

WHELEN[®]

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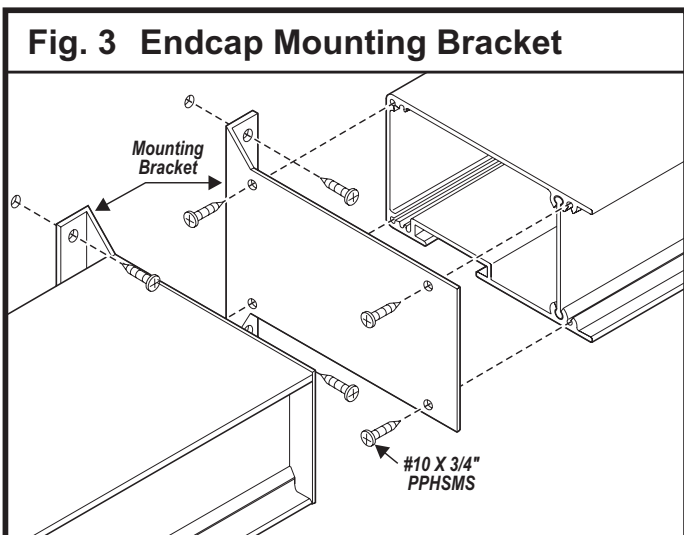
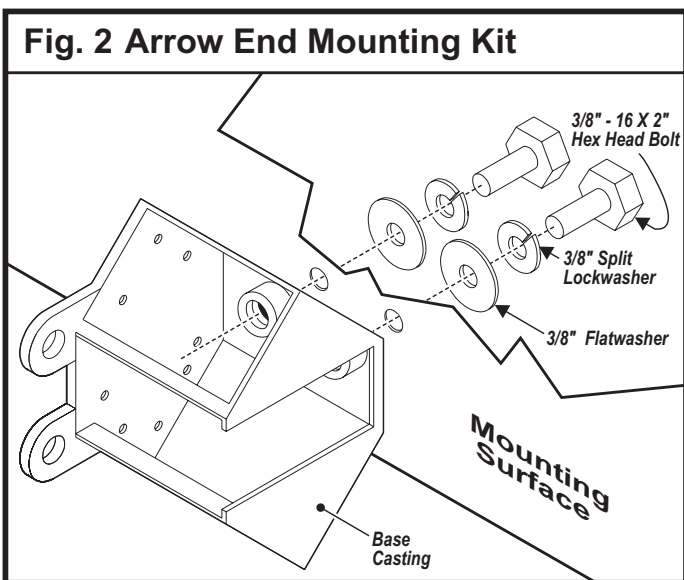
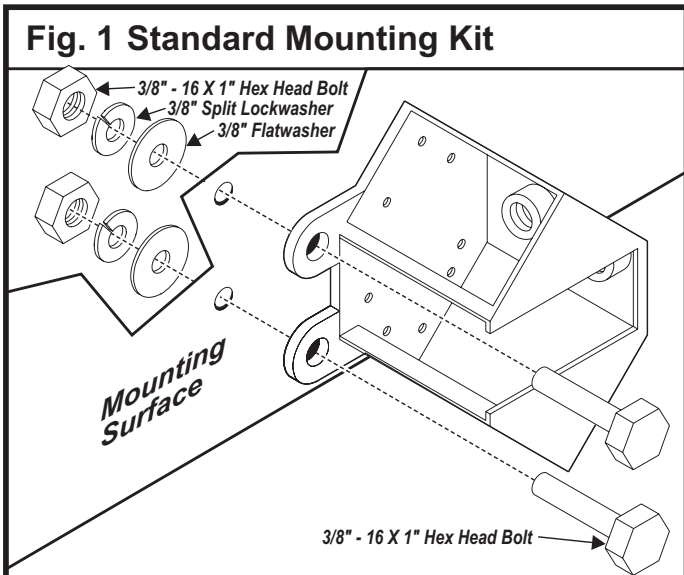
Installation Guide: TA1252L, TA1652L & TA1652H Traffic Advisor™ Systems

Safety First

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- **Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.**
- **If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.**
- **If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro®, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.**
- **Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.**
- **For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the NEGATIVE (-) battery post.**
- **If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.**
- **Do not attempt to activate or control this device in a hazardous driving situation.**
- **This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.**
- **Use only soap and water to clean the outer lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lens in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.**
- **It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.**
- **FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

For warranty information regarding this product, visit www.whelen.com/warranty



Installation:

Install the T/A arrow light array as shown in Figures 1-3 depending on which mounting style you will use.

