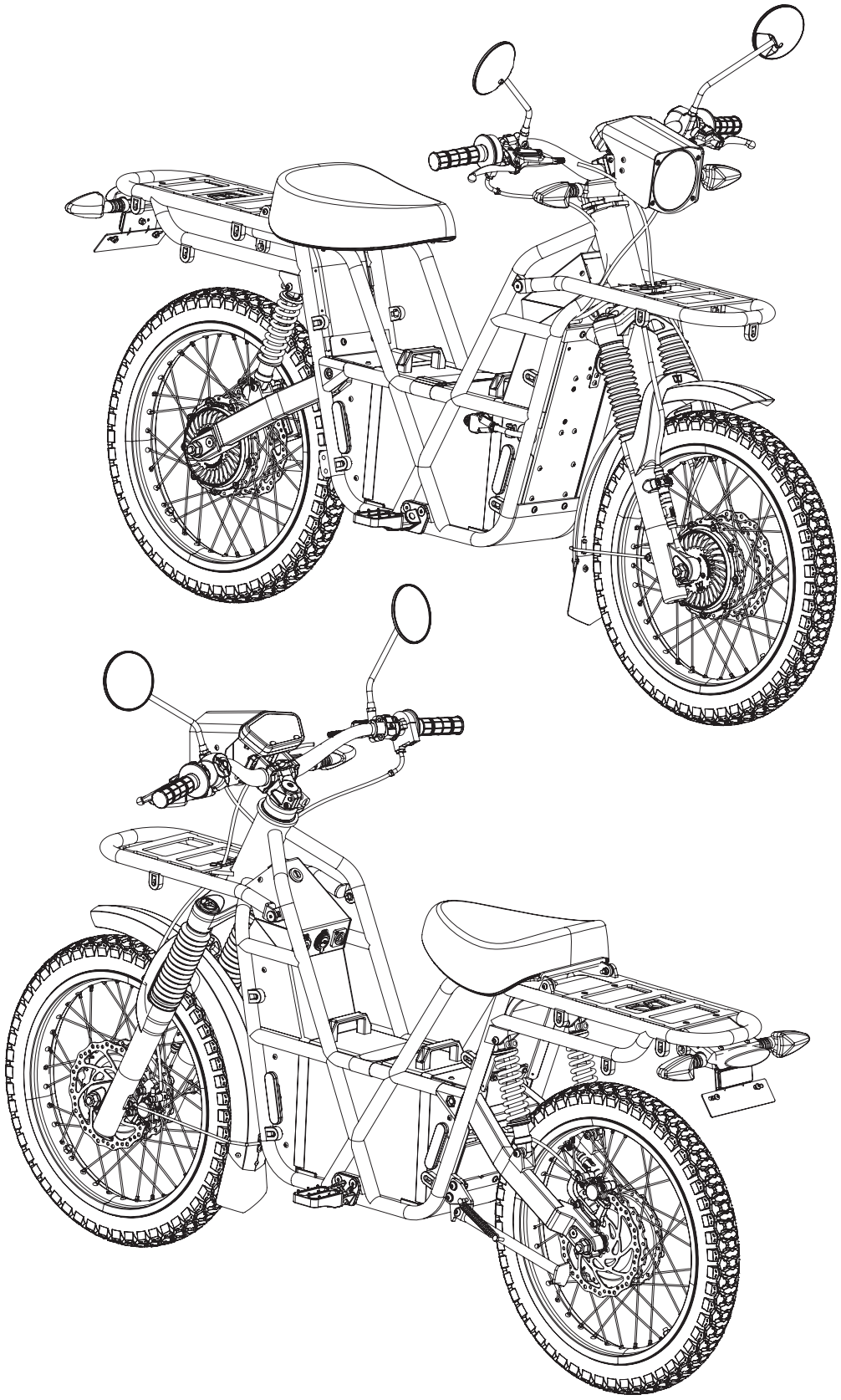
UBCO
THE UTILITY BIKE

2X2

# 2018 2x2 Dealer Part Identification Manual

# 2018 2x2 Production Manual

Revision 4.0



# Contents

## 1. Sub part and sub assemblies



## 2. Assembling parts into the frame



See next page

# Consumables


= Add grease

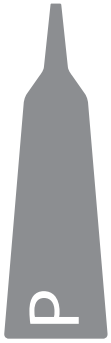

= Add loctite 243


= Add Grip Glue


= Add glue (Silicone based)


= Add anti-seize

Note: Wherever a stainless steel screw and stainless steel nyloc nut are used together, anti seize is to be used.




= Petroleum Jelly

# Tools

**Torx driver**
- T25
- T20

**Sockets**
- 5.5mm (long)
- 8mm (long)
- 10mm (long)

**Spanner**
- 5.5mm
- 8mm
- 10mm
- 13mm
- 17mm
- 21mm

**Allen keys (Hex Key)**
- 2mm
- 3mm
- 4mm
- 5mm
- 8mm

**Other**
- Philips head screw driver
- Press tool for Swingarm bearings
- Flush side cutters
- Rivet gun
- Drill with 1mm drill bit
- Long nose pliers
- Torque wrench

# Tool reference images

Flush side cutters

Rivet gun

Sockets

Spanners

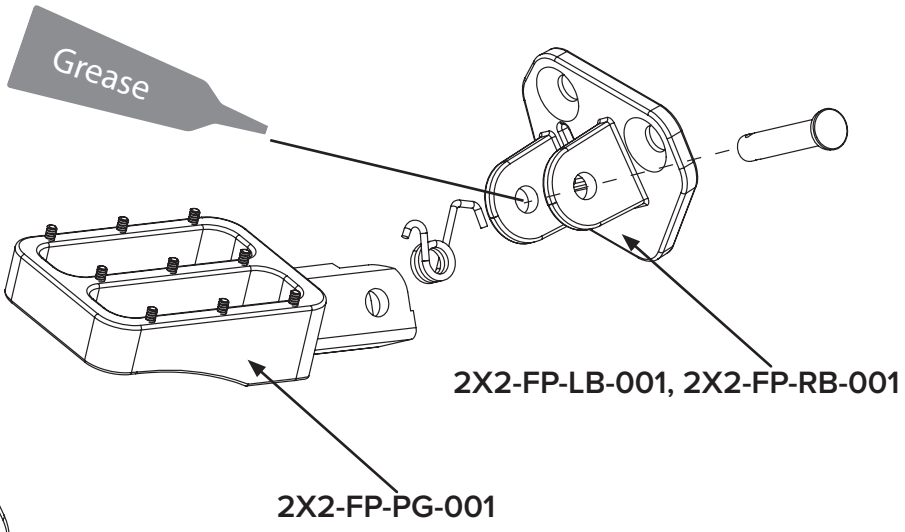
Torque wrench

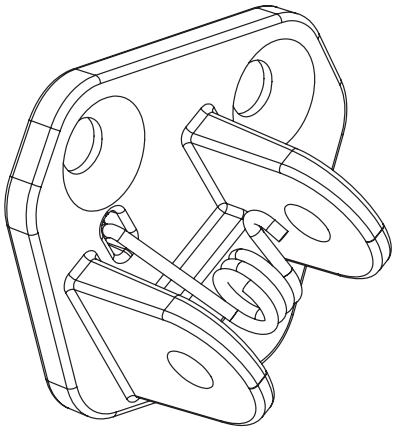
Long nose pliers

# 1. Sub parts and sub assemblies

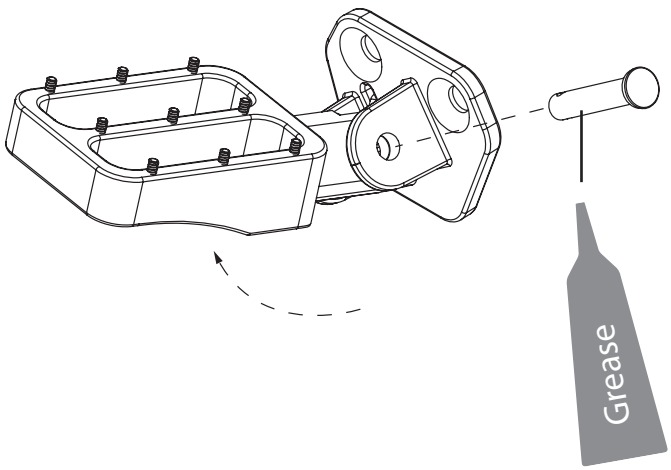
## 1.1 Foot Peg Assembly

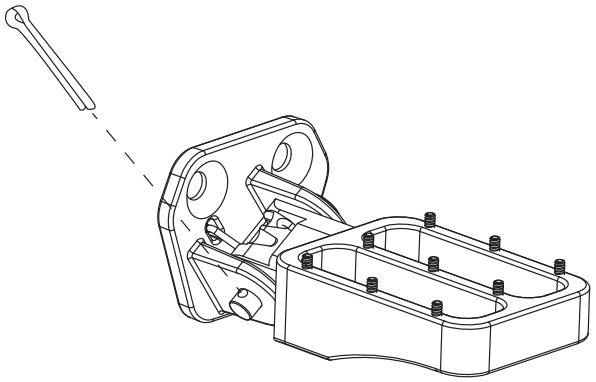
**Required parts:**
**- Foot Pegs (2X2-FP-PG-001)**
**- Foot Peg Pivot pin (comes with foot peg)**
**- Foot Peg Spring (comes with foot peg)**
**- Foot Peg Split pin (comes with foot peg)**
**- Foot peg brackets (2X2-FP-LB-001), (2X2-FP-RB-001)**



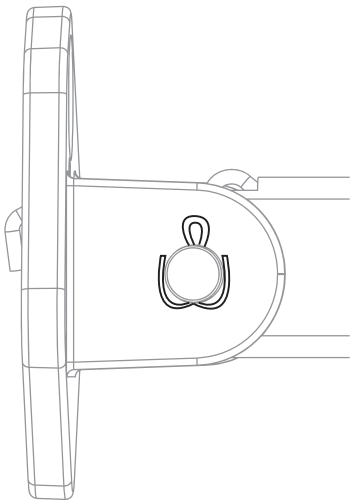
B. With the foot peg rotated up and slightly compressing the spring, insert the pivot pin.



C. Insert the split pin into the hole on the end of the pivot pint

D. Bend each leg of the split pin around the pivot pin as illustrated.



# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

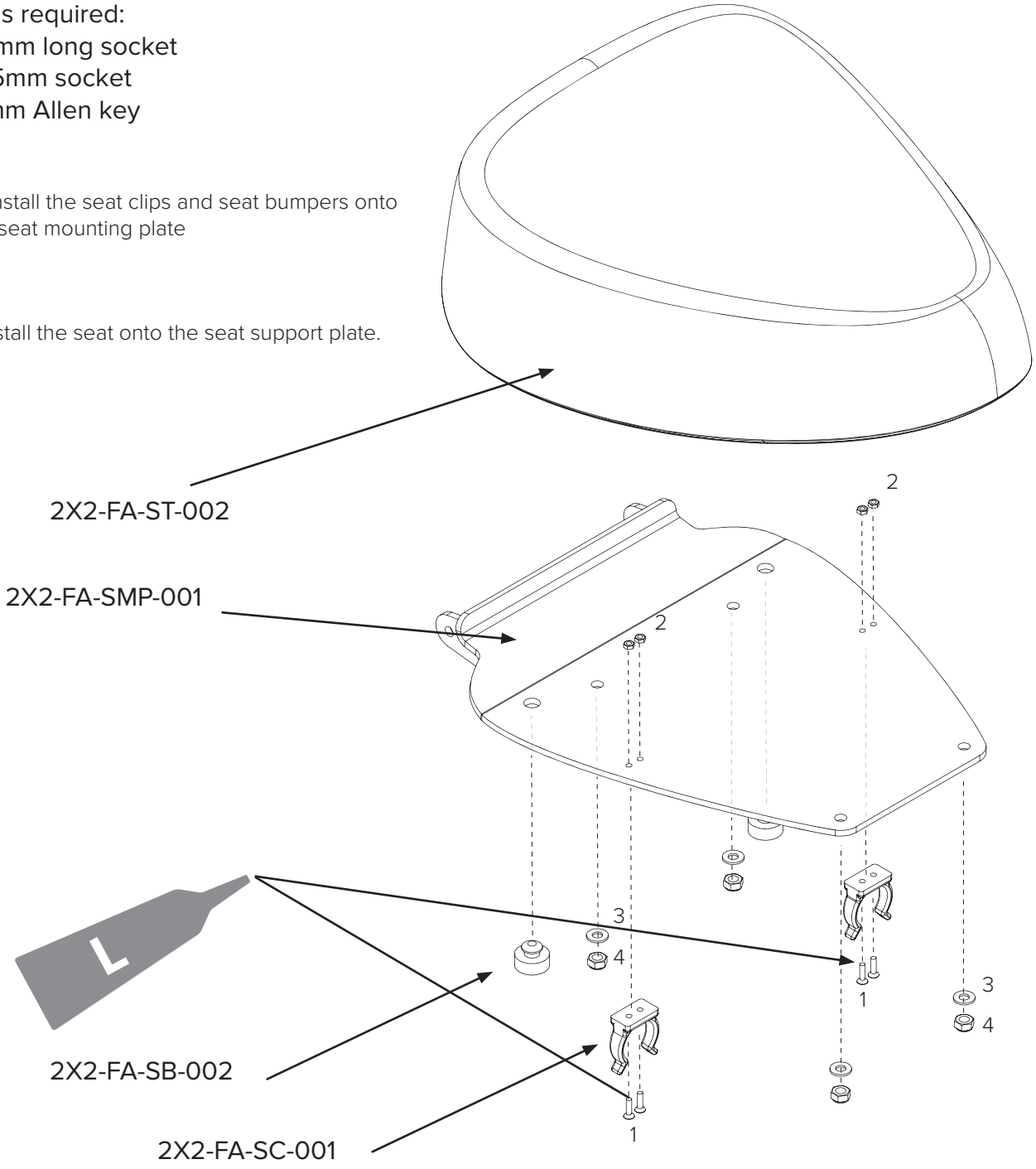
## 1.2 Seat assembly

Required parts:
- Seat (2X2-FA-ST-002)
- Seat Mounting plate (2X2-FA-SMP-001)
- Seat clips (2X2-FA-SC-001) x2
- Seat Bumpers (2X2-FA-SB-002) x2
- M3 x 12mm socket hex countersink x4 #1 Torque to 1 Nm
- M3 nyloc nut x4 #2
- M6 x 12.5 x 1.2 flat washers x 4 #3 Torque to 3 Nm
- M6 nyloc nut x 4 #4

Tools required:
- 10mm long socket
- 5.5mm socket
- 2mm Allen key

A. Install the seat clips and seat bumpers onto the seat mounting plate

B. Install the seat onto the seat support plate.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Seat upholstery in new condition

4. Fasteners torqued correctly

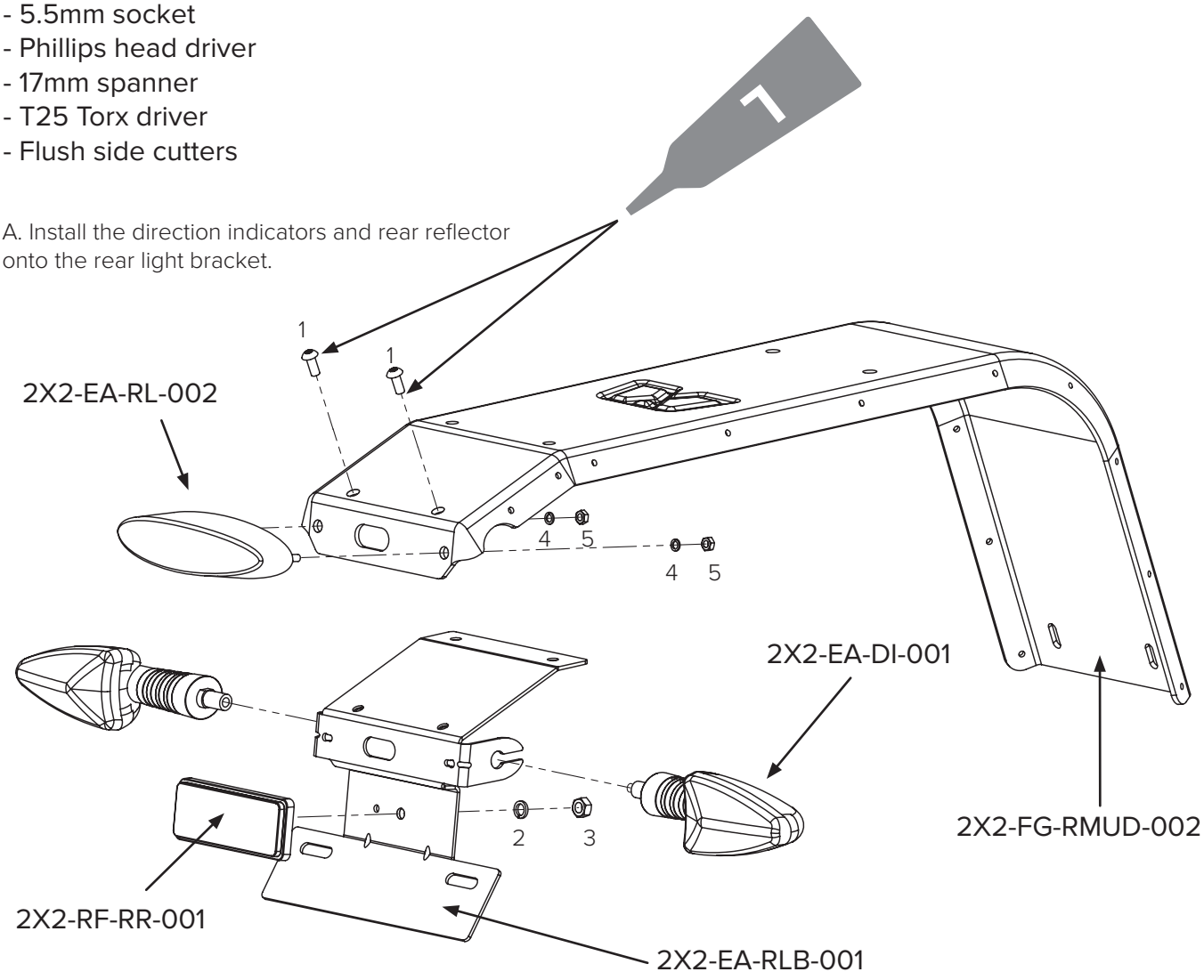
## 1.3 Rear mud guard assembly

Required parts:
- Rear Mud guard (2X2-FG-RMUD-002)
- Rear Light Bracket (2X2-EA-RLB-001)
- Direction indicators (2X2-EA-DI-001) x2
- Rear reflector (2X2-RF-RR-001)
- Rear Light (2X2-EA-RL-002)
- Rear light loom (2x2-EL-RLL-002)
- Cable ties 2.5mm x 100mm x 5

| | | |
|---|---|---|
| - M5 x 10 Torx button head screw x2 | #1 needs loctite | Torque to 3Nm |
| - M5 flat washer | #2 | |
| - M5 Nyloc nut | #3 | Torque to 1.5 Nm |
| - M3 Spring washer x2 | #4 | |
| - M3 Nut x2 | #5 | Torque to 1 Nm |

Tools required:
- 5.5mm socket
- Phillips head driver
- 17mm spanner
- T25 Torx driver
- Flush side cutters

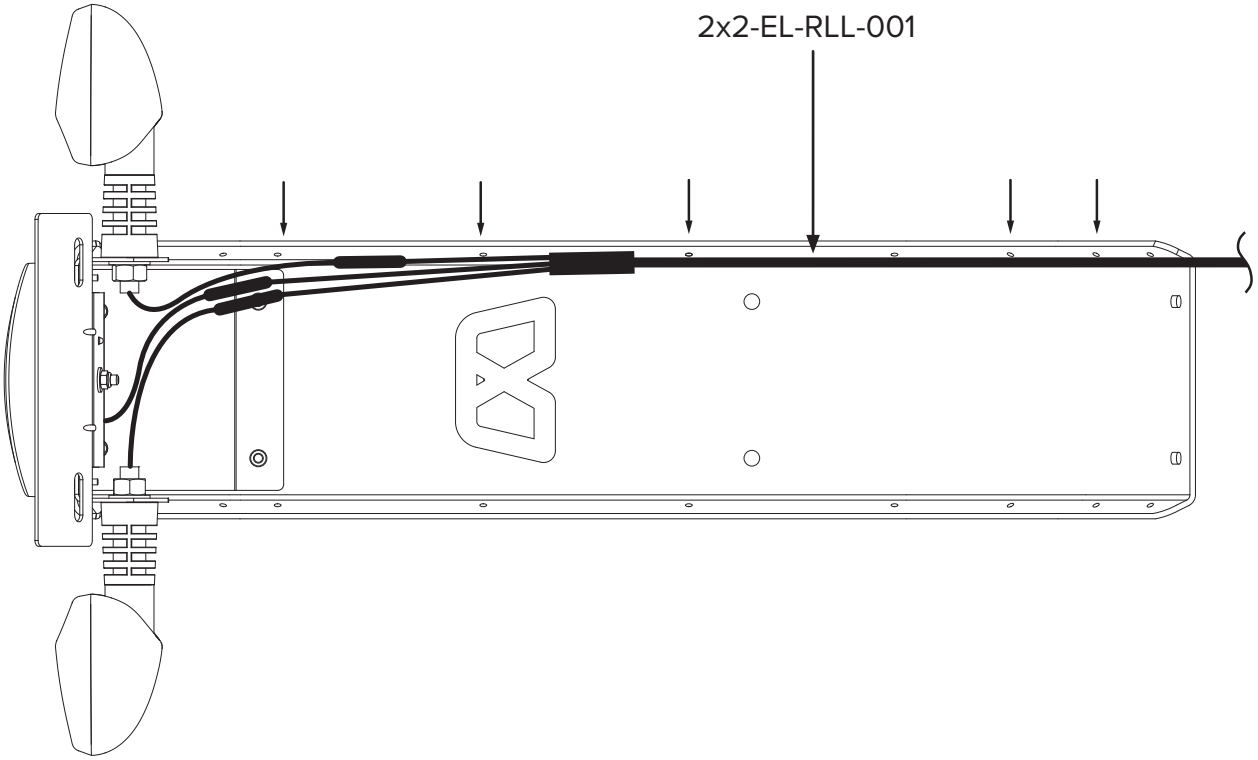
A. Install the direction indicators and rear reflector onto the rear light bracket.




B. Install the rear light bracket to the rear mud guard and fasten with the two M5 Torx screws.

C. Install the rear light through both the rear mud guard and rear light bracket, fasten at the back with washers and nyloc nuts.

D. Install the rear light loom and fasten with cable ties




# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

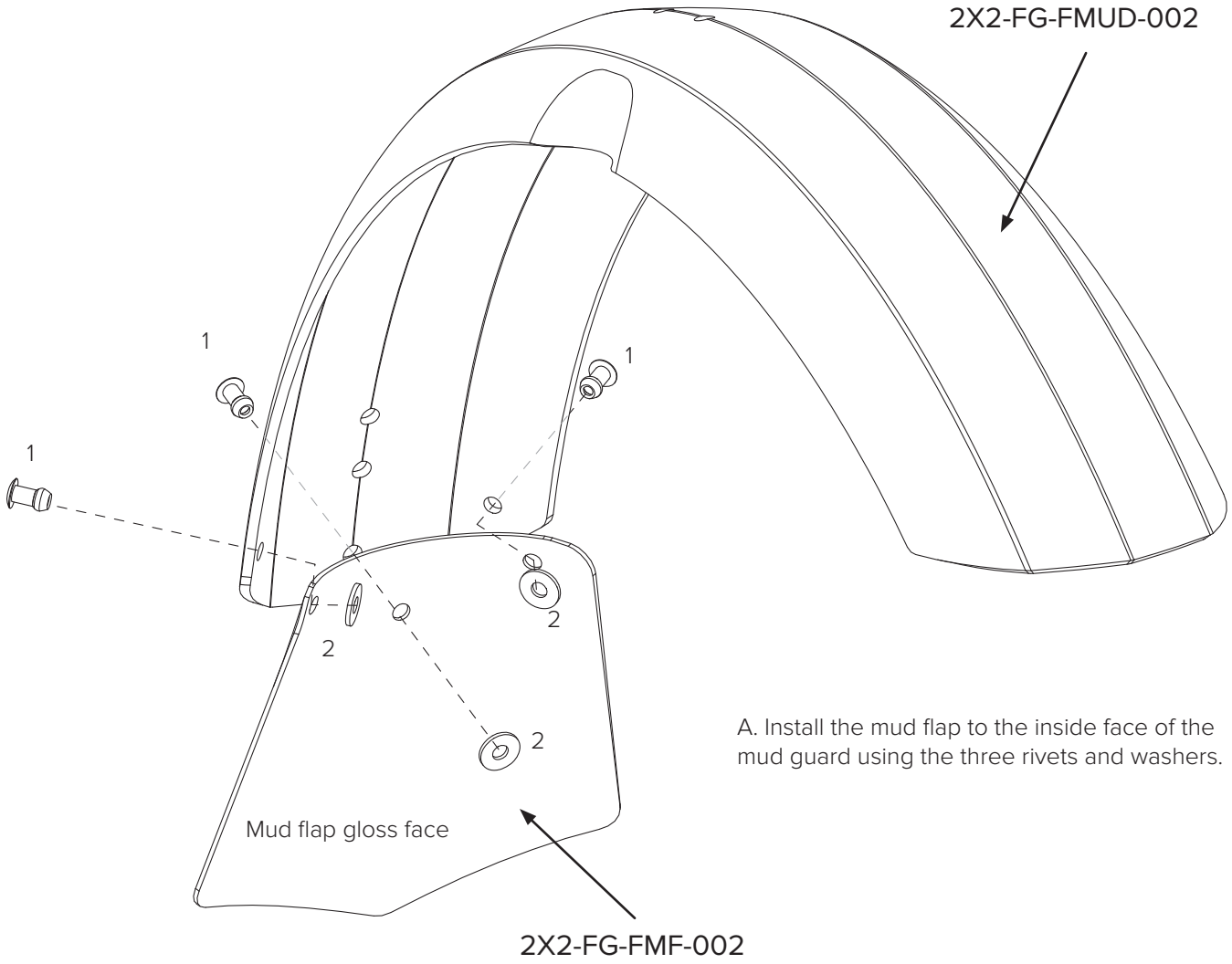
3. Fasteners torqued correctly

4. Cabling secured

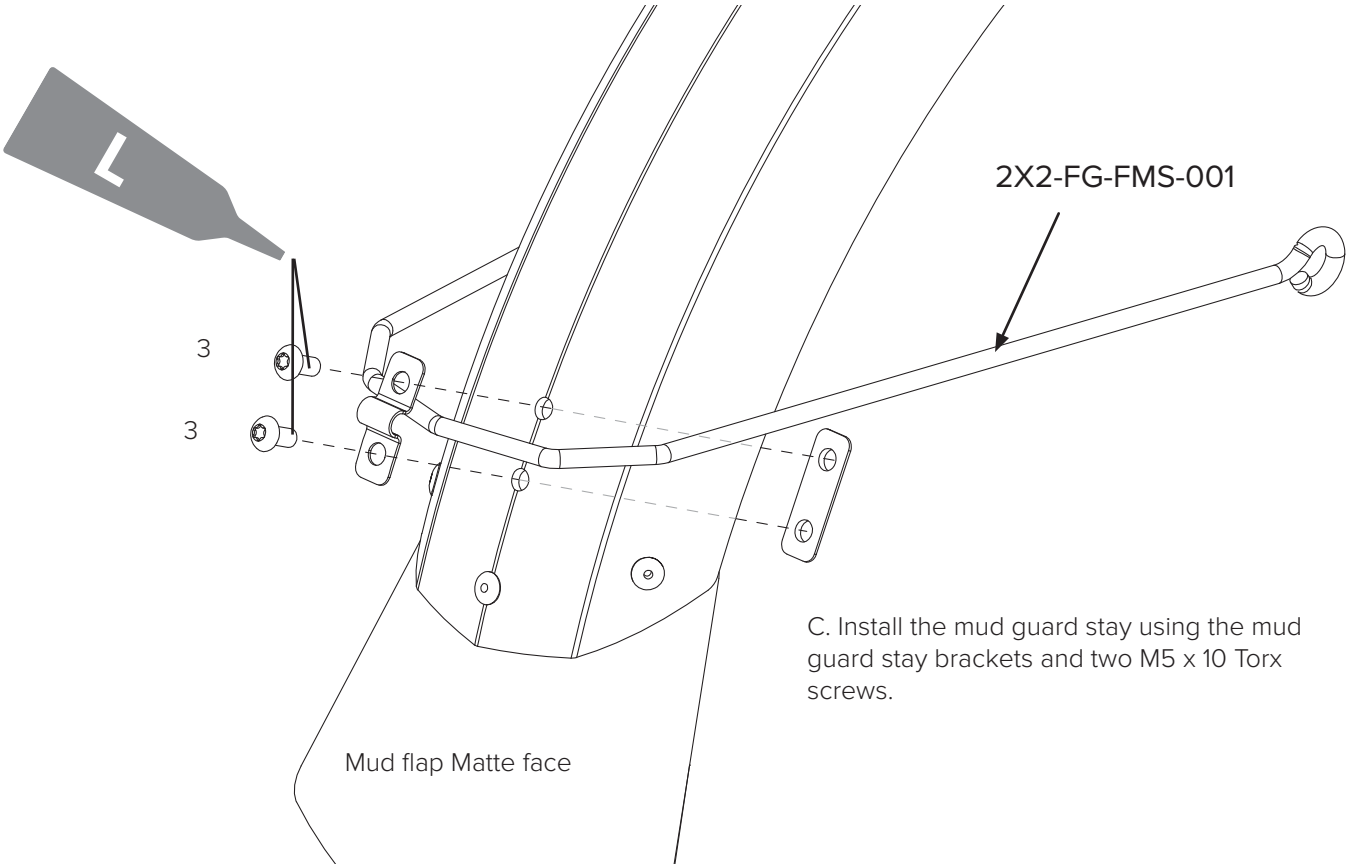
## 1.4 Front mud guard assembly

Required parts:
- Front Mud guard (2X2-FG-FMUD-002)
- Front Mud flap (2X2-FG-FMF-002)
- Front mud guard stay (2X2-FG-FMS-001)
- Front mud guard stay bracket A (2X2-FG-FMS-001)
- Front mud guard stay bracket B (2X2-FG-FMS-001)
- 5 x 12 ALU/SST Black blind rivets x3 #1
- M5 x12.5 x 1.2 flat washers x3 #2
- M5 x 10mm Torx button head screw x2 #3 needs loctite Torque to 3 Nm

Tools required:
- Rivet gun
- T25 Torx driver




A. Install the mud flap to the inside face of the mud guard using the three rivets and washers.




# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners torqued correctly.

## 1.5 ECU assembly

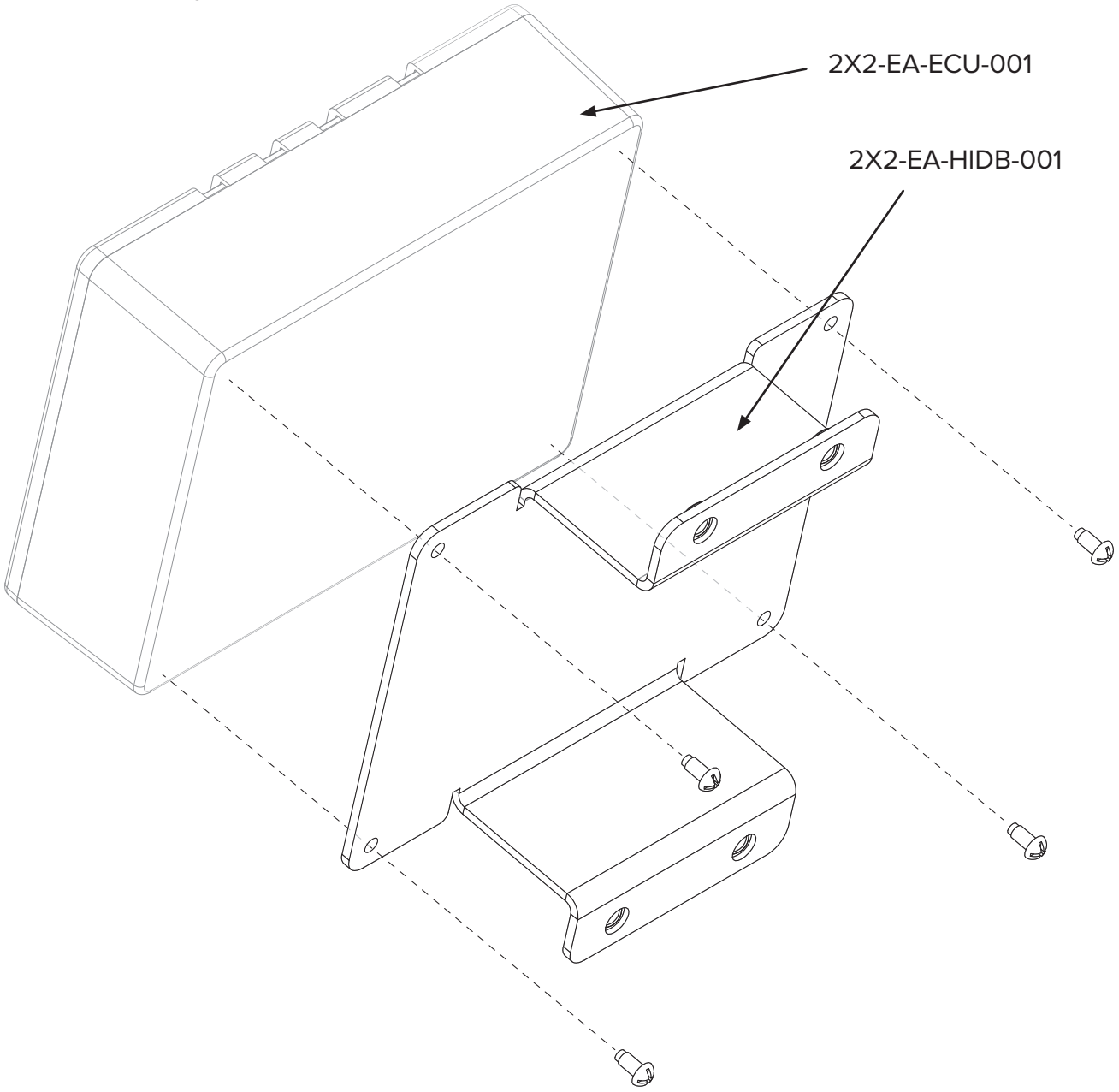
### 1.5.1 ECU mount bracket install

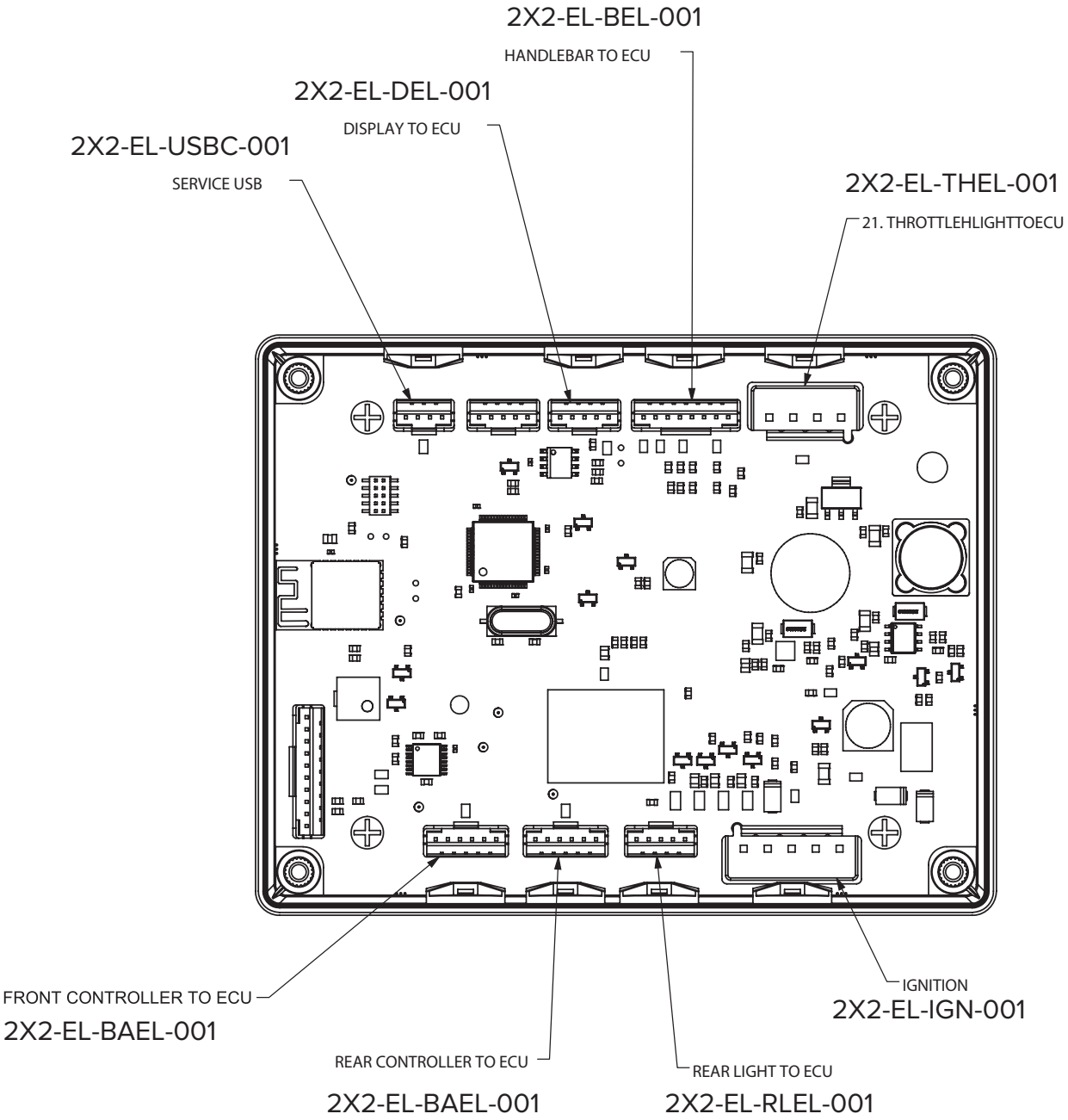
Required parts:
- ECU (2X2-EA-ECU-001)
- ECU Box Mount bracket (2X2-EA-HIDB-001)
-#4 1/4in self tapping screws x4

Tools required:
- Drill with 1mm drill bit
- Phillips driver

A. Using the Bracket as a guide, drill pilot holes for the self tapping screws.

B. Position the ECU box on the top face of the ECU mount bracket.
Use the 4x self tapping screws to fasten the bracket to the plastic ECU case.



