

# NUMBER 4

## Installation instructions: Full cowl kit for XSR900(2022~)

Thank you for purchasing our full fairing kit. Please make sure to fully understand the contents of this manual before use. We are not responsible for any damages or losses incurred due to the improper use contrary to the instructions, cautions, and warnings in the manual.

### CAUTION

We recommend installation by a qualified individual or at a certified workshop. The installation manual is intended for those with skills and knowledge in the field. Do not attempt installation on models other than those specified. After installation, please retighten the bolts and nuts to the specified torque after driving approximately 100 kilometers. Additionally, before riding, please inspect for any loosening or detachment each time. The full fairing kit is made of FRP (Fiberglass Reinforced Plastic). Due to the manufacturing process of solidifying glass fiber cloth with resin, there may be steps, seams, unevenness, or repair marks on the back surface. The transparent screen is made of acrylic. Use a neutral detergent for cleaning and gently wipe with a cloth, avoiding vigorous scrubbing with a brush or similar. Drive safely at the legal speed limit.

### WARNING

**Fire Hazard:** Do not place flammable materials such as gasoline near the work area. If there are gasoline or oil leaks, perform cleaning and inspection before proceeding with the work.

**Risk of Burns:** During engine operation and immediately after stopping, the engine and exhaust become hot. Always perform work when the engine is cold.

**Risk of Injury:** When working, ensure that the vehicle is parked correctly on a level surface. Additionally, wear long-sleeved work clothes, gloves, safety shoes, and protective goggles while working.

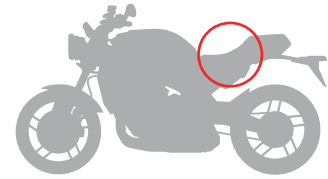
**Carbon Monoxide Poisoning Hazard:** When starting the engine, always do so in a well-ventilated outdoor area.

**Risk of Detachment:** FRP and acrylic products may crack due to aging. Iron parts may break due to corrosion. After installation, inspect before riding each time. Strictly adhere to the tightening torque specified in the service manual for each bolt and nut.

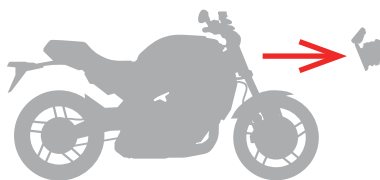


**Important**

Disconnect the negative terminal of the battery. There is a risk of electric shock, vehicle fire, blown fuses, and bulb failure if a short circuit occurs during work.



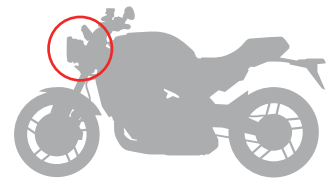
**Headlight relocation and cowl installation preparation**



**A-1 Removal of the Headlight**



Remove the fixing bolts on both sides of the headlight.

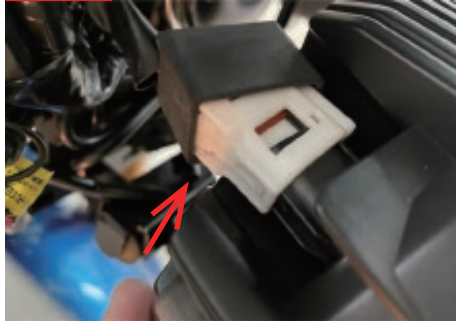


**A-2**



Lift the headlight upwards by about 3cm and pull it out from the bottom mount. Be careful not to pull the wiring harness more than 10cm as it is attached to the back.

**A-3**



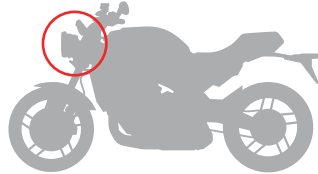
Disconnect the headlight connector. The tab is located at the bottom.

Set aside the removed headlight for now.

### B-1 Removal of the Headlight Bracket



Remove the wiring cover. It is secured with two bolts at the top and bottom tabs. Store it carefully as it will not be used.



*The wiring inside the cover is arranged and fixed like this.*

### B-2



Release the connector fixation inside the cover. Use pliers or similar tools to unlock the tab at the back and remove it. Disconnect the wiring from the horn.

