

Warnings to Installers

Whelen's emergency vehicle warning devices must be properly mounted and wired in order to be effective and safe. Read and follow all of Whelen's written instructions when installing or using this device. Emergency vehicles are often operated under high speed stressful conditions which must be accounted for when installing all emergency warning devices. Controls should be placed within convenient reach of the operator so that they can operate the system without taking their eyes off the roadway. Emergency warning devices can require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or vehicle damage, including fire. Many electronic devices used in emergency vehicles can create or be affected by electromagnetic interference. Therefore, after installation of any electronic device it is necessary to test all electronic equipment simultaneously to insure that they operate free of interference from other components within the vehicle. Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment. All devices should be mounted in accordance with the manufacturer's instructions and securely fastened to vehicle elements of sufficient strength to withstand the forces applied to the device. Driver and/or passenger air bags (SRS) will affect the way equipment should be mounted. This device should be mounted by permanent installation and within the zones specified by the vehicle manufacturer, if any. Any device mounted in the deployment area of an air bag will damage or reduce the effectiveness of the air bag and may damage or dislodge the device. Installer must be sure that this device, its mounting hardware and electrical supply wiring does not interfere with the air bag or the SRS wiring or sensors. Mounting the unit inside the vehicle by a method other than permanent installation is not recommended as unit may become dislodged during swerving; sudden braking or collision. Failure to follow instructions can result in personal injury. Whelen assumes no liability for any loss resulting from the use of this warning device. PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.

Warnings to Users

Whelen's emergency vehicle warning devices are intended to alert other operators and pedestrians to the presence and operation of emergency vehicles and personnel. However, the use of this or any other Whelen emergency warning device does not guarantee that you will have the right-of-way or that other drivers and pedestrians will properly heed an emergency warning signal. Never assume you have the right-of-way. It is your responsibility to proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes. Emergency vehicle warning devices should be tested on a daily basis to ensure that they operate properly. When in actual use, the operator must ensure that both visual and audible warnings are not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. The user should be familiar with all applicable laws and regulations prior to the use of any emergency vehicle warning device. Whelen's audible warning devices are designed to project sound in a forward direction away from the vehicle occupants. However, because sustained periodic exposure to loud sounds can cause hearing loss, all audible warning devices should be installed and operated in accordance with the standards established by the National Fire Protection Association.

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.

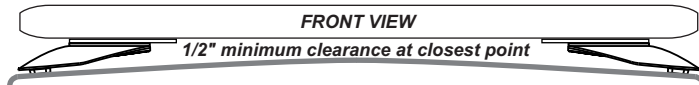
⚠ WARNING: This product can expose you to chemicals including Methylene Chloride which is known to the State of California to cause cancer, and Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
- Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.
- Any holes, either created or utilized by this product, should be made both air- and watertight using a sealant recommended by your vehicle manufacturer.
- Failure to use specified installation parts and/or hardware will void the product warranty.
- 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 the 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 (this does not include products that use cigar power cords).
- If this product uses a remote device for activation or control, make sure that this device is located in an area that allows both the vehicle and the device 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!

NOTE: WeCanX™ lightbars are only compatible with the Whelen Core Command System and can't be used alone or with other control systems.

IMPORTANT! The lightbar must be a minimum of 16" from any radio antennas.

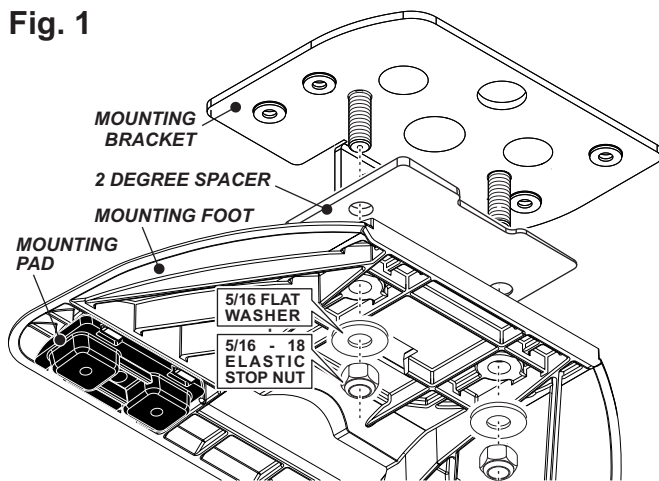
NOTE: There may be a roof support member that spans the distance between the driver's and passengers side. **DO NOT DRILL THROUGH THIS MEMBER!** Adjust the location until the holes can be drilled without contacting this support member.



Unless otherwise specified, lightbar mounting feet must be sitting as close to the edge of the roof as possible and not be hanging off the edge.

IMPORTANT: For strap mounted lightbars, be sure you have the right sized bar for your vehicle. The lightbar should be approximately the same width as the vehicle roof. If too large or small it will not mount properly to the vehicle and may come loose during driving.

Fig. 1



Insert round side of bracket under lip in extrusion

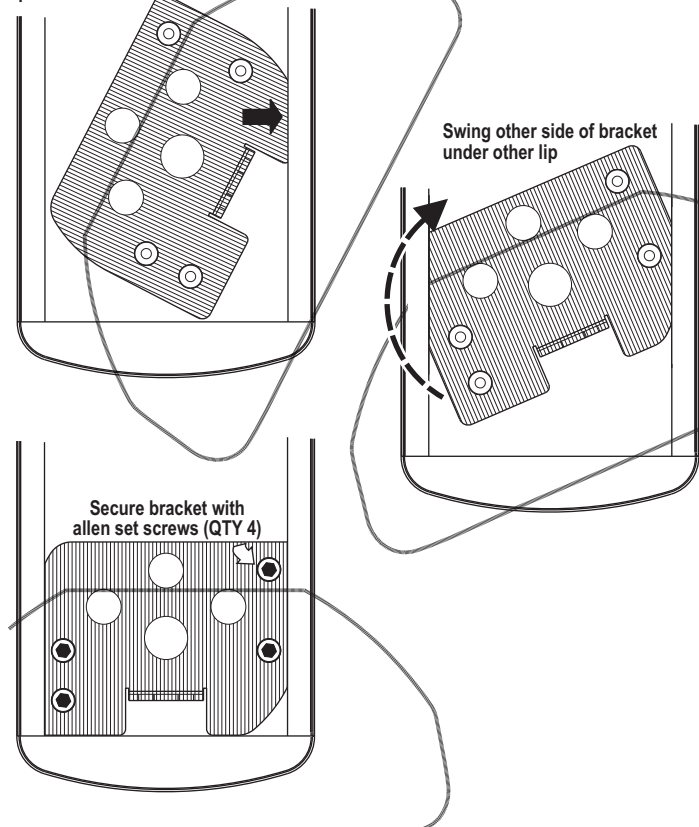


Fig. 2

Strap Mounting:

1. Install the mounting bracket to the mounting foot using the supplied 5/16 FLAT WASHERS and 5/16 - 18 ELASTIC STOP NUTS (Fig. 1). Do NOT install the optional spacers yet.
2. Place the bracket into the track on the bottom of the extruded base of the lightbar and twist it into position (Fig. 2).
3. Slide the bracket to the outer end of the base extrusion and secure the bracket to the extrusion using the four 1/4 - 20 X 1/2 ALLEN SET SCREWS (Fig. 2). Repeat steps 1 - 3 for other side of lightbar.
4. **Installing Spacers:** Spacers are used as required to adjust the lightbars clearance from the vehicle roof. Spacers are also used to make the lightbar level with the road so that the light does not project up or down when viewed from the front or rear of the vehicle. Each spacer creates a 2° incline.

