

# WHELEN<sup>®</sup>

ENGINEERING COMPANY INC.

Route 145, Winthrop Road,

Chester, Connecticut 06412

Phone: (860) 526-9504

Fax: (860) 526-4078

Internet: [www.whelen.com](http://www.whelen.com)

Sales e-mail: [autosale@whelen.com](mailto:autosale@whelen.com)

Canadian Sales e-mail: [autocan@whelen.com](mailto:autocan@whelen.com)

Customer Service e-mail: [custserv@whelen.com](mailto:custserv@whelen.com)

## Installation Guide: Mirror-Beam™ Model MBLU98 (1998 Chevy Lumina)

### 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)**

### To Remove the Side Mirror Assembly:

1. Remove the door panel from the vehicle.
2. Remove the nuts that secure the mirror housing to the vehicle. Unplug the mirror's harness cable from the door's power harness.
3. Carefully remove the mirror housing from the vehicle.

### To Prepare the Mirror Assembly:

1. Carefully remove the mirror housing's foam rubber mounting gasket. Do not allow this gasket to tear.
2. Locate and remove the 4, torx-head screws that secure the mirror assembly to the mirror housing. Three of these screws are located in the mirror housing's mounting surface (Fig. 1). The remaining screw is located on the underside of the mirror housing.
3. Remove the mirror assembly from the mirror housing.
4. Locate the area indicated in Fig. 2, a top view of the passenger-side mirror.
5. After measuring the distances indicated, mark this location.
6. Using a 3/8" drill bit, carefully drill into the area marked in Step 5. Be sure to remove any shavings caused by the drilling process.

### Routing the Strobe Cable:

1. Insert the socketed end of the cable through the mounting gasket, mirror housing and mirror assembly via the same pathway as the mirror power cable (Fig. 3).

Fig. 1

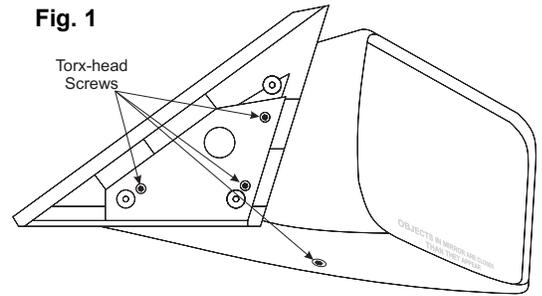


Fig. 2

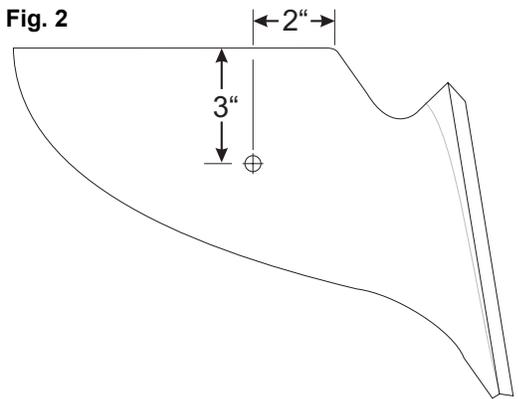
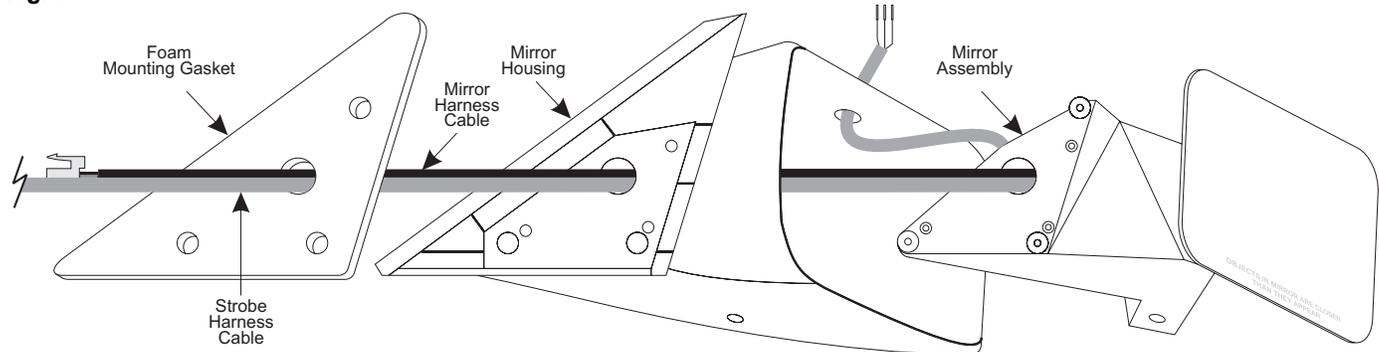


