



Zone Technologies Inc. | *Innovation in Motion*

Version 1.1



Installation manual for:

ZFS100-KIT-M

Low Profile Motorized Support Without Clutch

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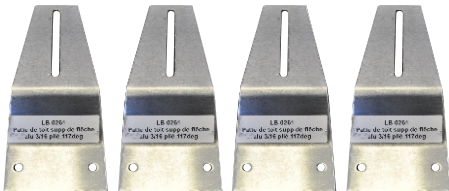
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LIST OF PROVIDED MATERIALS

ZFS100-KIT-M 	ASY-CBLZFS100-20 (motor power cable)  Harness = 6m	FL1-L21220  Harness = 6m
Bolts  - 4 x M10 x 75mm - 12 x M8 x 40mm	Washers  - 8 x M10 - 32 x M8	Nuts  - 4 x M10 - 12 x M8
LB-0261 	LB-0148 & Suction Cups  x4 x4	VIS-J-5/16-18 Zinc and nuts  - 4 x 175mm x 7.9mm
Cable gland & nut 		

LIST OF NECESSARY MATERIALS

Silicone applicator 	Silicone  <i>Zone Technologie recommande le produit Sikaflex 521UV</i>	Ratchet 
Ratchet socket  - 10mm	Open-end wrench  - 10mm	Phillips screwdriver (cross head) 
Wire cutters 	Tie rap - 15 cm (approx.) 	Measuring tape & Marker 
Drill and Drill Bit  - 3mm - 8mm - 13mm	Hammer & Vise 	Copper paste for flu relief  <i>Zone Technologie recommends product 890.920284 (Wurth)</i>

IMPORTANT INFORMATION

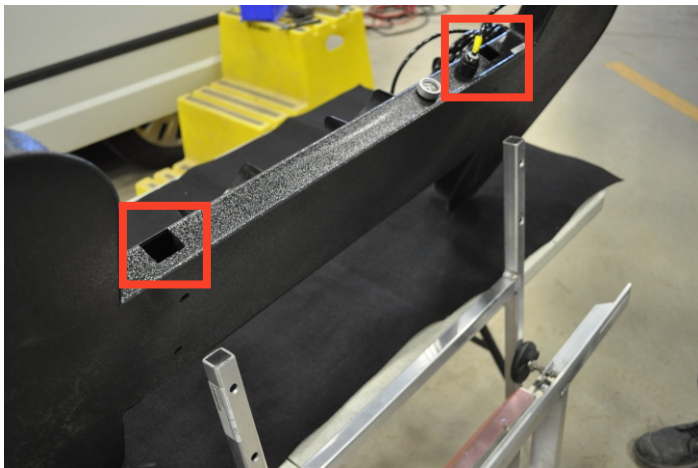
Before proceeding to the installation, please read the information below:

- ❖ The ZFS100-KIT-M can be installed on any type of vehicle.
- ❖ Ensure that the mounting location for the support and arrow is strong enough to support their weight, particularly **when the vehicle is in motion**.
- ❖ Do not neglect the sealing steps, as water infiltration can lead to rust and mold inside the vehicle.

INSTALLATION



1) Insert the arrow into the holder



Locate the 2 holes under the arrow

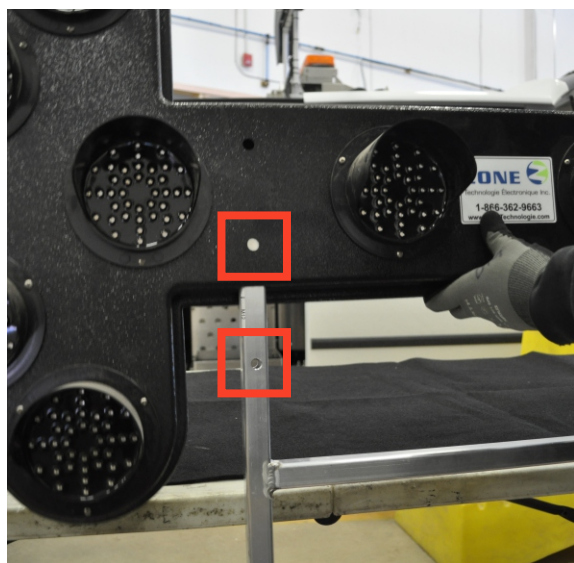


Insert the bracket into the 2 holes



2) Align the mounting holes and install the arrow mounting bolts

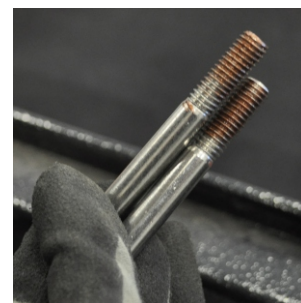
- Use: 4 x Bolts M10 x 75mm
- 8 x Washers M10
- 4 x Nuts M10