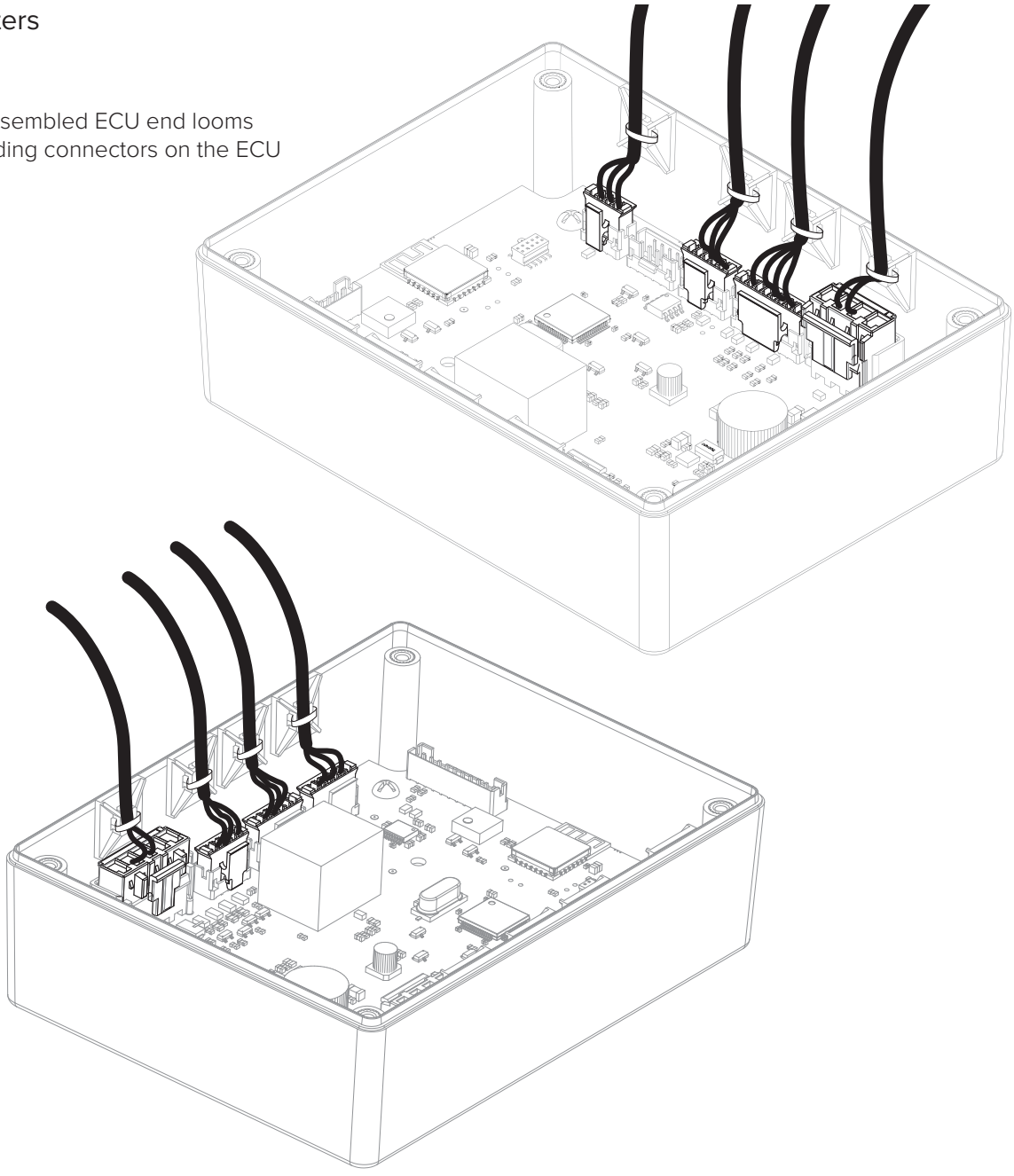

2X2-EL-BEL-001
HANDLEBAR TO ECU
2X2-EL-DEL-001
DISPLAY TO ECU
2X2-EL-USBC-001
SERVICE USB
2X2-EL-THEL-001
21. THROTTLEHLIGHTTOECU
FRONT CONTROLLER TO ECU
2X2-EL-BAEL-001
REAR CONTROLLER TO ECU
2X2-EL-BAEL-001
REAR LIGHT TO ECU
2X2-EL-RLEL-001
IGNITION
2X2-EL-IGN-001

### 1.5.2 ECU Loom Install

Required parts:
- ECU (2X2-EA-ECU-001)
- Cable ties 2.5mm x 100mm x8
- BAC800 ECU Lead (2x2-EL-BAEL-001) x2
- Bar ECU Lead (2x2-EL-BEL-001)
- Display ECU Lead (2x2-EL-DEL-001)
- Rear light ECU lead (2x2-EL-RLEL-001)
- Throttle Headligth ECU Lead (2x2-EL-THEL-001)
- USB Client ECU Lead (2x2-EL-USBC-001)

Tools required:
- Flush side cutters

A. Install the pre-assembled ECU end looms into the corresponding connectors on the ECU



**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Cables are secure.

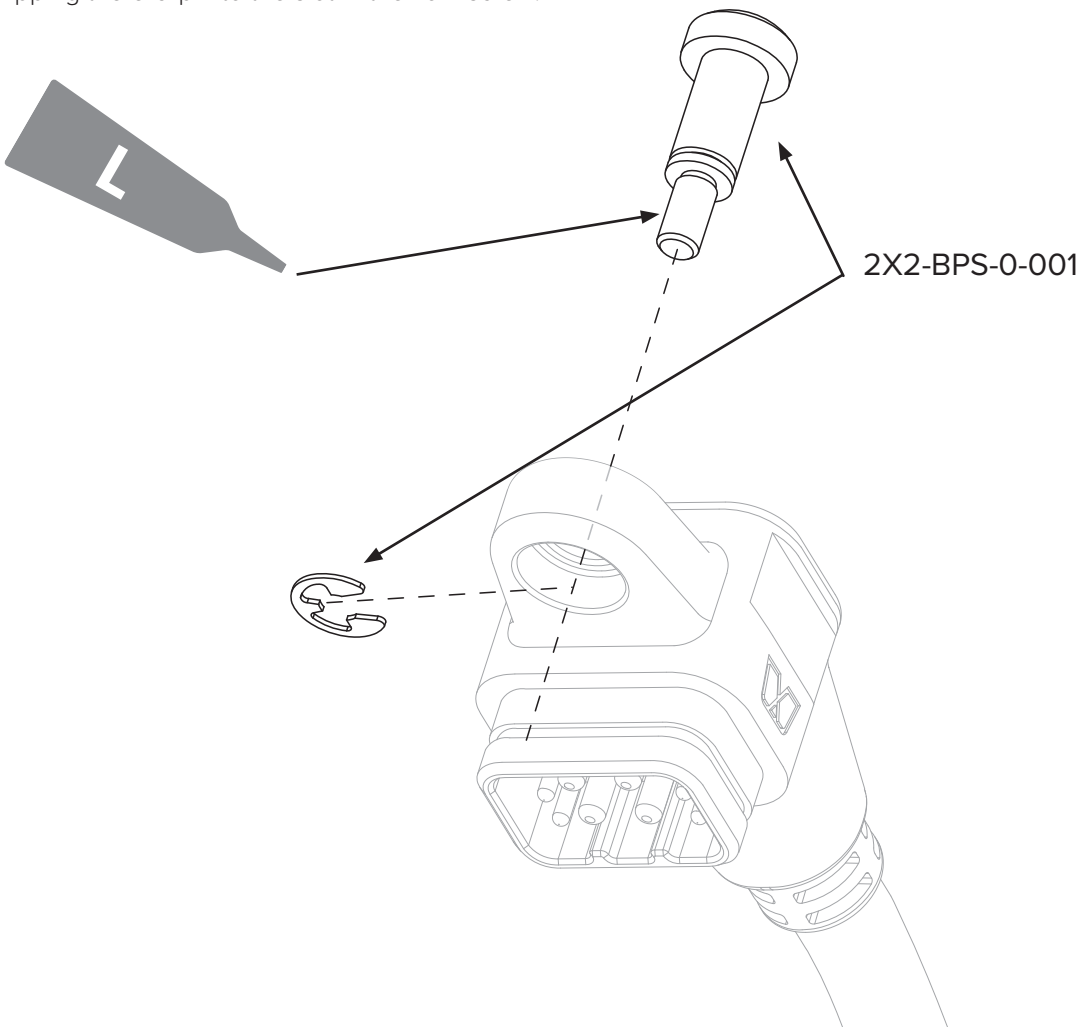
## 1.6 Battery cable retaining screw install

Required parts:
- Battery plug (BTR-BP-0-001)
- Battery plug screw and e-clip (2X2-BPS-0-001)

Tools required:
- Long nose pliers

A. Install the Torx battery plug screw into the hole detail on the battery plug

B. Secure the screw by clipping the e-clip into the slot in the Torx screw.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. E-clip secure in slot

## 1.7 Steering lock

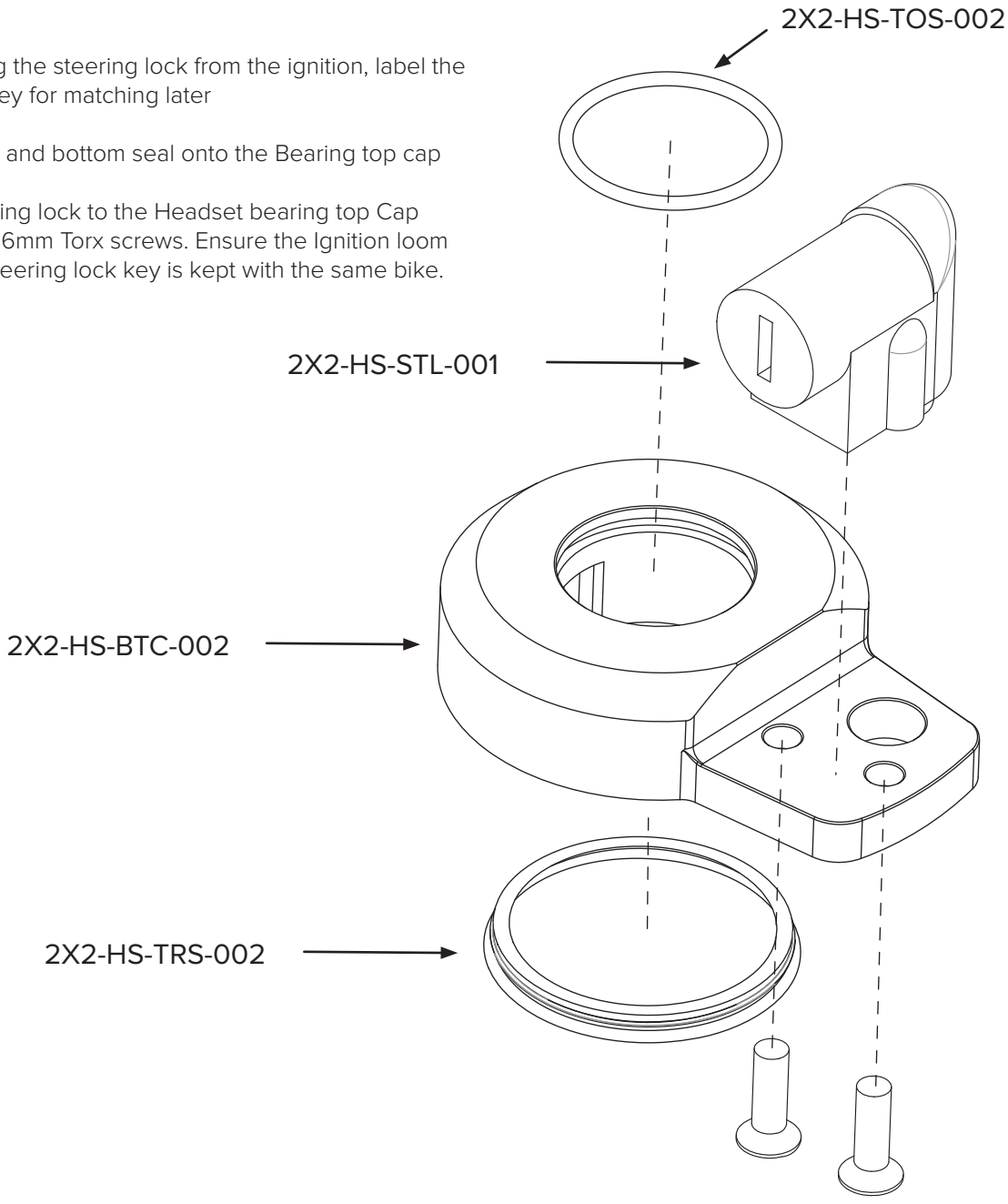
Required parts:
- Headset bearing top cap ( 2X2-HS-BTC-002)
- Top Cap O-ring seal (2X2-HS-TOS-002)
- Top Cap Radial seal (2X2-HS-TRS-002)
- Steering lock (2X2-HS-STL-001)
- M5 x 12mm Torx Countersink screws x2 Needs loctite Torque to 3.5 Nm

Tools required:
- T25 Torx driver

A. When separating the steering lock from the ignition, label the lock, ignition and key for matching later

B. Install the O-ring and bottom seal onto the Bearing top cap

C. Fasten the steering lock to the Headset bearing top Cap using the 2x M5 x 16mm Torx screws. Ensure the Ignition loom that matches the steering lock key is kept with the same bike.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Seals installed correctly.

## 1.8 Front console assembly

### 1.8.1 Front console cover sub assembly

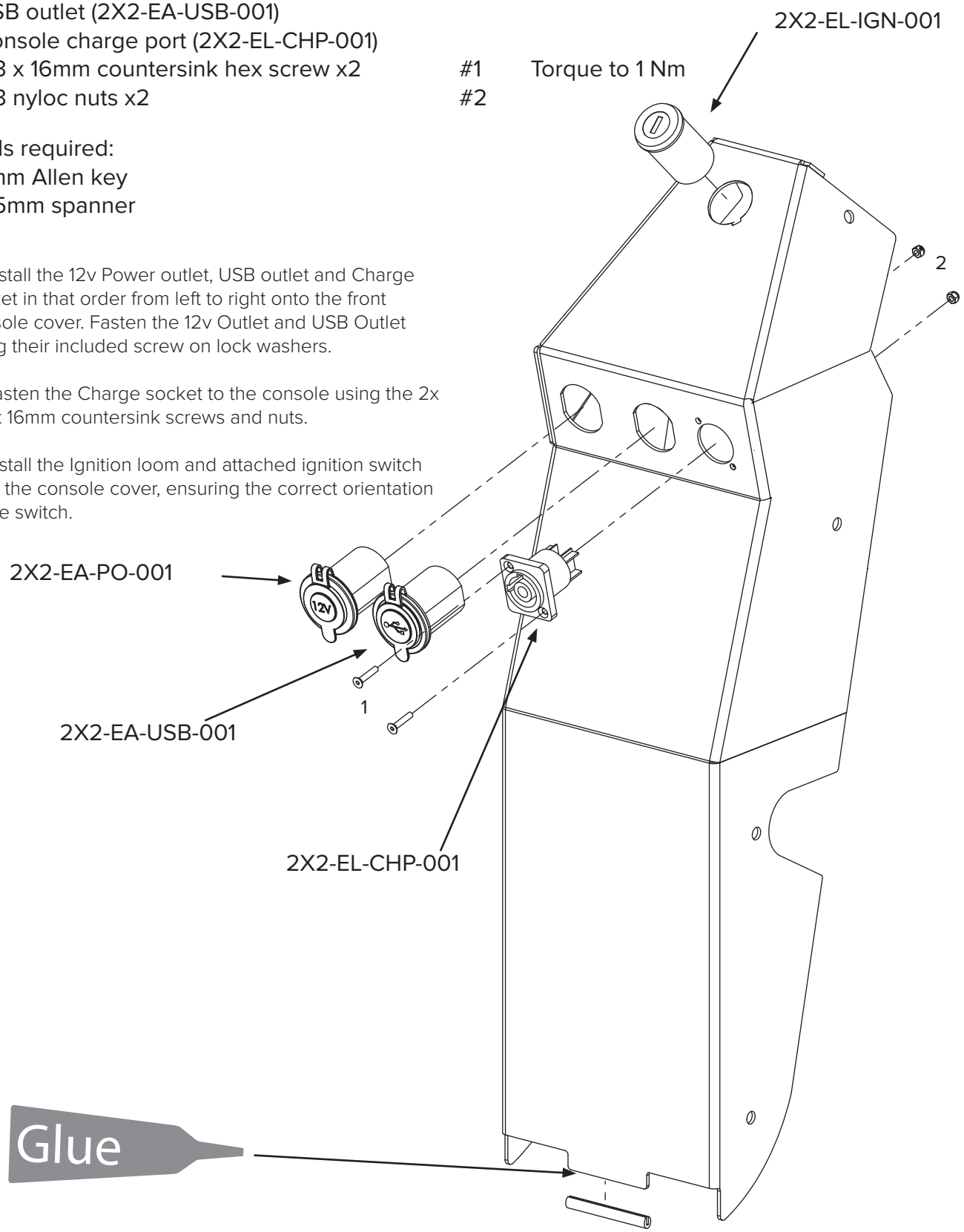
Required parts:
- Front console cover ( 2X2-FC-C-002)
- Console edge trim ( 2X2-CET-0-001)
- Ignition loom (2X2-EL-IGN-001)
- 12v power outlet (2X2-EA-PO-001)
- USB outlet (2X2-EA-USB-001)
- Console charge port (2X2-EL-CHP-001)
- M3 x 16mm countersink hex screw x2 #1 Torque to 1 Nm
- M3 nyloc nuts x2 #2

Tools required:
- 2mm Allen key
- 5.5mm spanner

A. Install the 12v Power outlet, USB outlet and Charge socket in that order from left to right onto the front console cover. Fasten the 12v Outlet and USB Outlet using their included screw on lock washers.

B. Fasten the Charge socket to the console using the 2x M3 x 16mm countersink screws and nuts.

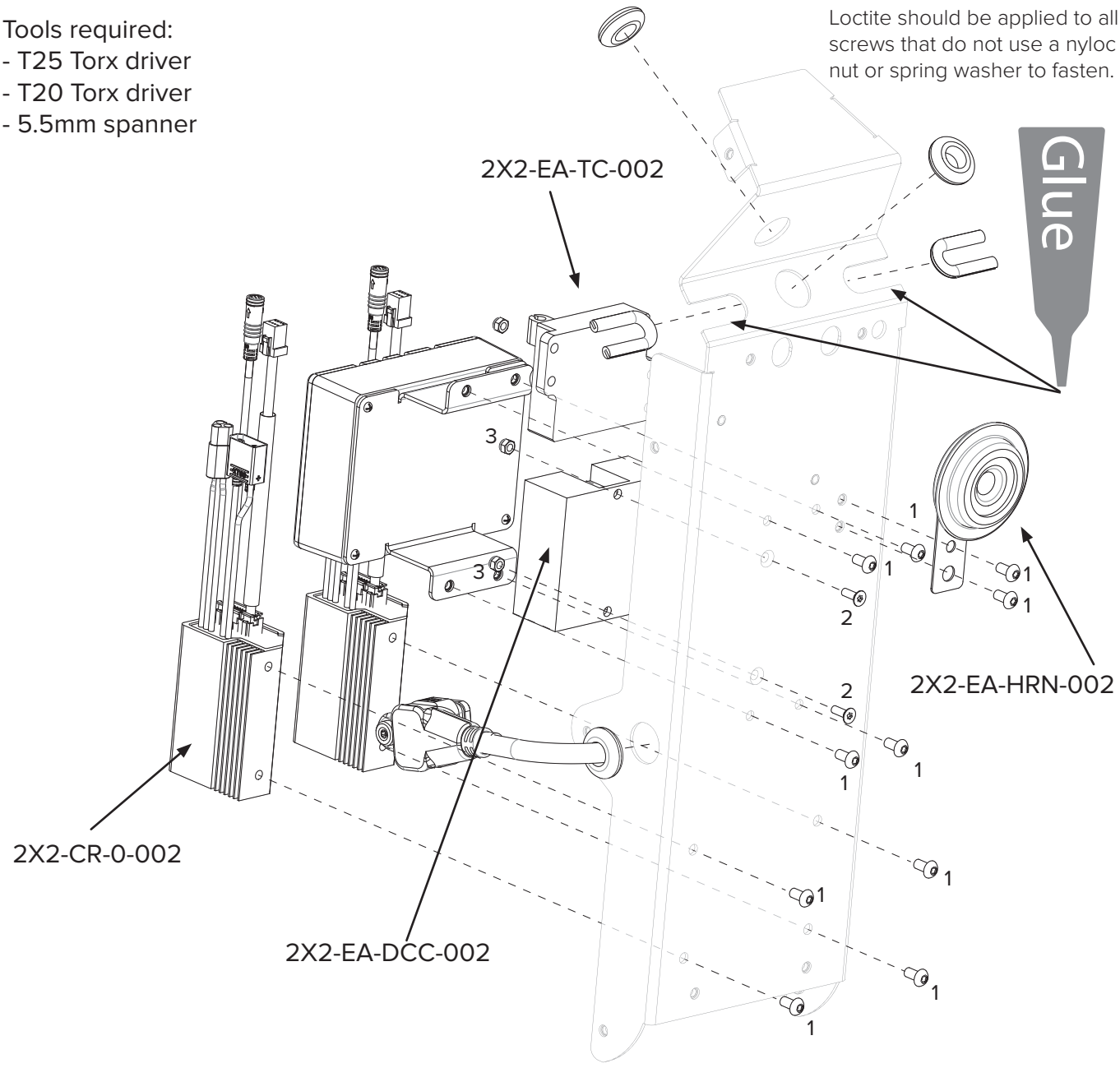
C. Install the Ignition loom and attached ignition switch onto the console cover, ensuring the correct orientation of the switch.



### 1.8.2 Front console base sub assembly

Required parts:
- Front console base (2X2-FC-B-002)
- Console edge trim (2X2-CET-0-001) x2
- Controllers (2X2-CR-0-001) x2
- 12v DC converter (2X2-EA-DCC-002)
- Cable throttle converter (2X2-EA-TC-002)
- Horn (2X2-EA-HRN-002)
- ECU (2X2-EA-ECU-001)
- ECU Mount bracket (2X2-EA-HIDB-001)
- Battery plug (BTR-BP-0-001)
- Front motor cable (2X2-EA-MCF-002)
- Cable grommet (2X2-CG-0-001) x2
- M5 x 10mm Torx button head screws x10 — #1 needs loctite — Torque to 3 Nm
- M4 x 12mm Torx countersink screws x 2 — #2
- M4 Nyloc nut x 4 — #3 — Torque to 1.5 Nm

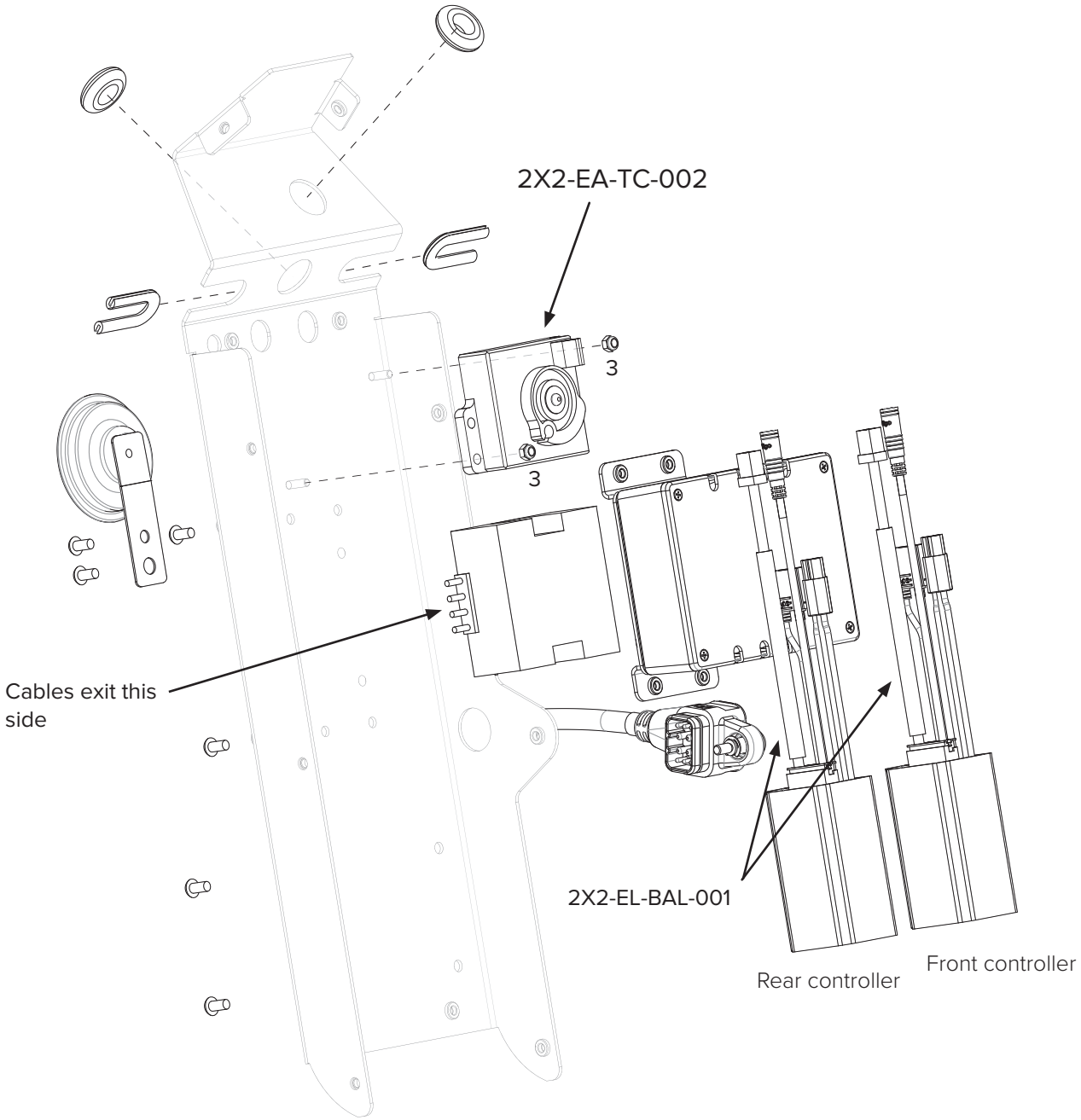
Tools required:
- T25 Torx driver
- T20 Torx driver
- 5.5mm spanner



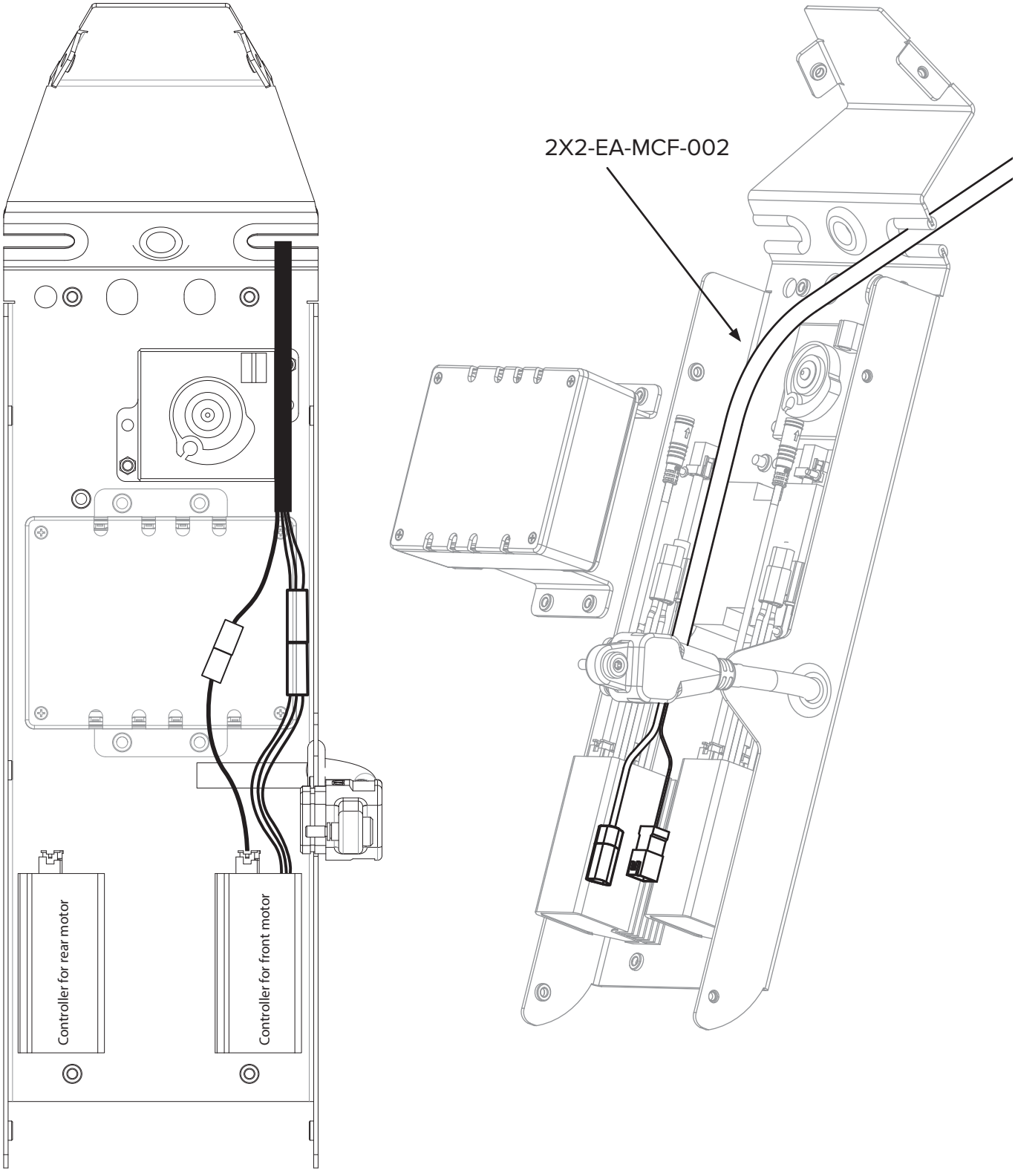
A. Glue the edge trim pieces to the required locations on the console base and ensure excess glue is cleaned

B. Install the two round cable grommets into the large holes in the upper section of the console

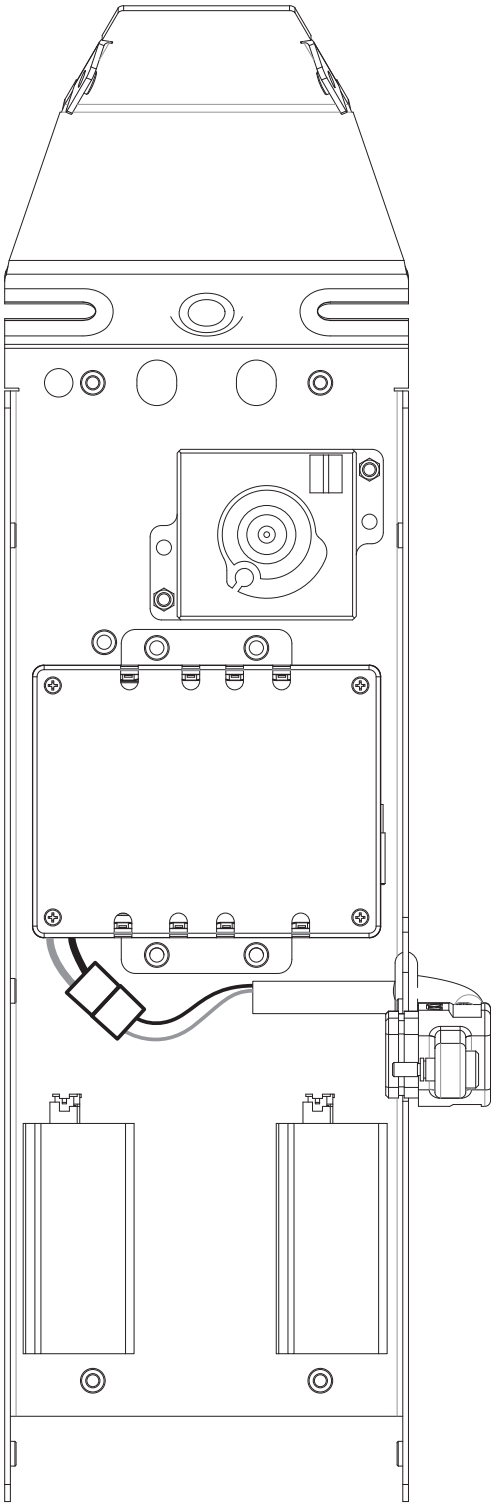
C. Install the sub assembly parts onto the console, the following order is recommended:
1. DC-DC converter ( Orientation: cables exit to the left side)
2. Throttle converter
3. Front motor cable (mount to the right side of the ECU)
4. ECU sub assembly ( Orientation: Handlebar loom exits to top)
5. Controllers
6. Battery cable
7. Horn



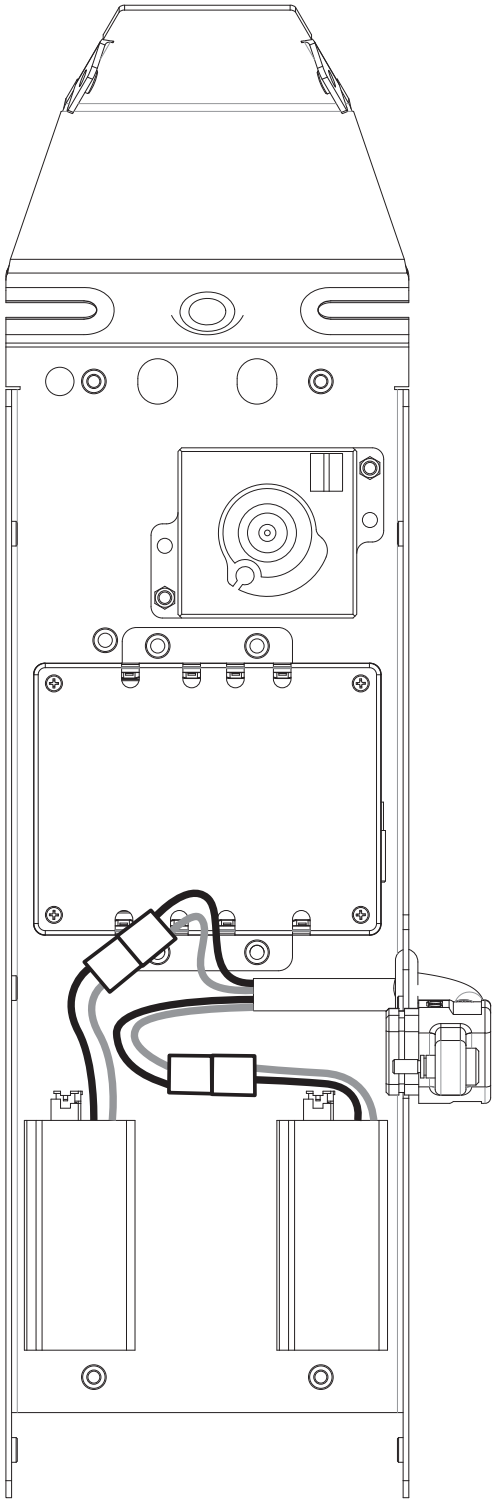
Plug front motor cable into front motor controller



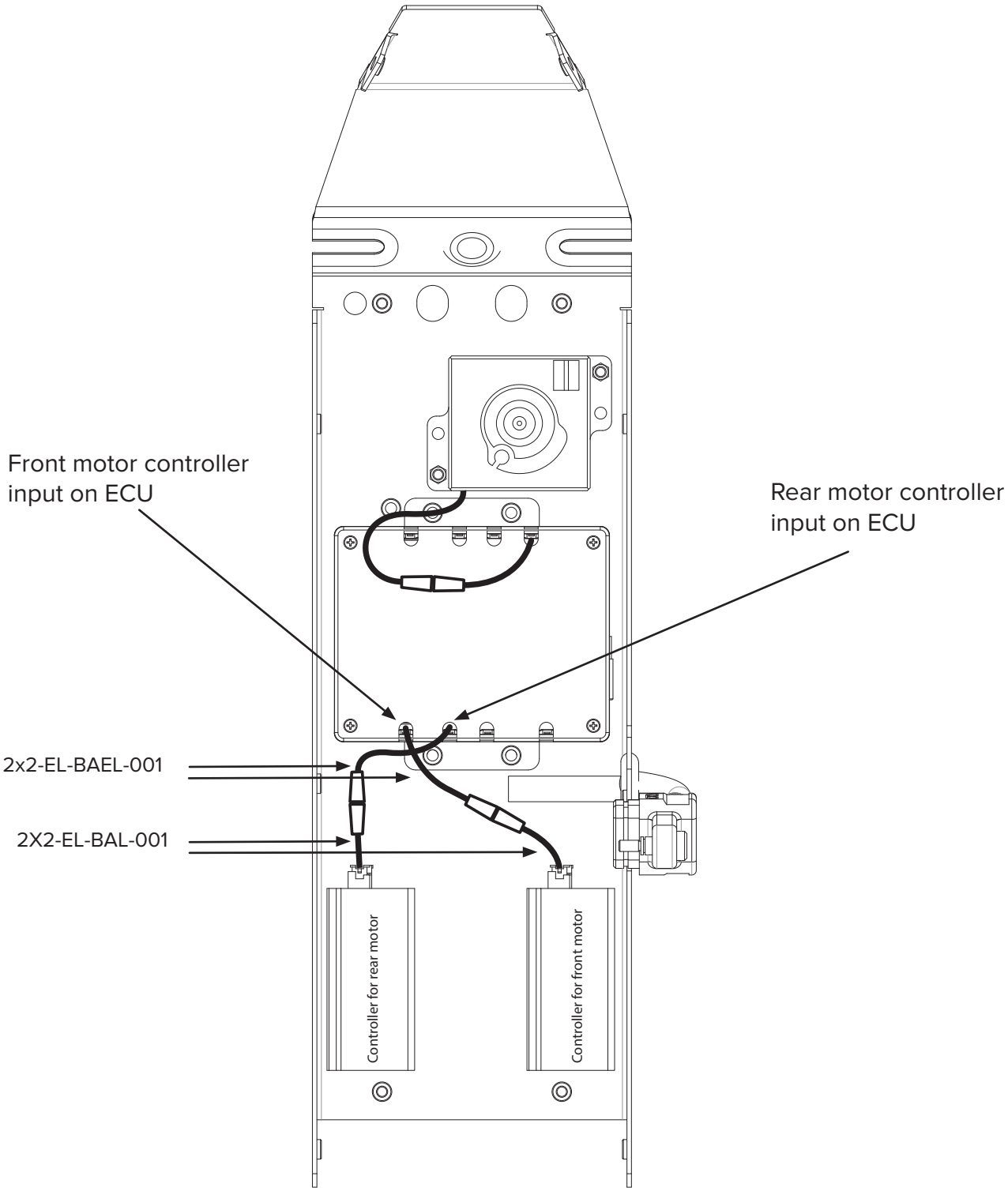
Plug DC-DC input (red + black) into battery cable DC-DC input (red + black)



Note: Motor controller power can be plugged into either plug from battery cable.



