

WHELEN[®]

ENGINEERING COMPANY INC.

51 Winthrop Road
Chester, Connecticut 06412-0684
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 Guide: Model T1R LED Lightbar (Single)

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. 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.
- 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

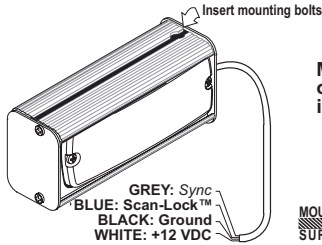
This light is sold in 2 models. A steady burn light (Red LED) or a flashing light (Blue LED). The light is always on when plugged in. When you apply power to the BLUE dash light it will turn on and display the "SingleFlash" pattern. When you plug the RED dash light into your cigar lighter it will turn on and display the "Steady Burn" mode (no flash pattern).

CAUTION! Nighttime operation of this product may produce reflected light within the vehicle! Use with caution!

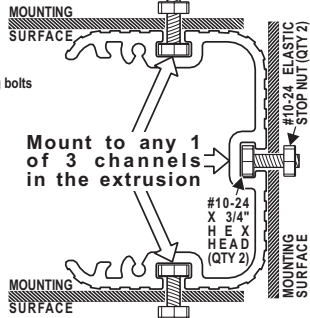
IMPORTANT! The lightbar should be located a minimum of 16" from any radio antennas!

Wiring:

BLUE LED Model:
Connects directly to power.
Fuse power wire @ 3 AMPS



Extrusion end view (without end cap)



Installation: BLUE LED Model:

The BLUE LED model mounts directly to your mounting surface using the supplied bolts and stop nuts.

Caution: Permanent mounting of this product will require drilling. It is absolutely necessary to make sure that no other vehicle components could be damaged by this process. Check both sides of the mounting surface before starting. If damage is likely, select a different mounting location.

Sync (GREY wire)

Two or more T1 lightbars may be SYNC'd by connecting the GREY wires from each one together. The two, SYNC'd T1 lightbars can display patterns in a simultaneous (Phase 1) or alternating (Phase 2) style. To configure the T1's to simultaneous display, set both lightbars to Phase 1 of the same pattern. To configure them to alternate their patterns, advance the pattern of either lightbar to the Phase 2 mode of that same pattern.

Scan-Lock™ (BLUE wire)

Select flash patterns using the BLUE wire. With the unit on...

To advance to the next pattern, apply +12 VDC to the BLUE wire for less than 1 second and release. To cycle backwards to previous patterns, apply +12 VDC for more than 1 second and release.

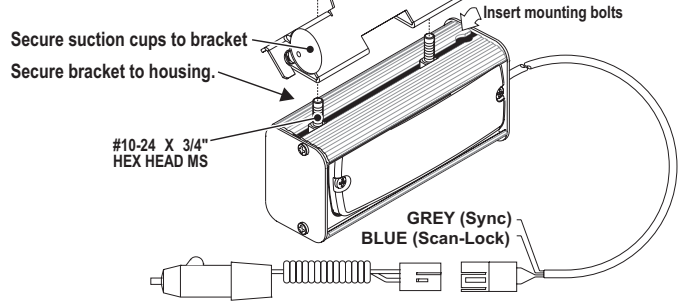
Installation: RED LED Model:

CAUTION! This product has been designed to rest on top of the vehicle's dashboard. Suction cups are provided to prevent lateral movement while the vehicle is in motion. These suction cups should not be used to suspend this product above the dashboard. Clean suction cup mounting surface thoroughly before mounting!

1. Secure the mounting bracket to the light and the suction cups to the bracket.
2. Place the light on the dash board in the location you choose and anchor the light to the windshield using the suction cups.

Wiring:

RED LED Model: Connector plugs into the cigar cord then into the vehicle cigar lighter.



3. Plug the cigar cord extension into the cord exiting the light and then plug the cigar plug into your vehicles cigar lighter.