Fig. 3



2. Once the cable is through the mirror assembly, feed it through the hole drilled in the "To prepare the mirror assembly" section. 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.
3. The wire terminals are now inserted into their 3 position connector (supplied) as follows (For detailed information, refer to the instruction tag attached to the harness): **Position 1 = Red Position 2 = Black Position 3 = White**
4. Return the mirror assembly to its normal position in the mirror housing and re-mount using the original hardware. Make sure that neither of the cables (strobe and mirror) are crimped or pinched. Tighten the Torx-head screws firmly.

### Affixing the MirrorBeam to the Mirror Housing:

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

1. Thoroughly clean the plastic mirror housing and the inside surface of the MirrorBeam housing using a 50/50 mixture of isopropyl (Not rubbing) alcohol and water. Dry completely.
2. Locate the two, 6" strips of double-sided adhesive tape included with your MirrorBeam.
3. Position one 6" strip on the top of the mirror assembly. When properly positioned, the tape will be centered between the inboard and outboard ends of the mirror housing 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.
4. 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 bottom of the mirror housing and the remaining 3" length to the curved "neck" of the mirror assembly.
5. Fold the protective backing strips on the top and bottom tape strips so that 1/2" to 3/4" of backing is extended over the edge of the mirror housing. Trim and remove the exposed tape. Remove the protective backing completely from the tape strip on the "neck" of the mirror.
6. Place the mirror housing mirror-side down on your work area. Lower the MirrorBeam housing onto the mirror housing until the MirrorBeam is also in contact with the work table. **The housing must fully engage the mirror assembly!** Press the housing firmly onto the exposed tape on the "neck" of the mirror.

7. The remaining protective backing strips must now be removed. To accomplish this, the housing must not be in contact with the backing strips. Starting with the bottom strip, and using a small, flat blade screwdriver (or similar tool) gently pry the housing about 1/4" away from the mirror housing. 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.
8. Repeat for the tape strip on the top of the housing.
9. Apply pressure to the MirrorBeam 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 tightly with adhesive tape. **IMPORTANT: 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 the high-pressure water from a car wash.**
10. 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 Assembly:**

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 finally to the strobe power supply mounted in the vehicle.
2. Cut the non-insulated wire off the strobe harness. Insert the PIN-type terminals into the provided connector as detailed in the "Routing the strobe harness" section of this manual. Insert plug into power supply and confirm proper strobe operation.
3. Using the original hardware, remount the mirror onto the vehicle.

**NOTE:** The outer surfaces of this product may be cleaned with mild soap and water. Use of any other chemicals may void product warranty. Do not use a pressure washer.

