

25500210 Rev. A0

Safety Message to Installers of Warning Light Equipment

▲ WARNING

People's lives depend on your proper installation and servicing of Federal Signal products. It is important to read and follow all instructions shipped with this product and the original product. In addition, listed below are some other important safety instructions and precautions you should follow:

- To properly install the lighting and siren systems, you must have a good understanding of automotive systems, along with proficiency in the installation and use of safety warning equipment.
- Do not install equipment or route wiring in the deployment path of an airbag.
- If a vehicle seat is temporarily removed, verify with the vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment.
- You should frequently inspect the light and siren systems to ensure that it is operating properly and that it is securely attached to the vehicle.
- When drilling into a vehicle structure, be sure that both sides of the surface are clear of anything that could be damaged.
- Refer to the instructions packed with related products for additional precautions and information.
- Do not stare directly into the lights at a close range or permanent damage to your eyesight may occur.
- All effective sirens and horns produce loud sounds (120 dB) that may cause permanent hearing loss. Always minimize your exposure to the sound of the siren and horn and wear hearing protection. Do not sound the siren and horn indoors or in enclosed areas where you and others will be exposed to the sound.
- 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.

Overview of the Gutter Hook Kits

This publication has instructions for using the HKB-FRD15 (51"-54" lightbars) and HKB-FRD15-44 (44"-46" lightbars) gutter hook kits for mounting Federal Signal lightbars on the 2015 Ford F150. Before proceeding, read and understand all instructions provided with the mounting kit. This installation requires parts provided in the mounting kit. These instructions supersede any conflicting generic instruction in the mounting kit. For electrical installation instructions, refer to the installation and maintenance instructions packed with the lightbar.

NOTE: Before the installation, read and understand the Ford SVE QVM Bulletin Q-222 "Attaching Accessories to Aluminum Panels and Structure" available on the website of the Ford Truck Body Builder Advisory Service at <https://www.fleet.ford.com/truckbbas/non-html/Q-222.pdf>

Unpacking the Kit

After unpacking the kit, inspect it for damage that may have occurred in transit. If it 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. Ensure that the parts in the KIT CONTENTS LIST are included in the package. Disposal of all shipping materials must be carried out in accordance with national and local codes and standards. If you are missing any parts, contact Customer Support at 1-800-264-3578, 7 a.m. to 5 p.m., Monday through Friday (CT).

Table 1 Model HKB-FRD15 mounting kit

Qty.	Description	Part Number
2	Hook, 04, F150	8552695
2	Pad, Bumper, Hook	8552492
6	Rivet, Pop, 3/16" Diameter, Aluminum	7099220-27

Table 2 Model HKB-FRD15-44 mounting kit

Qty.	Description	Part Number
2	Hook, 15, F150, 44" Bars	855201287
2	Pad, Bumper, Hook	8552492
6	Rivet, Pop, 3/16" Diameter, Aluminum	7099220-27

Prepare the Gutter Hooks

⚠ WARNING

AIRBAG DEPLOYMENT: Do not install equipment or route wiring in the deployment path of an airbag. Failure to observe this warning will reduce the effectiveness of the airbag or potentially dislodge the equipment, causing serious injury or death.

NOTICE

DRILLING PRECAUTION: When drilling holes, check the area you are drilling into to be sure you do not damage vehicle components. All drilled holes should be deburred and all sharp edges should be smoothed. All wire routings going through drilled holes should be protected by a grommet or convolute/split loom tubing.

⚠ CAUTION

HEAVY OBJECT: Do not install equipment or route wiring in the deployment path of an airbag. Failure to observe this warning will reduce the effectiveness of the airbag or potentially dislodge the equipment, causing serious injury or death.

IMPORTANT: Plan all cable routing before the installation.

To prepare the gutter hooks:

1. See Figure 1. To protect the roof surface, peel the backing from the adhesive mounting pad, and attach the pad to the bottom of each hook.
2. See Figure 2. With parts from the mounting kit, using a 5/16" bolt as an alignment guide, install the washer with a screw on both hooks.

