

Repair Instruction of Cooling Fan Motor Bolt Retightening < GSX800F >

NOTE

Revised on Feb. 5

2-10. 8) on page15; Tightening torque of side cowling screw is revised from 6.0N·m to 4.5 N·m

Revised on Feb.11

Added below sentence: P.9

“Perform the same operation as described in 2) to 10) and remove the cowling on the opposite side.”

Revise the sentence on P.11: Regarding inserting the rubber sheet between radiator and radiator fan.

Added Below sentence: P.16

“Perform the same operation as described in 1) to 9) and remove the cowling on the opposite side.”

Deleted below word: P16

3) Check that cardboard box is set
securely. ~~Check the~~

Revise 2-5. Unpacking , 2-11. Final inspection after the work and 2-12. Repacking procedure.

Workflow

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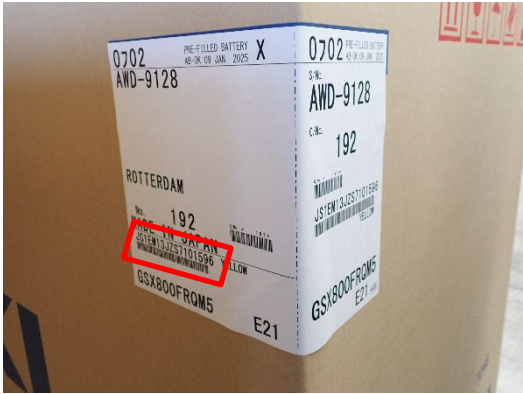


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1. Confirmation of Affected Vehicles

1-1. V.I.N. Location

V.I.N.
Location on box



GSX-8R



V.I.N.
Location on vehicle

2. Countermeasure Operations

2-1. Required Tools

Tool Name	Size, Special Tool Number
Electric impact wrench	-
Box wrench	10mm、 12mm
Box wrench (Long type 55mm)	10mm
Torque wrench	5N·m、 5.5N·m、 10N·m
Joint (Extension bar)	L=75mm、 L = 150mm
Hexagon socket wrench	4mm、 5mm
Phillips screwdriver	No.2
T-type wrench	-
Flat type Spatulas (Remover)	(To remove fastener)
Waste cloth	

Special Tools (Shipped from SMC)

No	Part Name
1	Socket for Radiator Fan Motor Bolt tightening
2	Rubber sheet

The Qty of shipped parts is depends on the number of affected units.

Please refer to shipping information.

No1



No2

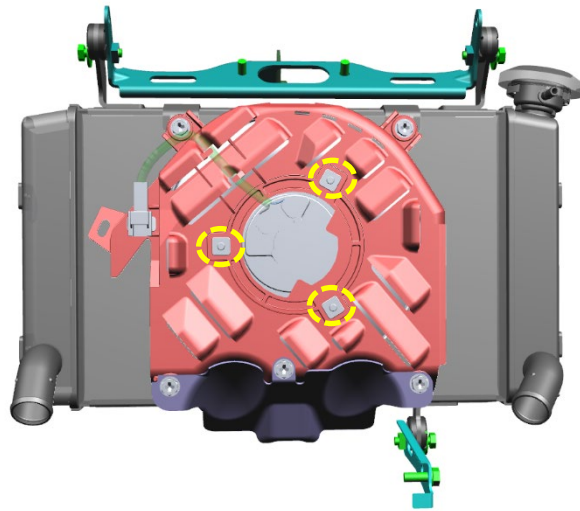
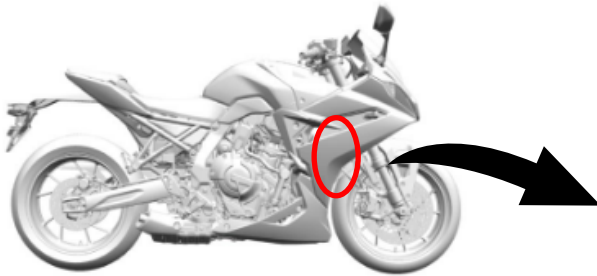


2-2. Replacement parts

No replacement parts for this repair

2-3. Countermeasure

Retightening Cooling Fan Motor Bolt.



