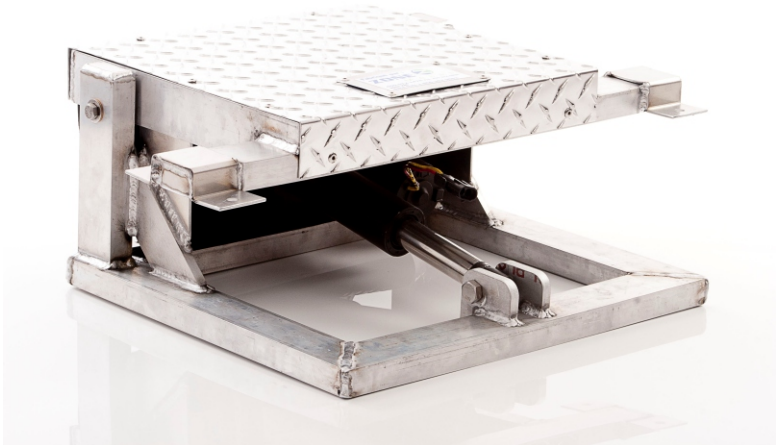




Zone Technologies Inc. | *Innovation in Motion*

Version 1.1



Installation manual for:

ZFS200-KIT-M

Compact Motorized Support Without Clutch

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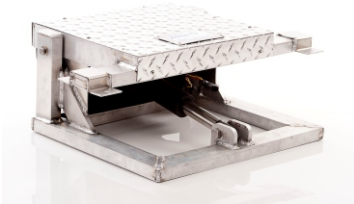
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LIST OF PROVIDED EQUIPMENT

ZFS200-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
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 Adjustable	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 ZFS200-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**.
- ❖ **Interior reinforcements** must be added when the installation does not allow mounting through the vehicle's structural pillars.
- ❖ Do not neglect the sealing steps, as water infiltration can lead to rust and mold inside the vehicle.

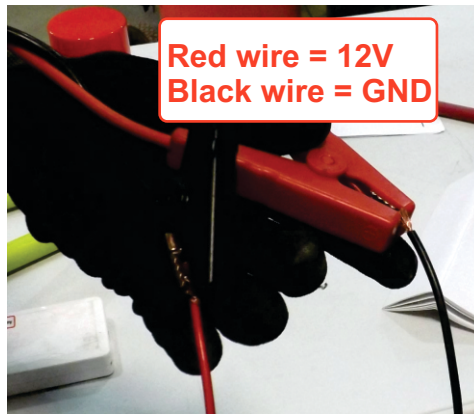
INSTALLATION



1) Raise the Arrow of the ZFS200-KIT-M (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.

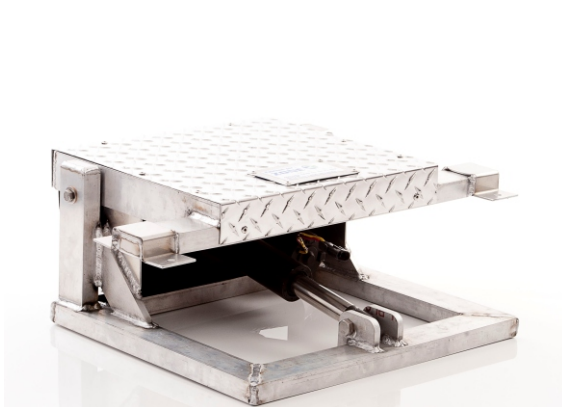


ATTENTION

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°)



HORIZONTAL POSITION
(Arrow down)

