

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

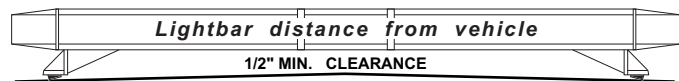
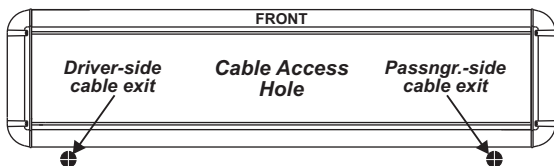
This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained 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!

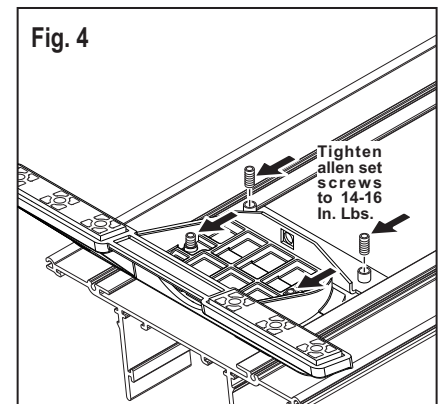
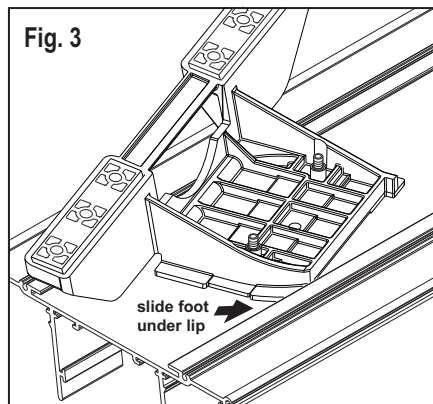
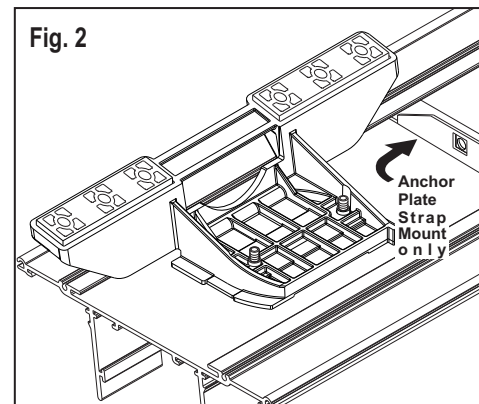
IMPORTANT! The lightbar should be a minimum of 16" from any radio antennas!
Permanent Mounting:

1. Locate the mounting foot and locking plate included with your lightbar. If not already present, install the locking plate onto the mounting foot using the supplied allen set screws (Fig. 1).
2. Flip the lightbar upside-down to expose the bottom of the extrusion. Place the mounting foot into the extrusion and rotate the foot so that the top of the foot swings into position under the lips in the extrusion (Figs. 2, 3 & 4). **NOTE: You do not need the anchor plate shown in Figs. 2 - 4. This is used in strap mounting.**
3. Repeat this procedure for the remaining mounting foot and return the lightbar to its right side-up position.
4. Position the lightbar onto the vehicle roof in the desired mounting location. One often selected location is directly above the B-pillars. This is the strongest part of the roof. Check the light bar cable exit location to be sure that the lightbar is facing the proper direction (Cable exits in rear).
5. Adjust the mounting feet outwards so that they are as close to the edge of the roof as possible (See below). When the mounting feet are properly positioned, lightly tighten the allen head set screws.
6. Turn the lightbar upside down and tighten all of the mounting foot allen head set screws (Fig.4) to 14-16 in. Lbs. With the lightbar upside down, drill 2 holes into the mounting foot (for the mounting bolts) using the holes in the mounting pads as guides, in the location shown in figure 1.
7. Place the lightbar in its final mounting position on the vehicle, mark the mounting hole locations off onto the mounting surface, remove the lightbar and drill the mounting holes. You will need to lower the vehicle headliner (if present) for steps 7 & 8.
8. Place the lightbar back onto the vehicle lined up with the mounting holes and secure the mounting feet to the vehicle using the supplied hardware.



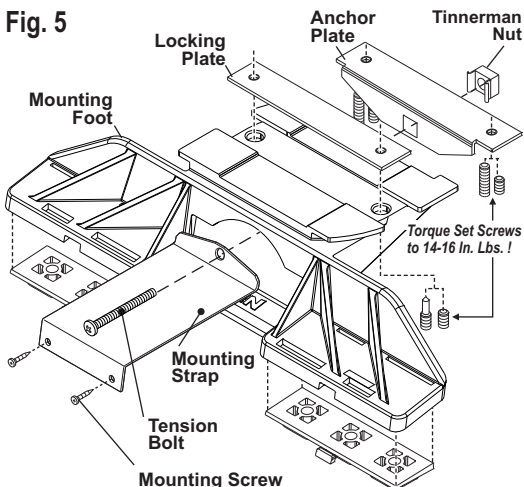
IMPORTANT: For strap mounting, be sure you have the right sized lightbar for your vehicle. The bar should be approximately the same width as the vehicle roof. If too large or small it will not mount properly and may come loose during driving.

NOTE: Unless otherwise specified, the lightbar mounting feet must be sitting as close to the edge of the roof as possible and in full contact with the roof and not be hanging off the edge.



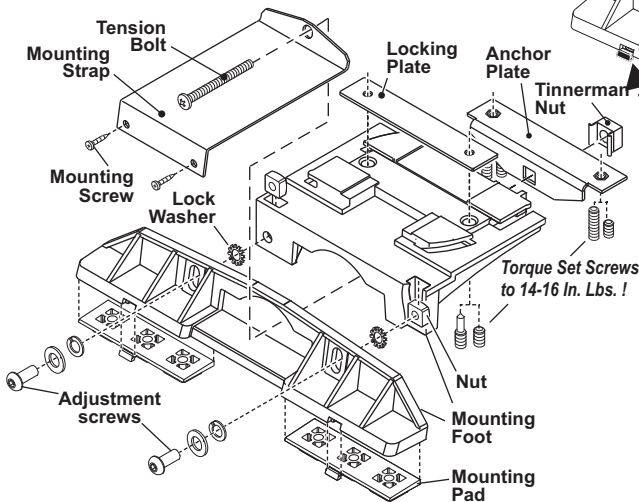
Strap Mounting:

1. Locate the mounting foot, anchor plate and locking plate included with your lightbar. If not already present, loosely install the locking plate onto the mounting foot using the supplied allen set screws (Fig. 5).
2. Flip the lightbar upside-down and Install an anchor plate onto the extrusion, then place a mounting foot onto the extrusion (Fig. 2). Rotate the foot 90° counter-clockwise (Fig. 3) so that both sides slide under the lip in the extrusion.
3. Repeat this procedure for the remaining mounting foot and anchor plate, and return the lightbar to its right side-up position.
4. Position the lightbar on the vehicle roof and adjust the two mounting feet outwards so that the mounting pads are resting near the edge of the roof (See notes above). When properly positioned, tighten the allen screws to 14-16 in. Lbs. Also slide the anchor plates up to the mounting feet and tighten the allen screws securing the anchor plates.
5. Insert the mounting strap onto the mounting foot (Fig. 5). Be sure that the strap fits flush against the vehicle where it will be secured. Insert the tension bolt through the mounting strap and into the anchor plate. Tighten slightly with a long-shafted, Phillips screwdriver. Repeat procedure for other side of vehicle.
6. Use the two holes in the end of the strap as a template to drill the pilot holes for the sheet metal screws through the strap and into the vehicle. Repeat for other side of the vehicle.
7. Screw the sheet metal screws into the holes you drilled in step 6 and tighten firmly. Repeat for other side of vehicle then firmly tighten both tension bolts to secure lightbar.