Precautions

- When two people work together, confirm what to do next verbally each other for safety.
- Disassembled parts should be carefully stored so that they are not damaged until they are assembled, and organized so that they are not missing.
- Absolutely no fire allowed during the work.
- When handling flammable materials such as solvents and gasoline, be sure to ventilate and be careful of fire.

Refer to the service manual and set-up manual for the details not mentioned in the instructions.

2-4. Preparation

⚠ CAUTION
Assembling the vehicle in poor working condition can be hazardous.
Place the packed vehicle on a level floor where it is clean and spacious.

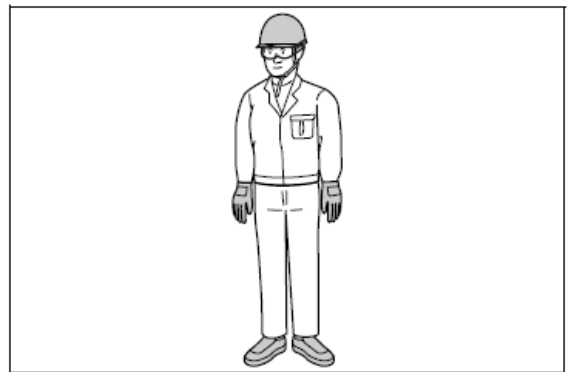
(A): Packed vehicle

(B): Working space



SELF PROTECTION

⚠ CAUTION
Assembling the vehicle without proper clothes and protective gear can be hazardous. You can be injured if you do not wear proper clothes and protective gear.
Be sure to wear proper clothes and shoes for assembling and wear protective glasses, mask or gloves as necessary.



2-5. Unpackaging

1) Remove a band.

(A): Band

NOTE: Reuse the band.



2) Remove the cardboard.

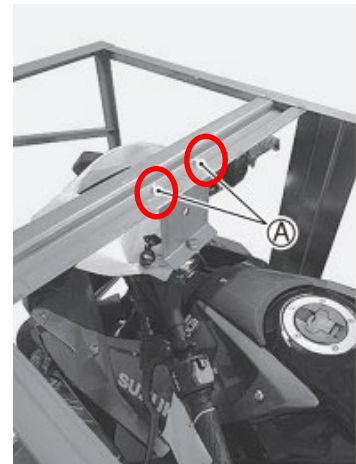


NOTE:
Reuse the cardboard.

CAUTION
Metal crates may have sharp edges and may cause injury.
Wear proper protective clothes and gear.

3) Remove the bolts (A) of the bracket and bracket

4) Remove the bolts of the top frame of packing frame and remove the top frame.



NOTE:
Protect the vehicle to prevent from damages during unpacking work

5) Remove the bolts of the packing frame and remove the front struts and side struts.



NOTE:

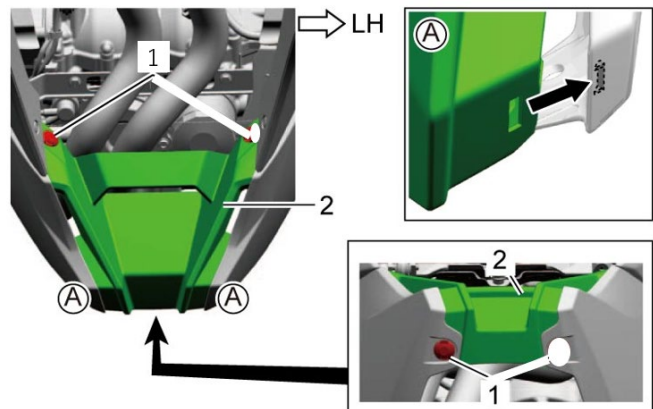
Put protective covers on edge of crate to prevent injury during repair work if necessary.

2-6. Cowling removal

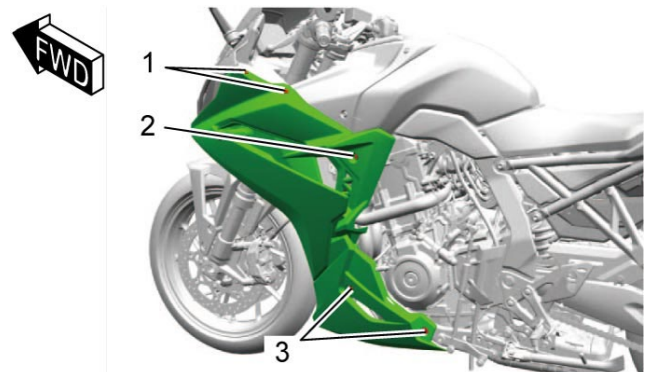
NOTE:

To carry out work simultaneously with two persons (one person for each of left and right sides).

