

**INSTRUCTION SHEET
FOR
MAGNETIC MOUNT FIREBEAM®**

SAFETY MESSAGE TO INSTALLERS AND USERS

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 this light: you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and use of safety warning equipment.
- DO NOT install equipment or route wiring or cord in the deployment path of an air bag.
- When drilling into a vehicle structure, be sure that both sides of the surface are clear of anything that could be damaged.
- In order for the light 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.
- Locate light control so the VEHICLE and CONTROL can be operated safely under all driving conditions.
- Do not attempt to activate or deactivate light control while driving in a hazardous situation.
- You should frequently inspect the light 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.

The Federal FireBeam® provides numerous features in a compact warning light. This low-cost, lightweight warning light is equipped with a 55 watt halogen lamp providing excellent light output. To increase warning light effectiveness, snap-on color filters may be added. An Ultra-Flash accessory mirror can be added to produce a 7 flash effect in a desired direction.

II. UNPACKING.

After unpacking the light, 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

When installing equipment inside air bag equipped vehicles, the installer MUST ensure that the equipment is installed ONLY in areas recommended by the vehicle manufacturer.

Failure to observe this warning will reduce the effectiveness of the air bag, damage the air bag, or potentially damage or dislodge the equipment, causing serious injury or death to you or others.

Before proceeding with installation, ensure that the following parts have been included with the mounting kit.

Qty.	Description	Part No.
1	Screw, Hex Hd., #10 Hi-Lo	7017A034-08
1	Magnet Assembly	8550A012

Magnetic mounting provides a secure, temporary mounting method for most installations. However, it is not intended for use on the exterior of a moving vehicle.

A. See figure 1. Observe the nameplate on the light assembly's bottom, and locate the proper mounting hole for the magnet.

B. See figure 1. Insert the #10 Hi-Lo screw through the magnet and into the proper mounting hole in the bottom of the light assembly. Tighten securely.

WARNING

Because vehicle roof construction and driving conditions vary, Federal does not recommend driving a vehicle with a magnetically mounted warning light installed. The light could fly off the vehicle causing injury or damage. Repair of damage incurred because of ignoring this warning shall be the sole responsibility of the user.

Holding power of magnetic mounting systems is dependent upon surface finish, surface flatness, and thickness of the steel mounting surface. Therefore, to promote proper magnetic mounting:

- Mounting surface and magnets must be kept clean, dry, and free of foreign particles that prevent good surface contact.
- Ensure that mounting surface is flat.
- Magnet mounting system should not be used on vehicles with vinyl tops.
- To prevent sliding of light assembly on mounting surface, quick acceleration and hard stops should be avoided.
- If the light is to be held directly to the roof by the magnet, ensure that the power cable is not under the magnet.

C. Place the light assembly on a level steel surface. Ensure that the light is placed to promote maximum coverage and range of the light's warning signal.

IV. OPERATION.

WARNING

Because vehicle roof construction and driving conditions vary, Federal does not recommend driving a vehicle with a magnetically mounted warning light installed. The light could fly off the vehicle causing injury or damage. Repair of damage incurred because of ignoring this warning shall be the sole responsibility of the user.

WARNING

To avoid overheating of plug assembly during operation, ensure that the cigar lighter socket is free of dirt and ashes.

Insert the plug on the end of the power cord into the cigar lighter socket.

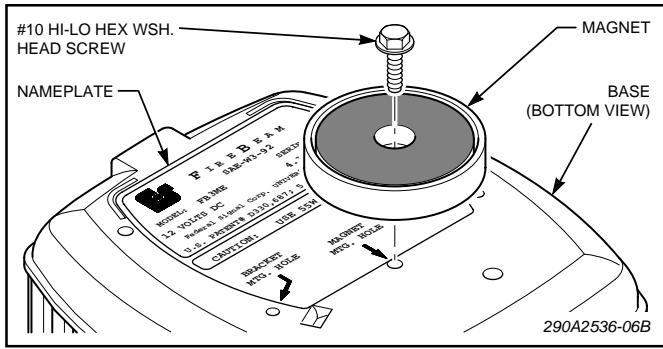


Figure 1.

NOTE

When using the vehicle's cigar lighter socket as the light's power source, Federal recommends replacing the original lighter circuit fuse with an eight-ampere fuse. After the original fuse has been replaced, devices requiring more than eight amperes will cause failure of the lighter circuit fuse and therefore should not be plugged into the cigar lighter socket.