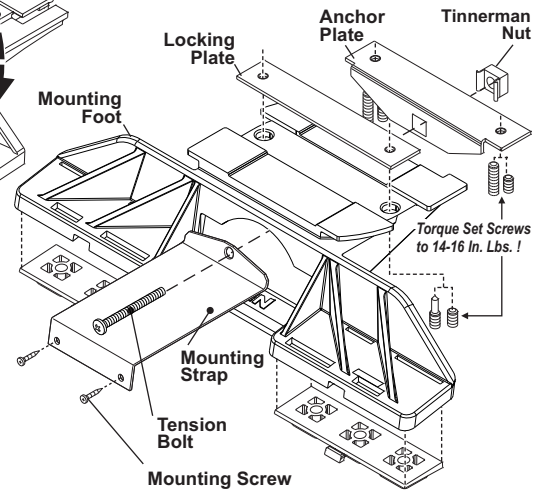
Adjustable Mounting Foot / Model MKAJ

On this model you may loosen the screws on the rear of the foot and adjust the angle of the lightbar. This is used if the angle of the roof is not level with the road. **IMPORTANT:** To adjust the leveling screws you must use a torque wrench set at 35 to 40 ft. lbs



◀ For Reference Only ▶

Standard Mounting Foot / Model MKEZ



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!

Routing your 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.

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. Use a round file to smooth and de-burr the edges of the hole.
4. Install a 1" grommet (user supplied) into the cable access hole.
5. 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.

Route the cable(s) one at a time to their respective destinations (power cable to vehicle battery; control cable to customer switch panel). It is left to the installation technician's discretion to select a path for these cables that will both protect the cables from possible damage and not interfere with the operation of any other vehicle components or equipment. Refer to the instructions included with your switches for switch wiring information.

IMPORTANT AIR BAG WARNING! Do not install this product or route any wires in the air bag deployment zone of your vehicle. Equipment mounted or located in air bag deployment zones 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 to learn the air bag deployment zones for the vehicle. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.

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. Route the cable along the factory wiring harness towards the battery. Install a 40 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.

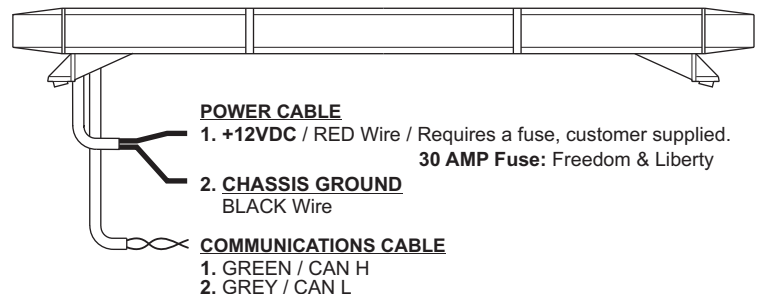
Connecting the Communication Cable:

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

Troubleshooting:

If your lightbar is not functioning properly, check for the following:

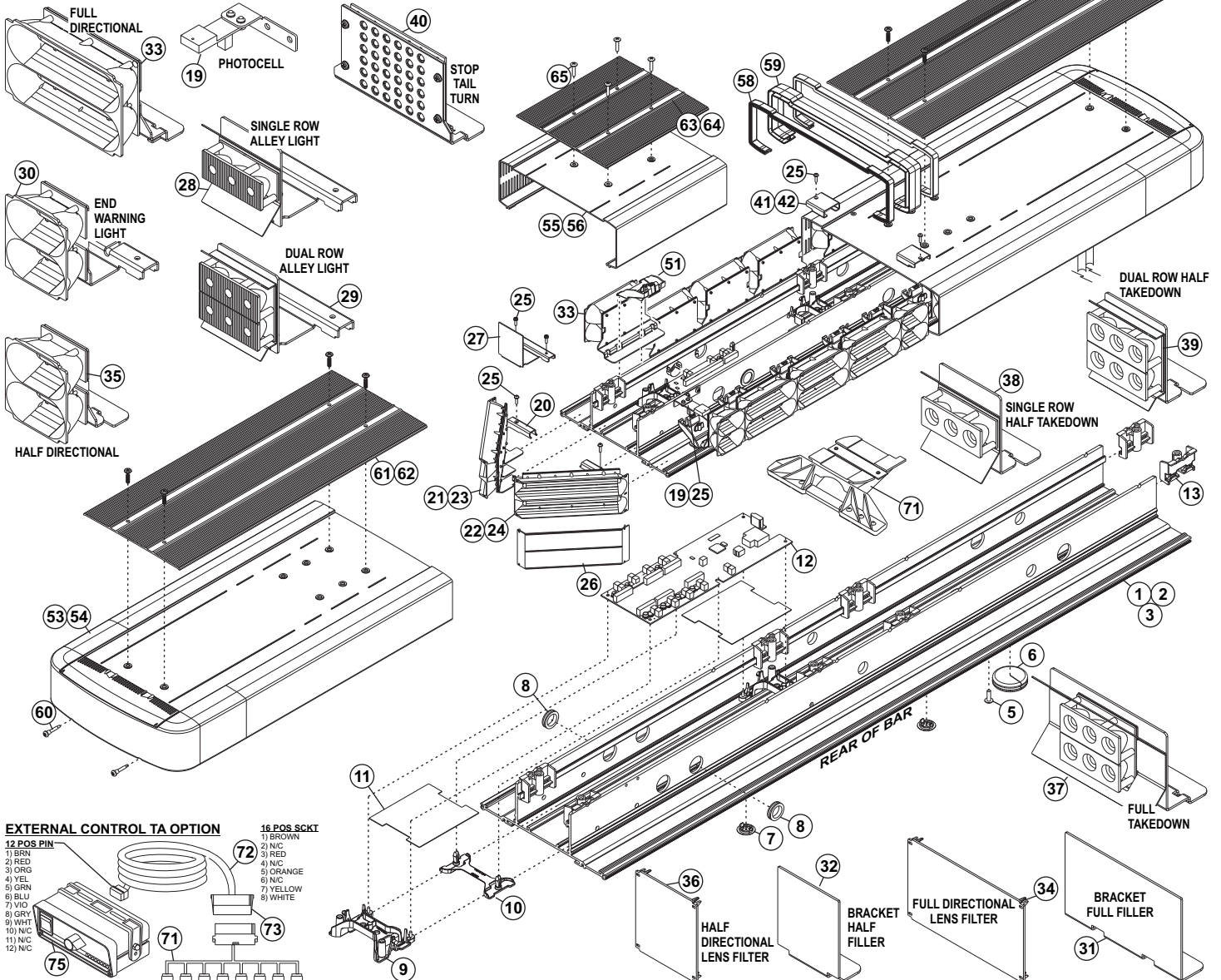
- The positive wire (RED) is properly connected to the battery, by way of the user supplied fuse block.
- A working fuse of the correct amperage is installed in the fuse block (See illustration above, for the specific fuse rating for your lightbar).
- The ground wire (BLACK) is properly connected to 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.