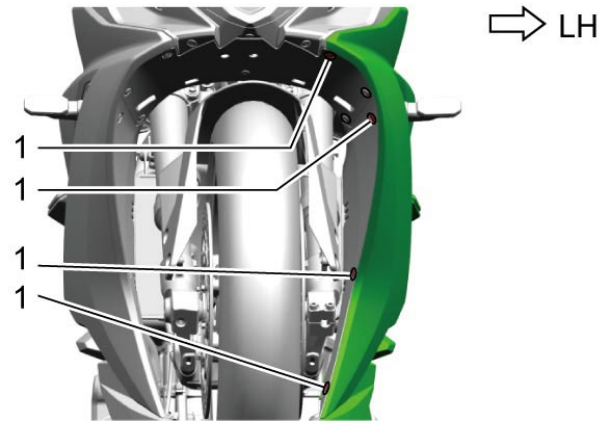
- 1) Remove the fasteners (1) and hook (Only right side).



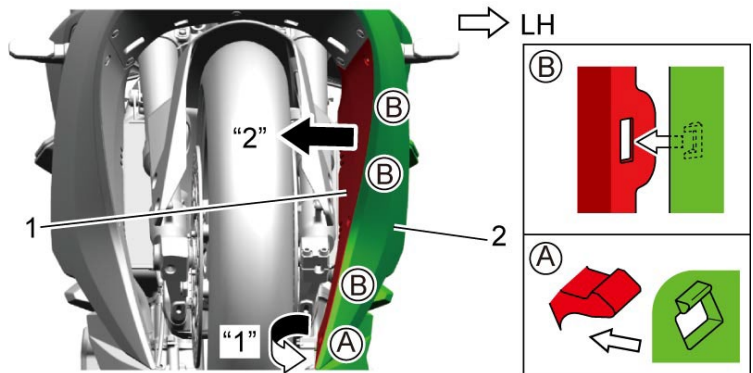
- 2) Remove the side front cowling screws (1), side cowling screw (2) and under cowling bolts (3).



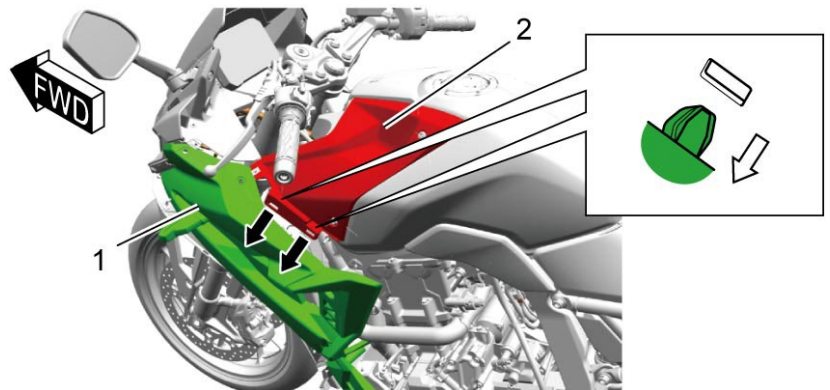
3) Remove the fasteners (1).



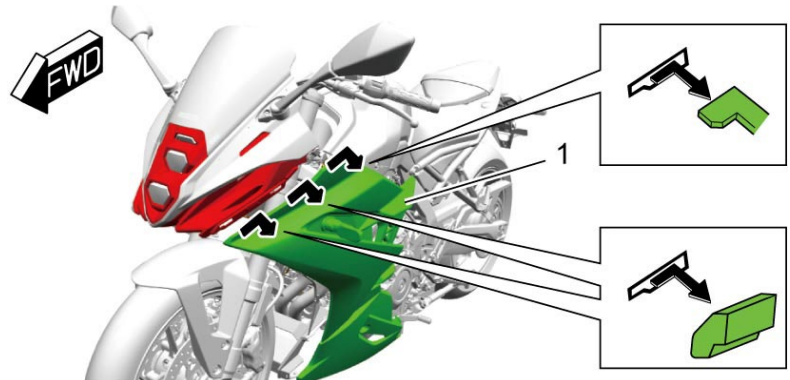
4) Detach the side inner cowling (1) from the front part of side cowling assembly (2) in the direction of the arrow in order of "1" to "2".