IMPORTANT: When you are routing any wires, the existing, factory wire harness should be followed whenever possible. The existing harness has been carefully positioned so that the wires could not be damaged by vehicle operation for example; if your vehicle is equipped with a dump body, the harness is positioned so that the dumping action will not crush or pinch the wires. The factory harness may, depending on vehicle design, include a service loop that will keep the wires from being damaged or broken by the movement of the dump body.

Wiring:

WARNING! All customer supplied wires that connect to the positive terminal of the battery must be sized to supply at least 125% of the maximum operating current and **FUSED** at the battery to carry that load. **DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!**

Power Connector / P1

1. Plug the power connector into the back of the control head as shown in the wiring diagram.

Splice the 2 RED wires together, then extend this single RED wire to the battery. Install a 30 amp fuse block (customer supplied) to the end of the wire (remove the fuse before connecting any wires to the battery) and connect it to the POSITIVE (+) terminal on the battery.

IMPORTANT: There must not be more than 2 feet of wire between the fuse block and the battery. The wire between the fuse and battery is "unprotected", don't allow this wire to come in contact with other wires.

2. Splice the 2 BLACK wires together, then extend this single BLACK wire to the battery and connect it to the battery ground. If your vehicle has a cable extending from the negative terminal of the battery to the chassis, it is best to attach the black wire at the chassis connection.