QTY	QTY	QTY	QTY	ITEM	PART NUMBER	DESCRIPTION	A/R	A/R	A/R	A/R	26	68-396F390-0	LENS, CORNER FILTER NON OPTIC FREEDOM IV
		*	*		01-0687809-__	FREEDOM IV WC LIGHTBAR, 70"	2	2	2	2	27	07-26F833-000	BRACKET, FILLER ALLEY POSITION, FREEDOM IV
					01-0687809-__	FREEDOM IV WC LIGHTBAR, 76"	A/R	A/R	A/R	A/R	28	01-0247247-30	SUB ASSY, 3LED TIR ALLEY LT FREEDOM IV
	*				01-0687809-__	FREEDOM IV WC LIGHTBAR, 81"	A/R	A/R	A/R	A/R	29	01-026F855-30	SUB ASSY, 6LED TIR ALLEY LT FREEDOM IV
*					01-0687809-__	FREEDOM IV WC LIGHTBAR, 98"	A/R	A/R	A/R	A/R	30	01-026F730-__	SUB ASSY, HALF END LINEAR FREEDOM IV
-	-	-	1	1	11-387702-065	BASE, EXTRUDED 65.644" MACHINED 70" FREEDOM	34	28	26	24	31	07-247177-000	BRACKET, FULL FILLER FREEDOM IV
-	-	1	-	2	11-387703-071	BASE, EXTRUDED 71.468" MACHINED 76" FREEDOM	-	-	-	-	32	07-247178-000	BRACKET, HALF FILLER FREEDOM IV
-	1	-	-	3	11-387721-076	BASE, EXTRUDED 76.268" MACHINED 81" FREEDOM	A/R	A/R	A/R	A/R	33	01-026F728-__	SUB ASSY, FULL LINEAR FREEDOM IV
1	1	1	1	5	14-0023347-01	SCREW, 10-24 X .875" TX PHD SWEDGE FORM 1/4" LEAD 5/8" THD	A/R	A/R	A/R	A/R	34	68-396F391-__	LENS, FULL LINEAR FILTER NON OPTIC FREEDOM IV
1	1	1	1	6	21-11245004-1	GROMMET, SPECIAL TO BE MOLDED 1.562"	A/R	A/R	A/R	A/R	35	01-026F729-__	SUB ASSY, HALF LINEAR FREEDOM IV
2	2	2	2	7	21-7263998-00	PLUG, VENT .750 DIA HOLE LIGHTBAR	A/R	A/R	A/R	A/R	36	68-3947120-__	LENS, HALF LINEAR FILTER NON OPTIC FREEDOM IV
8	8	8	8	8	21-11263204-0	GROMMET, 1" SLIM LINE	A/R	A/R	A/R	A/R	37	01-026F778-30	SUB ASSY, 6LED TIR FULL T-D LT FREEDOM IV
2	2	2	2	9	07-26D863-000	BRACKET, BULKHEAD LENS MOUNT LEGACY LIGHTBAR	A/R	A/R	A/R	A/R	38	01-0247246-30	SUB ASSY, 3LED TIR HALF T-D LT FREEDOM IV
1	1	1	1	10	07-26D865-000	BRACKET, I/O ANCHOR LEGACY LIGHTBAR	A/R	A/R	A/R	A/R	39	01-026F857-30	SUB ASSY, 6 TIR HALF TAKE DOWN, FREEDOM IV
2	2	2	2	11	38-0247191-00	INSULATOR, I/O EXTRUSION LIBERTY II	A/R	A/R	A/R	A/R	40	01-026F961-50	SUB ASSY, STOP/TURN, TAIL WC FREEDOM IV
1	1	1	1	12	02-0187709-00	PCB WC I/O BOARD LIBERTY II	12	8	4	6	41	07-226279-000	BRACKET, FILLER 1.400" FREEDOM IV
26	20	18	16	13	07-26F288-000	BRACKET, LENS MOUNT FREEDOM REDESIGN	-	-	4	-	42	07-223841-000	BRACKET, FILLER LEGACY LTBAR
1	1	1	1	14	46-0746800-25	CABLE INPUT 2/C 8 GA 25" LEGACY LIGHTBAR	1	1	1	1	43	46-0787786-00	HARNESS "A" ALL LENGTHS FREEDOM IV
1	1	1	1	15	46-0743442-03	CABLE 2/C 20 GA 25" STRIP 1.75/770904 SCKT	2	-	-	-	44	46-0787969-02	HARNESS "B" 92" TO 98" FREEDOM IV
1	1	1	1	16	26-0115663-10	CABLE CLAMP, 5/8"D, 1/2"W .203" MTG HOLE, BLACK	2	-	-	-	45	46-0787969-04	HARNESS "C" 92" TO 98" FREEDOM IV
1	1	1	1	17	13-104111-063	NUT, 10-24 CAD PLATED WHIZ OR STEEL ZINC PLATED	2	-	-	-	46	46-0787969-03	HARNESS "D" 92" TO 98" FREEDOM IV
1	1	1	1	18	26-0215001-06	TY WRAP, 6" BLACK	1	-	-	-	47	46-0787969-01	HARNESS "E" 92" TO 98" FREEDOM IV
A/R	A/R	A/R	A/R	19	01-0247232-00	SUB ASSY, PHOTOCELL FREEDOM IV WC	1	-	-	-	48	46-0787969-05	HARNESS "F" 92" TO 98" FREEDOM IV
4	4	4	4	20	19-147132-000	RETAINER, CORNER LINEAR ASSY FREEDOM IV	A/R	A/R	A/R	A/R	49	46-0747010-00	HARNESS CORNER JUMPER LEGACY
2	2	2	2	21	01-026F826-__	CORNER L-FRONT/R-REAR 12LED FREEDOM IV	A/R	A/R	A/R	A/R	50	46-0743760-00	HARNESS PHOTOCELL 12" FREEDOM
2	2	2	2	22	01-026F827-__	CORNER R-FRONT/L-REAR 12LED FREEDOM IV	34	28	26	24	51	07-26F382-000	BRACKET, SNAP-IN LT MODULE MT
A/R	A/R	A/R	A/R	23	01-026F758-__	CORNER L-FRONT/R-REAR 18LED FREEDOM IV							
A/R	A/R	A/R	A/R	24	01-026F759-__	CORNER R-FRONT/L-REAR 18LED FREEDOM IV							
20	16	16	14	25	14-062216-081	SCREW, 6-32 X 1/2 PPHMS SEMS W/IT LOCK WASHER							

Parts list continued on next page

NOTE: Not all parts in parts list are shown in drawing.