*\*It's helpful to label the removed connectors with numbers for smooth restoration later.  
\*There may be leftover connectors for optional accessories among the wiring.*

### B-3



Remove the meter. Remove the screws from the meter body, then pull out the meter connector (which has tabs), and finally remove the meter.

*\*Be extremely careful not to touch the terminals of the meter. There is a risk of damaging the electronic circuit due to static electricity.*



### B-4



Remove the headlight bracket, which is secured to the top bridge and under bracket with four bolts. Pull it out while avoiding the wiring.

Remove the wiring box (plastic tray). It is secured with four screws. Store this wiring box carefully as it will not be used.



### B-5



Remove the horn and bracket. The horn, bracket, and bolts will be used later.



Reuse

Reuse



Not in use



### C-1 Rerouting of Brake Hoses and Wires



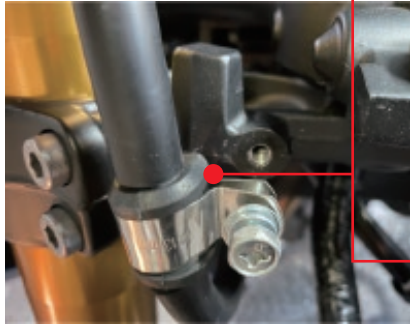
Right side of the top-bridge

Remove the fixing bracket of the right front brake hose, free the hose, and secure the brake hose using two hose clamps (13mm) from the kit. Utilize the available screw holes on the top bridge and under bracket for fixation.

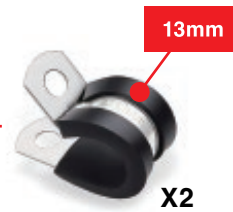


Left side of the top-bridge

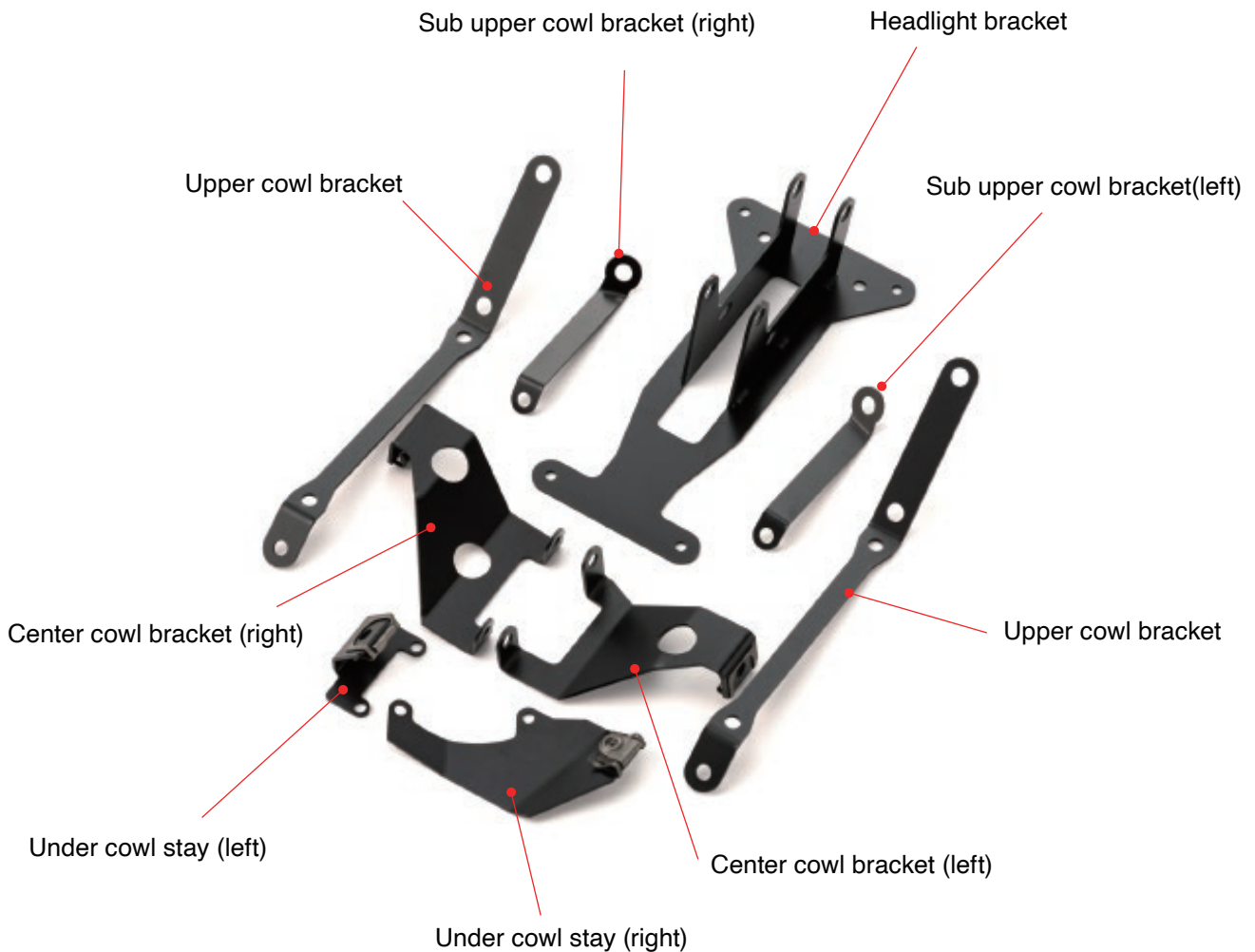
Use the kit-provided cable clamp (19mm) to secure the thick wire on the left side to the top bridge. Shift the clutch wire inwards and secure it with a cable tie.



