JL AUDIO®

Linea of the Curve

LED LIGHT CAP

Installation Instructions for

M-LCA-C-W
&
M-LCB-C-W

FOR ETXv3 & VeX™ ENCLOSED SPEAKER SYSTEMS

Included Hardware:

(hardware pictured for one)

BOM ID	Quantity	Description
1	1	M10 Locknut Tool
2	2	M10 x 1.5 Nylon Insert Flange Locknut
3	2	LED Light Cap
4*	2	Threaded Stud
5*	2	O-Ring
-	2	150mA Fuse (not shown)
-	2	Fuse Holder (not shown)
-	2	Female Connector (not shown)

* Pre-installed on LED Cap

LED Light Cap Wiring:

Wire Size	Wire Color	Use
18 AWG	Red	LED Positive (+)
	Black	LED Negative (−)

Enclosed Speaker System Wiring:

Wire Size	Wire Color	Use
16 AWG	Red/Stripe	Speaker Positive (+)
	Black/Stripe	Speaker Negative (−)
	Red	LED Light Cap Positive (+)
20 AWG	Green	LED Light Cap Negative (−)
	Blue	Speaker LED Positive (+)
	Yellow	Speaker LED Negative (−)

Note: Not all wires may be used in normal applications.
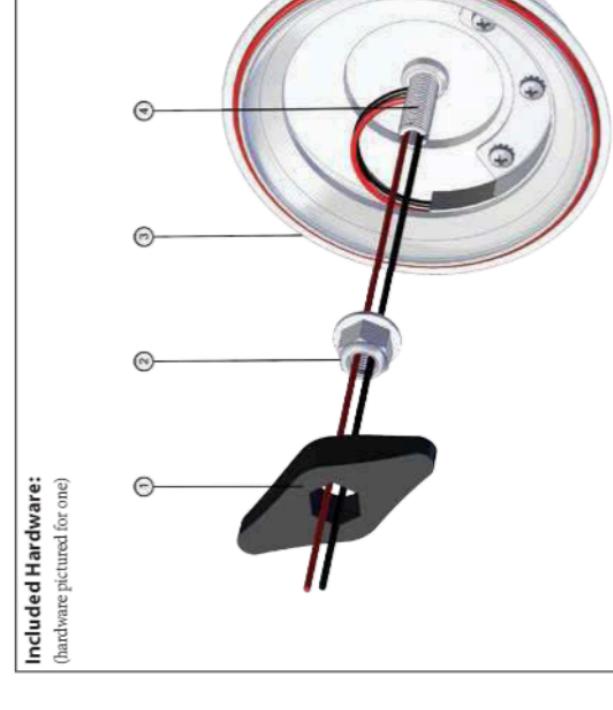
NOTE: The M-LCA-C-W Light Cap and M880-ETX3-SG-WH Enclosed Speaker System are used in this manual for illustrative purposes only. The installation steps are the same for all ETXv3 and VeX™ Enclosed Speaker Systems and all LED Light Caps.

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Example: One pair of LED circuits connected in parallel.

[GND]
[+12V] Fuse

LED (Red/Black) — Fuse — LED (Red/Black) — Fuse

Example: Two pairs of LED circuits connected in parallel.

[GND]
[+12V] Fuse

LED — Fuse — LED — Fuse — LED — Fuse — LED — Fuse (Red/Black)

• For marine installations, do not connect the LED lights to the vessel's navigational lighting circuits.

• For short-circuit protection, install a supplied fuseholder onto EACH LED Light Cap's RED (+12V) LED power connection lead.

• Connect all RED (+12V) leads together (parallel) and connect to a switched +12V supply. Connect all GREEN (GND) leads together and connect to a negative ground or to the NEGATIVE battery post.

• We recommend activating the LEDs thru a lighting circuit that supplies +12V via an existing switch. If an existing switched circuit is not available, you may install a dedicated toggle/rocker style switch that will supply positive (+12V) power. Fuse this connection according to how many LED circuits you have (LED circuits x 150 mA).

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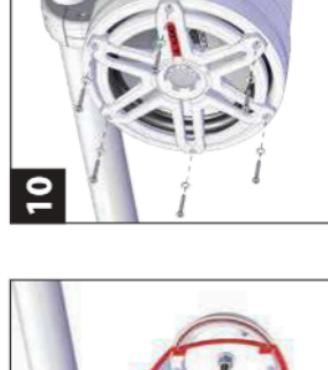
Reconnect the speaker wiring, and reinstall the speaker using the six #8 x 1-1/4" Pan Head Screws and six #8 Flat Washers.