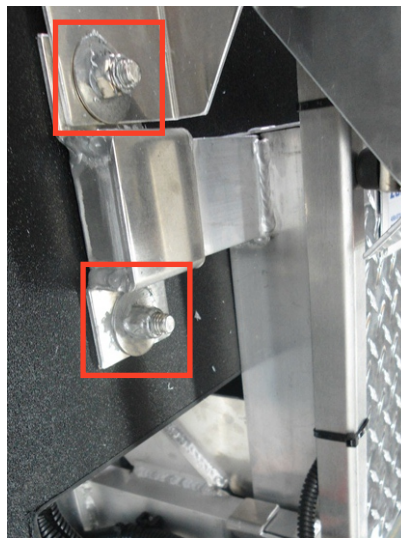
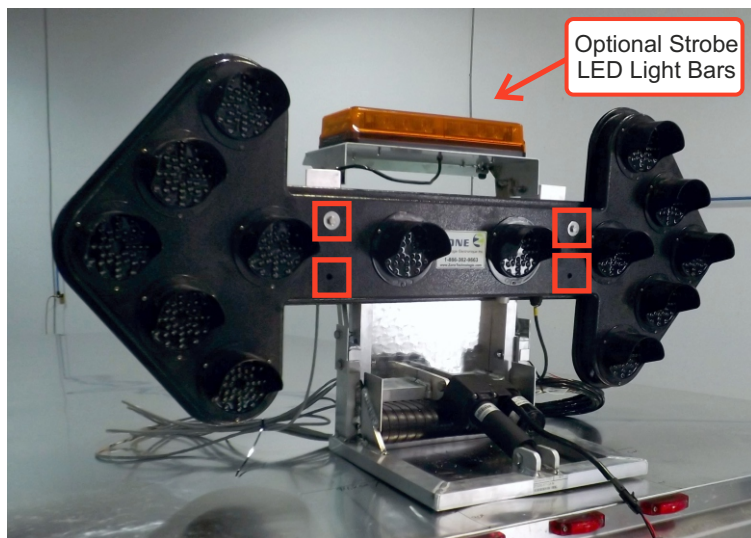


VERTICAL POSITION
(Arrow up)



2) Secure the **Traffic Arrow** to the bracket using the supplied bolts and nuts.

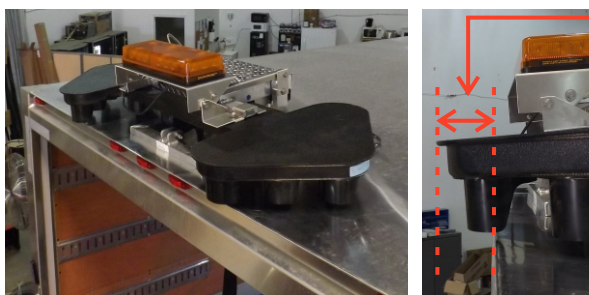
- Use: 4 x Bolts M10 x 75mm
- 8 x Washers M10
- 4 x Nuts M10



View from behind

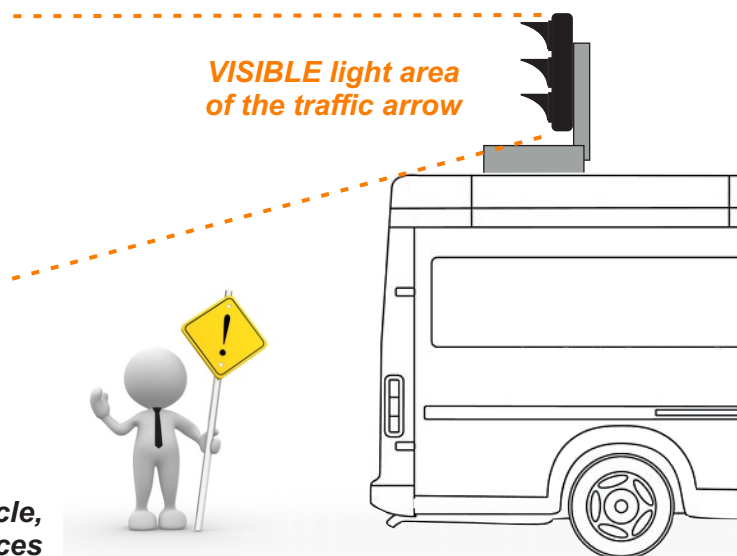


3) Identify the location where the bracket will be mounted on the vehicle roof.



