

## UNIVERSAL HEADLIGHT ASSEMBLY WITH OPTIONAL BACKLIT AUXILIARY FOR KENWORTH | FREIGHTLINER | WESTERN STAR

(TLED-H124, TLED-H125, TLED-H126, TLED-H127, TLED-H134, TLED-H135, TLED-H136, TLED-H137)



### TOOLS REQUIRED:



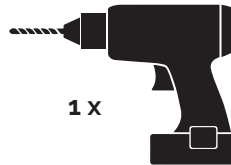
1 X

PHILLIPS SCREWDRIVER



1 X

FLAT SCREWDRIVER



1 X

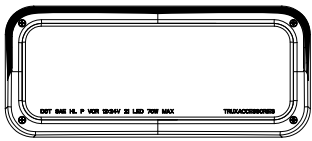
DRILL



1 X

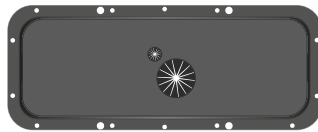
9mm WRENCH

### BOX CONTENTS:



1 X

UNIVERSAL HEADLIGHT ASSEMBLY  
(DRIVER OR PASSENGER)



1 X

TRUX HEADLIGHT  
HOUSING BUCKET



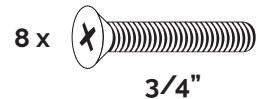
1 X

MALE SPADE  
CONNECTOR



1 X

CAPS FOR  
ADJUSTMENT SCREWS



8 X

3/4"

#8-32 (3/4" LONG) PHILLIPS  
FLAT HEAD MACHINE SCREWS



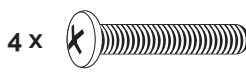
8 X

#8-32 MACHINE SCREW  
NUTS (HEX)



8 X

#8 FLAT WASHERS



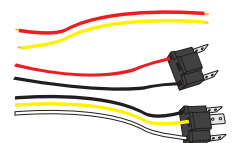
4 X

STAINLESS STEEL VISOR SCREWS



1 X

4mm SOCKET DRIVER



EXTENSION WIRES (RED, YELLOW)  
& PLUGS (3 PRONG, 2 PRONG)

**PLEASE NOTE:**

An assistant is required to assemble the Trux Universal Headlight Assemblies onto a Kenworth, Freightliner or Western Star.

## 1) REMOVE CURRENT BEZEL, HEADLIGHTS & OEM HEADLIGHT BUCKET

If the OEM bucket is secured with rivets, drilling or grinding will be required. Unplug the current headlights from the truck, remove the wiring by opening the hood and detaching the OEM rubber gasket from the housing.

Note: The Trux Headlight housing bucket is designed only for Trux Universal Headlight Assemblies and cannot be used with any OEM headlight configuration.

**1a****1b****1c****1d****1e**

## 2) CLEAN AND PREP THE TRUCK HEADLIGHT AREA

Trux headlight housing bucket mounts onto the OEM mounting holes; however, some hoods require drilling, in order to widen the holes to accommodate the housing screws.

**2a****2b**

### 3) HOUSING BUCKET INSTALLATION

Open the hood to access the back of the headlight area where the housing bucket will be installed. Position the Trux housing bucket to the 4 center mounting holes of the hood. In this step, you will need an assistant, as one will tighten the 4 screws from the front of the hood, while the other holds the washer and nut in place with a wrench on the backside of the hood. Once the housing bucket is mounted, pass the wire harness from the truck through the hole in the housing bucket.


**3a**

**3b**

**3c**

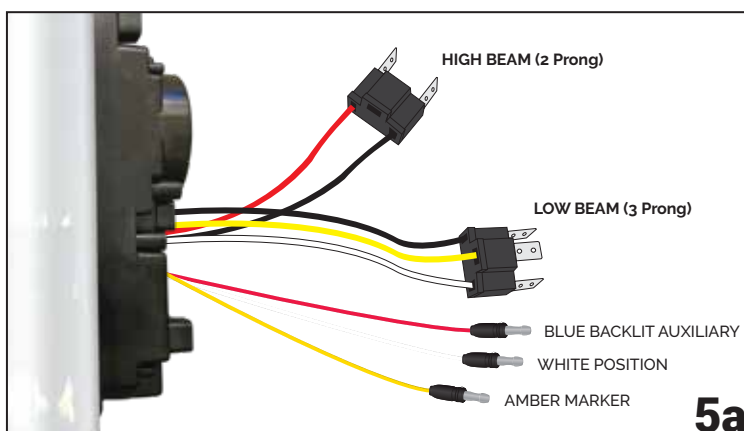
**NOTE:** Images are for Installation reference ONLY (The Housing Bucket may appear different)  
 If required, Trux has provided an additional wire harness to replace any OEM damaged wires.