Figure 1 Pad attached to mounting hook

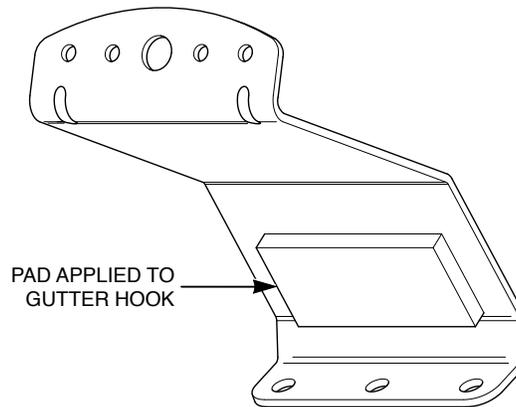
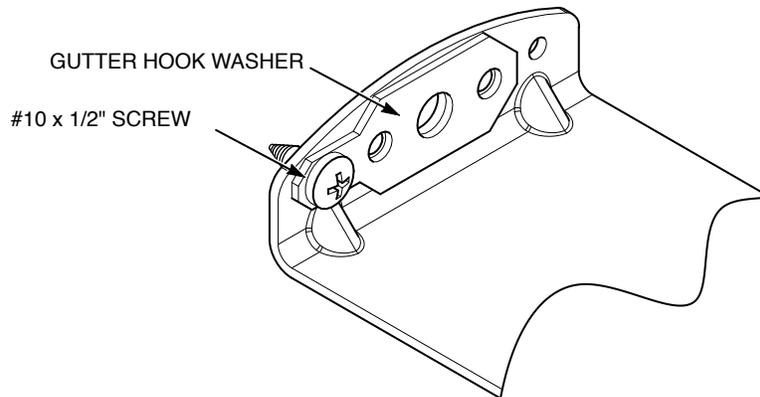


Figure 2 Washer attached to mounting hook



Prepare the Mounting Foot (INTG/LGD/LPX/NVG)

Install the pads to the mounting foot using the parts supplied with the lightbar mounting kit.

For the 51" Integrity/53" Legend/LPX/Navigator: Use the thickest pad to the front, the medium pad to the rear.

For the 44" Integrity/45" Legend/LPX/Navigator: Use the medium pad to the front, the thinnest pad to the rear.

Prepare the Lightbar

1. Place the lightbar on the vehicle, centered left to right.
2. Adjust the feet in or out as shown in Figure 3 on page 4.
3. Tighten the nuts on the mounting feet to the torque recommended in the mounting kit instructions.