Make sure the roof is strong enough

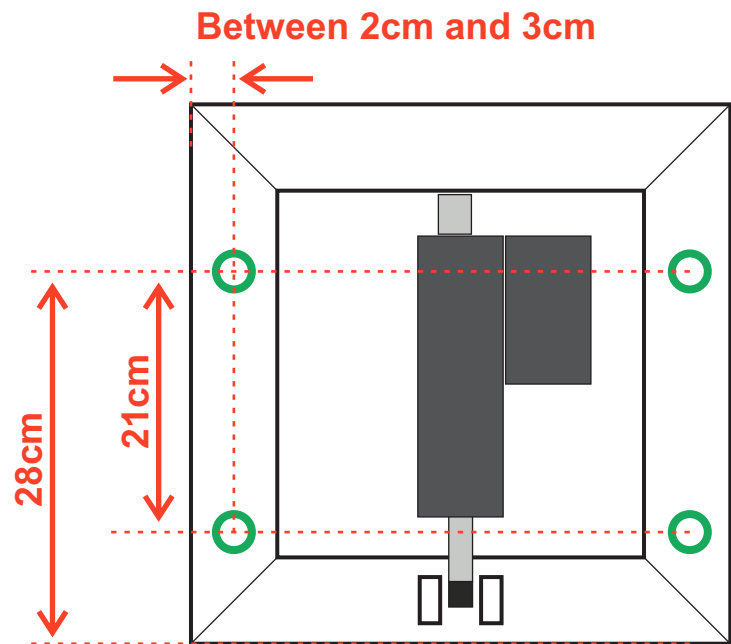
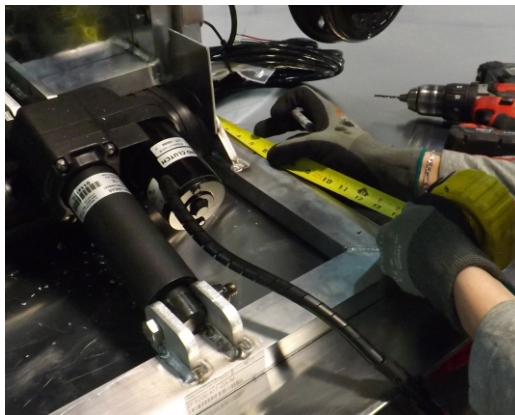
NO: Ensure that the arrow does not extend beyond the rear of the vehicle.



The closer the traffic arrow is to the rear of the vehicle, the more visible it will be at short distances



4) Using a marker, mark the four mounting holes on the base of the ZFS200-KIT-M



The diagram below is provided for reference only. The hole locations may be adjusted as required.
 Always maintain a minimum distance of 15 cm between each hole..
Ensure that drilling these holes will not affect the roof structure.



5) Drill the four holes in the base of the ZFS200-KIT-M at the locations marked in the previous step.

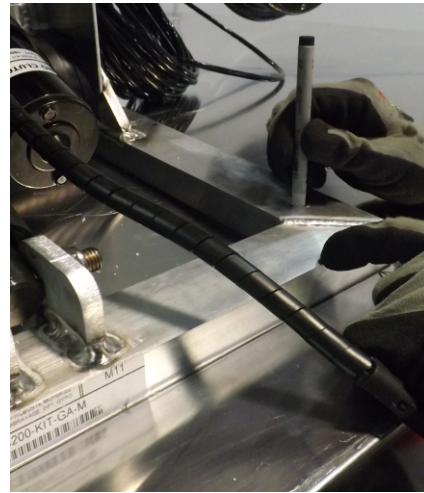




6) Mark the four holes to be drilled on the vehicle roof.



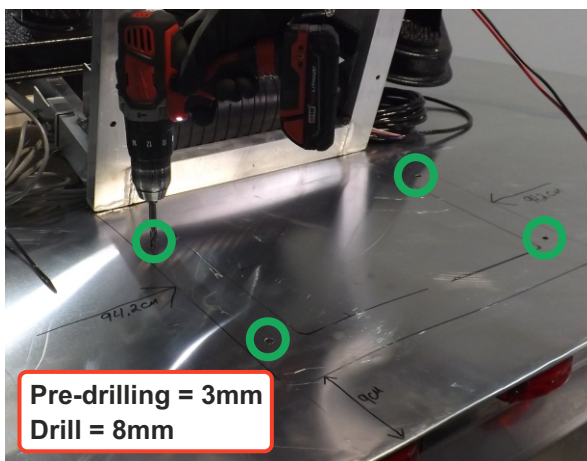
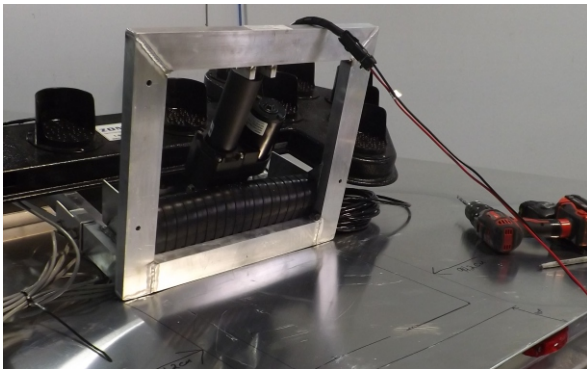
Reposition the ZFS200