Parts list continued from previous page

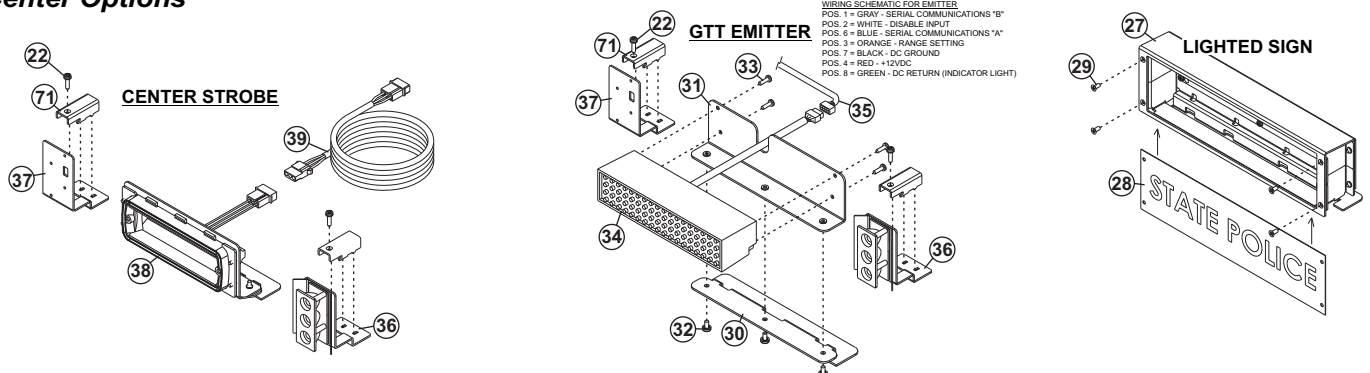
QTY	QTY	QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
			*		01-0687809-__	FREEDOM IV WC LIGHTBAR, 70"
			*		01-0687809-__	FREEDOM IV WC LIGHTBAR, 76"
			*		01-0687809-__	FREEDOM IV WC LIGHTBAR, 81"
			*		01-0687809-__	FREEDOM IV WC LIGHTBAR, 98"
A/R	A/R	A/R	A/R	52	26-0215001-03	TY WRAP, 3" BLACK
2	2	2	2	53	02-036F779-30	SUB ASSY, LENS FULL CLEAR GREY FREEDOM IV
-	-	-	-	54	02-036F779130	SUB ASSY, LENS CUT CLEAR GREY FREEDOM IV
1	-	1	-	55	68-196F612-30	LENS, CLEAR OPTIC 1-LT CENTER FREEDOM IV
4	3	2	2	56	68-196F602-30	LENS, CLEAR OPTIC 2-LT CENTER FREEDOM IV
1	1	1	1	57	10-0346824-00	LABEL, CENTER DOME REMOVAL INSTRUCTIONS
12	8	8	6	58	38-046F226-00	SEAL, LENS DIVIDER FREEDOM IV
6	4	4	3	59	38-046F227-00	DIVIDER, LENS FREEDOM IV
4	4	4	4	60	14-104286-16J	SCREW, 10-24 X 1.25" WAX DIP SHOULDER PHTX TRI POINT SS
2	2	2	2	61	11-26E056-021	COVER, TOP EXTRUDED 21.665" MACHINED LEGACY
-	-	-	-	62	11-26E056-119	COVER, TOP EXTRUDED 19.275", 15.611" HOLES FREEDOM
1	-	1	-	63	11-26F554-004	COVER, TOP 4.758" MACHINED SINGLE CTR FREEDOM IV
4	3	2	2	64	11-26E377-009	COVER, TOP EXTRUDED CENTER LEGACY LTBAR
26	20	18	16	65	15-105C76-148	SCREW, 10 X 7/8 T-25 TORX TRUSS HD PLAST-LOC SS WINYSEAL

2	2	2	2	66	02-0342982-00	SUB ASSY, MTG FOOT AND PADS ROT.INSTALL
1	1	1	1	67	10-0322935-00	LABEL, "FRONT" LIGHTBAR ASSYS
1	1	1	1	68	10-0526294-00	LABEL, PN/MN/SN FREEDOM IV
1	1	1	1	69	10-0323905-01	LABEL, PRE-PRODUCTION
1	1	1	1	70	10-0526295-00	LABEL, SERIAL NUMBER, FREEDOM IV SERIES
A/R	A/R	A/R	A/R	71	46-0787710-00	ASSY, HARNESS EXTERNAL TA CTRL LIBERTY II
A/R	A/R	A/R	A/R	72	46-0768260-00	INTERCONNECT CABLE, 17' 61117-1 SOCKTS/61118-1 PINS
A/R	A/R	A/R	A/R	73	39-0416323-04	HOUSING, 16 POS SCKT COMM MATE-N-LOK
A/R	A/R	A/R	A/R	74	39-0412014-14	HOUSING, 12 POS PIN PANEL MT COMM MATE-N-LOK
A/R	A/R	A/R	A/R	75	01-0688086-00	FINAL TACTL5 CONTROL HD
A/R	A/R	A/R	A/R	76	14-08228C-06D	SCREW, 8-32 X 3/8" PAN TORX HD ROLOK SS BLACK OXIDE
1	1	1	1	77	01-046E868-00	KIT, UNIVERSAL CONTROL POINT WECAN
1	-	-	-	78	11-387931-092	BASE, EXTRUDED 92.716" MACHINED 97" FREEDOM
-	2	2	2	79	46-0787854-02	HARNESS "B" 72" TO 83" FREEDOM IV
-	2	2	2	80	46-0787854-04	HARNESS "C" 72" TO 83" FREEDOM IV
-	2	2	2	81	46-0787854-03	HARNESS "D" 72" TO 83" FREEDOM IV
-	1	1	1	82	46-0787854-01	HARNESS "E" 72" TO 83" FREEDOM IV
-	1	1	1	83	46-0787854-05	HARNESS "F" 72" TO 83" FREEDOM IV

