

4MFoundry Moto Kit Assembly Instructions

CAUTION

Please read through instructions carefully before installing. Use anti-seize lubricant on all stainless steel hardware and be careful not to under or over tighten. Failure to do so may result in damage to your parts. All hardware should be tightened snug to 5nm/43in-lbs unless told otherwise. This kit should be installed by a knowledgeable mechanic. 4MFoundry is not liable for damage or injury as a result of improper installation or use.

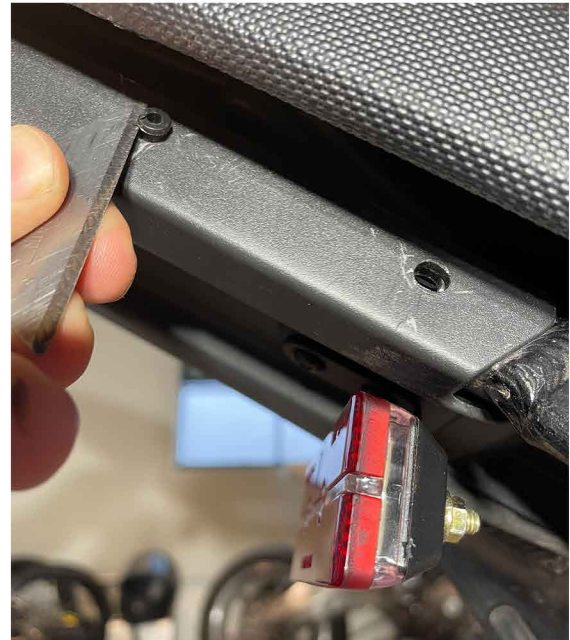
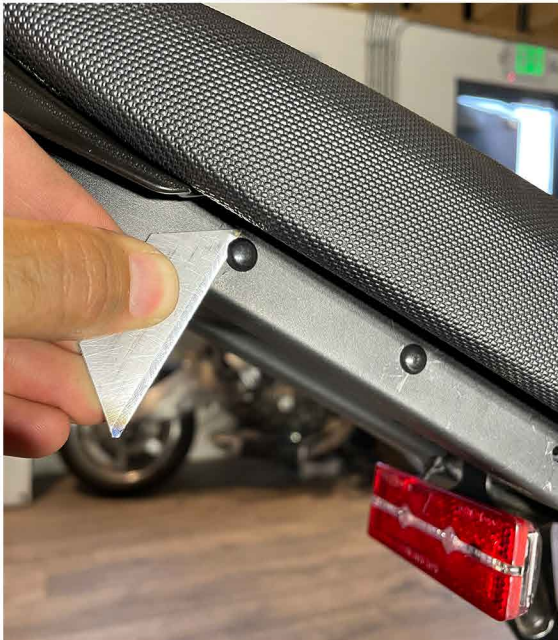
TOOLS REQUIRED

- Razor Blade
 - Screwdriver
 - Phillips #2
 - Needle nose pliers
 - Socket wrench or standard wrench
(*socket recommended*)
 - 10mm
 - Hex Keys
 - 3mm
 - 4mm
 - 5mm
 - Anti-seize lubricant
(*apply to all stainless hardware to avoid damaging your bike*)
- (Optional)
- Gaffer's tape/electrical tape
 - Heat gun
 - Soldering kit



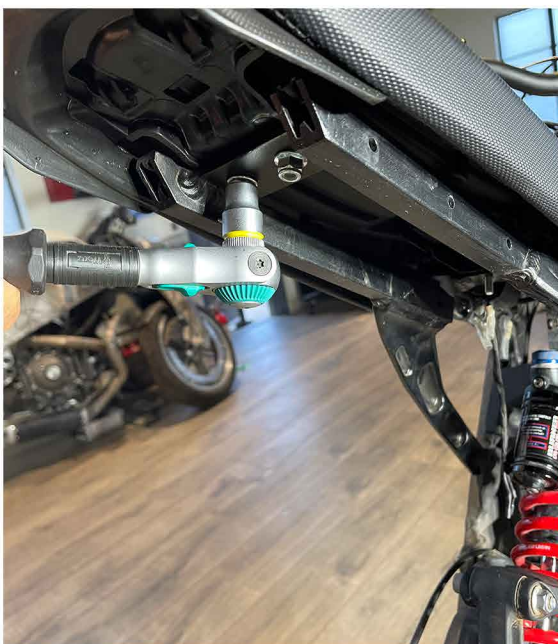
Stock seat removal

- 1 Remove battery.
Remove all 8 plastic pins from the shroud beneath the seat. The pins are two pieces. First remove the cap, then the main body prying up with a razorblade.



