

INSTALLATION INSTRUCTIONS FOR LEGEND™ REPLACEMENT PANEL ASSEMBLIES

SAFETY MESSAGE TO INSTALLERS OF FEDERAL SIGNAL LIGHT SYSTEMS

⚠ WARNING

People's lives depend on your safe installation of our products. It is important to read, understand and follow all instructions shipped with the products. In addition, listed below are some other important safety instructions and precautions you should follow:

- To properly install a light assembly: you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and use of safety warning equipment.
- A light system is a high current device. In order for it to function properly, a separate ground connection must be made. If practical, it should be connected to the negative battery terminal. At a minimum, it may be attached to a solid metal body or chassis part that will provide an effective ground path as long as the light system is to be used.
- This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into the light beam at close range.
- You should frequently inspect the light system to ensure that it is operating properly and that it is securely attached to the vehicle.
- File these instructions in a safe place and refer to them when maintaining and/or reinstalling the product.

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death to you or others.

I. GENERAL.

There are three ROC "Big Board" panel assemblies used in the Legend lightbar family. End and Intermediate panels are two per bar, all lengths; Center panels are one for 53" and two for 61" bars. These panels, supplied with LED and Halogen Options installed, are available from the factory on a custom order basis.

II. UNPACKING.

After unpacking the Legend panel assembly, inspect it for damage that may have occurred in transit. If the unit has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier, stating the extent of damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them.

III. INSTALLATION.

⚠ WARNING

Disconnect ALL power to the lightbar before any maintenance is performed. Failure to do so may result in property damage, serious injury, or death to you or others.

⚠ WARNING

A serious injury may result if the lamp is touched when hot. Always allow lamp to cool before removing. Halogen lamps are pressurized and if broken can result in flying glass. Always wear gloves and eye protection when handling lamps.

⚠ CAUTION

Service life of the lamp will be shortened if the glass portion is touched. If the glass has been handled, clean carefully with a grease solvent.

CAUTION

After prolonged operation, the unit gets hot and can cause burns. Do not touch the unit while or shortly after it has been operating. Always allow the unit to cool before handling.

A. *Top Removal (see figure 1).*

CAUTION

Do not overtighten nuts.

Remove the Phillips head barrel nuts then carefully remove the top to avoid damaging the lip seal. Verify that an o-ring is under the head of each barrel nut and not stuck to the top. If necessary, use a wooden or plastic pick to remove the o-ring from the top to prevent tearing the o-ring. Inspect lip seal (on base) and o-rings to insure they are not torn, brittle, or damaged. Replace if necessary (refer to Paragraph IV.). To prevent cross-threading on reassembly, back the barrel nut counterclockwise until an audible click of the threads engaging is heard, then tighten normally.

B. *Panel Assembly Replacement (see figure 2).*

1. Remove top per paragraph III.A. Remove the PCB ground nut, and invert Panel assembly.
2. Note and record connections, then disconnect wires and harnesses.
3. If required, remove controller per paragraph III.C.
4. Assembly is the reverse of disassembly. Ensure ground leads are in place. Do not overtighten nuts.

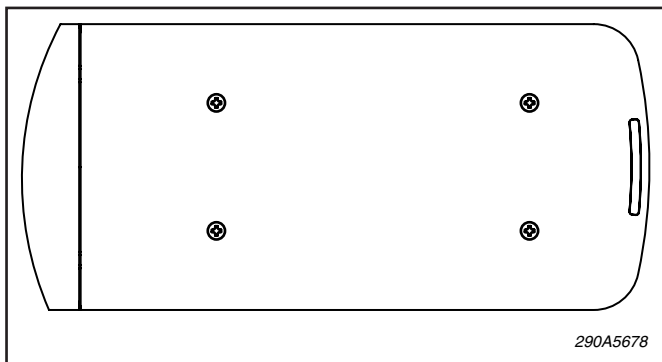


Figure 1.

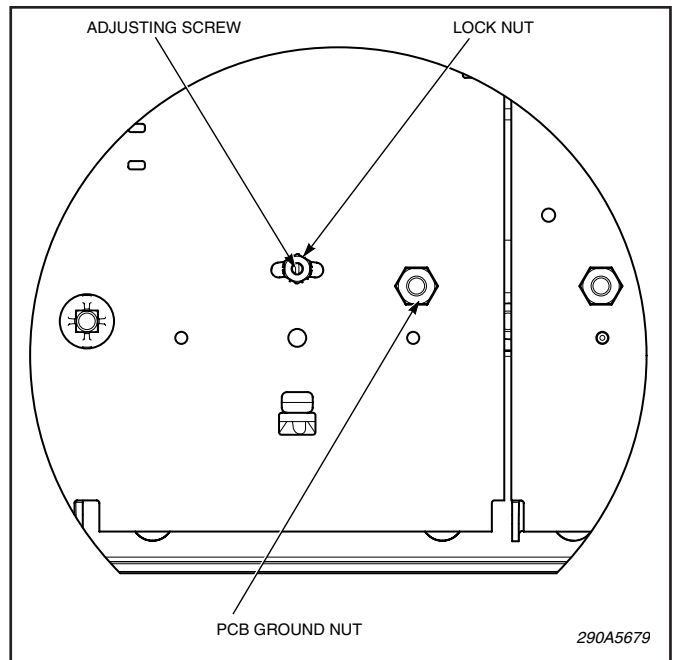


Figure 2.