Mark the 4 holes



7) Drill the vehicle roof : **Make sure the interior is clear of any obstructions.**



Pre-drilling = 3mm
Drill = 8mm



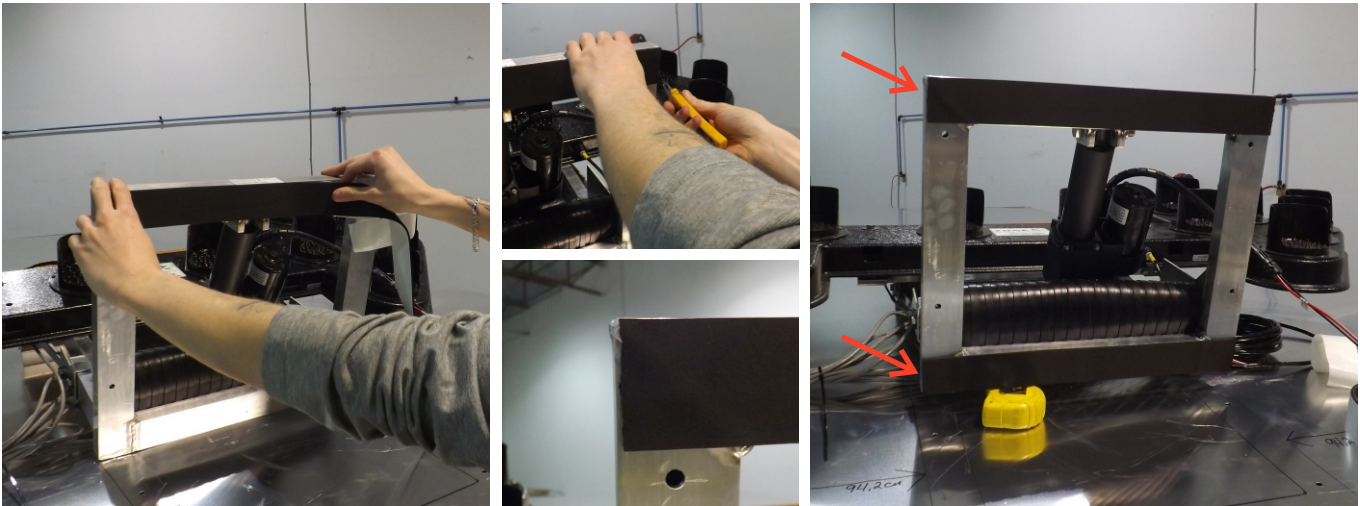
Don't hesitate
to drill through
the pillars.



Securing through the pillars will
ensure a more robust installation.

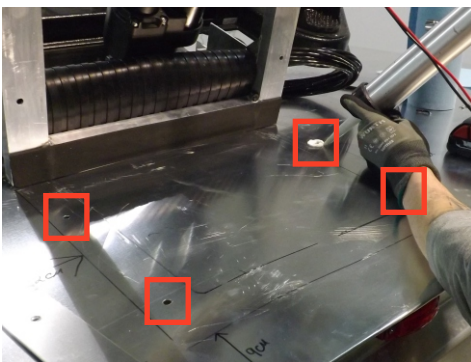


8) Optional: Install a protective neoprene strip under the ZFS200-KIT-M.