Right side of the bottom bracket



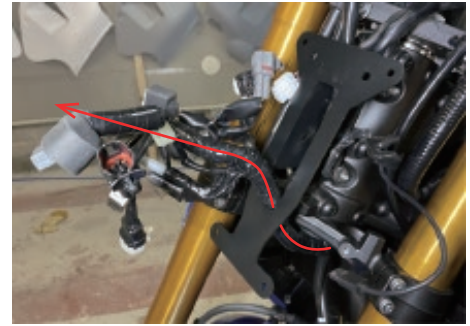
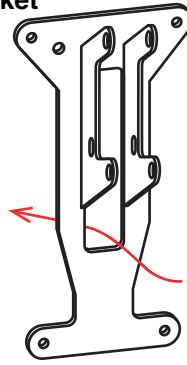
### Cowl bracket



### D-1 Installation of the Headlight Stay Bracket

Pass the wiring connected to the headlight through the square hole in the bracket towards the front. Pass the wires one by one, starting with the longest ones from the largest connector.

While threading the wires, temporarily attach the headlight stay bracket, which comes with the full fairing kit, to the motorcycle frame using two bolts and nuts.

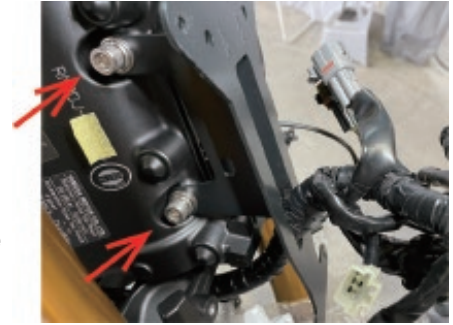


### D-2



The thick bundle of wires should be arranged as shown in the photo.

When turning the handlebars, make sure that the wires are not pinched, and then fully tighten the two bolts.



*The photo shows the completed state taken from below.*

### D-3 Installation of the Stock Headlight Stay



Attach the stock headlight stay, which was previously removed, to the kit's headlight mount stay bracket using four bolts and nuts.

At this time, insert the stock horn stay between them. Since it also serves as a spacer, make sure to insert it.

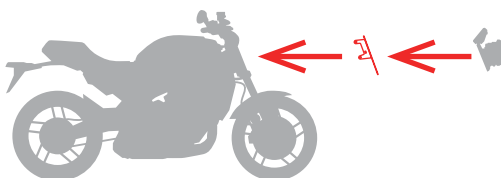
Since it uses a rubber mount (the same mounting method as the stock one), it is normal for there to be a little play to absorb shocks.



