

INSTALLATION INSTRUCTIONS

LAST UPDATE 2025	VEHICLE TYPE GRENADIER
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MADE IN GERMANY

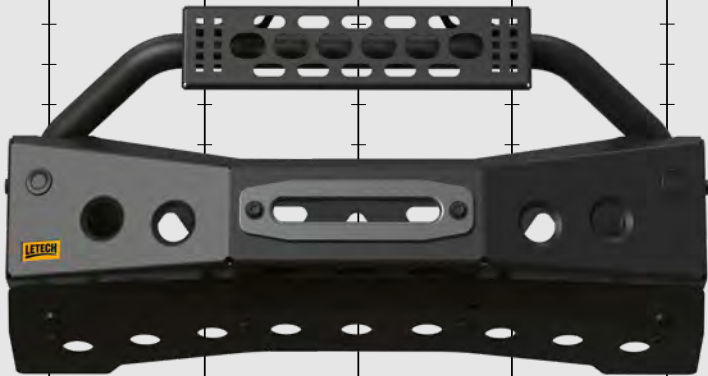


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1. GENERAL

Thank you for purchasing a LETECH quality product. Through state-of-the-art production facilities, constant checks and regulated processes, we ensure that only flawless products leave our production.

1.1 SAFETY INSTRUCTIONS

Work on the vehicle may only be carried out by trained specialists.

Work on the vehicle electrical system may only be carried out by specialists with appropriate electrical and electronic knowledge.

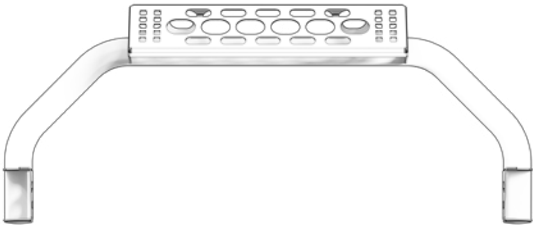
Before working on the vehicle electrical system, disconnect the battery.

Use suitable tools when preparing and assembling the LETECH winch attachment.

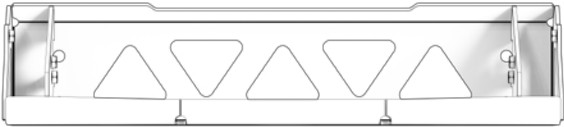
In general, the safety requirements of the respective workshop or country must be observed.

1.2 SCOPE OF DELIVERY

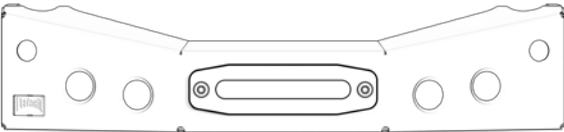
Cross tube
(1x)



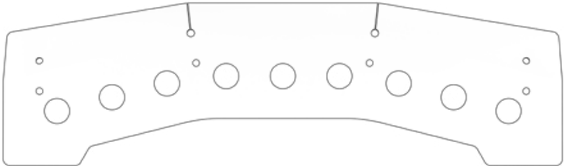
Mounting base
(1x)



Winch cover
(1x)



Fender
(1x)



1.2 SCOPE OF DELIVERY

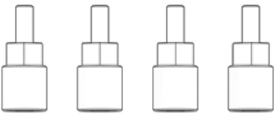
Screw M8x16
(6x)



Screw M10x35
(4x)



Distance nut
(4x)



Flange nut M12x1,5
(4x)



Screw M10x20
(10x)



Screw M8x20
(4x)



Left fender bracket
(1x)

Right fender bracket
(1x)



Fender bracket
(1x)



2. ASSEMBLY



Remove the license plate holder.

2. ASSEMBLY



Remove the 4 screws on each of the right and left plastic holders, then remove the plastic holders.

2. ASSEMBLY



Remove 6 Torx screws per side (left and right).

2. ASSEMBLY



Remove 3 Torx screws. Slightly pull the center part forward.

2. ASSEMBLY



Remove 13 Torx screws from the rear side of the center part.

2. ASSEMBLY



Remove the metal panel and the two underlying plastic air channels.

2. ASSEMBLY



Disconnect the wiring harness with the PDC sensors from the center section and the front left of the bumper.

2. ASSEMBLY



Put the center section aside. Remove the cover of the central PDC sensors.

