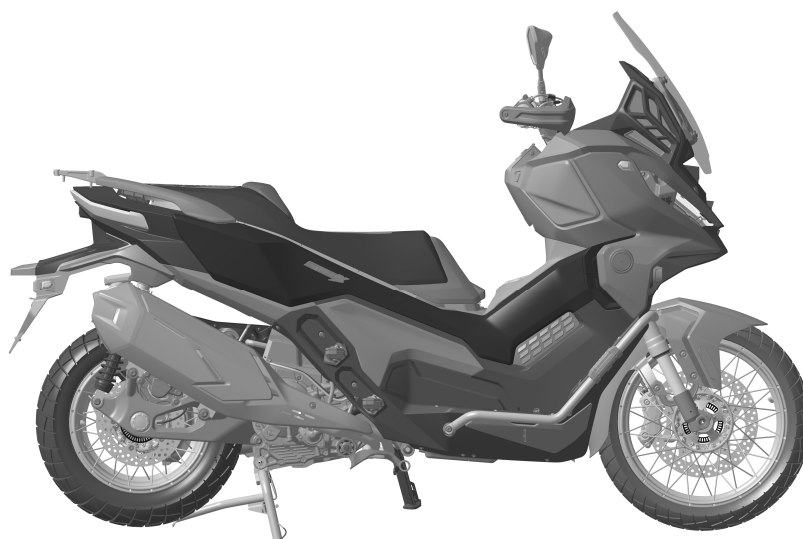


SERVICE MANUAL

LX400T-A
LXMT-WX-036



Preface

As the variety of motorcycle models on the market continues to grow, new structures and technologies are constantly being adopted. To help Loncin users and maintenance men better master the maintenance, adjustment, and repair techniques for the LX400T-A vehicle, we have compiled this service manual. We hope this manual will provide convenience and technical guidance for Loncin users and maintenance men, and serve as a handy reference for repair technicians.

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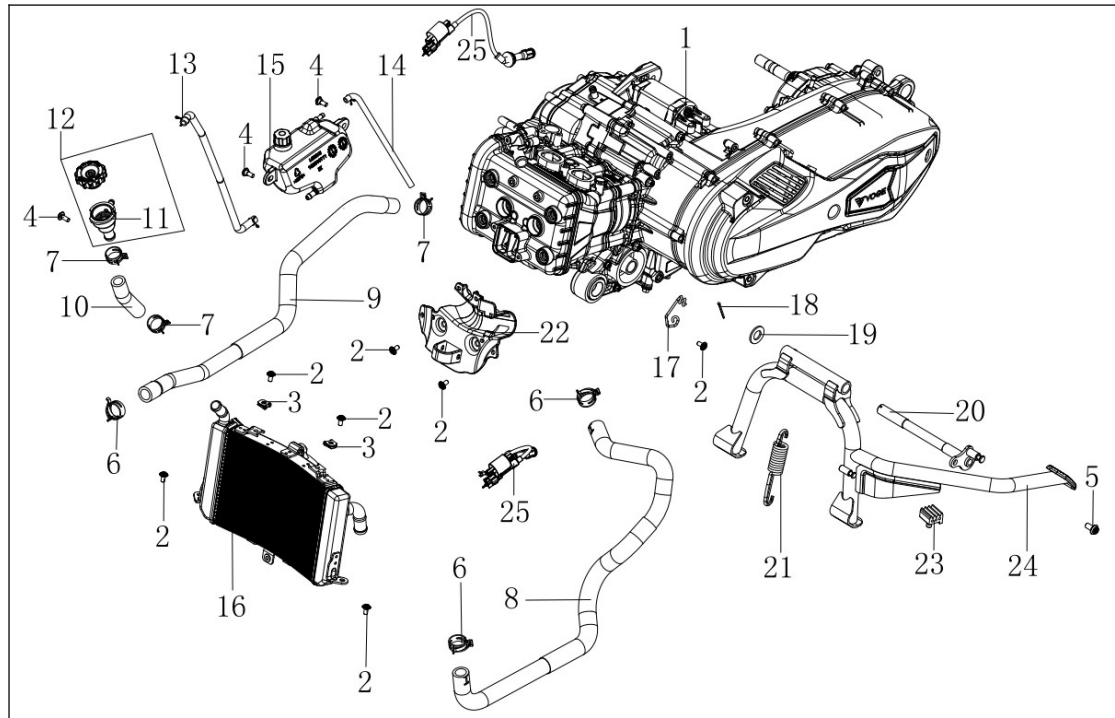
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1. Disassembly, re-assembly and maintenance for engine

Engine kit and its parts



1	KSL engine	EA	1
2	Internal torx head bolt	EA	7
3	Clip nut	EA	2
4	Internal torx head bolt	EA	3
5	Hex. flange bolt	EA	1
6	Hose clamp	EA	2
7	Hose clamp	EA	2
8	Water hose	EA	1
9	Water hose	TAI	1
10	Water hose	EA	1
11	Filler neck	EA	1
12	Filler cap	EA	1
13	Water hose	EA	1
14	Water hose	EA	1
15	Coolant tank	EA	1
16	Radiator assembly	EA	1
17	Wire clip	EA	1
18	Split pin	EA	1
19	Flat washer	EA	1
20	Shaft	EA	1

21	Tension spring	EA	1
22	Oil pipe hook	EA	1
23	Main stand cushion rubber	EA	1
24	Main stand	EA	1
25	Ignition coil	EA	2

Disassembly and re-assembly for engine

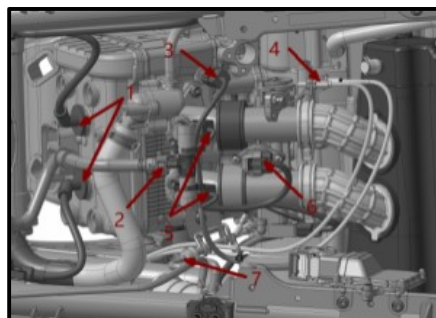
Keep the vehicle upright by parking stand.

