SAFETY NOTICES

WARNING

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death to you or others.

SAFETY MESSAGE TO INSTALLERS, USERS, AND MAINTENANCE PERSONNEL

It is important to follow all instructions shipped with this product. This power supply is to be installed by a trained installer who is thoroughly familiar with electrical wiring techniques, including manufacturers guidelines for mobile vehicular applications, national electrical code and local codes.

This power supply generates 600 volts. NEVER work on this power supply or lighting system before removing input power. WAIT 10 MINUTES AFTER REMOVING INPUT POWER BEFORE ATTEMPTING ANY SERVICE ON THIS SYSTEM.

The selection of the mounting location for the device, its controls and the routing of the wiring is to be accomplished under the direction of the engineer in charge. The 776–1228 weighs approximately 3.5 pounds. For mobile vehicular applications, the installer must find a safe mounting location so that in the event of an accident the power supply cannot become loose within the passenger compartment of the vehicle or death to you or others.

Listed below are other important safety instructions and precautions:

- Read and understand all instructions before beginning any installation.
- DO NOT connect power to this device before completing installation. If installing in a vehicle, disconnect the battery of the vehicle before beginning installation. If after installation, ensure that all mounting hardware is tightened, all electrical joints are tight, and all connectors are properly seated.
- After installation and testing is complete, provide a copy of these instructions to all operating personnel.
- TEST THE SYSTEM REGULARLY TO ENSURE THAT IT IS OPERATING PROPERLY.

INSTALLATION

1. UNPACKING

After unpacking the power supply, examine it for damage that may have occurred in shipping. If the equipment has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier stating the extent of the damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Carefully check contents of the shipping package and verify that you have received the following items.

- 1 ea. MODEL 776–1228 Strobe Power Supply
- 1 ea. INSTALLATION KIT P/N SA317 containing
  - 1 Blue Lead Controls Flash Rate + Battery Activates PURSUIT Mode
  - 1 Yellow Lead Controls Intensity or + Battery Activates Hi Intensity
  - 1 Red Lead Controls Group 2 + Battery Activates All Lamps in Group 2
  - 1 White Lead Controls Group 1 + Battery Activates All Lamps in Group 1
  - Yellow Lead Controls Intensity + Battery Activates Hi Intensity
  - White Lead Controls Group 2 + Battery Activates All Lamps in Group 2
  - Red Lead Controls Group 1 + Battery Activates All Lamps in Group 1

If you are missing any of the above items contact TOMAR Electronics Customer Service to request the missing part.

2. MOUNTING

THE 776–1228 WEIGHS APPROXIMATELY 3.5 POUNDS, FOR MOBILE VEHICULAR APPLICATIONS, THE INSTALLER MUST FIND A SAFE, STURDY MOUNTING LOCATION SO THAT IN THE EVENT OF AN ACCIDENT THE POWER SUPPLY CANNOT BECOME LOOSE WITHIN THE PASSENGER COMPARTMENT OF THE VEHICLE AND POTENTIALLY IMPACT TO A PASSENGER.

The Model 776–1228 Strobe Power Supply is designed for mounting on a sturdy flat surface protected from rain, spills, excessive heat, and physical damage. It may be installed in the trunk of a car, the saddle bag of a motorcycle, or any similar protected location. This device may also be installed in the engine compartment of a vehicle as long as it is mounted to a sturdy, flat surface, as far away from the engine as possible. Wiring for the device must be protected from cuts, nicks, abrasion, fraying, or any form of accidental exposure to prevent contact with its high voltage output.

Mount the power supply so that its nameplate can be seen by maintenance personnel. It displays an important safety message and advises of the high voltage output.

Mounting hardware and installation details are left to the installer.

3. POWER SUPPLY PROTECTION DESIGN

The 776–1228 Power Supply design includes protection against reversed polarity input voltage by incorporating an in-line fuse and a large high amperage internal shunt diode to prevent damage to the power supply or the system. The fuse will open or if any lamp becomes shorted; no damage will be done to the supply. The supply will restart automatically as soon as the input power is restored. The supply also includes output voltage regulators so that its energy storage capacitors will not be damaged if it is activated without lamps connected.