*The stock horn stay should be inserted upside down, rotated 180 degrees.*

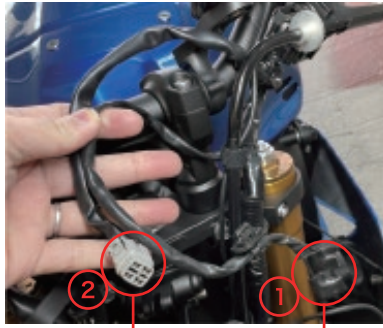
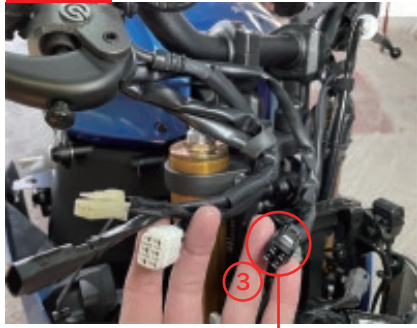


*For the two lower positions, use the bolts and nuts included in the kit.*





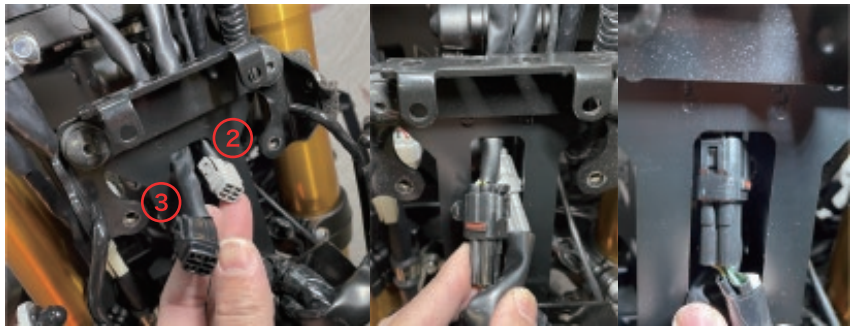
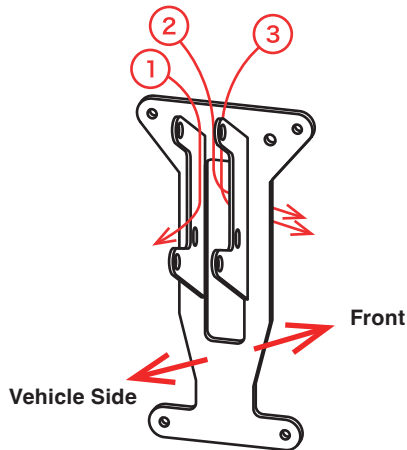
## E-1 Routing the Wiring from the Handlebars



Route the three wires from the right handlebar switch and the two wires from the left handlebar switch along the longest possible path to the center, ensuring that no undue force is applied when turning the handlebars left and right.

The black coupler on the right side and the wires from the left side should pass between the headlight stay bracket and the head pipe.

The horn wire [1] should be routed out from the right side of the headlight stay bracket.



The gray [2] and black [3] couplers routed through the center should be connected to their respective matching couplers and placed into the holes in the headlight stay bracket.

The two connected parts should be placed inside the bracket. Ensure there is enough slack on the handlebar side by fully pushing them in.

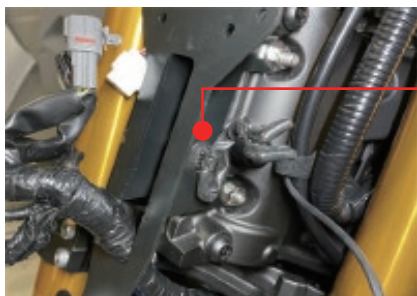
## E-2 Attaching the Couplers to the Headlight Stay Bracket



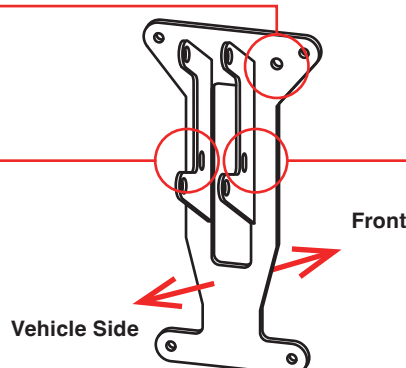
Right side: White coupler

Attach the couplers that connect to the wiring from the handlebars—specifically, the horn wiring from the left handlebar switch and the branched wiring from the thick wiring bundle coming from the vehicle—to the headlight stay bracket, referring to the photo.