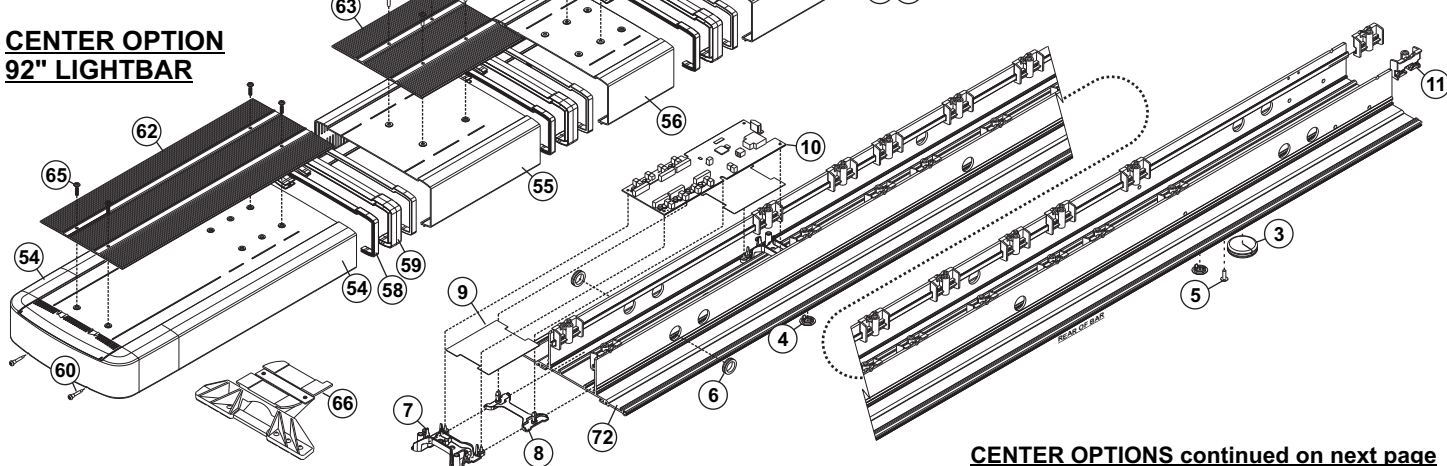
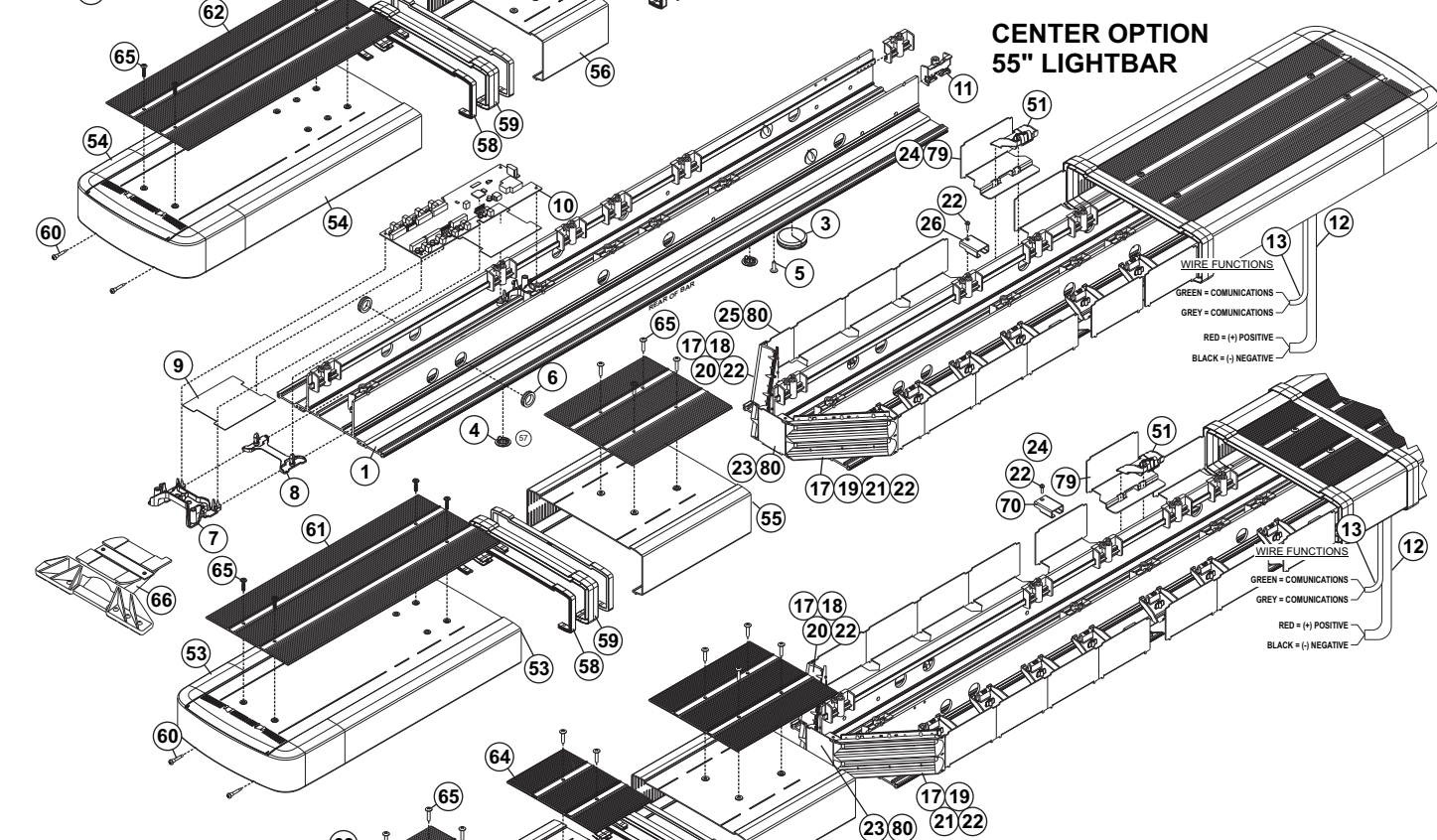
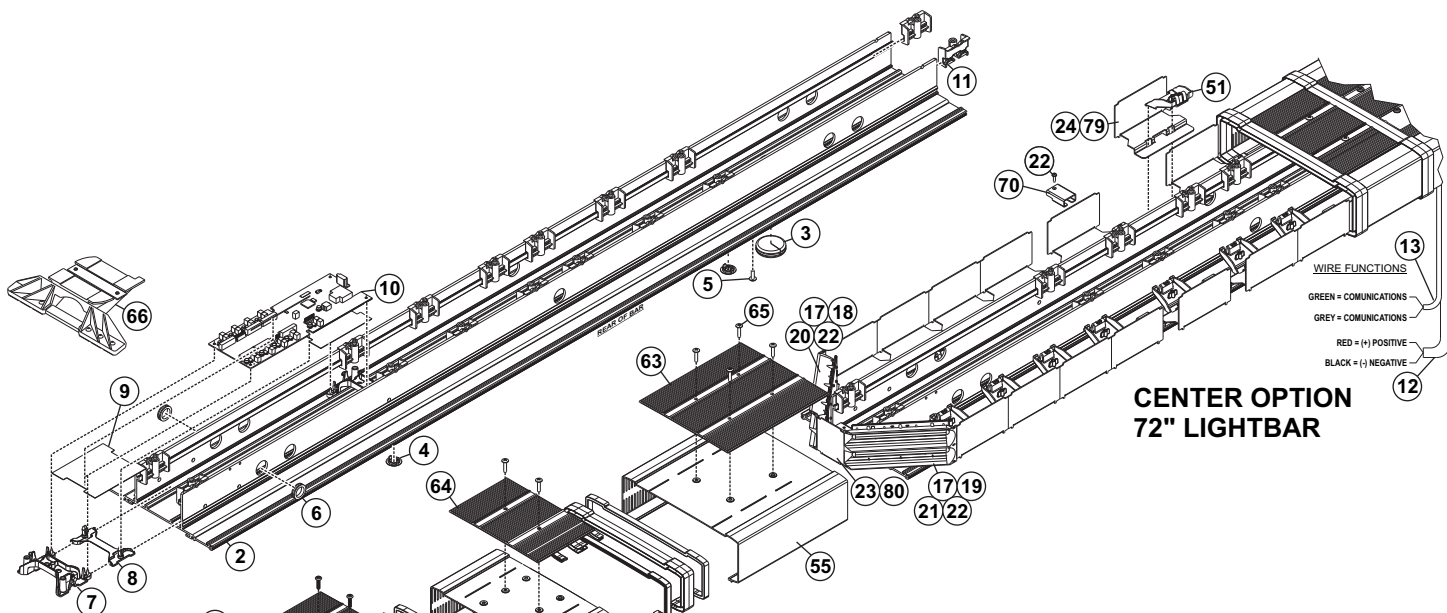
QTY	QTY	QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
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			*		01-0687809-__	FREEDOM IV WC LIGHTBAR, 49"
			*		01-0687809-__	FREEDOM IV WC LIGHTBAR, 55"
			*		01-0687809-__	FREEDOM IV WC LIGHTBAR, 60"
-	-	-	1	1	11-387698-039	BASE, EXTRUDED 39.620" MACHINED 44" FREEDOM
-	-	1	-	2	11-387699-044	BASE, EXTRUDED 44.400" MACHINED 49" FREEDOM
-	1	-	-	3	11-387700-050	BASE, EXTRUDED 50.228" MACHINED 55" FREEDOM
1	-	-	-	4	11-387701-055	BASE, EXTRUDED 55.020" MACHINED 60" FREEDOM
1	1	1	1	5	14-0023347-01	SCREW, 10-24 X .875" TX PHD SWEDGE FORM 1/4" LEAD 5/8" THD
1	1	1	1	6	21-11245004-1	GROMMET, SPECIAL TO BE MOLDED 1.562"
2	2	2	2	7	21-7263998-00	PLUG, VENT .750 DIA HOLE LIGHTBAR
8	6	6	6	8	21-11263204-0	GROMMET, 1" SLIM LINE
2	2	2	2	9	07-26D863-000	BRACKET, BULKHEAD LENS MOUNT LEGACY LIGHTBAR
1	1	1	1	10	07-26D865-000	BRACKET, I/O ANCHOR LEGACY LIGHTBAR
2	2	2	2	11	38-0247191-00	INSULATOR, I/O EXTRUSION LIBERTY II
1	1	1	1	12	02-0187709-00	PCB W/0 BOARD LIBERTY II
12	10	8	8	13	07-26F288-000	BRACKET, LENS MOUNT FREEDOM REDESIGN
1	1	1	1	14	46-0746800-17	CABLE INPUT 2/C 8 GA 17' LEGACY LIGHTBAR
1	1	1	1	15	46-0743442-02	CABLE 2/C 20 GA 17' STRIP 1.75/770904 SCKT
1	1	1	1	16	26-0115663-10	CABLE CLAMP, 5/8"D, 1/2"W .203" MTG HOLE, BLACK