Align the holes in the arrow with those in the support



Make sure to put a washer on the front and back of the arrow for each bolt



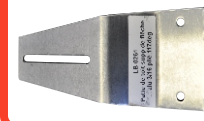
Apply anti-seize paste to each bolt



TYPE #1: LB-0261

Refer to page #10 for support type #2 (LB-0148)

LB-0261



3) Choose the location to mount the ZFS100-KIT-M

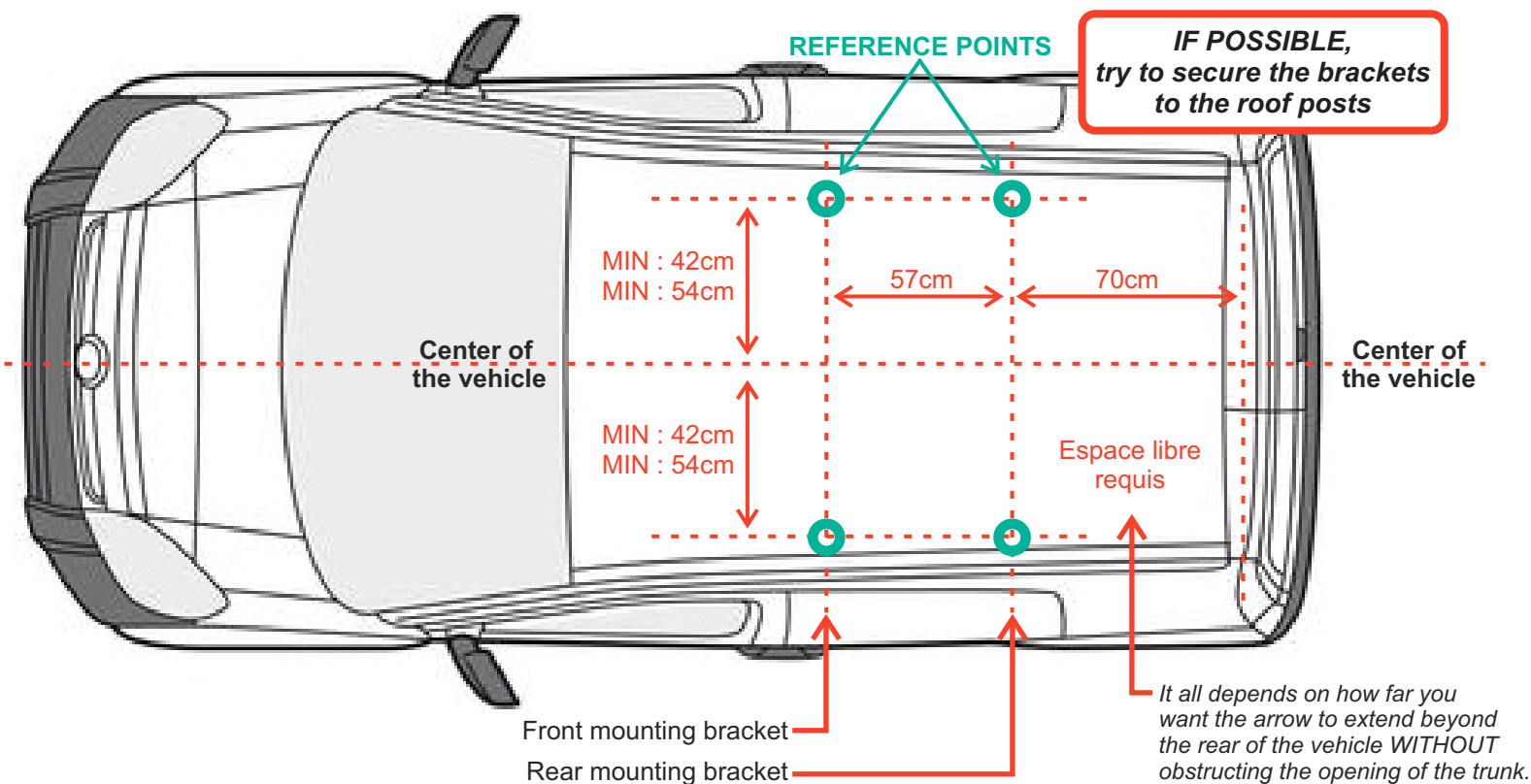
- Feel free to place it on the roof of the vehicle temporarily.
- Ensure that nothing **inside the vehicle** obstructs access to the 8 mounting holes



