

WHELEN[®]

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Installation Guide: Inner Edge[®] Traffic Advisor[™] Series Rear Deck Interior Lightbar 2011 Dodge Charger (Idaho)

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.**
- **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 any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.**
- **If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro[®], clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.**
- **Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.**
- **For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the NEGATIVE (-) battery post.**
- **If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.**
- **Do not attempt to activate or control this device in a hazardous driving situation.**
- **This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.**
- **Use only soap and water to clean the outer lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lens 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

IMPORTANT! 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.

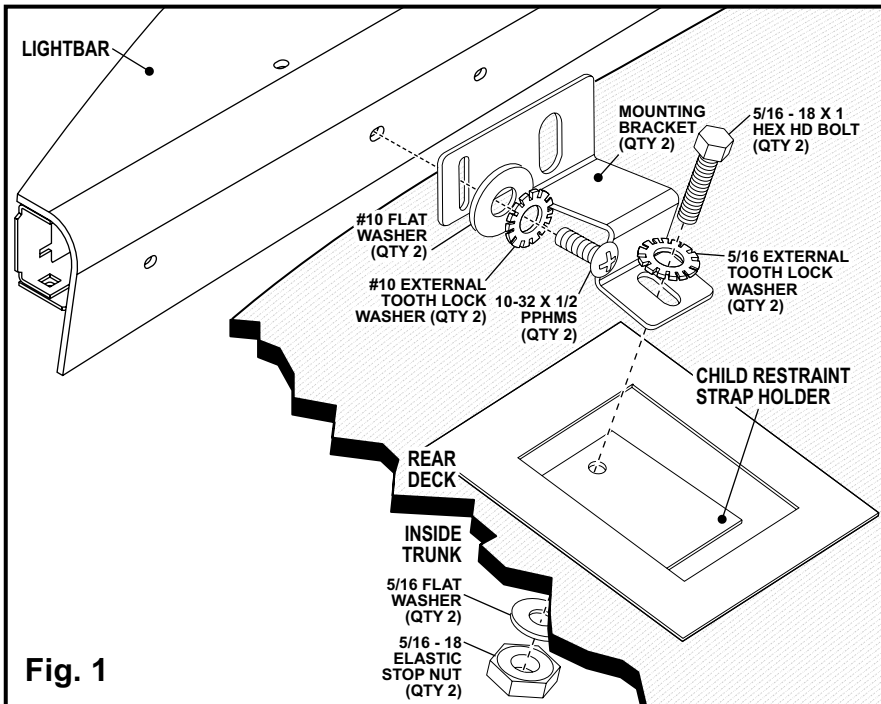


Fig. 1

Installation:

IMPORTANT! The lightbar should be located a minimum of 16" from any radio antennas!

1. On the rear deck, locate the passenger-side outboard cap covering the child restraint strap holder. Remove this cover to access the tether strap holder.
2. For the next step you must remove the plastic panel located inside the trunk to access the bottom side of the child restraint brackets. This panel is held on with christmas tree plugs and magnets.
3. Locate the passenger side lightbar mounting bracket included with the mounting kit. Secure the mounting bracket onto the strap holder using the hardware shown (Fig. 1). Tighten the hardware firmly.
4. Repeat steps 1 thru 3 for the Driver-side mounting bracket then replace the plastic panel you removed in step 2.
5. Position the lightbar onto the rear deck. Secure the lightbar to the mounting brackets using the hardware shown. Do not tighten this hardware yet.

Make sure that the rubber window seal on the lightbar housing fully engages the rear window. To ensure this, hold the lightbar housing firmly against the glass while tightening the hardware securing lightbar to mounting bracket.

While still maintaining pressure on the lightbar, tighten the hardware used to secure lightbar mounting bracket to the child restraint holder.

The lightbar should maintain the seal against the windshield when the pressure is released. If not, loosen the appropriate hardware and repeat this tightening procedure until properly mounted.

6. Route the input cable to your control head (refer to the installation manual included with your control head for important mounting and wiring information).

IMPORTANT! When routing the lightbar cable, 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.

Wiring and Operation:

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!**

Power Cable:

BLACK - Ground

Extend and connect the BLK wire to the ground terminal of the vehicle battery.

RED - Main Power

Route the RED wire to an unused, ignition-controlled circuit fused @ 10 Amps. Do not connect to this circuit yet.

NOTE: When this product is wired as outlined here, the lightbar will not function until the ignition switch is in the ON, RUN or ACC position.

Control Cable:

WHITE - Scan-Lock™ Flash patterns

When the TA feature is active, this wire will select TA patterns; when the end flasher feature is active, this wire will select the end flasher patterns. Do not use Scan-Lock while both features are simultaneously active.

TO CYCLE THROUGH ALL PATTERNS: Apply +12 volts to the WHITE wire for less than 1 second and release to cycle forward. Apply +12 volts for more than 1 second and release to cycle backward.

