

Idle Free System Bunk Harness Wiring

Peterbilt 384, 386, 389

See Page 3 of this document & perform the ground wire change on the UBB Heater Relay prior to wiring the bunk blower fan harness!

Wire Connection Location:

The Bunk wire looms are located in the driver side cargo area, on the bunk side of the driver side closet, under the hinged mattress support surface.

Wire Access & Location:

To gain access to the wires, you must locate them within the loom of wires. There are two wires that need to be tapped. Identify them, and separate them from the other wires to confirm you splice into the correct wires.

Wire Numbers & Connections:

1st Pair of Wires (Driver side wall, in cargo area just forward of cargo door behind fuse box)

Turn ignition key to "On" position. Ensure bunk (sleeper) switch is activated on dash. Confirm bunk blower engages. Turn ignition key to "Off" position. Locate and isolate wire number **7300-1**. Cut wire, allowing adequate length of wire on both sides to perform a butt splice. Turn ignition key to "ON" position. The side of the cut wire with 12 VDC power will be butt spliced to the **Brown** Idle free Systems harness wire. **BEFORE PERFORMING ANY CRIMP, TURN IGNITION KEY BACK TO "OFF" POSITION.** The other side of this cut wire will have the **Pink** wire butt-spliced to it. See diagram on following page.

2nd Pair of Wires (NOT USED IN THIS APPLICATION)

Use butt splice on end of yellow wire, and cover other end of splice. This wire will have 12 Volts DC when thermostat switch is in heat position. (Yellow & orange are paired)

3rd Pair of Wires (Driver side wall, in cargo area just forward of cargo door behind fuse box)

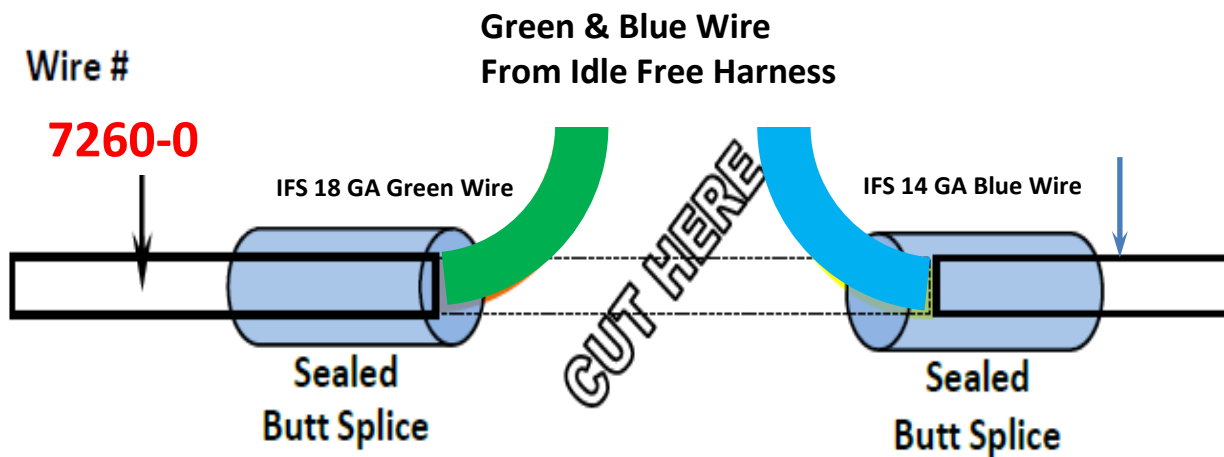
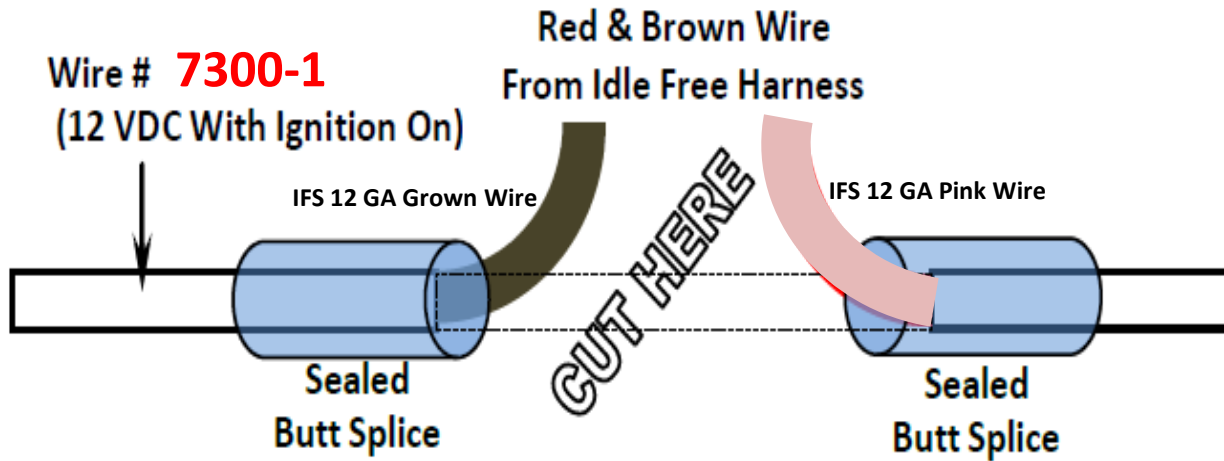
Turn ignition key to "ON" position. Ensure bunk HVAC is activated. Ensure bunk (sleeper) switch ***is activated on dash***. Confirm bunk blower engages. Turn ignition key to "Off" position. Locate and isolate wire number **7260-0 (THIS MUST BE A GRAY WIRE, AS THERE IS A 7260-0 YELLOW WIRE)**. Cut wire, allowing adequate length of wire on both sides to perform a butt splice. The side of the cut wire that display a connection to GROUND **will be butt spliced to the Idle Free LT BLUE** wire. **Prior to PERFORMING ANY CRIMP, TURN IGNITION KEY BACK TO "OFF" POSITION.** The other side of this cut wire will not show a connection to ground. This wire will have the **GREEN** wire butt-spliced to it. See diagram on following page.