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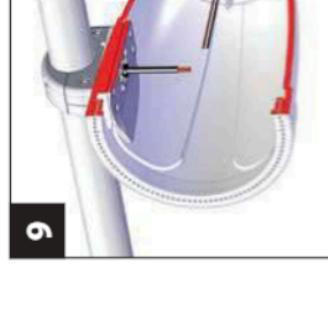
Connect the LED wires from the LED Light Cap to the LED wires entering the enclosure. Refer to the wiring charts on the opposite page for details. DO NOT install the fuse holders inside the enclosure.

6
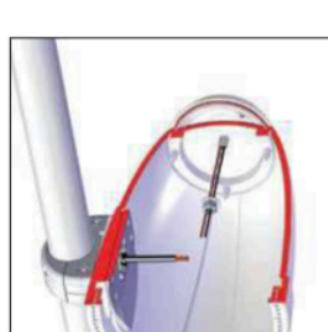
Slide an M10 x 1.5 Nylon Insert Flange Locknut over the LED wiring, and hand-tighten onto the Threaded Stud.

8
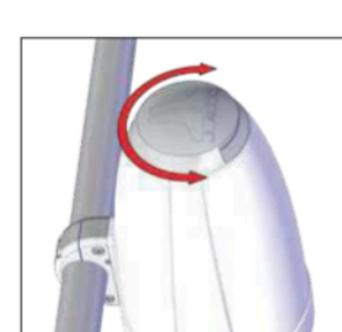
Rotate the LED Light Cap to the desired angle. Using the M10 Locknut Tool, fully tighten the M10 x 1.5 Nylon Insert Flange Locknut until the O-ring is fully compressed and not visible to ensure the unit is properly sealed. Remove the M10 Locknut Tool from the enclosure.

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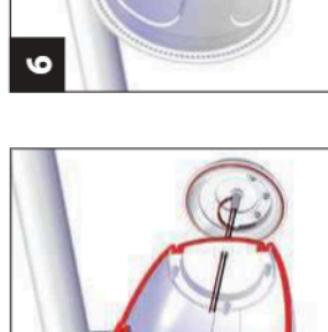
Pass the LED wires and Threaded Stud on the back of the LED Light Cap through the drilled hole, and position the cap flush against the back of the enclosure.

7
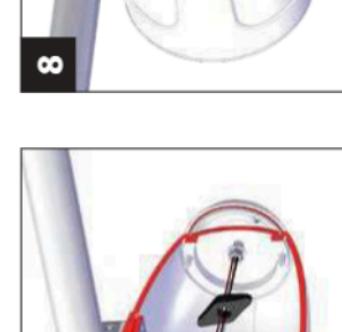
Slide the M10 Locknut Tool over the LED wires and onto the M10 x 1.5 Nylon Insert Flange Locknut.

2
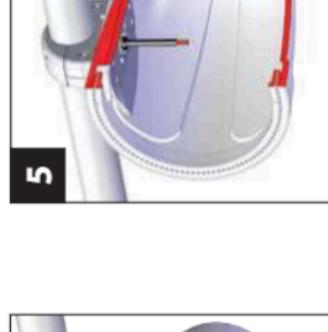
Disconnect the speaker wiring and speaker LED wiring (if equipped), and remove the speaker from the enclosure.

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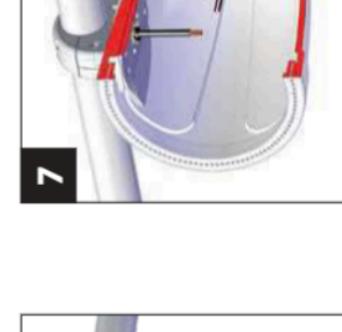
Using a 7/16" drill bit, carefully drill through the center of the rear aluminum logo cap into the enclosure. File any sharp edges.

1


Remove the six #8 x 1-1/4" Pan Head Screws and six #8 Flat Washers that secure the speaker to the enclosure.

3

Using the exterior angles of the JL Audio logo as a guide, mark the center of the rear aluminum logo cap, as shown. Using a punch tool, make an indent in the aluminum logo cap on the center mark.