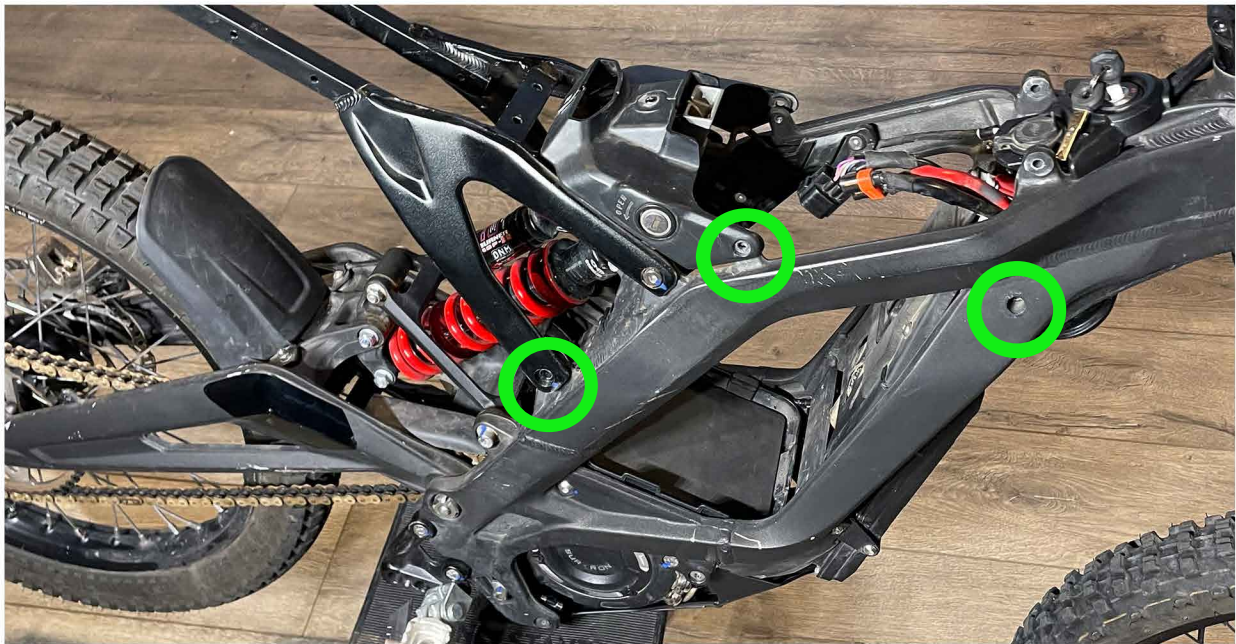
Video example: <https://youtu.be/1ARQu5nJlnI?t=193>

- 2 Remove all four seat retaining nuts, then remove seat.

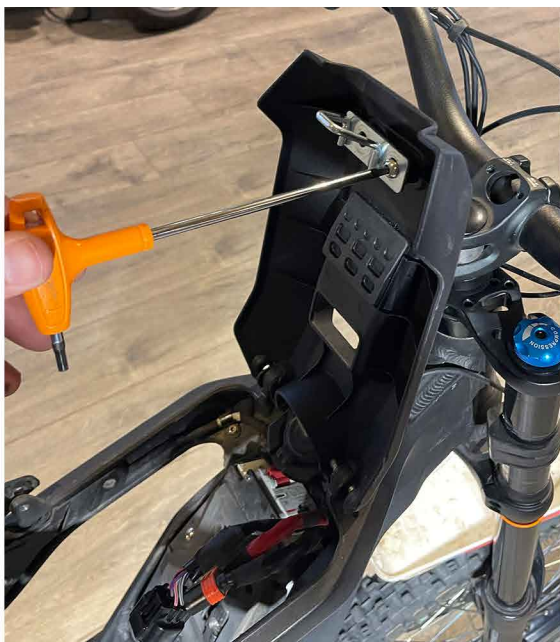


Stock hardware removal

- 3 Remove all six circled bolts from both sides.



- 4 Remove hatch lock.

