



United Pacific

HIGH POWER LED PROJECTION HEADLIGHT

Item Numbers: 31090, 31091, 31092, 31093

Connect Plug ① ② to Original OE Wire Harness

① Turn signal / LED light bar; ② Low beam / High beam

LED Position Light Bar Wiring ③

- Red Wire: 12 Volt Positive
- Black Wire: Ground Negative

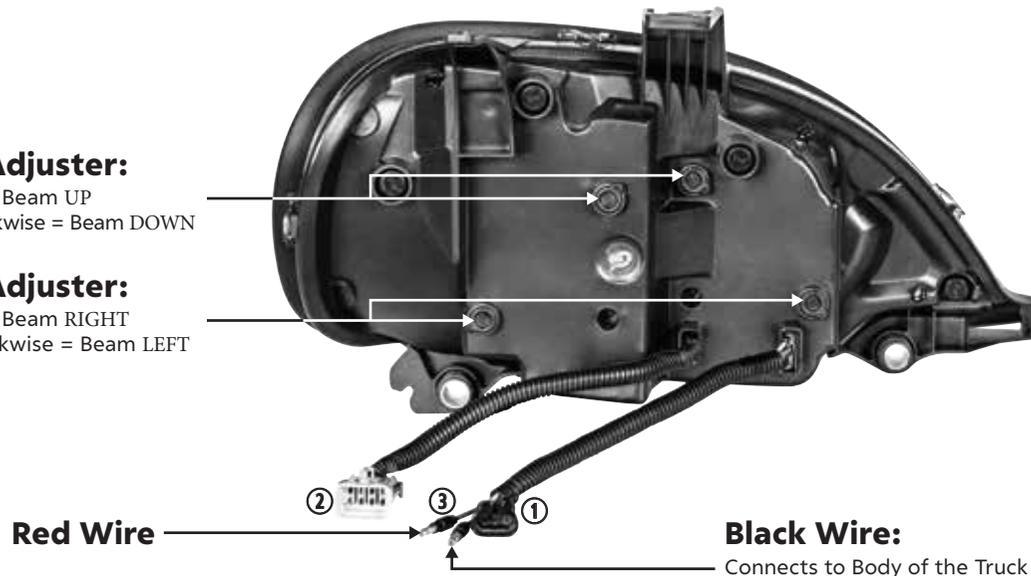
The red positive wire for the LED position light must NOT be hooked into any of the OE harnesses. Run a power wire which activates the LED position light bar by a separate switch or accessory that only comes on when the truck ignition is "ON" and running. Attach the ground (black wire) to the chassis of the truck for proper grounding.

Upper Adjuster:

Clockwise = Beam UP
Counterclockwise = Beam DOWN

Lower Adjuster:

Clockwise = Beam RIGHT
Counterclockwise = Beam LEFT

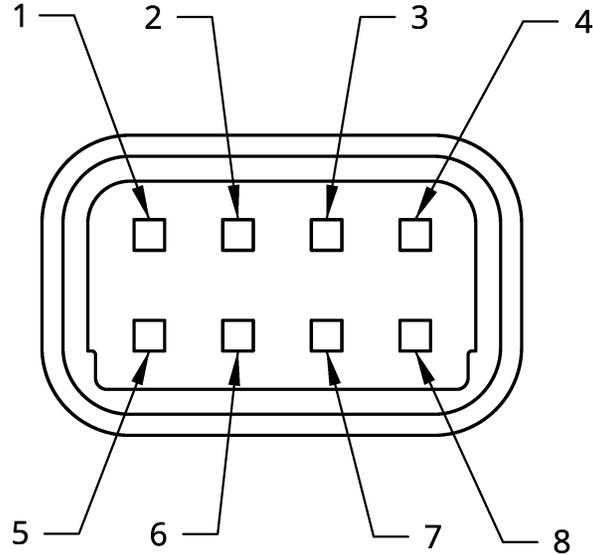


Normal Fogging / Condensation

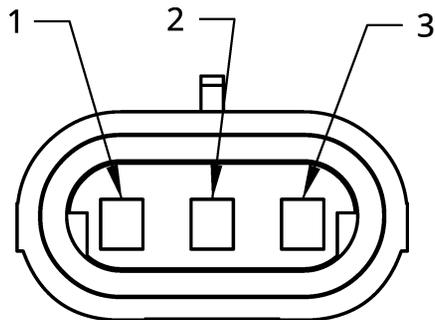
This bulletin provides information regarding headlights that may experience fogging or condensation inside of the headlamp assembly. A drop in air temperature may cause condensation to form on the inside of a cool headlamp lens. Generally, fogging is considered normal and can be eliminated by turning on the headlamp with the engine running for several minutes. In most cases, operating the vehicle in normal driving condition will clear the headlamp fogging. Headlamp assembly replacement **WILL NOT** be necessary in most cases.

Note

- If any of the following conditions occur, please consult with a professional mechanic to determine the water source:
 - If condensation/fogging fails to dissipate after operating the headlight with the engine running for 30 minutes
 - If water pooled inside the headlamp
- A high pressure washer may also cause water to be forced into the headlamp assembly.

Connector 1

Pin#	Wire	Function
1	Empty	Not Used
2	White	High Beam (+)
3	Empty	Not Used
4	Black	Ground (-)
5	Brown	Low Beam (+)
6	Empty	Not Used
7	Empty	Not Used
8	Empty	Not Used

Connector 2

Pin#	Wire	Function
1	Yellow	Turn Signal (+)
2	Green	Parking Light (+)
3	Black	Ground (-)

NOTE: On some trucks, the pinout might need to change from 1-2-3 to 3-2-1. This is accomplished with a standard paper clip (larger size works best). Release the tab on #1 and #3, and swap the positions. Remember to slightly bend the tab up before reinserting it.

TITLE			
Freightliner Columbia Headlight Pinout			
SIZE	DWG NO.	REV.	
A	08052022		
SCALE	WEIGHT	SHEET	
2:1		1 of 1	