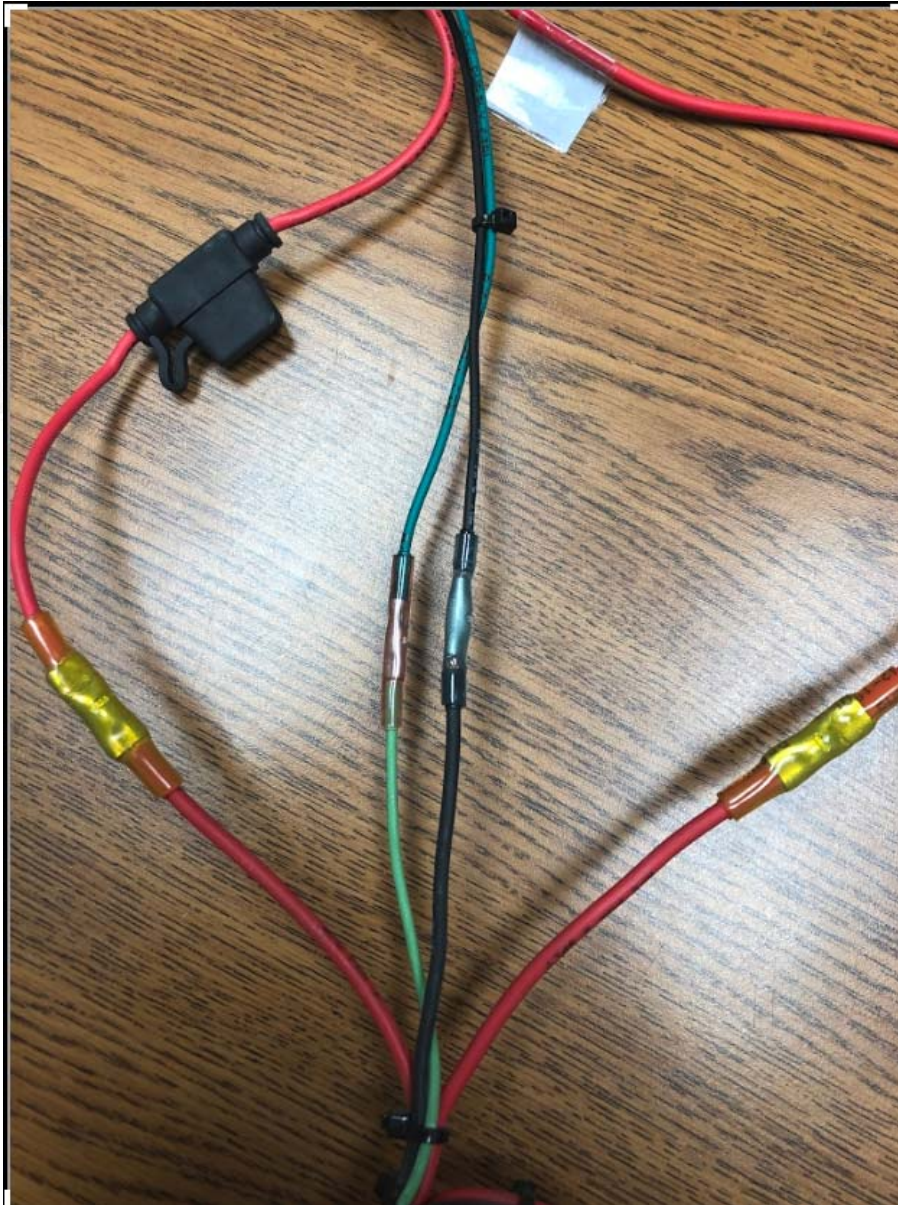
Install the new relay assembly by connecting the wires using the chart below. Insure that all connectors are crimped securely. After crimping, tug slightly on the connection to check.

RELAY	New Assembly		Harness Side	
	Wire Name	Color	Wire Name	Color
PC220	A/C PWR RLY CNTRL	Green	A/C PWR 2-3 RLY CNTRL	Green
	GND A/C RLY CTRL	BLACK	GND CAB 1	BLACK
	A/C PWR	RED	A/C PWR 2 SPLY	RED
	A/C FUSE	RED	A/C PWR 2	RED
PC221	A/C PWR RLY CNTRL	Green	A/C PWR 2-3 RLY CNTRL	Green
	GND A/C RLY CTRL	BLACK	GND CAB 1	BLACK
	A/C PWR	RED	A/C PWR 3 SPLY	RED
	A/C FUSE	RED	A/C PWR 3 SPLY	RED



**Step 6.**

Heatshrink all terminals to complete the connection.



**Step 7.**

Using the bracket on the new relay assembly. Reinstall using the hardware and mounting hole from the old assembly.





**Step 8.**

Secure any loose wiring.

**Step 9.**

Start the truck and turn on the air conditioning system. Check blowers and roof condensers (if applicable) to insure proper operation. If all HVAC systems components are functional, reinstall lower kick panel and this will complete the repair. If, HVAC system components related to this repair are not functional, troubleshoot accordingly. If further troubleshooting assistance is needed, contact E-ONE Technical Support Department.