1	1	1	1	17	13-104111-063	NUT, 10-24 CAD PLATED WHIZ OR STEEL ZINC PLATED
1	1	1	1	18	26-0215001-06	TY WRAP, 6" BLACK
A/R	A/R	A/R	A/R	19	01-0247232-00	SUB ASSY, PHOTOCCELL FREEDOM IV
4	4	4	4	20	19-147132-000	RETAINER, CORNER LINEAR ASSY FREEDOM IV
2	2	2	2	21	01-026F826-00	CORNER L-FRONT/R-REAR 12LED FREEDOM IV
2	2	2	2	22	01-026F827-00	CORNER R-FRONT/L-REAR 12LED FREEDOM IV
A/R	A/R	A/R	A/R	23	01-026F758-00	CORNER L-FRONT/R-REAR 18LED FREEDOM IV
A/R	A/R	A/R	A/R	24	01-026F759-00	CORNER R-FRONT/L-REAR 18LED FREEDOM IV
12	12	10	10	25	14-062216-081	SCREW, 6-32 X 1/2 PPHMS SEMS W/IT LOCK WASHER
A/R	A/R	A/R	A/R	26	68-396F390-00	LENS, CORNER FILTER NON OPTIC FREEDOM IV
2	2	2	2	27	07-26F833-000	BRACKET, FILLER ALLEY POSITION, FREEDOM IV
A/R	A/R	A/R	A/R	28	01-0247247-30	SUB ASSY, 3LED TIR ALLEY LT FREEDOM IV
A/R	A/R	A/R	A/R	29	01-026F855-30	SUB ASSY, 6LED TIR ALLEY LT FREEDOM IV
A/R	A/R	A/R	A/R	30	01-026F730-00	SUB ASSY, HALF END LINEAR FREEDOM IV
20	18	16	12	31	07-247177-000	BRACKET, FULL FILLER FREEDOM IV
-	-	-	4	32	07-247178-000	BRACKET, HALF FILLER FREEDOM IV
A/R	A/R	A/R	A/R	33	01-026F728-00	SUB ASSY, FULL LINEAR FREEDOM IV
A/R	A/R	A/R	A/R	34	68-396F391-00	LENS, FULL LINEAR FILTER NON OPTIC FREEDOM IV
A/R	A/R	A/R	A/R	35	01-026F729-00	SUB ASSY, HALF LINEAR FREEDOM IV
A/R	A/R	A/R	A/R	36	68-3947120-00	LENS, HALF LINEAR FILTER NON OPTIC FREEDOM IV

