

**INSTALLATION INSTRUCTIONS FOR MODEL 517112 WRECKER SPECIAL****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.
- When drilling into a vehicle structure, be sure that both sides of the surface are clear of anything that could be damaged.
- 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.
- 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.
- Locate light system controls so the VEHICLE and CONTROLS can be operated safely under all driving conditions.
- 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.

**A. OVERVIEW**

The Model 517112 is designed to give a tow truck operator extra light to work by and higher warning visibility on the road. Two independent halogen rotating assemblies each provide 90 flashes per minute.

A total of 540 flashes per minute gives a highly effective pattern of light to the rear. Rearward facing red stop-turn signals and work lights fully illuminate the scene. Alternate-flashing end lamps also face forward for an extra margin of safety.

**B. ELECTRICAL WIRING**

The light assembly is completely wired at the factory and does not require any internal wiring. A nine conductor cable is connected to the light assembly and contains all the conductors necessary for proper operation.

Connect the light assembly to the vehicle's electrical system as shown in the wiring diagram (Figure 1). Be SURE to use fuses (current ratings shown in Figure 1), wire and switches with adequate current capacity for each function (all user supplied). Switch current capacity requirement for the Model 517112 is 30 amperes. Federal Signal Model SW300 (or equivalent) is recommended.

**C. MAINTENANCE**

1. Cleaning the Plastic Domes

**▲WARNING****CRAZING/CHEMICALS**

Crazing (cracking) of domes will cause reduced effectiveness of light system. Do not use cleaning agents (which will cause crazing) such as strong detergents, solvents, or petroleum products.

Ordinary cleaning of the plastic domes can be accomplished by using mild soap and a soft rag. Should fine scratches or a haze appear on the domes, they can ordinarily be removed with a high quality automotive paste cleaner and wax.

2. Replacing the Halogen Lamp

**▲CAUTION****HANDLE STROBE AND HALOGEN  
LAMPS CAREFULLY**

Strobe and halogen lamps get hot enough to burn you. Always allow these lamps to cool before handling them. Halogen and strobe lamps are also pressurized and if broken can result in flying glass. Always wear gloves and eye protection when handling these devices.