Plug throttle into ECU, Plug front and rear motor controllers into ECU ensuring front and rear inputs go to the correct connector on the ECU, these should cross over.




## QC CHECKPOINT - see next page

# QC CHECKPOINT

1. Ensure sub-assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Cables are connected

4. All connectors are mounted as high towards the top of the console as possible.

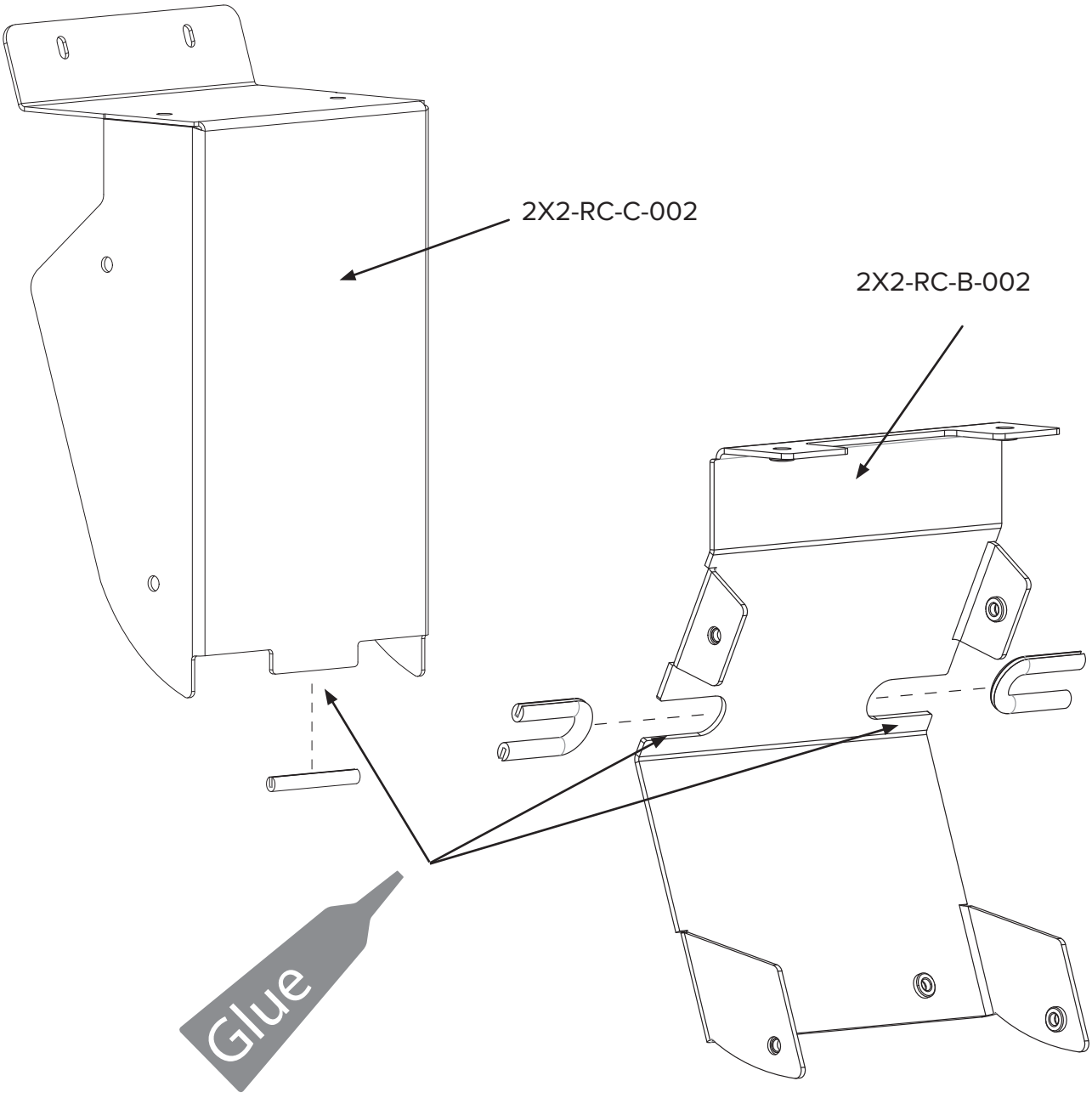
5. Glue applied where specified.

6. Excess glue cleaned

## 1.9 Rear Console sub assembly

Required parts:
- Rear console base (2X2-RC-B-002)
- Rear console cover (2X2-RC-C-002)
- Console edge trim (2X2-CET-0-001)

A. Glue the edge trim pieces to the required locations on the rear console cover and base parts
Ensure excess glue is cleaned




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Glue applied where specified

4. Excess glue is cleaned.

## 1.10 Wheel assembly

### 1.10.1 Wheel sub assembly

Required parts:
- Tyre - Kenda 667 (2X2-WA-TKEN-001)
- Wheel sub assembly - Rim + Motor + spokes (2X2-WA-MRS-001)
- Rim Tape (2X2-WA-RT-002)
- Rim lock (2X2-WA-RL-002)
- 2X2-BR-RTR-001
- Inner tube (2X2-WA-INT-001)
- M5 x 10mm Torx Button Head screws x6 Needs loctite Torque to 7 Nm

Tools required:
- T25 Torx driver

A. Install the brake disk onto the mounting holes on the motor, ensuring the rotation direction indicated on the brake disk is correct.

B. Install the rim tape onto the rim and ensure no spokes are exposed on the inside of the rim

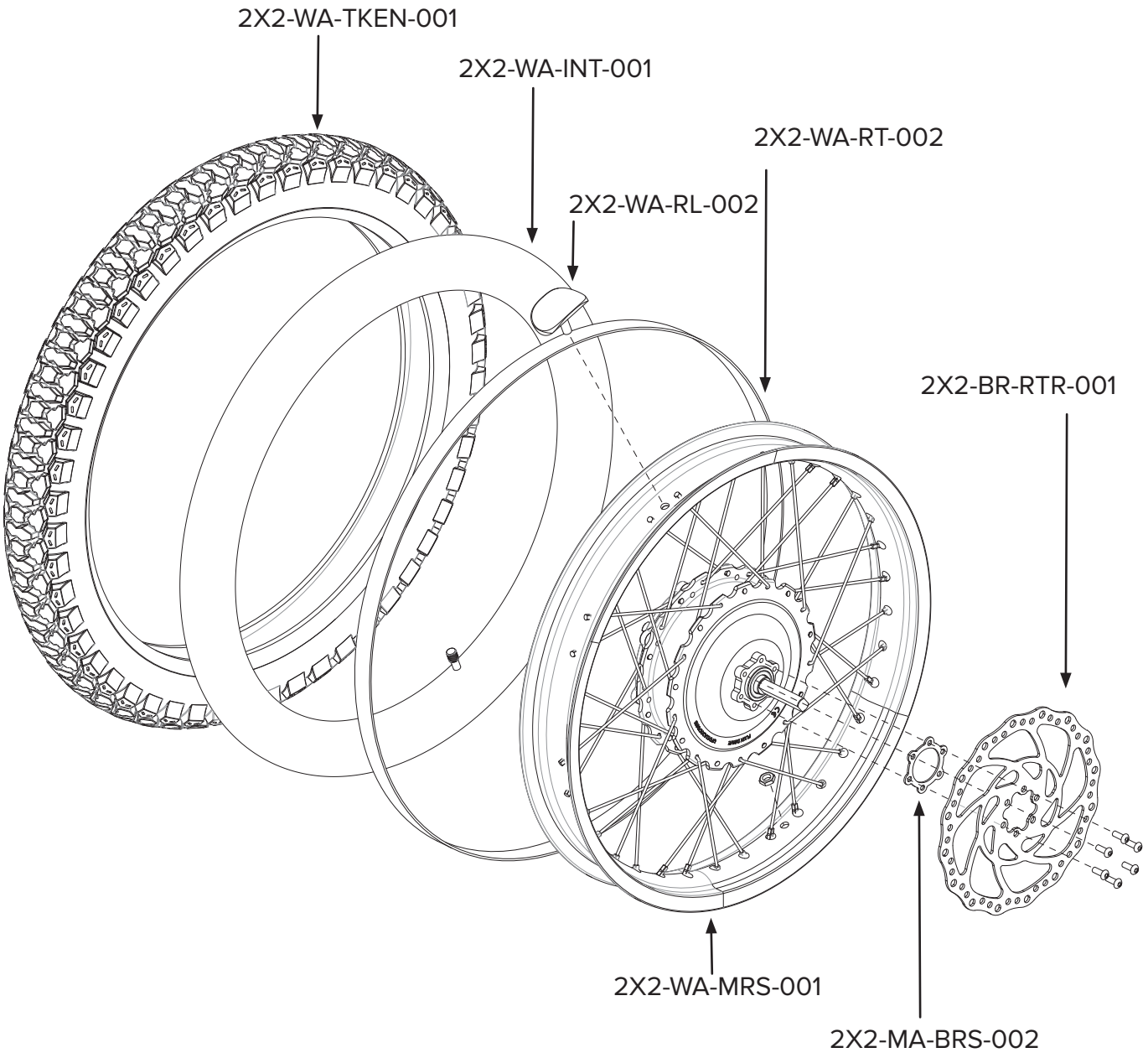
C. Install the rim lock without tightening the nut

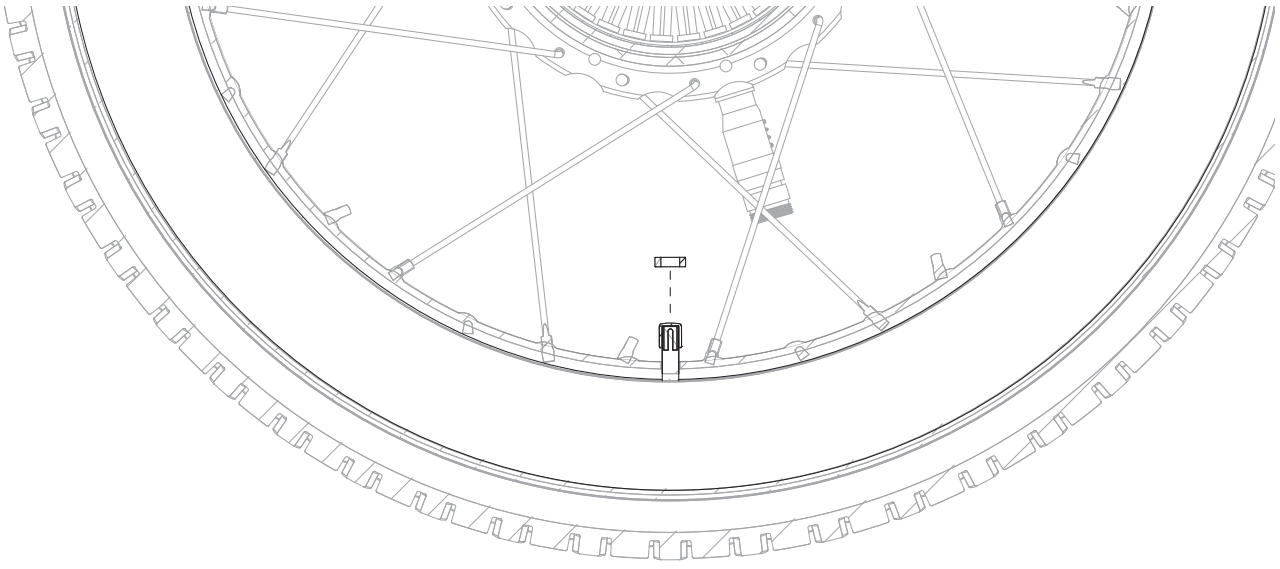
D. Install the tyre tube and fasten the valve retaining nut to the outside of the valve

E. Install the tyre onto the rim (tyre changing machine is recommended)

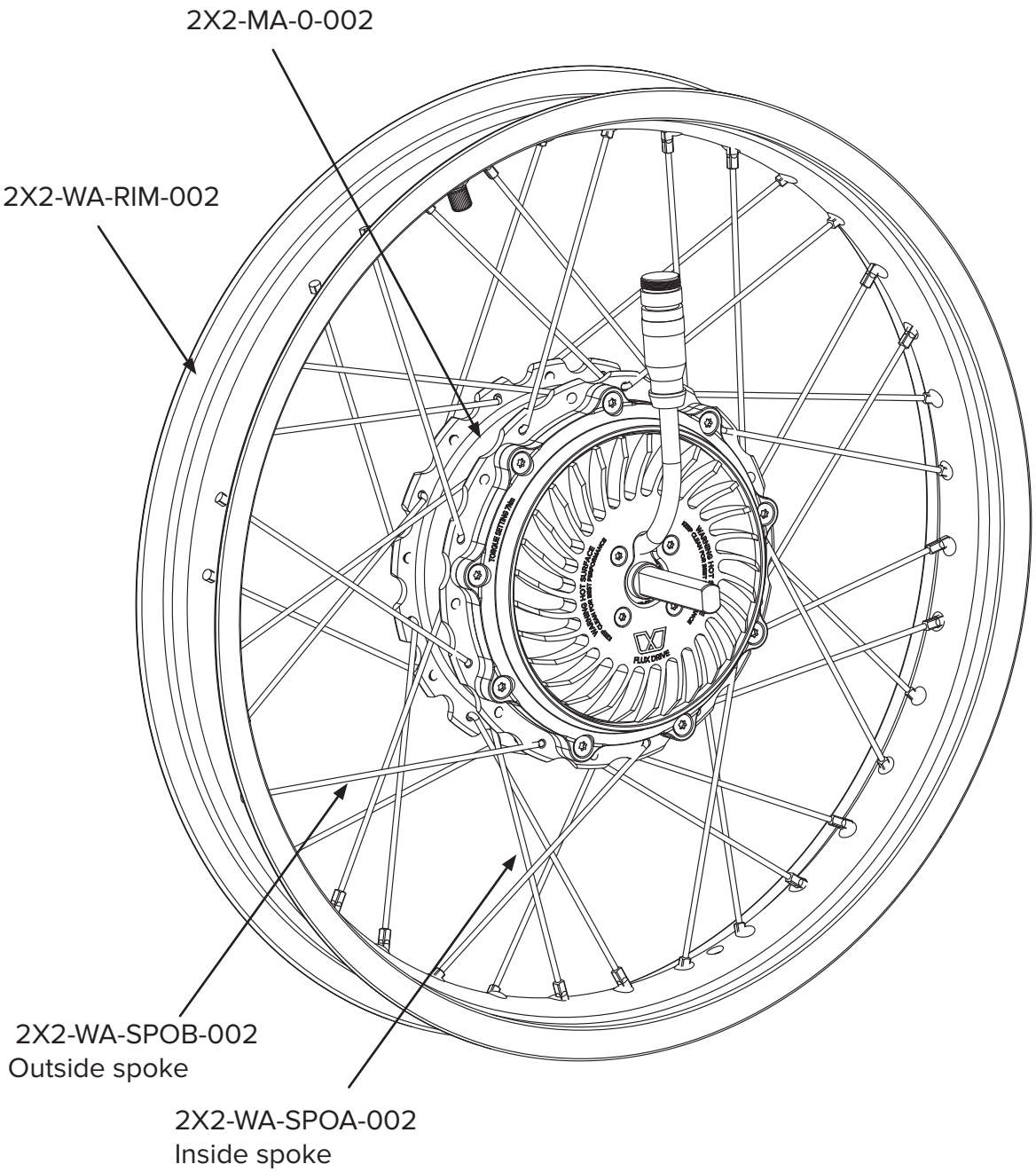
F. Tighten the rim lock

G. Inflate the tyre to 25 PSI



## QC CHECKPOINT - see next page




# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

5. Tyres inflated correctly.

## 1.11 Headlight sub assembly

Required parts:

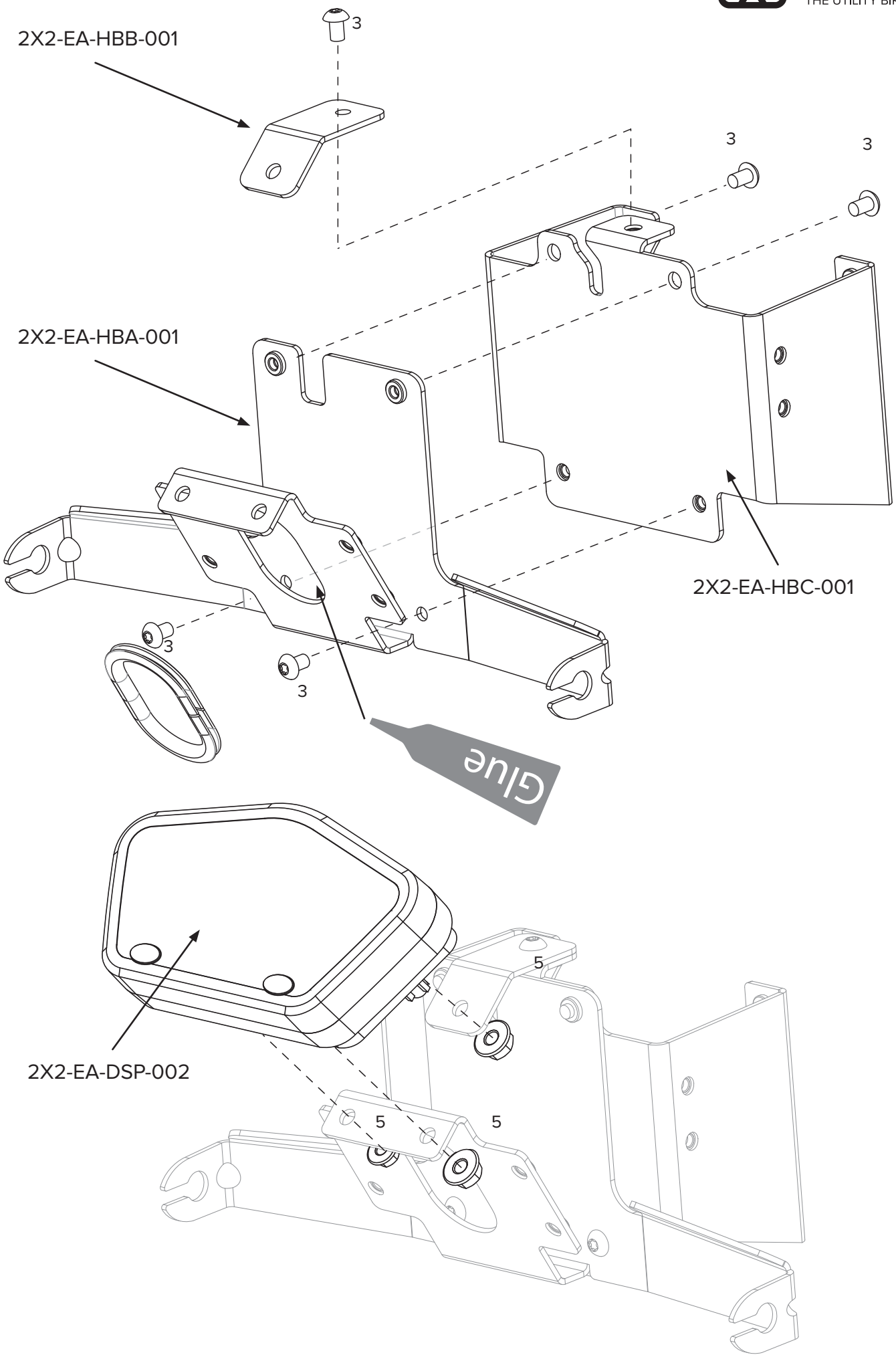
- Headlight (2X2-EA-HLL-002, 2X2-EA-HLR-002)
- Headlight Clamp A (2X2-HB-HLCA-001)
- Headlight Clamp B (2X2-HB-HLCB-001)
- Console edge trim (2X2-CET-0-001)
- Headlight bracket A (2X2-EA-HBA-001)
- Headlight bracket B (2X2-EA-HBB-001)
- Headlight bracket C (2X2-EA-HBC-001)
- Headlight Front Plate (2X2-EA-HFP-001)
- Headlight Cover (2X2-EA-HC-001)
- 12v Loom (2x2-EL-12VL-001)
- Display (2X2-EA-DSP-002)
- Display cable
- Bar loom (2x2-EL-BL-001)

| | | |
|---|---|---|
| - M5 x 30 socket button head screw x4 | #1 needs loctite | |
| - M5 x 16 socket button head screw x4 | #2 needs loctite | Torque to 2.5 Nm |
| - M5 x 8 Torx button head screw x 5 | #3 needs loctite | Torque to 3 Nm |
| - M4 x 20 Torx countersink screw x 4 | #4 needs loctite | Torque to 2.5 Nm |
| - M6 Flange nut x 3 | #5 | |

Tools required:

- T25 Torx driver
- T20 Torx driver
- 10mm ring spanner

Loctite should be applied to all screws that do not use a nyloc nut or spring washer to fasten.


2X2-EA-HBB-001
3
3
3
2X2-EA-HBA-001
2X2-EA-HBC-001
3
3
Glue
2X2-EA-DSP-002
5
5
5

A. Glue the edge trim to the slotted hole in Headlight Bracket A, ensure all excess glue is cleaned

B. Attach Headlight Bracket C to Headlight Bracket A using 4x M5 x 8mm Torx button head screws

C. Install Headlight Bracket B onto Headlight Bracket C using 1x M5 x 8mm Torx button head screw.

D. Install the display using the 3x M6 flange nuts.

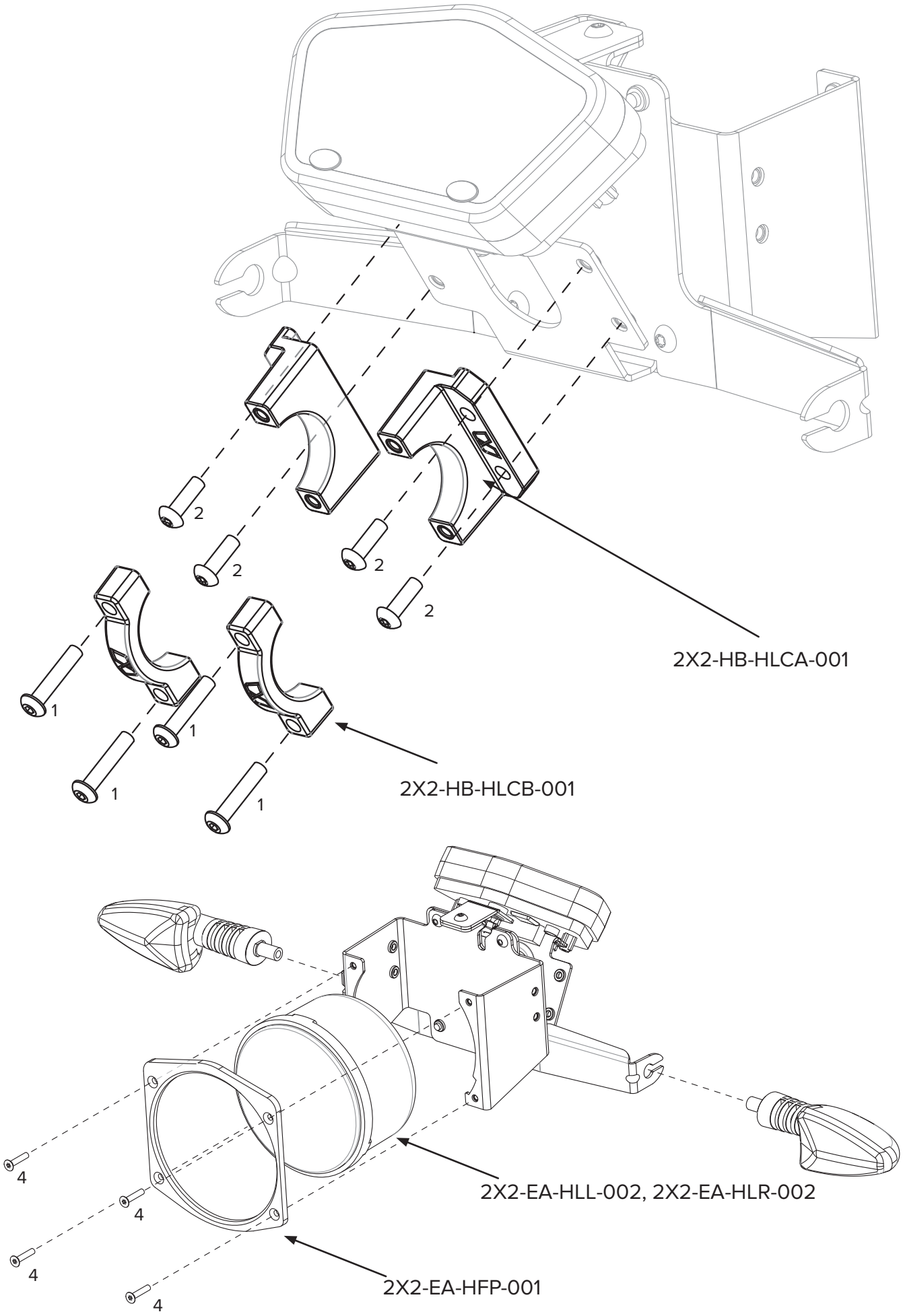
F. Install the headlight onto Headlight Bracket C, ensuring the correct orientation. The cut-out detail on the bracket will match the plastic details on the light housing. The light cable should be routed upwards and towards the cable routing slots.

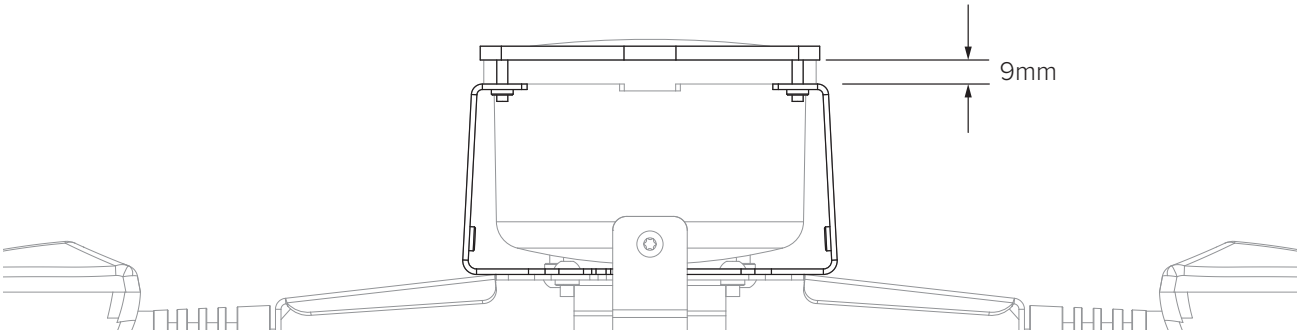
G. Install the  Headlight Front Plate onto the front of the headlight and fasten with 4x M4 Torx countersink screws. Ensure the orientation of the Front Plate matches below. Ensure all four screws are tight and the distance between the front plate and Bracket C is 9mm (see image)

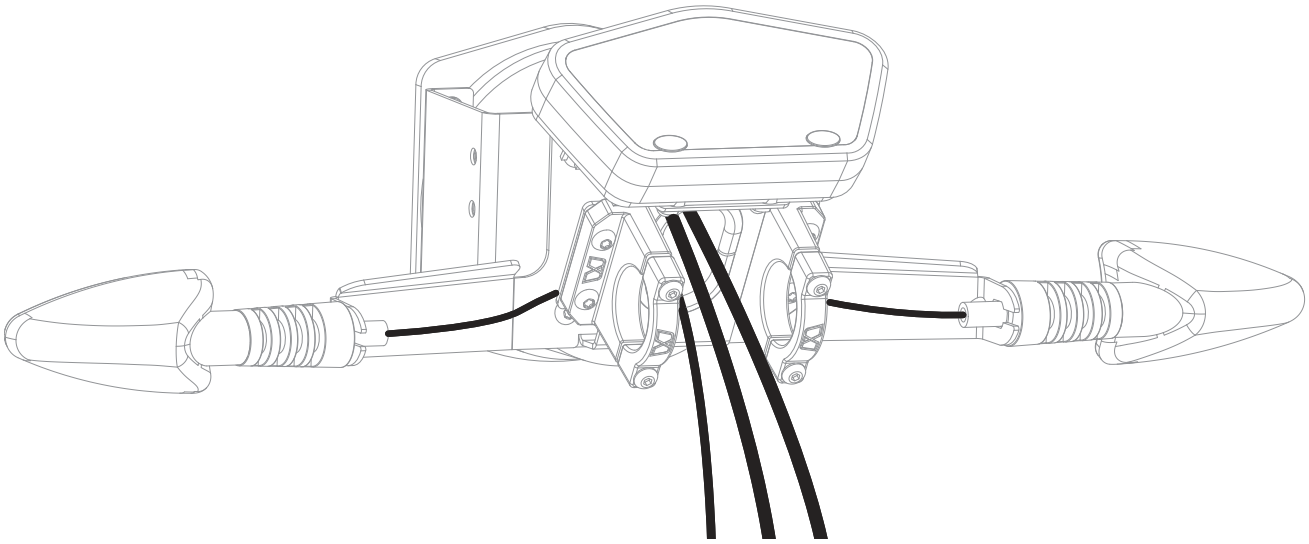
H. Install the two indicator lights onto the indicator light mount stalks and ensure they are aligned. Fasten with their included washers and nuts.

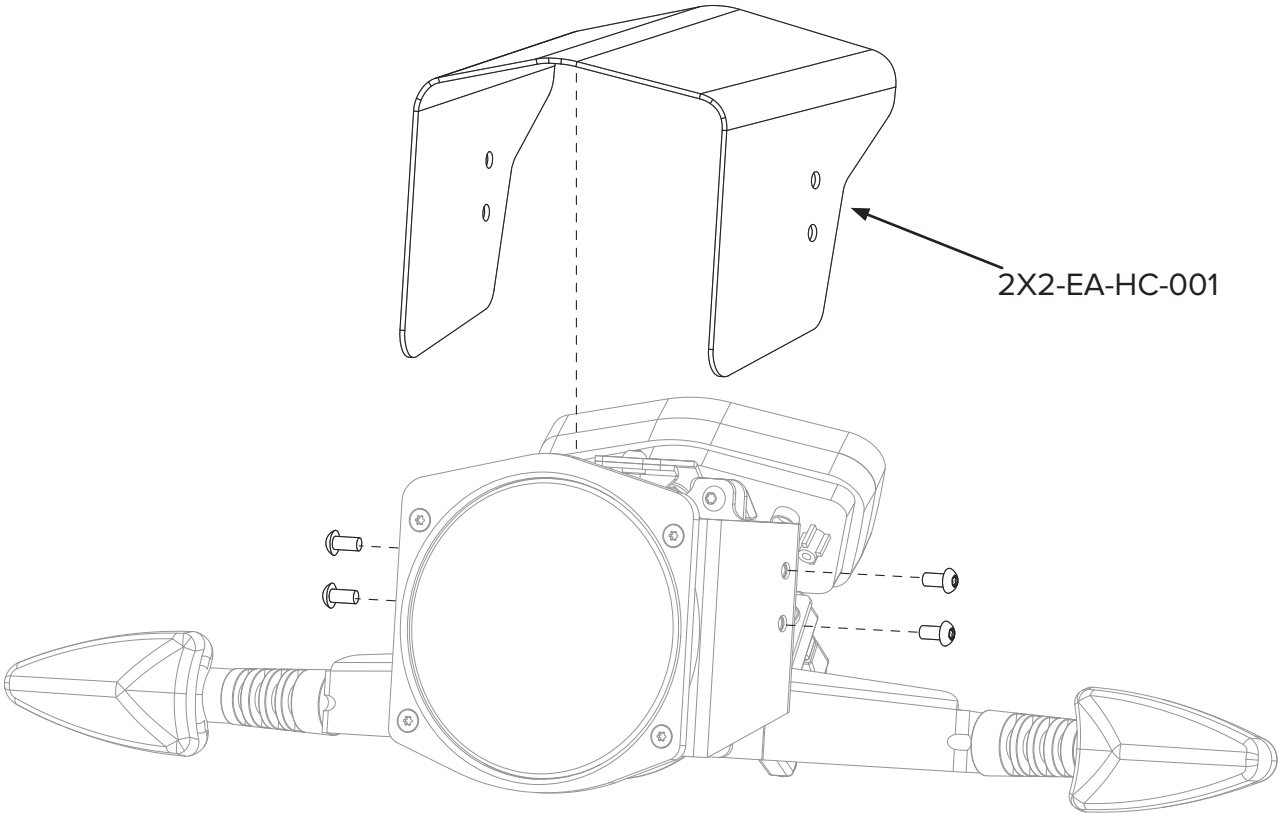
I. Feed loom cables through the cable hole in the rear of Headlight bracket A and connect.
- 12V loom connects to headlight
- Bar loom connects to direction indicator lights
- Display cable pugs into rear of display

J. Install the headlight cover using the 4x 5x 10mm Torx screws.


2
2
2
2
2X2-HB-HLCA-001
1
1
1
1
2X2-HB-HLCB-001
4
4
4
4
2X2-EA-HLL-002, 2X2-EA-HLR-002
2X2-EA-HFP-001






## QC CHECKPOINT - see next page

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

5. Cables are routed.

6. Glue applied where specified.

7. Excess glue cleaned.

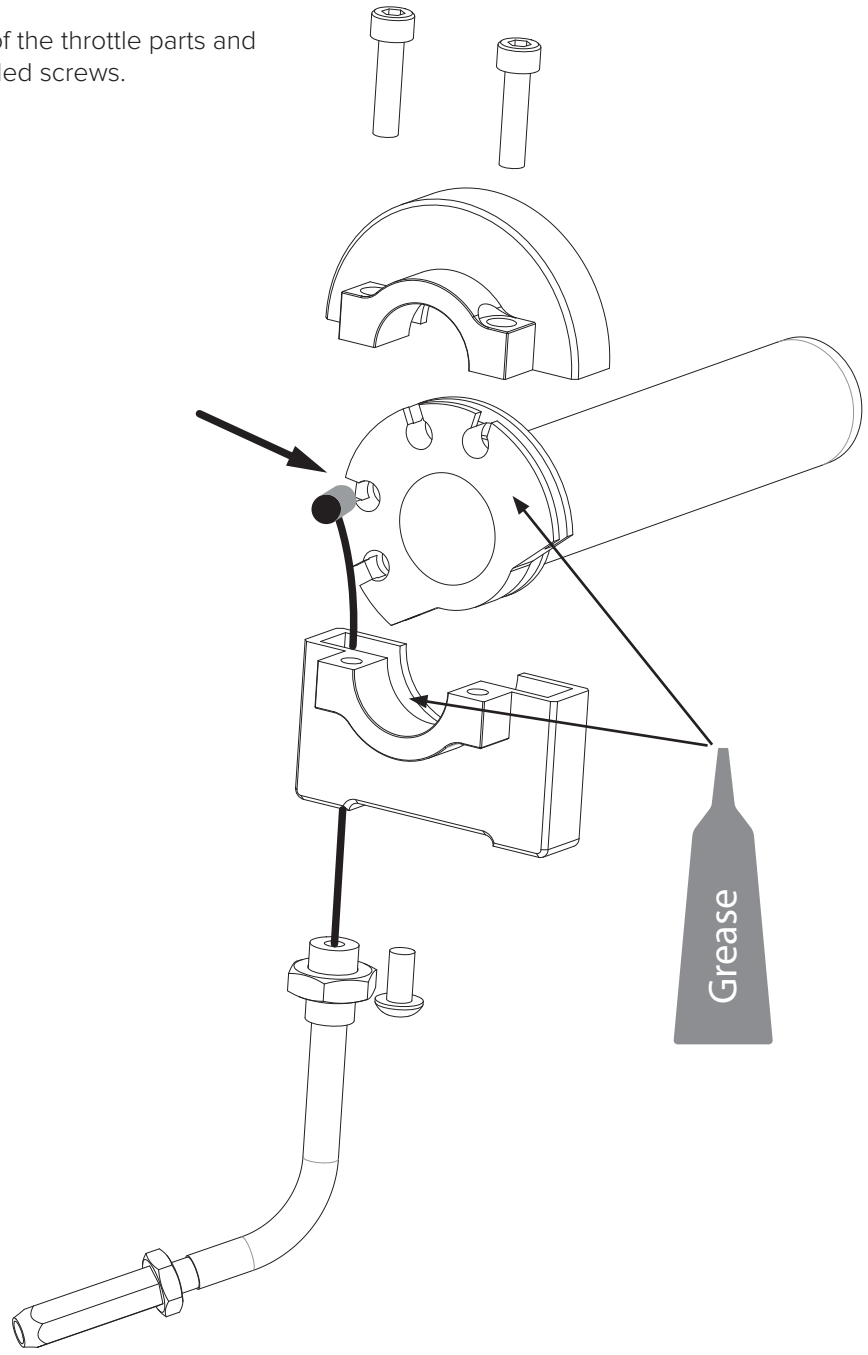
## 1.12 Throttle assembly

Required parts:
- Throttle (2X2-HB-THR-002)
- Throttle cable (2X2-HB-THRC-002)

Tools required:
- T25 Torx driver
- 4mm Allen key
- 10mm Ring spanner

A. Feed the throttle cable into the throttle body and locate the cable end in the second position on throttle handle.

B. Apply grease to the inside of the throttle parts and fasten together with the provided screws.



# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Throttle parts align when fasteners tightened.

