



## 03.1500 Ambulance Flasher INSTRUCTIONS

**Attention Installers: This flasher must be installed by a qualified technician.**

It is the final responsibility of the installer of headlight flashers to determine their compatibility with the vehicle make and model in which they will be installed. Incorrect wiring of headlight flashers could result in costly problems or even permanent damage to the vehicle's computer module.

**NOTE:** Do not install any **SHO-ME**® headlight flashers on 2000 model year or newer Dodge Durangos or Dodge Dakotas. Our flashers are **not** compatible with these vehicles and may lead to the failure of their computer systems.

**CAUTION!**

This flasher **MUST** be wired through a circuit controlled by the ignition switch  
**DO NOT** wire directly to the battery.

This flasher is designed to flash all Primary and Secondary warning lights on standard ambulances. Three outputs are conservatively rated as follows:

Output A - 40 Amps

Output B - 24 Amps

Output C - 30 Amps

Grounding the Primary mode terminal activates primary mode. In this mode, Output A alternates with Outputs B and C. Grounding the Secondary mode terminal activates secondary mode. In this mode, Output A alternates with Output B while Output C remains off. If Primary and Secondary modes are active at the same time, Primary mode will override Secondary mode.

A ground terminal has been provided on the flasher to aid in dissipating inductive spikes resulting from long runs of wire going to the lights. This ground terminal must be connected to chassis ground BEFORE connecting any other terminals of the flasher. After connecting the ground wire, connect the positive wire, then connect outputs, then connect the control wires. This flasher also includes high power Zener diodes to protect the transistors from voltage spikes.

The flasher includes low voltage detection and will turn off all outputs if the input voltage falls below 10.4 volts. The flasher will remain off until the voltage is above 11 volts for 3 seconds.

Six-gauge wire is recommended for use on the Positive input terminal and 8 Ga. on the outputs. This size wire will run cool and provide a long service life. If inadequately sized wire is used, the flasher may appear to operate intermittently. This is due to insufficient power being supplied, and the flasher going into a self-protection mode. Proper wire sizing, clean and solid connections ensure proper flasher operation. The ground and control wires electrically require only 20 Ga. wire, but for actual use in a vibrating vehicle, 16 Ga. is recommended.

The connections to the flasher should be made using brazed ring terminals, crimped to the wire, then soldered, then defluxed to remove any residue that may impede good connection. It is recommended to NOT use a lock washer on the high current connections, due to the reduced surface area the washer will provide. Instead, the terminal should be "sandwiched" between two brass nuts, with a stainless steel lock nut to prevent the brass nut from loosening.

This flasher is in no way fused, and does not monitor the current being used. Monitoring current requires an additional voltage drop inside the flasher, which translates to increased heat generation. Each output should be fused with a single fuse (one for each group of lamps) or multiple fuses (one for each lamp). Using multiple fuses allows the flasher to continue operating if the wiring to one lamp becomes shorted to chassis. The input to the flasher should be fused near the battery or the main power feed for equipment. Fuses should be sized to match the current draw of the lamp +25%.



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**LIMITED WARRANTY**

Able 2 Products Company warrants each new product (except bulbs, strobe tubes, strobe power supplies and LED Products) to be free from defects in material and workmanship for a period of two years from the date of purchase. During this warranty period, the obligation of Able 2 is limited to repairing or replacing, as Able 2 may elect, any part or parts, which after examination by Able 2 are determined to be defective, when they are delivered pre-paid. This limited warranty does not cover travel expense, the cost of specialized equipment for gaining access to the product, or labor charges for the removal and re-installation of the product.

Able 2 Products Company shall not be liable for incidental or consequential damages, including but not limited to : Loss of use of vehicle, Rental of substitute vehicle, Loss of time, Loss of work, Inconvenience, Transportation expenses, Telephone, Lodging, Loss of revenue, Loss of and /or damage to personal property for or arising out of breach of any express or implied warranty of its products.

Use of lamp or other electrical load of a wattage higher than installed or recommended by the factory, or use of inappropriate or inadequate wiring or circuit protection causes this limited warranty to become void. Able 2 Products Company will in no way be liable for any loss of profits or any indirect or consequential damages arising out of any such defect in material and workmanship whether loss is due to negligence or breach of warranty. This limited warranty does not apply to shipping damage, accident, alteration, tampering, misuse or abuse and unauthorized service.

This limited warranty is expressly in lieu of all other express or implied warranties, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose, and of all other obligations or liabilities on the part of Able 2 Products Company. There are no warranties, unless expressed in authorized Able 2 literature, which extend beyond the description of the face hereof. No dealer, distributor, employee, or representative of the company is authorized to change this warranty in any way or to grant any other warranty.

- WARRANTIES:**
- All LED Products . . . . . 5 Years
  - T Model & Potted Strobe Power Supplies 2 Years
  - All Other Strobe Power Supplies . . . . . 5 Years
  - All Other Products EXCEPT Bulbs . . . . . 2 Years (under normal use)
  - Strobe Tubes . . . . . 1 Year (under normal use)
- NOTE: Halogen and Incandescent Bulbs are not covered by warranty.

**PRODUCT RETURNS**

If a product must be returned, contact our factory by calling 1-800-641-4098 to obtain a Return Authorization Number (RA) before you ship the product. Write the RA Number clearly on the package and return it to Able 2 Products Company, P.O. Box 543, 804 E. Hwy. 248, Cassville, MO 65625-0543. A packing slip should be included with all shipments listing the sender's name, address, daytime phone number and description of defect. Your product will be put in first-class operating condition or replaced with a new part, and returned pre-paid.