

Idle Free System Bunk Harness Wiring

FREIGHTLINER CASCADIA

Wire Connection Location:

The bunk wire looms are located in the bunk mattress side of the driver side closet, going up the back wall of this closet, and to the OE HVAC control located on that wall. There is a second location, in the bottom of the driver side closet where the separate set of heavier gauge wires (12 GA) Red & Brown wires must be routed.

Wire Access & Location:

Route the 6-pin harness & the 2 pin (red & brown) harness along the back wall of the bunk to the driver side wall, going forward with the harness to the back side of the driver side closet. There is a vertical wire harness duct located on the back side of the closet, where the wiring goes up to the OE HVAC control. At the base of the harness duct, the 2-pin harness (with the red & brown wires) must be separated, and run forward to the area under the driver side closed, near the OE HVAC system location. Once this is done, remove the control and expose wiring to gain access to needed

Wire Numbers & Connections:

1st Pair of Wires (Blue wire, located at blower motor, lower driver side closet floor)

Locate and isolate wire **98A 2301**. Cut wire allowing adequate length of wire on both sides to perform a butt splice. The cut side of the wire with 12 VDC power (with ignition "On") is butt spliced with the **Brown** Idle free wire. The other side of this cut wire will have the **Pink** wire butt spliced to it

2nd Pair of Wires (Blue wire in Brown plug harness located behind bunk HVAC control panel)

Locate and isolate wire **98G 2304**. Cut wire allowing adequate length of wire on both sides to perform a butt splice. Following the same sequence as shown for the 1st pair of wires, the cut side of the wire with 12 VDC power (with ignition "On") is butt spliced with the **Orange** Idle free wire. The other side of this cut wire will have the **Yellow** wire butt spliced to it

3rd Pair of Wires (Pink Wire in brown plug located behind bunk HVAC control panel)

Locate and isolate wire **220 1106**. Cut wire allowing adequate length of wire on both sides to perform a butt splice. Following the same sequence as shown for the 1st pair of wires, the cut side of the wire with 12 VDC power (with ignition "On") is butt spliced with the **Green** Idle free wire. The other side of this cut wire will have the **Blue** wire butt spliced to it

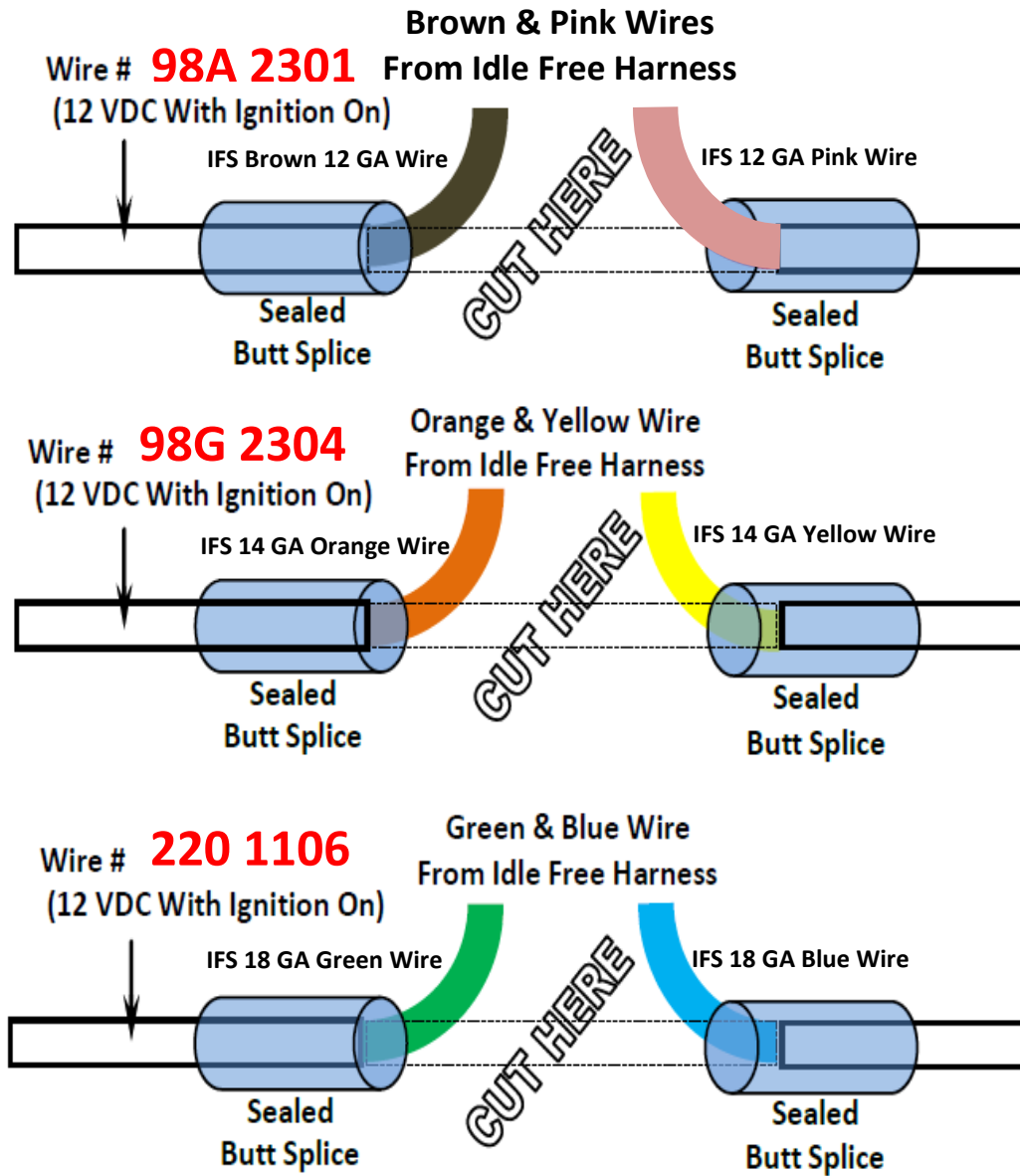
Installation Confirmation:

Proper wiring by 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.

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

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Fuse Number	Freightliner-All
1	5 amp
2	30 amp
3	10 amp
4	5 amp