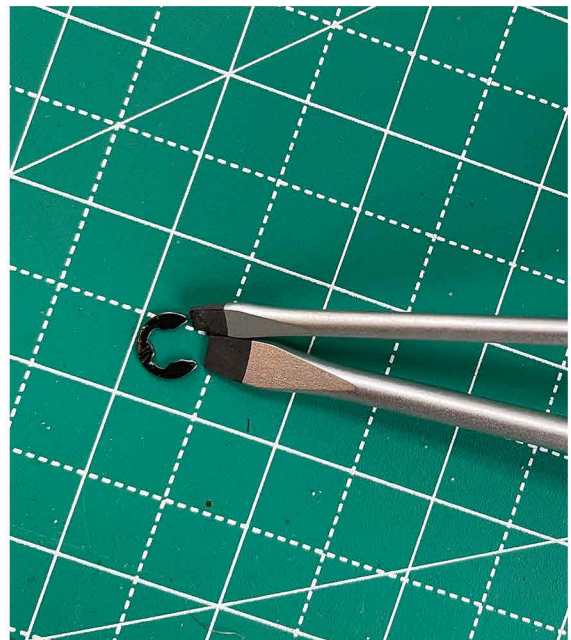


Stock hatch removal

- 5 Remove hatch C-clips with pliers.



Or push off using 2 screwdrivers.

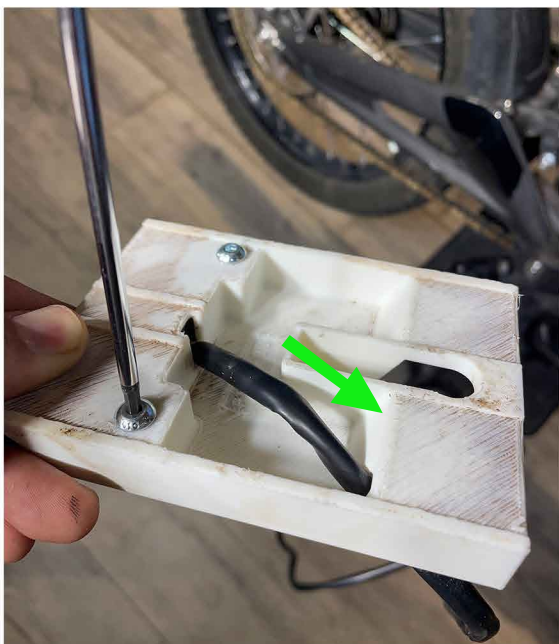


4MF Moto Kit Install

- 6 Press two Clip-Nuts on to sub-frame as shown aligning the holes.



- 7 Feed wires through guide holes as shown. Fasten taillight to seat release using two M5x10 screws. (Do not over tighten)



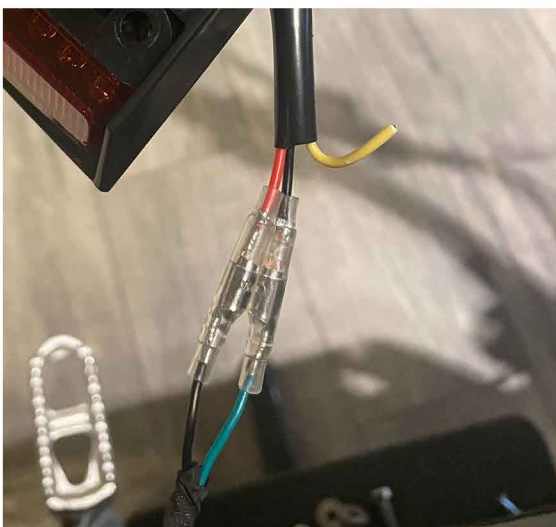
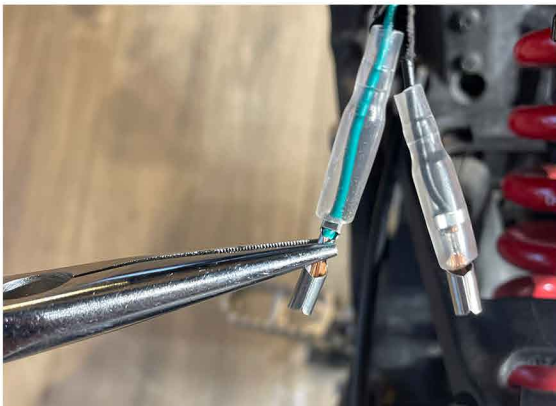
4MF Moto Kit Install

8 Connect the 4MF taillight wires.

We recommend watching this video before proceeding

https://www.youtube.com/watch?v=r7GIDBge_WU&ab_channel=MakeItEasyMechanic

- 1) DISCONNECT BATTERY.
- 2) Clip off stock connectors from the stock taillight wire.
- 3) Prep wires by sliding on the provided clear covers.
- 4) Crimp the provided connectors referring to the diagram below and connect wires.
- 5) We recommend taping off connectors for protection.



