

INSTALLATION INSTRUCTIONS  
FOR REPLACEMENT OF  
SERIES B ARJENT™ S2 LED/HALOGEN PANEL ASSEMBLIES

SAFETY MESSAGE TO INSTALLERS  
OF  
FEDERAL SIGNAL LIGHT SYSTEMS



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. UNPACKING.

After unpacking the Arjent S2 replacement panel, inspect it for damage that may have occurred in transit. If the unit has been damaged, 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.

II. DESCRIPTION.

The Arjent S2 lightbar that houses the replacement panels is available in a 36", 44" or 53" length.

<u>Finished Model</u>	<u>S25394</u>	<u>S25395</u>	<u>S25402</u>
<u>Numbers</u>			
#583002 36"	2	2	0
#583004 44"	2	2	1
#583006 53"	2	2	2

Each replacement panel has the availability of 4 to 5 maximum factory-installed options per panel for a custom order request.

Panelized Solaris LED Options:

XDILC6-A, -R, -B, -W, -G: 6-LED Solaris S2 LED light head

XDALED-A, -R, -B, -W, -G: 3-LED Solaris S2 light head, alley light position

- Flashing pattern selectability of the LED options may be specified via programming of the lightbar.
- SignalMaster operation is accomplished via programming of the lightbar.
  - 4-pos. SignalMaster available on the 36" bar;
  - 6-pos. SignalMaster available on the 44" bar;
  - 8-pos. SignalMaster available on the 53" bar
- Steady-burn availability of 1 or 2 front LED heads must be specified via the Arjent S2 initial order entry.

Panelized Halogen Options (maximum of 2 per center panels and 6 per lightbar):

XDAHAL Alley Light, 35 watts/head (MR 11) adjustable

XDTD Takedown Light 50 watts/head

XDWL Work Light 50 watts/head

- Flashing of the halogen options is accomplished via programming of the lightbar.

### III. INSTALLATION.

Before proceeding, ensure that the lightbar has been installed on the vehicle roof in accordance with the instructions packed with the Arjent S2 mounting kit.



**Be sure to disconnect all incoming power wiring to the lightbar before servicing the lightbar's interior. Failure to do so may result in property damage, serious injury, or death to you and others.**

Disconnect ALL power to the lightbar before any panel replacement is performed.



**A serious injury may result if 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 the lamps.**



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

Replace panels using the following sequence of operations:

1. Remove the upper dome where the panel is to be replaced. Four or five screws, dependent upon the dome, must be removed to detach the dome. Note: 2 panel types are located in the end domed section, the 2005394 (finished model number S25394) and 2005395 (finished model number S25395) ('D' shape). On the 44" and 53" light bars, 1 panel type is found with the center domed section.

2. See figure 1. For replacing the 2005394 (finished model number S25394) panels within the end domed section, proceed as follows:

- a. First remove the sunscreen, folded in place above the access hole in the panel.
- b. Disconnect the 9-wire connector attached to the panel.
- c. Remove the 4 screws that hold the panel to be replaced to the lightbar. Note the positioning of the lockwashers held in place by the screws.
- d. Insure that the ground strap connections to the neighboring 2005395 (finished model number S25395) panel are loosened so as the 2005394 (finished model number S25394) panel may be removed.

e. Carefully lift up the old panel, and substitute the replacement panel.

f. Follow above directions in reverse order to re-assemble the lightbar. Be sure the lockwashers are re-attached by the screws as they were originally found.

g. Insure the bar is fully functional with the replacement panel by applying power to unit.

3. See figure 2. For replacing the 2005395 panels (finished model number (S25395) ('D' shaped) within the end domed section, proceed as follows:

a. Remove the 3 screws that hold the panel to be replaced to the lightbar. Note the positioning of the lockwashers held in place by the screws.

b. Insure that the ground strap connection to the neighboring 2005394 (finished model number S25394) panel is loosened so as the 2005395 (finished model number S25395) panel may be removed.

c. After partially lifting the panel, reach in and disconnect the 9-wire connector attached to the 2005395 (finished model number S25395) panel.

d. Carefully lift up the old panel, and substitute the replacement panel.

