

# WHELEN<sup>®</sup>

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Installation Guide:  
Mirror-Beam™  
Models:  
MBCI00, MBLI00, MBPI00 & MBMI00  
2000 Chevrolet Impala

## 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. 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](http://www.whelen.com/warranty)**

## Preparing the Mirror Assembly:

Remove the side mirror assembly from the vehicle. Specific removal procedures can be found in the factory service manual for your vehicle.

1. Using the dimensions found in Fig. 1, drill a 1" hole in the rear of the mirror assembly.

**WARNING! The location of this hole is critical! Be sure that all of the indicated distances are measured accurately. Failure to do so could result in damage to the mirror's motor and/or wiring components!**

2. Locate the lowest mirror assembly mounting stud. As shown in Fig. 2, locate the flat surface adjacent to this stud. Using a 3/8" bit, drill a wire passage hole through this surface. It is important to orient your drill as shown to achieve the proper drilling angle.

## Preparing the Wire Harness:

**Note:** Because the harness must be routed through a specific, narrow and twisting path within the mirror assembly, it is necessary to temporarily extend the length of the harness with a make-shift "snake".

1. Locate the tie-wrap included with your mirror beam and cut the fastener-end off.
2. Locate the end of the MirrorBeam harness that has SOCKET-type terminals installed on the free wires. On strobe models, cut off the non-insulated wire.
3. Strongly secure the tie-wrap to the harness with electrical or similar tape (Fig. 3). Although the purpose of this procedure is to extend the harness length as much as possible using the tie-wrap, it is important to have a sufficient length of the tie-wrap secured to the harness (2" minimum).

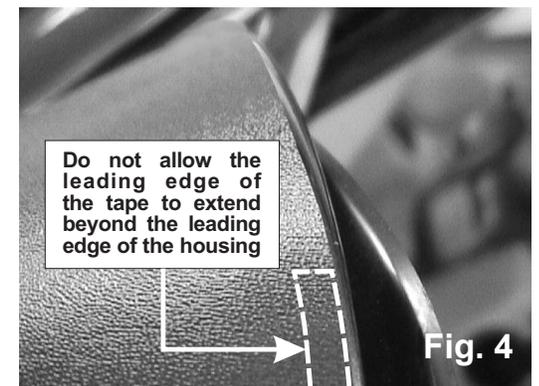
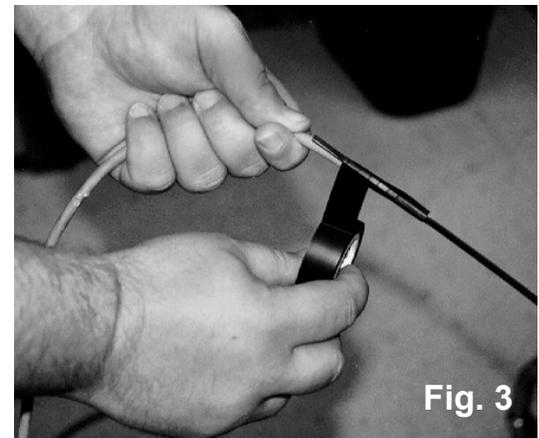
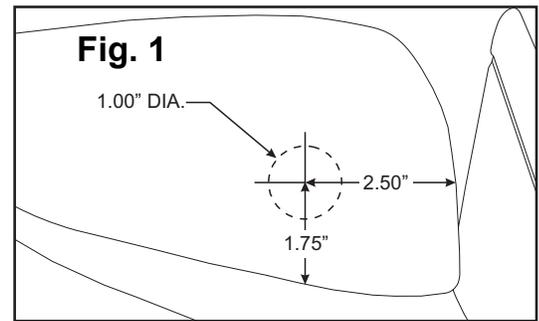
## Routing the Wire Harness:

1. Insert the tie-wrap into the opening drilled in step 3. Feed the tie-wrap into the mirror cavity and out of the hole drilled in step 2. There should not be more than 4 or 5 inches of harness sticking out of the hole. If the length is different from this, adjust harness length accordingly.
2. The tie-wrap is now removed from the harness and the wire terminals inserted into their 2 or 3 position supplied connectors (see wiring last page).

