

INSTALLATION AND WIRING INSTRUCTIONS FOR MODEL TCLF2 TRAFFIC CLEARING LIGHT RETROFIT KIT

A. GENERAL.

Model TCLF2 Retrofit Kit allows easy installation of the traffic clearing light option in place of the inboard rotating light mechanism on all Federal StreetHawk® Light Assemblies. If two traffic clearing light assemblies are desired, a second retrofit kit must be purchased.

Before attempting installation, insure that the parts shown in the KIT CONTENTS LIST (paragraph G.) have been supplied.

B. DOME AND GRILLE REMOVAL (See figure 1).

1. Turn-off power to Light Assembly.
2. Remove the three (3) #10 hex washer head thread-forming screws which secure the upper speaker grille to the lower speaker grille. Lift upper grille away from lower grille.
3. Remove the eight (four on each side) #8-32 x 7/8 hex head screws from the front and rear edges of the dome.

4. Carefully remove the domes. Ensure that the bulkhead gasket remains tucked in its groove.

WARNING

To avoid electrical shock, disconnect the power cable before performing the installation procedure.

C. INSTALLATION ON NON-STROBE UNITS.

To install the traffic clearing light retrofit kit on a Federal StreetHawk Light Assembly without strobe lights, proceed as follows:

1. Remove the driver's side inboard rotating light mechanism by removing the three (3) screws which secure the mechanism to the base.
2. Remove the stationary mirror assembly by removing the screw which secures it to the base.
3. Disconnect the black motor wire at the ground screw.

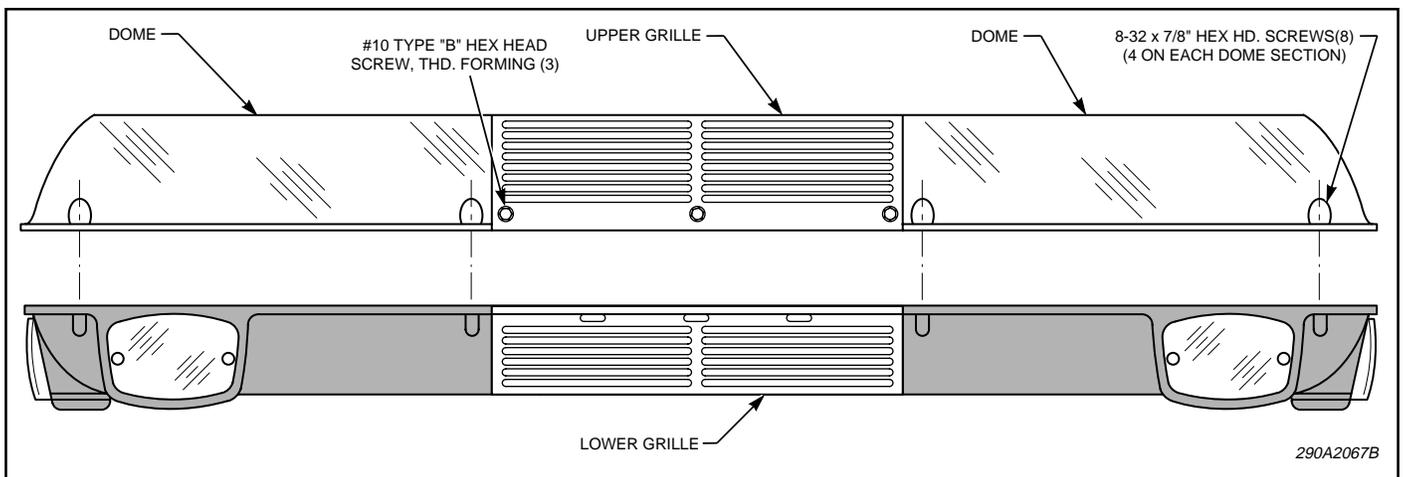


Figure 1.

4. Disconnect the connector, which secures a motor wire and a lamp wire, from the terminal block. Note this terminal block location. It will later be used when the traffic clearing light is being connected.

5. Position the base plate assembly (supplied) on the Light Assembly base as shown in figures 2 and 3. Secure the base plate assembly with three #10 x 1/2 hex head screws (supplied).

6. Secure the traffic clearing light assembly to the base plate assembly with three (each) 10-32 hex nuts and #10 flat washers (supplied) as shown in figure 2.

7. Install the lamp (supplied) in the lamp socket.

8. If two traffic clearing lights are going to be installed, also perform steps 1 through 7 on the passenger side of the Light Assembly. See figure 3 for the mounting location.

D. INSTALLATION ON STROBE UNITS.

To install the traffic clearing light retrofit kit on a Federal StreetHawk Light Assembly with strobe lights, proceed as follows:

1. If a single traffic clearing light is going to be installed, perform steps C.1. through C.7.

2. When two traffic clearing lights are going to be installed, follow the procedure described in steps C.1. through C.8. Note that the passenger side base plate assembly is installed adjacent to the molded terminal block as shown in figure 4.