Wire Connection Guide

TAILLIGHT	STOCK
Red	Black
Black	Green
Yellow (tape off)	

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- 9 Insert aluminum spacers through the sub-frame shroud and into lower sub-frame on both sides. Making sure the shroud is on the outside of the sub-frame.

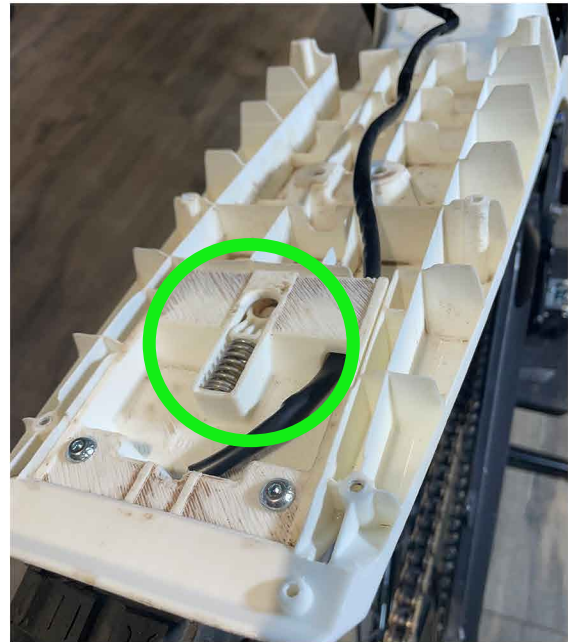


Once both spacers are in rest the shroud on the rear wheel.



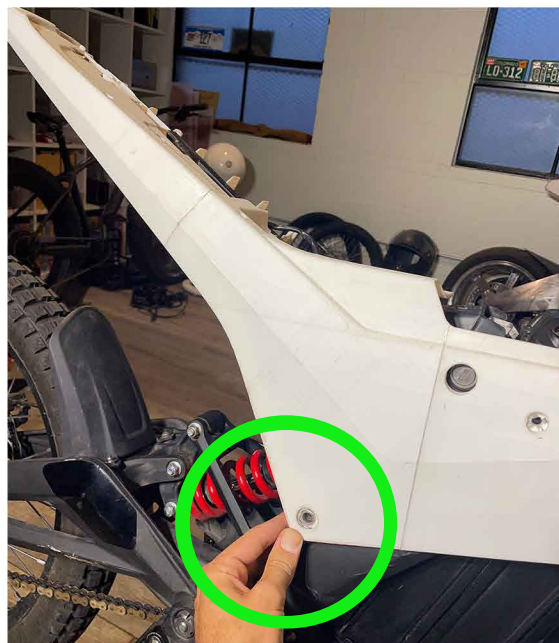
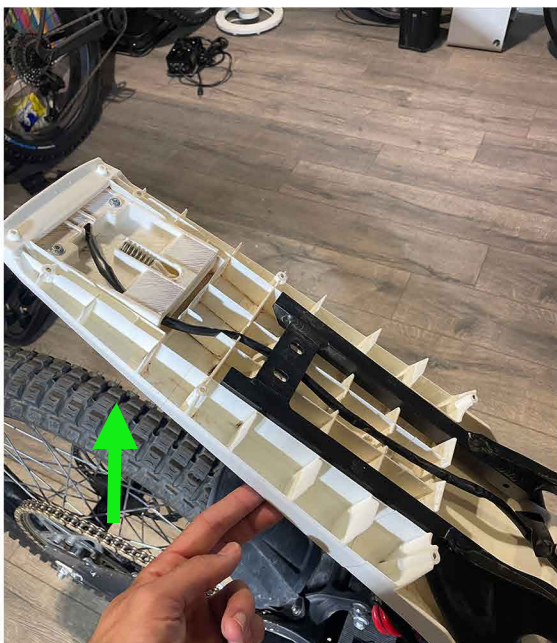
4MF Moto Kit Install

- 10 Insert seat release/taillight into the sub-frame shroud and place spring as shown. Guide wire through cutouts.