Note: The photo was taken without the headlight stay for clarity.



Left side: Horn wiring

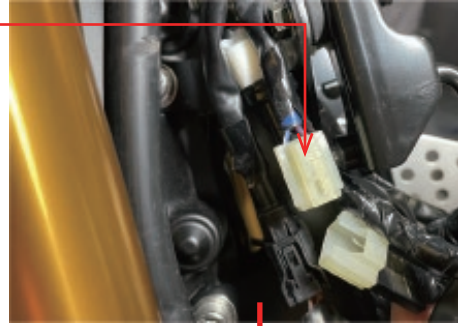
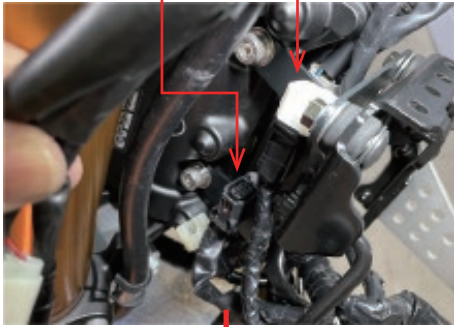


Right side: Black coupler

### E-3 Connecting the Couplers



Connect the remaining wiring from the right side of the handlebar.



### Important

Make sure the cables are not pinched between the headlight stay bracket mounting points and avoid placing them near the front forks.

### E-4 Attaching the Horn



Attach the horn along with its stay to the right lower hole of the stock light stay using the remaining screw hole. Tighten it securely to prevent it from loosening.



*Horn Mounting Position*

Connect the wiring to the horn.



## E-5 Meter Installation

Install in reverse order of **B-3** .

Ensure the waterproof rubber is securely in place.  
Be careful not to touch the terminals of the meter. Static electricity may damage the electronic circuit.



## E-6 Headlight Installation

Install in reverse order of **A-1** ~ **A-3** .

### Important

\*At this stage, connect the negative terminal of the battery, start the engine, and check if the lights, horn, meter, etc. are functioning properly.

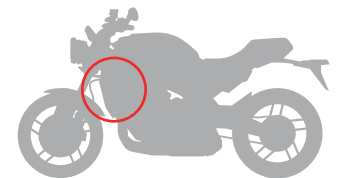
\*It is recommended to adjust the headlight's optical axis before attaching the cowl.

\*After completing the operational check, disconnect the negative terminal of the battery again before proceeding to the next step of removing the turn signals.

## F-1 Removing the Turn Signals (Both Sides)



Remove the mounting bolts of the radiator cover and pull the cover upwards to remove it.  
Disconnect the turn signal coupler and pull it outwards.

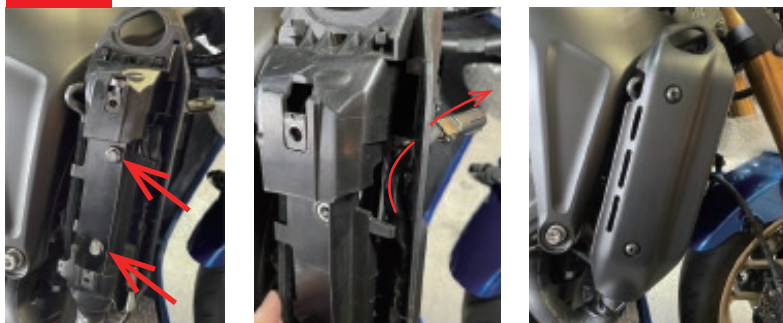


## F-2



Remove the mounting bolts of the radiator cover and pull the cover upwards to remove it.  
Disconnect the turn signal coupler and pull it outwards.

## F-3

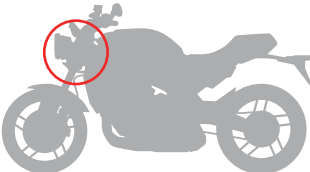


Remove the two bolts of the plastic parts fixed to the radiator and lift it slightly. Pull the turn signal coupler wiring out from the gap.  
Once the coupler is pulled out, reattach the plastic parts and the radiator cover.