2. ASSEMBLY



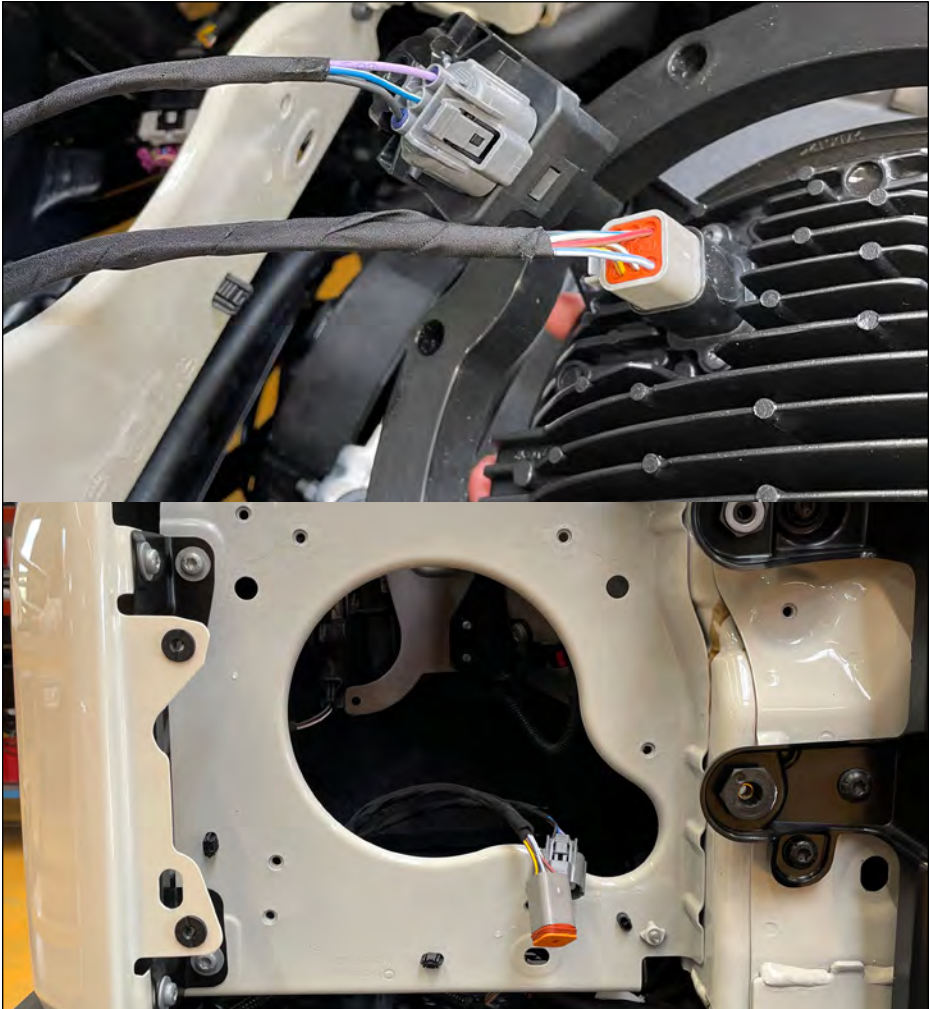
Distance nut (4x)	Replace the nuts on the base bracket with distance nuts and tighten to 85 Nm.
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2. ASSEMBLY



Remove the right headlight cover and the headlight bracket.

2. ASSEMBLY



Remove the headlight. Unplug both connectors from the headlight and place the headlight aside.

2. ASSEMBLY



Remove the casing of both central PDC sensors.

2. ASSEMBLY



Cut the cable using side cutters.

2. ASSEMBLY



Extend each of the three 0.35 mm² wires by approximately 11 cm using six solder connectors per wire.

2. ASSEMBLY



Wrap the cable with suitable tape.

2. ASSEMBLY



Remove the clips between the extended PDC sensors.

2. ASSEMBLY



Unscrew the underride guard.

2. ASSEMBLY



Unscrew the cap nut from the ground point.

2. ASSEMBLY



Mounting base
(1x)

Place the mounting base onto the four spacer nuts. Thread the PDC wiring harness through the designated holes.

2. ASSEMBLY



Reinsert the front left PDC sensor into its holder.

2. ASSEMBLY



Flange nut M12x1,5 (4x)	Tighten the flange nuts to 85 Nm.
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2. ASSEMBLY