5. Grease applied where specified.

## 1.13 Handlebar Sub assembly

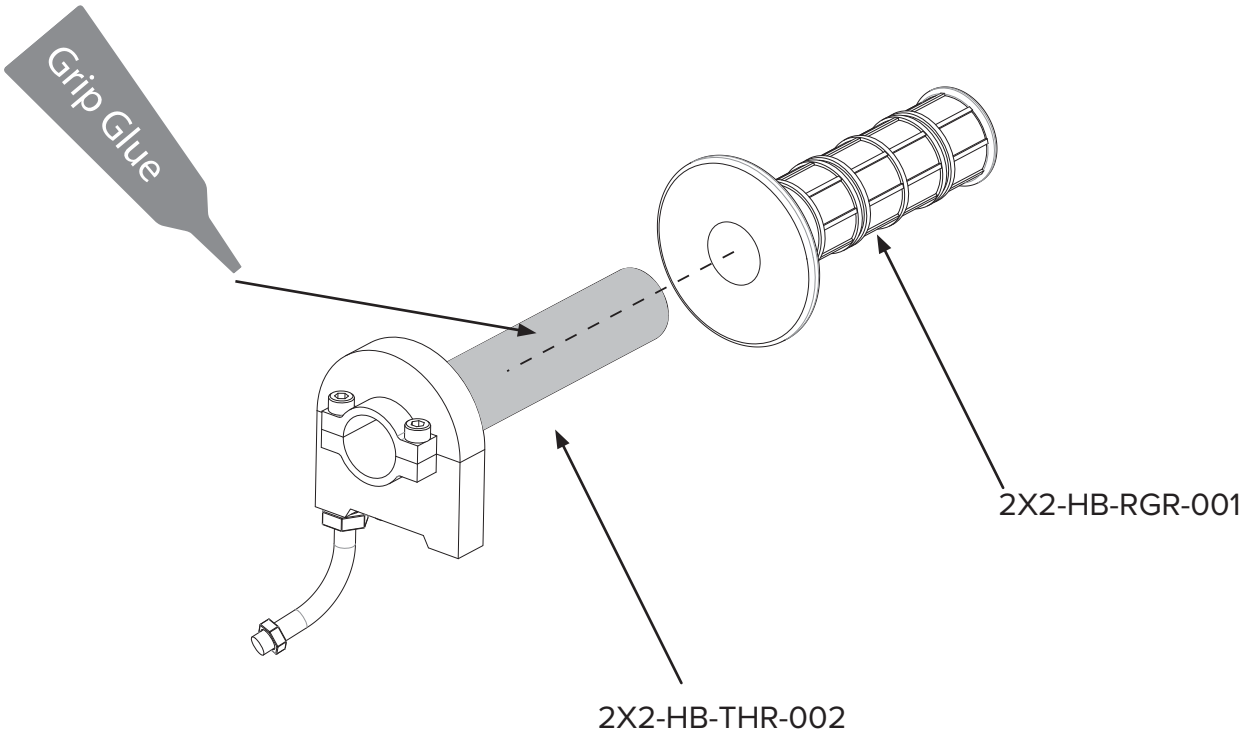
Required parts:
- Handlebar (2X2-HB-BR-001)
- Throttle (2X2-HB-THR-002)
- Left Grip (2X2-HB-LGR-001)
- Right Grip (2X2-HB-RGR-001)
- Bar control (2X2-EA-HBCL-001)
- Mirror mount (2X2-HB-MIRM-001)
- Kill switch (2X2-EL-MKS-001)
- Grip Glue

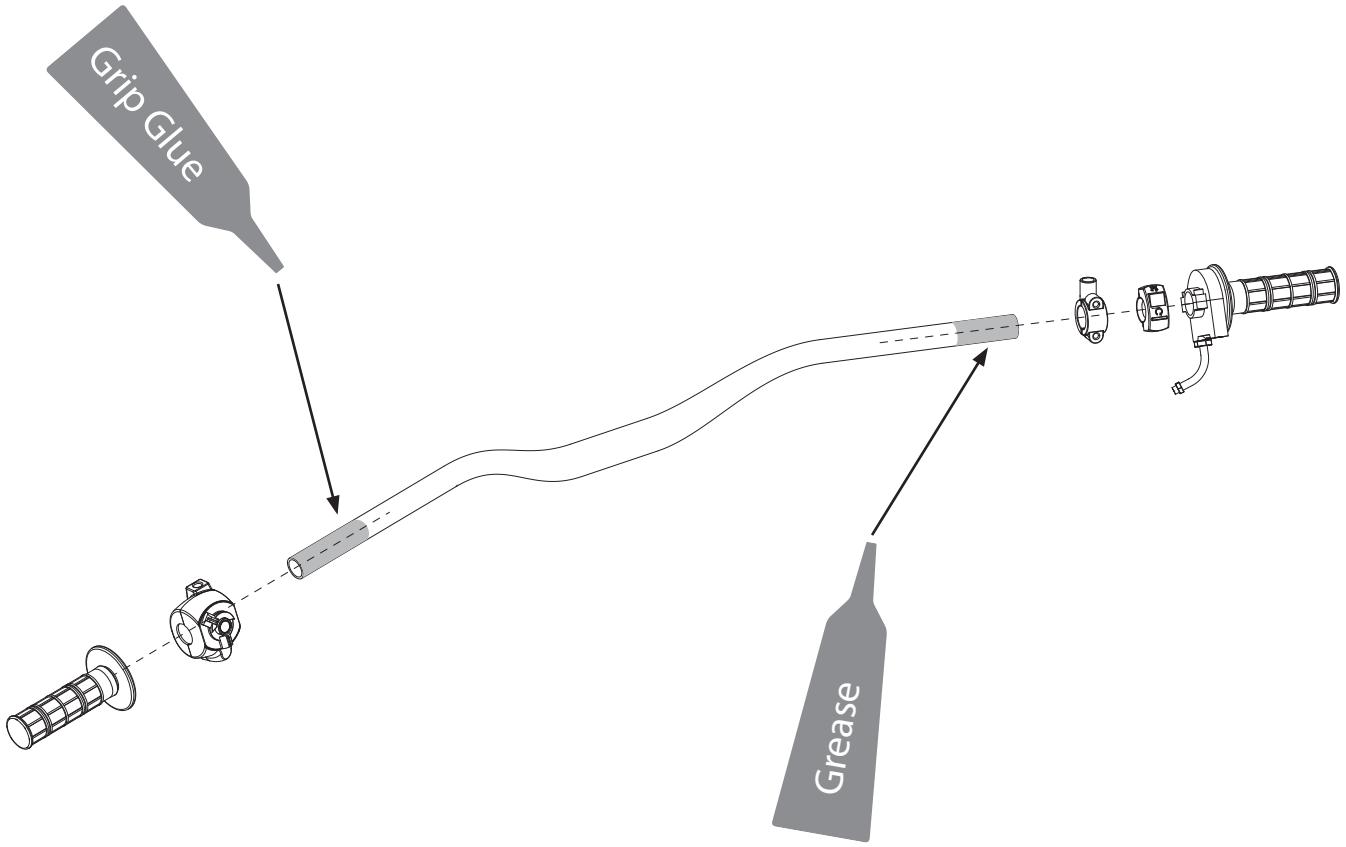
Tools required:
- 3mm Allen key
- 4mm Allen Key
- Phillips Driver

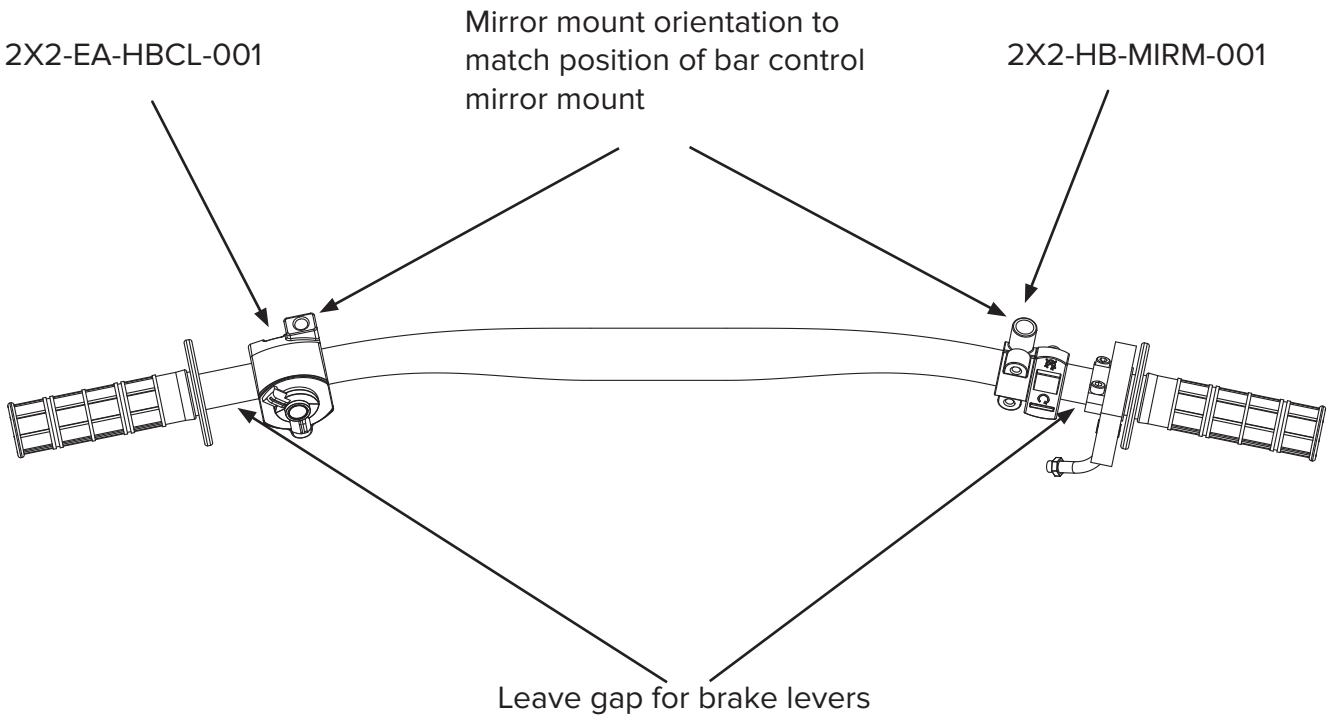
A. Install the throttle grip onto the throttle using grip glue

B. Install the mirror mount, kill switch and throttle onto the right end of the handlebar in order illustrated. Use grease on the handlebar to help lubricate the throttle.

C. Install the bar control and left grip onto the left end of the handlebar in the order illustrated, use grip glue to fix the grip






## QC CHECKPOINT - see next page

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Glue and grease applied where specified

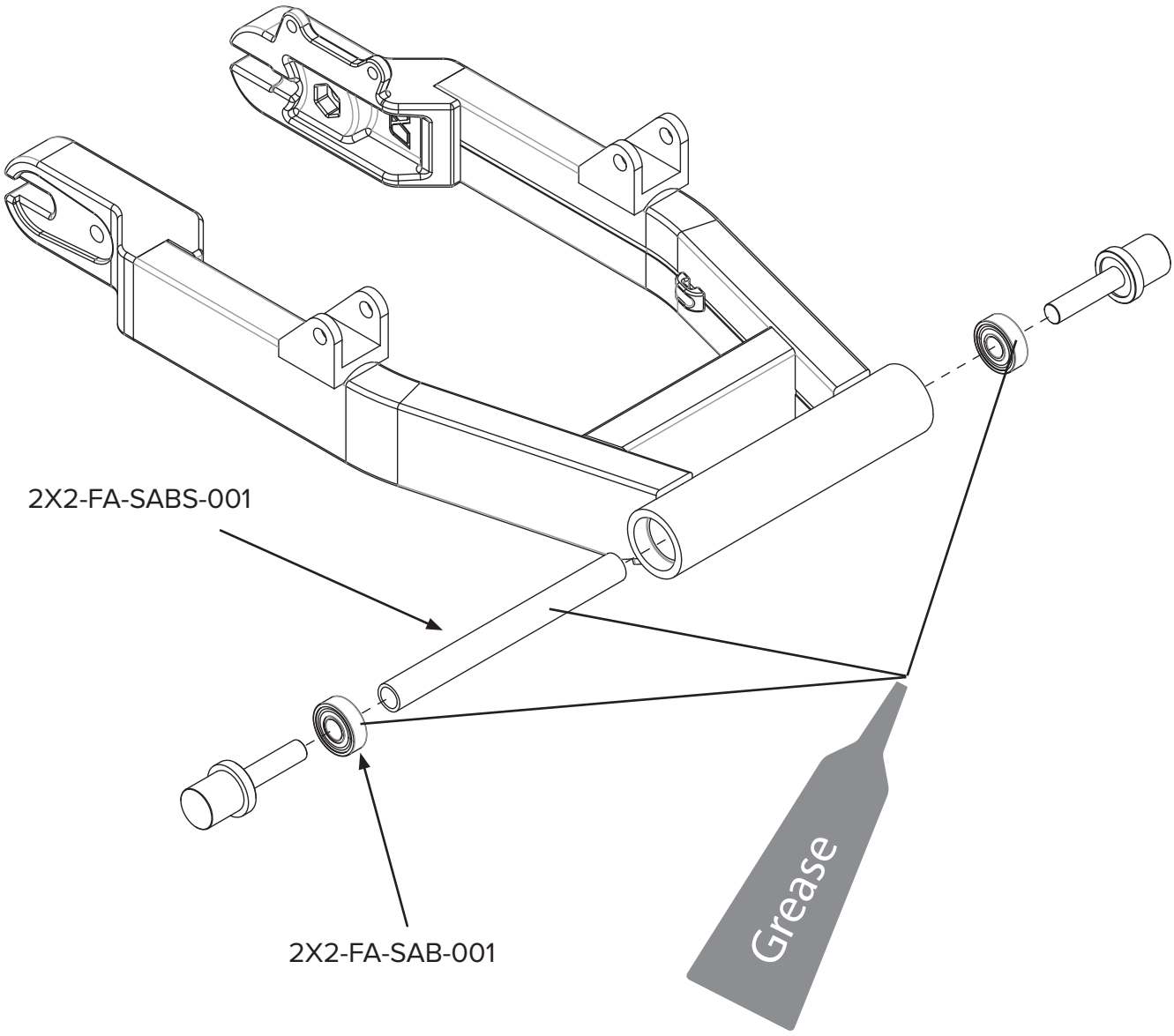
5. Excess glue and grease is cleaned.

## 1.14 Swing arm assembly

Required parts:
- Swing Arm (2X2-FA-SA-001)
- Swing Arm Bearing spacer (2X2-FA-SABS-001)
- Swing Arm Bearing (2X2-FA-SAB-001) x2

Tools required:
- Press tool
- Hydraulic or Pneumatic press

A. Using the provided tools and a press, install the bearing spacer tube and 2x bearings ensuring grease is used.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Grease applied where specified.

# 2. Assembling parts into the frame

## Before assembling parts into frame, frame should be visually inspected for defects

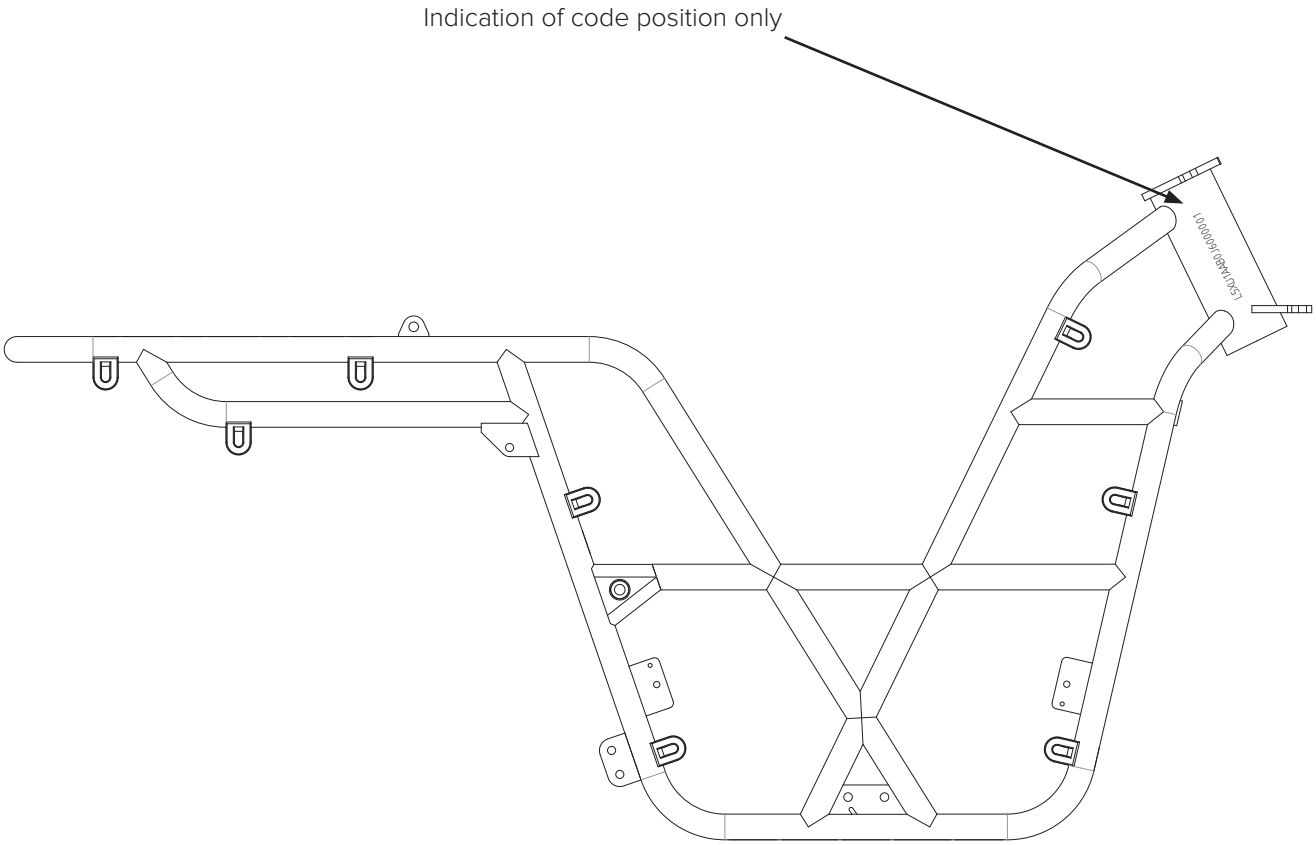
## 2.1 VIN code application

### 2.1.1 VIN code application

Required parts:
- Frame (2x2-FA-FRA-002)

Tools required:
- VIN engraving machine

A. Engrave the Unique VIN code on the right side of the Head tube. Keep size and position of VIN code consistent between all frames.




# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

### 2.1.2 US Compliance labels installation

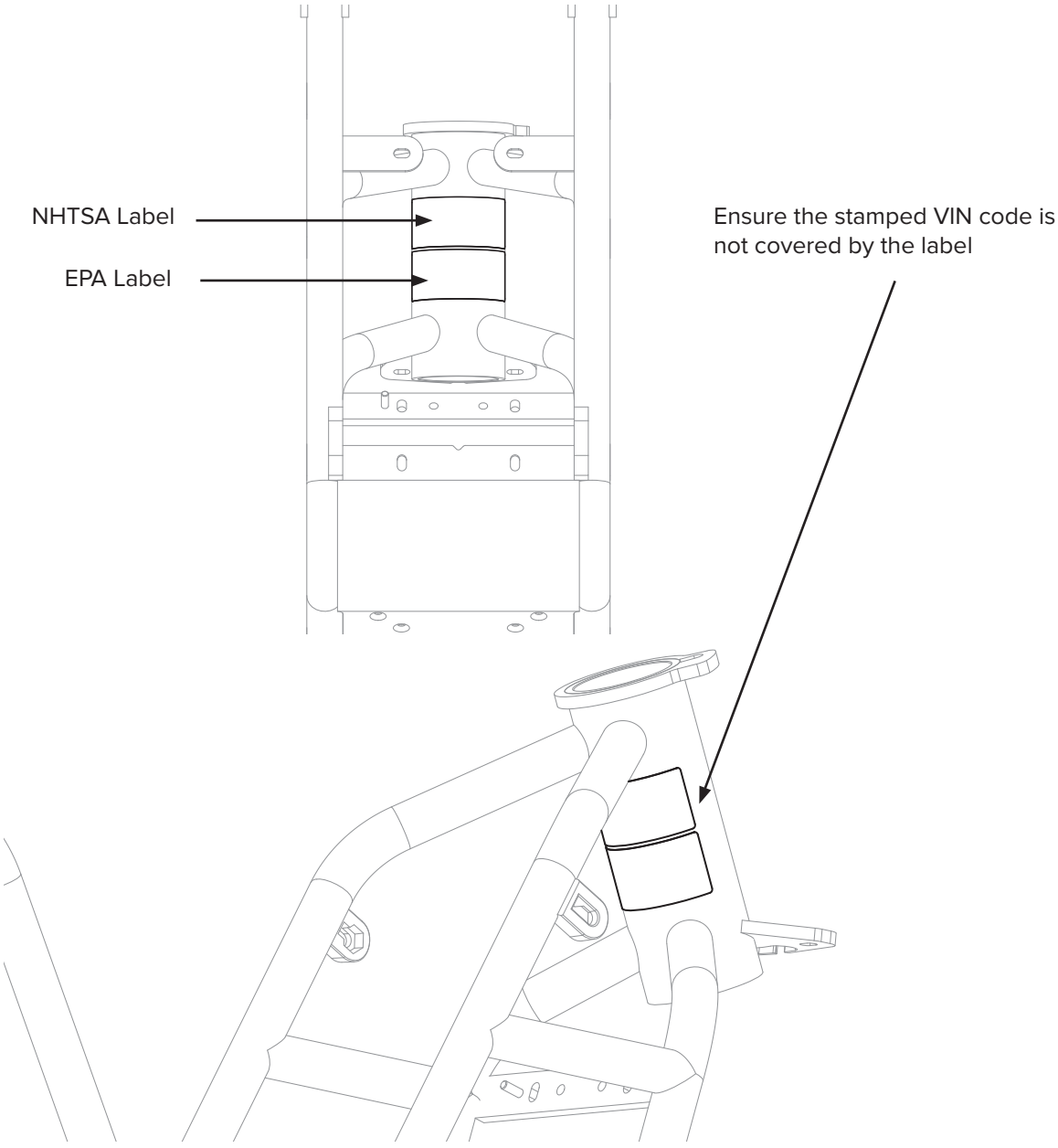
## US bikes only

Required parts:
- Frame
- NHTSA compliance label
- EPA emissions label

A. Attach the two US compliance labels to the rear of the frame head-tube.

Install the NHTSA label on the top and the EPA label underneath.

**DO NOT attempt to remove either label once adhered to frame as this will damage the label beyond repair**




## QC CHECKPOINT - see next page

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

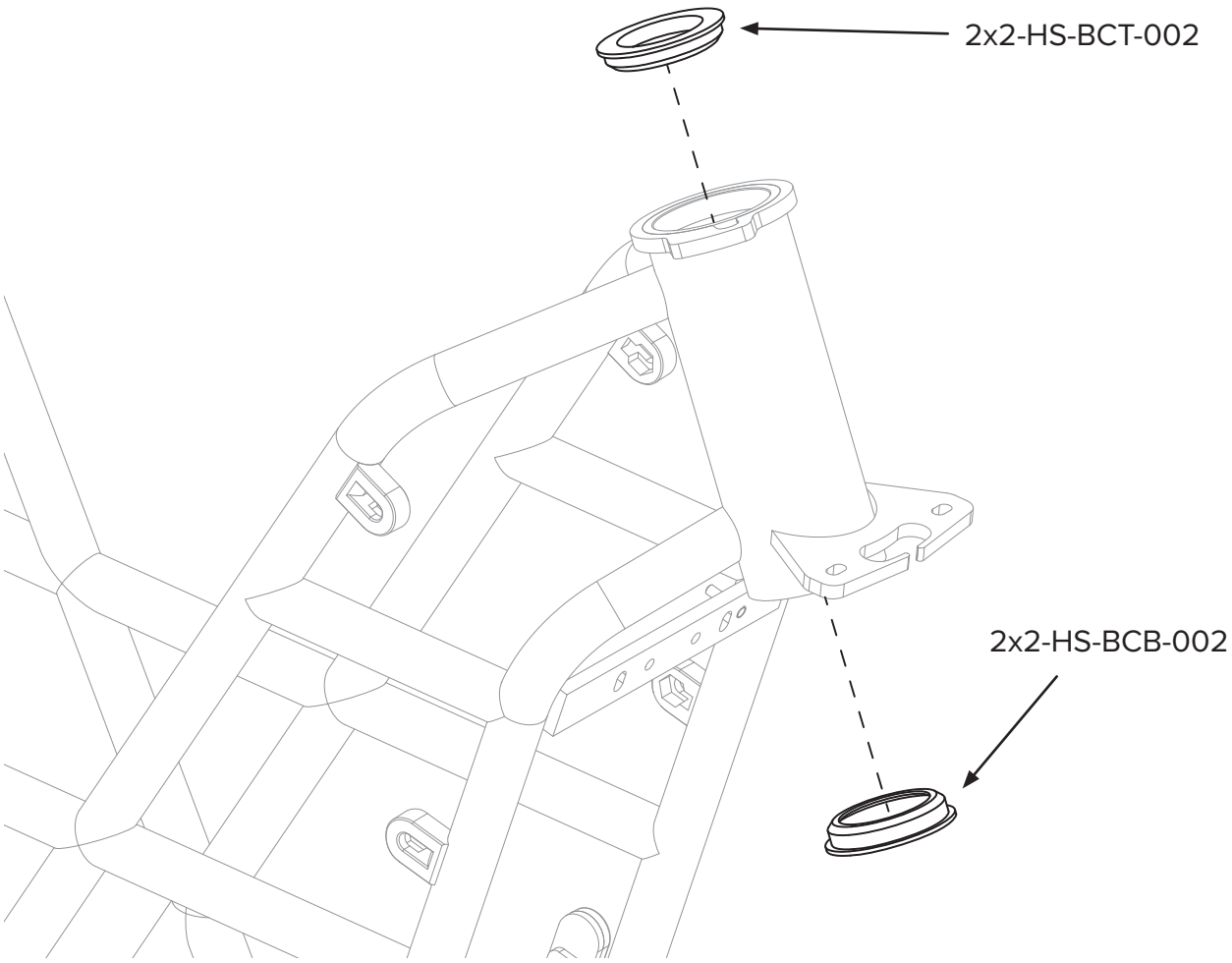
4. Labels are aligned and free from damage.

## 2.2 Headset Cups install

Required parts:
- Frame (2x2-FA-FRA-002)
- Headset cup top (2x2-HS-BCT-002)
- Headset cup botom (2x2-HS-BCB-002)

Tools required:
- Press machine

A. Using the press machine, install the two headset cups. Cup with small opening is installed in the top, cup with large opening is installed in the bottom.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub-assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

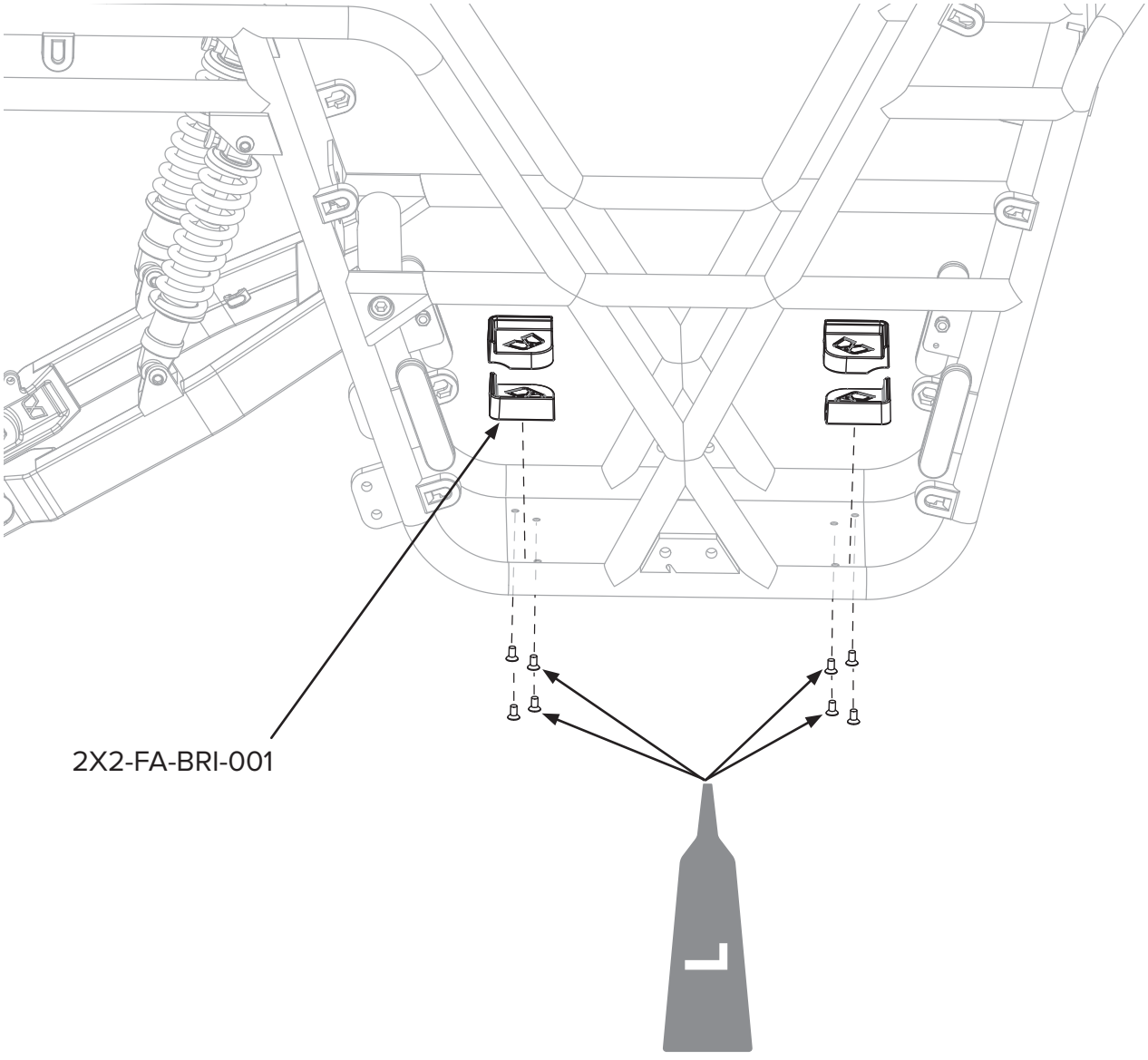
4. Cups are well seated in head-tube.

## 2.3 Battery riser install

Required parts:
- Frame (2X2-FA-FRA-002)
- Battery risers (2X2-FA-BRI-001)
- M5 x 10mm Torx countersink screws x8 Needs loctite Torque to 3.5 Nm

Tools required:
- T25 Torx driver

A. Install the four battery risers on to the battery tray on the frame using the M5 x 12mm countersink screws.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

## 2.4 Under battery foam and cable duct install

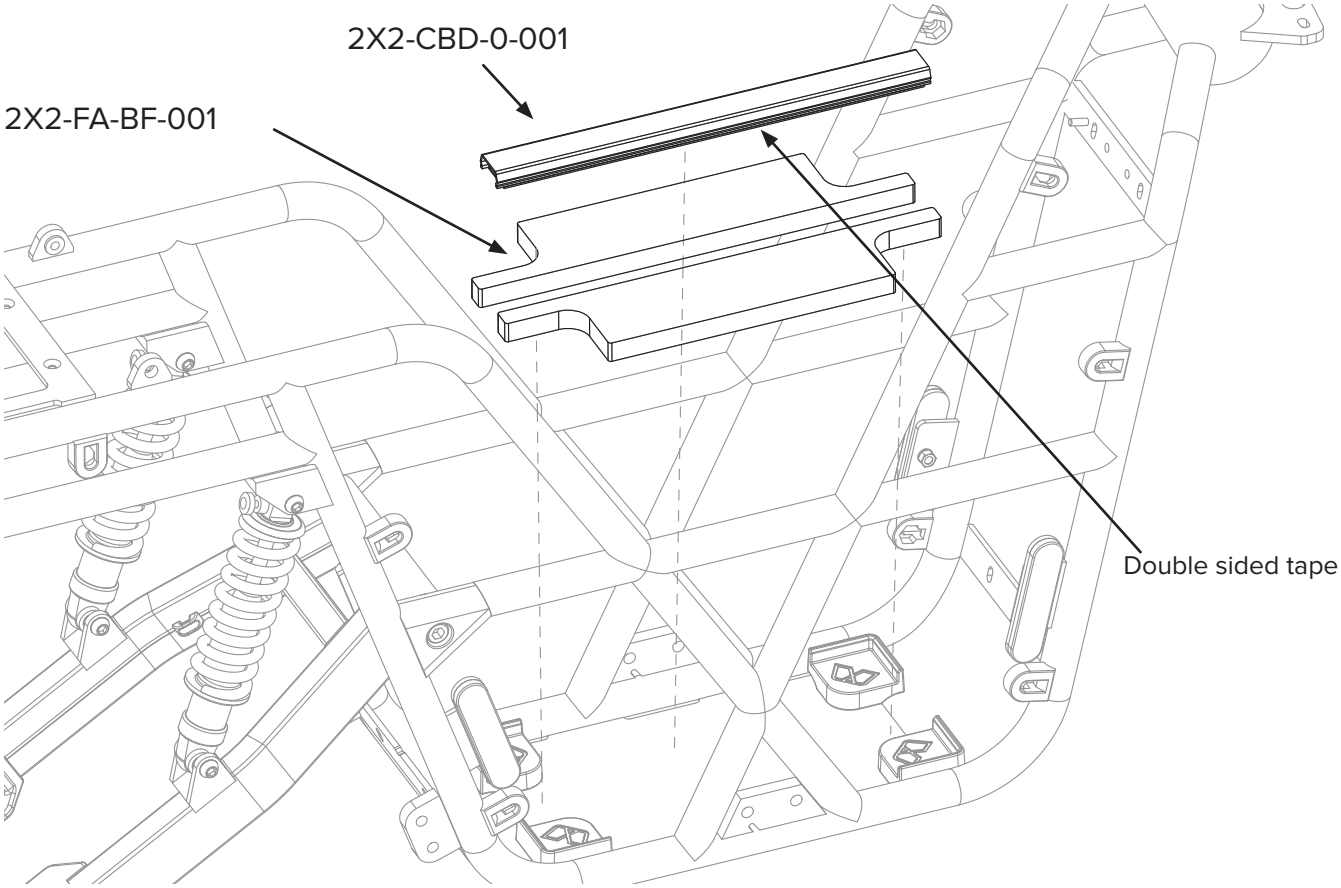
Required parts:
- Frame
- Battery foam (2X2-FA-BF-001)
- Cable duct (2X2-CBD-0-001)
- 3M VHB double sided adhesive tape

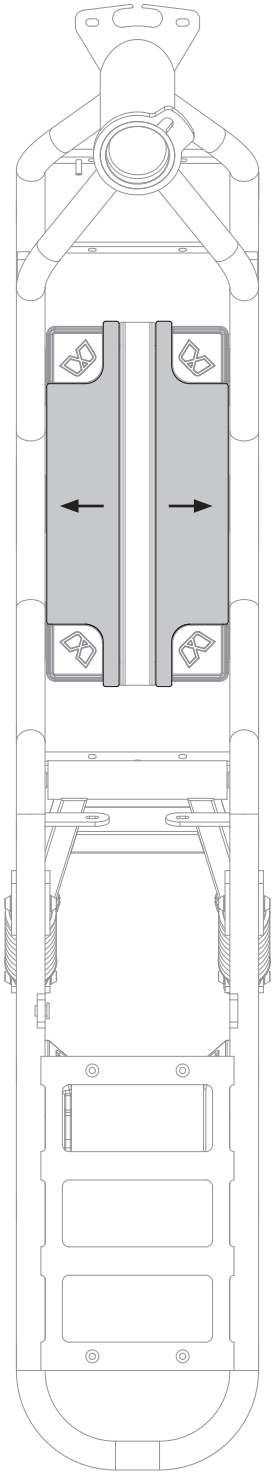
A. Ensure the Cable Duct is cut to length

B. Apply high strength double sided adhesive to the bottom of the Cable Duct and Under Battery Foams.

C. Apply foam to bottom plate on frame lining up the cut-out details with the Battery Risers.

D. Apply Cable Duct to bottom plate on frame in the centre between the two Under Battery Foam pieces.





Ensure the foam is installed as far to the outside as possible, this makes installing the cable duct easier.

