

# Idle Free System Bunk Harness Wiring

## KENWORTH T660, T800, W900

### Wire Connection Location:

The single wire that needs to be spliced is located on the back wall of the driver side closet.

### Wire Access & Location:

A pair of wires is routed from the Under Bunk Box along the underside of the forward bunk support cross beam, to the driver side of the truck. From there it is brought up to the bunk HVAC control panel area where the splice is made.

### Wire Numbers & Connections:

#### 1<sup>st</sup> Pair of Wires (Wire is located behind bunk OE HVAC control panel)

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 **P77SH or P77SH2**. 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 (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)

#### 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. (blue & green are paired)

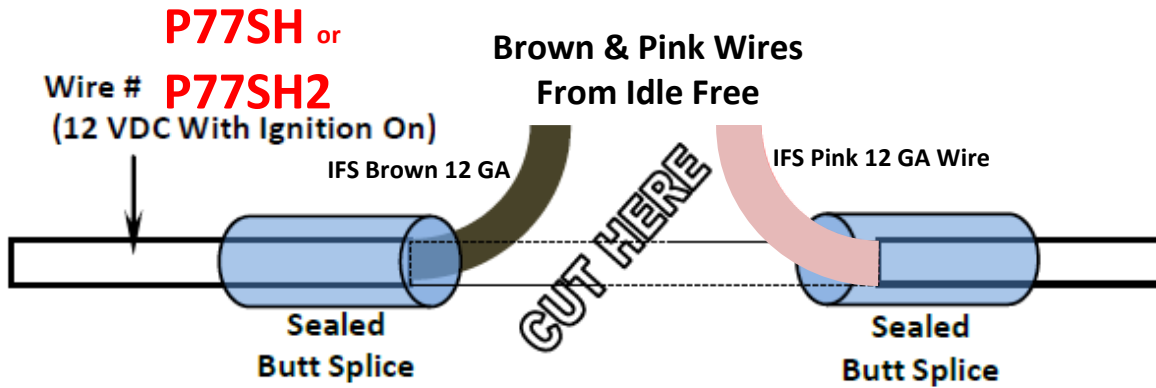
### Installation Confirmation:

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.

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	Kenworth-All
1	5 amp
2	30 amp
3	NONE
4	NONE

The Fan harness connects into the back side of the under bunk (bed) box. A 6 pin connector body contains 2 wires, Brown and Pink, both 12 gauge

Pink & Brown = 12 Gauge (FAN)

Mack & Kenworth

