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**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.
- Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.
- Failure to use specified installation parts and/or hardware will void the product warranty!
- 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.
- 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. Lenses 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.
- 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!
- FAILURE TO FOLLOW THESE PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

**Mounting:**

- Mark the location of the 2 mounting holes onto the mounting surface using the dimensions shown, or use the flange as a template. Always check behind the mounting surface to be sure you will not harm other vehicle components.
- Drill the 2 mounting holes using a drill sized for a #6 sheet metal screw, then drill the 7/8" wire access hole as shown. Deburr this hole before continuing.
- Feed wires through wire hole then secure Mega T™ to mounting surface as shown.

**IMPORTANT!** Proper installation requires the vent membrane to be located above the horizontal centerline of the installed Mega-T™!

**Wiring (Note: All switches and fuses are customer supplied):**

**Ground (BLK)** - Extend BLK wire to Chassis Ground.

**Color 1 (LED COLOR)** - Extend this wire to +10-30VDC via an SP/ST switch (Fuse at 3 amps).

**Color 2 (LED COLOR)** - Extend this wire to +10-30VDC via an SP/ST switch (Fuse at 3 amps).

**Color 3 (LED COLOR)** - Extend this wire to +10-30VDC via an SP/ST switch (Fuse at 3 amps).

**Scan-Lock™ (WHT/VIO)** - Extend WHT/VIO wire to +10-30VDC via a momentary switch (fused@1A). Refer to the Scan-Lock™ section for operational information.

**SYNC (GREY)** - To SYNC 2 or more lighthoods, configure the lighthoods to display the same Phase 1 pattern. Turn power off and connect the GREY wire from the lighthoods together. Activate the lighthoods and their patterns will be synchronized. To configure 2 lighthoods to alternate their patterns, advance either lighthouse to Phase 2 of the current pattern.

**Scan-Lock:**

**Pattern Buffer Note:** This model features 7 pattern buffers; one for each combination of inputs. Each buffer will display its own flash pattern when activated. To change the flash pattern for any of the 7 pattern buffers, that buffer must be active.

**To advance to next pattern:** Apply +10-30VDC to WHT/VIO wire for less than 1 second and release.

**To cycle back to previous pattern:** Apply +10-30VDC to WHT/VIO wire for over 1 second and release.

**To change the default pattern:** When the desired pattern is displayed, allow it to run for more than 5 seconds. The lighthouse will now display this pattern when initially activated.

**To restore the factory default pattern:** With the light turned off, apply power to the WHT/VIO wire. With power applied to the WHT/VIO wire, turn light on. Allow the unit to run for 3 seconds before removing power from the WHT/VIO wire. This will reset all patterns back to their default settings.

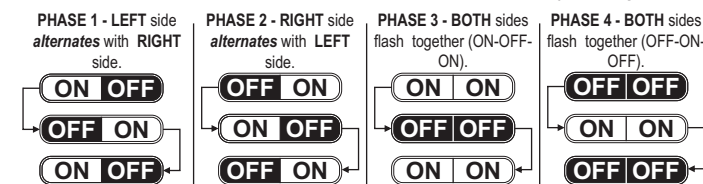
**Steady-Lock™** - When connected to a Core™ control system, a lighthouse doesn't require manually scanlocking to the steady pattern. All populated outputs can be sent a Steady-Lock™ signal from Whelen Command®, automatically setting their pattern to Steady. A minimum Whelen Command® version of 2.2.9 is required for this Steady-Lock™ feature.

**Multi-Color Steady Pattern Operation:**

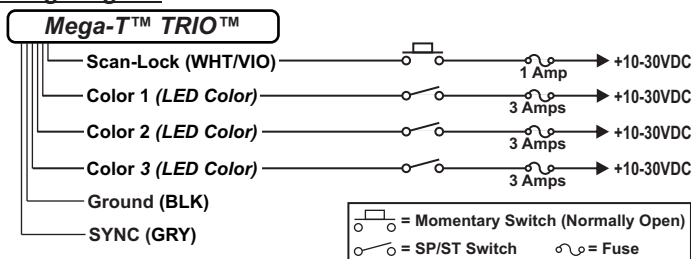
Color 1 Pattern	Color 2 Pattern	Color 3 Pattern	Active Color
Steady	Not Steady	Not Steady	Color 1
N/A	Steady	Not Steady	Color 2
N/A	N/A	Steady	Color 3

**Lighthouse Operation:**

Phases 3 & 4 are visually indistinguishable.



**Wiring Diagram**



**Flash Patterns:**

- Signal Alert 75 PH 1
- Signal Alert 75 PH 2
- Signal Alert 75 PH 3
- Signal Alert 75 PH 4
- CometFlash® 75 PH 1
- CometFlash® 75 PH 2
- CometFlash® 75 PH 3
- CometFlash® 75 PH 4
- ComAlert™ 75 PH 1
- ComAlert™ 75 PH 2
- ComAlert™ 75 PH 3
- ComAlert™ 75 PH 4
- LongBurst™ 75 PH 1
- LongBurst™ 75 PH 2
- LongBurst™ 75 PH 3
- LongBurst™ 75 PH 4
- PingPong™ 75 PH 1
- PingPong™ 75 PH 2
- PingPong™ 75 PH 3
- PingPong™ 75 PH 4
- SingleFlash 75 PH 1
- SingleFlash 75 PH 2
- SingleFlash 75 PH 3
- SingleFlash 75 PH 4
- DoubleFlash 75 PH 1
- DoubleFlash 75 PH 2
- DoubleFlash 75 PH 3
- DoubleFlash 75 PH 4
- TripleFlash 75 PH 1
- TripleFlash 75 PH 2
- TripleFlash 75 PH 3
- TripleFlash 75 PH 4
- SingleFlash 60 PH 1
- SingleFlash 60 PH 3
- SingleFlash 90 PH 1
- SingleFlash 90 PH 3
- SingleFlash 120 PH 1
- SingleFlash 120 PH 3
- SingleFlash 240 PH 1
- SingleFlash 240 PH 3
- DoubleFlash 120 PH 1
- DoubleFlash 120 PH 3
- TripleFlash™ 120 PH 1
- TripleFlash™ 120 PH 3
- ComAlert™ 150 PH 1
- ComAlert™ 150 PH 3
- PingPong™ 120 PH 1
- PingPong™ 120 PH 3
- ActionFlash™ 60 PH 1
- ActionFlash™ 60 PH 3
- ActionFlash™ 120 PH 1
- ActionFlash™ 120 PH 3
- Action SF 60/120 PH 1
- Action SF 60/120 PH 3
- Action SF 120/TF75 PH 1
- Action SF 120/TF75 PH 3
- ModuFlash™ PH 1
- ModuFlash™ PH 3
- Cal Scan PH 1
- Cal Scan PH 3
- ActionScan™ PH 1
- ActionScan™ PH 3
- DVI Single 60 Day PH 1\*
- DVI Single 60 Day PH 3
- DVI Single 75 Day PH 2\*
- DVI Single 75 Day PH 1\*
- DVI Single 75 PH 4\*
- DVI Single 75 PH 3
- Steady / Flash 60\*
- Steady / Flash 75\*
- Steady / Flash 90\*
- Steady / Flash 120\*
- Steady / Steady\*

**BOLD = California Title XIII**

*Italics = SYNC Pattern*

\* = Patterns available in single color mode only