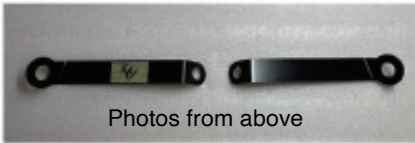
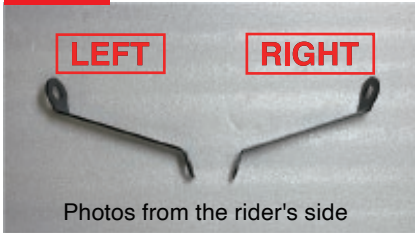
Perform the same steps for both sides.



# Cowl Bracket Installation

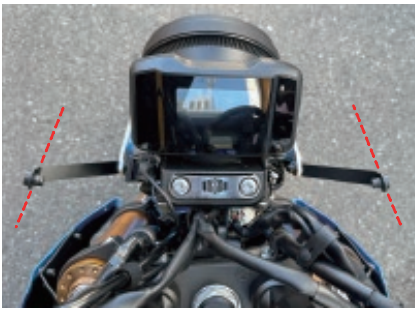


## G-1 Sub Upper Cowl Stay Installation

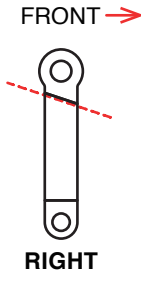
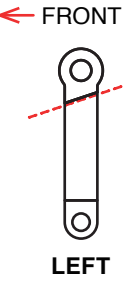


The stays are different for the left and right sides, so please be careful.

Use the stock bolts on the upper side of the headlight stay to fasten them together. At this point, loosely fasten them so that there is some movement.



*When attached to the vehicle, the front ends will narrow.*



Insert the well nuts into the holes at the ends.

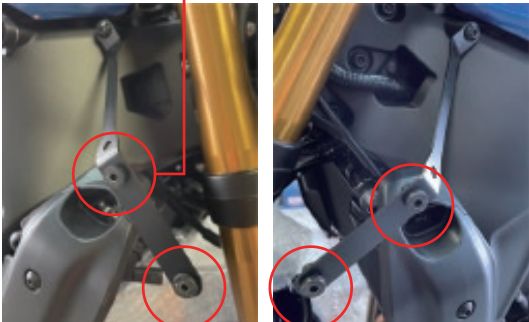
## G-2 Upper cowl bracket Installation



The brackets are the same for both the left and right sides.

Attach the upper cowl bracket to the vehicle. Use the bolts included in the kit for installation.

At this point, loosely fasten them so that there is some movement.



Insert the well nuts into the holes at the ends.

### G-3 Right Side Bracket Installation



Install the center cowl bracket and the under cowl bracket on the right side of the vehicle.

The center cowl bracket is fastened together with the engine mount bolt.

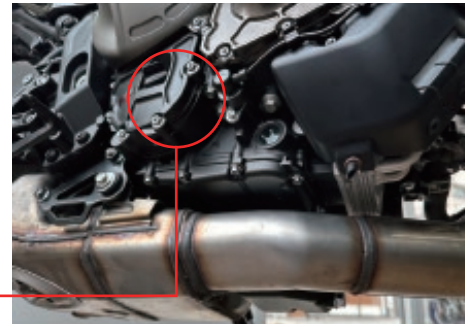
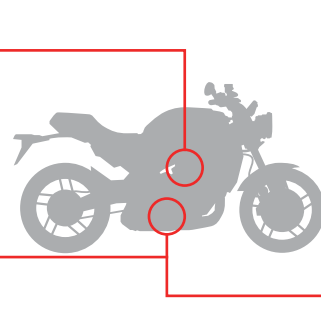
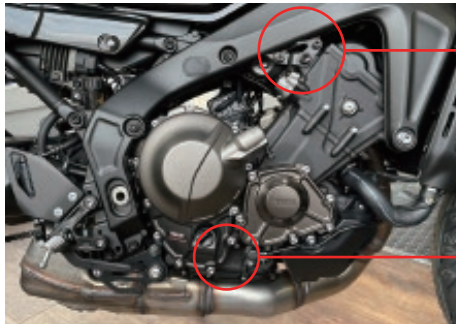
The under cowl bracket is fastened together with the clutch cover bolt.