## Affixing Mirrorbeam Housing to Mirror Assembly:

**Note:** The following procedure requires that the mirror assembly be no colder than 60°F (18°C).

1. Thoroughly clean the plastic mirror assembly and the inside surface of the MirrorBeam housing using a 50/50 mixture of isopropyl (rubbing) alcohol and water. Dry completely.
2. Position the MirrorBeam housing onto the mirror assembly. Apply sufficient pressure to simulate its permanently mounted position.
3. Note the location of the edge of the MirrorBeam housing, in relation to the mirror assembly. Later, when applying the tape to the mirror assembly, do not allow any of the tape surface to extend beyond the leading edge off the MirrorBeam housing (Fig. 4).
4. Locate the 6" strips of double-sided adhesive tape included with your MirrorBeam and position one 6" strip on top of the mirror assembly. When properly positioned, the tape will be centered between the inboard and outboard ends of the mirror assembly and the leading edge of the tape will be set back approximately 1/4" from the rear (mirror side) edge of the assembly. After the tape is positioned, it is important to apply pressure to the protective backing so that the tape adheres to the surface.
5. Cut the remaining 6" length of tape in half. Using the procedure outlined in the previous step, adhere one 3" length of tape to the outboard end of the mirror assembly. The remaining 3" length will be adhered to the bottom of the mirror assembly



6. Fold the protective backing strips on the top, bottom and outboard tape strips so that 1/2" to 3/4" of backing is extended over the edge of the mirror assembly (or the mold seam, in the case of the bottom tape). Trim and remove the exposed tape.
7. Mount the MirrorBeam housing onto the mirror assembly. **The housing must fully engage the mirror assembly!**
8. Remove the protective backing strips. To accomplish this, the housing can not be in contact with the backing strips. Starting with the outboard strip, and using a small, flat blade screwdriver (or similar tool) gently pry the housing 1/4" away from the mirror assembly. Carefully pull the protective strip "tab" created in step 6, and gently remove it completely from the tape strip. Do not allow the strip to tear while being removed.
9. Repeat for the tape strips on the top and bottom of the assembly.
10. Apply pressure to the MirrorBeam assembly at the tape locations. Maintain pressure for a minimum of 20 minutes to allow the tape to properly setup. This can be accomplished by wrapping the MirrorBeam/mirror assembly tightly with adhesive tape. See important adhesion information at the end of this manual.
11. Locate the factory-drilled hole in the MirrorBeam housing. Using a 1/8" drill bit and the MirrorBeam housing as a template, drill a hole into the mirror housing. Locate the #8 x 1/2" sheet metal screw (included) and secure the MirrorBeam housing to the mirror housing.

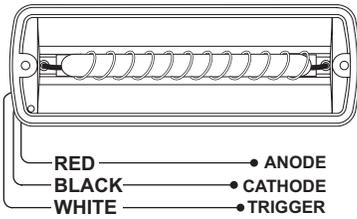
### ***Re-assembling the Mirrorbeam:***

1. Re-connect the mirror assembly to it's main power harness. Route the MirrorBeam harness through the door, along the same path as the vehicle's main power harness and connect to power (See wiring diagrams on next page).
  - **FOR LED, connect to a switched +12VDC power source. Install a 3 Amp fuse (customer supplied) within 2 wire feet of this source.**
  - **FOR STROBE, cut the non-insulated wire off the strobe harness. Insert the PIN-type terminals into the provided connector. Insert plug into power supply and confirm proper operation.**
2. Using the original hardware, remount the mirror onto the vehicle.

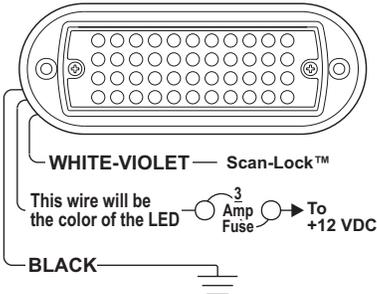
**WARNING! The tape adhesive used in this procedure is fully bonded after 72 hours @ 70°F (21°C). During this period, do not expose the MirrorBeam to any un-necessary force, such as a high-pressure car wash.**

**WARNING! The strobe power supply is a high voltage device. Do not touch or remove the strobe tube assembly while in operation. Wait at least 10 minutes after disconnecting power before starting work on the power supply or system.**