Refer to the seat bucket removal procedure and take out the seat bucket.

Disconnect the ignition coils 1 (left and right), the fuel hose 2, and the cylinder temperature sensor connector 3.

Remove the throttle cable 4 (upper and lower) and the injector connector 5.

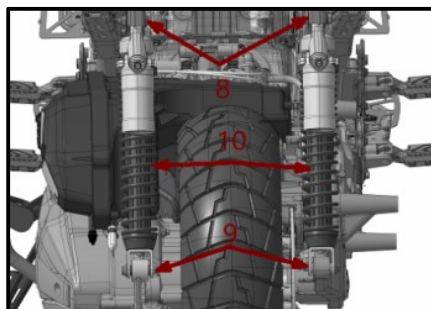
Disconnect the idle speed control valve connector 6 and the breather hose 7.



Refer to the muffler assembly removal procedure and remove the muffler assembly.

Remove bolts 8 (left and right) and bolts 9 (left and right).

Take out the rear shock absorbers 10 (left and right).



Refer to the rear disc brake caliper removal procedure and remove the rear disc brake caliper.

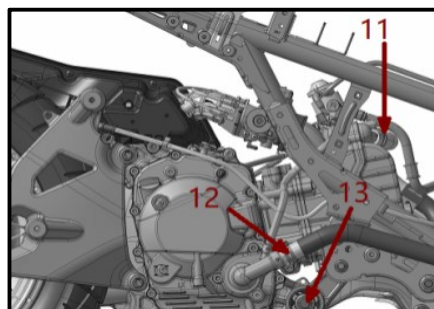
Refer to the rear swingarm removal procedure and remove the rear swingarm.

Refer to the rear wheel speed sensor removal procedure and remove the rear wheel speed sensor.

Disconnect the water inlet hose 11 and the water outlet hose 12.

Remove the bracket body-to-engine connecting bolt 13.

Take out the engine assembly together with the rear wheel, air filter, and throttle body assembly.

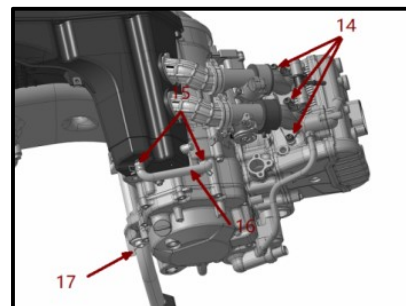


Refer to the rear wheel removal procedure and remove the rear wheel.

Remove the bolt 14 securing the throttle body assembly.

Remove the breather hose clip 15 and take out the breather hose 16.

Pull out the main stand pivot pin 17.



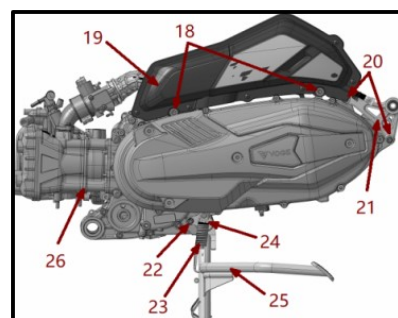
Remove the left fixing bolt 18 of the air filter, and take out the air filter together with the throttle body assembly 19.

Remove the rear shock absorber connecting plate fixing bolt 20, and take off the rear shock absorber connecting plate 21.

Remove the main stand mounting bolt 22, the tension spring 23, and the main stand pivot pin 24.

Remove the main stand 25, and the engine 26 can then be obtained.

The installation procedure is exactly the reverse of the removal procedure.



Note:

When removing the engine, be sure to use special tools as much as possible to avoid personal injury due to the excessive weight of the engine.

Important:

Please dispose of the drained coolant in a proper and environmentally friendly manner.

When refilling coolant during re-assembly, please refer to the coolant replacement section.

During re-assembly, pay attention to bundling the wiring harness and restoring it to the state before disassembly, with full consideration given to factors such as waterproofing, interference, and heat damage.

Parameters:

Engine and engine bracket connecting bolt (nut)	Nm	M16	120
Rear shock absorber connecting piece to engine connecting bolt	Nm	M8	22
Rear shock absorber lower fastening bolt	Nm	M10	35
Rear shock absorber upper fastening bolt	Nm	M10	40
Rear disc brake caliper to swingarm mounting bolt	Nm	M8	27
Swingarm to engine mounting bolt	Nm	M10	40
Rear axle nut	Nm	M16	120
Muffler to swingarm connecting bolt	Nm	M8	22
Muffler front section to engine	Nm	M8	18
Throttle body assembly to engine mounting bolt	Nm	M6	9
Air filter to engine mounting bolt	Nm	M6	9
Main stand shaft to engine mounting bolt	Nm	M8	22

Engine oil filling-up

Remove the oil gauge from the left rear side of the engine.

Add engine oil.

Keep the vehicle upright by parking stand.

Reinstall the oil gauge.

Start the engine and let it idly run for 180–300 seconds.

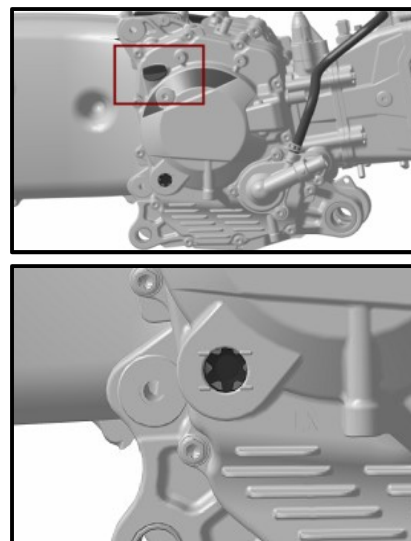
Stop the engine, remove the oil gauge, and wait one minute to allow the oil to flow back.