Tightening torque: 25 Nm

### G-4



Tightening torque: 12 Nm



### G-5 Left Side Cowl Bracket Installation



Install the center cowl bracket and the under cowl bracket on the left side of the vehicle.

The center cowl bracket is fastened together with the engine mount bolt.

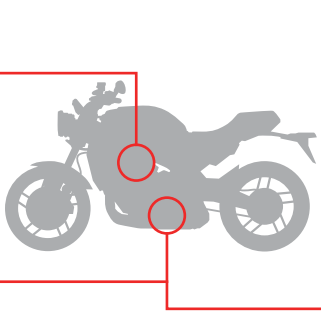
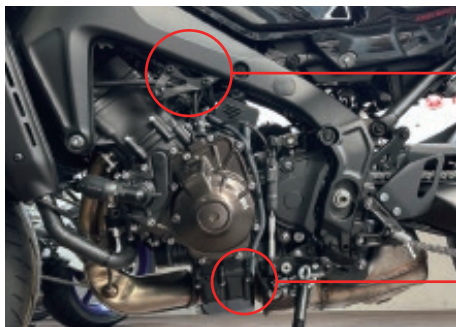
The under cowl bracket is fastened together with the oil pan bolt.

Tightening torque: 25 Nm

### G-6

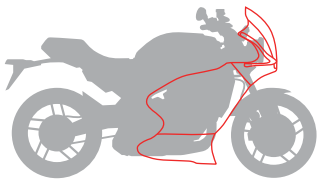
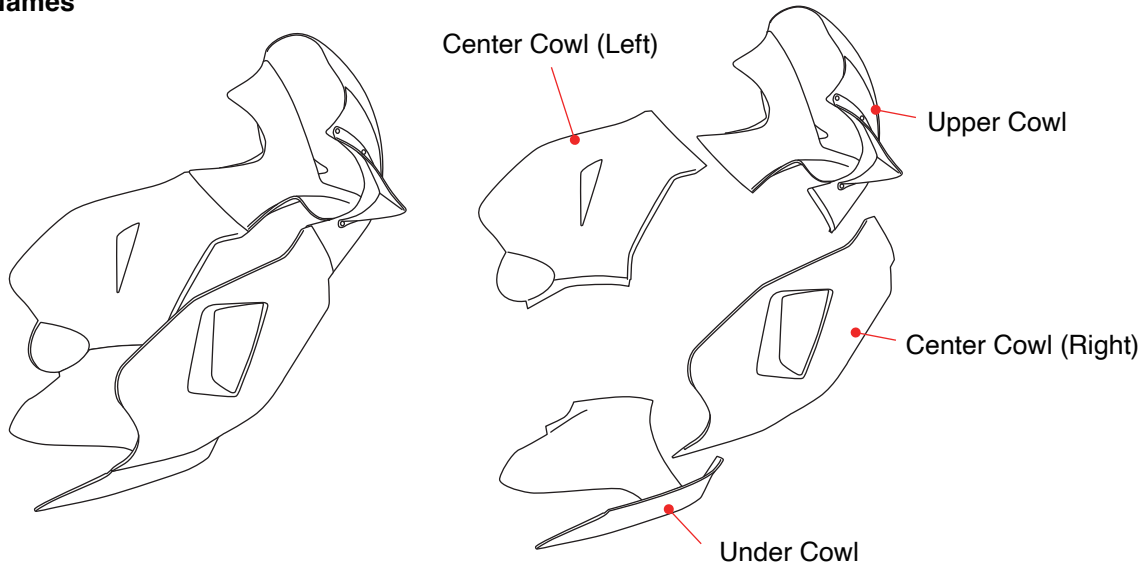


Tightening torque: 13 Nm  
Please use thread lock.