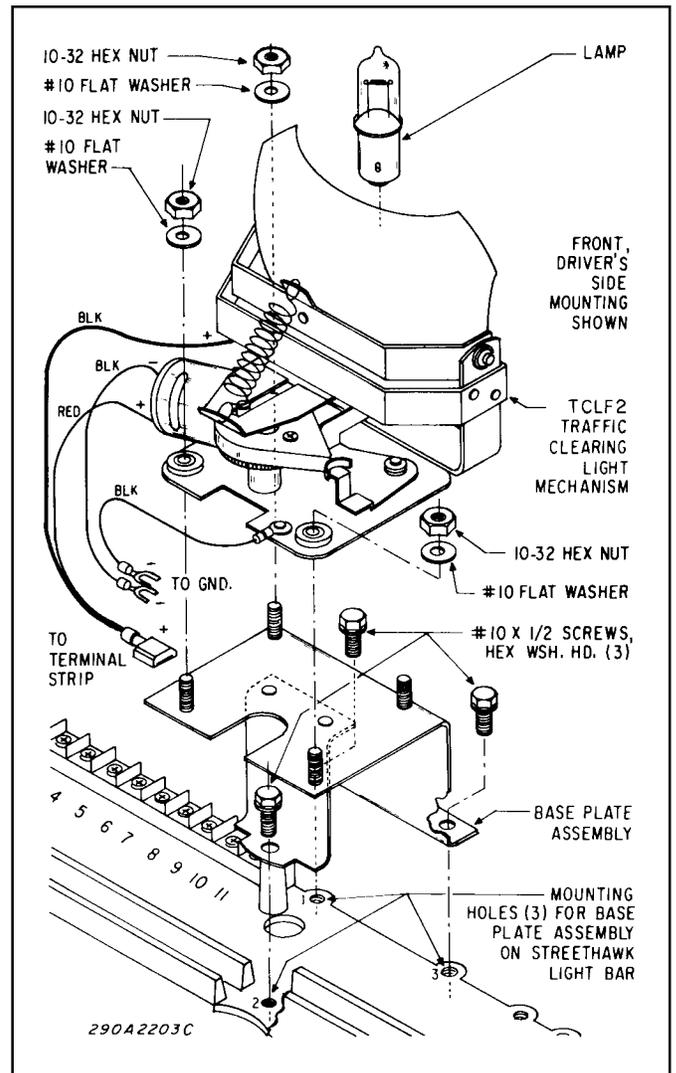


Figure 2.

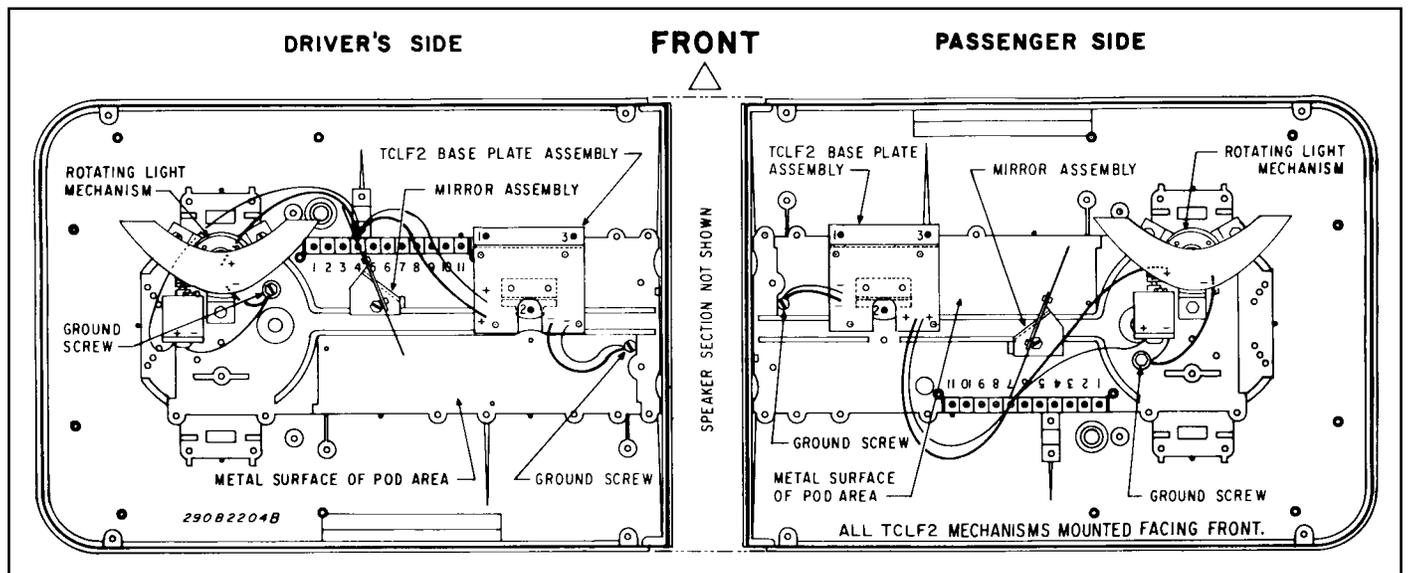


Figure 3.