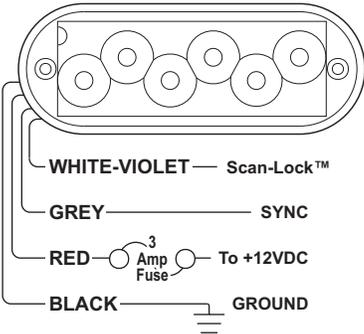
### Items 4, 5, 6, 7 & 8 / STROBE



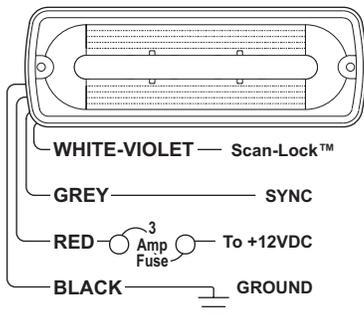
### Items 9, 10, 11, 12 & 13 / LED



### Items 19, 20, 21 & 22 / TIR



### Items 25, 26, 27, 28 & 29 / LINEAR



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

#### OPERATION:

Depending on which lighthead is installed in your Mirror-Beam, you may be able to change flash patterns or synchronize lighthead to flash simultaneously or alternately. This manual gives you basic wiring and installation. For information on the operation of your Mirror-Beam refer to the lighthead manual included.

QTY	ITEM	PART NUMBER	DESCRIPTION								
								*		01-06836095_S	MIRROR BEAM PASS. SIDE STROBE - IMPALA
								*		01-06836095_L	MIRROR BEAM PASS. SIDE LED - IMPALA
								*		01-06836095_T	MIRROR BEAM PASS. SIDE TIR - IMPALA
				*						01-06836085_S	MIRROR BEAM DRIVER SIDE STROBE - IMPALA
			*							01-06836085_L	MIRROR BEAM DRIVER SIDE LED - IMPALA
		*								01-06836085_T	MIRROR BEAM DRIVER SIDE TIR - IMPALA
*										01-06836085_P	MIRROR BEAM PASS. SIDE LINEAR LED - IMPALA
*										01-06836085_P	MIRROR BEAM DRIVER SIDE LINEAR LED - IMPALA
2	2	2	2	2	2	2	2	2	1		SCREW / #10-24 X 3/4" PPHMS
2	2	2	2	2	2	2	2	2	2		SCREW / #8 X 5/8" PPHMS SS
2	2	2	2	2	2	2	2	2	2A		#8 FASTEX SCREW GROMMET
1	1	1	1	1	1	1	1	1	3	11-763226-000	BLACK FLANGE
-	-	-	-	A/R	-	-	A/R	-	4	01-0683565-A0	LINEAR STROBE - AMBER/AMP
-	-	-	-	A/R	-	-	A/R	-	5	01-0683565-B0	LINEAR STROBE - BLUE/AMP
-	-	-	-	A/R	-	-	A/R	-	6	01-0683565-C0	LINEAR STROBE - CLEAR/AMP
-	-	-	-	A/R	-	-	A/R	-	7	01-0683565-G0	LINEAR STROBE - GREEN/AMP
-	-	-	-	A/R	-	-	A/R	-	8	01-0683565-R0	LINEAR STROBE - RED/AMP
-	-	-	A/R	-	-	A/R	-	-	9	02-0383558513	LED FLASHER - AMBER/CLEAR 3 POS
-	-	-	A/R	-	-	A/R	-	-	10	02-0383558523	LED FLASHER - BLUE/CLEAR 3 POS
-	-	-	A/R	-	-	A/R	-	-	11	02-03835585C3	LED FLASHER - WHITE/CLEAR 3 POS
-	-	-	A/R	-	-	A/R	-	-	12	02-0383558543	LED FLASHER - GREEN/CLEAR 3 POS
-	-	-	A/R	-	-	A/R	-	-	13	02-0383558553	LED FLASHER - RED/CLEAR 3 POS
1	1	1	1	1	1	1	1	1	14	15-08141A-080	SCREW / #8 X 1/2" PPHMS BLACK PHOS
2	2	2	2	2	2	2	2	2	15	66-0416642-00	MOUNTING TAPE (Not Shown)
1	1	1	1	1	1	1	1	1	16	46-0742172-15	CABLE ASSEMBLY 3/C
1	1	1	1	1	1	1	1	1	17	01-0415532-00	CABLE INSTALLATION KIT
1	1	1	1	1	1	1	1	1	18	26-0315001-14	TY-WRAP / 14 1/2" BLACK (Not Shown)
-	-	A/R	-	-	A/R	-	-	-	19	01-0663507123	TIR FLASHER / AMBER-CLEAR 3 POS
-	-	A/R	-	-	A/R	-	-	-	20	01-0663507223	TIR FLASHER / BLUE-CLEAR 3 POS
-	-	A/R	-	-	A/R	-	-	-	21	01-0663507C23	TIR FLASHER / WHITE-CLEAR 3 POS
-	-	A/R	-	-	A/R	-	-	-	22	01-0663507523	TIR FLASHER / RED-CLEAR 3 POS
-	1	-	-	-	1	1	1	1	23	11-483440-R00	HOUSING / PASSENGER SIDE / IMPALA
1	-	1	1	1	-	-	-	-	24	11-483440-L00	HOUSING / DRIVER SIDE / IMPALA
A/R	A/R	-	-	-	-	-	-	-	25	01-0664113111	ASSY / PASSIVE LINEAR LED / AMBER-AMP
A/R	A/R	-	-	-	-	-	-	-	26	01-0664113112	ASSY / PASSIVE LINEAR LED / BLUE-AMP
A/R	A/R	-	-	-	-	-	-	-	27	01-0664113113	ASSY / PASSIVE LINEAR LED / WHITE-AMP
A/R	A/R	-	-	-	-	-	-	-	28	01-0664113114	ASSY / PASSIVE LINEAR LED / GREEN-AMP
A/R	A/R	-	-	-	-	-	-	-	29	01-0664113115	ASSY / PASSIVE LINEAR LED / RED-AMP