Reinstall and tighten the oil gauge, then check whether the oil level line is between the upper and lower scale marks.

If the oil level is not within the specified range, repeat the above steps to add or drain oil until the oil level falls between the upper and lower marks.

Note:

If the oil level is above the upper mark, excess oil can also be extracted from the oil filler port using a dedicated tool.



Important:

After adding engine oil, start the vehicle and let it idle for 30 seconds before checking the oil level again.

When checking the oil level, the vehicle must be kept upright; otherwise, the oil level cannot be correctly determined.

Parameters:

Engine oil capacity (without filter change)	L	1.6
Engine oil capacity (with filter change)	L	1.7
Engine oil capacity (engine disassembled)	L	2.2
Oil specification	Recommended engine oil: 10W/40, SL grade or higher.	

Replacement for oil and secondary oil filter

Place the oil collection pan under the oil filter and drain plug at

The bottom of the engine. Remove the drain plug.

Use a special tool (as shown in the figure below) to remove the oil filter, drain all the oil, and then install the drain plug, a new oil filter, and the drain plug washer.

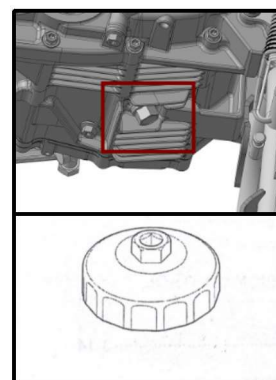
Install the O-ring onto the oil filter cover and apply new engine oil to it.

The installation procedure is exactly the reverse of the removal procedure.

Note:

After completing the above work, use a cleaning agent to remove oil stains from the surfaces of the engine and muffler, then blow dry with compressed air.

Important:

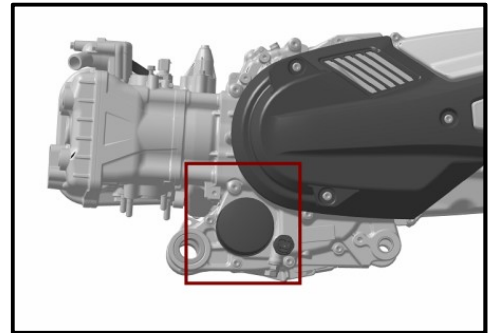


Dispose of the used engine oil and oil filter in an environmentally friendly manner.

Inspect the O-ring of the oil filter and replace it if necessary.

Parameters:

Engine oil drain bolt	N.m	22
Oil filter	N.m	11



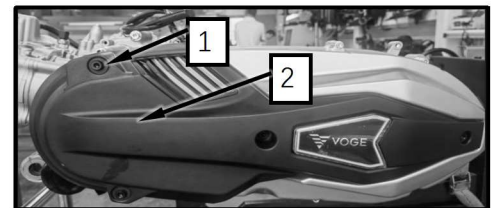
CVT. Belt inspection and

replacement

Remove the following parts:

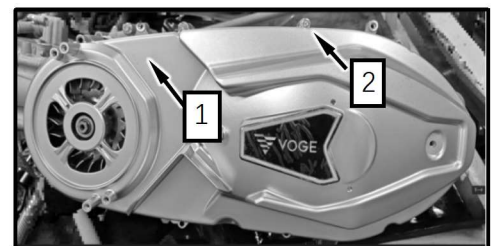
Breather chamber outer cover bolts [1].

Take off the breather chamber outer cover [2].



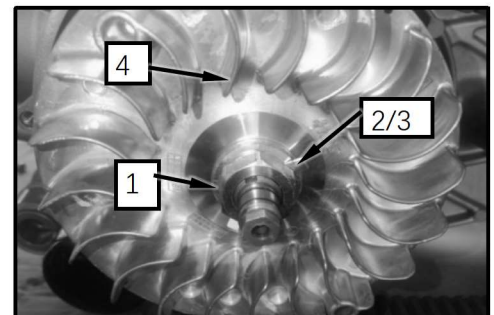
Left cover mounting bolts [1].

Left crankcase cover [2].

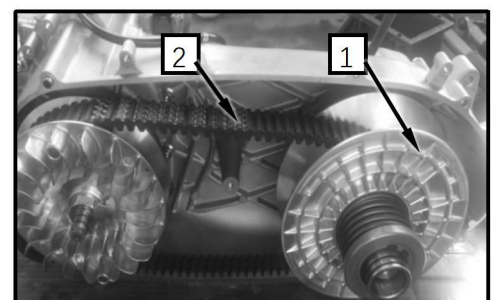


Drive pulley securing nut [1], washer [2], and washer [3].

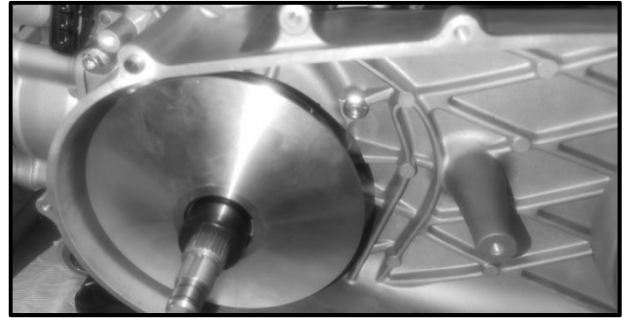
Drive face [4] of the drive pulley.



Clutch shoe assembly [1] and drive belt [2].