Figure 3 Mounting foot position

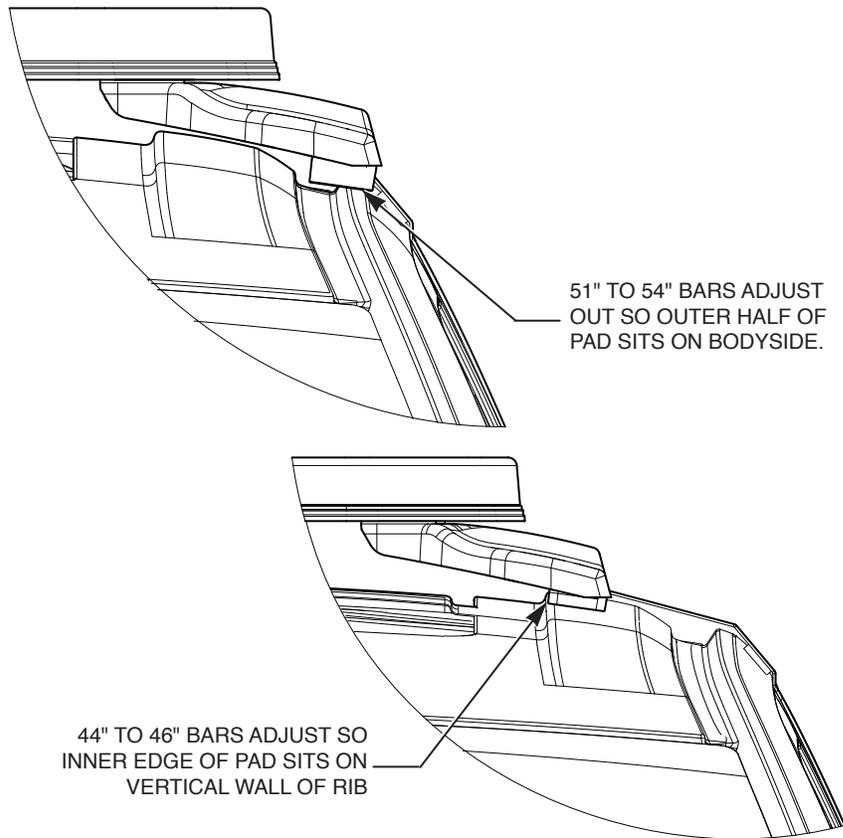
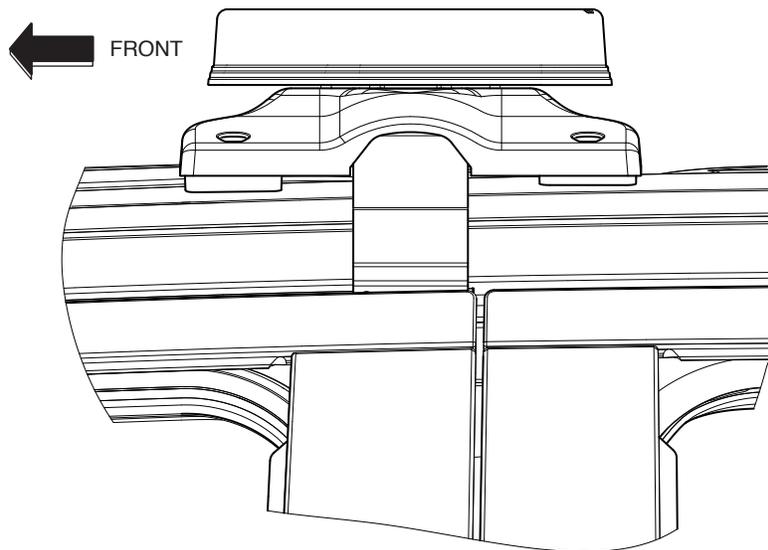


Figure 4 Crew and Super hook position



Attach the Lightbar to the Vehicle

1. Attach the hook assemblies:

For Kit HKB-FRD15: Lift the lightbar and attach the hook assemblies to the lightbar with the 2-1/2" long 5/16" bolts. Start the bolt only two or three turns.

For Kit HKB-FRD15-44: Lift the lightbar and attach the hook assemblies to the lightbar with the 3-1/2"-long 5/16" bolts. Start the bolt only two or three turns.