Lightbar angle: Place the lightbar onto the vehicle roof in its exact mounting location and use a level to check the angle of the lightbar. If (because of the curvature of the vehicle roof) the front and rear lights project up or down, you will need to install one of the supplied spacers. Note the angle of the tilt to determine where to place the spacer. **Installation:** Remove the mounting feet (not the bracket) and install the spacer (maximum 1 per side) then reinstall the feet.

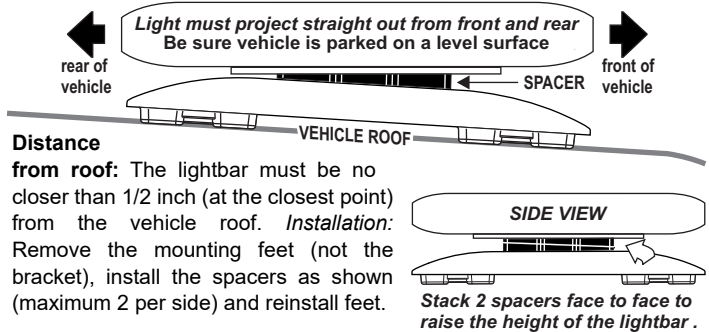
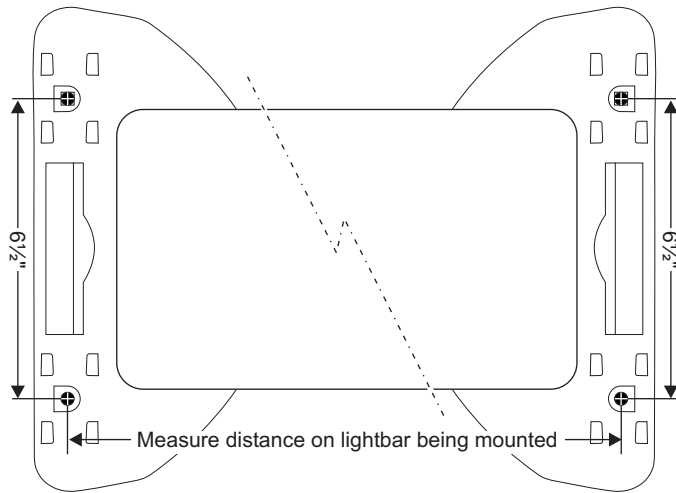


Fig. 3

- NOTE:** With the strap in place on the vehicle roof, there should be 3/8" distance (max) between the end of the strap and the cage nut (before tightening).
-
5. With the lightbar in position on the vehicle, slide the end of the mounting strap (with the single hole) into the mounting foot as shown and loosely secure it to the foot with the tension bolt (Fig. 3). **NOTE:** When the opposite end of the strap (which mounts to the vehicle) is in its mounting position (on the edge of the roof) the end of the strap going to the foot should be no more than 3/8" from the cage nut it mounts to. If the distance from the strap to the cage nut is greater than 3/8", remove the lightbar from the vehicle and move both mounting feet the necessary distance to correct this before doing step 5.
 6. Bring the outside of the mounting strap down to the edge of the vehicle roof. The outer end of the strap should hook around the roof (Fig. 3). Mounting straps are made for specific vehicles and the one designed for your vehicle will conform to the edge of that roof.
 7. Make sure the strap is in position on the edge of the roof and the other end lines up properly with the cage nut. Drill two holes for a #10 screw through the two mounting holes in the strap and secure the strap with the two #10 X 1/2" PHILLIPS PAN HEAD SHEET METAL SCREWS.
 8. Tighten the tension bolt firmly to secure the foot to the vehicle.

Permanent Mounting:



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.

1. Install the mounting foot to the lightbar following steps 1 thru 4 of "Strap Mounting".

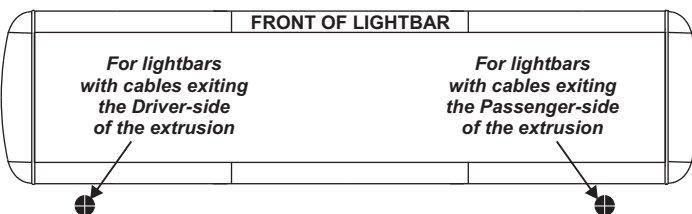
Routing the Lightbar Cable(s):

1. To protect the headliner from damage caused by drilling the cable access hole through the vehicle roof, allow a 5" to 7" distance between roof and headliner by lowering the headliner before drilling.
2. Using a 1" hole saw, drill the cable access hole then use a round file to smooth and de-burr the edges of the hole. Install a 1" grommet (user supplied).

NOTE: There may be a roof support member that spans the distance between the driver's and passenger's side. **DO NOT DRILL THROUGH THIS MEMBER!** Adjust the location until the hole can be drilled without contacting this support member.

3. Insert the cable(s) through the cable access hole into the vehicle. Use RTV silicone to weatherproof the access hole after the cable(s) are pulled completely into the vehicle.
4. Route the cable(s) one at a time to their respective destinations (power cable to vehicle battery; control cable to switch panel). Refer to the instructions included with your switches for switch wiring information.

Drilling the Cable Access Hole



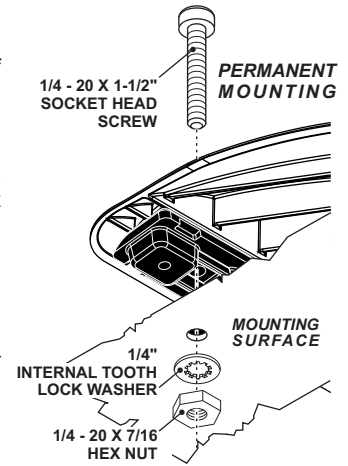
IMPORTANT AIR BAG WARNING! Refer to front cover for necessary air bag precautions.

Connecting the Power Cable:

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!**

1. Follow the factory wiring harness through the firewall. It may be necessary to drill a hole in the firewall. If so, be absolutely sure that there are no components that could be damaged by drilling. After the hole has been drilled, insert a grommet to protect the cable.

2. Position the lightbar onto the vehicle in its exact mounting location and mark the location of the mounting holes onto the mounting surface using the mounting feet as templates. If the permanent mounting holes in the mounting feet are difficult to access, you can use the measurements shown here to mark off and drill the mounting holes. You will also need to measure the distance between the mounting feet for your application since lightbar width will depend on the lightbar you are mounting.

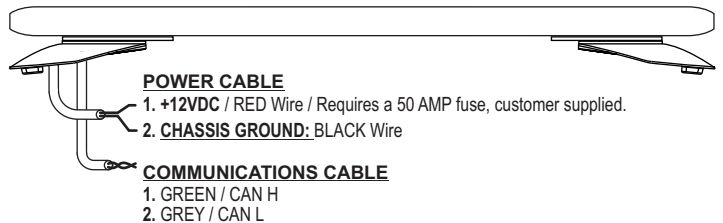


3. Remove lightbar and drill 4 mounting holes.
4. Install the lightbar using the supplied 1/4 - 20 X 1-1/2 Socket Head Screws, 1/4" Internal Tooth Lock Washers and 1/4 - 20 X 7/16 Hex Nuts.