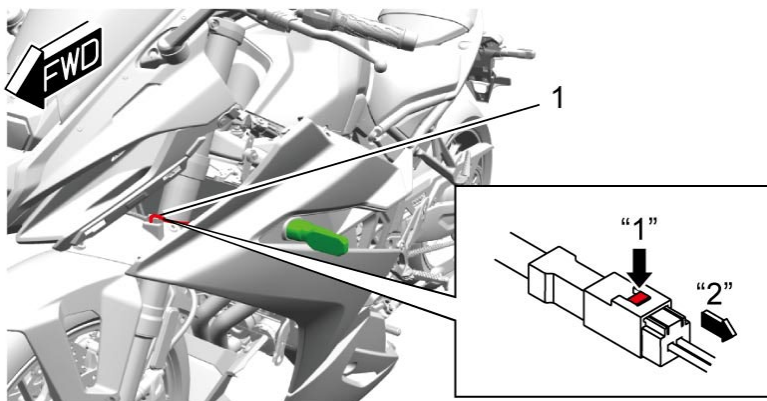
5) Detach the rear part of side cowling assembly (1) from the side rear cowling (2) in the direction of the arrow.



6) Detach the side cowling assembly (1) in the direction of arrow.



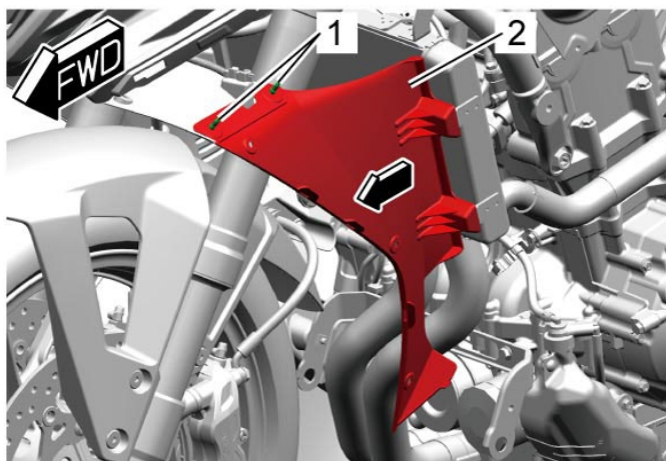
7) Disconnect the turn signal light coupler (1) in order of "1" to "2".



8) Remove the side cowling assembly.

9) Remove the fasteners (1).

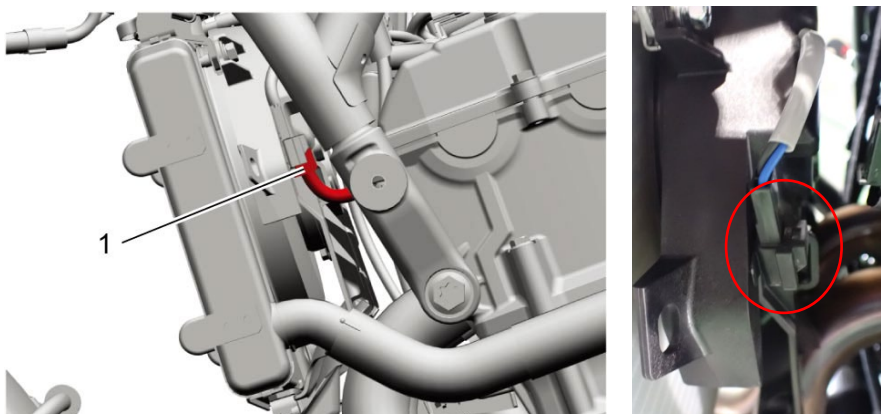
10) Remove the side inner cowling (2) in the direction of arrow.