Disregard the above recommendation for units that have a plug with a built-in eight ampere fuse (accessible by depressing and turning the tip contact counterclockwise).

If direct connection to the power source (not utilizing the cigar lighter plug) is desired, a user-supplied in-line fuseholder and eight-ampere fuse must be installed in the power cord's ribbed (positive) lead.

VI. MAINTENANCE.

A. General.

WARNING

Crazing (cracking) of domes will cause reduced effectiveness of the light. Do not use cleaning agents (which will cause crazing) such as strong detergents, solvents, or petroleum products. If crazing of dome does occur, reliability of light for emergency signalling purposes may be reduced until dome is replaced.

1. Clean the dome with a non-abrasive, high quality, one-step, automotive paste cleaner/wax and a soft cloth. If it becomes necessary to replace the dome, refer to paragraph VI.C. for the replacement dome part numbers.

2. On magnetic mount lights, periodically inspect the magnet for dirt and metal shavings. Clean the magnet as necessary. Keep the area around the magnetic mount light free of dirt and metal shavings.

3. Apply a film of light grease to the gears when necessary.

B. Lamp Replacement.

WARNING

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.

1. See figure 2. Press the retaining latch (located on the rear of the light) with the blade of a flat blade screwdriver, and lift the dome away from the base.

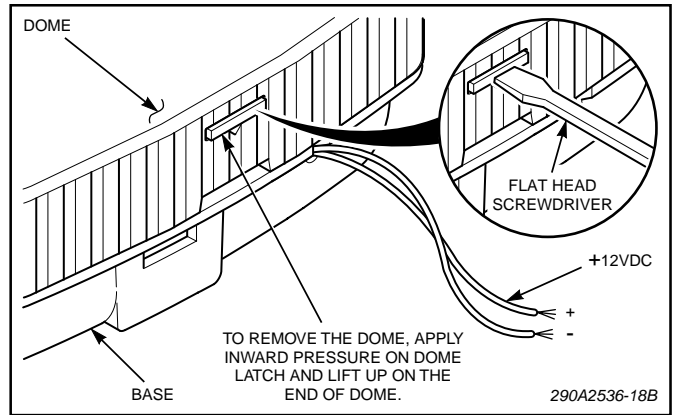


Figure 2.

CAUTION

Forced rotation of the light mechanism will cause damage to the worm gear. ALWAYS rotate the light mechanism by rotating the motor shaft.

2. Rotate the reflector until the C-clip (located at the base of the lamp) can be removed, and remove the C-clip by sliding it away from the reflector.

3. See figure 3. Note the lamp's orientation and replace the lamp with the straight edge of the lamp's base toward the reflector.

4. Reassemble the light.

C. Replacement Parts.

Description	Part No.
Lamp, H-1, 55 watt	8440A265
Dome, Clear	8550137
Dome, Red	8550137-01
Dome, Amber	8550137-02
Dome, Blue	8550137-03
Dome, Green	8550137-04
Dome, Swedish Blue	8550137-05
Base	8550136
Motor Assy., 12 VDC	8550218
Motor Assy., 9 VDC	8550218-01
Clip, Lamp	8550133
Straight Cord W/Plug	8440B015
Magnet	8550A012

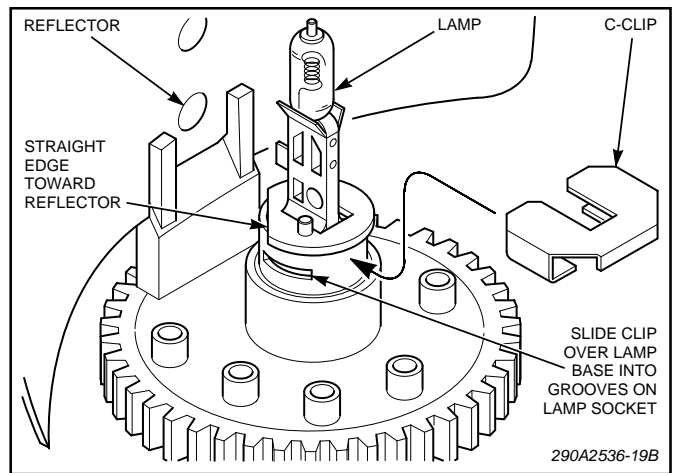


Figure 3.