A/R	A/R	A/R	A/R	37	01-026F778-30	SUB ASSY, 6LED TIR FULL T-D LT FREEDOM IV
A/R	A/R	A/R	A/R	38	01-0247246-30	SUB ASSY, 3LED TIR HALF T-D LT FREEDOM IV
A/R	A/R	A/R	A/R	39	01-026F857-30	SUB ASSY, 6 TIR HALF TAKE DOWN, FREEDOM IV
A/R	A/R	A/R	A/R	40	01-026F961-50	SUB ASSY, STOP/TURN, TAIL WC FREEDOM IV
4	-	2	-	41	07-226279-000	BRACKET, FILLER 1.400" FREEDOM IV
-	4	-	2	42	07-223841-000	BRACKET, FILLER LEGACY LTBAR
1	1	1	1	43	46-0787786-00	HARNESS "A" ALL LENGTHS FREEDOM IV
2	2	2	2	44	46-0787786-02	HARNESS "B" UP TO 60" FREEDOM IV
2	2	2	2	45	46-0787786-04	HARNESS "C" UP TO 60" FREEDOM IV
2	2	2	2	46	46-0787786-03	HARNESS "D" UP TO 60" FREEDOM IV
1	1	1	1	47	46-0787786-01	HARNESS "E" UP TO 60" FREEDOM IV
1	1	1	1	48	46-0787786-05	HARNESS "F" UP TO 60" FREEDOM IV
A/R	A/R	-	-	49	46-0747010-00	HARNESS CORNER JUMPER LEGACY
A/R	A/R	A/R	A/R	50	46-0743760-00	HARNESS PHOTOCCELL 12" FREEDOM
20	18	16	16	51	07-26F382-000	BRACKET, SNAP-IN LT MODULE MT
A/R	A/R	A/R	A/R	52	26-0215001-03	TY WRAP, 3" BLACK
2	2	2	2	53	02-036F779-30	SUB ASSY, LENS FULL CLEAR GREY FREEDOM IV
-	-	-	2	54	02-036F779130	SUB ASSY, LENS CUT CLEAR GREY FREEDOM IV
-	1	-	-	55	68-196F612-30	LENS, CLEAR OPTIC 1-LT CENTER FREEDOM IV
1	-	-	-	56	68-196F602-30	LENS, CLEAR OPTIC 2-LT CENTER FREEDOM IV
1	1	-	-	57	10-0346824-00	LABEL, CENTER DOME REMOVAL INSTRUCTIONS
4	4	2	2	58	38-046F226-00	SEAL, LENS DIVIDER FREEDOM IV
2	2	1	1	59	38-046F227-00	DIVIDER, LENS FREEDOM IV
4	4	4	4	60	14-104286-16J	SCREW, 10-24 X 1.25" WAX DIP SHOULDER PHTX TRI POINT SS
2	2	2	2	61	11-26E056-021	COVER, TOP EXTRUDED 21.665" MACHINED LEGACY
-	-	-	2	62	11-26E056-119	COVER, TOP EXTRUDED 19.275", 15.611" HOLES FREEDOM
-	1	-	-	63	11-26F554-004	COVER, TOP 4.758" MACHINED SINGLE CTR FREEDOM IV
1	-	-	-	64	11-26E377-009	COVER, TOP EXTRUDED CENTER LEGACY LTBAR
12	12	8	8	65	15-105C76-148	SCREW, 10 X 7/8 T-25 TORX TRUSS HD PLAST-LOC SS WINYSEAL
2	2	2	2	66	02-0342982-00	SUB ASSY, MTG FOOT AND PADS ROT.INSTALL
1	1	1	1	67	10-0322935-00	LABEL, "FRONT" LIGHTBAR ASSYS
1	1	1	1	68	10-0526294-00	LABEL, PN/MN/SN FREEDOM IV
1	1	1	1	70	10-0526295-00	LABEL, SERIAL NUMBER, FREEDOM IV SERIES
A/R	A/R	A/R	A/R	71	46-0787710-00	HARNESS EXTERNAL TA CTRL LIBERTY II
A/R	A/R	A/R	A/R	72	46-0768260-00	INTERCONNECT CABLE, 17' 61117-1 SOCKTS/61118-1 PINS
A/R	A/R	A/R	A/R	73	39-0416323-04	HOUSING, 16 POS SCKT COMM MATE-N-LOK
A/R	A/R	A/R	A/R	74	39-0412014-14	HOUSING, 12 POS PIN PANEL MT COMM MATE-N-LOK
A/R	A/R	A/R	A/R	75	01-0688086-00	ASSY, FINAL TACTL5 CONTROL HD
A/R	A/R	A/R	A/R	76	14-08228C-06D	SCREW, 8-32 X 3/8" PAN TORX HD ROLOK SS BLACK OXIDE
1	1	1	1	77	01-046E868-00	KIT, UNIVERSAL CONTROL POINT WECAN