# Cowl Installation

## Cowl Names

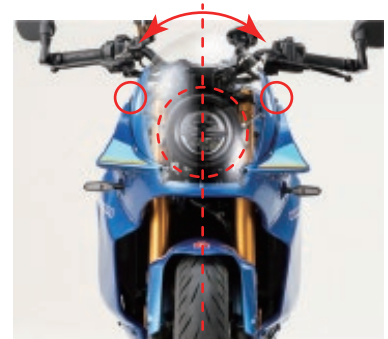


*\*Note: By the previous steps, the stays should already have well nuts and the receiving parts for the quick fasteners connected.*

### H-1 Upper Cowl Installation



Temporarily fasten the upper cowl to the sub-upper cowl brackets. Attach both sides in the same manner.



### H-2 Center Cowl Installation



While supporting the center cowl by hand, fasten the central quick fastener.

Next, using a well nut, temporarily fasten only the frontmost of the three holes at the connection part with the upper cowl. Do the same for the left side.

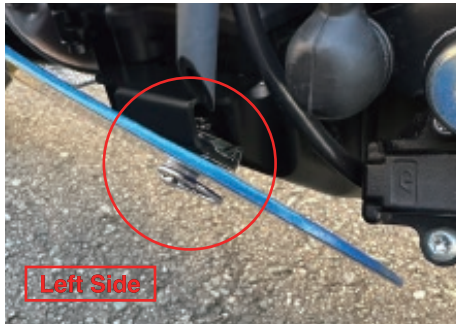




### H-3 Under Cowl Installation



*\*Note: If installing by yourself, place the under cowl on a box or similar object to prevent scratches and make the process smoother.*



Align the under cowl with the center cowl and attach it using the quick fasteners from the rear of the vehicle sequentially.

Adjust the position of the cowl on both the right and left sides alternately while fastening.

Finally, attach the under cowl to the brackets on the vehicle using the quick fasteners.

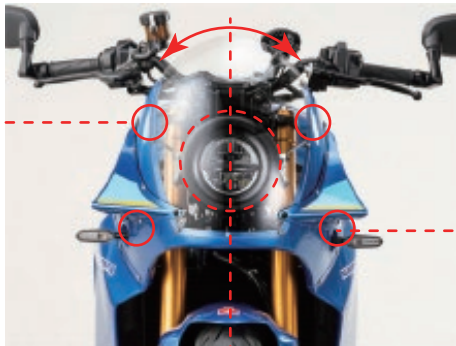


*\*Note: If the quick fasteners are difficult to tighten, press the back side of the fastener with your hand while inserting it.*

### H-4 Final Tightening of the Side Cowl



Adjust the alignment so that the center of the upper cowl and the headlight match, and tighten the well nuts connecting the upper cowl and the side cowl.



By adjusting the angles of the sub-upper cowl bracket and the upper cowl bracket, you can adjust the position of the upper cowl.

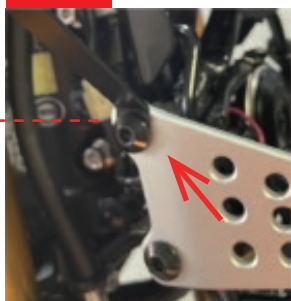


Proper Tightening of Well Nuts

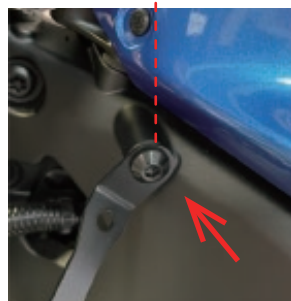


Comparison with New Well Nuts

### H-5 Final Tightening of the Cowl Bracket



Tightening Torque: 6 Nm



Tightening Torque: 8 Nm

Once the cowl is securely fixed, tighten the connecting bolts between the brackets and the main body. Ensure they are tightened firmly to prevent loosening.

The tightening torque for this part is a reference value, so be careful not to overtighten.

## Turn Signal Installation

### I-3 Turn Signal Installation



Install the turn signals in the reverse order of removal described in **F-2**

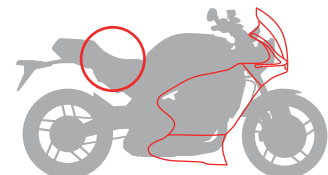


*Route the wiring through the hole of the normal turn signal fixing part and connect the coupler as shown.*

**Important** This completes the installation process of the full cowl kit. Ensure that no bolts, nuts, or cables are forgotten or pinched.



**Important** Attach the negative terminal of the battery and perform an operation check.



# NUMBER 4

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