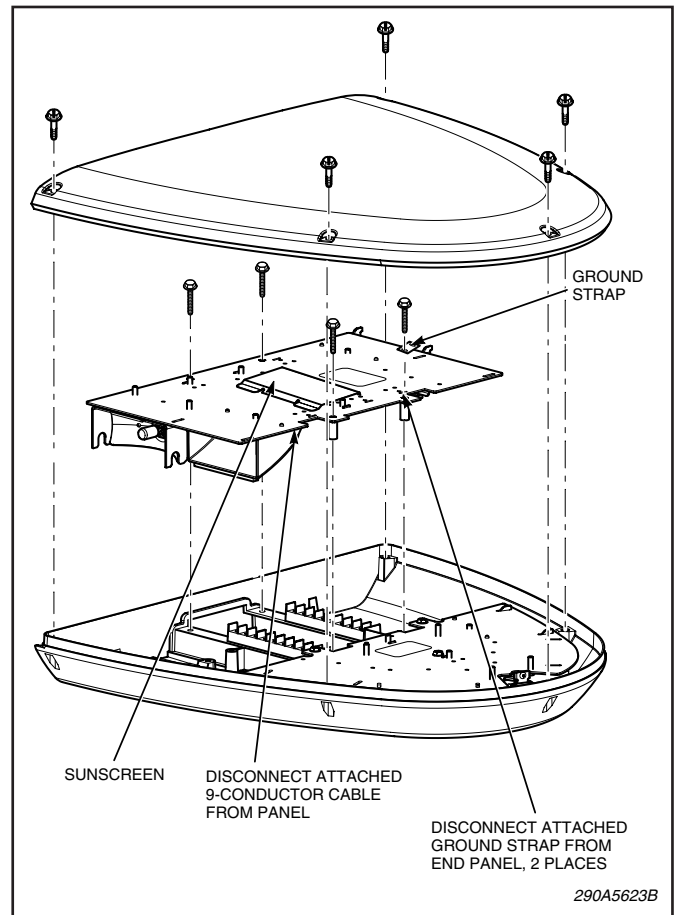


Figure 1. 2005394 Panel Replacement.

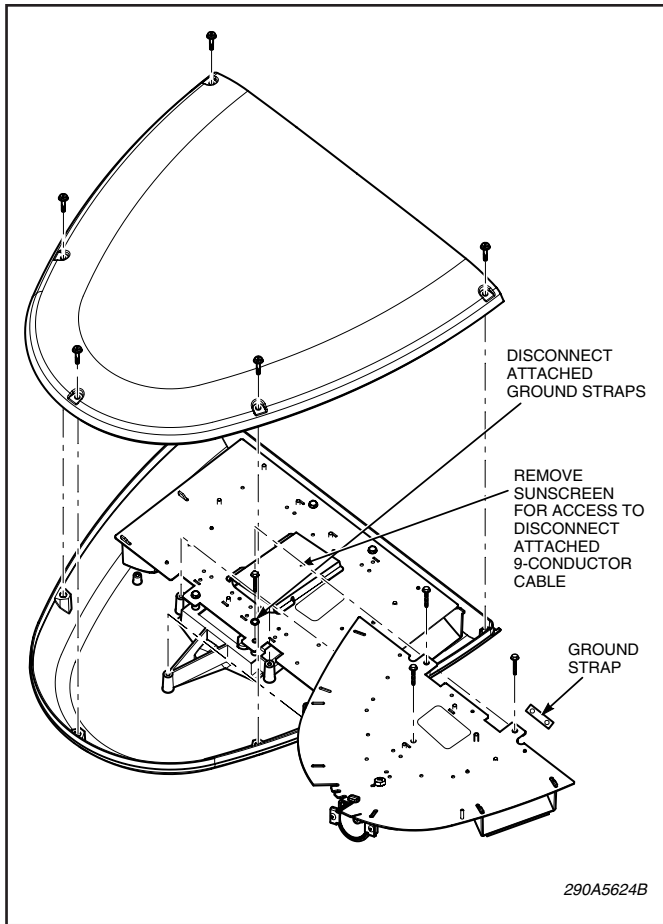


Figure 2. 2005395 Panel Replacement.

e. Follow above directions in reverse order to re-assemble the lightbar. Be sure the lockwashers are re-attached by the screws as they were originally found.

f. Insure the bar is fully functional with the replacement panel by applying power to unit.