## QC CHECKPOINT - see next page

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

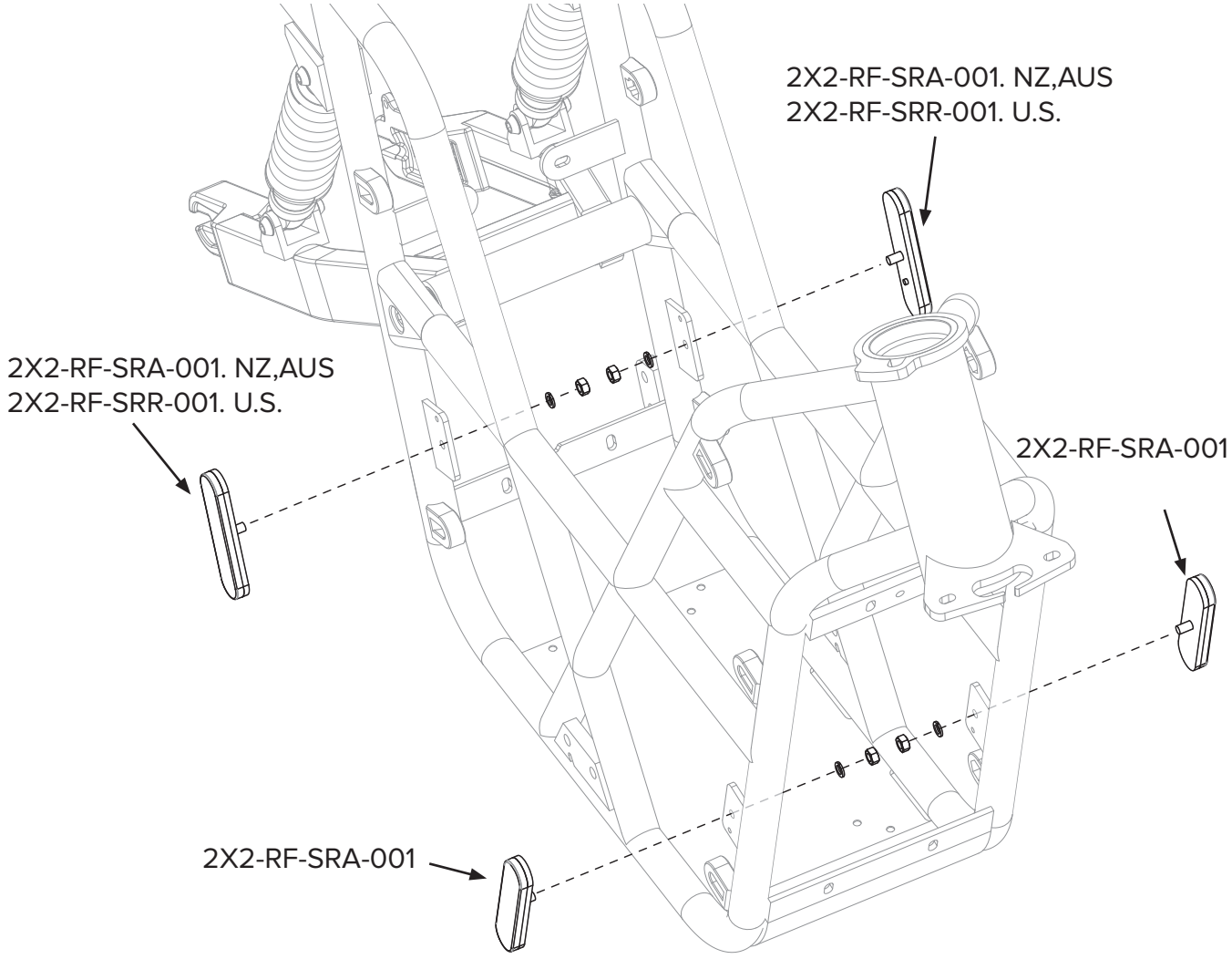
4. Foam and cable duct sit down onto frame correctly.

## 2.5 Side reflector install

Required parts:
- Frame
- Side reflector Amber (2X2-RF-SRA-001) Torque to 2.5 Nm
- Side reflector Red (2X2-RF-SRR-001) Torque to 2.5 Nm
- M6 x 12.5x 1.2 flat washers x4
- M6 Nyloc nuts x4

Tools required:
- 10mm long socket

A. Install the side reflectors onto the side mounting brackets on the frame. Ensure the locating feature on the rear if the reflectors is aligned with the hole on the mount bracket.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

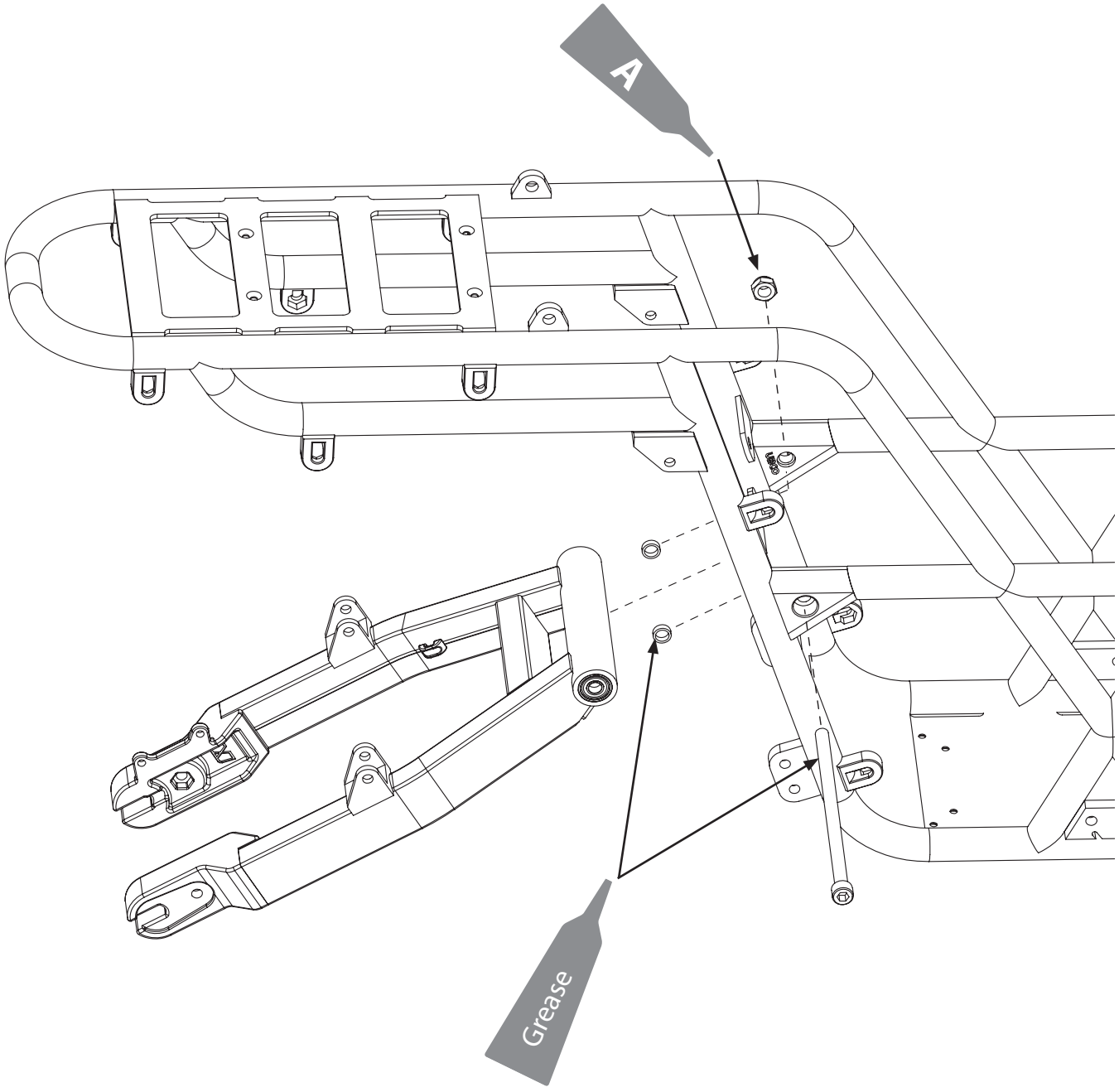
3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

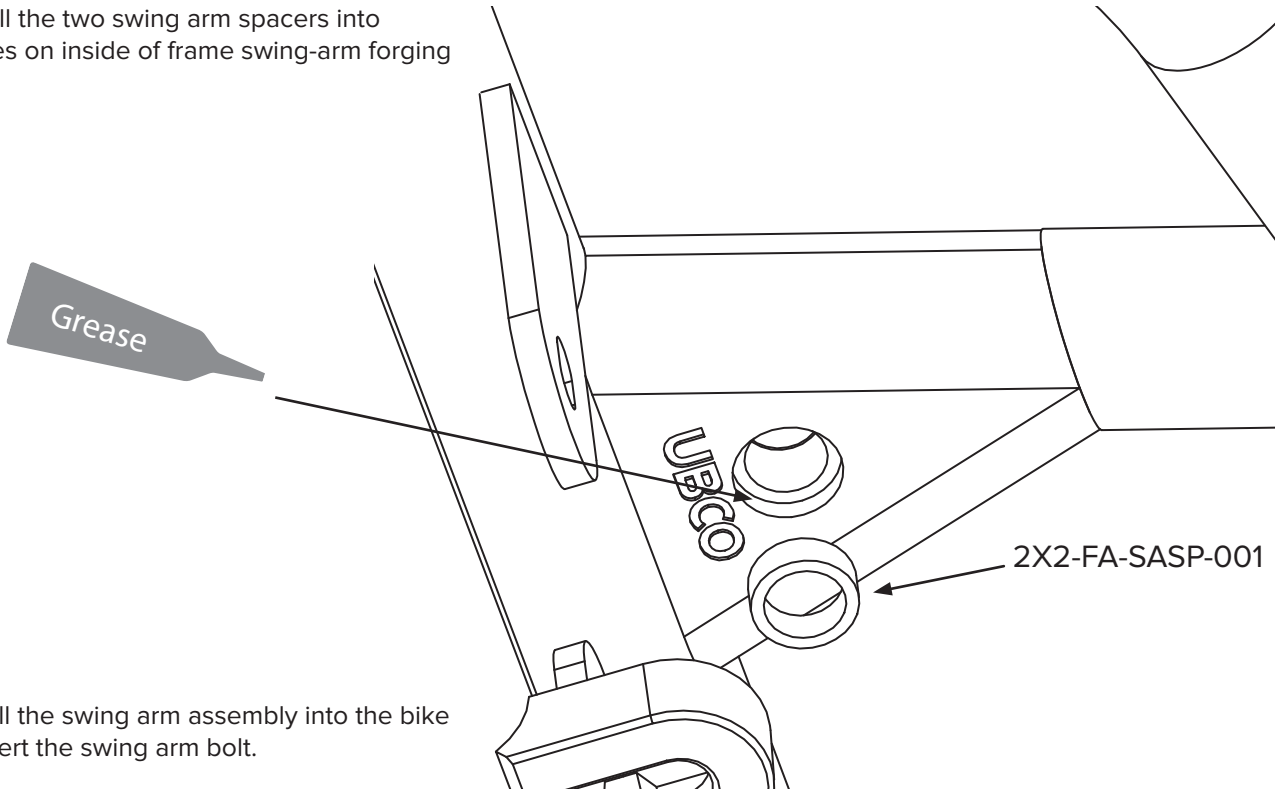
## 2.6 Swing arm installation

Required parts:
- Swing arm assembly
- Frame
- Swing arm spacer (2X2-FA-SASP-001) x2
- Rear shocks (2x2-FA-RS-001) x2
- M10 x 200 hex socket screw Torque to 28 Nm
- M10 nyloc nut
- Suspension pivot bolts x4 Torque to 6 Nm

Tools required:
- 8mm Allen key
- 5mm Allen key



A. Install the two swing arm spacers into recesses on inside of frame swing-arm forging

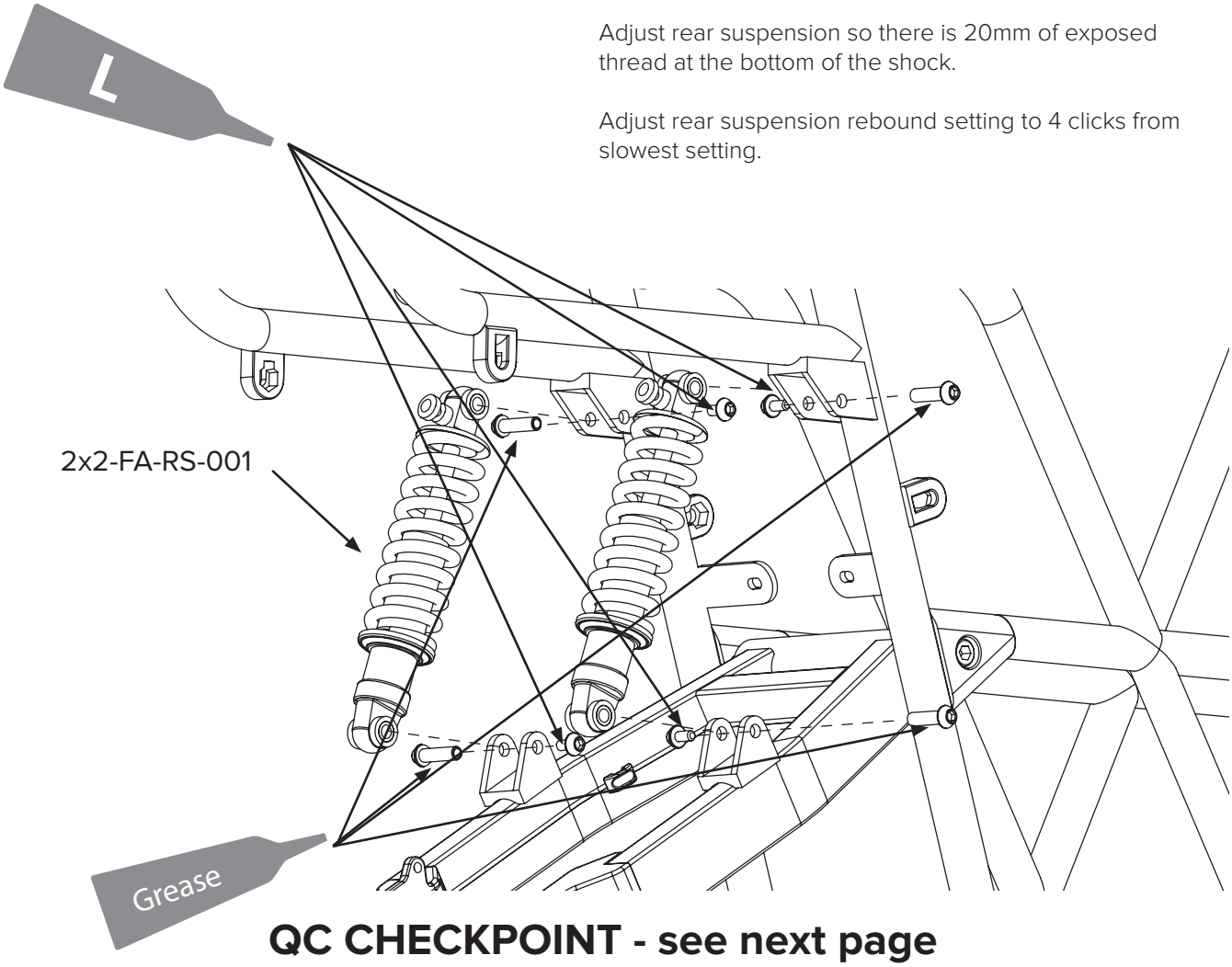



B. Install the swing arm assembly into the bike and insert the swing arm bolt.

C. Install the rear shock absorbers using the suspension pivot bolts supplied with the shocks.
Install in the orientation sown below.

Adjust rear suspension so there is 20mm of exposed thread at the bottom of the shock.

Adjust rear suspension rebound setting to 4 clicks from slowest setting.




## QC CHECKPOINT - see next page

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Suspension is set to 20mm of exposed thread at bottom.

5. Fasteners are torqued correctly.

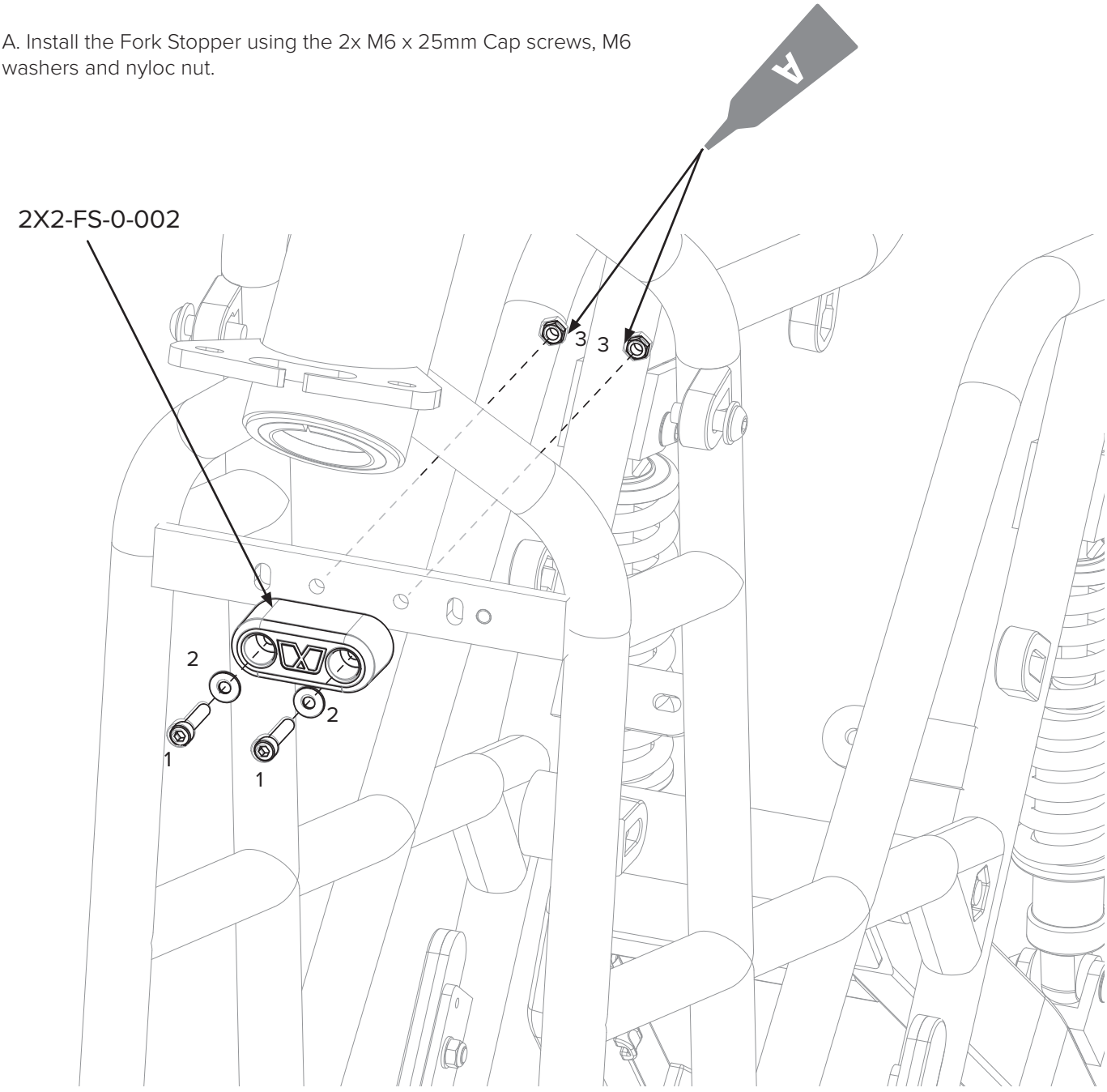
6. Grease and anti-seize applied where specified.

## 2.7 Fork Stopper install

Required parts:
- Frame
- Fork Stopper (2X2-FS-0-002)
- M6 x 25 Hex socket Cap screw x2 #1 Torque to 2 Nm
- Flat washer M6 x 12.5 x 1.2 x2 #2
- M6 nyloc nut x2 #3

Tools required:
- 10mm Socket
- 5mm Allen key

A. Install the Fork Stopper using the 2x M6 x 25mm Cap screws, M6 washers and nyloc nut.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

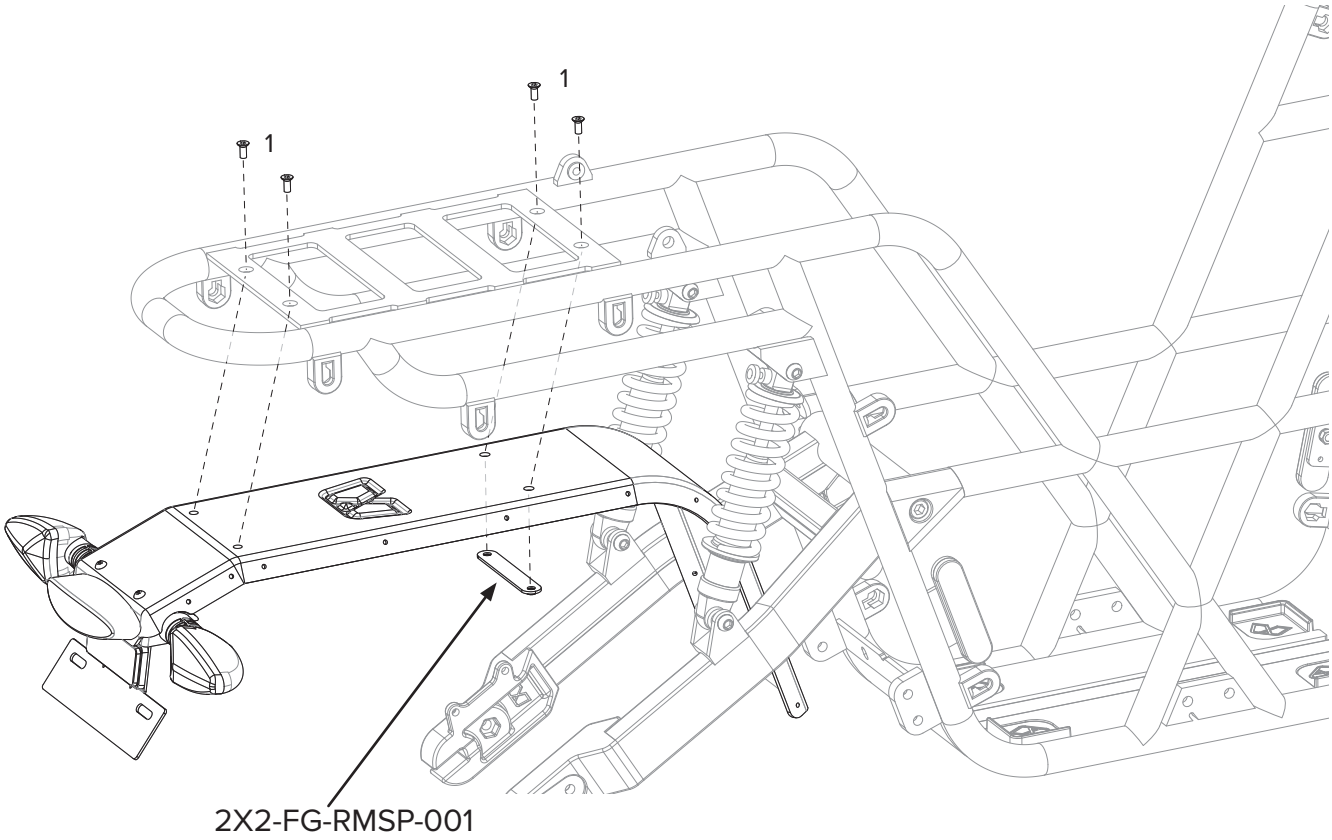
4. Fasteners are torqued correctly.

## 2.8 Rear mudguard assembly install

Required parts:
- Frame
- Rear mud guard assembly
- Rear mud guard screw plate (2X2-FG-RMSP-001) x1
- M5 x 12mm Torx countersink screws x4 #1 needs loctite Torque to 3 Nm

Tools required:
- T25 Torx driver

A. Install the rear mudguard assembly to the rear carrier of the frame using the four M5 x 12mm countersink Torx screws and rear mudguard screw plate.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

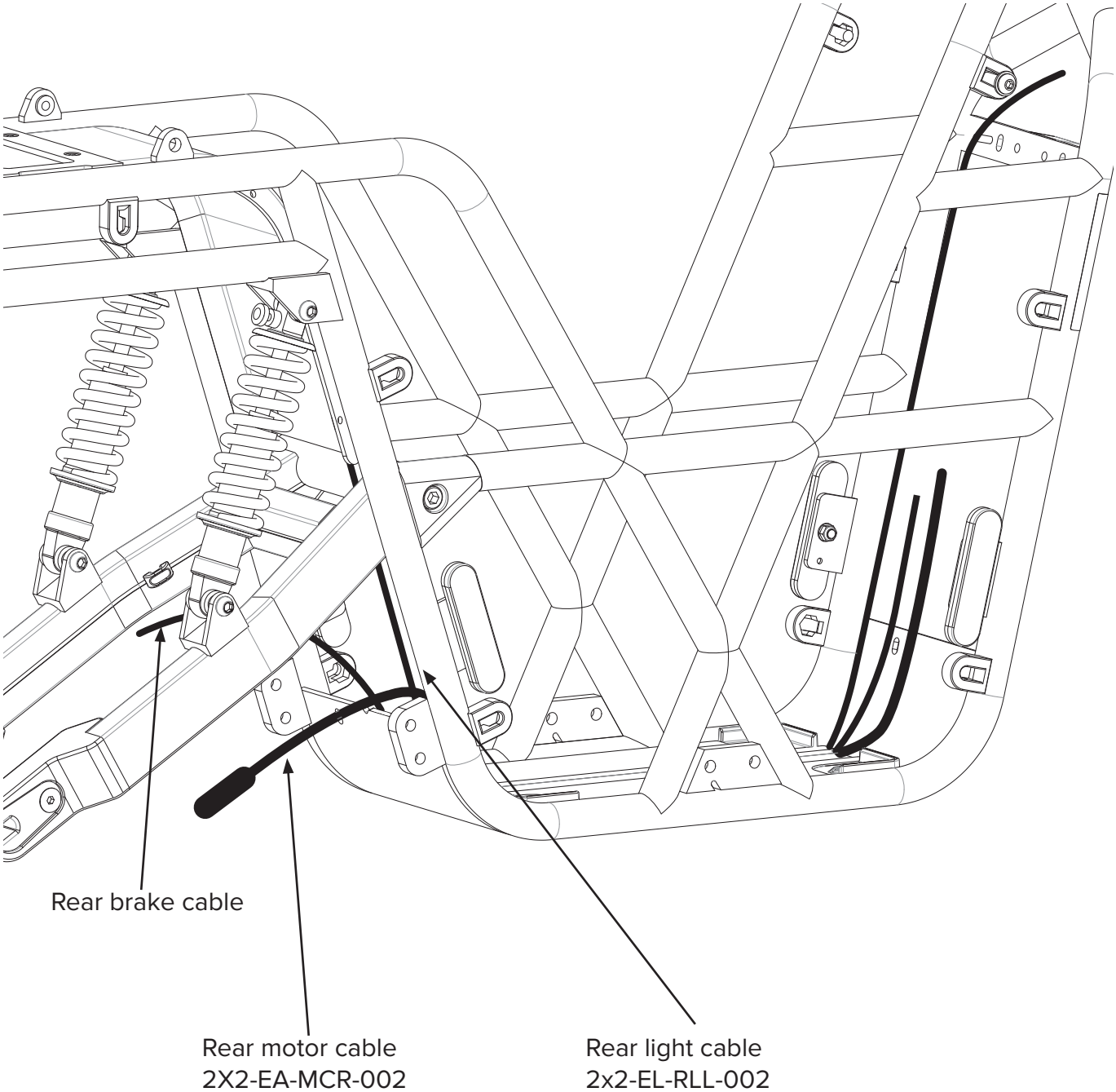
2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

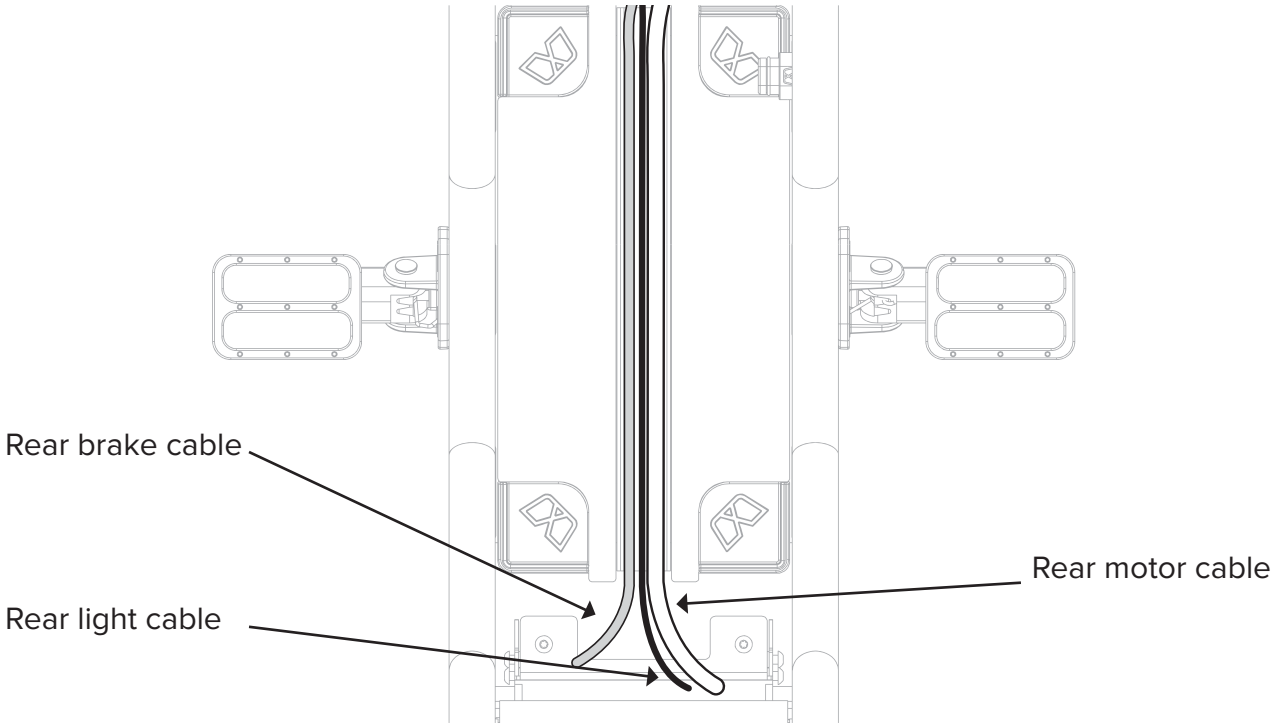
4. Fasteners are torqued correctly.

## 2.9 Rear cable routing

Required parts:
- Frame assembly
- Rear motor cable (2X2-EA-MCR-002)
- Rear Brake unit (2X2-BR-RBU-002)



Front of bike




Rear of bike

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

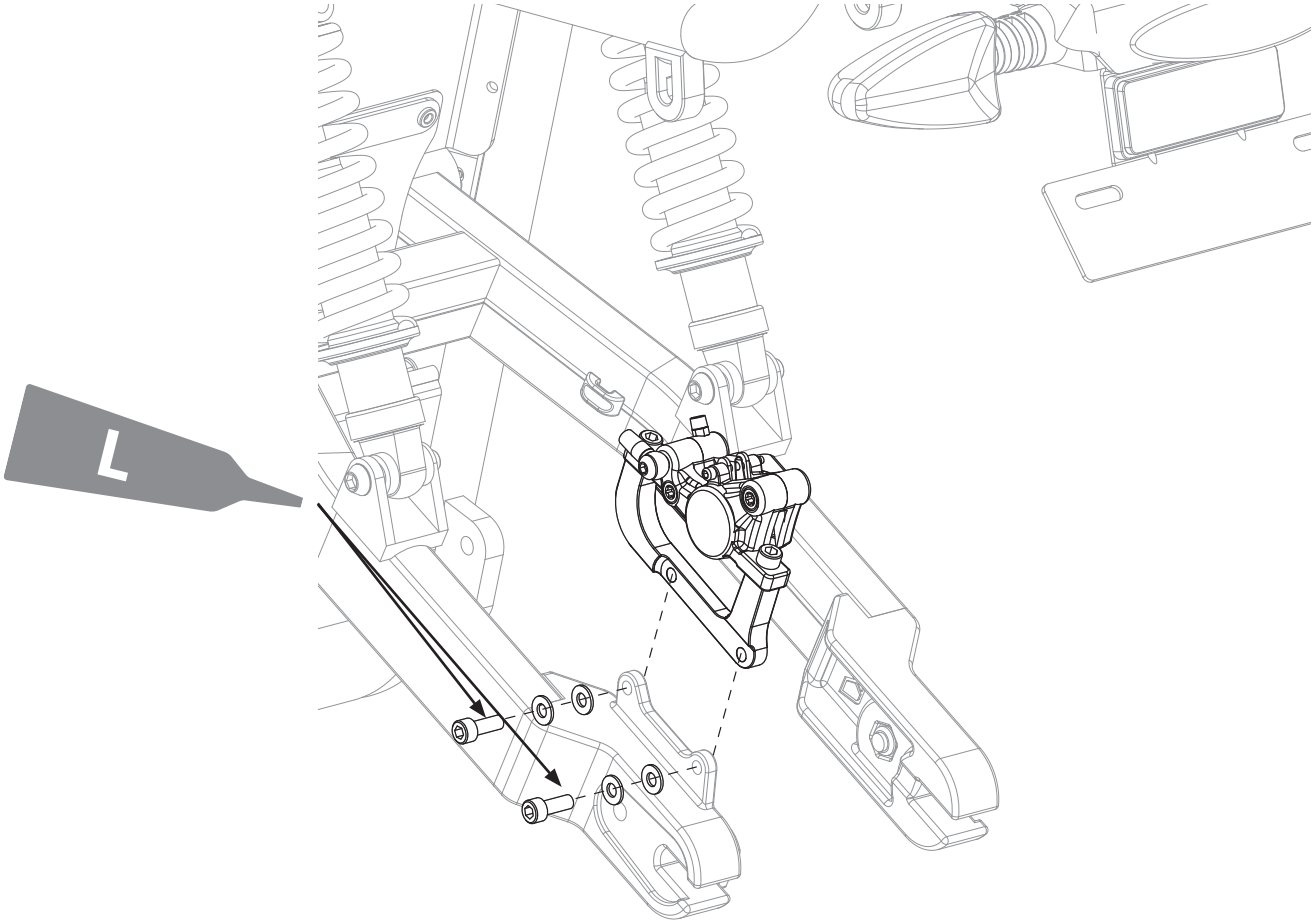
3. Cables routed to correct side.