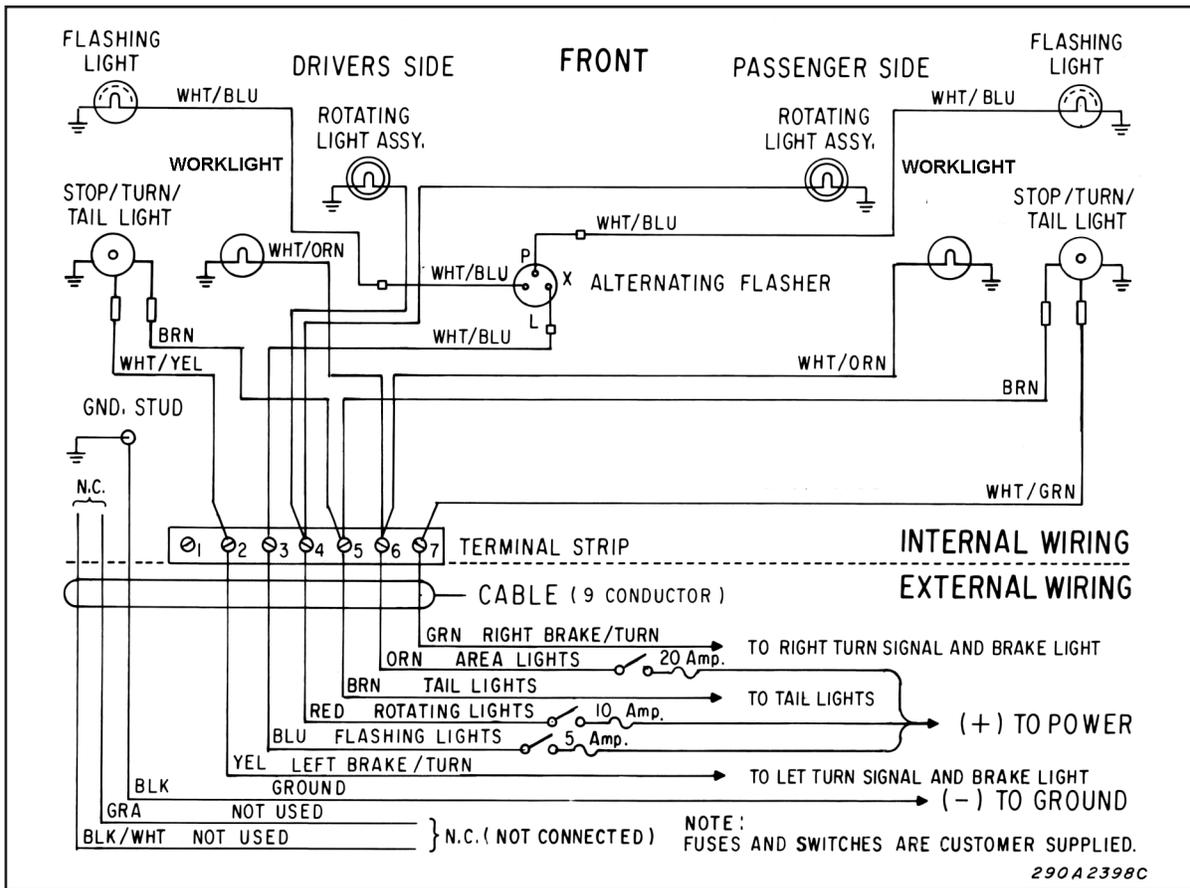


Figure 1.

**NOTICE**

**WORM GEAR DAMAGE**

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

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

b. Note the lamp's orientation and pull the defective lamp and connector out of the socket.

**CAUTION**

**DO NOT TOUCH LAMPS WITH BARE HANDS**

Oil deposits on the glass portion of a strobe or halogen lamp can cause the glass to fracture during use. If you are unsure whether the glass portion has been handled without gloves, clean the glass using a soft cloth and isopropyl alcohol.

c. Replace the defective lamp with a new H-1 halogen lamp. When reassembling, ensure that the lamp is secured to the connector and that the clip is properly seated in the grooves on the lamp socket.

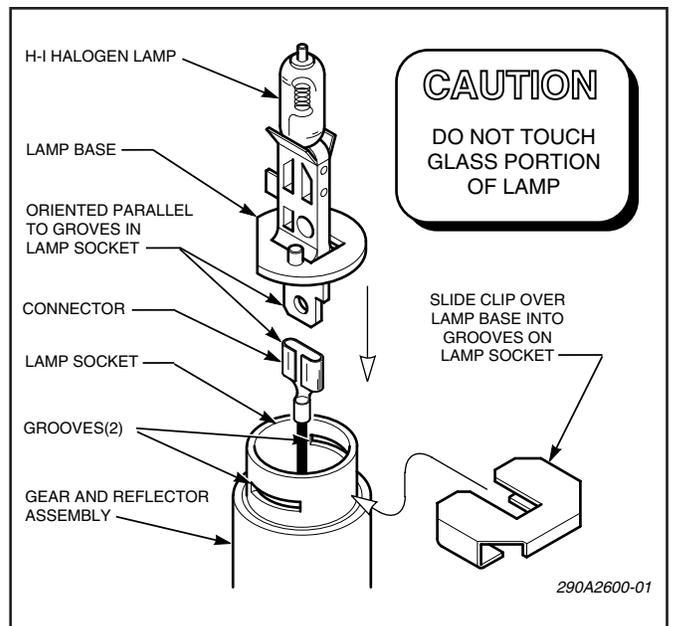


Figure 2.