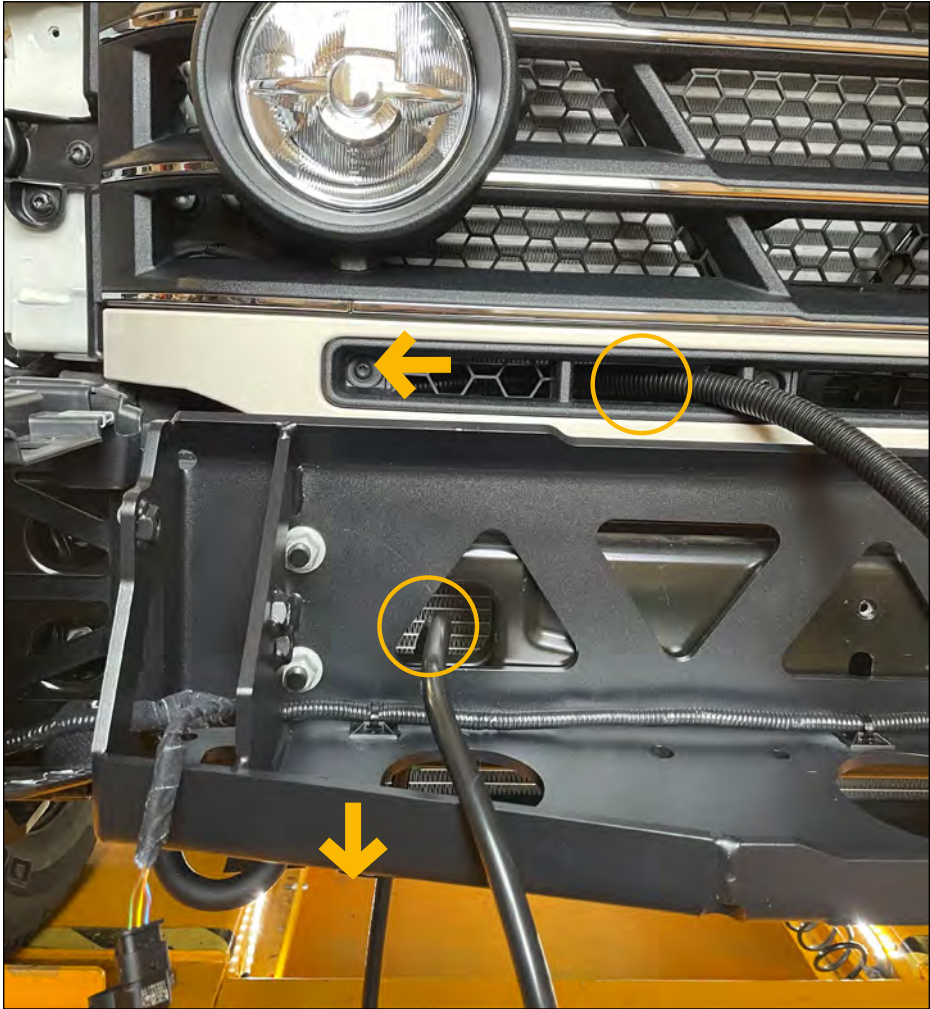
Fasten the cable harness using suitable mounting material.

2. ASSEMBLY



Remove the plastic grille.

2. ASSEMBLY



Thread the Warn Zeon 10 winch cables through the holes. (Cable routing instructions start on page 35)

2. ASSEMBLY



Install the winch.

2. ASSEMBLY



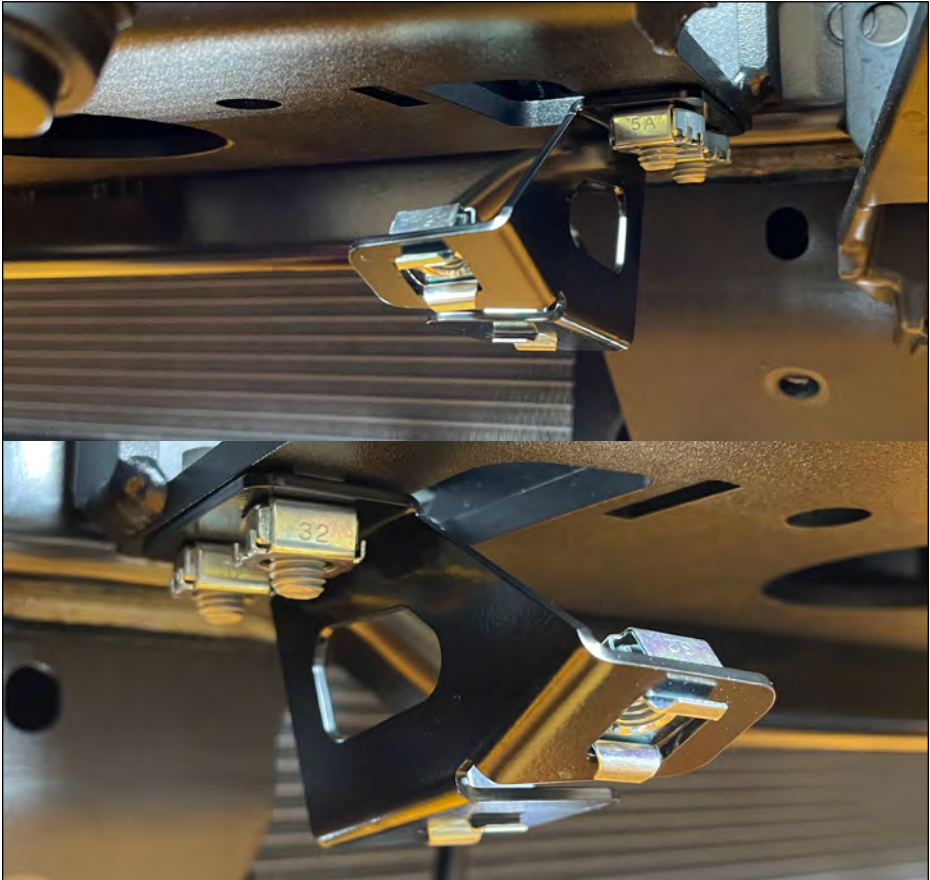
Screw M10x35 (2x)	Secure the winch on the right and left sides with 2x M10x35 screws, tightening to 50 Nm.
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2. ASSEMBLY