Installation Confirmation:

Proper wiring can be confirmed **AFTER** the exterior heater (Webasto coolant heater) has been connected electrically and plumbing is completed. The UBB must have all its necessary wiring in place as well. When this is complete, turn the ignition key to the "On" position and confirm bunk blower operates as normal. Turn ignition key to "Off" position, and turn Idle Free thermostat to *Heat* position. The bunk blower should operate as if the ignition key was in the "On" position, allowing blower speed control and blend door operation.

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Each Heater Control Harness bag contains a bag with the necessary fuses for the truck the system is being installed in.

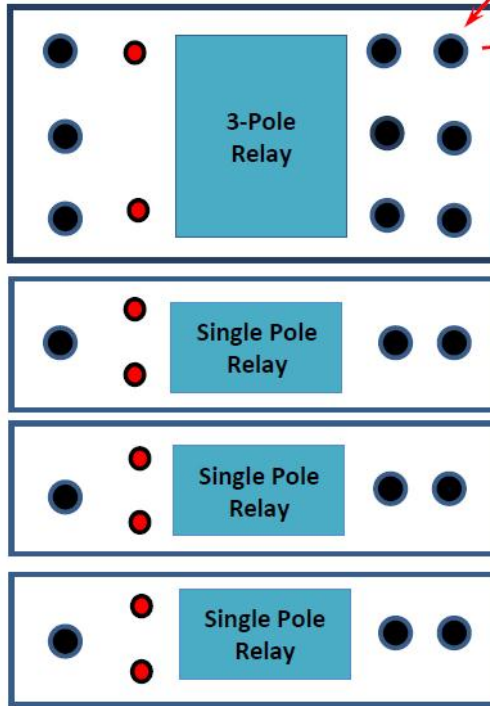
Remember, EVERY truck will have a 2 amp fuse in position #1 (top) for thermostat.

Fuse Number	Peterbilt- All
1	2 amp
2	30 AMP
3	NONE
4	NONE

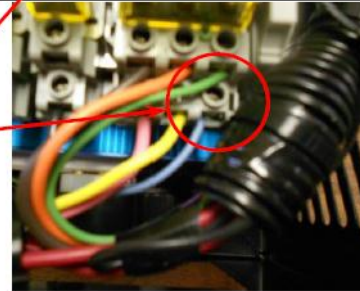
Peterbilt Under-Bunk-Box Alteration

Peterbilt switches circuits on and off through the ground side of a circuit. Due to this, the Idle Free Under Bunk Box needs to have 1 wire changed. The procedure is shown below.

Relay pack located under the bed in the power module (Under Bunk Box).



1. Remove the 18 gauge light blue wire from this terminal.



2. The 18 gauge black wire is tucked back inside the split-loom, near the terminal. Pull it out & strip insulation off the end as shown below.



3. The 18 gauge black wire replaces the blue wire in the terminal shown below.



4. Place a piece of electrical tape over the blue wire removed from the terminal as shown to the right.