## 2.10 Rear Brake Caliper install

Required parts:
- Frame
- Rear Brake Unit ( 2X2-BR-RBU-002)
- Rear brake adapter ( 2X2-BR-RBA-002)
- M6 x 16 Hex Socket Cap Screw x2 Needs loctite Torque to 12 Nm
- M6 x 12.5 x 1.2 flat washer x4

Tools required:
- 5mm Allen key

A. Install the rear brake caliper and adapter brake into the mounting detail on the left hand side of the swing arm using the 2x M6 x 16mm Cap screws and 4x M6 washers. 2x washers should be installed under the head of each screw to ensure the screws do not interfere with the brake disk.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

## 2.11 Rear Console Install

Required parts:
- Frame
- Rear Console base (2X2-RC-B-002)
- Rear Console cover (2X2-RC-C-002)
- Swing Arm mud flap (2X2-FG-SAMF-001)
- Rear Mudguard screw plate (2X2-FG-RMSP-001)
- M5 x 10 Torx button head screws x6 #1 Torque to 3Nm
- M5 x 20 Torx button head screws x2 #2 Torque to 3 Nm
- M5 x 12.5 x 1.2 Flat washer x2 #3

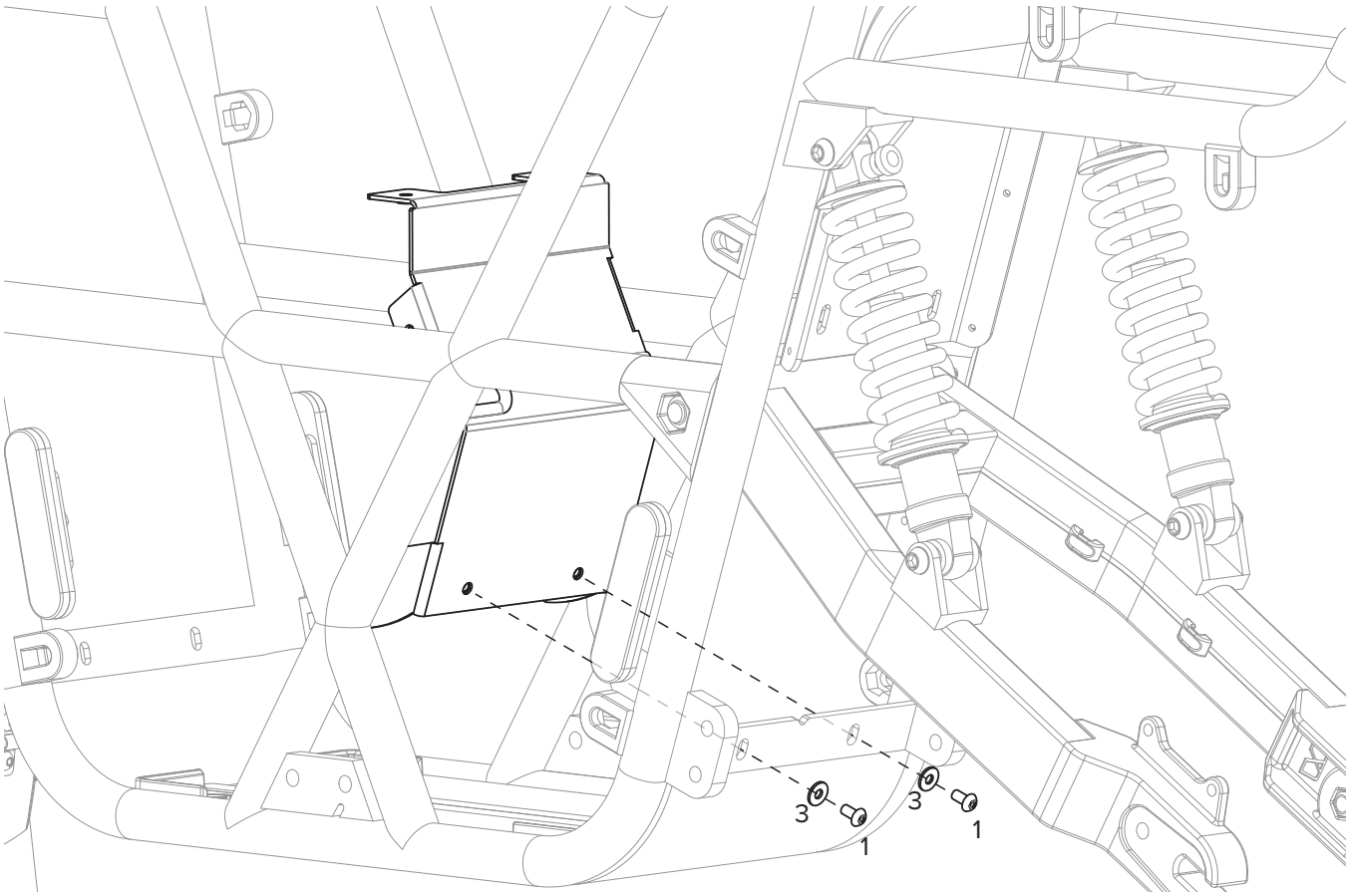
Tools required:
- T25 Torx driver

A. Route the rear cables through the cable exit slots in the rear console base:
Rear brake cable should be on the left side of the bike
Rear motor cable and rear light cable should be on the right side

B. Install the Rear Console Base onto the frame securing it at the bottom with the 2x M5 x 10mm Torx screws and 2x M5 washers.

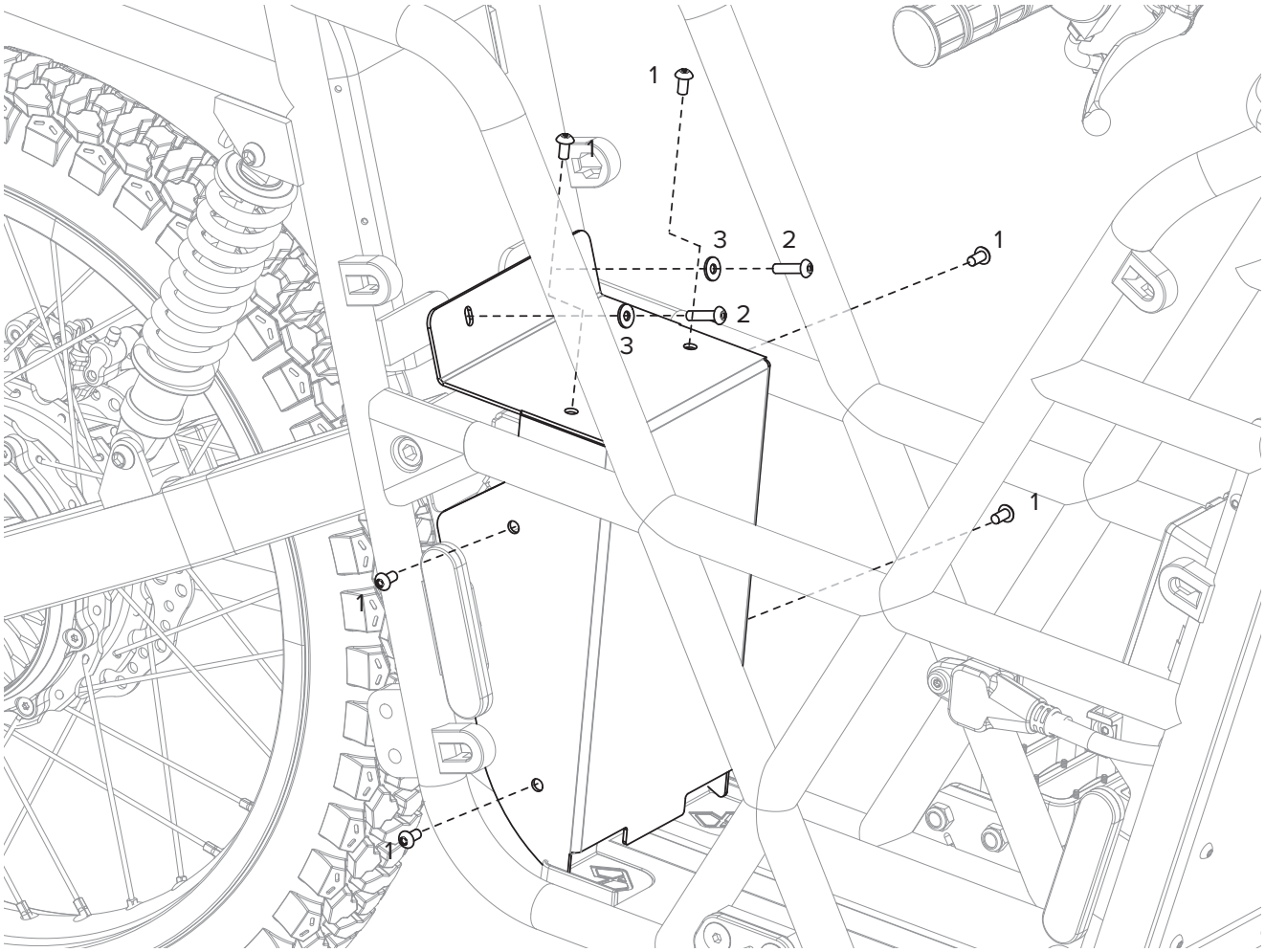
Do not completely tighten the screws until the Rear Console Cover is installed.

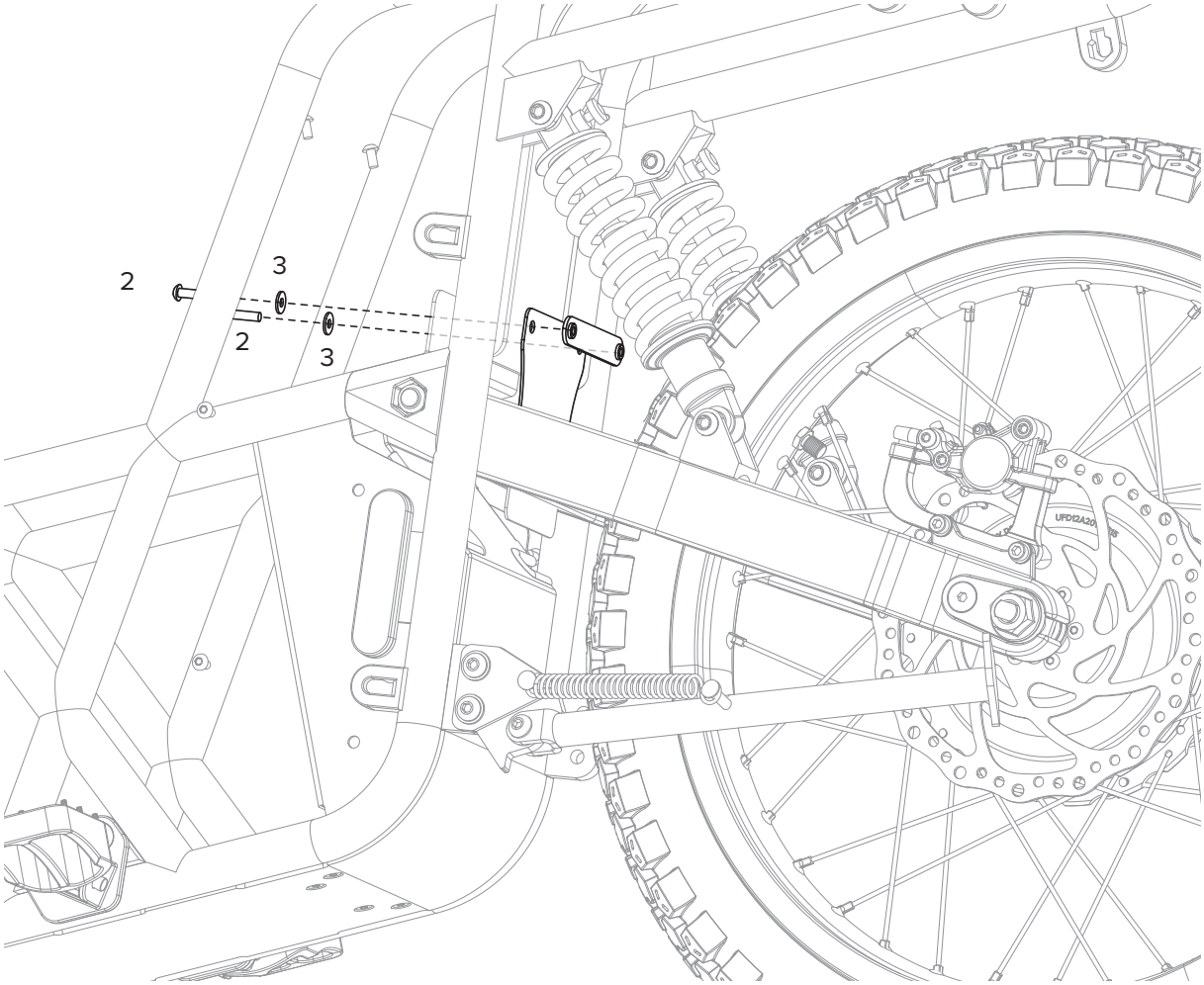
Loctite should be applied to all screws that do not use a nyloc nut or spring washer to fasten.



C. Once all cables have been routed through the rear console, install the rear console cover using 4x M5 x 10mm Torx screws to fasten the sides and 2x M5 x 10mm Torx screws to fasten the top.

B. Fasten the top flange of the Rear Console Cover to the frame using the 2x M5 x 20mm Torx screws, M5 washers and Rear Mudguard Screw Plate. Mount the Swing arm Mud Flap between the Rear Mudguard Screw Plate and frame.






# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

## 2.12 Fork and Headset install

Required parts:
- Fork (2X2-FF-F-002)
- Headset Bearing Top Cap (2X2-HS-BTC-002)
- Headset (2X2-HS-0-002)
- Stem (2X2-HB-STM-001)
- Steerer Anti-Spin Dowel (2X2-HS-SASD-001)

Tools required:
- 8mm Allen key
- 5mm Allen Key

A. Ensure the crown race is installed onto the fork steering tube before assembling into bike.

B. Install the large headset bearing onto the fork steering tube and insert the fork through the frame head tube

C. Insert the small headset bearing onto the fork steering tube followed be the compression ring.

C. Insert the small headset bearing onto the fork steering tube followed be the compression ring.

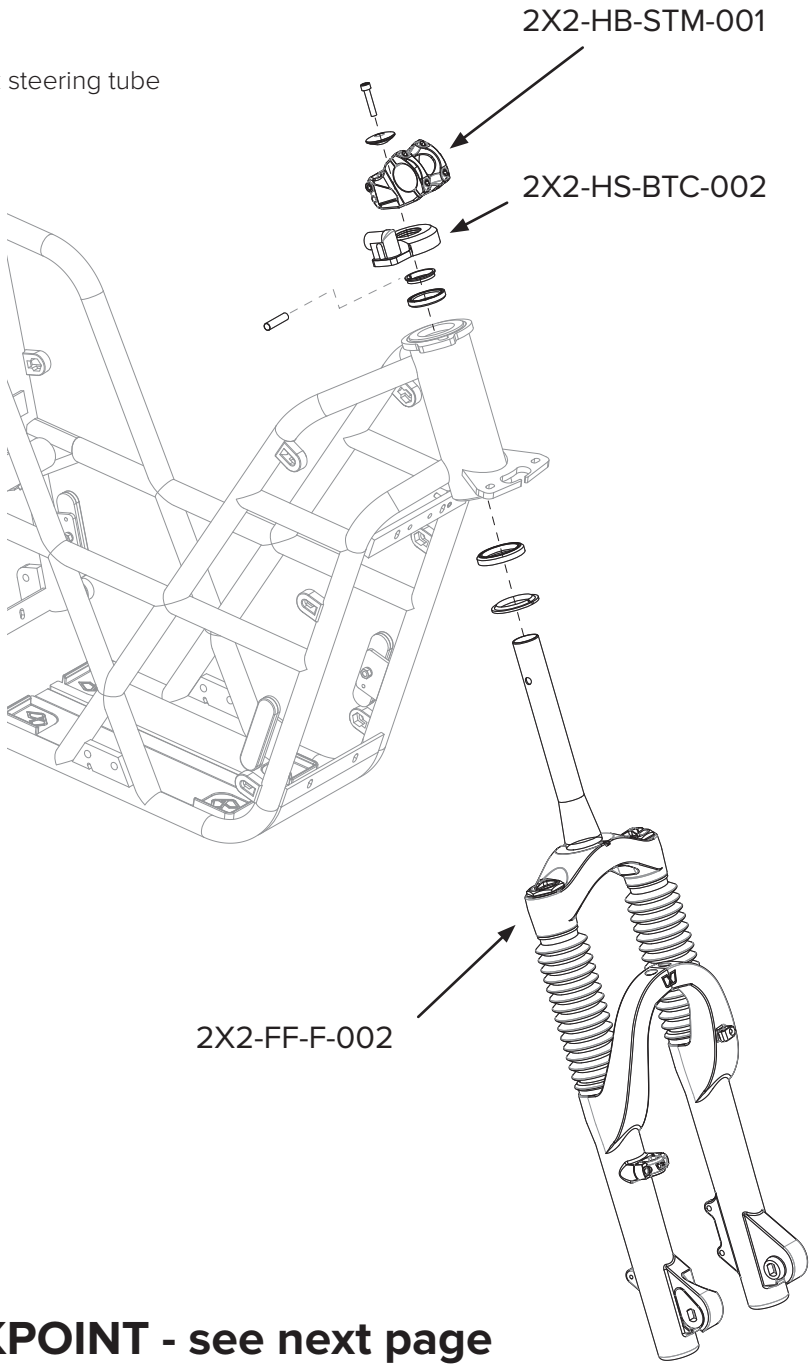
D. Fit the Steerer Anti-Spin Dowel into the hole on the fork steering tube, ensuring it is installed with equal amounts of the pin exposed on each side.

E. Slide the Headset Bearing Top Cap onto the fork steering tube and over the Anti-Spin Dowel, the dowel should slide into the cut out details on the Bearing Top Cap piece.

F. Install the Stem and headset top cap, fasten with included fastener

G. Tighten headset top cap screw to **3.5Nm**

H. Tighten the Stem side screws to **14-15Nm. DO NOT TIGHTEN ONE SCREW FULLY BEFORE THE OTHER, alternate between left and right screws when securing the stem.**




## QC CHECKPOINT - see next page

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

5. Headset id free from lateral movement.

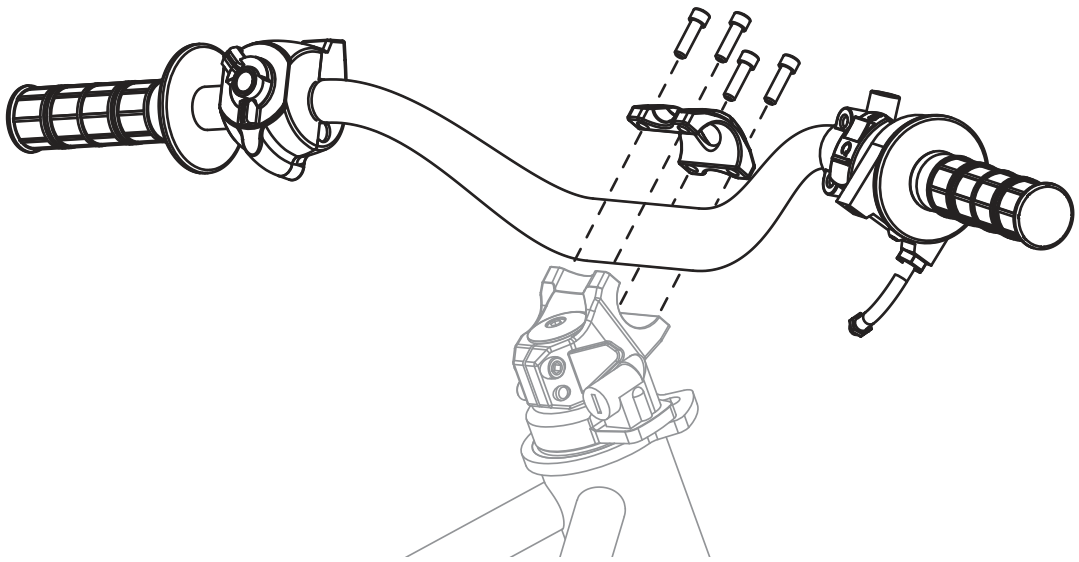
## 2.13 Handlebar install

Required parts:
- Frame (with fork and stem installed)
- Handlebar sub assembly

Tools required:
- 5mm Allen Key

A. Install the handlebar assembly onto the stem using the included stem bolts.

Torque to 6 Nm



# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

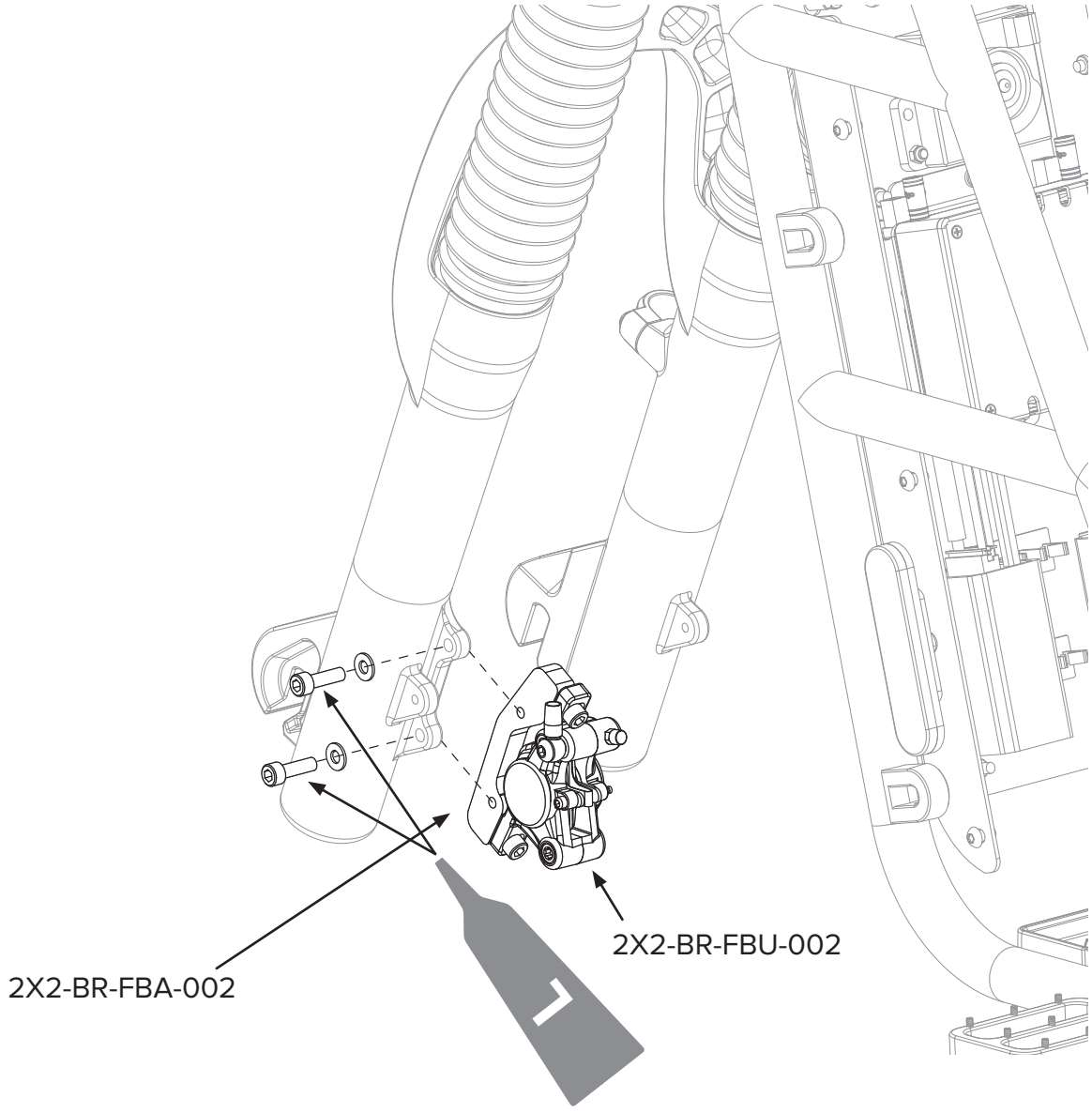
3. Parts move freely where applicable.

## 2.14 Front Brake Caliper install

Required parts:
- Frame
- Front Brake Unit (2X2-BR-FBU-002)
- Front brake adapter (2X2-BR-FBA-002)
- Front cable grommet (2X2-FA-FCG-001)
- M6 x 20 Hex Socket Cap Screws x2 Torque to 12 Nm
- M6 x 12.5 x 1.2 flat washers x2

Tools required:
- 5mm Allen Key

A. Install the front brake caliper and adapter onto the fork using the 2x M6 x 20mm Cap screws and M6 x 12.5 x1.2mm washers.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

## 2.15 Brake levers install

### 2.15.1 Brake levers install

Required parts:
- Frame
- Front Brake (2X2-BR-FBU-002)
- Front cable grommet (2X2-FA-FCG-001)

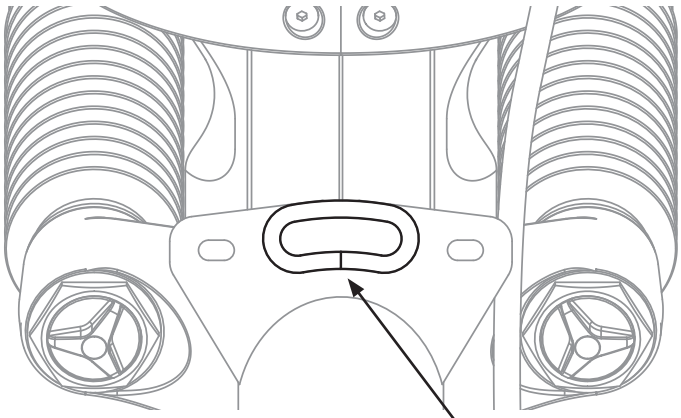
Tools required:
- 5mm Allen Key

A. Route the front brake cable through the front cable grommet and through the slot in the head-tube plate. Glue the cable grommet in to the plate observing correct grommet orientation.

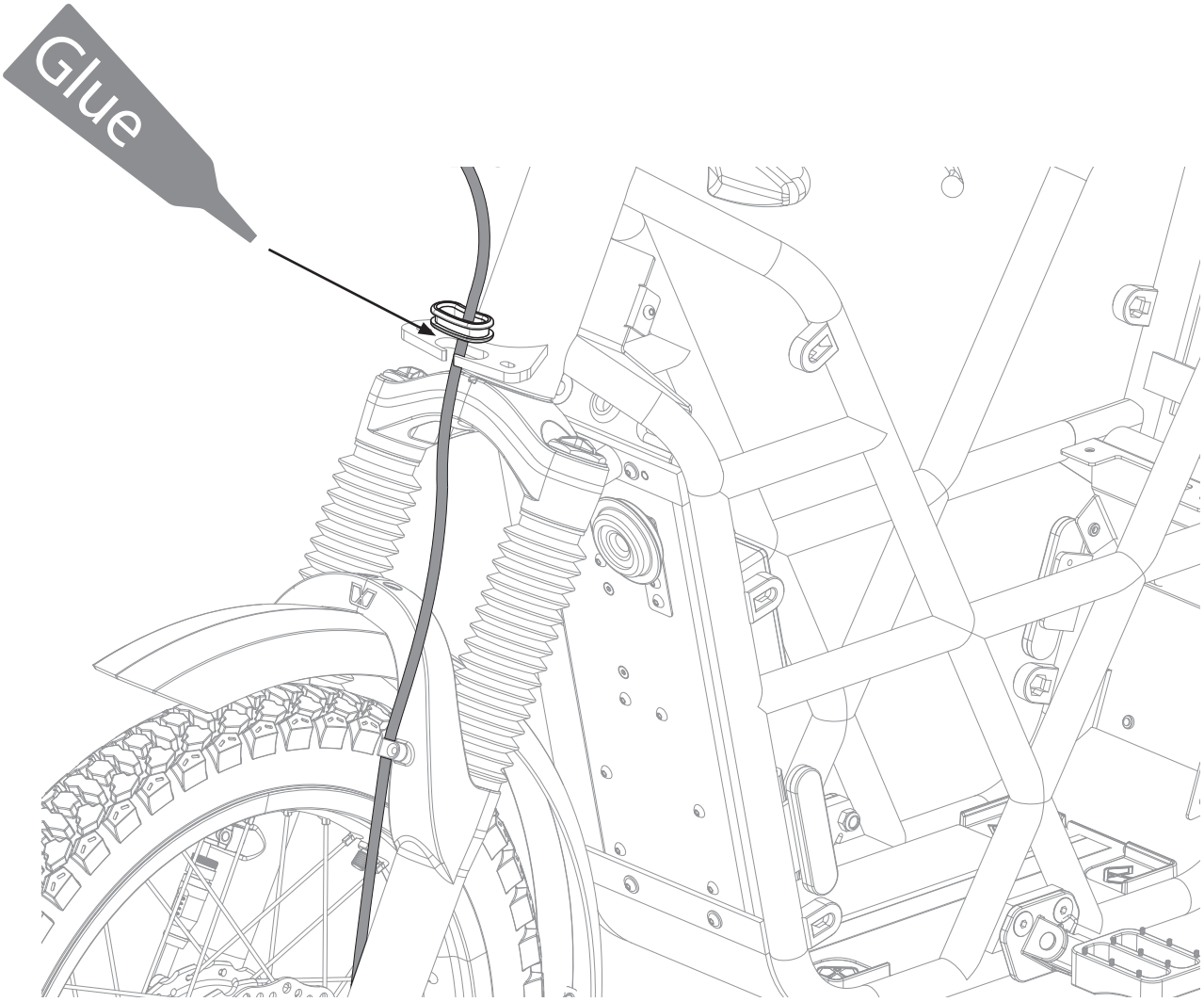
B. Secure the brake cable on the fork with the plastic fastening clip.

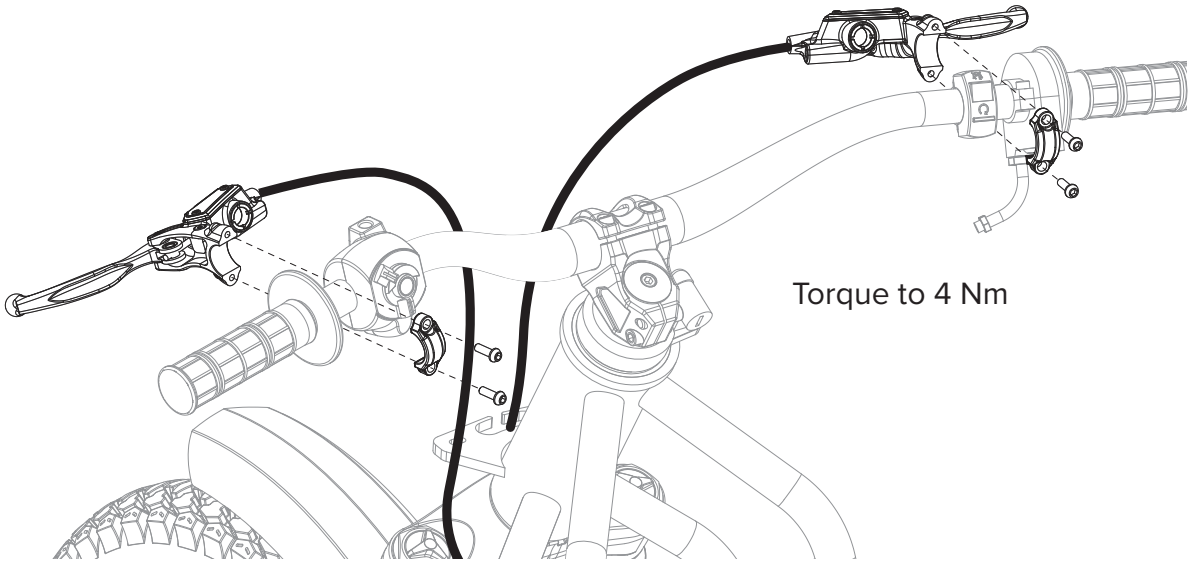
C. Mount the front brake lever to the right side of the handlebar, closest to the throttle. **Torque to 4Nm**

D. Mount the rear brake lever to the left side of the handlebar, between the bar control and grip. Leave a gap between grip and brake lever to match right side placement. **Torque to 4Nm**



Grommet split should be located towards the head-tube




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Glue applied where specified.

4. Excess glue is cleaned.

5. Brake levers are mounted on correct side.

## 2.16 Headlight assembly install

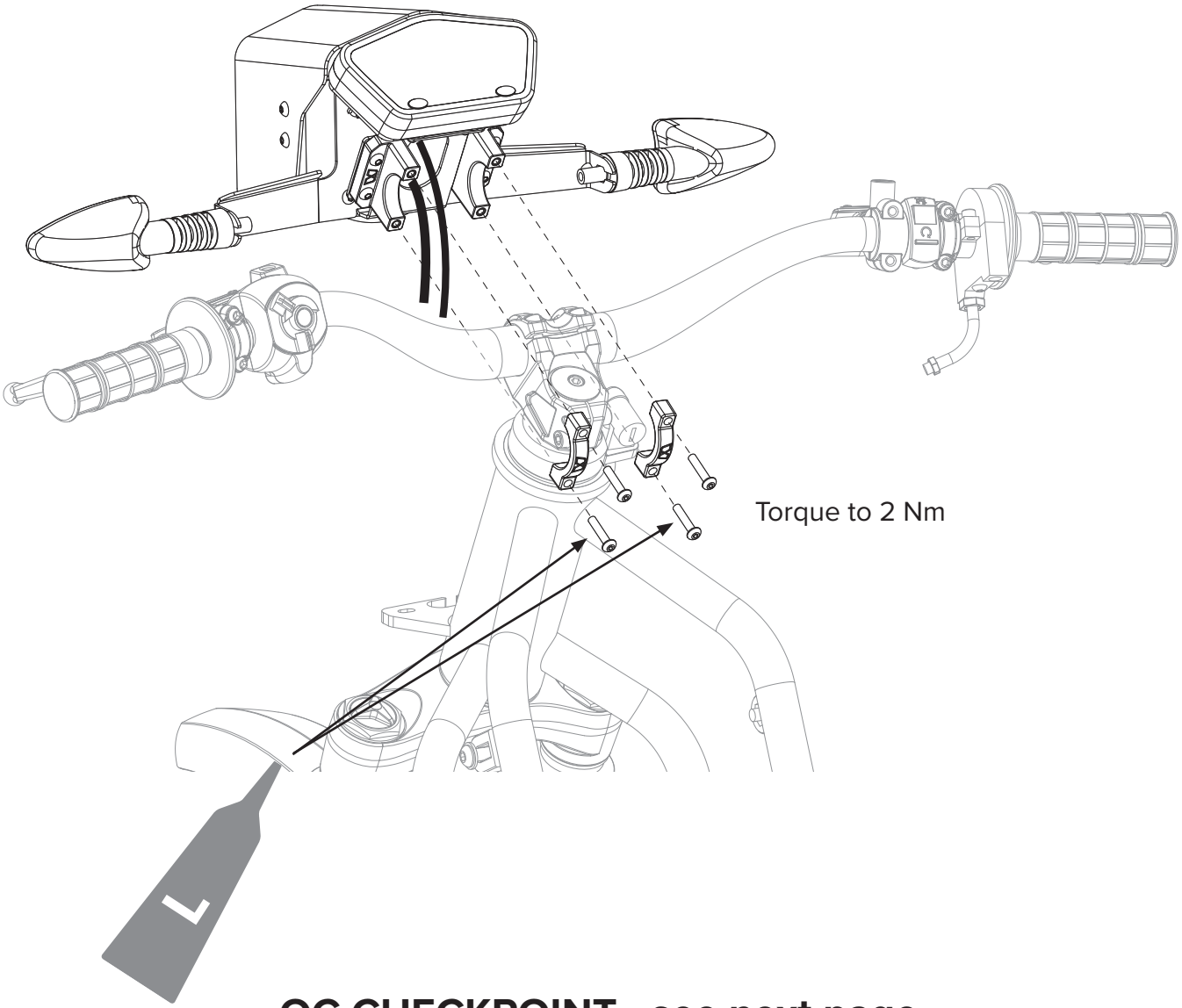
Required parts:
- Frame (with handlebar installed)
- Headlight sub assembly

Tools required:
- 3mm Allen Key

A. Mount the headlight sub-assembly with attached cables onto the handlebars using the headlight clamps installed on the headlight sub assembly. Fasten with the 3mm Allen key. **Torque to 2Nm**

B. Connect the Brake switches to the matching connectors on the bar loom. These can be plugged into either plug.

C. Connect the bar control connector to the matching connector on the bar loom.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

5. Cables are accessible.

## 2.17 Front console base install

Required parts:
- Frame
- Front console base assembly
- M5 x 16mm Torx button head screws x4 #1 needs loctite Torque to 3 Nm
- Flat washer M5 x 12.5 x 1.2 x 4 #2
- M5 nyloc nut #3 Torque to 2Nm

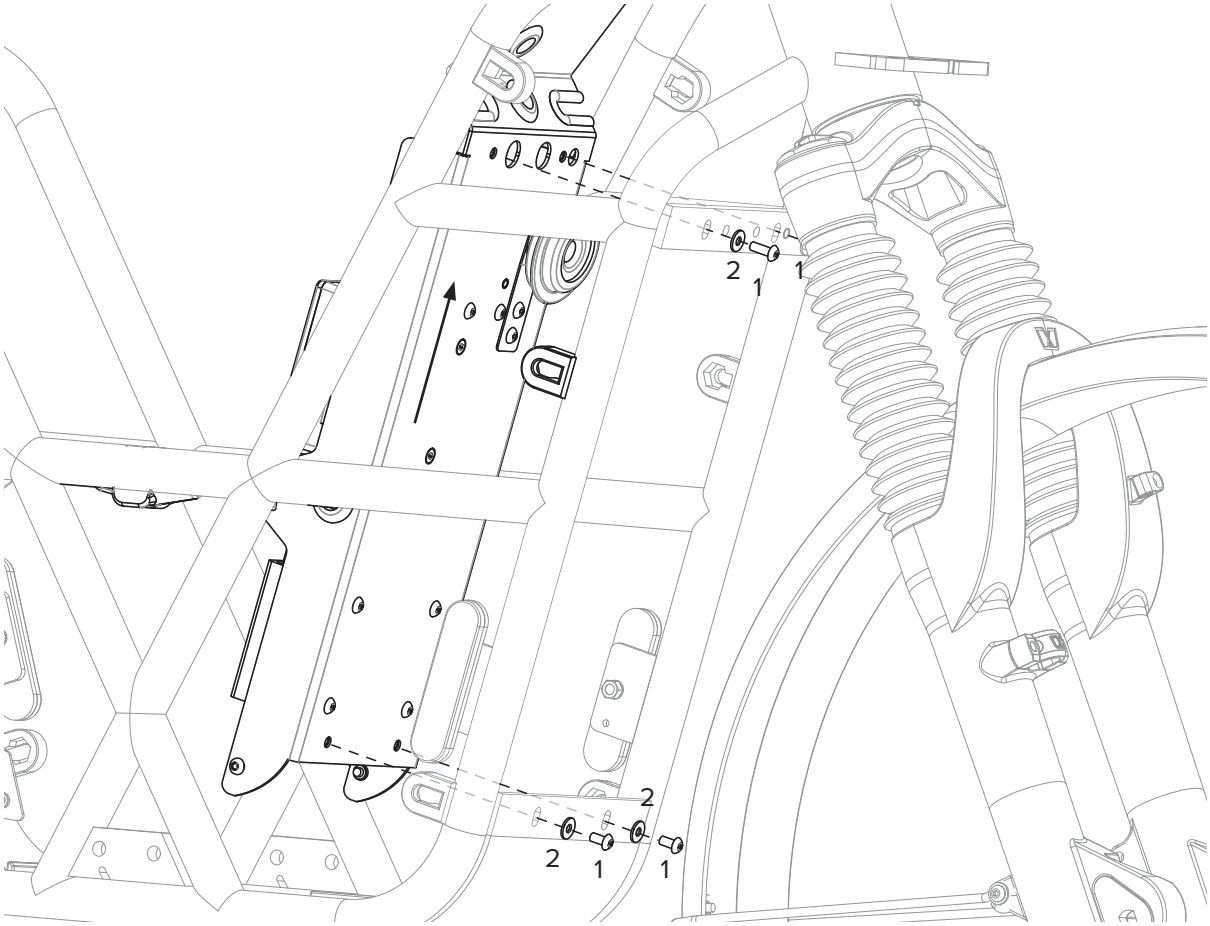
Tools required:
- T25 Torx driver
- 8mm Socket

Loctite should be applied to all screws that do not use a nyloc nut or spring washer to fasten.

