

WHELEN[®]

ENGINEERING COMPANY INC.

Route 145, Winthrop Road,
Chester, Connecticut 06412

Phone: (860) 526-9504

Fax: (860) 526-4078

Internet: www.whelen.com

Sales e-mail: autosale@whelen.com

Canadian Sales e-mail: autocan@whelen.com

Customer Service e-mail: custserv@whelen.com

Installation/Operating Manual: Dual Traffic Advisor Control Head

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 owners 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...

An aftermarket center console is recommended for the mounting location of this controller. This not only allows the driver to reach the controls easily, but also keeps the unit safely out of the path of the vehicle's SRS air-bag. Follow the console manufacturer's instructions for mounting information. If a console-type mount is not possible, a bail strap mounting kit for over- or under-dash mounting is included.

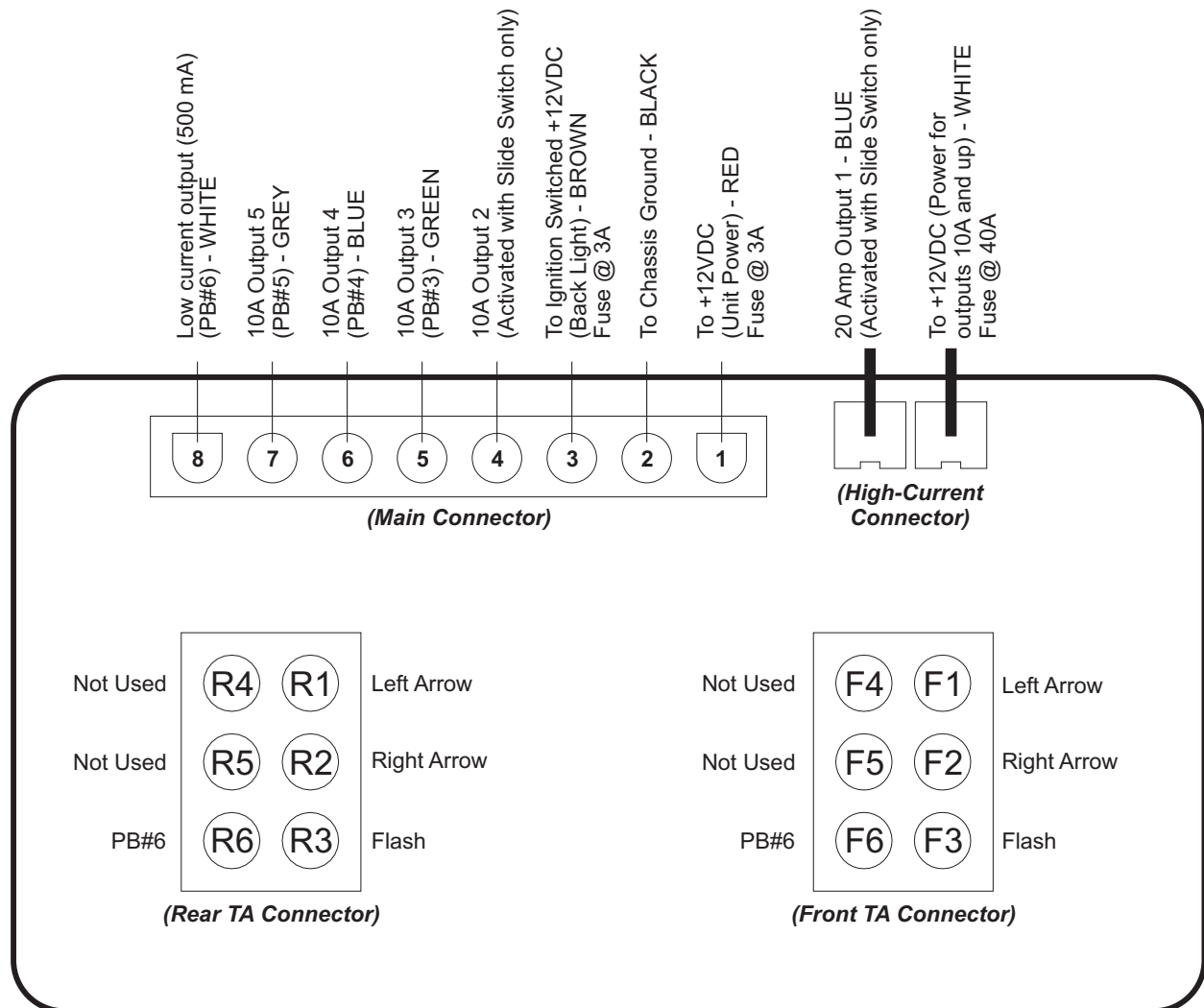
Refer to the following illustration for wiring information:

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!