**IMPORTANT NOTE:** If your MirrorBeam housing has metal inserts where the lighthead mounts, you will use ITEM 1 to mount the lighthead. If it has no metal insert you will use ITEMS 2 and 2A.

PART NUMBER KEY:  
 01-06836085

LIGHTHEAD  
 COLOR  
 MODEL

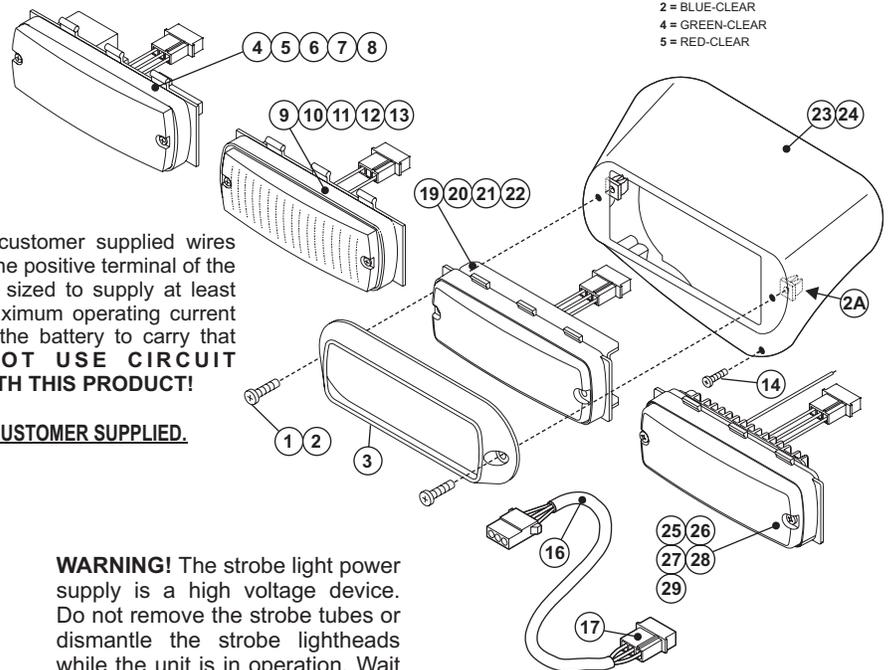
MODEL  
 5 = IMPALA

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

LIGHTHEAD  
 S = STROBE  
 L = LED (5mm)  
 T = TIR LED  
 P = LINEAR LED

**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!**

**ALL FUSES ARE CUSTOMER SUPPLIED.**



**WARNING!** The strobe light power supply is a high voltage device. Do not remove the strobe tubes or dismantle the strobe lighthead while the unit is in operation. Wait 10 minutes after turning off power Before starting any work or trouble shooting on the system.