TO SET A PATTERN AS DEFAULT: When the desired pattern is displayed, allow it to run for more than 5 seconds. The TA will now display this pattern when active.

TO RESET TO THE FACTORY DEFAULT PATTERN: Turn off power, apply +12 volts to the WHITE wire, then turn power on.

Use a Normally Open Momentary Switch. Fuse @1A.

Flash Patterns:

- | | | |
|-------------------------|--------------------------|---------------------|
| 1. SignalAlert™ PH-1 | 19. SingleFlash 90 PH-1 | 38. FlimFlam PH-2 |
| 2. SignalAlert™ PH-2 | 20. SingleFlash 90 PH-2 | 39. FlimFlam PH-3 |
| 3. SignalAlert™ PH-3 | 21. SingleFlash 90 PH-3 | 40. ModuFlash™ PH-1 |
| 4. CometFlash® PH-1 | 22. SingleFlash 120 PH-1 | 41. ModuFlash™ PH-2 |
| 5. CometFlash® PH-2 | 23. SingleFlash 120 PH-2 | 42. ModuFlash™ PH-3 |
| 6. CometFlash® PH-3 | 24. SingleFlash 120 PH-3 | |
| 7. DoubleFlash 75 PH-1 | 25. SingleFlash 240 PH-1 | |
| 8. DoubleFlash 75 PH-2 | 26. SingleFlash 240 PH-2 | |
| 9. DoubleFlash 75 PH-3 | 27. SingleFlash 240 PH-3 | |
| 10. SingleFlash 75 PH-1 | 28. MicroBurst™ PH-1 | |
| 11. SingleFlash 75 PH-2 | 29. MicroBurst™ PH-2 | |
| 12. SingleFlash 75 PH-3 | 30. MicroBurst™ PH-3 | |
| 13. LongBurst™ PH-1 | 31. ActionFlash™ PH-1 | |
| 14. LongBurst™ PH-2 | 32. ActionFlash™ PH-2 | |
| 15. LongBurst™ PH-3 | 33. ActionFlash™ PH-3 | |
| 16. SingleFlash 60 PH-1 | 34. PingPong™ PH-1 | |
| 17. SingleFlash 60 PH-2 | 35. PingPong™ PH-2 | |
| 18. SingleFlash 60 PH-3 | 36. PingPong™ PH-3 | |
| | 37. FlimFlam PH-1 | |

TA Patterns:

1. Sequence to Solid
2. Seq. On - Seq. Off
3. 3 Light TripleFlash
4. 2 Light TripleFlash
5. 1 Light TripleFlash

PH1 = Left and Right flash simultaneously

PH2 = In and Out

PH3 = Checkerboard Pattern

ORANGE - Low Power Operation

For low power operation apply +12VDC to the ORANGE wire. The unit will continue to operate in Low Power mode until this voltage is removed.

A SP/ST switch is best suited for this circuit. Fuse this wire @1A.

BLUE - TA Flash

When +12VDC is applied to this wire, the Traffic Advisor™ lightbar function becomes active. A SP/ST switch is best suited for this circuit. Fuse this wire @1A.