Drilling locations (2 per side of the vehicle).

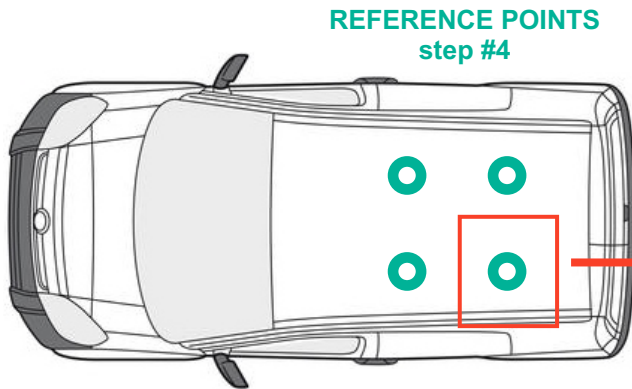


4) Mark the 4 reference points using a felt-tip pen

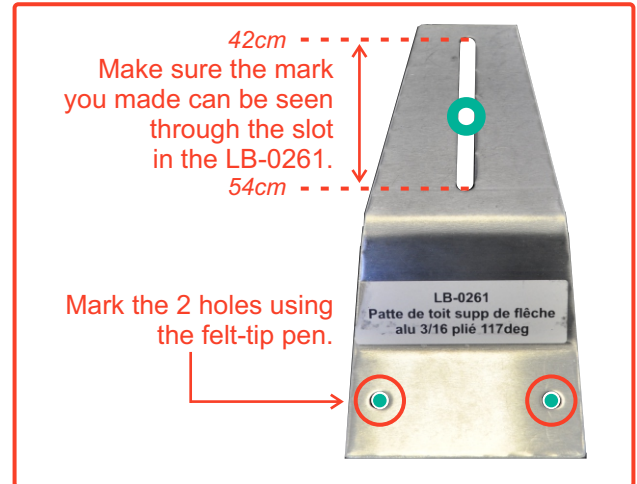




5) Mark the eight drill hole locations required to mount the LB-0261.



Repeat the same operation for all 4 reference points.



6) Drill the 8 holes for the LB-0261 fasteners.

Pre-drilling: Drill Bit = 3mm (optionnel)

Perçage: Drill Bit = 8mm



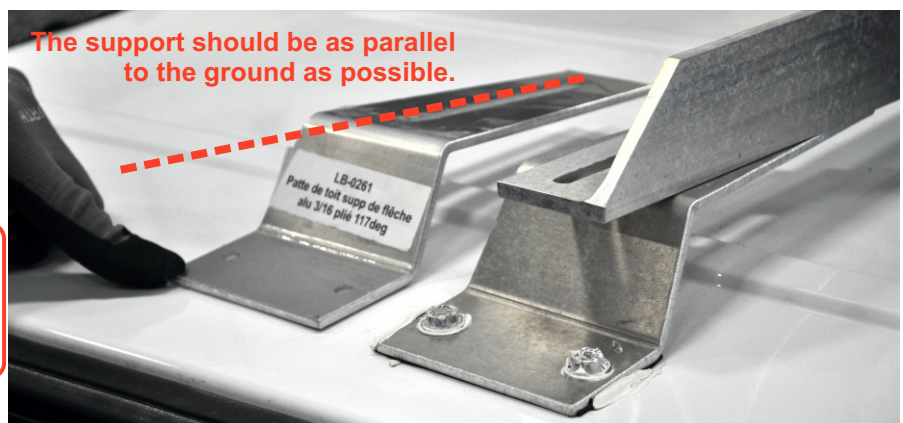
IMPORTANT: It is best to remove part or all of the vehicle's interior headliner (ceiling) **BEFORE** drilling the holes



7) Adjust the angle, if necessary, of the 4 brackets according to the type of vehicle.