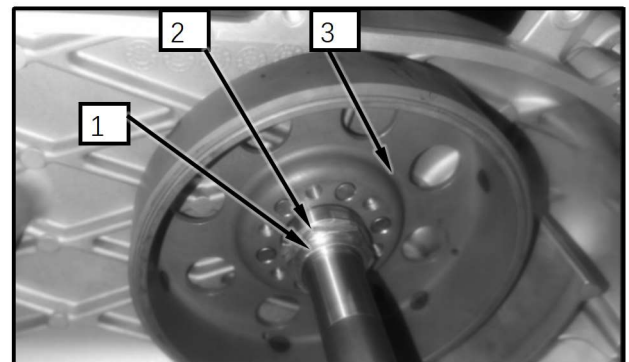
Sliding drive face sleeve [1] and drive face assembly [2].



Clutch friction disc securing nut [1] and washer [2].

Clutch friction disc [3].

The installation procedure is the reverse of the removal procedure.



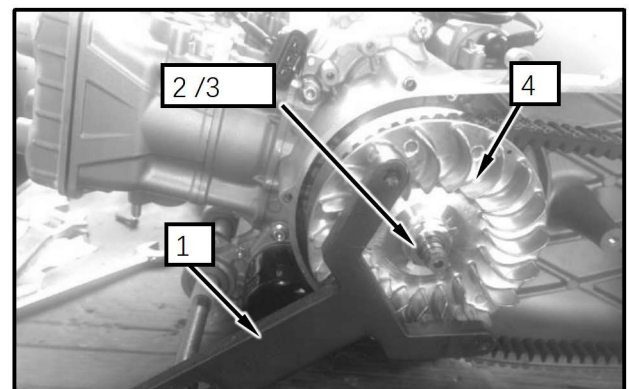
Removal for driving belt wheel

Remove the breather chamber outer cover.
Remove the breather chamber filter screen assembly.

Remove the left crankcase cover assembly.
Install the rotation-stopping tool [1].

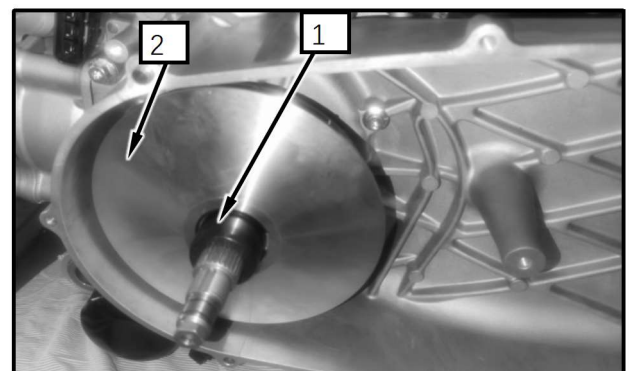
Remove the drive pulley mounting nut [2] and flat washer [3].

Remove the fixed drive face [4].



Remove the sliding drive face sleeve [1].

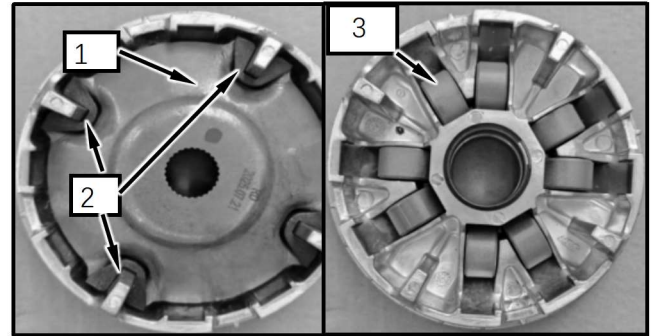
Remove the sliding drive face assembly [2].



Remove the ramp plate [1] and the ramp plate side piece [2].

Inspect them and replace promptly if worn excessively.

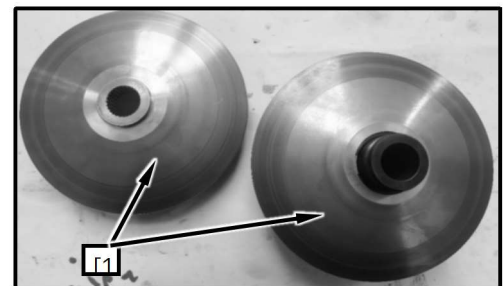
Remove the weight rollers [3].



Inspection for driving belt wheel

If the drive pulley surface [1] is damaged, the sliding drive face and/or the drive face should be replaced.

If the drive face mounting hole is damaged or worn, replace it.



Sliding drive face mounting hole diameter A

Standard: 35.03–35.1 mm

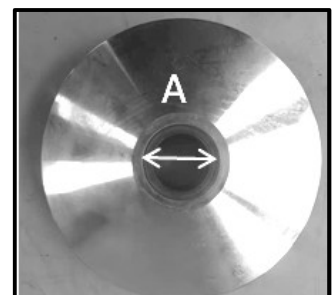
Service limit: 35.08 mm

If the sleeve is damaged or worn, replace it.

Bushing outer diameter

Standard: 35–35.025 mm

Service limit: 34.96 mm



The rollers should be inspected and cleaned every 5,000 km (5 months).

Replace them according to wear condition when necessary.

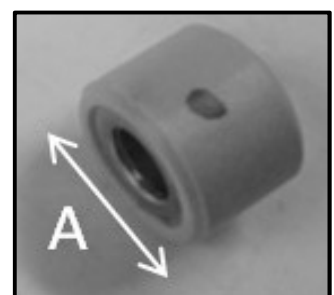
Roller outer diameter A

Standard: 25.9–26.1 mm

Service limit: 25.4 mm

Install the drive pulley assembly.

Installation is the reverse of removal.



Note:

Clean the following parts with a degreasing cleaner, then wipe the drive face tapered surface dry with a clean cloth.

As shown in the figure, use a pair of suitable straightedges placed across several positions to measure the belt width A.