A. Ensure all cables are routed before fastening front console base to frame:
15. Front motor cable (right hand side)
07. Bar loom (left hand side)
05. Bar control (left hand side)
12. Display Lead (left hand side)
Throttle cable (right hand side)
28. Motor Kill switch (right hand side)
02. 12V Loom - headlight and horn (left hand side)

B. Install the front console base into the frame using the 4x M5 x 16mm Torx screws.

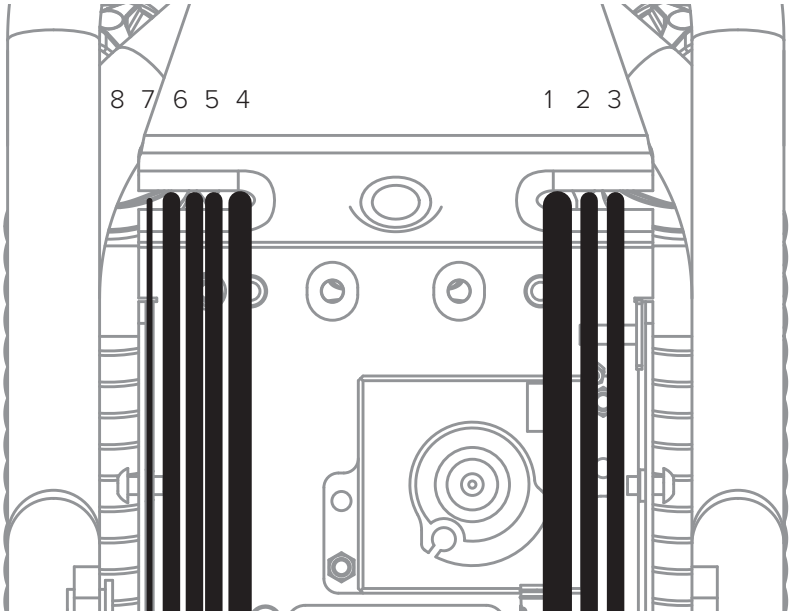
C. Mount the grounding strap to the frame stud using an M5 nyloc nut.

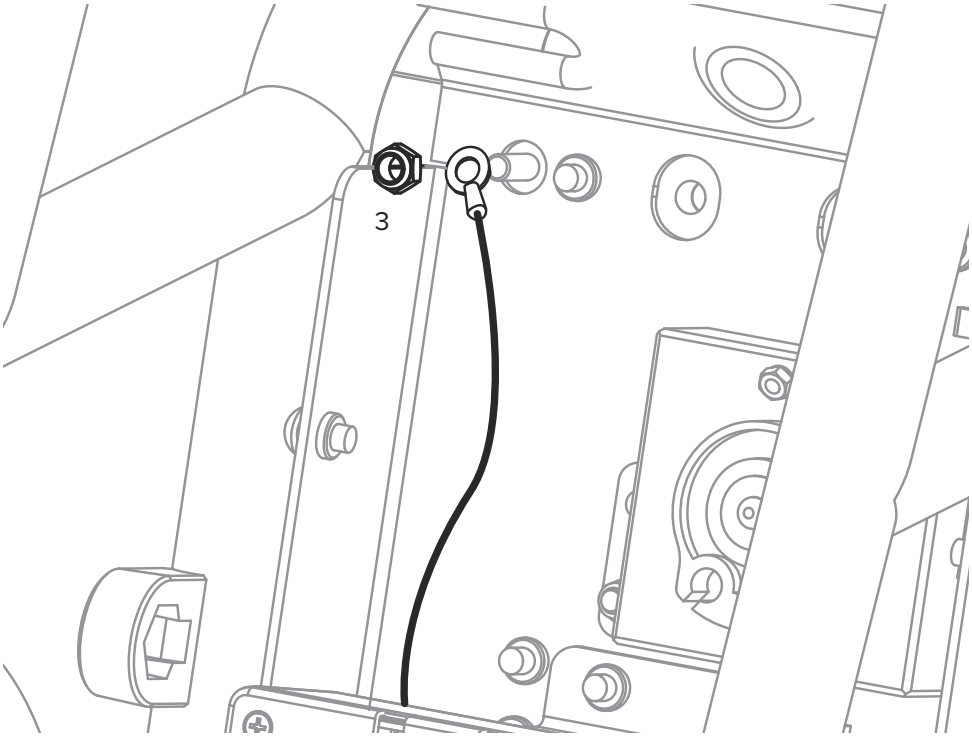


Cable order:

Right side
1. Front motor cable
2. Throttle cable
3. Kill switch cable

Left side
4. Rear brake cable
5. Headlight cable
6. Bar loom cable
7. Display cable
8. Horn cable



- Throttle cable
- Kill switch cable

- Front brake cable

-Rear brake cable

- Display cable
- Bar loom cable
- Headlight cable
- Bar control cable

## QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

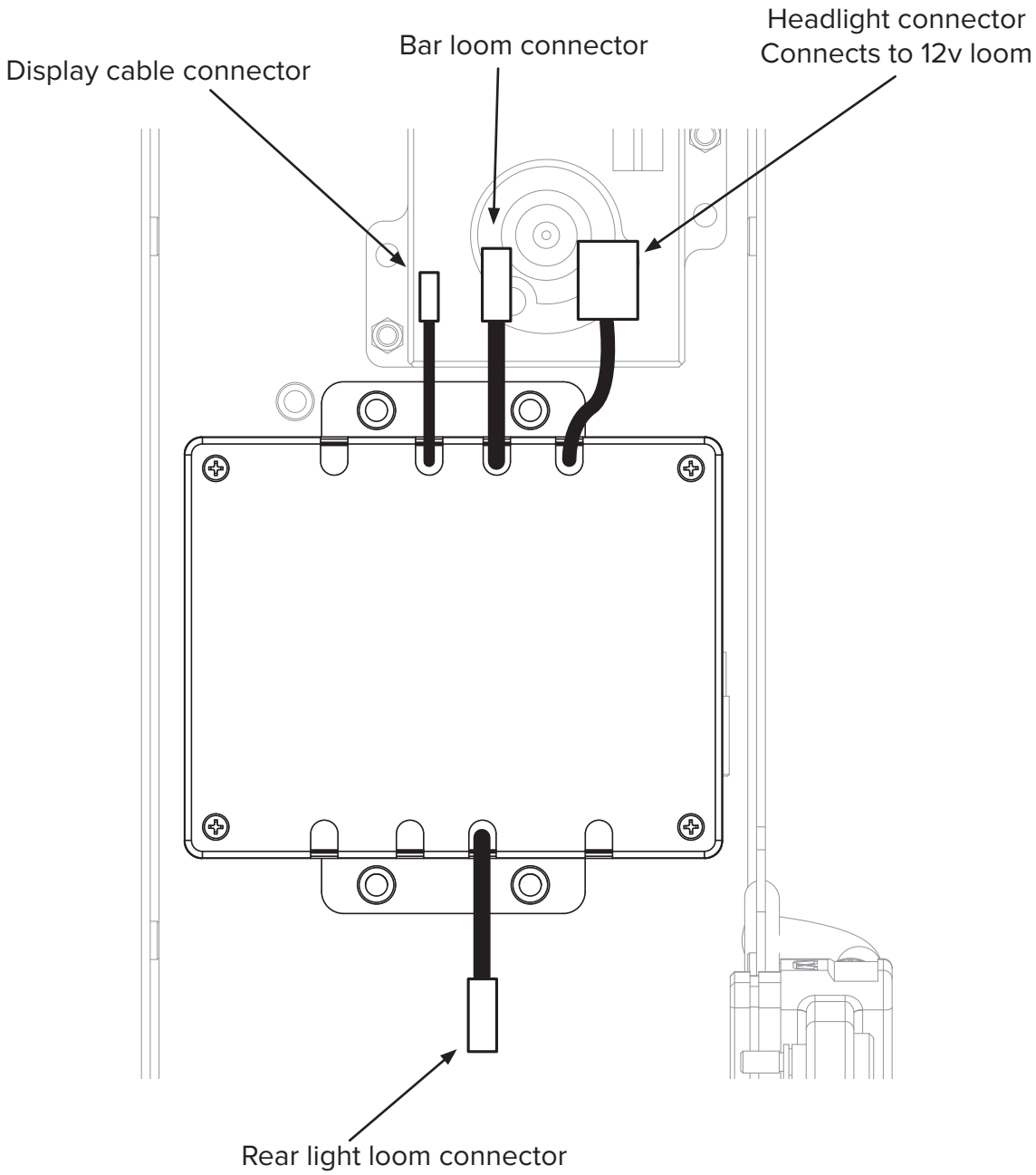
## 2.18 Cable routing and securing

A. Connect up the remaining wiring harnesses that connect to the ECU (order of connecting not important)

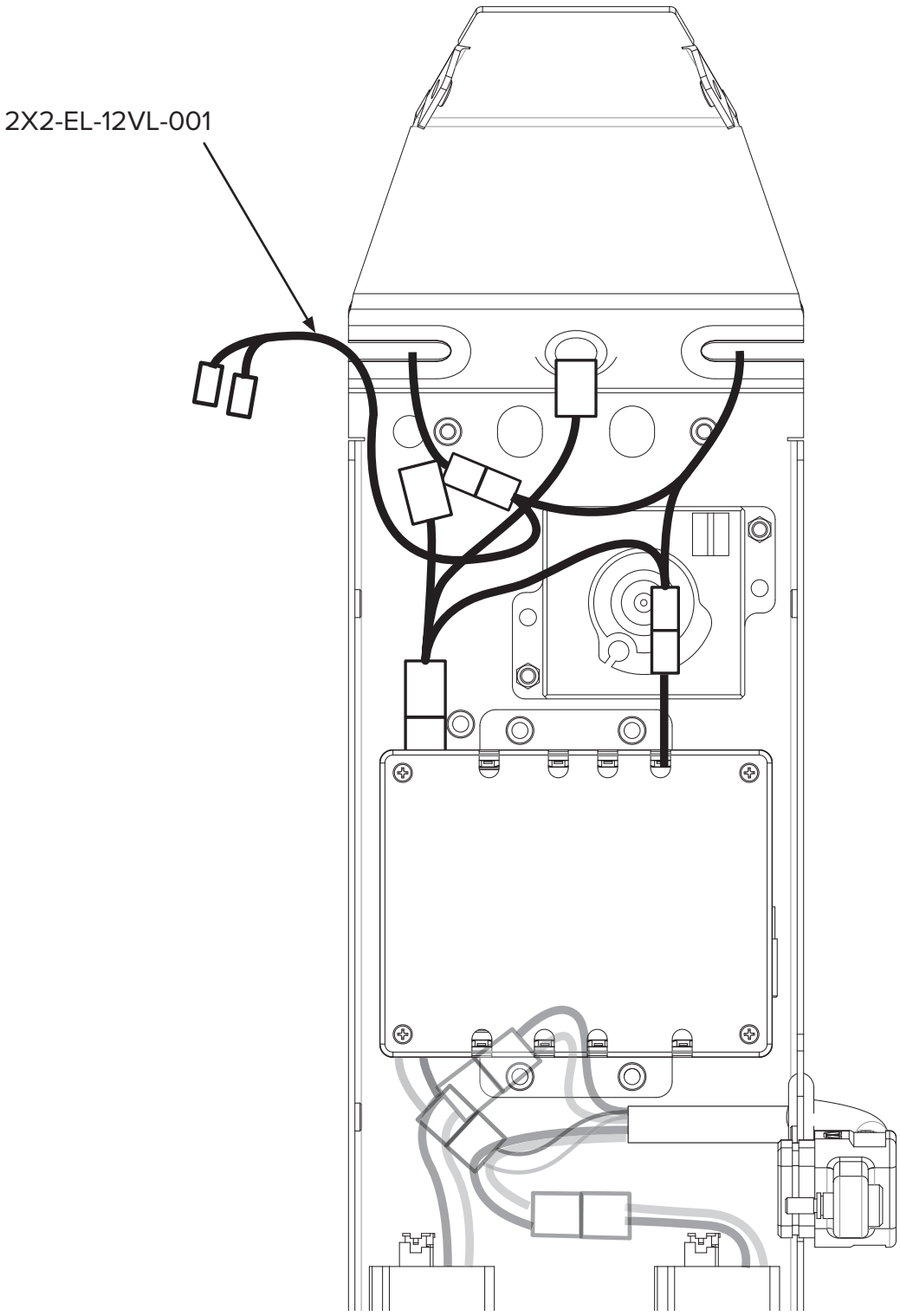
1. Display cable
2. Bar loom cable
3. Headlight cable
4. Rear light loom cable

B. Connect the 12V cables to the DC-DC converter and 12V parts.

1. DC-DC converter
2. 12V + USB loom cables
3. Ignition
4. Handlebar switch
5. Kill switch




**QC CHECKPOINT - see next page**


2X2-EL-12VL-001

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. All connectors are connected to correct plugs.

3. All connectors are placed as high up the console as possible.

## 2.19 Front carrier install - test fit

Required parts:
- Frame
- Front Carrier (2X2-FA-FC-002)
- Fork Clamp B (2X2-FCB-0-001)

| | | |
|---|---|---|
| - M6 x 25 Hex socket button head screw x2 | #1 | Torque to 5 Nm |
| - M8 x 25 Hex socket button head screw x2 | #2 | Torque to 22 Nm |
| - M6 x 12.5 x 1.2 Flat washer x4 | #3 | |
| - M6 Nyloc nuts x2 | #4 | |
| - M8 Nyloc nuts x2 | #5 | |

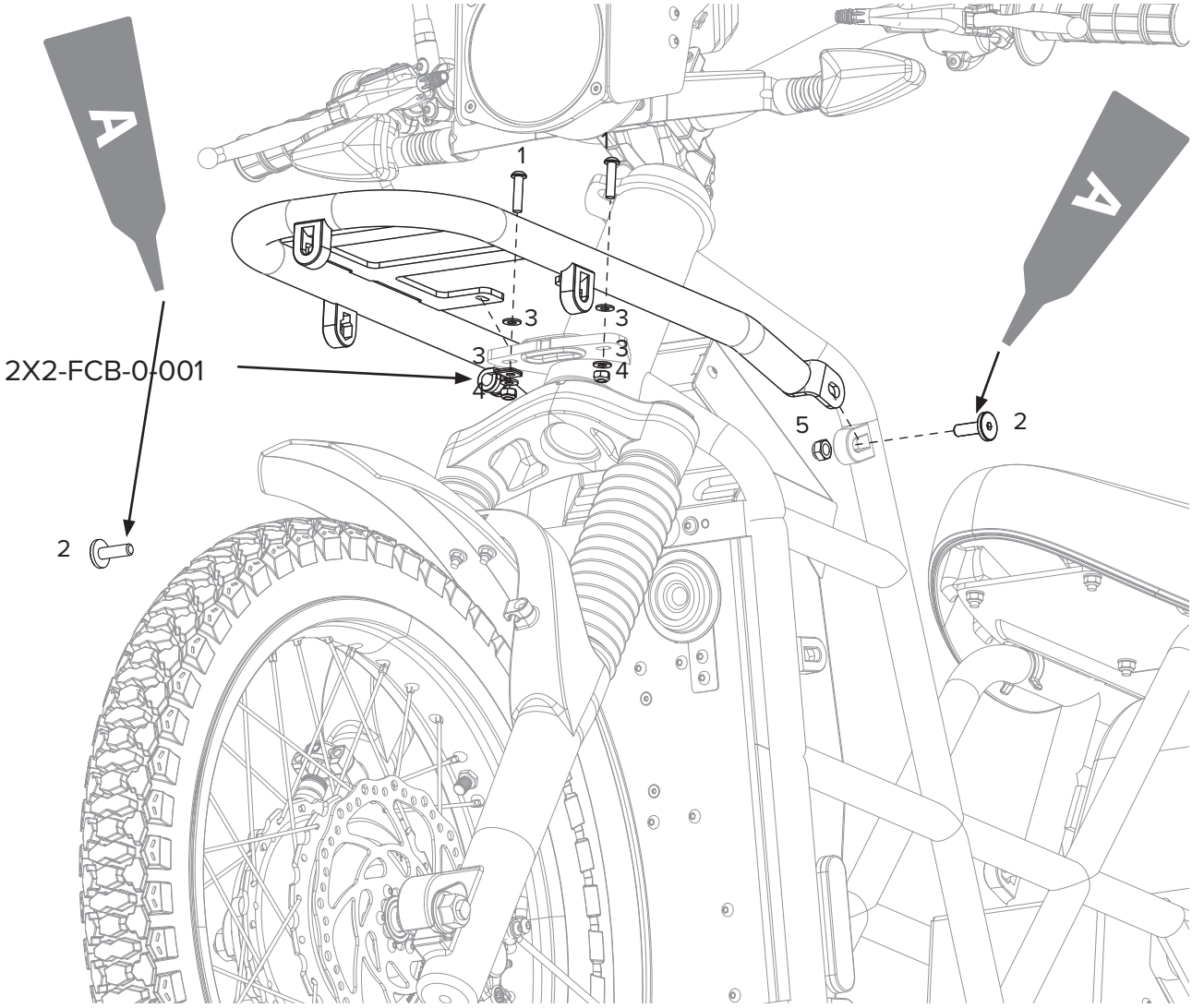
Tools required:
- 5mm Allen key
- 4mm Allen key
- 10mm spanner

A. Install the front carrier onto the front of the frame, resting the front carrier top mount holes onto the mounting plate on the head tube.

B. Line up the side mounts with the two side accessory lugs on the frame and use the 2x M8 Hex large head screws and M8 nyloc nuts to fasten the side of the carrier to the frame.

C. Insert the front motor cable into the Fork Clamp B part and ensure correct placement of the clamp allowing enough slack in the motor cable to clear the fork when steered.

D. Mount the top of the Front Carrier to frame mount using the 2x M6 x25mm screws, M6 washers and M6 nyloc nuts, securing the Fork Clamp to the right hand mount screw with the motor cable on the inside of the mount.




# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Parts fit correctly.

## 2.20 Front mud guard install

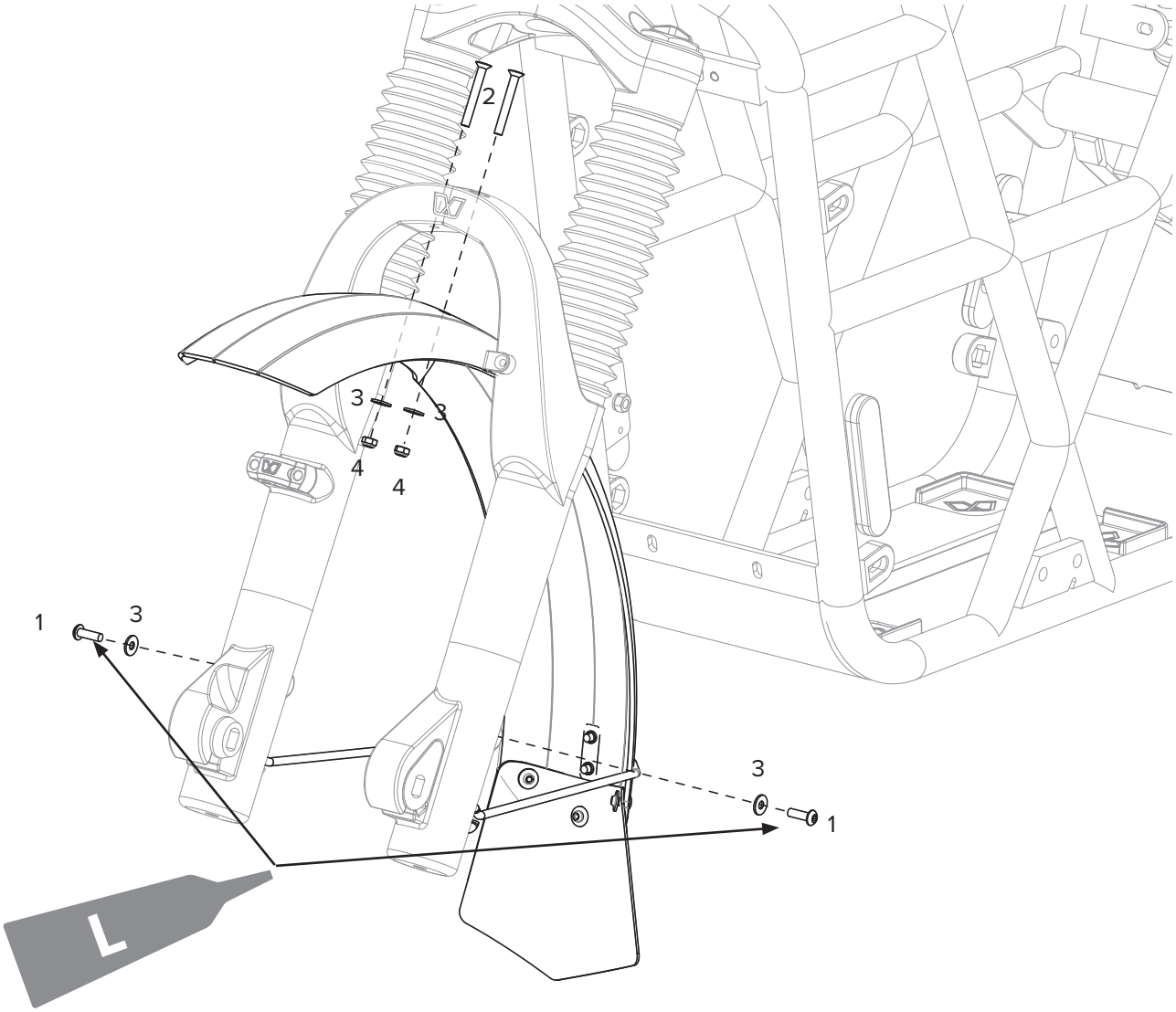
Required parts:
- Frame (with fork installed)
- Front Mudguard assembly

| | | | |
|---|---|---|---|
| - M5 x 16 Hex button head screw x2 | #1 | needs loctite | Torque to 3 Nm |
| - M5 x 40 Hex countersink screw x2 | #2 | | Torque to 3 Nm |
| - M5 x 12.5 x 1.2 Flat washer x4 | #3 | | |
| - M5 Nyloc nut x2 | #4 | | |

Tools required:
- 3mm Allen key
- 8mm Spanner

A. Install the front mudguard assembly onto the fork using the 2x M5 x 40mm screws, 2x washers and 2x nyloc nuts to attach the mudguard to the fork arch.

B. Attach the mudguard stays to the lug details on the fork lower. Use the 2x M5 x 16mm screws and 2x flat washers to secure the stays to the fork.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Fasteners are torqued correctly.

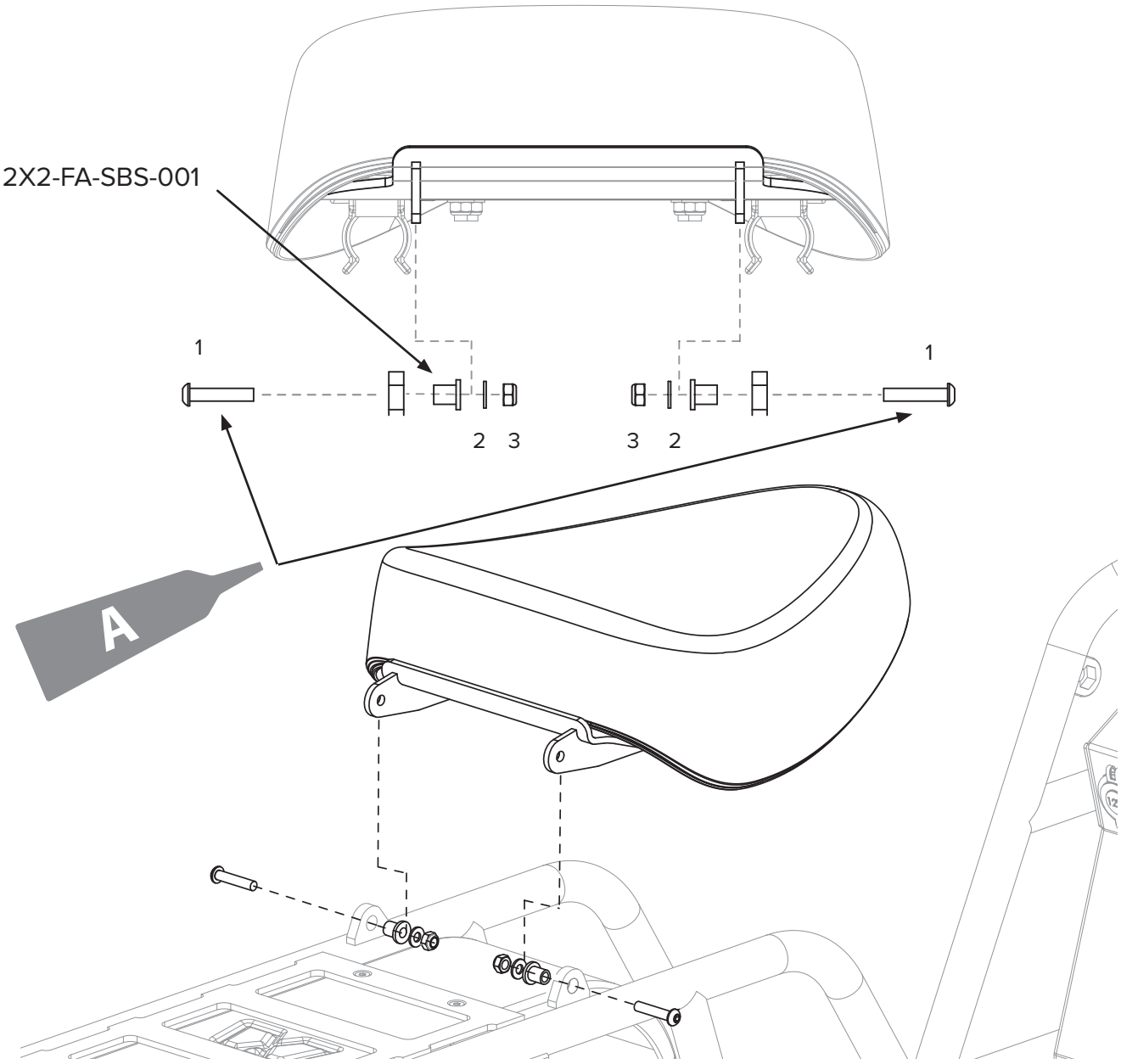
## 2.21 Seat install

Required parts:
- Frame
- Seat sub assembly
- Seat bush (2X2-FA-SBS-001)

| | | |
|---|---|---|
| - M6 x 25mm Hex button head screw x2 | #1 | Torque to 5 Nm |
| - M6 x 12.5 x 1.2mm flat washer x2 | #2 | |
| - M6 Nyloc nut | #3 | |

Tools required:
- 4mm Allen key
- 10mm Spanner

A. Install the seat assembly onto the frame and fasten with the correct fasteners in the order illustrated below




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

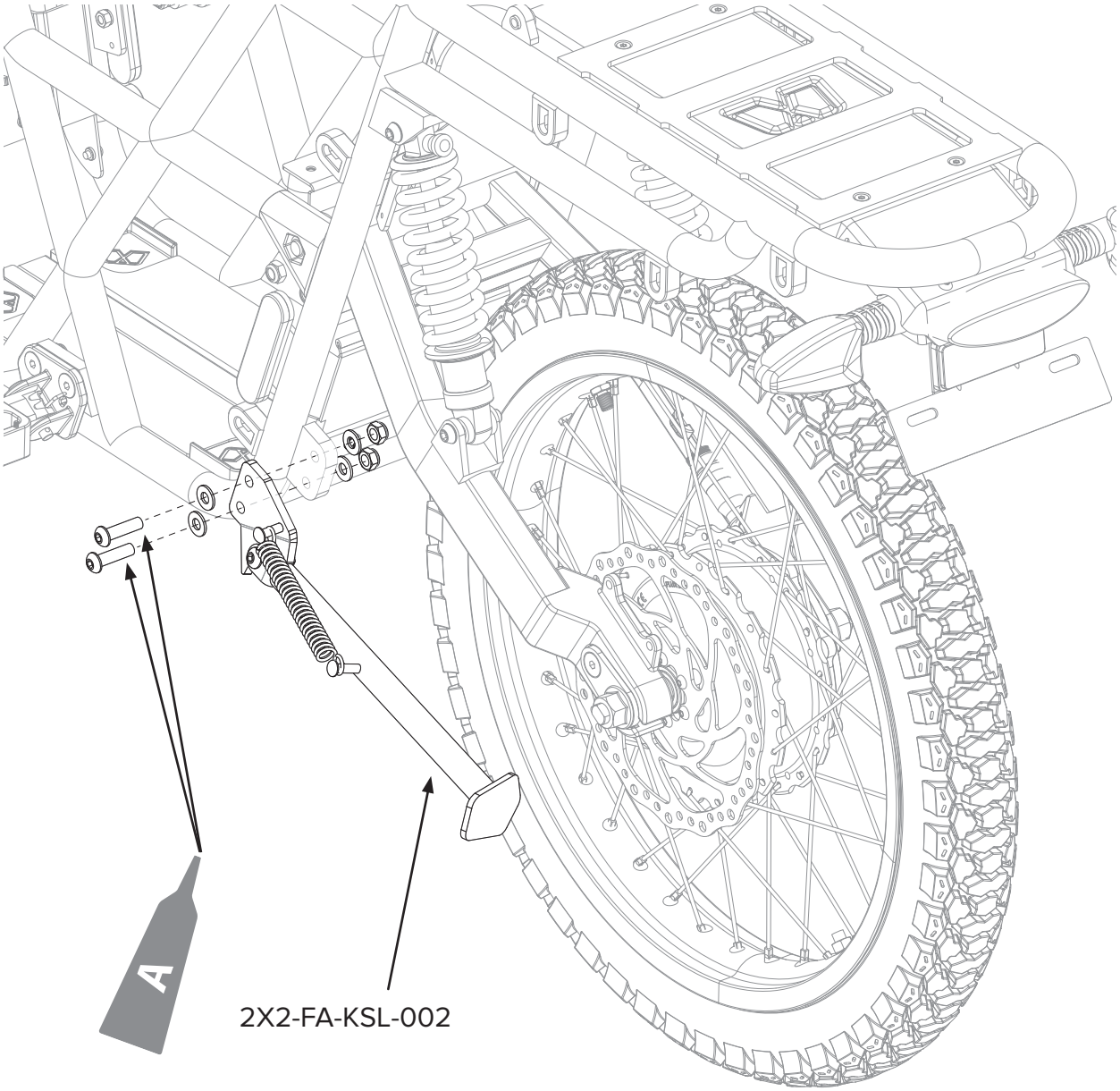
4. Parts fit correctly.

## 2.22 Kickstand install - test fit

Required parts:
- Frame
- Kickstand (2X2-FA-KSL-002)
- M8 x 30 Hex button head screws x2 Torque to 22 Nm
- M8 x 16 x 1.2 Flat washers x4
- M8 nyloc nuts x2

Tools required:
- 5mm Allen key
- 13mm Spanner

A. Install the kickstand onto the mount on the left hand side of the bike frame using the 2x M8 x 30mm Hex button head screws, 4x M8 washers and 2x M8 nyloc nuts. Install the washers under the screw heads and nuts.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Parts fit correctly.

## 2.23 Foot peg install - test fit

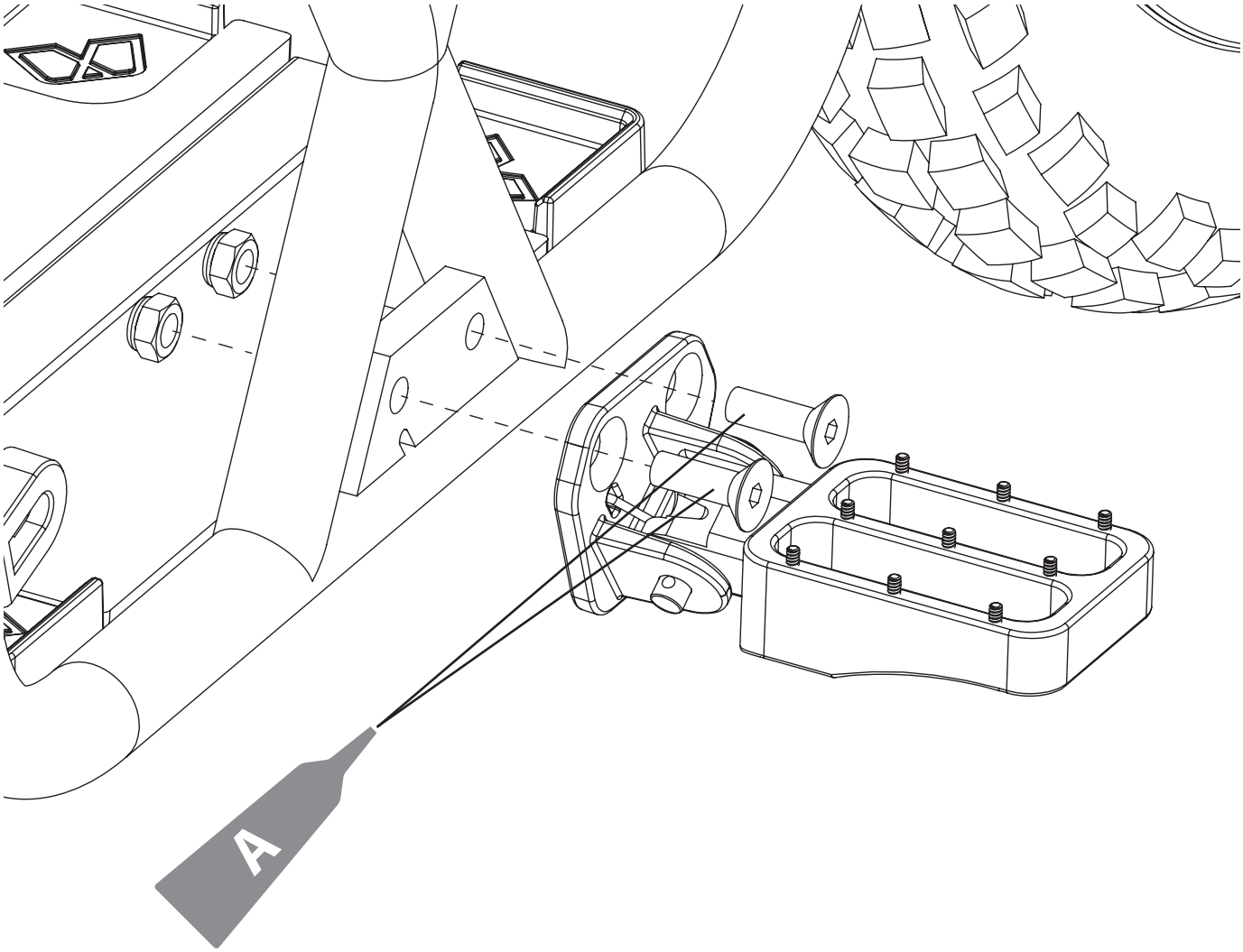
Required parts:
- Frame
- Foot peg assembly
- M8 x 25 Hex countersink screw x2 Torque to 22 Nm
- M8 nyloc nut x2

Tools required:
- 5mm Allen key
- 13mm Spanner

A. Install the foot peg assembly onto the frame using the two M8 x 25mm countersink screws and M8 nyloc nuts ensuring the foot peg spring aligns with the relief detail in the frame mounting bracket.

The foot peg should fold up towards the rear of the bike.

Repeat on opposite side.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Parts fit correctly.

