

# Idle Free System Bunk Harness Wiring

## Western Star, 4800, 4900

### 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 bunk interface module. This module is located in the base of the driver side closet.

### Wire Access & Location:

Routing the 6-pin IFS harness over to, and into the base of the driver side closet. This is where the connection to the truck wire harness will take place. There is a relay secured to the floor. This relay must be removed from the floor for the wire splice to occur.

### Wire Numbers & Connections:

#### 1<sup>st</sup> Pair of Wires (Wire is located along the floor under the driver side closet.)

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 **HT56A**. 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.

#### 2<sup>nd</sup> Pair of Wires (Wire is located along the floor under the driver side closet.)

The second set of wires that need connection at the Bunk Control panel is **HT57A**. 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.

#### 3<sup>rd</sup> Pair of Wires (NOT USED IN THIS APPLICATION)

Use butt splice on end of blue wire, and cover other end of splice. This wire will have 12 Volts DC when thermostat switch is in heat position.

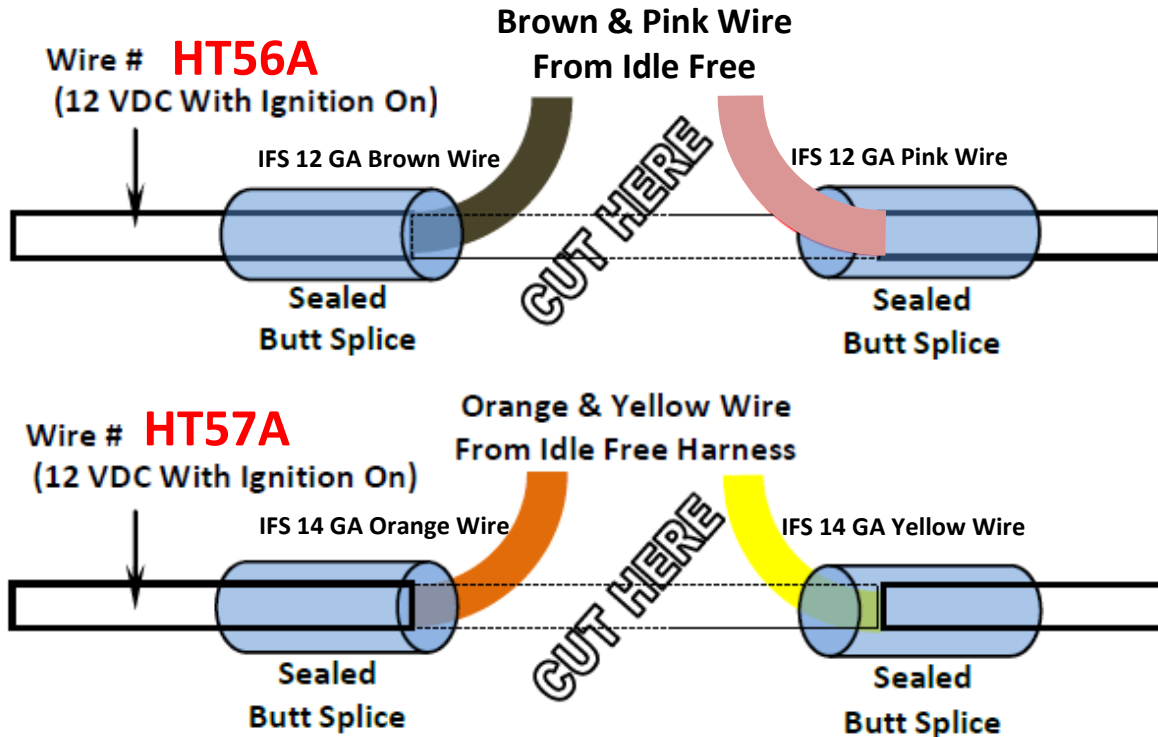
### Installation Confirmation:

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 harness.

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

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