

WHELEN[®]

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Installation Guide: 400 Series Lighthouse Halogen Warning, Halogen Brake/Tail/Turn, Halogen-LED Warning

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

Installation:

1. Position the lighthead in its approximate mounting location to make sure that the lighthead will not interfere with any existing equipment. Also be aware of any and all items on the opposite side of the mounting surface to prevent any possible damage to existing components.
2. Remove the lighthead. Measure and mark off onto the mounting surface, the mounting holes and cut-out shown in the mounting diagram.
3. Using an appropriately sized drill bit, drill the pilot holes as shown.
4. Using a cutting tool, cut an opening in the mounting surface as indicated.
5. Extend the wires (or route the cable assembly if included) to the power source (see wiring). Test operation of lighthead before securing to vehicle.
6. Secure the assembly onto the mounting surface with the supplied sheet metal screws.

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!

WIRING:

HALOGEN: WARNING

RED+12 VDC
BLACK GROUND

HALOGEN: B/T/T

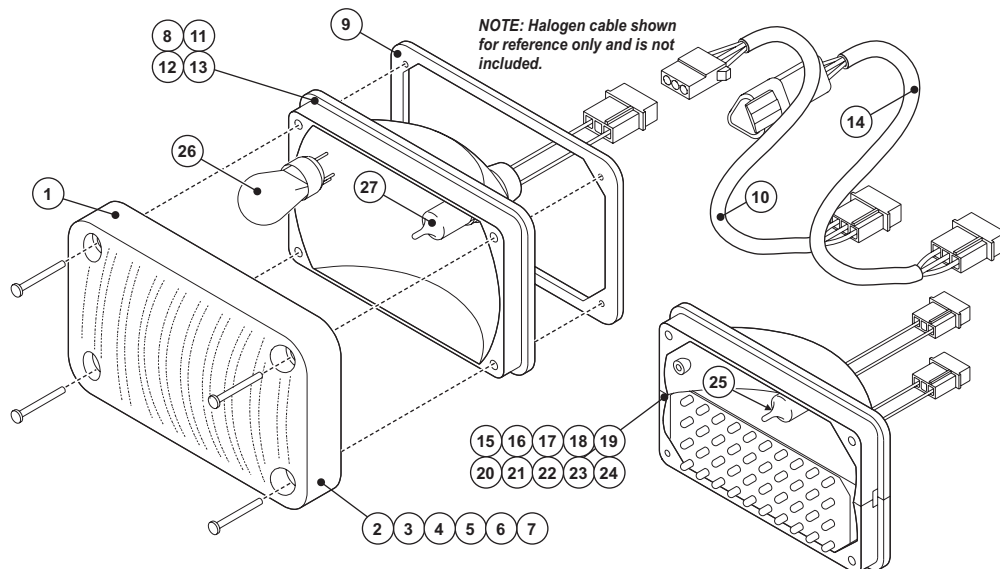
REDTAILLIGHT / +12VDC
BLACK BRAKE LIGHT / +12VDC
WHITEGROUND

LED: STEADY

This wire will be the+12 VDC color of the LED
BLACK-WHITE (24V) GROUND or BLACK (12V)

LED: BRAKE/TAI/TURN

YELLOW BRAKE LIGHT / +12VDC
BROWNTAILLIGHT / +12VDC
WHITEGROUND



QTY	QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
	*			01-0663477-___	MODEL 400 SERIES ASS'Y., HALOGEN
	*			01-06634771	MODEL 400 SERIES ASS'Y., BRAKE/TAI/TURN
	*			01-06634772	MODEL 400 SERIES ASS'Y., HALOGEN-LED
4	4	4	1	15-061416-240	SCREW, #6 x 1 1/2" PPHSMS
A/R	A/R	A/R	2	68-1183726-1S	LENS, AMBER
A/R	-	A/R	3	68-1183726-2S	LENS, BLUE
A/R	-	A/R	4	68-1183726-3S	LENS, CLEAR
A/R	-	A/R	5	68-1183726-4S	LENS, GREEN
A/R	A/R	A/R	6	68-1183726-5S	LENS, RED
-	-	A/R	7	02-0363483__S	SPLIT LENS, HALOGEN ONLY, SPECIFY COLORS
-	-	A/R	8	02-0363189-00	ASS'Y., REFLECTOR, HALOGEN-WARNING, AMP
1	1	1	9	38-0262867-00	GASKET
A/R	A/R	A/R	10	01-0440624-15	CABLE ASS'Y., with KIT
-	A/R	-	11	02-0363189-01	ASS'Y., REFLECTOR, BRAKE/TAI/TURN, AMP
-	-	A/R	12	02-0363189-02	ASS'Y., REFLECTOR, HALOGEN WARNING, DEUTSCH
-	A/R	-	13	02-0363189-03	ASS'Y., REFLECTOR, BRAKE/TAI/TURN, DEUTSCH
A/R	A/R	A/R	14	01-0442199-15	CABLE ASS'Y., with KIT, WATERPROOF
A/R	-	-	15	02-0363318-H1	ASS'Y., REFLECTOR HALOGEN-LED, AMBER
A/R	-	-	16	02-0363318-H2	ASS'Y., REFLECTOR HALOGEN-LED, BLUE
A/R	-	-	17	02-0363318-H3	ASS'Y., REFLECTOR HALOGEN-LED, WHITE
A/R	-	-	18	02-0363318-H4	ASS'Y., REFLECTOR HALOGEN-LED, GREEN
A/R	-	-	19	02-0363318-H5	ASS'Y., REFLECTOR HALOGEN-LED, RED
A/R	-	-	20	02-03633181H1	ASS'Y., REFLECTOR HALOGEN-LED, AMBER, DEUTSCH
A/R	-	-	21	02-03633181H2	ASS'Y., REFLECTOR HALOGEN-LED, BLUE, DEUTSCH
A/R	-	-	22	02-03633181H3	ASS'Y., REFLECTOR HALOGEN-LED, WHITE, DEUTSCH
A/R	-	-	23	02-03633181H4	ASS'Y., REFLECTOR HALOGEN-LED, GREEN, DEUTSCH
A/R	-	-	24	02-03633181H5	ASS'Y., REFLECTOR HALOGEN-LED, RED, DEUTSCH
1	-	-	25	34-0041987-04	SNAP-IN LAMP, 12V-20W
-	1	-	26	34-0062389-00	SNAP-IN LAMP, 12.8V / 14V-27 / 12W
-	-	1	27	34-0041987-03	SNAP-IN LAMP, 12V-27W

PART NUMBER KEY:

CABLE COLOR STYLE

01-0663477

STYLE

- = WARNING LIGHT
1 = BRAKE/TAI/TURN
2 = HALOGEN / LED WARNING

COLOR:

R = RED
B = BLUE
G = GREEN
A = AMBER
C = CLEAR
* = SPLIT
5 = RED-CLEAR
2 = BLUE-CLEAR
4 = GREEN-CLEAR
1 = AMBER-CLEAR

CABLE:

0 = AMP without CABLE
1 = AMP with CABLE
2 = DEUTSCH without CABLE
3 = DEUTSCH with CABLE