4. See figure 3. For replacing the 2005402 (finished model number S25402) panels within the center domed section (44" and 53" lightbars), proceed as follows:

a. First remove the sunscreen, folded in place above the access hole in the panel.

b. Disconnect the 9-wire connector attached to the panel.

c. Remove the 6 screws (two #6-32 phillips head and four #10 hex head) that hold the panel to be replaced to the lightbar. Note the positioning of the lockwashers held in place by the four hex head screws.

**NOTE**

On series A Arjent S2 lightbars, the two #6-32 phillips head screws are not present along with the 1-3/8" hexagonal standoffs. When replacing a series A panel with a series B panel, the hexagonal standoffs and the #6-32 screws must be installed as shown in figure 3 (two per 2005402 panel).

d. Carefully lift up the old panel, and substitute the replacement panel.

e. Follow above directions in reverse order to re-assemble the lightbar. Be sure the lockwashers are re-attached by the screws as they were originally found.

f. Insure the bar is fully functional with the replacement panel by applying power to unit.

**IV. REPLACEMENT PARTS.**

Contact your local dealer/distributor for replacement parts/panel availability or contact the Federal Signal Service Department at:

Service Department  
 Federal Signal Corporation  
 2645 Federal Signal Drive  
 University Park, IL 60466

800-433-9132  
 800-343-9706 (fax)  
 emp-service-info@fed-sig.com

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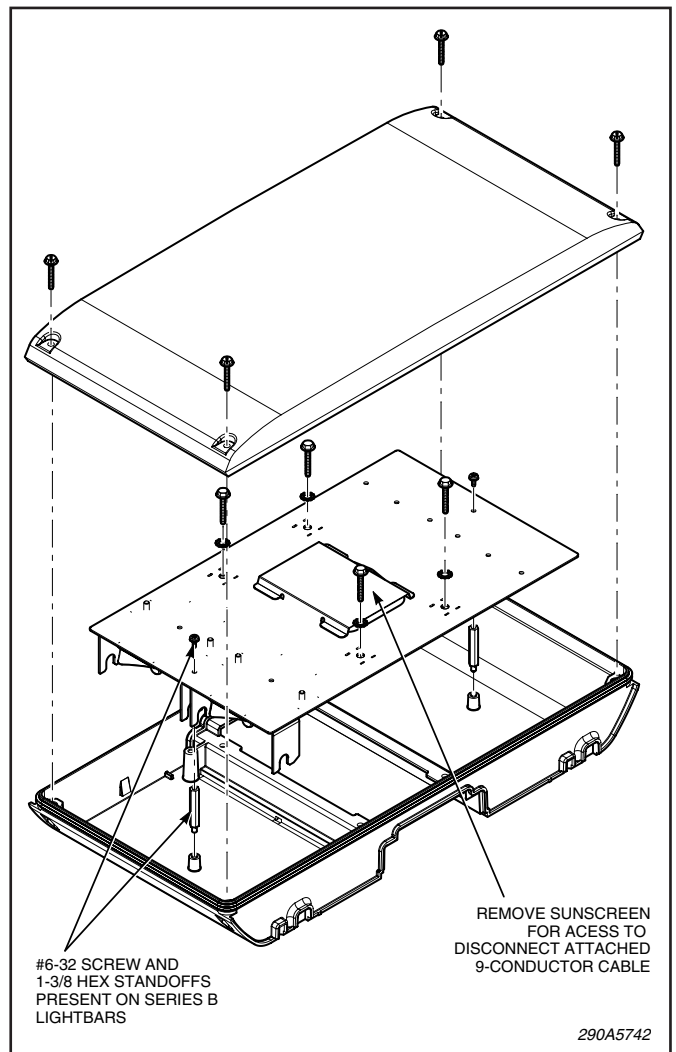


Figure 3. 2005402 Panel Replacement.