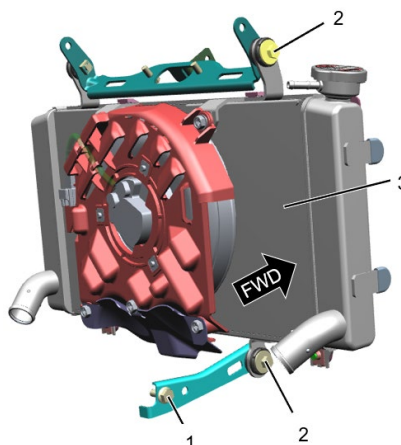
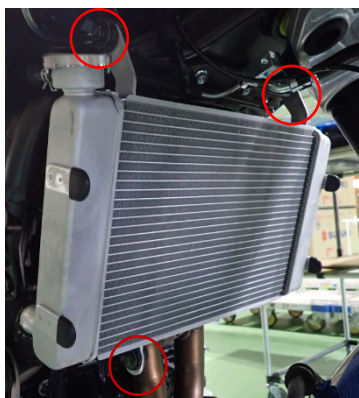
Perform the same operation as described in 2) to 10) and remove the cowling on the opposite side.

2-7. Removal of Cooling Fan Assembly

1) Disconnect the cooling fan motor coupler (1).



- 2) Remove Bracket bolt (1) and radiator mounting bolts (2).
- 3) Tilt the radiator body forward of the vehicle to open a space on the cooling fan side.



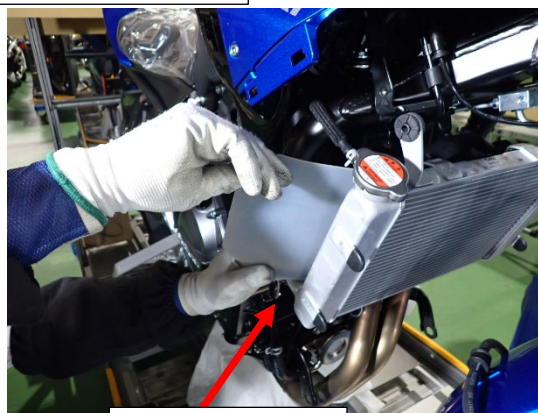
NOTE:

When removing the bracket bolt, the person on the opposite side should support the radiator.

NOTE:

The core of the radiator is easily deformed and damaged, so be careful when working.

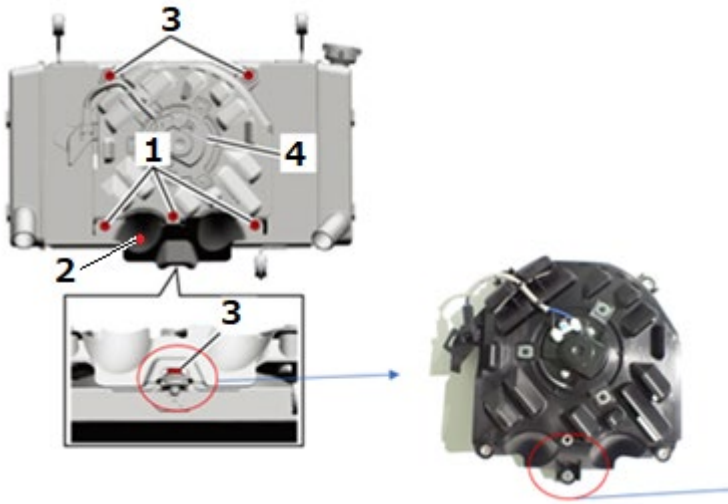
- 4) Insert the rubber sheet between the radiator fan and the radiator to prevent scratches on the radiator fin as shown in the picture.



Rubber sheet

5) Remove the bolts (1) and plate (2).

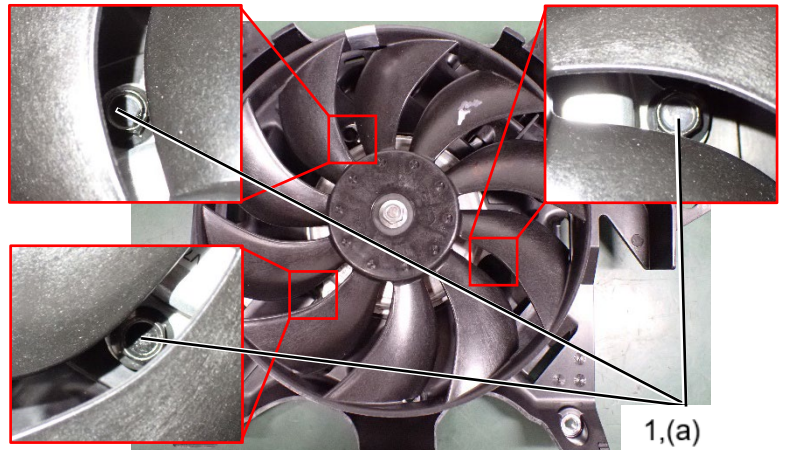
6) Remove the cooling fan assembly mounting bolts (3) and cooling fan assembly (4) from the radiator and take it from the left side of the vehicle.