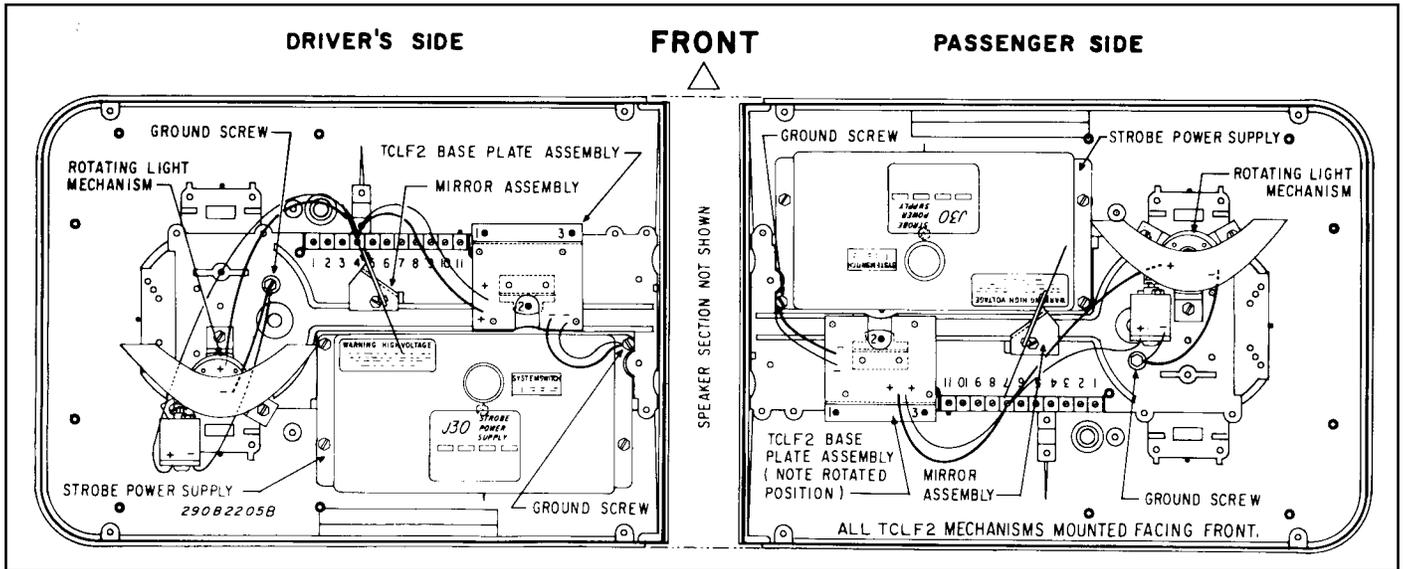


Figure 4.

E. WIRING INSTRUCTIONS.

After performing the procedure described in this section, the traffic clearing light will be activated when the primary rotating warning lights are switched "on". To wire the traffic clearing light, proceed as follows:

1. The lamp lead and "positive" motor lead are connected in one insulated female quick-disconnect terminal. Connect this terminal to the same terminal block position that previously had rotating light mechanism wires connected (refer to step C.4.). Refer to figure 3 or figure 4 and note that this is position 4 on the driver's side terminal block and position 7 on the passenger side terminal block.

2. On units without the strobe light option installed, connect the motor ground wire and ground wire from the traffic clearing light base to the metal frame of the Light Assembly. This is best accomplished by loosening a screw in the pod area, which exposes the metal frame, closest to the traffic clearing light mechanism. Attach the two wires and re-tighten the screw (see figure 3).

3. On units with the strobe light option installed, connect the motor ground wire and ground wire from the traffic clearing light base to one of the screws which secure a corner of the strobe power supply to the metal Light Assembly frame (see figure 4).

F. MIRROR INSTALLATION.

In order to enhance the light pattern, by providing a reflected flash to the rear, it is necessary to

replace the standard mirrors (removed in step C.2.) with a new mirror assembly (supplied).

The kit contains a left and a right mirror mounting bracket, a mirror, (2) #4 machine screws, (2) 4-40 hex nuts and a #10 x 3/8 hex head screw. Attach the mirror to the appropriate mirror mounting bracket with the #4 screws and nuts. The shiny side of the mirror should be oriented to the rear at the angle shown in figure 3 or 4. Use the #10 screw to secure the mirror bracket to the Light Assembly base.

G. KIT CONTENTS LIST.

Qty.	Description	Part No.
2	Tiewrap, 8"L	150A132
2	Screw, #4 machine	7000A403-05
1	Screw, #10 x 3/8 hex hd.	7011A146-06
3	Screw, #10 x 1/2 hex hd.	7011A146-08
2	Nut, hex, ext keps	7058A001
3	Nut, 10-32 hex	7059A014
3	Washer, #10 flat	7072A020
1	Lamp	8107141
1	Base Plate Assy.	8431B021
1	Bracket, Mirror Mounting	8431B028
1	Bracket, Mirror Mounting	8431B031
1	Mechanism, TCLF	8431060
1	Mirror	8559B084
1	Terminal, Tab	233A184

H. MAINTENANCE.

Lubricate all pivot and contact points of the mechanism assembly with a silicone based grease every six (6) months.