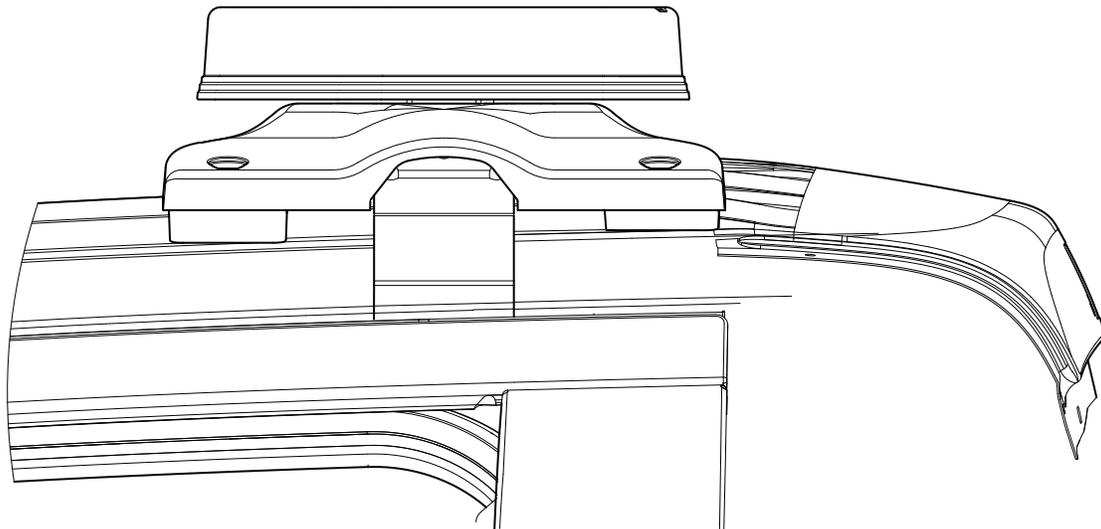
2. Place the hooks in position on the bodysides. See Figure 4 for the Crew/Super cab. See Figure 5 for the regular cab. Verify and adjust the position as necessary.
3. Using the hook as a template, mark and drill three 0.187" (3/16") holes.
4. Secure the hook using three of the 3/16" rivets. If the mandrel of the rivet does not break flush or recessed, dress the end flush to prevent damage to the weatherstrip over time. Repeat for other side.
5. Adjust the level of the lightbar.

For the Vision SLR: Adjust the lightbar for a slight (approx. 1/8" to 1/4") nose-down pitch.

For the Valor: Adjust the lightbar level to slightly nose-down (approx. 1/8").

6. Alternating side-to-side to keep the lightbar centered, snug the 5/16" bolts just until the lightbar feels solid when you lift on the mounting feet. Do not overtighten.
7. With parts from the mounting kit, install the keeper plates with two screws each.

Figure 5 Regular cab hook position



Completing the Installation

1. Complete the installation according to the instructions provided with the lightbar

▲ WARNING

LIGHT HAZARD: To be an effective warning device, an emergency warning system produces bright light that can be hazardous to your eyesight when viewed at a close range. Do not stare directly into the lights at a close range or permanent damage to your eyesight may occur

2. Test the lights for proper operation.

Getting Technical Support and Service

Federal Signal Corporation will service your equipment or provide technical assistance with any problems that cannot be handled locally. Any product returned to Federal Signal for service, inspection, or repair must be accompanied by a Return Material Authorization number. The RMA number can be obtained from your local distributor or Federal Signal. Please provide a brief explanation of the service requested or the nature of the malfunction. Contact your local dealer/distributor for replacement parts availability or contact the Federal Signal Service Department (7 a.m. to 5 p.m., Monday through Friday, Central Time) at:

Service Department
Federal Signal Corporation
2645 Federal Signal Drive
University Park, IL 60484-3167
800-433-9132, 800-343-9706 (fax)

Returning a Product to Federal Signal

Before returning a product to Federal Signal, call 800-264-3578, 800-433-9132, or 800-824-0254 to obtain a Returned Merchandise Authorization number (RMA number). To expedite the process please be prepared with the following information:

- Your Federal Signal customer or account number.
- The purchase order number under which the items were purchased.
- The shipping method.
- The model or part number of the product being returned.
- The quantity of products being returned.
- Drop ship information as needed.
- Any estimate required.

When you receive your RMA Number:

- Write the RMA number on the outside of the box of returned items.
- Reference the RMA number on your paperwork inside of the box.
- Write the RMA number down, so that you can easily check on status of the returned equipment.

Mounting Instructions for the 2015 F150 Gutter Hook Kits

Send all material with the issued RMA Number to:

Safety and Security Systems
2645 Federal Signal Drive
University Park, IL 60484-3167

Attn: Service Department

RMA: # _____

800-433-9132

800-343-9706 (fax)

www.fedsig.com



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