2-8. Retightening of Cooling Fan Motor bolt

- 1) Retightening of Cooling Fan Motor bolt (1).

Tightening torque(a)
5.0 N·m (0.51 kgf-m, 3.70 lbf-ft)



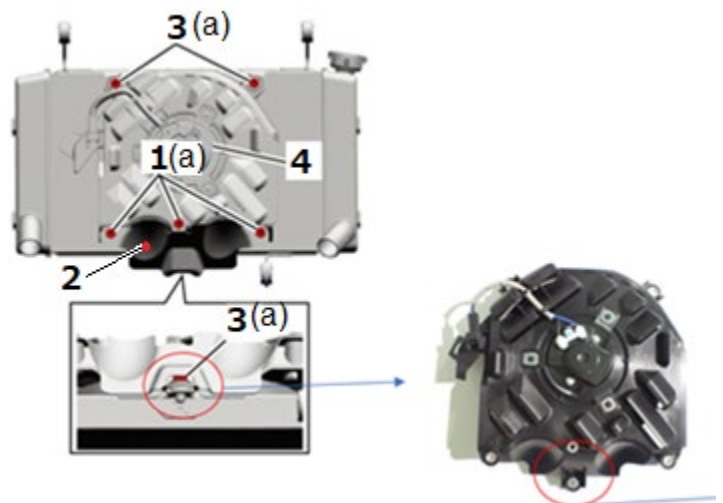
NOTE:
When retightening of Cooling Fan Motor bolt, use special tool as shown below picture.



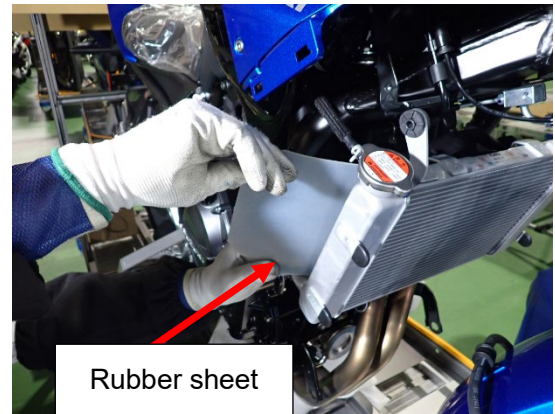
2-9. Installation of Cooling Fan Assembly

- 1) Install cooling fan assembly (4) and tighten the cooling fan assembly mounting bolts (3) to the specified torque.
- 2) Install the plate (2) and tighten the bolts (1).

Tightening torque(a)
8.4 N·m (0.86 kgf-m, 6.20 lbf-ft)



3) Remove the rubber sheet after installing the cooling fan.



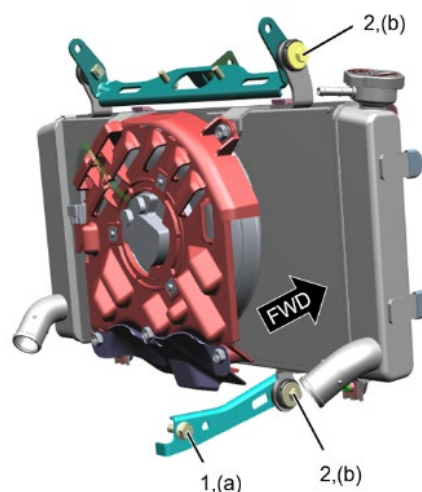
4) Tighten the Bracket bolt (1) and radiator mounting bolts (2) to the specified torque.