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- 11 Press sub-frame shroud up to sub-frame. Install right side panel onto bike. Start by capturing the with sub-frame spacer as shown.



Flex the tail end of the side panel over the sub-frame shroud. Repeat with the left side panel overlapping both panels at the middle and rear of the bike.



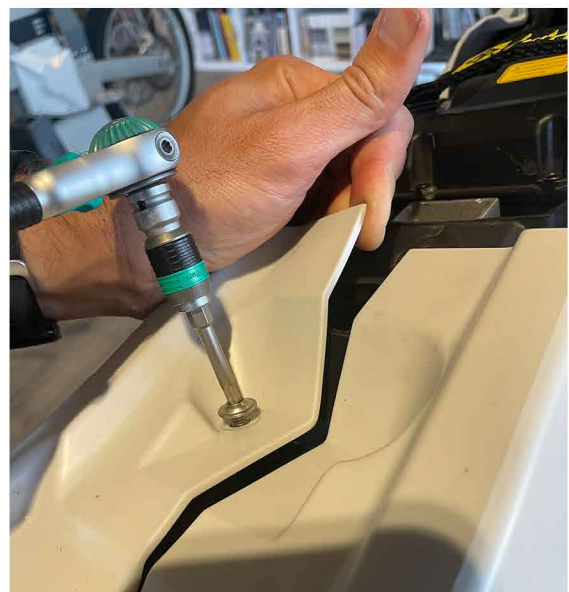
4MF Moto Kit Install

- 12 Using all six 1/2" black screws, fasten both side panels to sub-frame shroud. (Do not to over tighten)



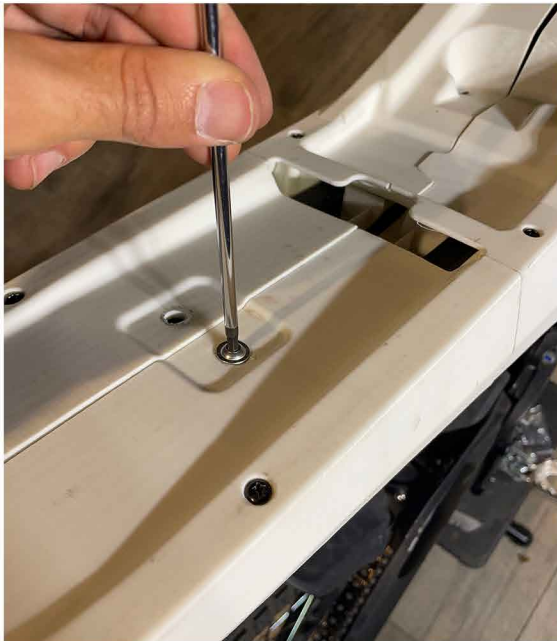
Apply Anti-seize lubricant to all bolts before installing!

- 13 Install two M6x20 bolts through both side panels as shown and thread into thwe clip-nuts. Move the panel as needed to allow the bolt to start into the threads.
Do not tighten yet!!! We will tighten all bolts on step 15.



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- 14 Install two M6x20mm bolts and nuts through sub-frame.



- 15 Install three bolts on side panels as shown.
- M6x50 bolt into front hole.
 - M6x20 into battery area hole.
 - M8x1.25" bolt into sub-frame **torqued to 20nm.**



Now tighten all hardware until snug. Do not overtighten. Overtightening will crush the plastic.

4MF Moto Kit Install

- 16 Install hatch with the two stock pins and two C-clips.



- 17 Attach lock connector with two M6x20 bolts and nuts. Adjust the lock connector position back and forth aligning with the lock until the hatch clicks closed with ease. Stack two foam pads next to lock connector.



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(Optional)

- 18 Insert tail and secure with two 5/8" black screws.



- 19 Attach front fender using zip ties. (see page 14 if you are installing an aftermarket headlight)



4MF Moto Kit Seat Install

20 The seat is attached in three places; rear, middle, and front. The middle (M) and forward (F) connections need to be connected at the same time.