RED - Left TA

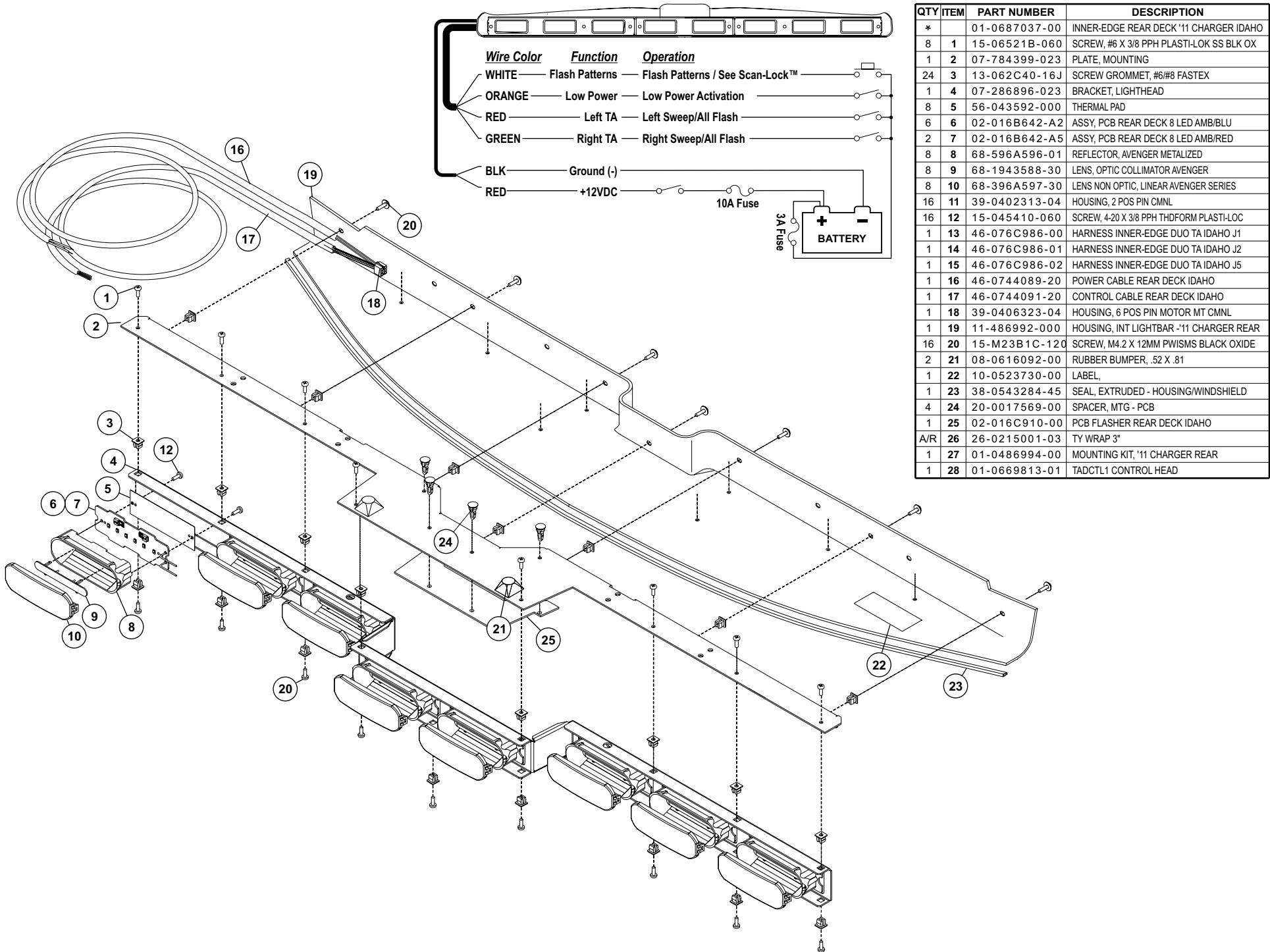
When +12VDC is applied to this wire, the lights sweep from right to left. A SP/ST switch is best suited for this circuit. Fuse this wire @1A.

GREEN - Right TA

When +12VDC is applied to this wire, the lights sweep from left to right. A SP/ST switch is best suited for this circuit. Fuse this wire @1A.

NOTE: If you apply power to both the RED and GREEN wires simultaneously, you will get a split pattern. Both sides will start at the center and sweep outward.

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.



QTY	ITEM	PART NUMBER	DESCRIPTION
*	1	01-0687037-00	INNER-EDGE REAR DECK '11 CHARGER IDAHO
8	1	15-06521B-060	SCREW, #6 X 3/8 PPH PLASTI-LOK SS BLK OX
1	2	07-784399-023	PLATE, MOUNTING
24	3	13-062C40-16J	SCREW GROMMET, #6/#8 FASTEX
1	4	07-286896-023	BRACKET, LIGHTHEAD
8	5	56-043592-000	THERMAL PAD
6	6	02-016B642-A2	ASSY, PCB REAR DECK 8 LED AMB/BLU
2	7	02-016B642-A5	ASSY, PCB REAR DECK 8 LED AMB/RED
8	8	68-596A596-01	REFLECTOR, AVENGER METALIZED
8	9	68-1943588-30	LENS, OPTIC COLLIMATOR AVENGER
8	10	68-396A597-30	LENS NON OPTIC, LINEAR AVENGER SERIES
16	11	39-0402313-04	HOUSING, 2 POS PIN CMNL
16	12	15-045410-060	SCREW, 4-20 X 3/8 PPH THDFORM PLASTI-LOC
1	13	46-076C986-000	HARNES INNER-EDGE DUO TA IDAHO J1
1	14	46-076C986-01	HARNES INNER-EDGE DUO TA IDAHO J2
1	15	46-076C986-02	HARNES INNER-EDGE DUO TA IDAHO J5
1	16	46-0744089-20	POWER CABLE REAR DECK IDAHO
1	17	46-0744091-20	CONTROL CABLE REAR DECK IDAHO
1	18	39-0406323-04	HOUSING, 6 POS PIN MOTOR MT CMNL
1	19	11-486992-000	HOUSING, INT LIGHTBAR '11 CHARGER REAR
16	20	15-M23B1C-120	SCREW, M4.2 X 12MM PWISMS BLACK OXIDE
2	21	08-0616092-000	RUBBER BUMPER, .52 X .81
1	22	10-0523730-000	LABEL,
1	23	38-0543284-45	SEAL, EXTRUDED - HOUSING/WINDSHIELD
4	24	20-0017569-000	SPACER, MTG - PCB
1	25	02-016C910-000	PCB FLASHER REAR DECK IDAHO
A/R	26	26-0215001-03	TY WRAP 3"
1	27	01-0486994-000	MOUNTING KIT, '11 CHARGER REAR
1	28	01-0669813-01	TADCTL1 CONTROL HEAD