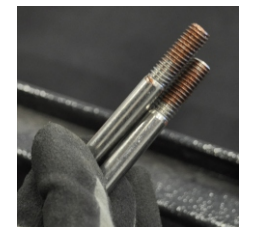
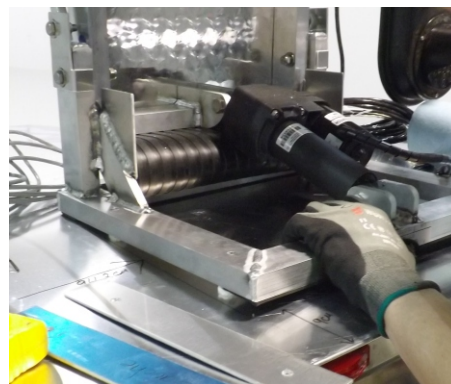
9) Secure the ZFS200-KIT-M to the roof.

- Use: 4 x Bolts M8 x 40mm
 - 8 x Washers M8
 - 4 x Nuts M8
- Depending on the roof thickness, a longer bolt may be required.**



#1: Apply silicone around the 4 holes

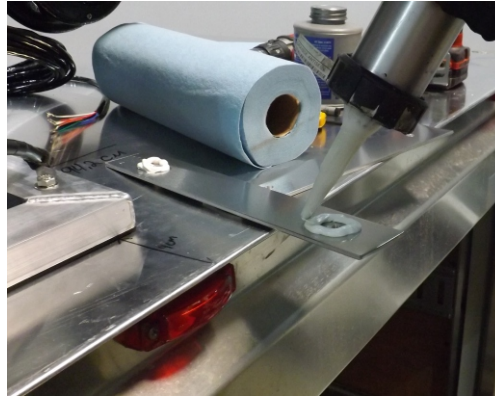
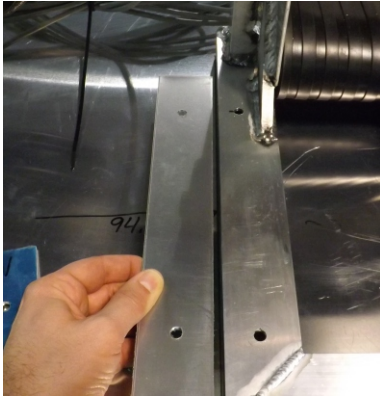
#2: Reposition the ZFS200-KIT-M and install the 4 bolts.



Apply anti-seize paste to each bolt



10) Add a metal reinforcement inside **if necessary** (optional).

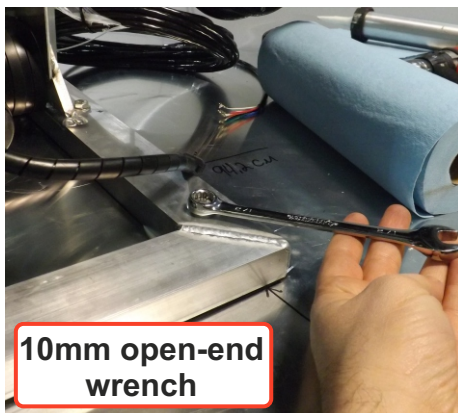


Example of an aluminum reinforcement (5cm x 30cm x 2.5mm)

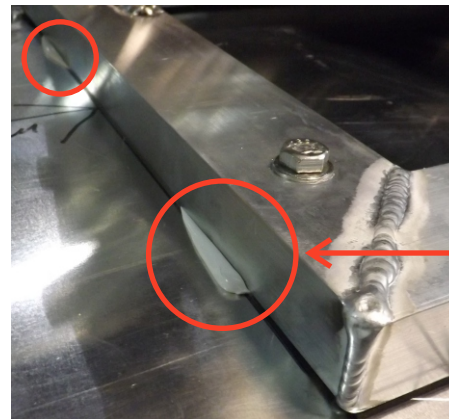
Apply silicone around each of the 4 holes



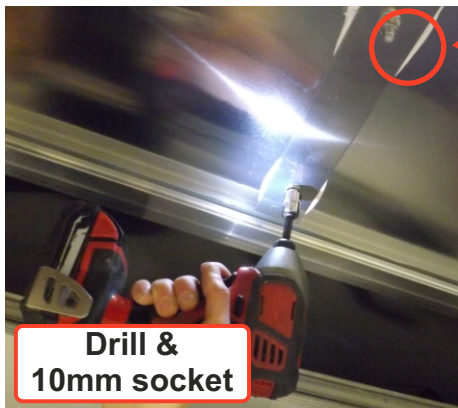
11) Tighten the 4 bolts using the appropriate tools.



