

WHELEN[®]

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Installation Guide: PAR-36 LED Lighthouse

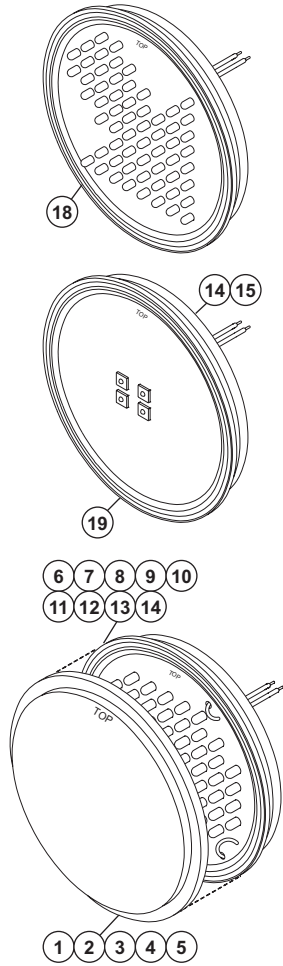
Safety First

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

The **PAR-36 LED lighthouse** is an after market replacement for your existing PAR-36 lighthouses that will provide a brighter display for added safety. Install the PAR-36 using the mounting hardware from your existing lighthouse. **NOTE: All customer supplied wire must be 18 AWG minimum.** **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!**



QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	ITEM	PART NUMBER	DESCRIPTION
													*		01-06631392RR	ASSY, LIGHTHEAD, 300 LED BRAKE/TAIL/TURN (MIN)
													*		01-06631395AA	ASSY, LIGHTHEAD, 300 LED FLASHER - AMBER
													*		01-06631395BB	ASSY, LIGHTHEAD, 300 LED FLASHER - BLUE
													*		01-06631395GG	ASSY, LIGHTHEAD, 300 LED FLASHER - GREEN
													*		01-06631395RR	ASSY, LIGHTHEAD, 300 LED FLASHER - RED
													*		01-06631395CW	ASSY, LIGHTHEAD, 300 LED FLASHER - WHITE
													*		01-0663139BRR	ASSY, LIGHTHEAD, 300 LED BRAKE/TAIL/TURN (MAX)
													*		01-06631396CW	ASSY, LIGHTHEAD, 300 LED FLOOD - WHITE
													*		01-06631398AA	ASSY, LIGHTHEAD, 300 LED CLEARANCE - AMBER
													*		01-06631398RR	ASSY, LIGHTHEAD, 300 LED CLEARANCE - RED
													*		01-06631394AA	ASSY, LIGHTHEAD, 300 LED TURN - AMBER
													*		01-06631393AA	ASSY, LIGHTHEAD, 300 LED ARROW - AMBER
-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	68-3983473-1S	LENS, NON OPTIC, 300 - AMBER with SEAL
-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	68-3983473-2S	LENS, NON OPTIC, 300 - BLUE with SEAL
-	-	-	-	1	-	1	-	-	-	-	-	-	-	3	68-3983473-3S	LENS, NON OPTIC, 300 - CLEAR with SEAL
-	-	-	-	-	-	-	-	-	1	-	-	-	-	4	68-3983473-4S	LENS, NON OPTIC, 300 - GREEN with SEAL
-	-	1	-	-	1	-	1	-	-	-	-	-	-	5	68-3983473-5S	LENS, NON OPTIC, 300 - RED with SEAL
-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	01-0263138-R2	SUB ASSY, 300 LED BRAKE/TAIL/TURN (MIN)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	01-0263138-A0	SUB ASSY, 300 LED FLASHER - AMBER
-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	01-0263138-B0	SUB ASSY, 300 LED FLASHER - BLUE
-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	01-0263138-G0	SUB ASSY, 300 LED FLASHER - GREEN
-	-	-	-	-	-	-	-	1	-	-	-	-	-	10	01-0263138-R0	SUB ASSY, 300 LED FLASHER - RED
-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	01-0263138-W0	SUB ASSY, 300 LED FLASHER - WHITE
-	-	-	-	-	1	-	-	-	-	-	-	-	-	12	01-0263138-R1	SUB ASSY, 300 LED BRAKE/TAIL/TURN (MAX)
-	-	-	-	1	-	-	-	-	-	-	-	-	-	13	01-0263138-W1	SUB ASSY, 300 LED FLOOD - WHITE
-	-	-	1	-	-	-	-	-	-	-	-	-	-	14	01-0263314-10	SUB ASSY, 300 LED CLEARANCE - AMBER
-	-	1	-	-	-	-	-	-	-	-	-	-	-	15	01-0263314-50	SUB ASSY, 300 LED CLEARANCE - RED
-	1	-	-	-	-	-	-	-	-	-	-	-	-	16	01-0263138-A2	SUB ASSY, 300 LED TURN - AMBER
1	1	1	1	1	1	1	1	1	1	1	1	1	1	17	10-0522720-**	LABEL, 300 SERIES LED (Not shown)
1	-	-	-	-	-	-	-	-	-	-	-	-	-	18	01-0263138-A3	SUB ASSY, 300 LED ARROW - AMBER