IMPORTANT: It is the responsibility of the installation technician to make sure that the installation and operation of this product will not interfere with or compromise the operation or efficiency of any vehicle equipment! Before returning the vehicle to active service, visually confirm the proper operation of this product, as well as all vehicle components/equipment.

2. Route the cable along the factory wiring harness towards the battery. Install a 50 amp fuse block (customer supplied) on the end of the RED wire in the power cable. **NOTE: Remove the fuse from the fuse block before connecting any wires to the battery.**
3. Connect the BLACK wire to Chassis Ground.

Connecting the Communication Cable:



Splice the GREEN and GREY wires from the lightbar to the GREEN and GREY wires from the Controller.

Troubleshooting:

Your lightbar should now be fully operational. If it is not functioning properly, check your connections for the following:

- The positive wire (RED) is properly connected to the battery, by way of the user supplied fuse block.
- A working 50 amp fuse is installed in the fuse block.
- The ground wire (BLACK) is properly connected to the factory ground. Be sure that the wire is fully grounded to this location.
- The two communication wires (GREEN and GREY) are properly connected to their communication designations.

Refer to your controller instructions for connections and operation.

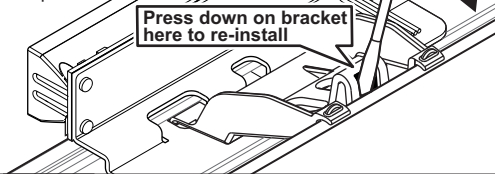
IMPORTANT! It is the responsibility of the installation technician to make sure that the installation and operation of this product will not interfere with or compromise the operation or efficiency of any vehicle equipment!

IMPORTANT WARNING!

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

Insert a flathead screwdriver as shown and pry the bracket out of the extrusion.

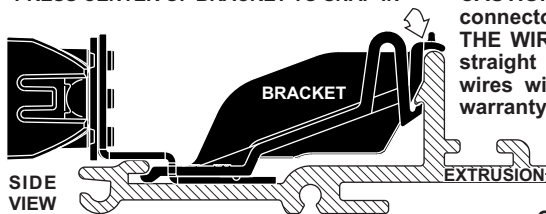
The side view shows how the bracket fits into the extrusion for re-mounting. Press down on the bracket in the center to snap in.



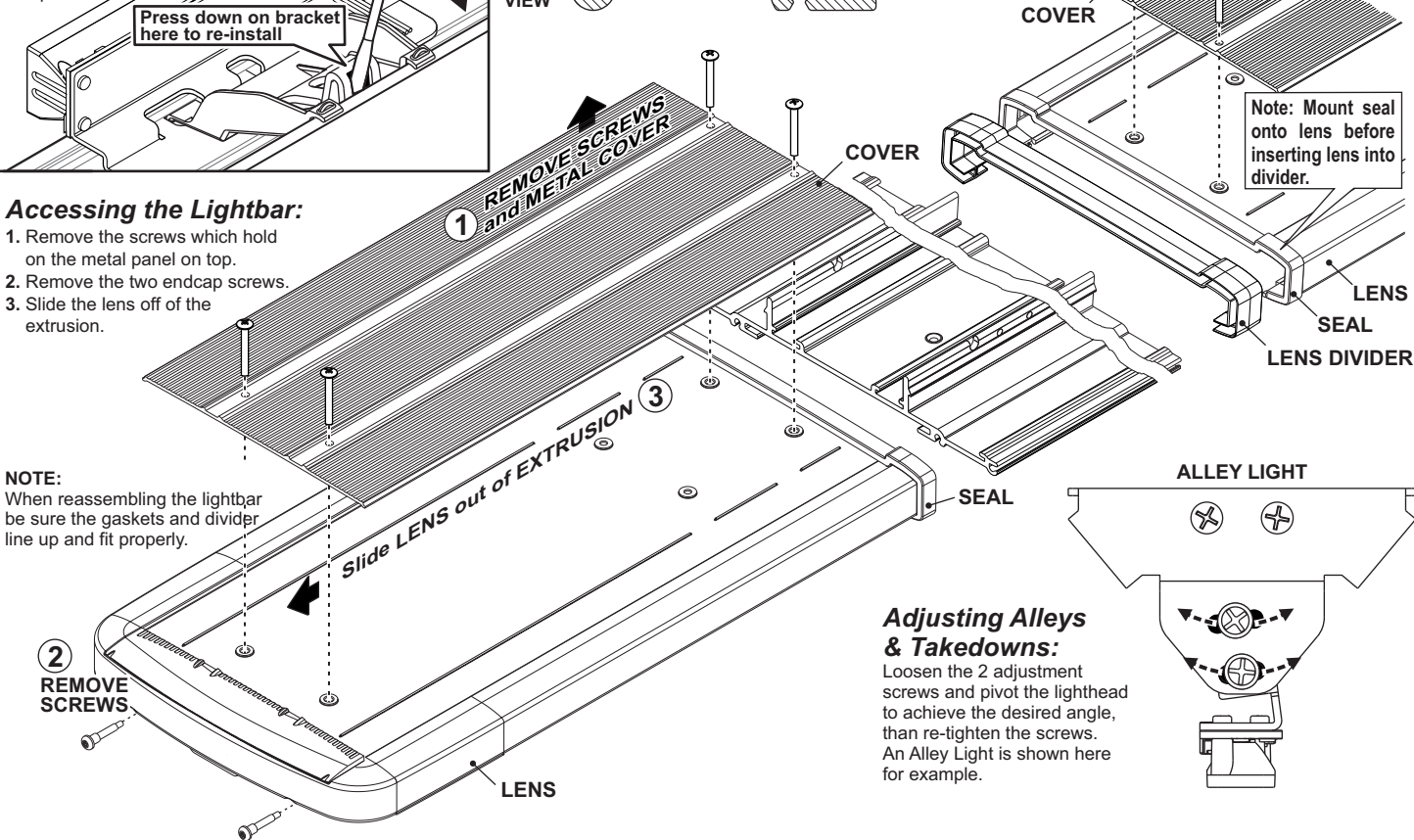
1. Remove the screws which hold on the metal panel on top.
2. Remove the two endcap screws.
3. Slide the lens off of the extrusion.

NOTE:
When reassembling the lightbar be sure the gaskets and divider line up and fit properly.

PRESS CENTER OF BRACKET TO SNAP-IN



CAUTION: If you need to unplug a wire harness connector from a lighthouse, **DO NOT PULL ON THE WIRES!** Very carefully pull the connector straight out of the lighthouse. Pulling on the wires will damage the harness and void the warranty.