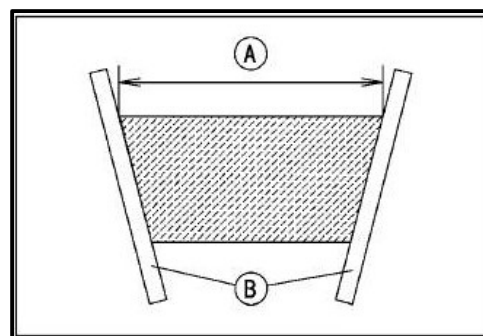
If the measured value exceeds the service limit, replace the drive belt.

Belt width

Standard: 26–27.2 mm (Bando)

26.7–27.3 mm (Gates)

Service limit: 25 mm (Bando) / 25.7 mm (Gates)



Inspect the drive belt for cracks, breakage, or peeling.

The belt should be inspected and cleaned

every 5,000 km (5 months).

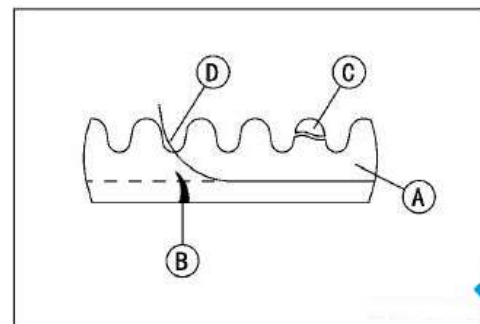
Replace it according to wear condition when necessary, and it must be replaced at 10,000 km.

Belt A

Crack B

Breakage C

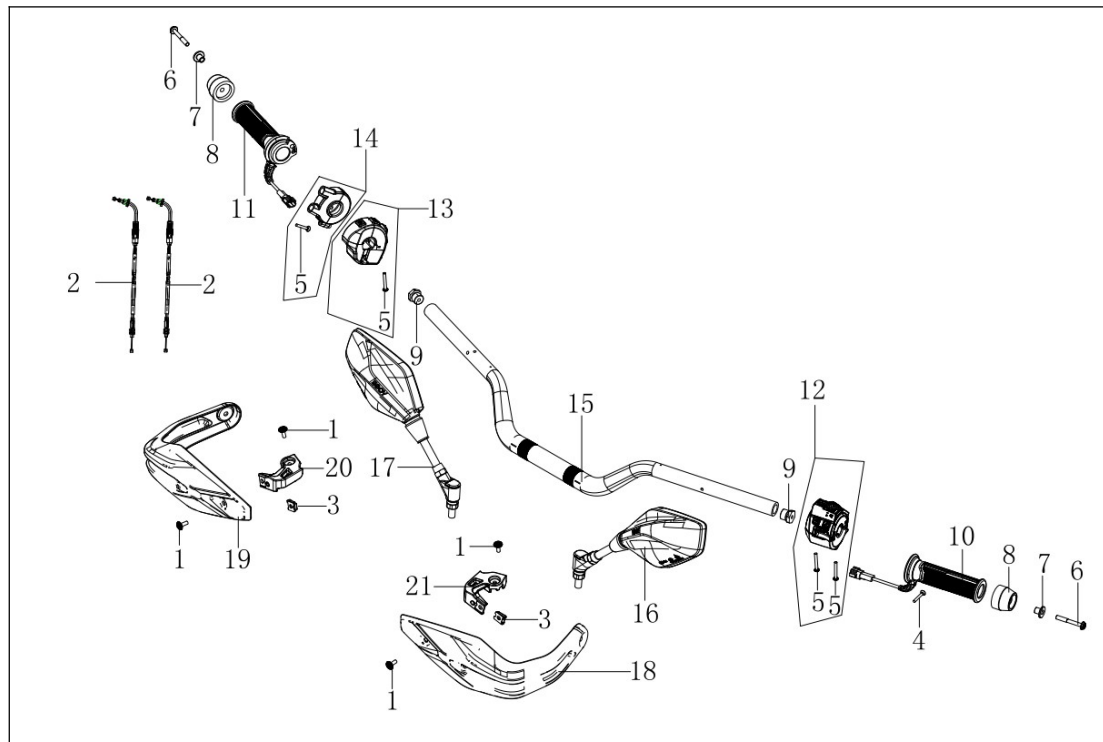
Peeling D

**Parameters:**

Drive pulley nut torque	N.m	100
Clutch friction disc securing nut torque	N.m	180
Driven pulley shoe assembly securing nut torque	N.m	100

2. Disassembly, re-assembly and maintenance for handle bar

Handle bar kit and its parts



1	Internal torx head bolt	PCS	2
2	Throttle cable	PCS	2
3	Clip nut	PCS	2
4	Cross-recessed countersunk head screw	PCS	1
5	Hexagon socket screw	PCS	4
6	Hex. flange bolt	PCS	2
7	Flanged washer	PCS	2
8	Decorative head	PCS	2
9	Handlebar balance weight	PCS	2
10	Handlebar grip	PCS	1
11	Throttle assy (or throttle grip assy)	PCS	1
12	Left brake lever assembly	PCS	1
13	Right brake lever assembly	PCS	1
14	Throttle grip holder	SET	1
15	Handlebar tube	PCS	1
16	Left rearview mirror	PCS	1
17	Right rearview mirror	PCS	1
18	Left handlebar cover	PCS	1
19	Right handlebar cover	SET	1
20	Handlebar cover bracket	PCS	1

21	Handlebar cover bracket	PCS	1
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Disassembly and re-assembly for handle bar kit

Keep the vehicle upright using the parking stand.

Remove the left and right rearview mirrors 1 and 2.

Remove the left and right bolts 3 and 4, and remove the left and right decorative heads 5 and 6.

Remove the left and right handlebar cover mounting bolts 7 and 8.

Remove the left and right handlebar covers 9 and 10.

Remove bolts 11 and 12, and remove the left and right handlebar covers 13 and 14.