Use a hammer and a vise to achieve the desired result.

Perform this operation BEFORE attaching the brackets to the vehicle's roof to avoid any breakage.



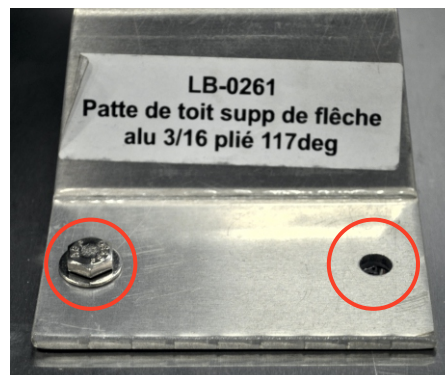


8) Secure the 4 LB-0261 brackets using the M8 x 40mm bolts.

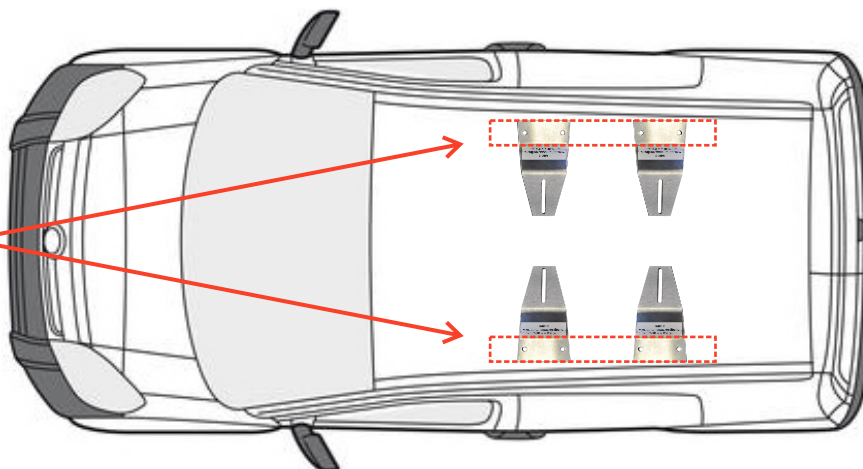
FOR EACH SUPPORT:

- 2 x bolts
- 2 x washers (exterior of vehicle)
- 2 x washers (vehicle interior)
- 2 x nuts (vehicle interior)

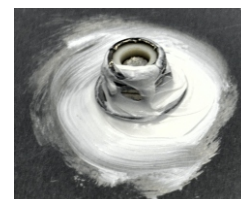
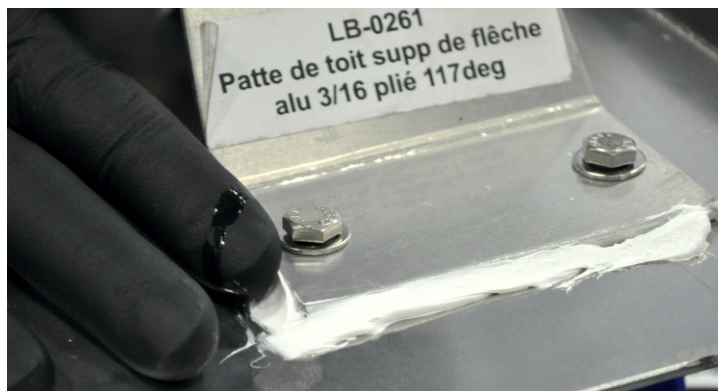
Use the appropriate tools to properly tighten the 4 supports



IMPORTANT :
Do not hesitate to add extra reinforcements inside the vehicle in the case of less rigid roofs (NOT INCLUDED).



9) Seal the 4 brackets installed in step #8 with silicone.



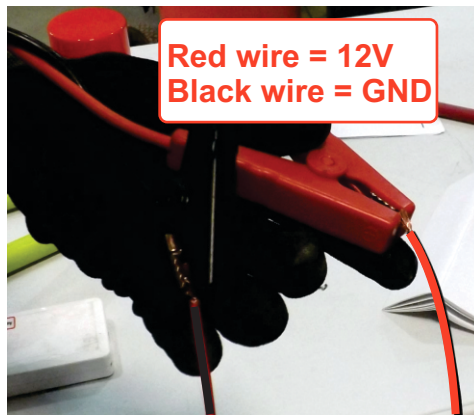
Apply silicone sealant to the INSIDE and OUTSIDE of the vehicle around each nut and around the supports.