### 4) DETACH THE HEADLIGHT VISOR FROM THE HEADLIGHT ASSEMBLY

Unscrew the headlight visor from the headlight assembly and place the screws in a secured area.

### 5) WIRING THE HEADLIGHT ASSEMBLY

Close the hood and test the wire connections by plugging the Trux Headlight Assembly connectors into the headlight plugs as shown in the diagram below. (Diagram 5a)


**5a**

#### HIGH BEAM (2 Prong)

- GROUND (NEGATIVE)
- HIGH BEAM (POSITIVE)

#### LOW BEAM (3 Prong)

- GROUND (NEGATIVE)
- LOW BEAM
- LOW BEAM (POSITIVE)

**BACKLIT AUXILIARY FUNCTION:** Blue Backlit function has an independent wire that will allow you to turn it off when driving in any region where Blue is illegal.

#### HEATED FUNCTION (TLED-H126, TLED-H127, TLED-H136, TLED-H137):

Heating Element will automatically activate at 46.4° F or 8° C

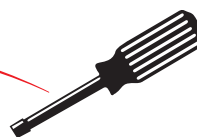
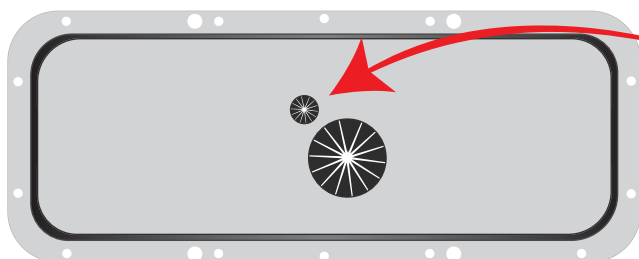
## 6) MOUNT THE HEADLIGHT ASSEMBLY

Once you configured the wiring, tested the functions and adjusted the beams, open the hood and position the headlight assembly to the hood mounting holes. Once positioned, fasten the remaining flat screws, washers and nuts in the remaining mounting holes as mentioned in step 3.


**6b**

## 7) ADJUST THE HEADLIGHT BEAMS

The headlight beam can be adjusted with the provided 4mm socket driver. Using the hole in the back of the housing bucket, insert your socket driver and adjust the pin clockwise or counter clockwise at the location shown below.


**PROVIDED 4mm  
SOCKET DRIVER**

### UP/DOWN HEADLIGHT ADJUSTMENTS



CLOCKWISE:  
ADJUSTS HEADLIGHT  
**DOWNWARDS**



COUNTER-CLOCKWISE:  
ADJUSTS HEADLIGHT  
**UPWARDS**

## 8) ATTACH THE HEADLIGHT VISOR

Close the hood. Align the headlight visor to the front of the headlight assembly and use the provided screws to tighten the visor into place.



## TROUBLESHOOTING TIPS:

PROBLEM	SOLUTION
1- Weak or improper lighting 2- Error on the dashboard 3- Light flickering	You may need to install a load resistor on each light that is experiencing these issues. Trux offers the TU-1039 for LED headlights (80W). Load resistors are used often for vehicles that originally came with Halogen bulbs. The truck's computer is programmed to expect a higher wattage draw from halogens and may sometimes send errors to the light if it is drawing the lower wattage draw of LEDs. These errors can present themselves in different ways such as intermittent flashing. The TU-1039 load resistor is the first line of defense for these issues. It will compensate for the low power wattage of the LED to make sure there is no error message on the dash so that no re-programming is required. Once installed, it will 'trick' the vehicle's computer and allow it to send the proper current needed for the LED.
4-My high beam is not working 5-My low beam is not working	Use TPIG-H1 Adapter if you have Vehicle like socket (46,56) this will switch the ground of the low beam to align with the vehicle. If the H4 plug is the sealed version, you can switch the wires on your truck. These are universal headlights and each of the different trucks/years that they fit may have their ground wire on different sides or colors. In some cases, you may need to switch the black and red wire on the 'high beam' 2-wire H4 connector in order to switch the ground of the high beam. <u>[Note: Our LED headlights do not work on a double negative system].</u>