



# INSTALLATION GUIDE

## UNIVERSAL HEADLIGHT ASSEMBLY FOR KENWORTH | FREIGHTLINER | WESTERN STAR

(TLED-H100, TLED-H101, TLED-H102, TLED-H103)



### TOOLS REQUIRED:



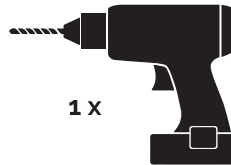
1 X

PHILLIPS SCREWDRIVER



1 X

FLAT SCREWDRIVER



1 X

DRILL

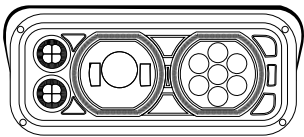


1 X

9mm WENCH

### BOX CONTENTS:

1 X



UNIVERSAL HEADLIGHT ASSEMBLY  
(DRIVER OR PASSENGER)

1 X



TRUX HEADLIGHT  
HOUSING BUCKET



1 X

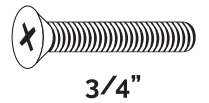
MALE SPADE  
CONNECTOR



4 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

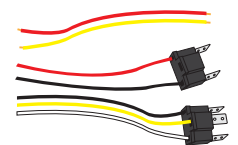


STAINLESS STEEL VISOR SCREWS

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 housing bucket.



3a



3b



3c

**NOTE:** 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.



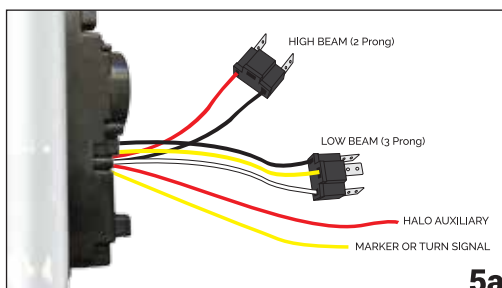
4a

## 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 diagrams below. The clear amber lights can function as a marker or turn signal, see below for optional connections. (Diagram 5a)

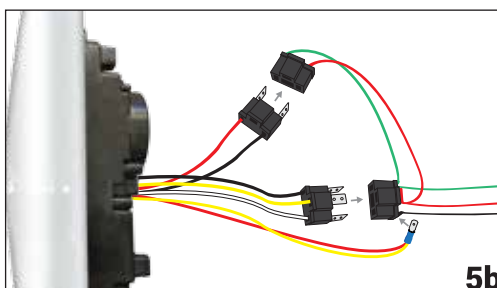
**MARKER & HALO FUNCTION WITH LOW BEAM:** Combine the separate yellow wire (Marker function) and red wire (Halo function) to the provided Male Spade (MS) electrical connector. Plug the MS connector into the black wire socket of the 3 wire OEM Plug. (Diagram 5b)

**HALO & TURN SIGNAL FUNCTION WITH LOW BEAM:** Daisy chain the yellow wire to a turn signal light (eg. Double Face Fender Light). Attach the MS electrical connector to the red wire (Halo function) and connect the MS into the black wire socket of the 3 wire OEM Plug. (Diagram 5c)



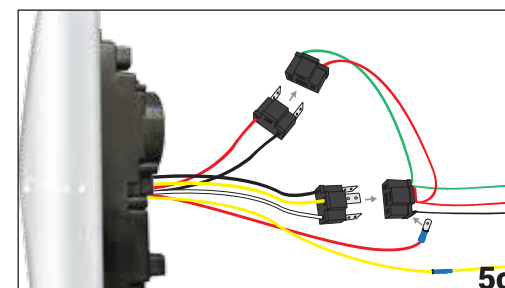
5a

MARKER & HALO FUNCTION WIRING CONFIGURATION



5b

TURN SIGNAL & HALO FUNCTION WIRING CONFIGURATION

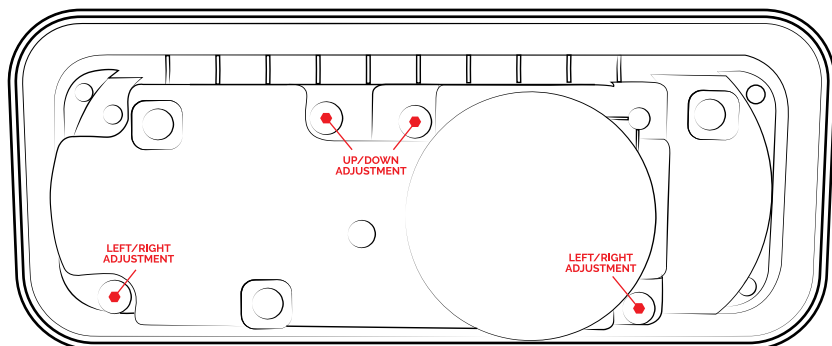


5c



## 6) ADJUST THE HEADLIGHT BEAMS

The headlight beam can be adjusted with the provided 4mm socket driver. Adjust the pins clockwise or counter clockwise at the locations shown below.



PROVIDED 4mm  
SOCKET DRIVER

### UP/DOWN HEADLIGHT ADJUSTMENTS



CLOCKWISE:  
ADJUSTS HEADLIGHT  
DOWNWARDS



COUNTER-CLOCKWISE:  
ADJUSTS HEADLIGHT  
UPWARDS

### LEFT/RIGHT HEADLIGHT ADJUSTMENTS



CLOCKWISE:  
ADJUSTS HEADLIGHT  
LEFT



COUNTER-CLOCKWISE:  
ADJUSTS HEADLIGHT  
RIGHT

## 7) 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 4 remaining flat screws, washers and nuts in the remaining mounting holes as mentioned in step 3.



6a



6b

## 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.



7a



7b