4. WIRING

INPUT POWER

The Model 776–1228 Power Supply is designed to operate from 12 or 28VDC automotive electrical systems. Input power is connected to the power supply via two FASTON type connectors. Mating input power wires are supplied in the install kit. The red wire is positive. The black wire is negative. Refer to the wiring diagram and use 14 AWG wire size minimum to connect the positive and negative power leads to the power supply.

The Model 776–1228 Power Supply is designed to be permanently connected to the vehicle battery through its in-line fuse and any other customer supplied wiring desired. The input battery power does not have to be switched on and off to control the supply. The supply is controlled by applying positive battery voltage to its appropriate control wires as explained below.

This power supply is polarity sensitive and will blow its fuse if connected to the wrong polarity. The 20 AMP input power fuse supplied is part of the polarity protection system. Do not attempt to operate the supply with the fuse bypassed or shorted at anytime as the power supply will be irreparably damaged or destroyed and its warranty voided, if connected to the wrong polarity without proper size fuse protection.

LAMP CONNECTIONS

Lamps plugged into the Group 1 connectors flash alternately with each other and are activated by applying (+) positive battery to the RED wire of the control connector.

Lamps plugged into the Group 2 connectors flash alternately with each other and are activated by applying (+) positive battery to the WHITE wire of the control connector.

Cabling plugged into the lamp connectors must match the wire color code shown on the nameplate. Failure to observe color coding will cause short lamp life or failure of the power supply to operate at all.

Lamp A, Lamp C, and Lamp E flash simultaneously and Lamp B, Lamp D, and Lamp F flash simultaneously. Lamps flashing simultaneously share the power output of the power supply and will be approximately half as bright as a single lamp would be.

CONTROL WIRING

All functions of the power supply are controlled by applying positive battery voltage to the appropriate pin on the 4 pin control connector. A 4 pin mating connector with 6" wire pigtail leads is provided in the Install Kit for this purpose.

5. TESTING

Double check to verify that you have connected the power supply to the proper polarity before applying battery power.

Once you have completed the lamp port, control port, and input wiring, you may reinstall the power supply to the proper polarity before applying battery power.

If the main fuse or power input in-line fuse blows when power is applied to the power supply, check the input power wiring polarity. If backwards, simply reconnect correctly and replace the blown fuse.

INSTALLATION IS NOW COMPLETE
THINGS TO CHECK

TROUBLE

Nothing Works

1) Check battery or power source and main fuse or breaker.

2) Check ground connection.

Power Supply Blows In-Line Fuse

1) Check for reverse polarity on input power connection.

2) Power supply may be defective. Replace with known good unit.

One Lamp Does Not Flash

1) Check lamp by replacing it with known good lamp.

2) Check lamp cable by plugging a known good lamp directly into the non-functioning lighthead port.

WARNING

STROBE POWER SUPPLIES ARE HIGH VOLTAGE DEVICES AND CAN STORE LETHAL AMOUNTS OF ENERGY. DO NOT REMOVE OR CONNECT LAMPS OR TOUCH LAMPS WHILE STROBE POWER SUPPLIES ARE HIGH VOLTAGE DEVICES AND CAN STORE LETHAL ENERGY. DO NOT REMOVE OR CONNECT LAMPS OR TOUCH LAMPS WHILE STROBE POWER SUPPLIES ARE HIGH VOLTAGE DEVICES AND CAN STORE LETHAL ENERGY.

Replace dead or intermittent lamps immediately. Failure to do so may cause accelerated wear or melting of other simultaneously flashing lamps.

The 776–1228 Strobe Power Supply lighting system should be checked regularly for proper operation.

Lamps connected to the 776–1228 should be kept clean and checked monthly for signs of wear. If the lamp is blackened along more than approximately 30% of its length or flashes erratically, the lamp should be replaced.