To reset to the factory default pattern, begin by turning off power to the light. Now, while applying power to the BLUE wire, turn the light back on. Continue to apply voltage to this wire for 5 seconds. When you activate the light again, it will be in the default setting.

Available Scan-Lock™ Patterns

- | | |
|-------------------------------------|---------------------------------------|
| 1 - SingleFlash 90Phase 1 | 6 - SingleFlash 60 Phase 2 |
| 2 - SingleFlash 90Phase 2 | 7 - SingleFlash 120 Phase 1 |
| 3 - SingleFlash 75Phase 1 | 8 - SingleFlash 120 Phase 2 |
| 4 - SingleFlash 75Phase 2 | 9 - Steady (ramp to 40%) |
| 5 - SingleFlash 60Phase 1 | |

IMPORTANT WARNING!
CAUTION! DO NOT LOOK DIRECTLY AT THESE LEDS WHILE THEY ARE ON. MOMENTARY BLINDNESS AND/OR EYE DAMAGE COULD RESULT!

QTY	QTY	QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
		*			01-0684649-0	SINGLE LINEAR-LED® DASH MT LT CHP
		*			01-0684649-W	SINGLE LINEAR-LED® LIGHT / BLUE
	*				01-06846491*W	SINGLE LINEAR-LED® LT EXT MT CHP, WHITE
	*				01-06846491*0	SINGLE LINEAR-LED® LT EXT MT CHP
4	4	4	4	1	14-062219-06D	SCREW / 6-32 X 3/8 PPH ROLOX
-	1	-	1	2	11-243354-007	ENDCAP / EXTRUSION without HOLE 500 SERIES
2	2	2	2	3	38-0143142-01	GASKET / ENDCAP
A/R	A/R	A/R	A/R	4	01-0664818-50	ASSY / 500 LINEAR-LED SYNC RED
A/R	A/R	A/R	A/R	5	01-0664818-20	ASSY / 500 LINEAR-LED SYNC BLUE
1	-	-	1	6	11-46A704-005	HOUSING / 500 SERIES 5.406" BLACK
1	1	1	1	7	26-0215001-06	TY-WRAP / 6" BLACK
-	1	-	1	8	11-243355-007	ENDCAP / EXTRUSION with CABLE HOLE 500 SERIES
1	1	1	1	9	21-11071006-0	GROMMET: 7/32 ID 7/16 OD 3/16 THK
-	-	1	1	10	46-0764861-01	ASSY / INPUT CABLE
2	2	2	2	11	39-2H17430-02	SEAL / GANG 2 POS
2	2	2	2	12	39-0917425-02	HOUSING / PLUG 2 X 1 POS MINI UMNL
2	2	2	2	13	39-2H17429-02	SEAL / INTERFACE 2 POS
1	1	-	-	14	46-0764861-02	ASSY, INPUT CABLE / Not Shown
2	2	2	2	15	13-104120-062	NUT / 10-24 120-062
-	-	1	1	17	07-243400-023	BRACKET / BAIL STRAP
-	-	3	3	18	08-1522840-00	SUCTION CUP / MUSHROOM HEAD
1	-	1	1	19	46-0743413-00	ASSY / COIL CORD CIGAR PLUG
1	-	2	2	20	14-104436-080	SCREW / 10-24 X 1/2 HEX HD MS
1	-	1	-	21	11-46A704-105	HOUSING / 500 SERIES 5.406" / WHITE
1	-	1	-	22	11-243355-001	ENDCAP / EXTRUS. with CABLE HOLE 500 SERIES / WHT
1	-	1	-	23	11-243354-001	ENDCAP / EXTRUS. without HOLE 500 SERIES / WHT
2	2	-	-	24	14-104436-120	SCREW / 10-24 X 3/4 HEX HD MS

PART NUMBER KEY:
01-0684649

HOUSING COLOR
LED COLOR
MOUNT

HOUSING COLOR
0 = BLACK
W = WHITE

LED COLOR MOUNT
2 = BLUE - = DASH
5 = RED 1 = EXTERNAL