## 2.24 Wheels install

### 2.24.1 Installing the front wheel

Required parts:
- Frame (with fork installed)
- Wheel assembly
- Fork Torque Arm Left (2X2-FF-FTAL-001)
- Fork Torque Arm right (2X2-FF-FTAR-001)
- Fork Axle bush (2X2-FF-FAB-001) x2
- Wheel nuts M14 x2 Torque to 80 Nm

Tools required:
- 21 mm Spanner

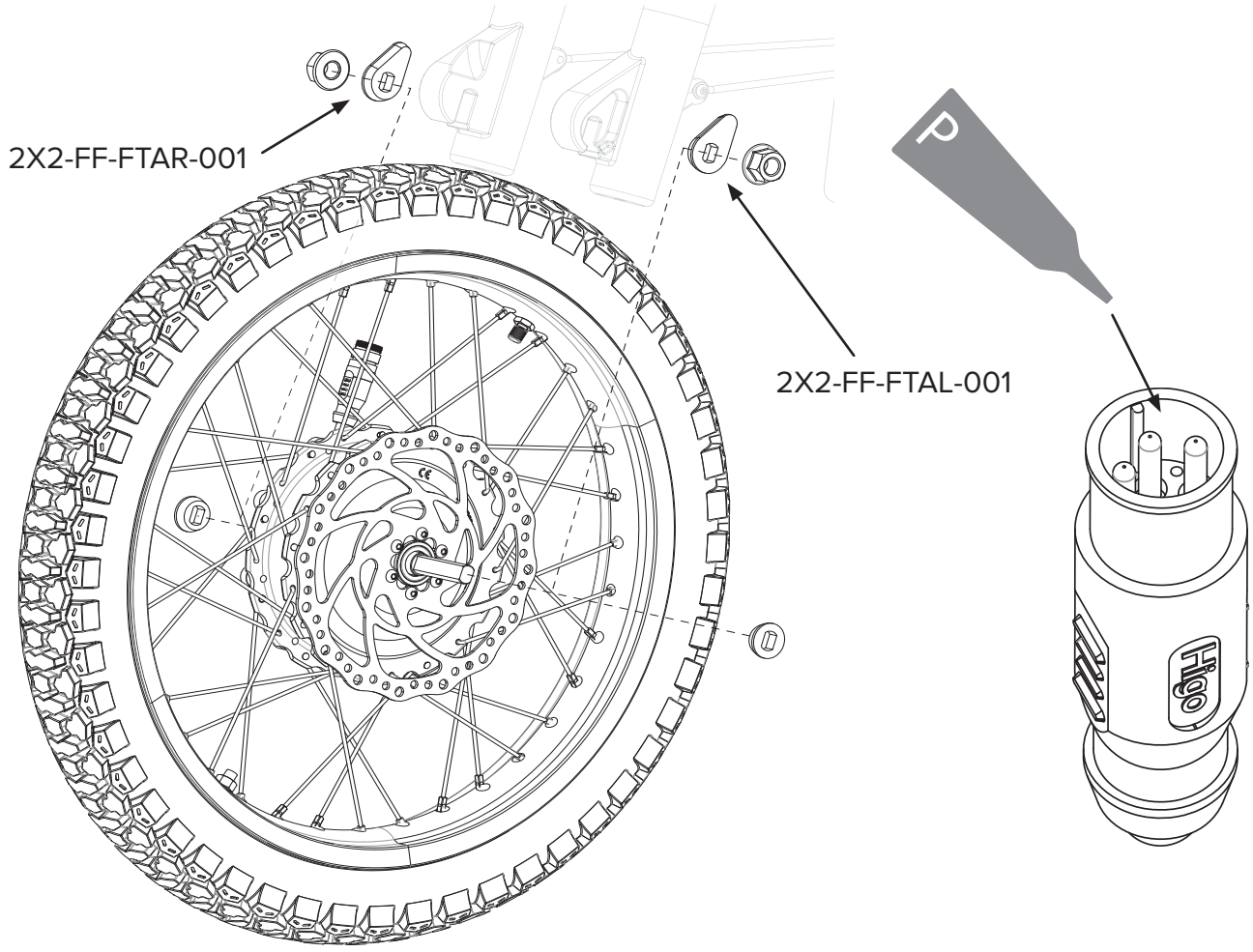
A. Install the Fork Axle Bush parts onto the wheel axles, hard up against the motor axle shoulders.

B. Ensure the wheel is rotated so the motor cable is on the right hand side of the bike and exiting upwards. Insert the wheel into the fork ensuring the flat faces of the axles are lined up with the slots in the fork lower

C. Once the wheel is in place, attach the Torque arms onto the axles so that they line up with the recess detail on the fork.

D. Install the motor nuts and tighten to 80 Nm

E. Pack the Male end of the motor cable with Petroleum Jelly and connect the two ends of the motor cable. Screw the metal sleeves together to secure.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Petroleum jelly applied to seal plug.

5. Fasteners are torqued correctly.

### 2.24.2Installing the rear wheel

Required parts:
- Frame (with swing arm installed)
- Wheel assembly
- Rear dropout spacer washer (2X2-RWS-0-001) x2
- Torque arm (2X2-FA-SATA-002) x2

| | | |
|---|---|---|
| - M14 Wheel nut x2 | #1 | Torque to 80 Nm |
| - M8 x 25 Hex countersink screw x2 | #2 | Torque to 22 Nm |
| - M8 nyloc nut x2 | #3 | |

Tools required:
- 21 mm Spanner

A. Install the Rear Dropout Spacers onto the wheel axles, hard up against the motor axle shoulders.

B. Ensure the wheel is rotated so the motor cable is on the right hand side of the bike and pointing in line with the swing arm and towards the bike.

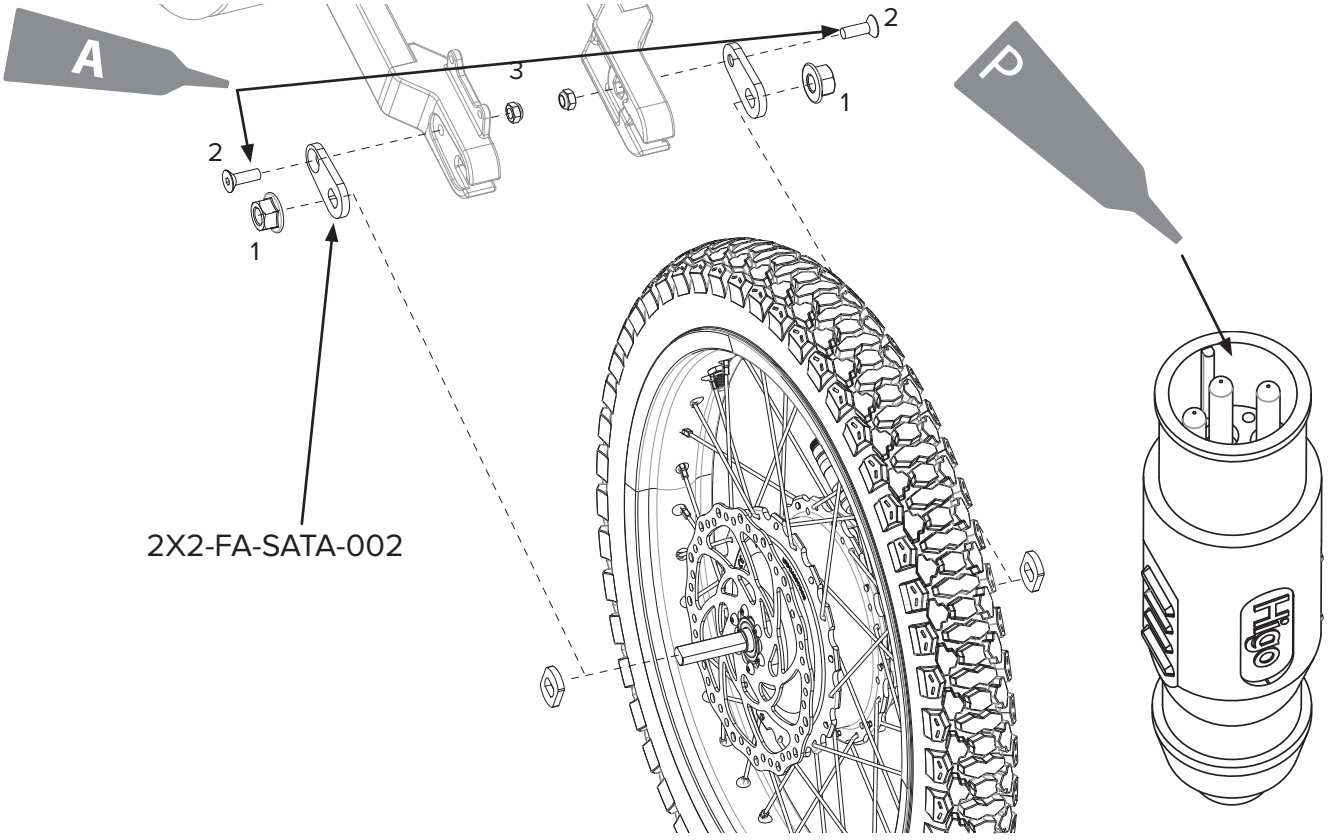
C. Install the wheel into the swing arm ensuring the flat details on the motor axles are lined up with the slots on the swing arm dropout.

D. Install the torque arms (with the countersink detail facing outwards) onto the wheel axles.

E. Install the wheel nuts onto the axles and tighten to 80 Nm

F. Install the 2x M8 nyloc nuts into the cavities on the inside faces of the swing arm drop-outs and fasten the torque arms with the 2x M8 hex countersink screws.

G. Pack the Male end of the motor cable with Petroleum Jelly and connect the two ends of the motor cable. Screw the metal sleeves together to secure.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Parts move freely where applicable.

4. Petroleum jelly applied to seal plug.

5. Fasteners are torqued correctly.

## 2.25 Programming bike software

Tools required:
- Iphone (IOS 9 or later) or Andorid phone (Android v 5.0 or later)

**This step to be completed by UBCO representative or dealer until further notice.**

## QC CHECKPOINT

1. Ensure current software version and updated software version match

## 2.26 Front Console Cover Install

Required parts:
- Frame
- Front console cover ( 2X2-FC-C-002)
- Cable tie mount (2X2-CTM-0-001)
- M5 x 10 Torx button head screws x 8 Needs loctite Torque to 3 Nm
- 2x 3.6 x 100mm black Nylon cable ties

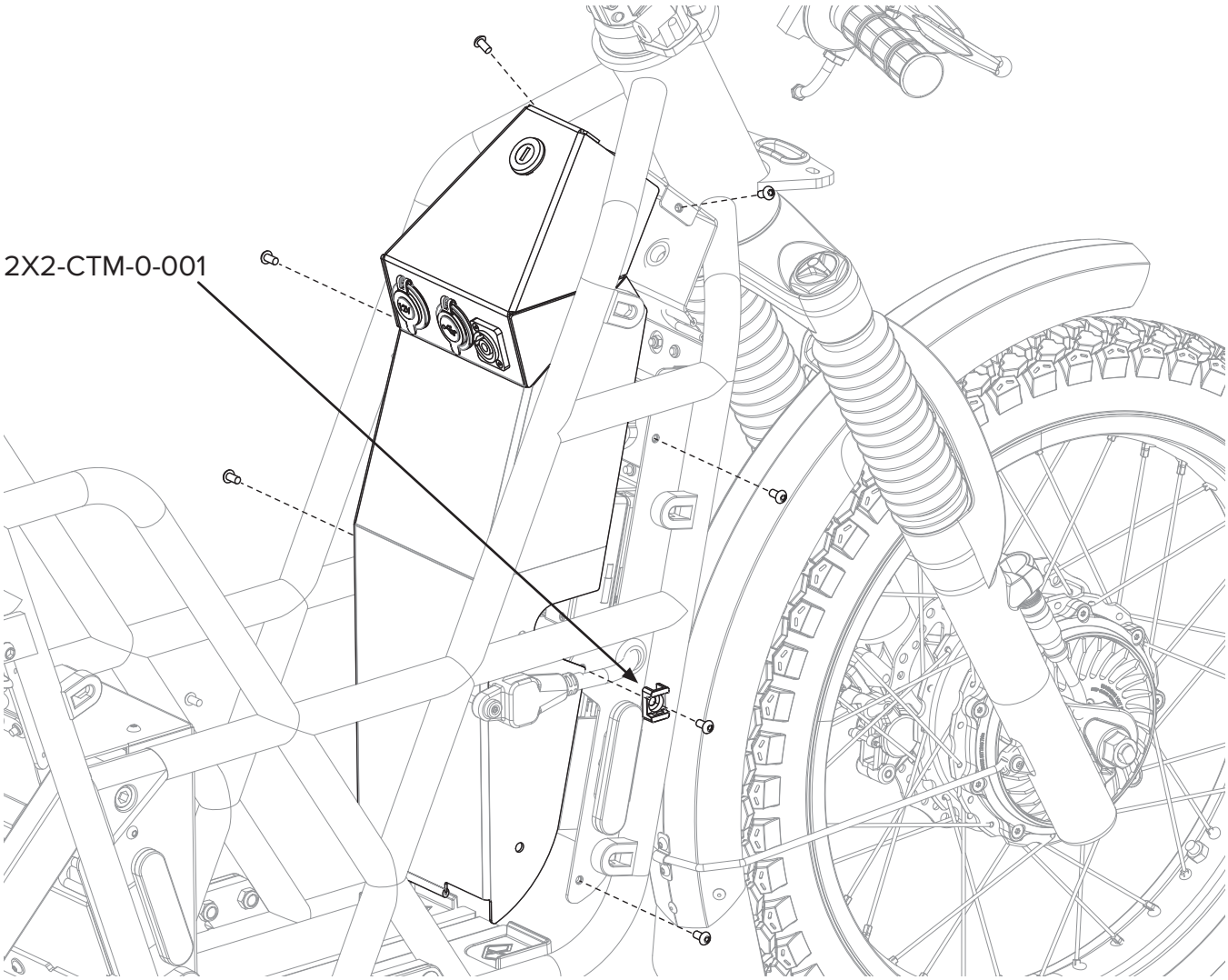
Tools required:
- T25 Torx driver
- Flush side cutters

A. Once all cables have been routed and wiring is connected, install the Front Console Cover using the 8x M5 x 10mm Torx screws to fasten to the Front Console Base.

B. Install the Cable Tie Mount to the mounting hole on the right hand side of the bike, behind the battery cable.

C. Secure the battery cable to the cable tie mount using the 2x cable ties, and trim the excess cable tie with the side cutters

Loctite should be applied to all screws that do not use a nyloc nut or spring washer to fasten.



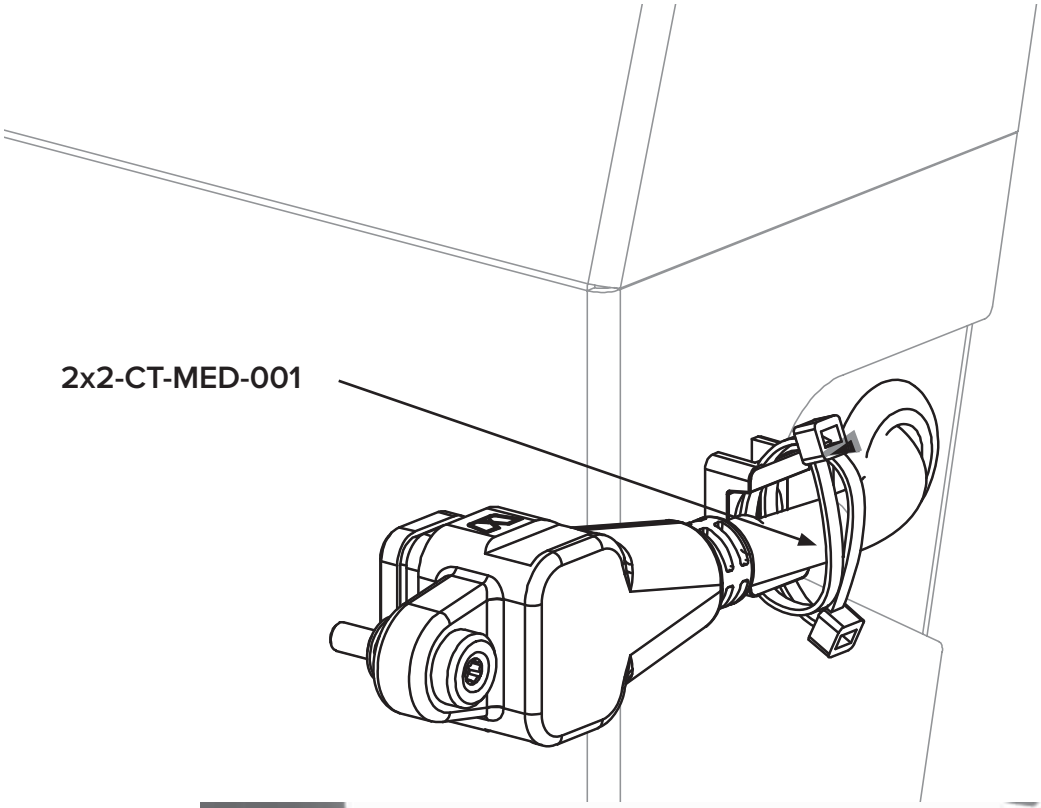

**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
    - Free from marks, chips, paint drips, scratches etc.

3. Fasteners torqued correctly.





## QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Cable secured correctly.

## 2.27 Battery install

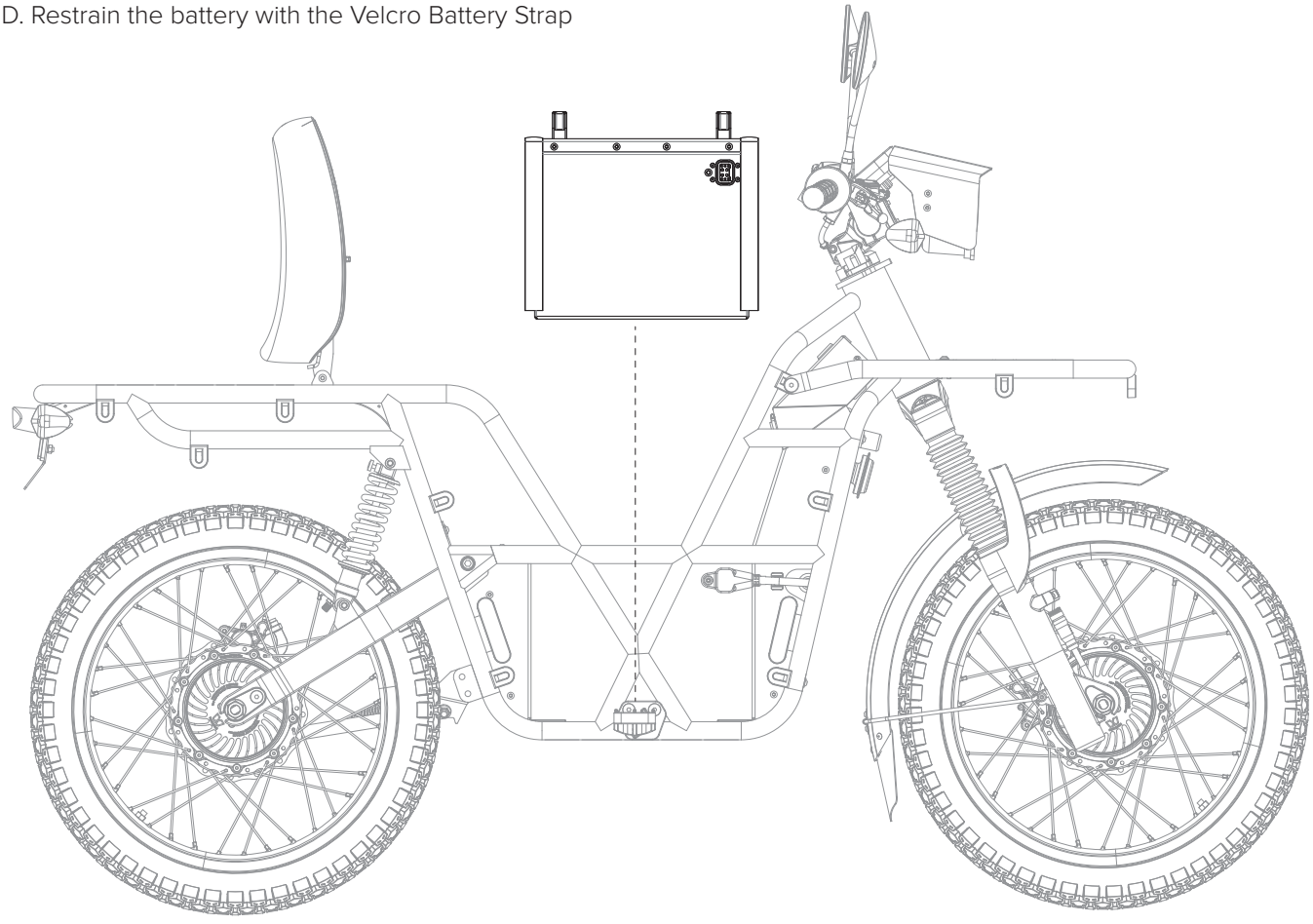
Required parts:
- Bike (2018 2x2)
- Battery (BTR-0-002)
- Battery strap (BTR-BST-0-001)

A. Lift the seat up to allow the battery to be placed into the bike

B. Carefully lower the battery into the bike ensuring the battery plug and battery socket are on the same side.

C. Plug in the battery plug and secure into the battery with the Torx fastening screw.

D. Restrain the battery with the Velcro Battery Strap

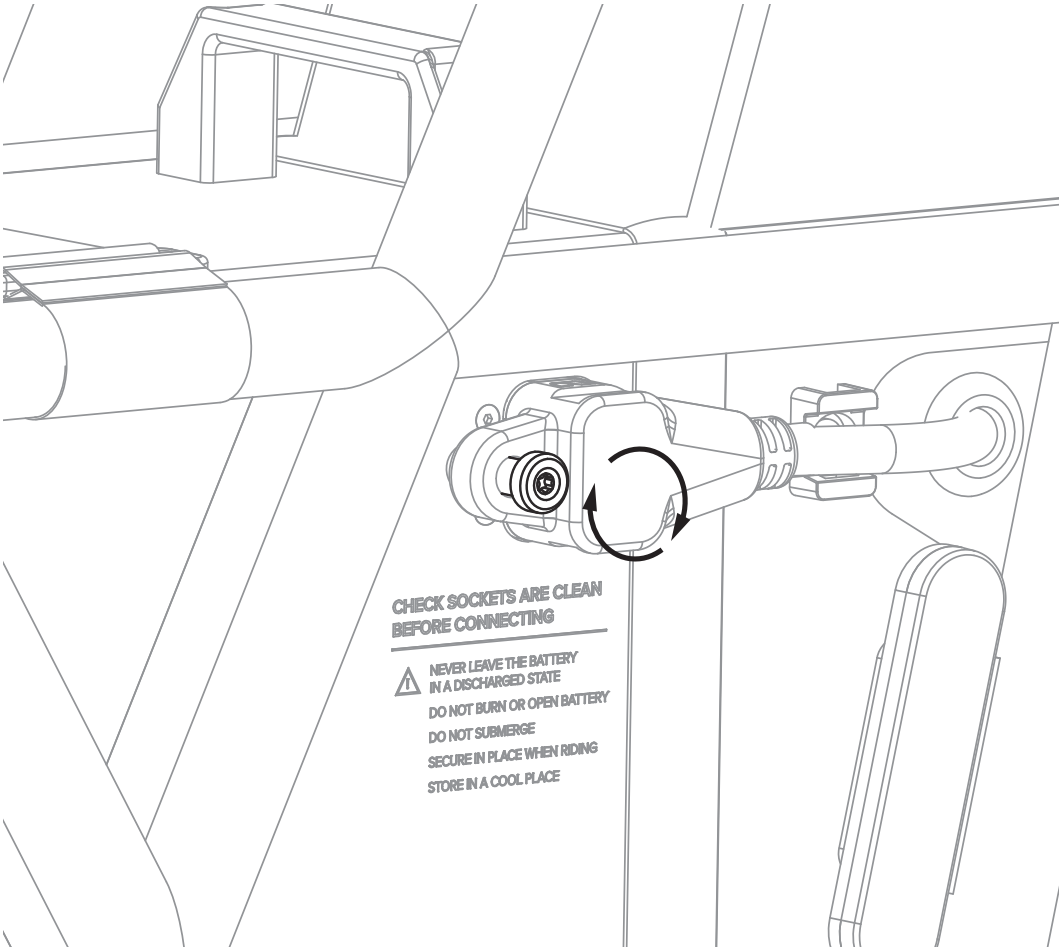


## 2.27.1 Battery fastening - test fit

Tools required:
- T25 Torx driver

A. Test fit the battery fastening screw into the battery to ensure fit.

**B. Remove the retaining screw and remove the battery plug before packing and shipping bike.**




# QC CHECKPOINT

1. Ensure sub assembly is assembled in conjunction with included instructions

2. Finishing
   - Free from marks, chips, paint drips, scratches etc.

3. Fastener secures battery plug correctly.

4. Plug removed before shipping.

## 2.28 NZ/AUS Compliance Label install

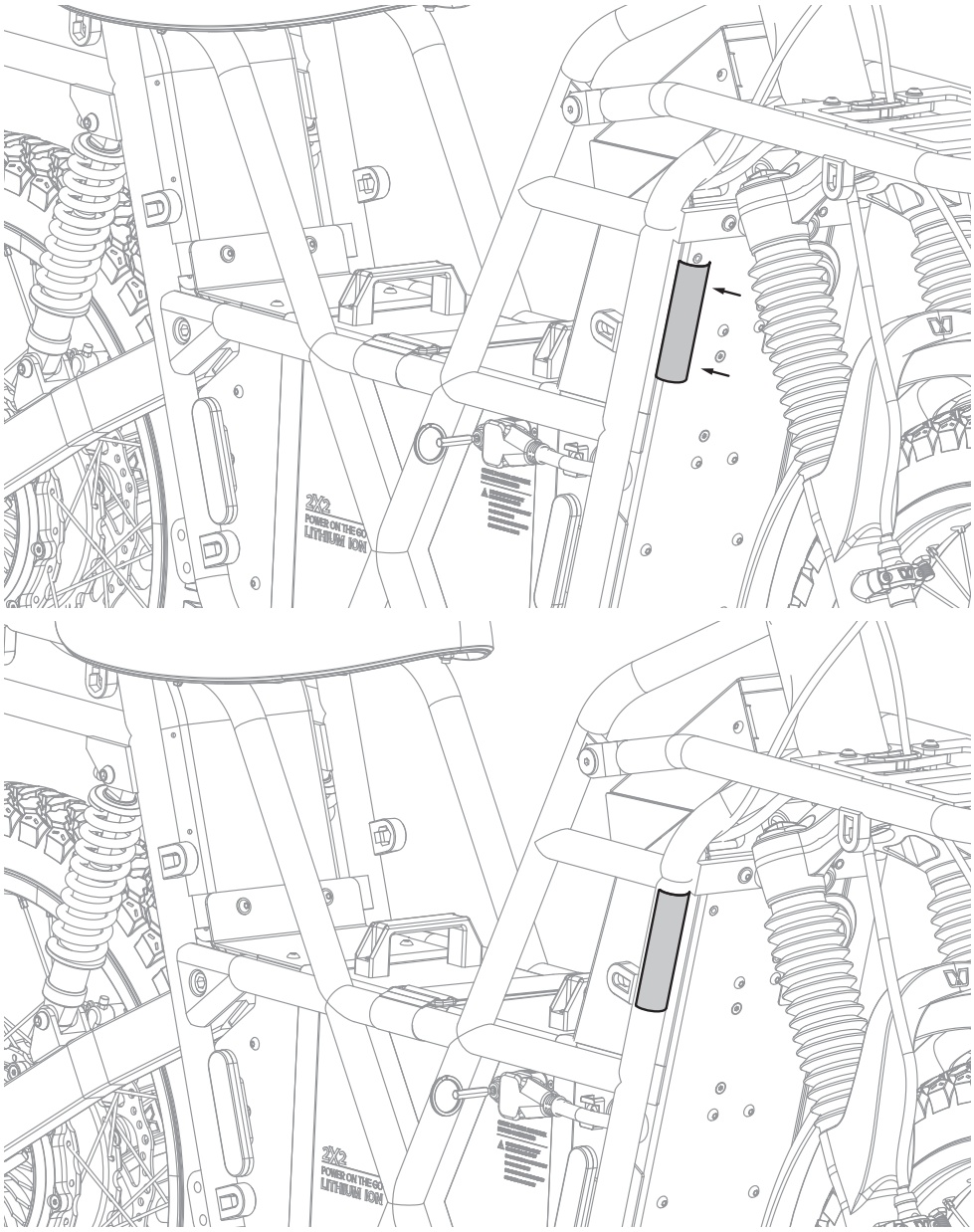
### Australian and New Zealand bikes only

Required parts:
- Bike (2018 2x2)
- Compliance plate sticker (matched to stamped VIN number)

Apply the compliance plate matching the stamped VIN code on the frame head tube.
Carefully apply the label to front right upwards frame tube as pictured below. Place the label just below the top cross member and wrap the label around the frame tube.

Position the label so that the text reads from top to bottom

**IMPORTANT: The adhesive labels have a security feature which does not allow them to be removed without destroying them. Do not attempt to re-position the label once it is attached to the frame.**




## QC CHECKPOINT - see next page

# QC CHECKPOINT

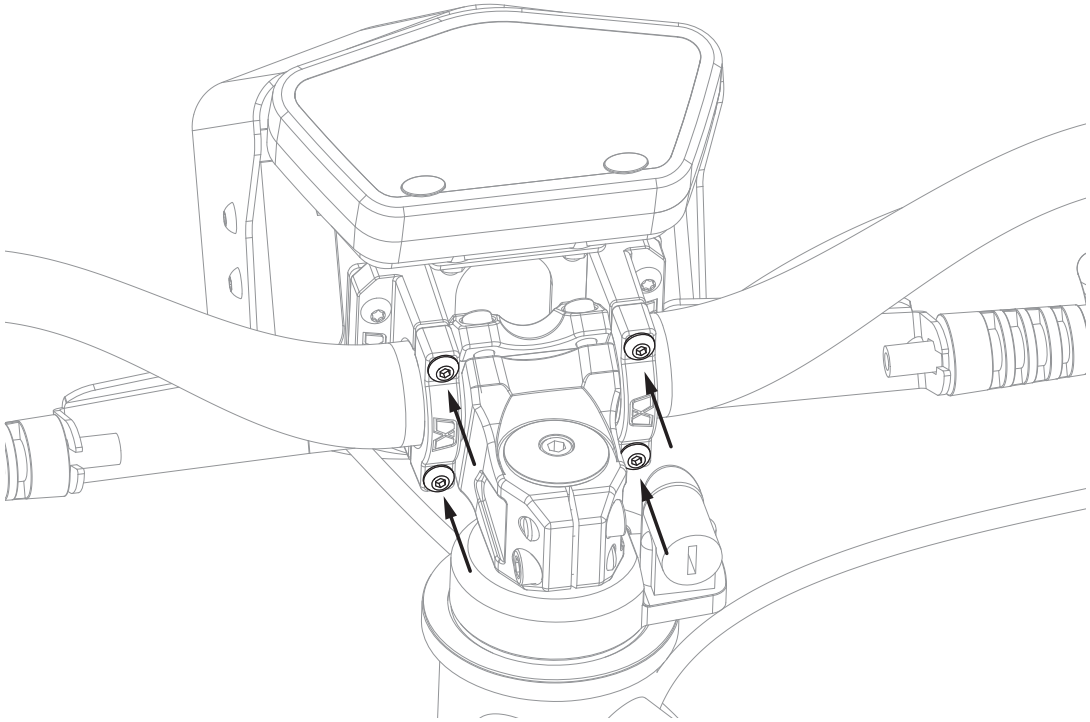
1. Label positioned as instructed.

2. Label in new condition.

## 2.29 Headlight aiming

A Loosen the 2x top screws that attach the headlight clamps to the handlebars.

B. Tilt the headlight assembly to aim and re-tighten the 2x screws.



1. Line the bike up perpendicular to a clean wall or flat vertical surface with the front of the headlight 3m from the wall

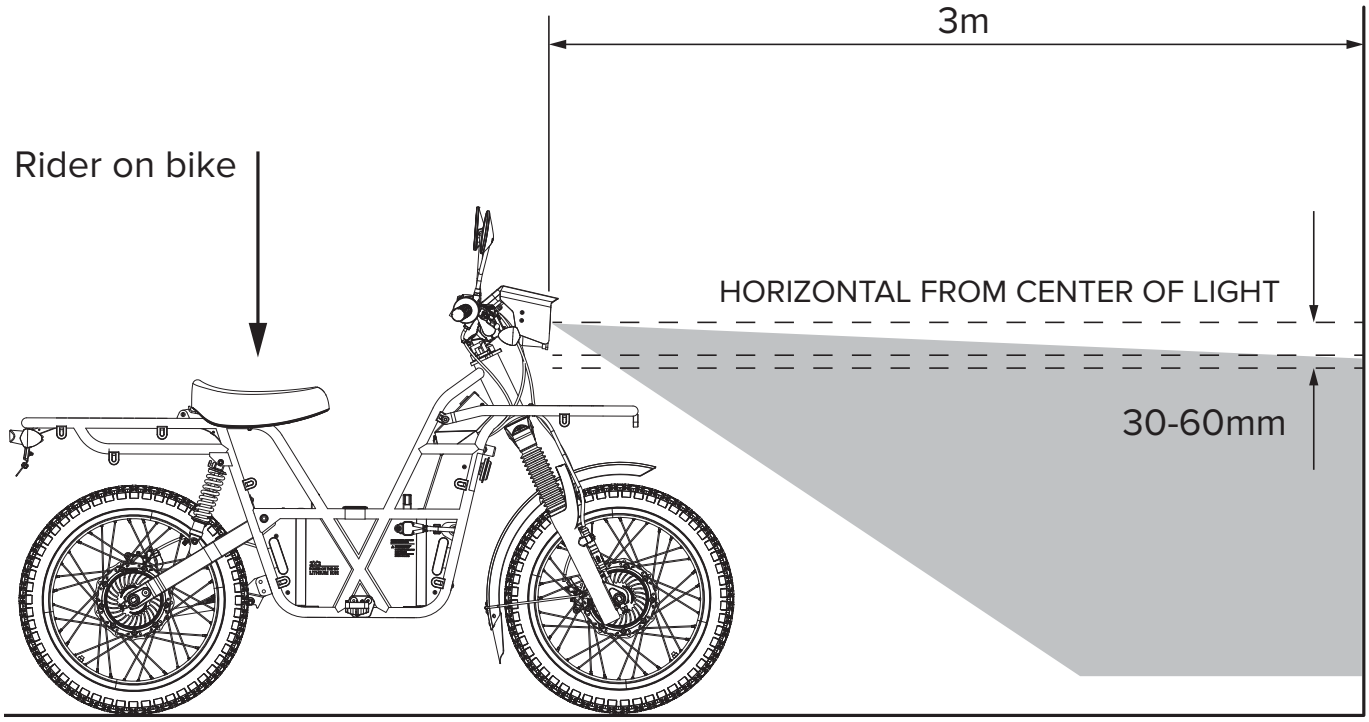
2. A rider should be sitting on bike as to correctly replicate the height of the headlight when in use

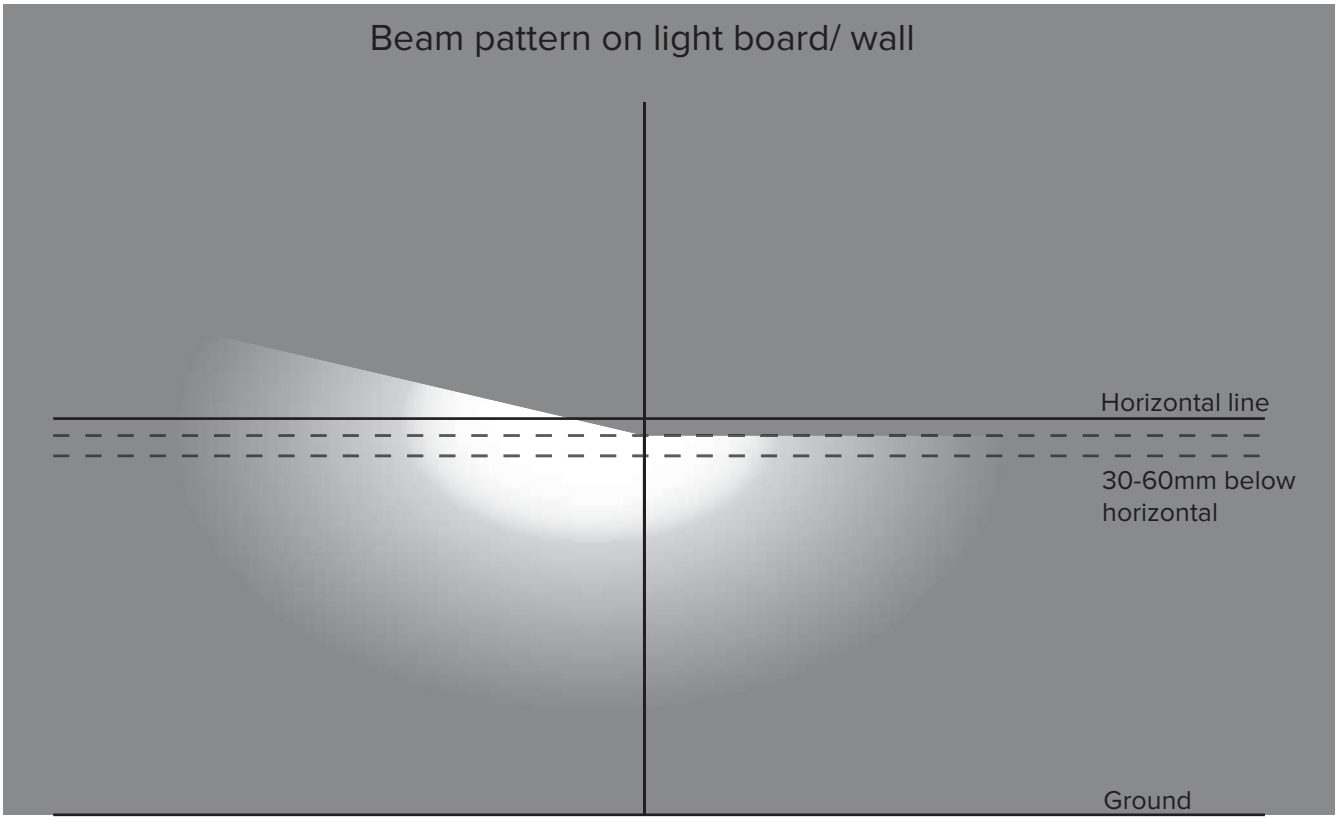
3. Measure the vertical height from the ground to the center of the headlight, mark this height on the wall and make a horizontal line at this mark.

4. Mark two horizontal lines below the midpoint mark at a distance of 30mm and 60mm respectively.

5. Aim the headlight (low beam) horizontal cut-off line in between the 30mm and 60mm line.

6. Re tighten the two screws securing the headlight clamp on the handlebars, tighten so that the headlight assembly does not rotate on the bars.




**QC CHECKPOINT - see next page**

# QC CHECKPOINT

1. Headlight aimed as per instructions

2. Fasteners are torqued correctly.

## 2.30 Parts box assembly

Parts box packing list:

1. Foot peg assembly left
2. Foot peg assembly right
3. Kickstand
4. Mirror left
5. Mirror right
6. Torx tool
7. Plastic battery clip
8. User manual (in welcome pack box)
9. Keys (placed in welcome pack box just prior to bike being packaged to ensure correct key with correct bike).

# QC CHECKPOINT

1. All parts present.

2. Correct key for correct bike included.

3. Parts packed sufficiently to avoid damage.