Remove the front and rear disc brake master cylinder mounting bolts 15 and 16, and remove the front and rear disc brake master cylinders.

Remove the left and right brake lever mounting bolts 17 and 18, and remove the left and right brake levers.

Remove the handlebar grip mounting bolt 19, and remove the handlebar grip.

Refer to the throttle cable removal procedure and disconnect the throttle cable from the throttle body.

Remove the throttle grip holder mounting bolt, and remove the throttle grip holder and the throttle grip.

Remove the handlebar clamp mounting bolts 21, and remove the handlebar clamps 21, then the handlebar tube 23 can be taken out.

The re-assembly procedure is exactly the reverse of the removal procedure.

Note:

When re-installing the left and right brake lever assemblies, make sure to align the brake lever locating pins with the corresponding mounting holes on the handlebar tube, then tighten the brake lever assembly bolts.

When removing and re-installing the front and rear disc brake master cylinders, do not remove the bolt next to the fluid reservoir; if it is removed, the brake system will need to be bled after re-assembly.

Important:

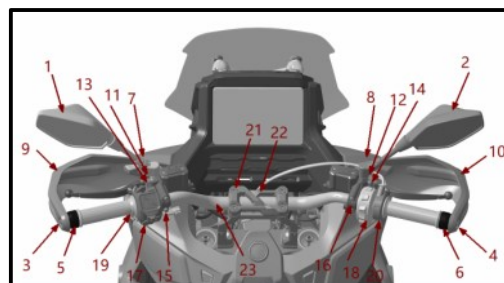
After re-assembly, confirm that the throttle grip has the proper free play.

After re-installing the handlebar assembly, check that the handlebar angle is appropriate. Turn the handlebar to the full left and full right positions to ensure that the handlebar components and cables do not interfere with the fuel tank or surrounding parts. Adjust if necessary; otherwise, there may be a safety risk.

When re-installing the rearview mirrors, re-adjust the mirror angles to confirm that the field of view is reasonable and safe.

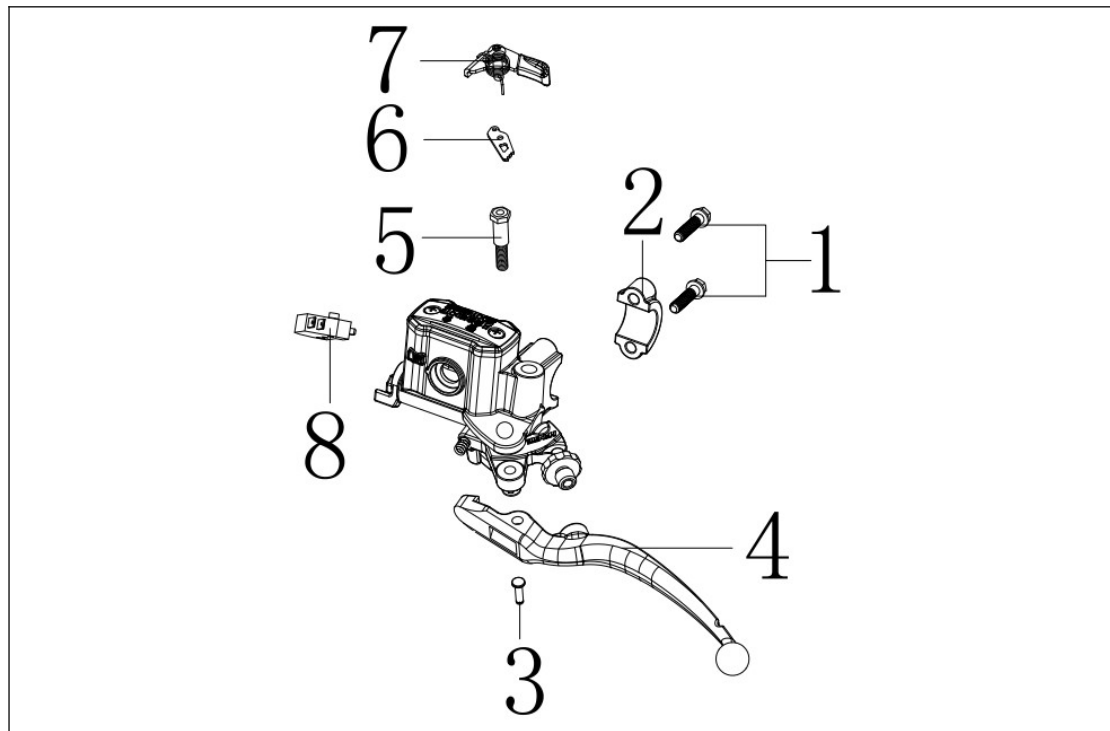
Parameters:

Handlebar clamp tightening torque	Nm	M8	20
Front and rear disc brake master cylinder tightening torque	Nm	M6	9



Handlebar tube decorative head tightening torque	Nm	M6	9
Rearview mirror tightening torque	Nm	M10	25
Left and right brake lever retaining bolts	Nm	M5	1.5
Throttle cable upper nut tightening on throttle body	Nm	M6	9
Throttle cable lower nut tightening on throttle body	Nm	M6	9

Disassembly and re-assembly for left lever kit



1	Hexagon socket screw	PCS	2
2	Handle clamp	PCS	1
3	Hexagon socket screw	PCS	1
4	Left handle	PCS	1
5	Disc brake lever bolt	PCS	1
6	Parking brake hook mounting block	PCS	1
7	Rear disc brake accessory	PCS	1
8	Rear brake switch	PCS	1

Use a tool to remove the hexagon socket screw 3, and take out the left handle 4.

Important:

During re-assembly, apply lithium-based grease to all pivot points of the left handle assembly.