READ BEFORE INSTALLING!!!

Do not install this product or route any wires in the deployment area of your airbag. Equipment mounted or located in the airbag deployment area will damage or reduce the effectiveness of the airbag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owners 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. Whelen Engineering Company assumes no liability or responsibility for determining individual applications or exact installation location criteria.

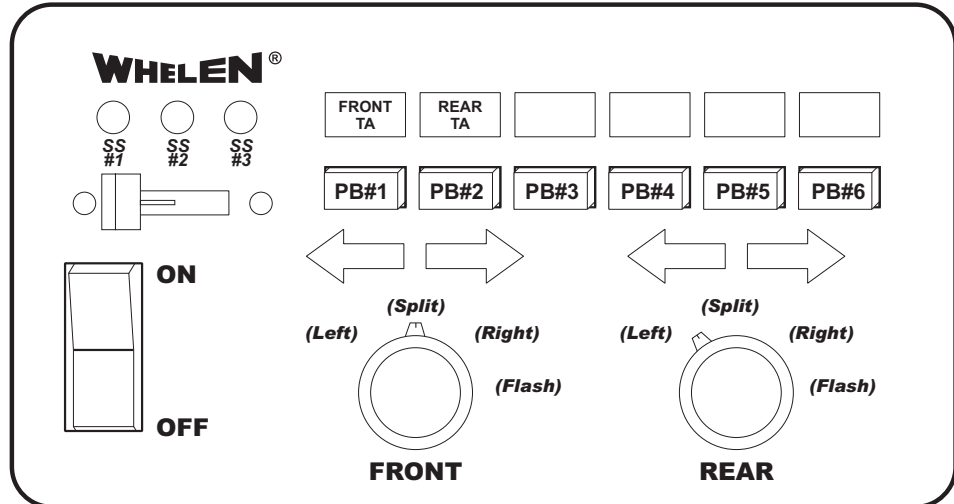


NOTE: Use the manual included with your Traffic Advisor to properly match the wire designations from your lightbar to this controller.

Operation...

ON/OFF Switch - When this switch is in the OFF position, no controller functions are active. In the ON position, the controller can now be used to activate accessories and Traffic Advisors.

Slide Switch - The slide switch has three positions. Each of these three positions uses a bank of eight dip switches to determine the function of each position.



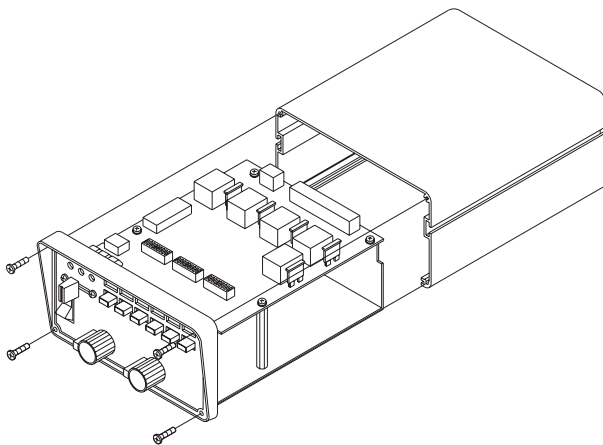
Bank #1 is used to configure slide switch position #1, Bank #2 is used to configure slide switch position #2 and Bank #3 is used to configure slide switch position #3. The functions of each dip switch are outlined below:

Bank#1	Function (in the ON position)	Default Position
Dip Switch #1	Enables PB#1 to control the Front T/A	OFF
Dip Switch #2	Enables PB#2 to control the Rear T/A	ON
Dip Switch #3	Activates 20 AMP relay output 1 (BLUE)	OFF
Dip Switch #4	Activates 10 AMP relay output 2 (YELLOW)	OFF
Dip Switch #5	Activates 10 AMP relay output 3 (GREEN)	ON
Dip Switch #6	Activates 10 AMP relay output 4 (BLUE)	ON
Dip Switch #7	Activates 10 AMP relay output 5 (GREY)	ON
Dip Switch #8	Removes PB#1 from slide switch functionality	OFF
Bank#2	Function (in the ON position)	Default Position
Dip Switch #1	Enables PB#1 to control the Front T/A	ON
Dip Switch #2	Enables PB#2 to control the Rear T/A	ON
Dip Switch #3	Activates 20 AMP relay output 1 (BLUE)	OFF
Dip Switch #4	Activates 10 AMP relay output 2 (YELLOW)	OFF
Dip Switch #5	Activates 10 AMP relay output 3 (GREEN)	ON
Dip Switch #6	Activates 10 AMP relay output 4 (BLUE)	ON
Dip Switch #7	Activates 10 AMP relay output 5 (GREY)	ON
Dip Switch #8	Removes PB#2 from slide switch functionality	OFF
Bank#3	Function (in the ON position)	Default Position
Dip Switch #1	Enables PB#1 to control the Front T/A	ON
Dip Switch #2	Enables PB#1 to control the Rear T/A	ON
Dip Switch #3	Activates 20 AMP relay output 1 (BLUE)	ON
Dip Switch #4	Activates 10 AMP relay output 2 (YELLOW)	OFF
Dip Switch #5	Activates 10 AMP relay output 3 (GREEN)	ON
Dip Switch #6	Activates 10 AMP relay output 4 (BLUE)	ON
Dip Switch #7	Activates 10 AMP relay output 5 (GREY)	ON
Dip Switch #8	Not Used	OFF

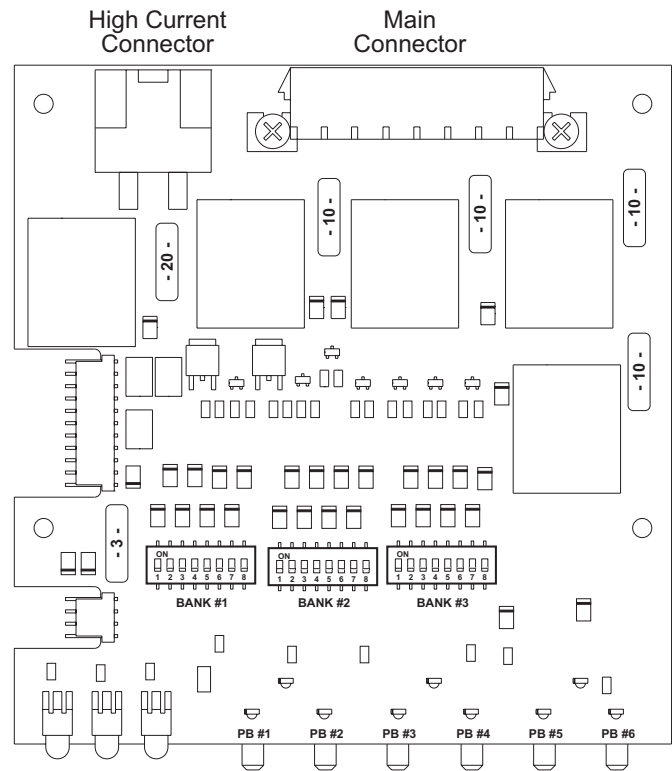
Moving a dip switch to an “ON” position enables the corresponding feature as listed. For example, if dip switch #3 on Bank #2 was moved to the “ON” position, the 20 AMP relay output (J3) would be activated whenever the slide switch was moved to position #2. If dip switch #3 was moved to the “ON” position on all three banks, the 20 AMP relay output (J3) would be activated when the slide switch was moved to position #1, #2 or #3. Dip Switches #1 & #2 on each bank control the operation of Push Button #1 & Push Button #2.

Push-Buttons & Knobs - The control head uses six push buttons and two knobs that allow the user to control specific functions. Those functions are as follows:

- PB#1 (Push Button #1) - Pressing this button allows the FRONT Traffic Advisor to be activated as defined in the Dip Switch section.
- PB#2 (Push Button #2) - Pressing this button allows the REAR Traffic Advisor to be activated as defined in the Dip Switch section.
- PB#3 (Push Button #3) - When this button is depressed, Pin #5 on the Main Connector is active.
- PB#4 (Push Button #4) - When this button is depressed, Pin #6 on the Main Connector is active.
- PB#5 (Push Button #5) - When this button is depressed, Pin #7 on the Main Connector is active.
- PB#6 (Push Button #6) - This *momentary* button activates Pin #8 on the Main Connector. This low current output may be used for Low Power activation, pattern control, etc..
- Front Knob - This knob is used to activate the Front Traffic Advisor. This knob has 4 positions with each position representing the 4 different activation modes. Clockwise these modes are LEFT, SPLIT, RIGHT & FLASH.
- Rear Knob - This knob is used to activate the Rear Traffic Advisor. This knob has 4 positions with each position representing the 4 different activation modes. Clockwise these modes are LEFT, SPLIT, RIGHT & FLASH.



**Isometric view of chassis
(cover removed)**



Top view of chassis