Tightening torque(a)

10.0 N·m (1.0 kgf-m, 7.50 lbf-ft)

Tightening torque(b)

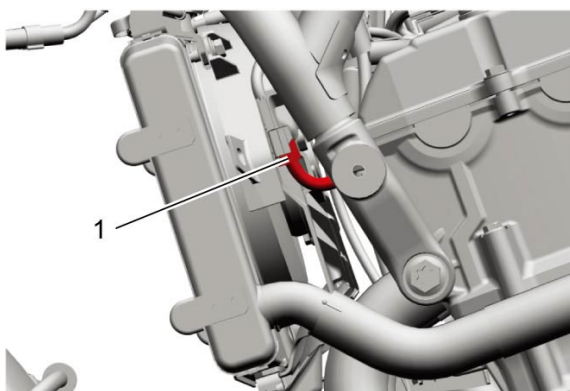
5.5 N·m (0.56 kgf-m, 4.05 lbf-ft)



NOTE:

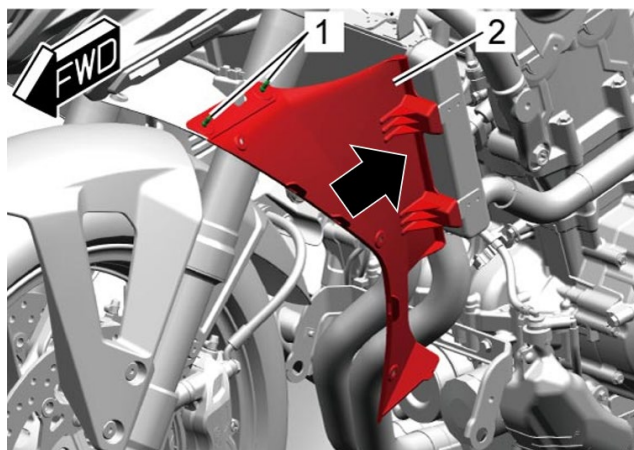
When installing the bracket bolt, the person on the opposite side should support the radiator.

5) Connect the cooling fan motor coupler (1).

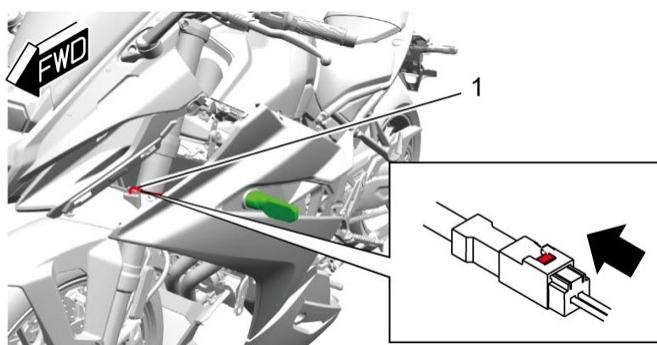


2-10. Installation of Cowling

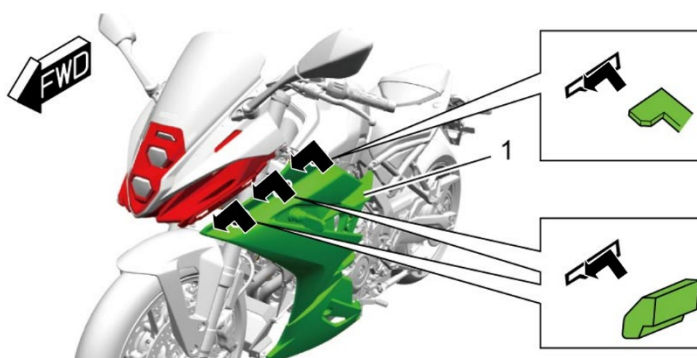
- 1) Install the side inner cowling (2) in the direction of arrow.
- 2) Install the fasteners (1).



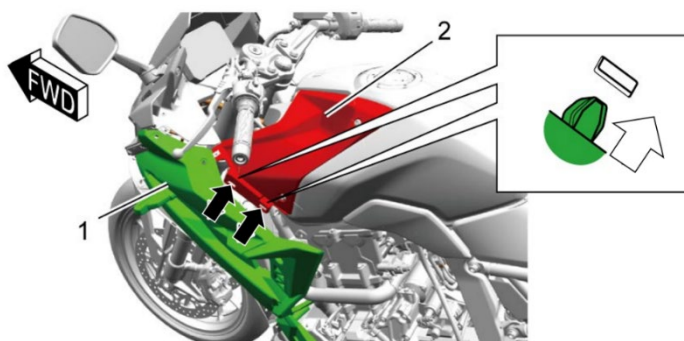
- 3) connect the turn signal light coupler (1) in the direction of arrow.