After re-installing the clutch switch, repeatedly confirm that it is properly seated, and also verify on the vehicle that the clutch switch operates (opens and closes) correctly.

Disassembly and re-assembly for throttle cable

Refer to the fuel tank assembly removal procedure to remove the surrounding covers around the fuel tank.

Loosen the nuts, rotate the cable reel, and detach the lower ends of the two throttle cables respectively.

Remove the throttle grip housing assembly from the handlebar, then detach the upper ends of the two throttle cables, and finally remove the throttle cables completely.

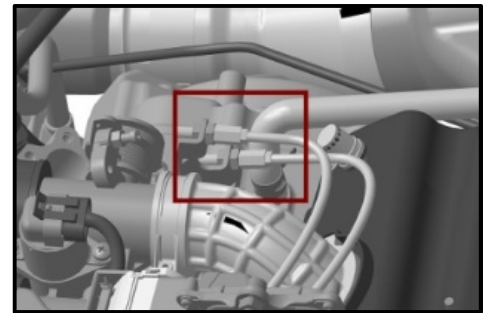
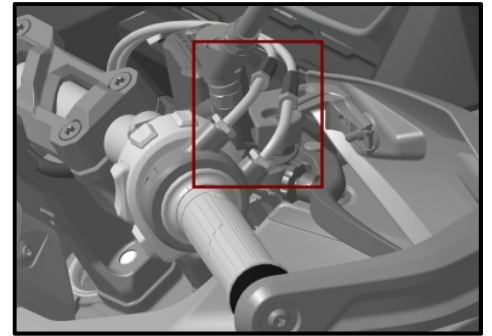
Replace with new throttle cables of the same specification.

The re-assembly process is exactly the reverse of the disassembly procedure.

Note:

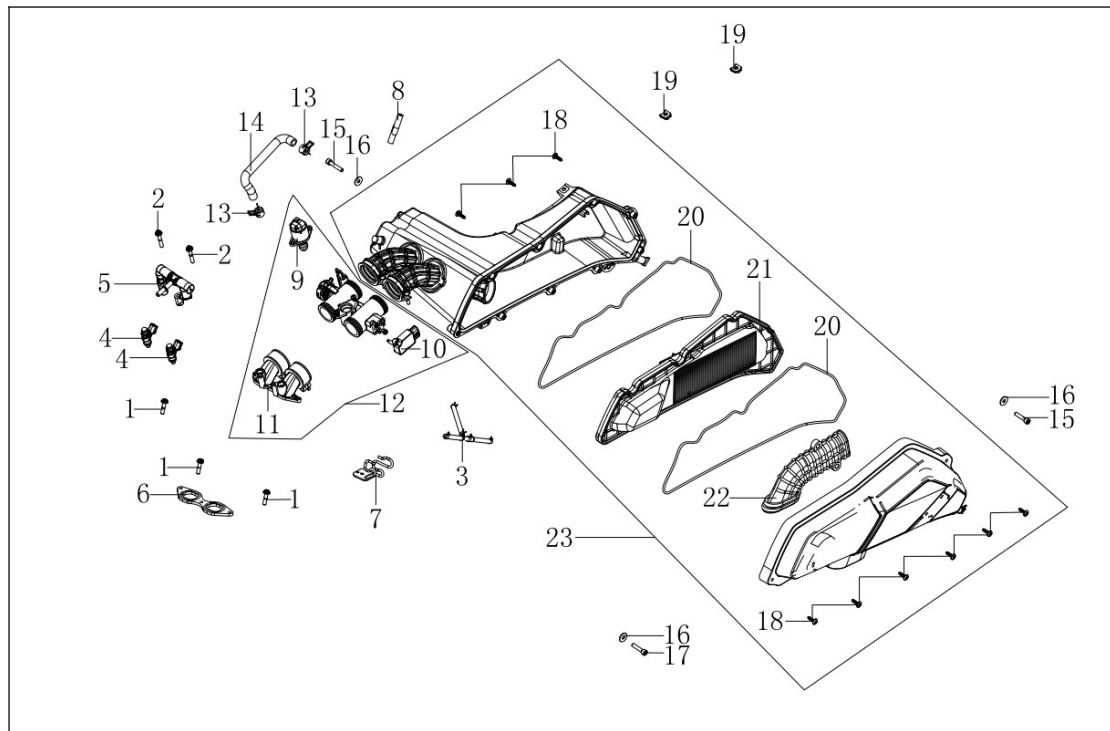
When re-installing the throttle cables, pay attention to the cable routing and ensure it remains exactly the same as before disassembly; otherwise, the throttle return may be affected.

After re-assembly, rotate the throttle grip repeatedly to verify that the installation is correct and to check for any sticking or failure to return to the idle position.



3. Disassembly, re-assembly and maintenance for air filter

Air filter and its parts



1	Hexagon flange bolt with hexalobular socket	SET	3
2	Hexagon flange bolt with hexalobular socket	EA	2
3	Breather hose assembly	EA	1
4	Fuel injector	EA	2
5	Injector cap body	EA	1
6	Heat insulator gasket	EA	1
7	Wire clamp	EA	1
8	Breather hose	EA	1
9	Idle air control valve	EA	1
10	Intake air temperature and pressure sensor	EA	1
11	Intake pipe	EA	1
12	Throttle body assembly	EA	1
13	Hose clamp	EA	2
14	Breather hose	EA	1
15	Hexagon socket screw	EA	2
16	Flat washer	EA	3
17	Hexagon socket screw	EA	1
18	Cross-recessed pan head tapping screw	EA	9

19	Clip nut	EA	2
20	Air filter seal strip	EA	2
21	Air filter element	EA	1
22	Air filter intake hose	EA	1
23	Air filter assembly	EA	1

Disassembly and re-assembly for element of air filter

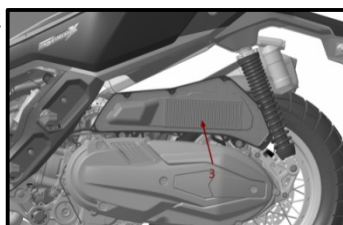
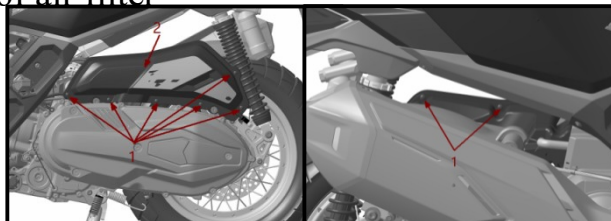
Keep the vehicle upright using the center stand.