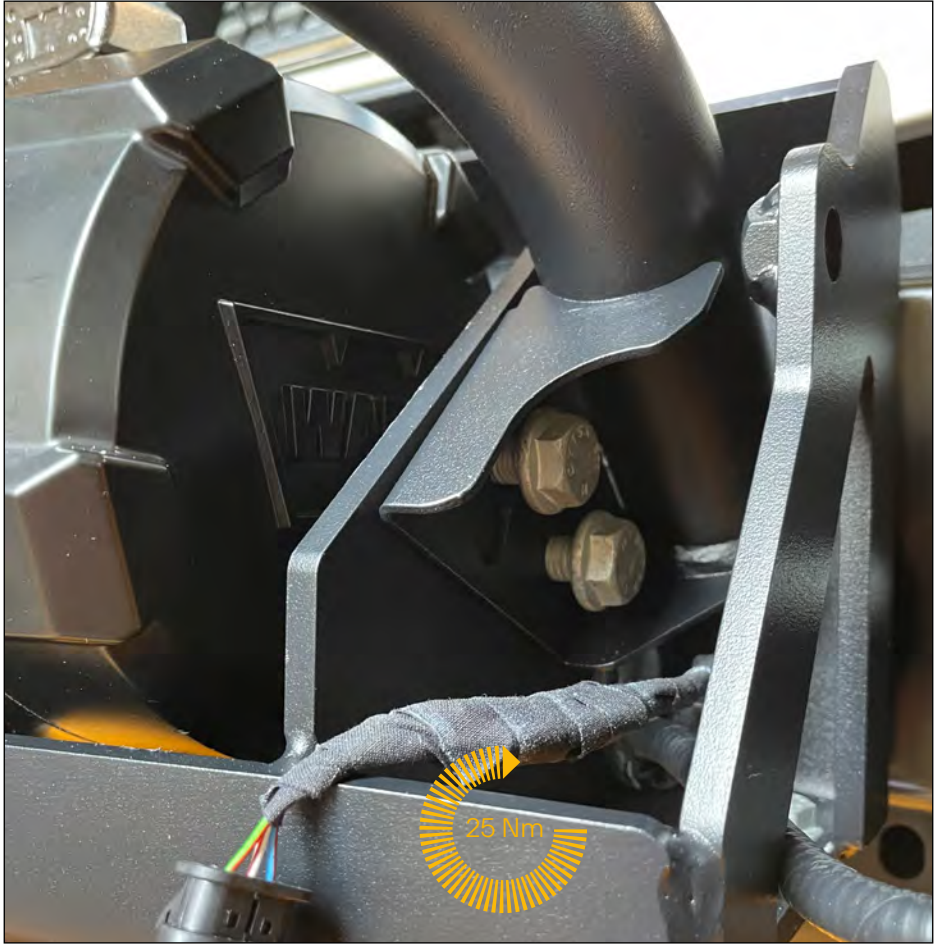
Screw M10x35 (2x)	Fasten the fender bracket with 2x M10x35 screws.
Fender bracket (1x)	

2. ASSEMBLY



Screw M8x20 (4x)	Bolt and tighten the left and right fender brackets with 4x M8x20 screws.
Right fender bracket (1x)	
Left fender bracket (1x)	

2. ASSEMBLY



Cross tube (1x)	Bolt the cross tube on the right and left sides with 2x M10x20 bolts each and tighten to 25 Nm.
Screw M10x20 (4x)	

2. ASSEMBLY



Cut the ground cable to length for the grounding point. Ensure proper routing and avoid tension. Attach a 35 mm² M8 cable lug with heat shrink tubing.

2. ASSEMBLY



Refit the cable using a cap nut.

2. ASSEMBLY



Guide the positive wire behind the vertically mounted cable.

2. ASSEMBLY



Cable routing, see image.