10mm open-end wrench



Make sure silicone oozes out the sides once tightened.
Clean off the excess silicone.



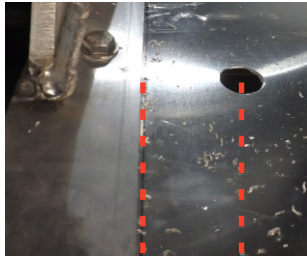
Drill & 10mm socket



12) Drill the hole for the cable gland and install it.

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

Drill bit = 13mm



Between
5cm & 10cm

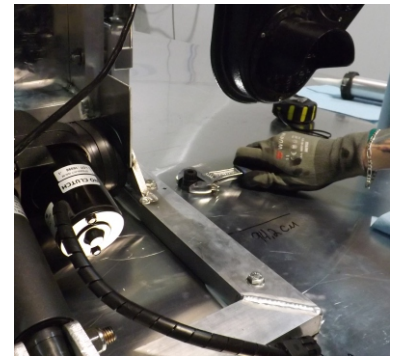
Exterior of
the vehicle ↑

Vehicle
interior ↓

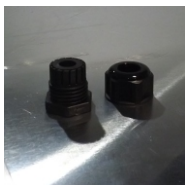
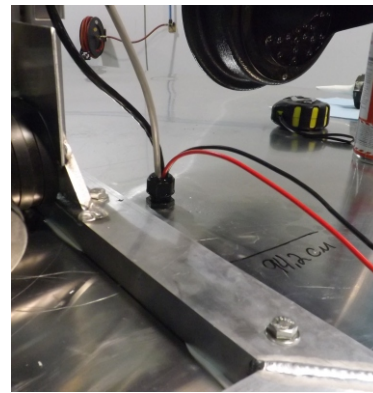


Vehicle
interior

Remove the cap from the black part
to facilitate final tightening.



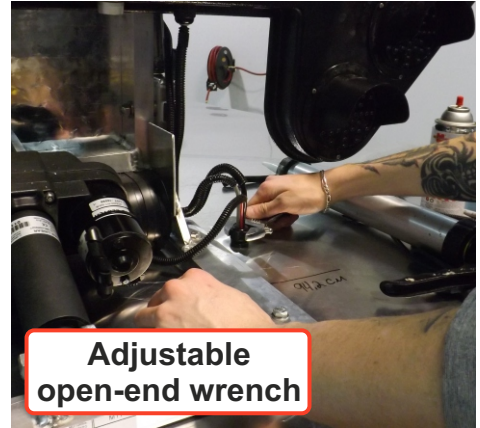
13) Pass the wires from the Arrow and the Motor through the cable gland.



**NOTE : Don't forget to put the cap back in place
BEFORE passing the wires through.**



- 14) Install the split sleeve (loom) on each of the cables (arrow and motor) and tighten the cable gland to secure the cables.



Tighten the cap to prevent water from entering through the cables..

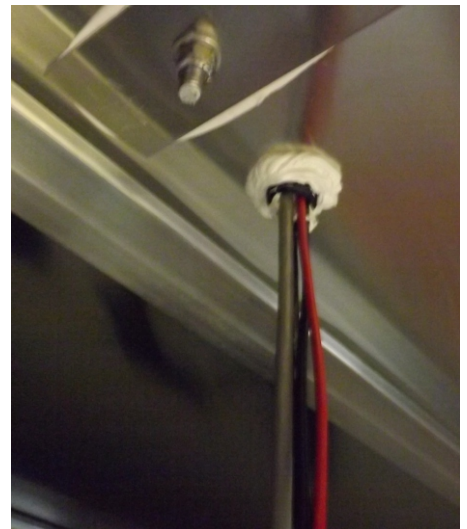
Secure the cables using Zip ties after installing the split sleeve.



- 15) Apply the silicone as indicated below to the cable gland.



Slightly move the split looms to properly protect the vehicle's interior from water infiltration.



Perform the same operation inside the vehicle



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



M8R110-2-xxxx



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



[illegible]

[illegible]

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SUPPORT / CONTACTS



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