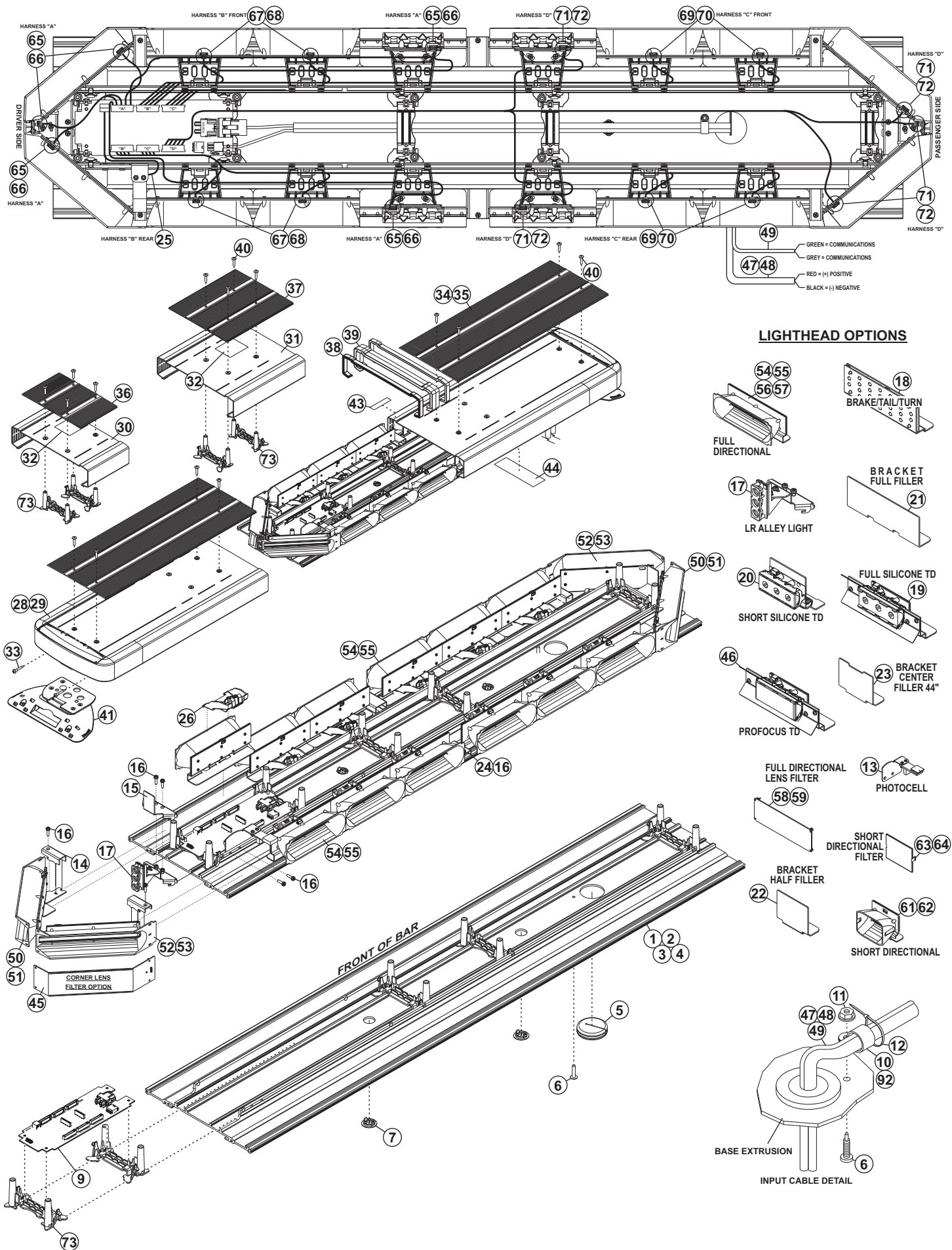


Adjusting Alleys & Takedowns:

Loosen the 2 adjustment screws and pivot the lighthead to achieve the desired angle, then re-tighten the screws. An Alley Light is shown here for example.