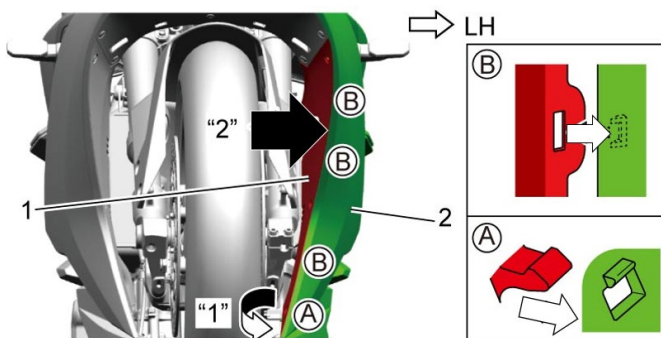
- 4) Attach the side cowling assembly (1) in the direction of arrow.



- 5) Attach the rear part of side cowling assembly (1) from the side rear cowling (2) in the direction of the arrow.



- 6) Attach the side inner cowling (1) from the front part of side cowling assembly (2) in the direction of the arrow in order of "2" to "1"



- 7) Install the fasteners (1).



- 8) Tighten the side front cowling screws (1), side cowling screw (2) and under cowling bolts (3) to the specified torque.

Tightening torque(a)

10.0 N·m (1.0 kgf·m, 7.50 lbf·ft)

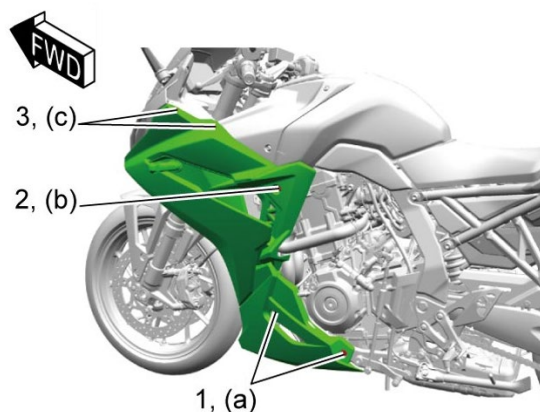
Tightening torque(b)

~~6.0 N·m (0.61 kgf·m, 4.45 lbf·ft)~~

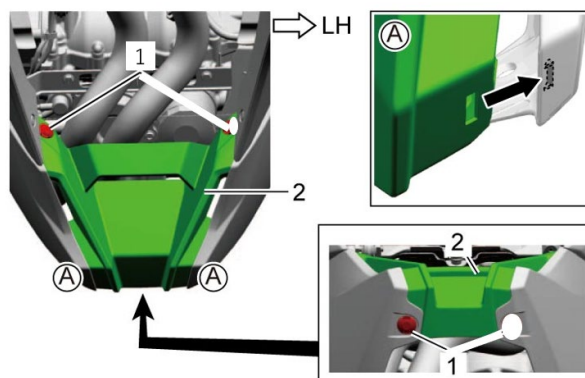
4.5 N·m (0.46 kgf·m, 3.35 lbf·ft)

Tightening torque(c)

4.5 N·m (0.46 kgf·m, 3.35 lbf·ft)



- 9) Install the fasteners (1) (Only right side).



Perform the same operation as described in 1) to 9) and install the cowling on the opposite side.

2-11. Final inspection after the work

- (1) Check that each part is securely set and tightened.
- (2) Check each parts has no damage
- (3) Check the radiator core has no deformation or damage.

2-12. Repacking

- 1) Repacking the vehicle with the inverse procedure of 2-5.

NOTE:

- **Confirm that V.I.N. of the cardboard is matched the vehicle's one.**
- **Restore all protective material after the work is done.**
- **Confirm that the box containing parts is stored in the crate.**

- 2) Check that cardboard box is set securely. ~~Check the~~

NOTE:

Align the vehicle with the illustration on the cardboard.