10) Raise the ARROW (warning position)



#1: Connect the motor connector to the supplied 6m extension cable.



#2: Use a protected **12Vdc 15A power supply** to activate the boom lift.



ATTENTION

The support motor will activate and move the arrow. Ensure that the area around the arrow is clear of objects that could be affected by its movement

IMPORTANT

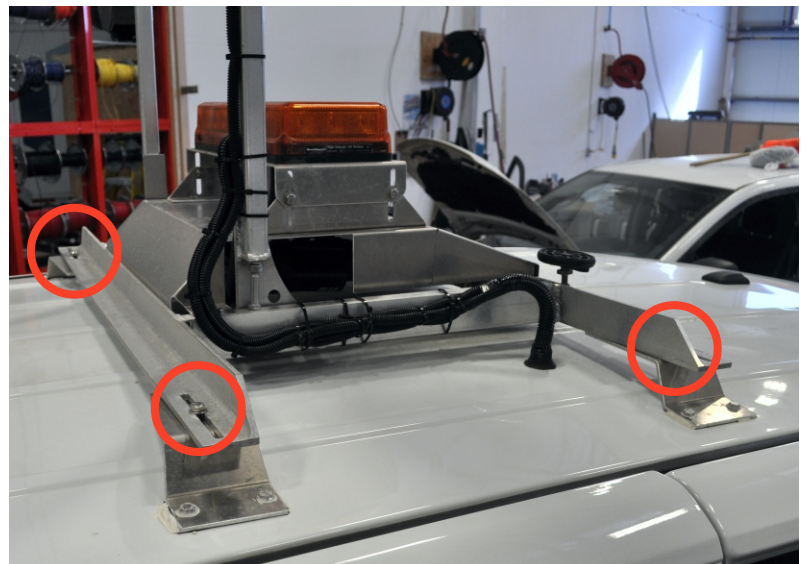
Turn off the power just **before** the support reaches its **maximum** height (85°)



11) Install the ZFS100-KIT-M support onto the 4 brackets previously installed and secure it using 4 M8 x 40mm bolts.



CAUTION: It would be best to have two people to avoid any injuries or damage to the vehicle.



Place a washer on the top and bottom of each bolt

Use the necessary tools to properly tighten each of the 4 bolts.



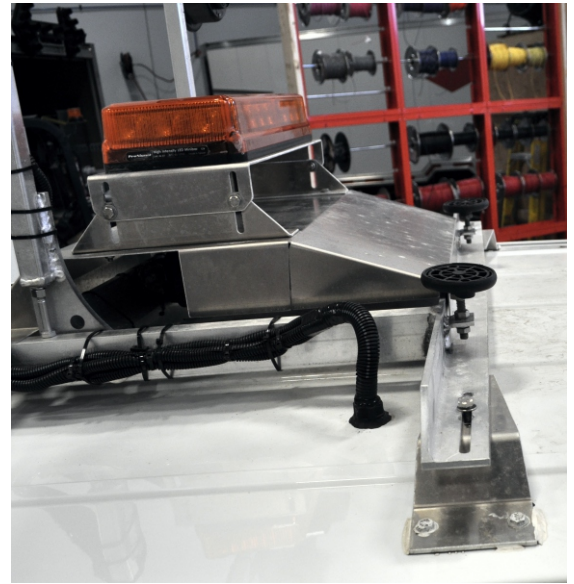
12) Drill the hole in the cable gland.

Pre-drilling: Drill bit = 3mm (optionnel)

Drill bit = 13mm



The exact distances are not critical.
**Ensure there is approximately 3 cm of clearance
on each side of the cable gland.**



13) Install the cable gland and seal it with silicone.