2. ASSEMBLY



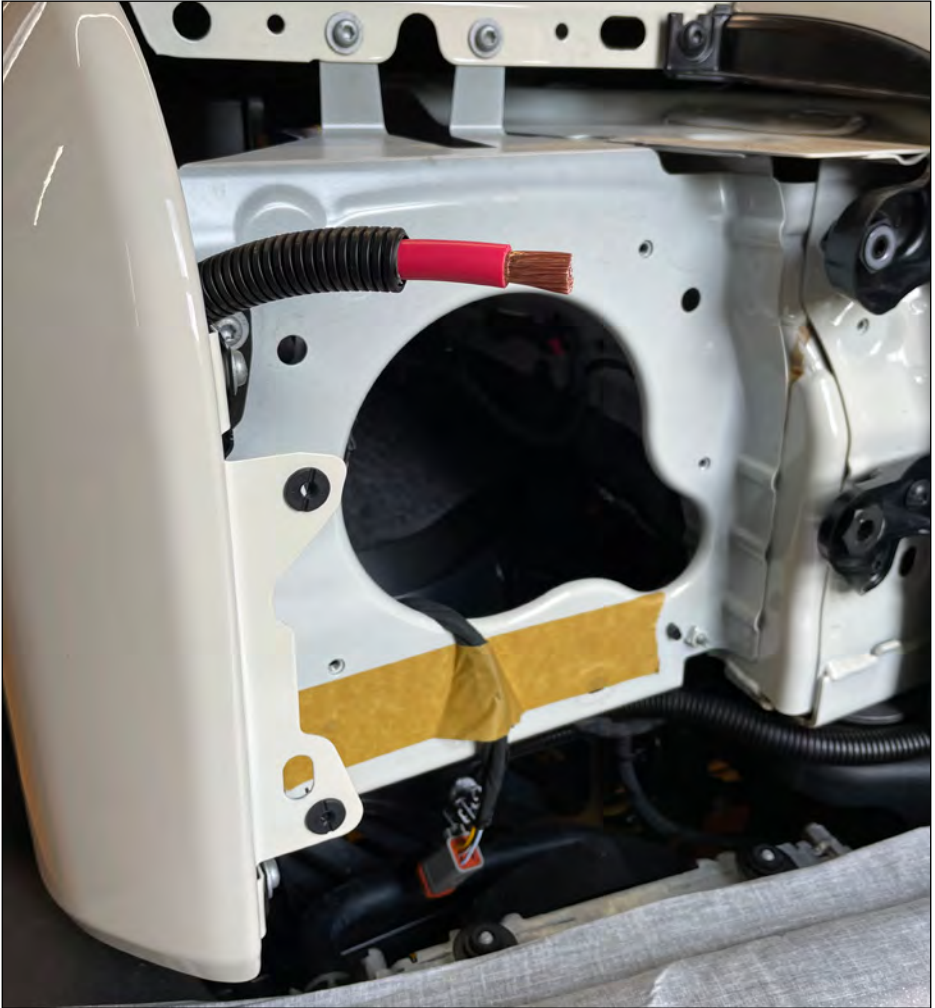
Cable routing, see image.

2. ASSEMBLY



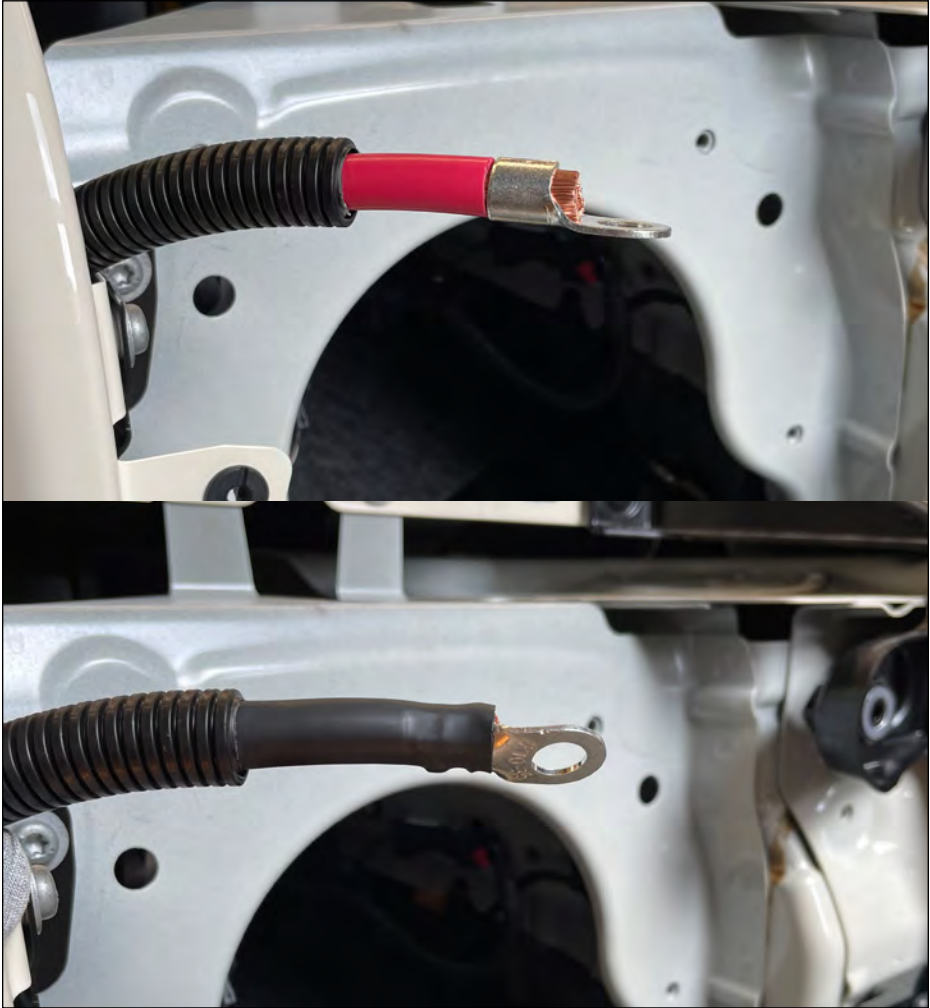
Cable routing, see image.