WIRING DIAGRAMS
(All fuses are customer supplied)



STYLE	Part Number Key	01-0663139
2 = B-T-T / MIN	LENS COLOR	LED COLOR
3 = ARROW	A = AMBER	A = AMBER
4 = TURN	B = BLUE	B = BLUE
5 = FLASHER	C = CLEAR	G = GREEN
6 = FLOOD	G = GREEN	R = RED
8 = CLEARANCE	R = RED	W = WHITE
B = B-T-T / MAX	R = RED	W = WHITE

Pattern Selection: Pattern selection is accomplished using one of two methods. Earlier models use Pattern Activation Pins for pattern selection. Later versions use a Scan-Lock™ wire (WHITE-VIOLET) for pattern selection.

WARNING: PATTERN SELECTION REQUIRES THE LED TO BE TURNED ON. DO NOT LOOK DIRECTLY AT LEDs WHILE UNIT IS IN OPERATION.

PATTERN SELECTION PROCEDURE / Pattern Activation Pins:

Although the location of the pins vary for each LED board, this procedure is applicable to all LED boards using pattern activation pins. The location will be different between models, but they will always be on the LED side of the circuit board. **Remove the lens, locate the pattern activation pins then turn the lighthouse on.**

TO CYCLE FORWARD THROUGH PATTERNS: Use a penny (or any electrical conducting item) to contact both pattern activation pins for less than 1 second and release. Repeat to advance to the next pattern.

TO CHOOSE A PATTERN: While cycling through patterns, allow a pattern to run for more than 5 seconds. This will become the default pattern.

TO CYCLE BACKWARDS THROUGH PATTERNS: Hold a penny against the pattern activation pins for more than 1 second and release. After the desired pattern has been selected, turn off the LED and remount the lens.

TO RESET TO THE DEFAULT PATTERN: Turn the lighthouse off. While holding a penny against the pattern activation pins, turn the lighthouse back on.

PATTERN SELECTION PROCEDURE / Scan-Lock™: Locate the WHITE-VIOLET (Scan-Lock™) wire then turn the lighthouse on.

TO CYCLE FORWARD THROUGH PATTERNS: Apply +12V to the WHT/VIO wire for less than 1 second and release. Repeat to advance to the next pattern.

TO CHOOSE A PATTERN: While cycling through patterns, allow a pattern to run for more than 5 seconds. This will become the default pattern.

TO CYCLE BACKWARDS THROUGH PATTERNS: Apply +12V to the WHT/VIO wire for more than 1 second and release.

TO RESET THE LIGHTHEAD TO THE DEFAULT PATTERN: Turn the lighthouse off. While applying +12V to the WHT/VIO wire, turn the lighthouse on. Continue to apply the 12V until the default pattern is active (approximately 3 seconds).

Available Flash Patterns: **RapidFire™ 375** - 375 Single Flashes Per Minute > **RapidFire 150** - 150 Single Flashes Per Minute > **RapidFire 75** - 75 Single Flashes Per Minute > **RapidFire 30** - 30 Single Flashes Per Minute > **DoubleFlash 150** - 150 Double Flashes Per Minute > **DoubleFlash 75** - 75 Double Flashes Per Minute > **CometFlash®** - 75 Comet Flashes Per Minute > **ActionFlash™** - 2 Comet Flash / 4 x 150 SFP / 2 Comet > **ModuFlash™** - 75 to 360 Single Flashes Per Minute > **SignalAlert™ 150** - 150 Flashes Per Minute > **SignalAlert 75** - 75 Flashes Per Minute > **Scan** - 2 Cycles of Patterns 3 thru 12 **Flash Patterns Stop-Tail-Turn Only:** **SignalAlert Brake** - 4 Flashes Cycle for 200 MS followed by Steady Burn > **Standard Brake** - Steady Burn **Flash Patterns Arrow Only:** **SignalAlert™ Arrow 375** - 375 Flashes Per Minute > **SignalAlert Arrow 150** - 150 Flashes Per Minute > **Sequence Arrow 150** - 150 Flashes Per Minute > **Sequence Arrow 60** - 60 Flashes Per Minute