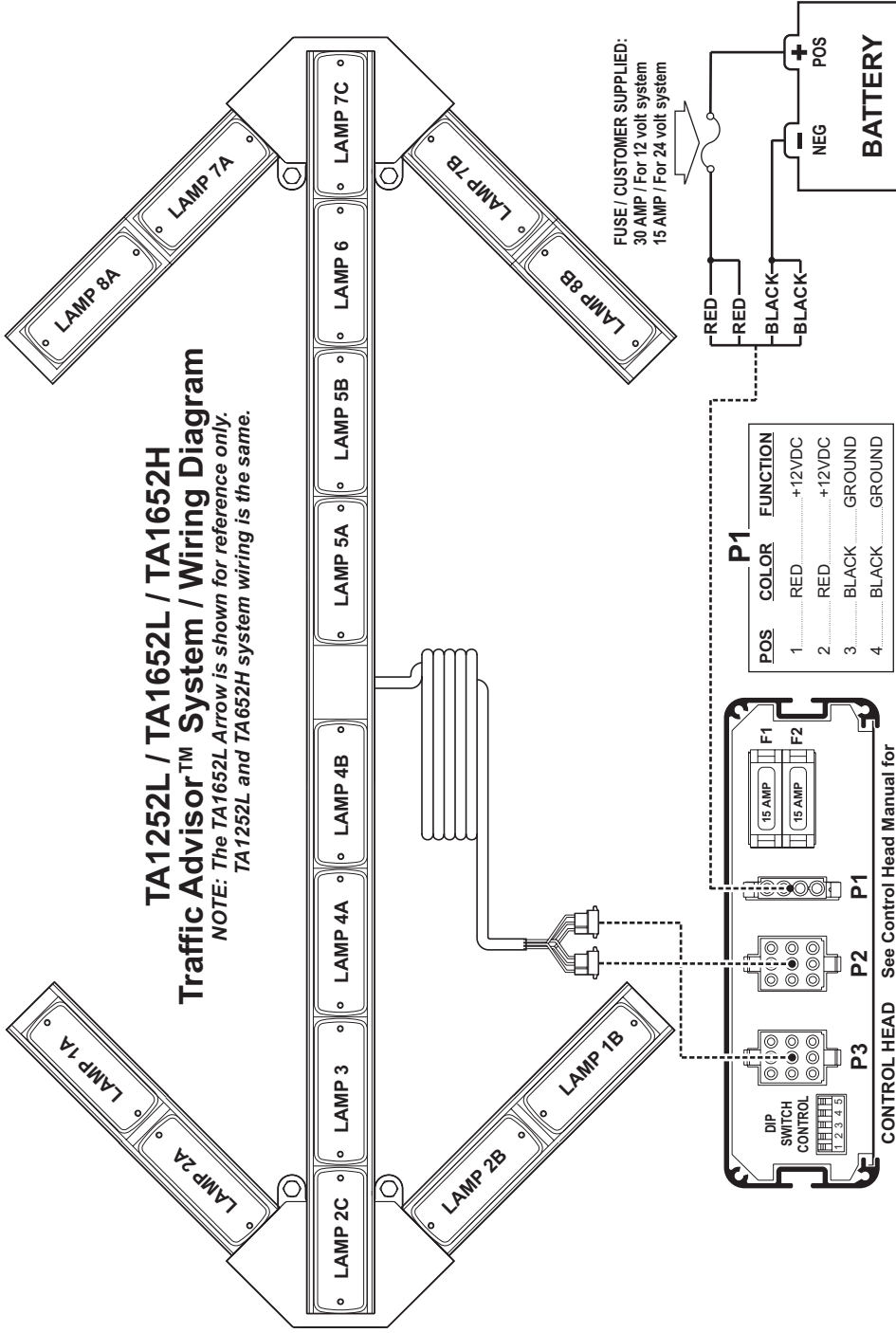
Control Connectors / P2 & P3

1. Route the control cables from the TA to the control head.
2. Plug the connector(s) into the control head as shown.
3. Refer to the control head manual for operation.

The installation of your system will be complete after the fuse block wire is connected to the POSITIVE (+) terminal of the battery. After this connection has been made, inspect the fuses at the control head and at the battery. If either of these fuses are blown, carefully inspect all of the circuit wires and make sure they are wired correctly. Replace blown fuses with one of an identical amp rating. If these fuses blow after installation or activation, contact Whelen Engineering Technical Support.

TA1252L / TA1652L / TA1652H Traffic Advisor™ System / Wiring Diagram

NOTE: The TA1652L Arrow is shown for reference only.
TA1252L and TA652H system wiring is the same.



FUSE / CUSTOMER SUPPLIED:
30 AMP / For 12 volt system
15 AMP / For 24 volt system

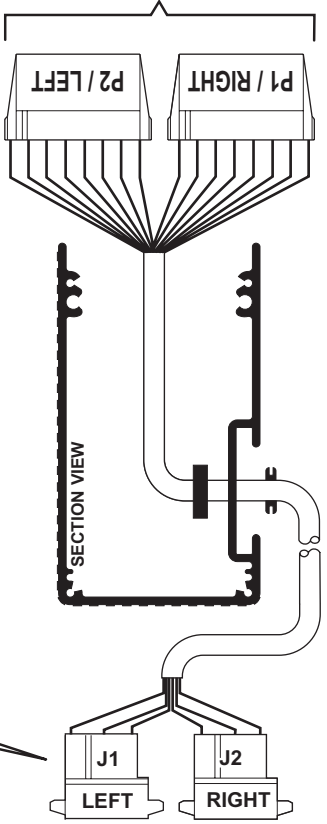
POS	COLOR	FUNCTION
1	RED	+12VDC
2	RED	+12VDC
3	BLACK	GROUND
4	BLACK	GROUND

**J1 / LEFT
9-POSITION
HOUSING**

POS.	COLOR
1	BROWN
2	WHITE W/BROWN
3	RED
4	WHITE W/RED
5	ORANGE
6	WHITE W/ORANGE
7	YELLOW
8	WHITE W/YELLOW
9	N/C

**J2 / RIGHT
9-POSITION
HOUSING**

POS.	COLOR
1	GREEN
2	WHITE W/GREEN
3	BLUE
4	WHITE W/BLUE
5	VIOLET
6	WHITE W/VIOLET
7	GRAY
8	WHITE W/GRAY
9	N/C



16-POSITION HOUSING / P2 / LEFT

POS.	COLOR	POS.	COLOR
1	BROWN	9	N/C
2	WHITE W/BROWN	10	N/C
3	N/C	11	ORANGE
4	N/C	12	WHITE W/ORANGE
5	RED	13	N/C
6	WHITE W/RED	14	N/C
7	N/C	15	YELLOW
8	N/C	16	WHITE W/YELLOW

16-POSITION HOUSING / P1 / RIGHT

POS.	COLOR	POS.	COLOR
1	GRAY	9	N/C
2	WHITE W/GRAY	10	N/C
3	N/C	11	BLUE
4	N/C	12	WHITE W/BLUE
5	VIOLET	13	N/C
6	WHITE W/VIOLET	14	N/C
7	N/C	15	GREEN
8	N/C	16	WHITE W/GREEN

CONTROL HEAD REAR VIEW
See Control Head Manual for functions and programming