2. ASSEMBLY



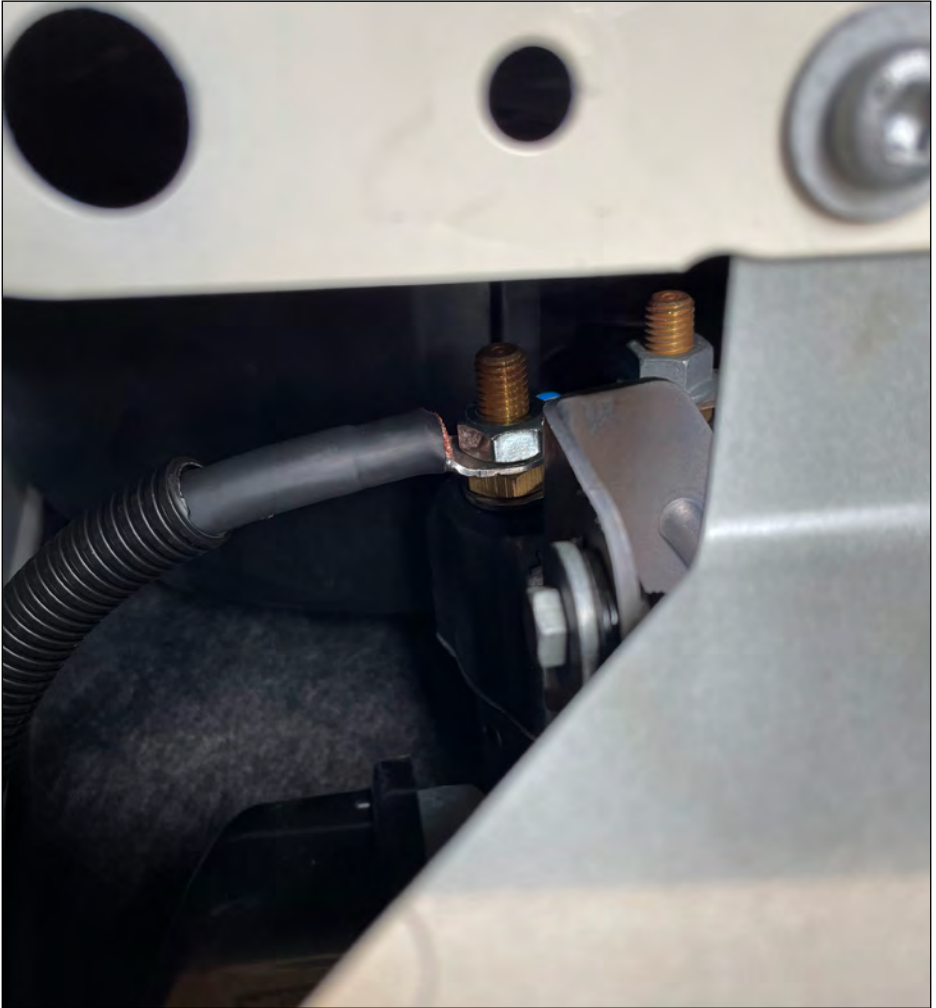
Shorten the cable to the required length for the relay mounting point.

2. ASSEMBLY



Attach a 35 mm² M10 cable lug and heat shrink tubing.

2. ASSEMBLY



Attach the cable lug to the relay using an M10 nut.