SOLO and DUO Lightbars / Refer to parts drawings on page 6

QTY	QTY	QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
			*		01-0688564-___	LIBERTY II LIGHTBAR, 44"
		*			01-0688564-___	LIBERTY II LIGHTBAR, 48"
	*				01-0688564-___	LIBERTY II LIGHTBAR, 54"
*					01-0688564-___	LIBERTY II LIGHTBAR, 59"
-	-	-	1	1	11-387277-039	BASE, EXTRUDED 39.62" MACHINED LEGACY LTBAR
-	-	1	-	2	11-387277-044	BASE, EXTRUDED 44.4" MACHINED LEGACY LTBAR
-	1	-	-	3	11-387385-050	BASE, MACHINED 50.228" LEGACY LIGHTBAR
1	-	-	-	4	11-387385-055	BASE, MACHINED 55.008" LEGACY LIGHTBAR
1	1	1	1	5	21-11245004-1	GROMMET, SPECIAL TO BE MOLDED 1.562"
1	1	1	1	6	14-0023347-01	SCREW, 10-24 X .875" TX PHD SWEDGE FORM 1/4" LEAD 5/8" THD
2	2	2	2	7	21-7263998-00	PLUG, VENT .750 DIA HOLE LIGHTBAR
1	1	1	1	9	02-016J099-00	PCB PRIMARY I/O WeCanX SMT
A/R	A/R	A/R	A/R	10	26-0115037-08	CABLE CLAMP, 1/2"D, 1/2"W .203" MTG HOLE, BLACK
1	1	1	1	11	13-104111-063	NUT, 10-24 CAD PLATED WHIZ OR STEEL ZINC
1	1	1	1	12	26-0215001-06	TY WRAP, 6" BLACK
A/R	A/R	A/R	A/R	13	01-0247065-00	SUB ASSY, PHOTO CELL WC LIBERTY II
4	4	4	4	14	07-226275-000	BRACKET, CORNER CLAMP LIBERTY II
2	2	2	2	15	07-247187-000	BRACKET, END CLAMP NO ALLEY LIBERTY II
12	12	10	8	16	14-062216-081	SCREW, 6-32 X 1/2 PPHMS SEMS W/IT LOCK WASHER 410 SS
A/R	A/R	A/R	A/R	17	01-0247193-30	SUB ASSY, 3LED TIR ALLEY LIGHT LIBERTY II
A/R	A/R	A/R	A/R	18	01-0247195-50	SUB ASSY, STOP/TURN, TAIL WC LIBERTY II
A/R	A/R	A/R	A/R	19	01-026H100-30	SUB ASSY, SILICONE TAKE-DOWN LIBERTY II
A/R	A/R	A/R	A/R	20	01-026H365-30	SUB ASSY, 3LED SHORT SILICONE T-D LIBERTY II
12	12	12	8	21	07-247303-000	BRACKET, FULL FILLER LIBERTY II
8	4	-	4	22	07-247304-000	BRACKET, HALF FILLER LIBERTY II
-	-	-	2	23	07-247154-000	BRACKET, CENTER FILLER LIBERTY II
4	4	2	-	24	07-223841-000	BRACKET, SPACER LEGACY LTBAR
A/R	A/R	A/R	A/R	25	46-0746823-00	HARNESS PHOTOCCELL LEGACY LIGHTBAR
20	16	12	14	26	07-26F382-000	BRACKET, SNAP-IN LT MODULE MT
A/R	A/R	A/R	A/R	27	26-0215001-03	TY WRAP, 3" BLACK
2	2	2	-	28	02-036E774-__0	SUB ASSY, LENS FULL LIBERTY II SERIES
-	-	-	2	29	02-036E7741__0	SUB ASSY, LENS CUT LIBERTY II SERIES
-	1	-	-	30	68-196F366-30	LENS, CLEAR OPTIC CUT CENTER 54" LIBERTY II
1	-	-	-	31	68-196E776-30	LENS, CLEAR OPTIC CUT CENTER LIBERTY II
1	1	-	-	32	10-0346824-00	LABEL, CENTER DOME REMOVAL INSTRUCTIONS
4	4	4	4	33	14-104286-16J	SCREW, 10-24 X 1.25" WAX DIP SHOULDER PHTX TRI POINT SS
2	2	2	-	34	11-26E056-021	COVER, TOP EXTRUDED 21.665" MACHINED 17.625" HOLES LEGACY
-	-	-	2	35	11-26E056-019	COVER, TOP EXTRUDED 19.275" MACHINED 17.625" HOLES LEGACY
-	1	-	-	36	11-26F399-000	COVER, TOP EXTRUDED CENTER 54" LIBERTY II LTBAR
1	-	-	-	37	11-26E377-009	COVER, TOP EXTRUDED CENTER LEGACY LTBAR
4	4	2	2	38	38-046E119-00	SEAL, LENS DIVIDER LIBERTY II
2	2	1	1	39	38-046E118-00	DIVIDER, LENS CLEAR LIBERTY II
12	12	8	8	40	15-105C76-148	SCREW, 10 X 7/8" TXTH (T-25) PLASTITE 48-2 SS 18-8 WINYSEAL
2	2	2	2	41	02-0387331-00	SUB ASSY, LOW PROFILE MTG FOOT
1	1	1	1	43	10-0322935-00	LABEL, "FRONT" LIGHTBAR ASSYS
1	1	1	1	44	10-0548209-00	LABEL, WCX LIGHTBAR IDENTIFIER LIBERTY II
A/R	A/R	A/R	A/R	45	68-396F577-___	LENS, CORNER FILTER NON OPTIC LIBERTY II
A/R	A/R	A/R	A/R	46	01-026J298-30	SUB ASSY, PROFOCUS TAKE-DOWN LIBERTY II
A/R	A/R	A/R	A/R	47	46-0747027-17	ASSY, CABLE INPUT 2/C 10 GA 17" LEGACY SOLO
A/R	A/R	A/R	A/R	48	46-0746800-17	CABLE INPUT 2/C 8 GA 17" LEGACY DUO
1	1	1	1	49	46-0743442-02	CABLE 2/C 20 GA 17" STRIP 3"/770904 SCKT
A/R	A/R	A/R	A/R	50	01-026F608-___	ASSY, CORNER L-FRONT/R-REAR SINGLE ROW SOLO
A/R	A/R	A/R	A/R	51	01-026F637-___	ASSY, CORNER L-FRONT/R-REAR SINGLE ROW DUO
A/R	A/R	A/R	A/R	52	01-026F609-___	ASSY, CORNER L-REAR/R-FRONT SINGLE ROW SOLO
A/R	A/R	A/R	A/R	53	01-026F638-___	ASSY, CORNER L-REAR/R-FRONT SINGLE ROW DUO
A/R	A/R	A/R	A/R	54	01-026F605-__0	SUB ASSY, FULL DIRECTIONAL SOLO LIBERTY II
A/R	A/R	A/R	A/R	55	01-026F606-___	SUB ASSY, FULL DIRECTIONAL DUO LIBERTY II
OPT	OPT	OPT	OPT	56	01-026H844-__5	SUB ASSY, FULL WARNING/BTT *R LIBERTY II
OPT	OPT	OPT	OPT	57	01-026G845-__5	SUB ASSY, FULL WARNING/BTT */R LIBERTY II TRIO
A/R	A/R	A/R	A/R	58	68-3947136-___	LENS, FILTER FULL LINEAR NON OPTIC LIBERTY II
12	12	12	8	59	68-3947136-31	LENS, CLEAR FILTER FULL LINEAR NON OPTIC METALIZED
A/R	A/R	-	A/R	61	01-0247106-___	SUB ASSY, SHORT DIRECTIONAL LIBERTY II SOLO
A/R	A/R	-	A/R	62	01-0247116-___	SUB ASSY, SHORT DIRECTIONAL LIBERTY II DUO
A/R	A/R	-	A/R	63	68-3947100-___	LENS, HALF FILTER NON OPTIC REFLECTOR
8	4	-	4	64	68-3947100-31	LENS, CLEAR HALF FILTER NON OPTIC METALIZED
-	-	1	1	65	46-0788547-00	ASSY, HARNESS "A" 48" & UNDER WCX LTBAR
1	1	-	-	66	46-0788552-00	ASSY, HARNESS "A" 54"-60" WCX LTBAR
-	-	2	2	67	46-0788547-02	ASSY, HARNESS "B" 48" & UNDER WCX LTBAR
2	2	-	-	68	46-0788552-02	ASSY, HARNESS "B" 54"-60" WCX LTBAR
-	-	2	2	69	46-0788547-03	ASSY, HARNESS "C" 48" & UNDER WCX LTBAR
2	2	-	-	70	46-0788552-03	ASSY, HARNESS "C" 54"-60" WCX LTBAR
-	-	1	1	71	46-0788547-01	ASSY, HARNESS "D" 48" & UNDER WCX LTBAR
1	1	-	-	72	46-0788552-01	ASSY, HARNESS "D" 54"-60" WCX LTBAR
7	7	5	5	73	07-26J383-000	BRACKET, I/O LIBERTY II
A/R	A/R	A/R	A/R	74	26-0115663-10	CABLE CLAMP, 5/8"D, 1/2"W .203" MTG HOLE, BLK



4 POS MOLEX

POS	COLOR	ITEM
1	RED	76
2	RED	78-79
3	BLK	76
4	BLK	76-79

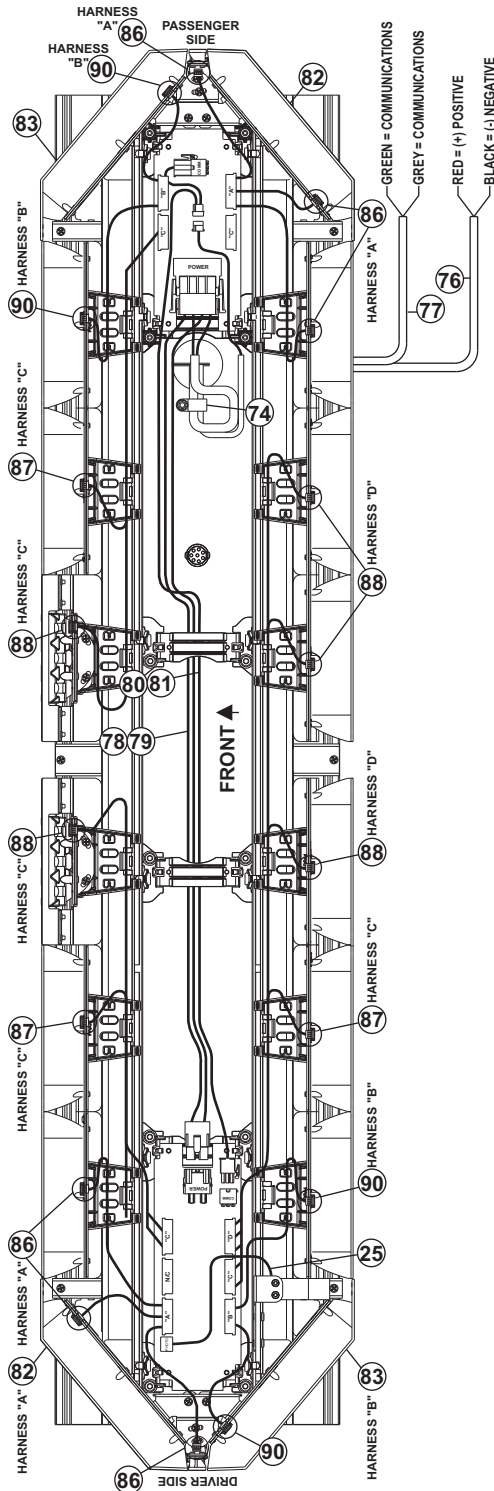
91

4 3 2 1

WIRE SIDE

89

(WIRE MAPPING SHOWN ON 48" BAR)