C. *PCB Controller Replacement (see figure 3).*

1. Remove the passenger side end dome per paragraph III.A. Remove the PCB ground nut from the end PCB, and invert PCB, noting ground lead placement on ground bracket.

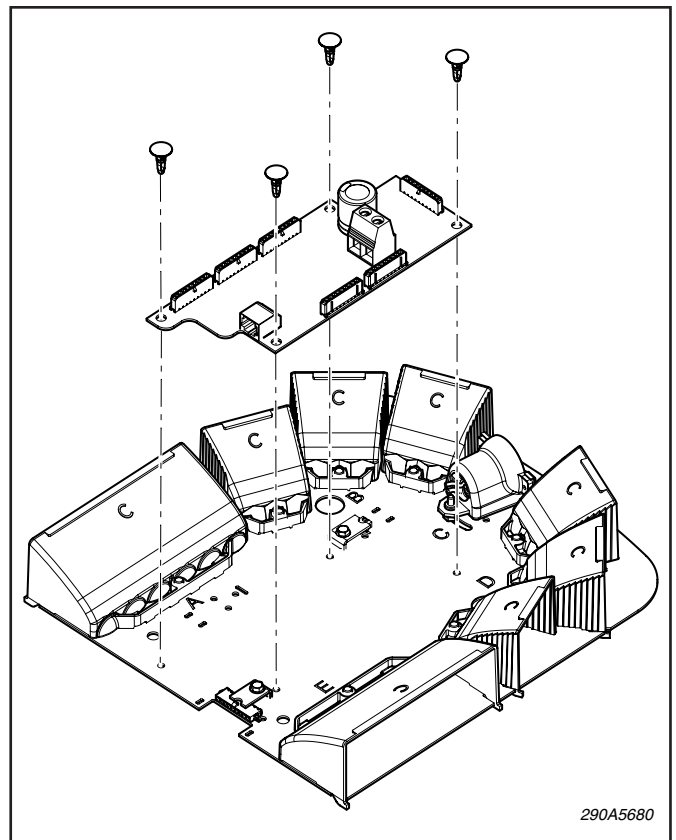


Figure 3.

2. Note and record connections, then disconnect wires and harnesses.
3. Compress the lock tab on the nylon standoffs and remove controller with standoffs from main PCB.
4. Compress secondary lock tabs and remove standoffs from controller.
5. Assembly is the reverse of disassembly. Ensure ground leads are in place. Do not overtighten nuts.

D. *Halogen Lamp Adjustment (see figure 2).*



Do not overtighten screws/nuts

Remove the top per paragraph III.A. above. The halogen lamps are adjustable horizontally +/- 8 degrees and vertically +2 degrees/-5 degrees.

1. Horizontal adjustment: Loosen the lock nut with a 3/8" wrench while holding the adjusting screw with a small screwdriver. Move lamp aim to desired position, then carefully tighten locknut with the wrench while holding adjusting screw with screwdriver.
2. Vertical adjustment: Loosen the lock nut with a 3/8" wrench while holding the adjusting screw with a small screwdriver. Turn adjusting screw clockwise to lower point of aim, counter-clockwise to

raise point of aim. Once positioned, carefully tighten locknut with wrench while holding adjusting screw with screwdriver.

IV. REPLACEMENT PARTS.

Description	Part No.
PCB Assembly, End (Configured)	Contact Factory
PCB Assembly, Intermediate (Configured)	Contact Factory
PCB Assembly, Center (Configured)	Contact Factory
PCB Assembly, Controller	2005429-1234
PCB Assembly, Controller, Steady Burn Red DS (CA)	2005429-124
PCB Assembly, Controller, Steady Burn Red DS&PS (CA)	2005429-234
Lamp, Halogen Alley, 35W, MR-11	8107241
Lamp, Halogen Takedown, 50W, GH-8 Bi-Pin	8107169
Fuse, Mini, 15 Amp	148181-06
Seal, Lip, Clear (5.5ft per end section; 3.5ft per center section)	8583020-01
O-Ring, Dome Nut	7067016
Standoff, Nylon	230315

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