2. ASSEMBLY



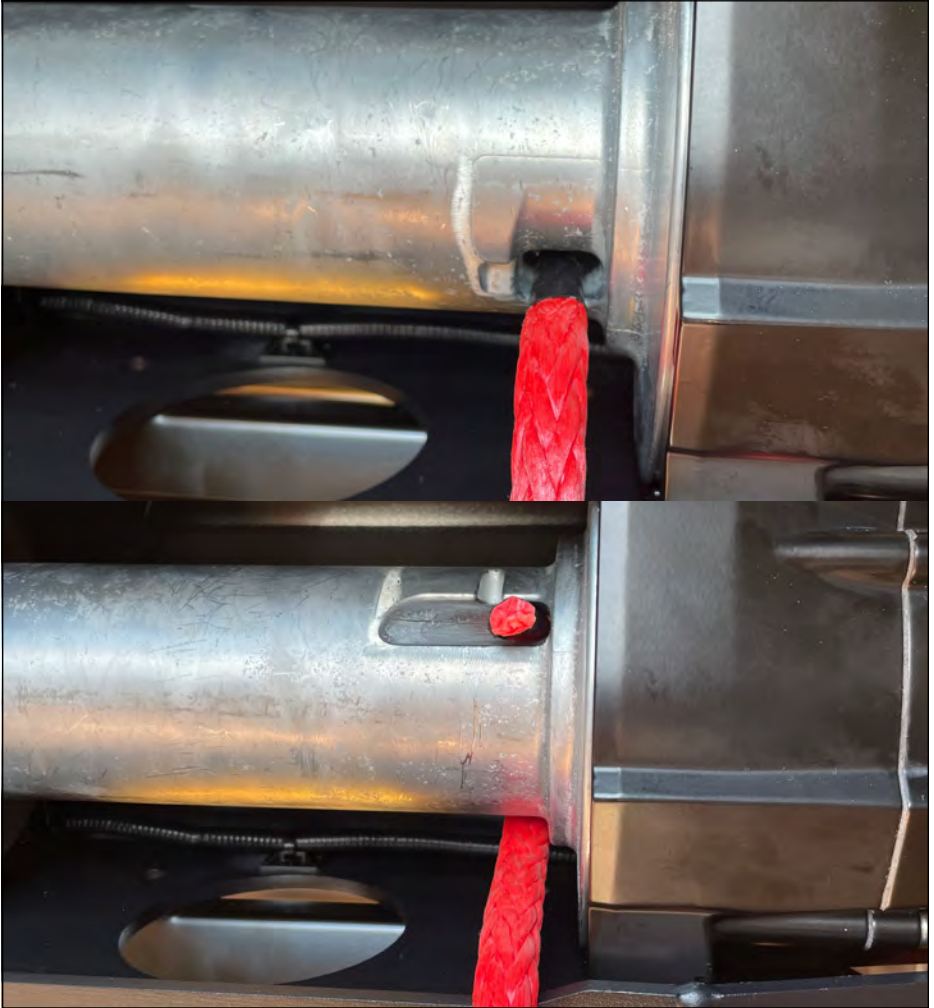
Fix the positive cable using suitable mounting materials.

2. ASSEMBLY



Unwind the rope and feed the end through the fairlead from front to back.

2. ASSEMBLY



Pass the rope through the hole as shown.

2. ASSEMBLY



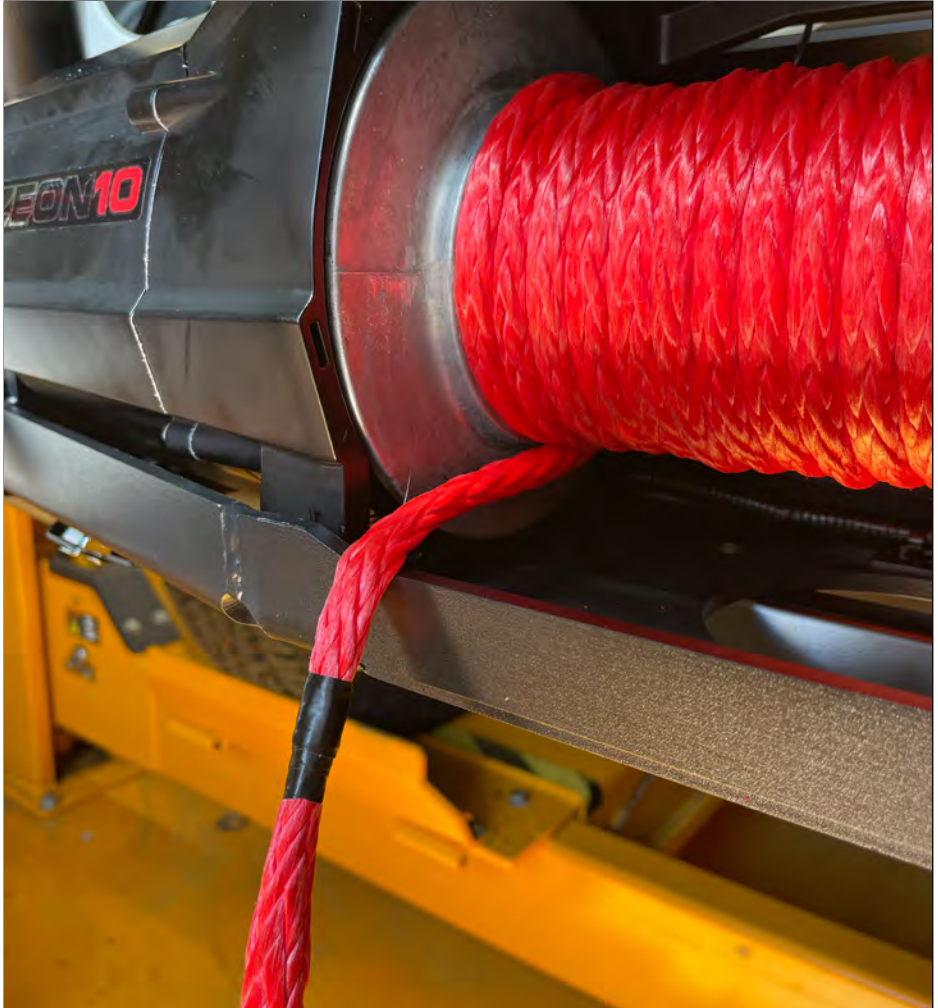
Wrap the rope around the wedge and insert it as shown, ensuring the rope sits securely.