**EXPANSION I/O
DETAIL**

SHORT TRIO DIRECTIONAL (85)

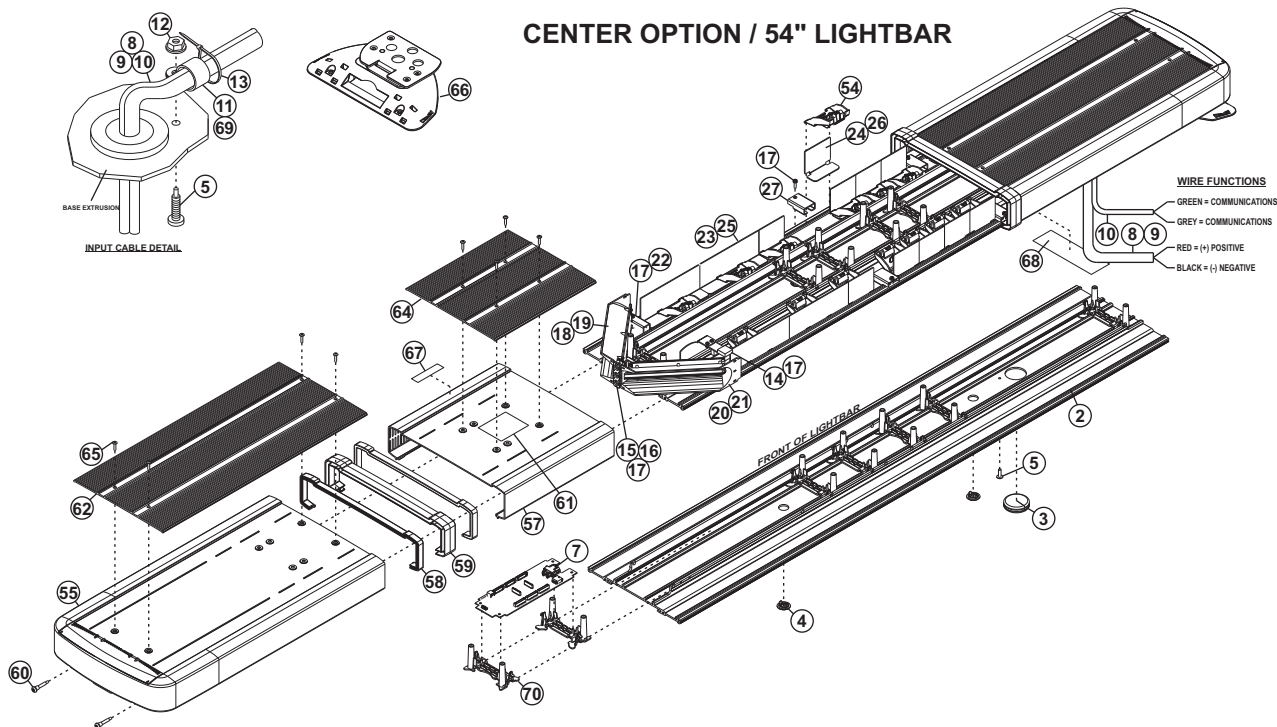
FULL TRIO DIRECTIONAL (84)

QTY	QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
		*		01-0688564-__	LIBERTY II TRIO LIGHTBAR, 44"
	*			01-0688564-__	LIBERTY II TRIO LIGHTBAR, 48"
*				01-0688564-__	LIBERTY II TRIO LIGHTBAR, 54"
-	-	1	1	11-387277-039	BASE, EXTRUDED 39.62" MACHINED LEGACY LTBAR
-	1	-	2	11-387277-044	BASE, EXTRUDED 44.4" MACHINED LEGACY LTBAR
1	-	-	3	11-387385-050	BASE, MACHINED 50.228" LEGACY LIGHTBAR
1	1	1	5	21-11245004-1	GROMMET, SPECIAL TO BE MOLDED 1.562"
1	1	1	6	14-0023347-01	SCREW, 10-24 X .875" TX PHD SWEDGE FORM 1/4" LEAD 5/8" THD
2	2	2	7	21-7263998-00	PLUG, VENT .750 DIA HOLE LIGHTBAR
1	1	1	9	02-016J099-00	PCB PRIMARY I/O WeCanX SMT
1	1	1	11	13-1044111-063	NUT, 10-24 CAD PLATED WHIZ OR STEEL ZINC
1	1	1	12	26-0215001-06	TY WRAP, 6" BLACK
A/R	A/R	A/R	13	01-0247065-00	SUB ASSY, PHOTO CELL WC LIBERTY II
4	4	4	14	07-226275-000	BRACKET, CORNER CLAMP LIBERTY II
2	2	2	15	07-247187-000	BRACKET, END CLAMP NO ALLEY LIBERTY II
12	10	8	16	14-062216-081	SCREW, 6-32 X 1/2 PPHMS SEMS W/IT LOCK WASHER 410 SS
A/R	A/R	A/R	17	01-0247193-30	SUB ASSY, 3LED TIR ALLEY LIGHT LIBERTY II
A/R	A/R	A/R	18	01-0247195-50	SUB ASSY, STOP/TURN, TAIL WC LIBERTY II
A/R	A/R	A/R	19	01-026H100-30	SUB ASSY, SILICONE TAKE-DOWN LIBERTY II
A/R	A/R	A/R	20	01-026H365-30	SUB ASSY, 3LED SHORT SILICONE T-D LIBERTY II
12	12	8	21	07-247303-000	BRACKET, FULL FILLER LIBERTY II
4	-	4	22	07-247304-000	BRACKET, HALF FILLER LIBERTY II
-	-	2	23	07-247154-000	BRACKET, CENTER FILLER LIBERTY II
4	2	-	24	07-223841-000	BRACKET, SPACER LEGACY LTBAR
A/R	A/R	A/R	25	46-0746823-00	HARNESS PHOTOCELL LEGACY LIGHTBAR
16	12	14	26	07-26F382-000	BRACKET, SNAP-IN LT MODULE MT
A/R	A/R	A/R	27	26-0215001-03	TY WRAP, 3" BLACK
2	2	-	28	02-036E774-_0	SUB ASSY, LENS FULL LIBERTY II SERIES
-	-	2	29	02-036E774-_01	SUB ASSY, LENS CUT LIBERTY II SERIES
1	-	-	30	68-196F366-30	LENS, CLEAR OPTIC CUT CENTER 54" LIBERTY II
1	-	-	32	10-0346824-00	LABEL, CENTER DOME REMOVAL INSTRUCTIONS
4	4	4	33	14-104286-16J	SCREW, 10-24 X 1.25" WAX DIP SHOULDER PHIX TRI POINT SS
2	2	-	34	11-26E056-021	COVER, TOP EXTRUDED 21.665" MACHINED 17.625" HOLES LEGACY
-	-	2	35	11-26E056-019	COVER, TOP EXTRUDED 19.275" MACHINED 17.625" HOLES LEGACY
1	-	-	36	11-26F399-000	COVER, TOP EXTRUDED CENTER 54" LIBERTY II LTBAR
4	2	2	38	38-046E119-00	SEAL, LENS DIVIDER LIBERTY II
2	1	1	39	38-046E118-00	DIVIDER, LENS CLEAR LIBERTY II
12	8	8	40	15-105C7K6-148	SCREW, 10 X 7/8" T/XT (T-25) PLASTITE 48-2 SS 18-8 W/INSEAL
2	2	2	41	02-0387331-00	SUB ASSY, LOW PROFILE MTG FOOT
1	1	1	43	10-0322935-00	LABEL, "FRONT" LIGHTBAR ASSYS
1	1	1	44	10-0548209-00	LABEL, WCX LIGHTBAR IDENTIFIER LIBERTY II
A/R	A/R	A/R	45	68-396F577-__	LENS, CORNER FILTER NON OPTIC LIBERTY II
A/R	A/R	A/R	46	01-026J298-30	SUB ASSY, PROFOCUS TAKE-DOWN LIBERTY II
8	6	6	73	07-26J383-000	BRACKET, I/O LIBERTY II
1	1	1	74	26-0115663-10	CABLE CLAMP, 5/8"D, 1/2"W .203" MTG HOLE, BLK
1	1	1	75	02-016J101-00	ASSY, PCB LOW SIDE EXPANSION I/O WeCanX SMT
1	1	1	76	46-0747994-17	CABLE ASSY, INPUT 2/C 8GA, WCX EXPANSION (17")
1	1	1	77	46-0743442-06	COMM. CABLE WCX EXPANSION 2/C 20 GA. 17"
-	1	1	78	46-076J652-01	HARNESS INTERNAL PWR 2.5" WCX EXPANSION
1	-	-	79	46-076J652-02	HARNESS INTERNAL PWR 3.5" WCX EXPANSION
-	1	1	80	46-076J657-00	HARNESS COMMUNICATIONS 2.5" WCX
1	-	-	81	46-076J657-01	HARNESS COMMUNICATIONS 4.5" WCX
A/R	A/R	A/R	82	01-026F993-__	CORNER L-FRONT/R-REAR TRIO LIBERTY II
A/R	A/R	A/R	83	01-026F994-__	CORNER L-REAR/R-FRONT TRIO LIBERTY II
A/R	A/R	A/R	84	01-026F989-__	SUB ASSY, FULL DIRECTIONAL TRIO LIBERTY II
A/R	-	A/R	85	01-0247329-__	SUB ASSY, SHORT DIRECTIONAL TRIO LIBERTY II
2	2	2	86	46-0788553-00	HARNESS "A" TRIO WeCanX LTBAR
4	3	3	87	46-0788553-01	HARNESS "C" TRIO WeCanX LTBAR
2	2	2	88	46-0788553-02	ASSY, HARNESS "D" TRIO WeCanX LTBAR
1					