Lay the seat flat on bike slightly back from the front connection. Press down on seat and slide forward (1) connecting (m) and (F). Then press down on the rear of the seat to click into place (2).

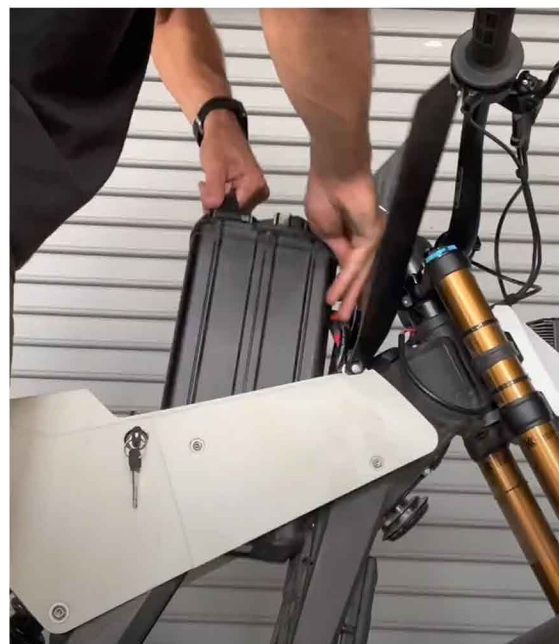


Seat/Battery Removal

- 21 To remove the seat, firmly press the taillight in while lifting up on the rear the seat. Once the seat is unlocked, slide the seat backwards and remove.



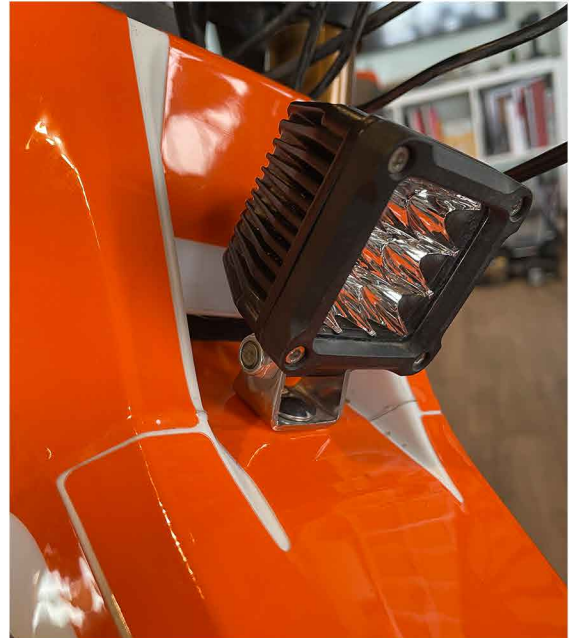
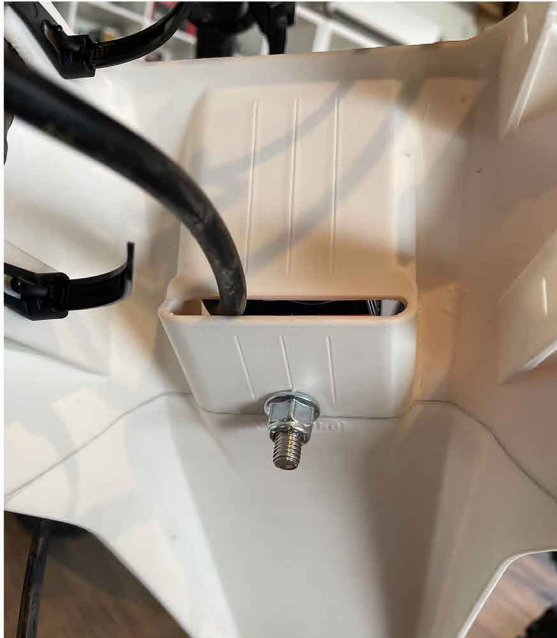
Open the hatch by pressing down firmly on top of the hatch above the lock connector with your left hand. At the same time turn the key to unlock the hatch. Disconnect the battery and remove.



Aftermarket Headlight

(Optional)

- 22 To add aftermarket headlight remove stock headlight.
Drill hole in fender for mounting.
Cut off stock connector and connect new headlight wires.



Visit our website 4mfoundry.com/RecommendedMods for links to our recommended 12 volt headlights.