2. ASSEMBLY



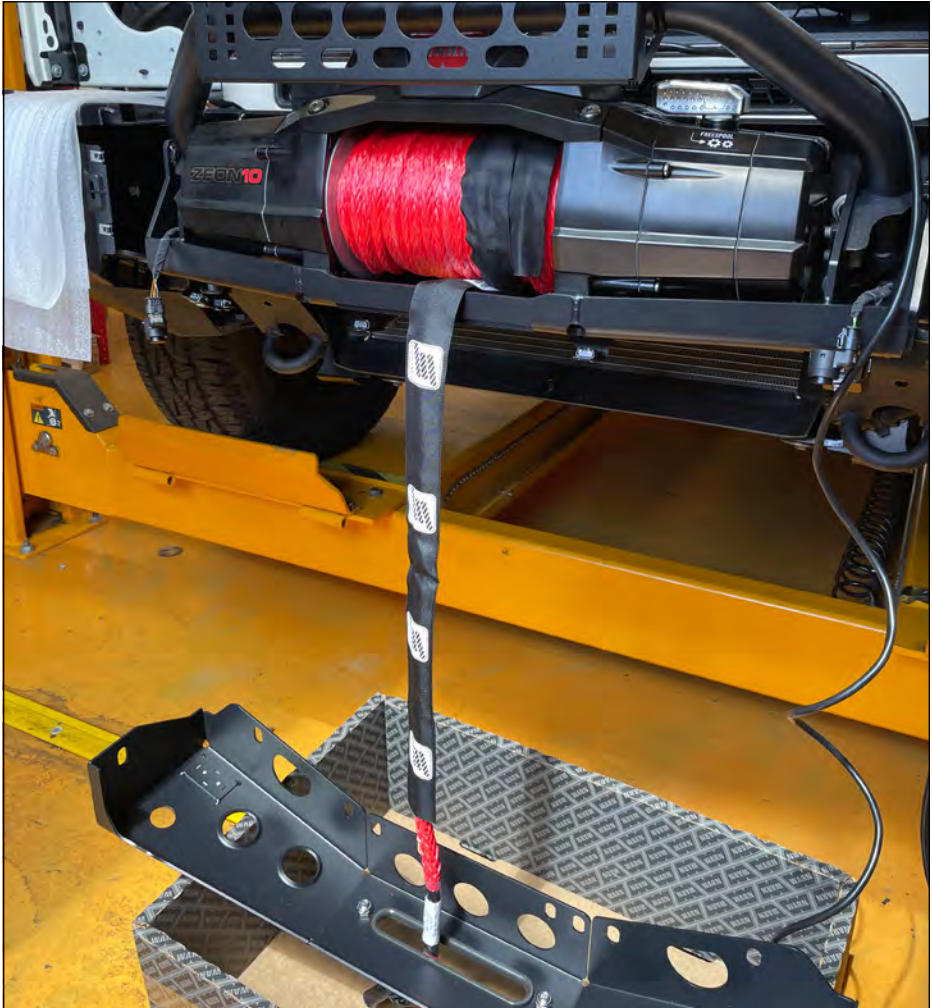
Plug the supplied remote control into the winch.
Start the vehicle, engage the handbrake, and set the transmission to neutral. (500 A switch – EXT4).

2. ASSEMBLY



Mark the rope after one layer.

2. ASSEMBLY



Roll the rope up almost entirely.

2. ASSEMBLY



Mount the PDC housing and insert the PDC sensors into the winch cover.

2. ASSEMBLY



Winch cover (1x)	Mount the cover with 6 M10x20 screws, tightened to 25 Nm.
Screw M10x20 (6x)	

2. ASSEMBLY



Fender (1x)	Fasten the fender using six M8x16 screws. After that, mount the skid plate.
Screw M8x16 (6x)	

2. ASSEMBLY



Attach the rope to the tow hook. Tighten the rest of the rope.

2. ASSEMBLY



Insert 4 cage nuts and securely fasten the license plate holder.

2. ASSEMBLY



Plug in and screw in the headlight. Install the headlight bracket and headlight bezel.

2. ASSEMBLY



Install the plastic holders.