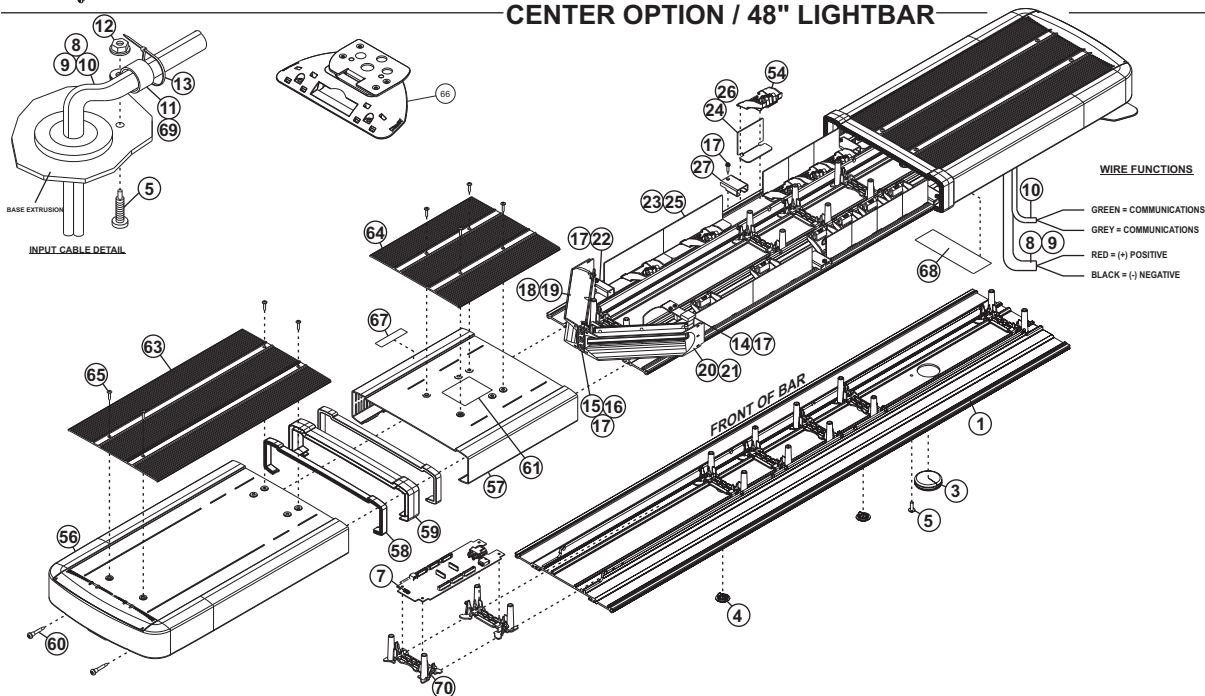
Refer to parts drawings on page 9.

QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
	*		01-0688570-___	48" LIBERTY II CENTER OPTION, WCX
	*		01-0688570-___	SSY, 54" LIBERTY II CENTER OPTION, WCX
-	1	1	11-387277-044	BASE, EXTRUDED 44.4" MACHINED LEGACY LTBAR
1	-	2	11-387385-050	BASE, EXTRUDED 50.228" LEGACY LIGHTBAR
1	1	3	21-11245004-1	GROMMET, SPECIAL TO BE MOLDED 1.562" THERMOPLASTIC
2	2	4	21-7263998-00	PLUG, VENT .750 DIA HOLE LIGHTBAR
1	1	5	14-0023347-01	SCREW, 10-24 X .875" TX PHD SWEDGE FORM 1/4" LEAD 5/8" THD
1	1	7	02-016J099-00	PCB PRIMARY I/O WeCanX SMT
A/R	A/R	8	46-0747027-17	CABLE INPUT 2/C 10 GA 17" LEGACY SOLO
A/R	A/R	9	46-0746800-17	CABLE INPUT 2/C 8 GA 17" LEGACY DUO
1	1	10	46-0743442-02	CABLE 2/C 20 GA 17" STRIP 3"/770904 SCKT
A/R	A/R	11	26-0115037-08	CABLE CLAMP, 1/2"D, 1/2"W .203" MTG HOLE, BLK
1	1	12	13-104111-063	NUT, 10-24 CAD PLATED WHIZ OR STEEL ZINC PLATED
1	1	13	26-0215001-06	TY WRAP, 6" BLACK
A/R	A/R	14	01-0247065-00	SUB ASSY, PHOTO CELL WC LIBERTY II
2	2	15	07-247187-000	BRACKET, END CLAMP NO ALLEY LIBERTY II
OPT	OPT	16	01-0247193-30	SUB ASSY, 3LED TIR ALLEY LIGHT LIBERTY II
12	12	17	14-062216-081	SCREW, 6-32 X 1/2 PPHMS SEMS W/IT LOCK WASHER 410 SS
A/R	A/R	18	01-026F608-**	CORNER L-FRONT/R-REAR SINGLE ROW SOLO
A/R	A/R	19	01-026F637-**	CORNER L-FRONT/R-REAR SINGLE ROW DUO
A/R	A/R	20	01-026F609-**	CORNER L-REAR/R-FRONT SINGLE ROW SOLO
A/R	A/R	21	01-026F638-**	CORNER L-REAR/R-FRONT SINGLE ROW DUO
4	4	22	07-226275-000	BRACKET, CORNER CLAMP LIBERTY II
8	8	23	07-247303-000	BRACKET, FULL FILLER LIBERTY II
12	8	24	07-247304-000	BRACKET, SHORT FILLER LIBERTY II
8	8	25	68-3947136-31	LENS, CLEAR FILTER FULL LINEAR NON OPTIC METALIZE
12	8	26	68-3947100-31	LENS, CLEAR HALF FILTER NON OPTIC METALIZE
4	4	27	07-223841-000	BRACKET, SPACER LEGACY LTBAR
OPT	OPT	28	01-0247106-*0	SUB ASSY, SHORT DIRECTIONAL LIBERTY II SOLO
OPT	OPT	29	01-0247116-*0	SUB ASSY, SHORT DIRECTIONAL LIBERTY II DUO
OPT	OPT	30	01-026F804-*0	SUB ASSY, DUAL LINEAR CENTER OPTION SOLO
OPT	OPT	31	01-026F717-*0	SUB ASSY, DUAL LINEAR CENTER OPTION DUO
OPT	OPT	32	01-026F365-30	SUB ASSY, 3LED SHORT SILICONE T-D LIBERTY II
OPT	OPT	33	07-26F721-000	BRACKET, GTT EMITTER W/T-DS LIBERTY II
OPT	OPT	34	01-026F890-33	SUB ASSY, 3TIR TAKEDOWN W/W CENTER OPT EMITTER
REF	REF	35	01-1317921-01	EMITTER, LED LOW PROFILE GTT MODEL 795H PROGRAMMED
OPT	OPT	36	15-045216-060	SCREW, 4 X 3/8" PFH 82 DEG PLASTITE 48-2 SS 410
OPT	OPT	37	46-0743825-17	CABLE GTT LED EMITTER 17"
OPT	OPT	38	01-026F914-00	SUB ASSY, CENTER STROBE LIBERTY II
OPT	OPT	39	01-026F914-33	SUB ASSY, CENTER STROBE W/T-DS LIBERTY II
OPT	OPT	40	46-0747295-00	ASSY, INPUT CABLE CTR STROBE LIBERTY II
OPT	OPT	41	01-026G129-10	SUB ASSY, LIGHTED SIGN AMBER LIBERTY II
OPT	OPT	42	09-1147450-*0	PANEL, GRAPHIC LIGHTED SIGN LIBERTY II
OPT	OPT	43	14-040116-04V	SCREW, 4-40 X 1/4 P100FH/CSNK 410 SS VIBRA-TITE VC-3
-	1	44	46-0788547-00	HARNESS "A" 48" & UNDER WCX LTBAR
-	2	45	46-0788547-02	HARNESS "B" 48" & UNDER WCX LTBAR
-	2	46	46-0788547-03	HARNESS "C" 48" & UNDER WCX LTBAR
-	1	47	46-0788547-01	HARNESS "D" 48" & UNDER WCX LTBAR
1	-	48	46-0788552-00	HARNESS "A" 54"-60" WCX LTBAR
2	-	49	46-0788552-02	HARNESS "B" 54"-60" WCX LTBAR
2	-	50	46-0788552-03	HARNESS "C" 54"-60" WCX LTBAR
1	-	51	46-0788552-01	HARNESS "D" 54"-60" WCX LTBAR
A/R	A/R	52	46-0746823-00	HARNESS PHOTOCCELL LEGACY LIGHTBAR
A/R	A/R	53	26-0215001-03	TY WRAP, 3" BLACK
20	16	54	07-26F382-000	BRACKET, SNAP-IN LT MODULE MT
2	-	55	02-036E7741*0	SUB ASSY, CUT LENS, LIBERTY II
-	2	56	02-036E7743*0	SUB ASSY, CUT LENS CENTER OPTION, LIBERTY II
1	1	57	68-196E776-30	LENS, CLEAR OPTIC CUT CENTER LIBERTY II
4	4	58	38-046E119-00	SEAL, LENS DIVIDER LIBERTY II
2	2	59	38-046E118-00	DIVIDER, LENS CLEAR LIBERTY II
4	4	60	14-104286-16J	SCREW, 10-24 X 1.25" WAX DIP SHOULDER PHTX TRI POINT SS
1	1	61	10-0346824-00	LABEL, CENTER DOME REMOVAL INSTRUCTIONS
2	-	62	11-26E056-019	COVER, TOP EXTRUDED 19.275" MACHINED LEGACY
-	2	63	11-26F889-000	COVER, TOP EXTRUDED 16.36" CENTER OPTION
1	1	64	11-26E377-009	COVER, TOP EXTRUDED CENTER LEGACY LTBAR
12	12	65	15-105C76-148	SCREW, 10 X 7/8" TXTH (T-25) PLASTITE 48-2 SS 18-8 WINYSEAL
2	2	66	02-0387331-00	SUB ASSY, LOW PROFILE MTG FOOT
1	1	67	10-0322935-00	LABEL, "FRONT" LIGHTBAR ASSYS
1	1	68	10-0548209-00	LABEL, WCX LIGHTBAR IDENTIFIER LIBERTY II
A/R	A/R	69	26-0115663-10	CABLE CLAMP, 5/8"D, 1/2"W .203" MTG HOLE
7	7	70	07-26J383-000	BRACKET, I/O LIBERTY II

CENTER OPTION / 54" LIGHTBAR

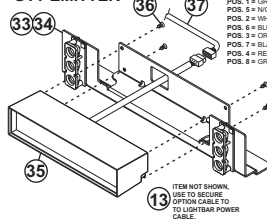


CENTER OPTION / 48" LIGHTBAR



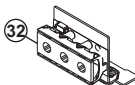
CENTER OPTIONS

GTT EMITTER

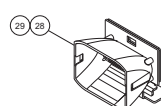


WIRING SCHEMATIC FOR EMITTER
 POS. 1 = GRAY - SERIAL COMMUNICATIONS "B"
 POS. 2 = WHITE - DISABLE INPUT
 POS. 3 = BLUE - SERIAL COMMUNICATIONS "A"
 POS. 4 = ORANGE - RANGE SETTING
 POS. 5 = BLACK - DC GROUND
 POS. 6 = RED - +12VDC
 POS. 8 = GREEN - DC RETURN (INDICATOR LIGHT)

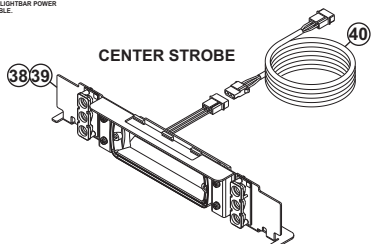
3 LED HALF TD



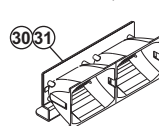
SHORT DIRECTIONAL



CENTER STROBE



DUAL LINEAR, CENTER



LIGHTED SIGN

