

Idle Free System Bunk Harness Wiring

Volvo VN (ALL)

Wire Connection Location:

There is one location that the wiring has to be routed to from the Under Bunk Box. The 6-wire Idle Free harness needs to be routed to the OE HVAC bunk control panel. This panel is located in the corner where the driver side closet and wall meet.

Wire Access & Location:

Route these wires up into the control panel area for connection to the truck wire harness. There is a wire raceway behind this close out panel. Use of a guide wire is sometime necessary to get the 6-pin harness up and into this raceway. Once inside the raceway, the wires can be pulled into the control panel area.

Wire Numbers & Connections:

1st Pair of Wires (Wire is behind control panel on bunk side of driver closet door F48A1 IS PIN 10 IN GREEN PLUG. Be advised the F48A1 may look like F46A1, but it is in Pin 10 in the green plug.)

Turn ignition key to "On" position. Ensure bunk HVAC is activated. Confirm bunk blower engages. Turn ignition key to "Off" position. Locate and isolate wire number **F48A1**. Cut wire, allowing adequate length of wire on both sides to perform a butt splice. **BE ADVISED THIS WIRE HAS 12 VOLTS AT ALL TIMES.** The side of the cut wire with 12 VDC power will be butt spliced to the **Brown** Idle free Systems harness wire. 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 (Wire is behind control panel on bunk side of driver closet corner F60A1 WIRE IS IN THE TOP ROW OF BLACK CONNECTOR, wire is in position 11 of this black plug.)

The second set of wires that need connection at the Bunk Control panel is **F60A1**. Performing the same procedure concerning the ignition switch, determine which side has 12 volt power with the ignition switch on, and butt splice the Idle Free **Orange** wire to this wire. The other side of this cut truck wire will be butt spliced to the Idle Free **Yellow** wire. See diagram on following page.

3RD Pair of Wires

NOT USED IN THIS APPLICATION

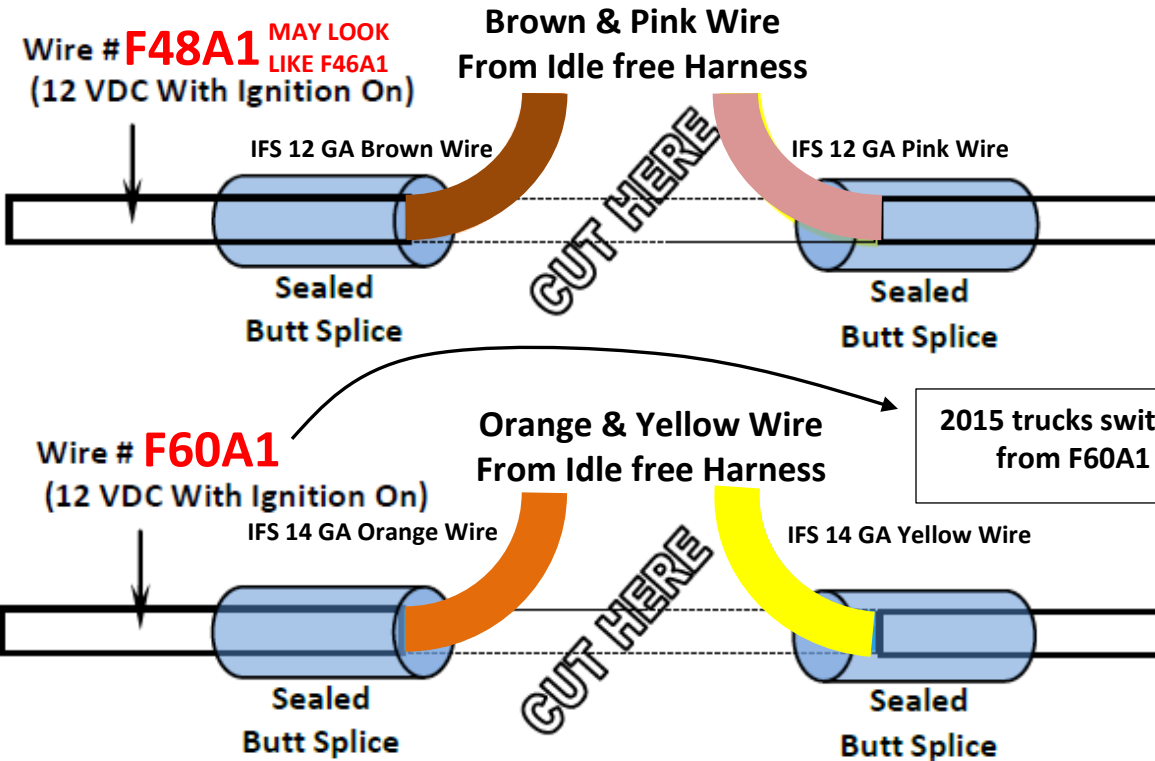
2015 trucks switched this wire from F60A1 to F60-A2

Installation Confirmation:

Proper wiring by can be confirmed **AFTER** the exterior heater (Webasto coolant heater) has been connected electrically and plumbing is completed. The POWER MODULE 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. **IT MAY TAKE SEVERAL SECONDS FOR THE BLOWER TO ENGAGE, AS THE COMPUTER FOR THE DC BRUSHLESS MOTOR MUST PROCESS THE SIGNAL.**

The following page shows the connections between the Idle Free wire harness and the truck wire harness.

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PLEASE NOTE FUSE PLACEMENT BELOW

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 5 amp fuse in position #1 (top) for thermostat.

Fuse Number	Volvo - All
1	5 amp
2	30 amp
3	10 amp
4	NONE