Center Options



Center Options drawings continued on next page



CENTER OPTIONS continued on next page

QTY	QTY	QTY	ITEM	PART NUMBER	DESCRIPTION	OPT	OPT	OPT	39	46-0747295-00	INPUT CABLE CTR STROBE LIBERTY II Available for Center
	*			01-0688004-__	55" FREEDOM IV CENTER OPTION, WC	1	1	1	40	46-0787786-00	HARNESS "A" ALL LENGTHS FREEDOM IV
	*			01-0688004-__	72" FREEDOM IV CENTER OPTION, WC	-	-	2	41	46-0787786-02	HARNESS "B" UP TO 60" FREEDOM IV
*				01-0688004-__	92" FREEDOM IV CENTER OPTION, WC	-	-	2	42	46-0787786-04	HARNESS "C" UP TO 60" FREEDOM IV
-	-	1	1	11-387971-050	BASE, EXTRUDED MACHINED CENTER OPTION 55" FREEDOM IV	-	-	2	43	46-0787786-03	HARNESS "D" UP TO 60" FREEDOM IV
-	1	-	2	11-387986-066	BASE, EXTRUDED MACHINED 71.5" CTR SECTION FREEDOM IV	-	-	1	44	46-0787786-01	HARNESS "E" UP TO 60" FREEDOM IV
1	1	1	3	21-11245004-1	GROMMET, SPECIAL TO BE MOLDED 1.562"	-	-	1	45	46-0787786-05	HARNESS "F" UP TO 60" FREEDOM IV
2	2	2	4	21-7263998-00	PLUG, VENT .750 DIA HOLE LIGHTBAR	-	2	-	46	46-0787854-02	HARNESS "B" 72" TO 83" FREEDOM IV
1	1	1	5	14-0023347-01	SCREW, 10-24 X .875" TX PHD 1/4" LEAD 5/8" THD	-	2	-	47	46-0787854-04	HARNESS "C" 72" TO 83" FREEDOM IV
8	6	6	6	21-11263204-0	GROMMET, 1" SLIM LINE	-	2	-	48	46-0787854-03	HARNESS "D" 72" TO 83" FREEDOM IV
2	2	2	7	07-26D863-000	BRACKET, BULKHEAD LENS MOUNT LEGACY LIGHTBAR	-	1	-	49	46-0787854-01	HARNESS "E" 72" TO 83" FREEDOM IV
1	1	1	8	07-26D865-000	BRACKET, I/O ANCHOR LEGACY LIGHTBAR	-	1	-	50	46-0787854-05	HARNESS "F" 72" TO 83" FREEDOM IV
2	2	2	9	38-0247191-00	INSULATOR, I/O EXTRUSION LIBERTY II	32	24	20	51	07-26F382-000	BRACKET, SNAP-IN LT MODULE MT FREEDOM REDESIGN
1	1	1	10	02-0187709-00	PCB WC I/O BOARD LIBERTY II	A/R	A/R	A/R	52	26-0215001-03	TY WRAP, 3" BLACK
24	16	12	11	07-26F288-000	BRACKET, LENS MOUNT FREEDOM IV	-	-	2	53	02-036F779130	SUB ASSY, LENS CUT CLEAR GREY FREEDOM IV
1	1	1	12	46-0746800-__	CABLE INPUT 2/C 8 GA LEGACY LIGHTBAR	2	2	-	54	02-036F779-30	SUB ASSY, LENS FULL CLEAR GREY FREEDOM IV
1	1	1	13	46-0743442-__	ASSY, CABLE 2/C 20 GA STRIP 1.75"/770904 SCKT	3	1	1	55	68-196F602-30	LENS, CLEAR OPTIC 2-LT CENTER FREEDOM IV
1	1	1	14	26-0115663-10	CABLE CLAMP, 5/8"D, 1/2"W .203" MTG HOLE, BLACK	2	2	-	56	68-196F612-30	LENS, CLEAR OPTIC 1-LT CENTER FREEDOM IV
1	1	1	15	13-104111-063	NUT, 10-24 CAD PLATED WHIZ OR STEEL ZINC PLATED	1	1	1	57	10-0346824-00	LABEL, CENTER DOME REMOVAL INSTRUCTIONS
1	1	1	16	26-0215001-06	TY WRAP, 6" BLACK	12	8	4	58	38-046F226-00	SEAL, LENS DIVIDER FREEDOM IV
4	4	4	17	19-147132-00	RETAINER, CORNER LINEAR ASSY FREEDOM IV	6	4	2	59	38-046F227-00	DIVIDER, LENS FREEDOM IV
2	2	2	18	01-026F826-__	CORNER L-FRONT/R-REAR 12LED FREEDOM IV	4	4	4	60	14-104286-16J	SCREW, 10-24 X 1.25" WAX DIP SHOULDER PHTX TRI POINT SS
2	2	2	19	01-026F827-__	CORNER R-FRONT/L-REAR 12LED FREEDOM IV	-	-	2	61	11-26E056-119	COVER, TOP EXTRUDED 19.275", 15.611" HOLES FREEDOM
A/R	A/R	A/R	20	01-026F758-__	CORNER L-FRONT/R-REAR 18LED FREEDOM IV	2	2	-	62	11-26E056-021	COVER, TOP EXTRUDED 21.665", 17.625" HOLES LEGACY
A/R	A/R	A/R	21	01-026F759-__	CORNER R-FRONT/L-REAR 18LED FREEDOM IV	3	1	1	63	11-26E377-009	COVER, TOP EXTRUDED CENTER LEGACY LTBAR
20	16	12	22	14-062216-081	SCREW, 6-32 X 1/2 PPHMS SEMS W/IT LOCK WASHER 410 SS	2	2	-	64	11-26F554-004	COVER, TOP 4.758" SINGLE CTR FREEDOM IV
2	2	2	23	07-26F833-000	BRACKET, FILLER ALLEY POSITION FREEDOM IV	24	16	12	65	15-105C76-148	SCREW, 10 X 7/8 T-25 TORX TRUSS HD PLAST-LOC SS W/INSEAL
32	24	16	24	07-247177-000	BRACKET, FULL FILLER FREEDOM IV	1	1	1	66	02-0342982-00	SUB ASSY, MTG FOOT AND PADS ROT.INSTALL
-	-	4	25	07-247178-000	BRACKET, HALF FILLER FREEDOM IV	1	1	1	67	10-0322935-00	LABEL, "FRONT" LIGHTBAR ASSYS
-	-	4	26	07-223841-000	BRACKET, SPACER LEGACY LTBAR	1	1	1	68	10-0526294-00	LABEL, PN/MN/SN FREEDOM IV
OPT	OPT	OPT	27	01-026G340-10	SUB ASSY, LIGHTED SIGN, FREEDOM IV	1	1	1	69	10-0526295-00	LABEL, SERIAL NUMBER FREEDOM IV
OPT	OPT	OPT	28	09-1187991-__	PANEL, GRAPHIC LIGHTED SIGN FREEDOM IV	12	8	-	70	07-226279-000	BRACKET, FILLER 1.400" FREEDOM IV
OPT	OPT	OPT	29	14-040116-04V	SCREW, 4-40 X 1/4 P100FH/CSNK 410 SS VIBRA-TITE	OPT	OPT	OPT	71	07-226275-000	BRACKET, CORNER CLAMP LIBERTY II
OPT	OPT	OPT	30	07-247202-000	BRACKET, EXTRUSION MOUNT FREEDOM IV	1	-	-	72	11-388106-087	BASE, EXTRUDED MACHINED 87.9" CTR SECTION FREEDOM IV
OPT	OPT	OPT	31	07-247203-000	BRACKET, EMITTER MOUNT FREEDOM IV	2	-	-	73	46-0787969-02	HARNESS "B" 92" TO 98" FREEDOM IV
OPT	OPT	OPT	32	14-062216-041	SCREW, 6-32 X 1/4 PPHMS SEMS W/IT LOCK WASHER 410 SS	2	-	-	74	46-0787969-04	HARNESS "C" 92" TO 98" FREEDOM IV
OPT	OPT	OPT	33	15-041416-060	SCREW, 4 X 3/8 PPHSMS	2	-	-	75	46-0787969-03	HARNESS "D" 92" TO 98" FREEDOM IV
REF.	REF.	REF.	34	01-1317921-01	EMITTER, LED LOW PROFILE GTT MODEL 795H PROGRAMMED	1	-	-	76	46-0787969-01	HARNESS "E" 92" TO 98" FREEDOM IV
OPT	OPT	OPT	35	46-0743825-17	CABLE GTT LED EMITTER	1	-	-	77	46-0787969-05	HARNESS "F" 92" TO 98" FREEDOM IV
OPT	OPT	OPT	36	01-0247515-30	SUB ASSY, TAKE DOWN, CENTER OPTION FREEDOM IV	1	1	1	78	01-046E868-00	KIT, UNIVERSAL CONTROL POINT WECAN
OPT	OPT	OPT	37	07-247513-000	BRACKET, TAKEDOWN CENTER OPT FREEDOM IV	32	24	16	79	68-396F391-31	LENS, METALLIZED FULL FILLER
OPT	OPT	OPT	38	01-026G388-00	CENTER STROBE, FREEDOM IV	2	2	6	80	68-3947120-31	LENS, METALLIZED HALF FILLER