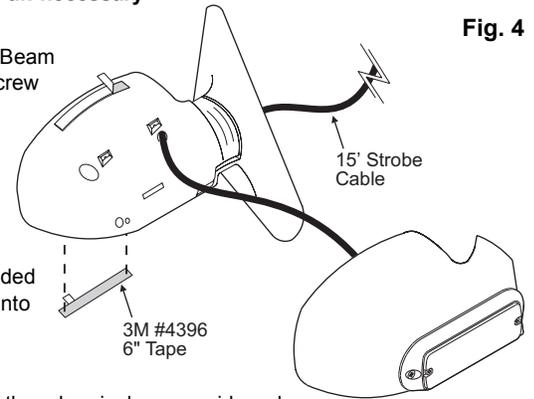
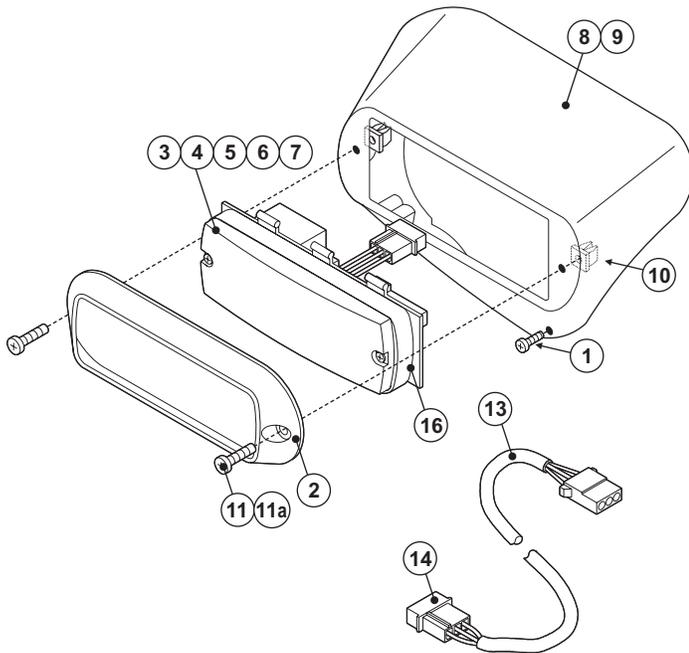


Fig. 4



QTY.	QTY.	ITEM	PART NUMBER	DESCRIPTION
	*		01-06836091__S	MIRROR BEAM / PASSENGER SIDE / STROBE - LUMINA
	*		01-06836081__S	MIRROR BEAM / DRIVER SIDE / STROBE - LUMINA
1	1	1	15-08141A-080	SCREW / #8 X 1/2" P.P.H.S.M.S. BLACK PHOS.
1	1	2	11-763226-000	BLACK FLANGE
A/R	A/R	3	68-3963228-50	LENS / REPLACEMENT / NON-OPTIC / RED
A/R	A/R	4	68-3963228-40	LENS / REPLACEMENT / NON-OPTIC / GREEN
A/R	A/R	5	68-3963228-30	LENS / REPLACEMENT / NON-OPTIC / CLEAR
A/R	A/R	6	68-3963228-20	LENS / REPLACEMENT / NON-OPTIC / BLUE
A/R	A/R	7	68-3963228-10	LENS / REPLACEMENT / NON-OPTIC / AMBER
1	-	8	11-483108-L00	HOUSING / DRIVER SIDE - LUMINA
-	1	9	11-483108-R00	HOUSING / PASSENGER SIDE / LUMINA
2	2	10	21-12080905-1	#8 SCREW GROMMET
2	2	11		SCREW / #8 X 5/8" P.P.H.S.M.S.-S.S.
2	2	11a		SCREW / 10-24 X3/4" P.P.H.M.S.
2	2	12	66-0416642-00	MOUNTING TAPE (NOT SHOWN)
1	1	13	46-0742172-15	3/C CABLE ASSEMBLY
1	1	14	01-0415532-00	CABLE INSTALLATION KIT
1	1	15	26-0315001-14	14 1/2" BLACK TY-WRAP (NOT SHOWN)
1	1	16	02-0363292-00	LINEAR STROBE REFLECTOR ASSEMBLY / AMP

**NOTE:** If your housing contains pressed-in metal threaded inserts, use item 11a to secure the lighthead. If it does not use items 10 and 11 to secure the lighthead.