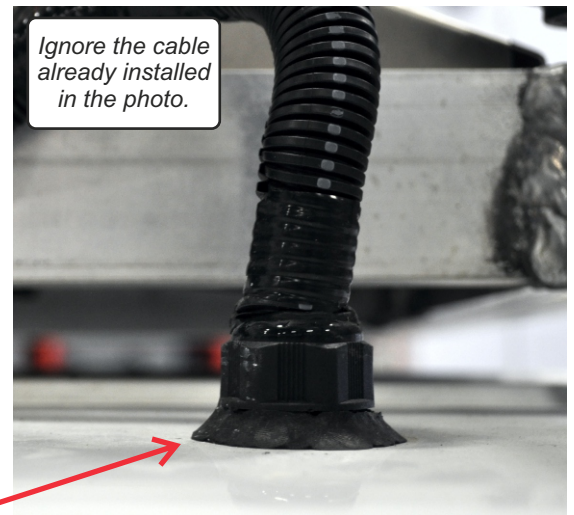
Exterior of
the vehicle ↑

Vehicle
interior ↓

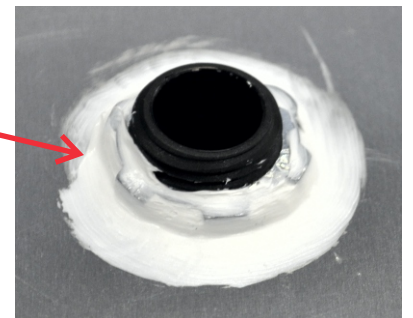


Vehicle
interior

*Ignore the cable
already installed
in the photo.*

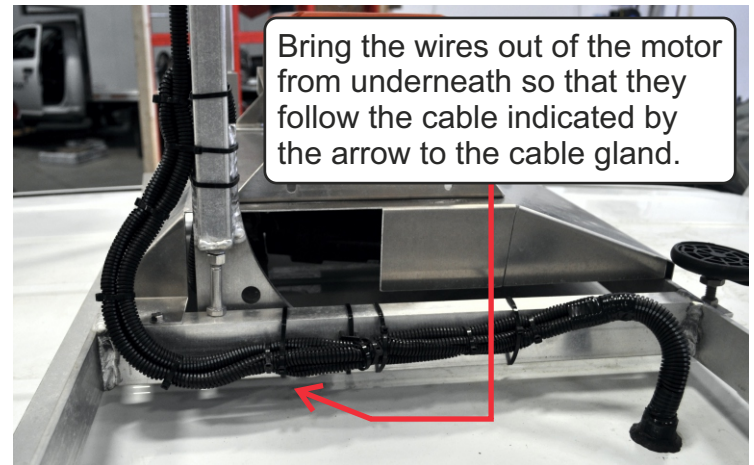
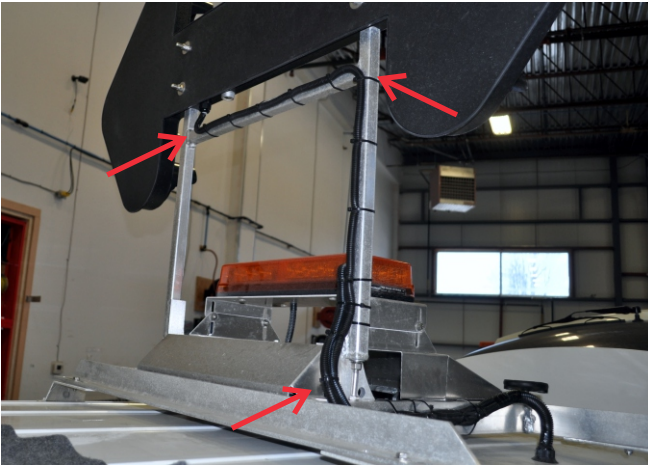


Apply the silicone
to the outside
and inside





- 14) Guide the cable indicated by the arrow along the ZFS100-KIT-M bracket to the cable gland installed in the previous step.



Use zip ties to securely fasten the Arrow cable and Motor control wires.

It is best to put a split sleeve (NOT INCLUDED), also called “Loom”, around the Arrow cable and Motor wires.



- 15) Loosen the cable gland and insert the cables into it to bring the cables inside the vehicle.



Tighten the cap once the wires are through



Add silicone BETWEEN the wires



Put the Loom back in place

NOTE: Photos show the cable for the optional Beacons.



16) Route the cables through the vehicle's interior trim to reach the control module.

CTRL-FL1 (Arrow controller)



M8R110-2-xxxx



Refer to the manual for each of the modules above for the wiring diagram with the indicator arrow and the motor.



SUPPORT / CONTACTS



TECHNICAL SUPPORT

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Do not send items without a Return Merchandise Authorization (RMA) number



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