Keep the vehicle upright using the center stand.

Remove the mounting bolt 1 with a Phillips screwdriver, then remove the air filter housing 2.

Take out the air filter element and replace it with a new one.

The re-assembly process is exactly the reverse of the disassembly procedure.



Important:

When re-installing the filter element assembly, repeatedly verify that the sealing ring and other components are properly seated; otherwise, poor sealing of the filter element may allow dust to enter the engine, affecting the engine's service life.

If the filter element is damaged, it must be replaced.

If the filter element is contaminated with oil, it must be replaced.

If the filter element is visibly soaked or wet, it must be replaced.

Dispose of the replaced filter element in a proper and environmentally friendly manner.

Disassembly and re-assembly for air filter

Keep the vehicle upright using the center stand.

Refer to the fuel tank assembly removal procedure to remove the seat bucket.

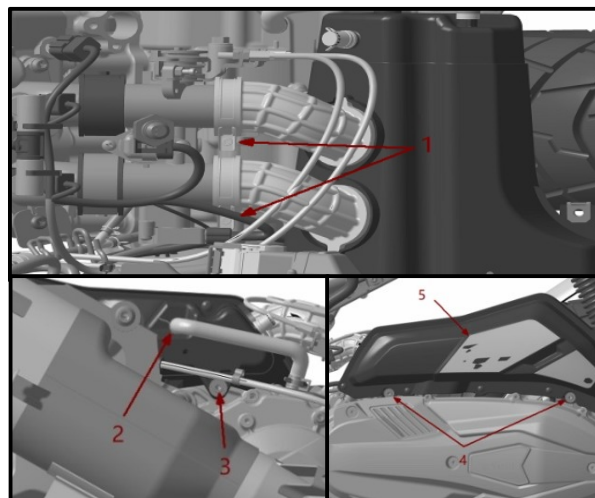
Use a hexagon socket wrench to remove the mounting bolt 1 that secures the air filter to the throttle valve body.

Remove the breather hose retaining clip 2, and pull out the breather hose.

Remove the M6 hexagon socket mounting bolt 3 on the right side of the air filter, and the hexagon socket mounting bolt 4 on the left side.

Remove the air filter assembly 5.

The re-assembly process is exactly the reverse of the disassembly procedure.



Parameters:

Air filter to throttle body mounting bolt 1	M5	Nm	2
Air filter mounting bolts 3 and 4	M6	Nm	9

Disassembly and re-assembly for throttle valve kit

Refer to the fuel tank removal procedure to remove the seat bucket.

Disconnect the fuel pipe connector 1 on the throttle body assembly.

Unplug the cylinder temperature sensor connector 3 and the idle motor connector 4.

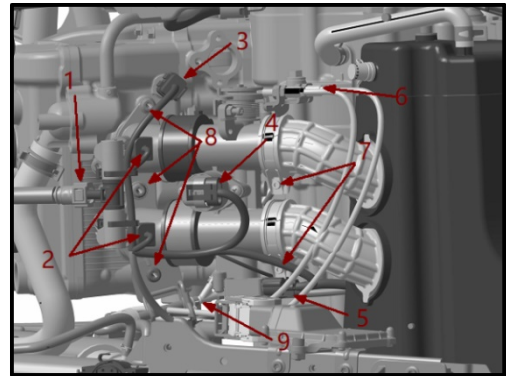
Unplug the intake air temperature sensor connector 5 and the throttle cable 6.

Use tools to remove the air filter clamp bolt 7 and the throttle mounting bolt 8.

Lift the throttle valve body assembly to a certain height, and disconnect the breather hose 9.

The throttle valve body assembly can then be removed.

The re-assembly process is exactly the reverse of the disassembly procedure.



Important:

When re-installing the throttle body assembly, repeatedly verify that the sealing components between it and the air filter housing are properly seated. If the seal is not tight, dust in the air may enter the engine and cause damage to the engine.

Before re-assembly, use a specialized cleaner to clean the intake pipe of the throttle body assembly and blow it dry to ensure engine performance.

Parameters:

Air filter clamp bolt 7	M5	Nm	2
Throttle mounting bolt 8	M6	Nm	9

Disassembly and re-assembly for oil rail

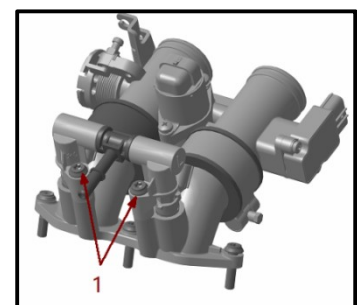
Use a tool to remove the bolt 1 that secures the fuel rail assembly to the throttle body.

Pull the fuel rail assembly firmly to remove it completely.

The re-assembly process is exactly the reverse of the disassembly procedure.

Important:

When re-installing the fuel rail assembly, check whether the O-ring seals on the injectors are damaged, deformed, or properly seated. Replace or correct them if necessary; otherwise, poor sealing may cause



abnormal combustion.

When re-installing the fuel rail and injectors, ensure that the positioning clip 2 between the injectors and the fuel rail remains in the same state as before disassembly.

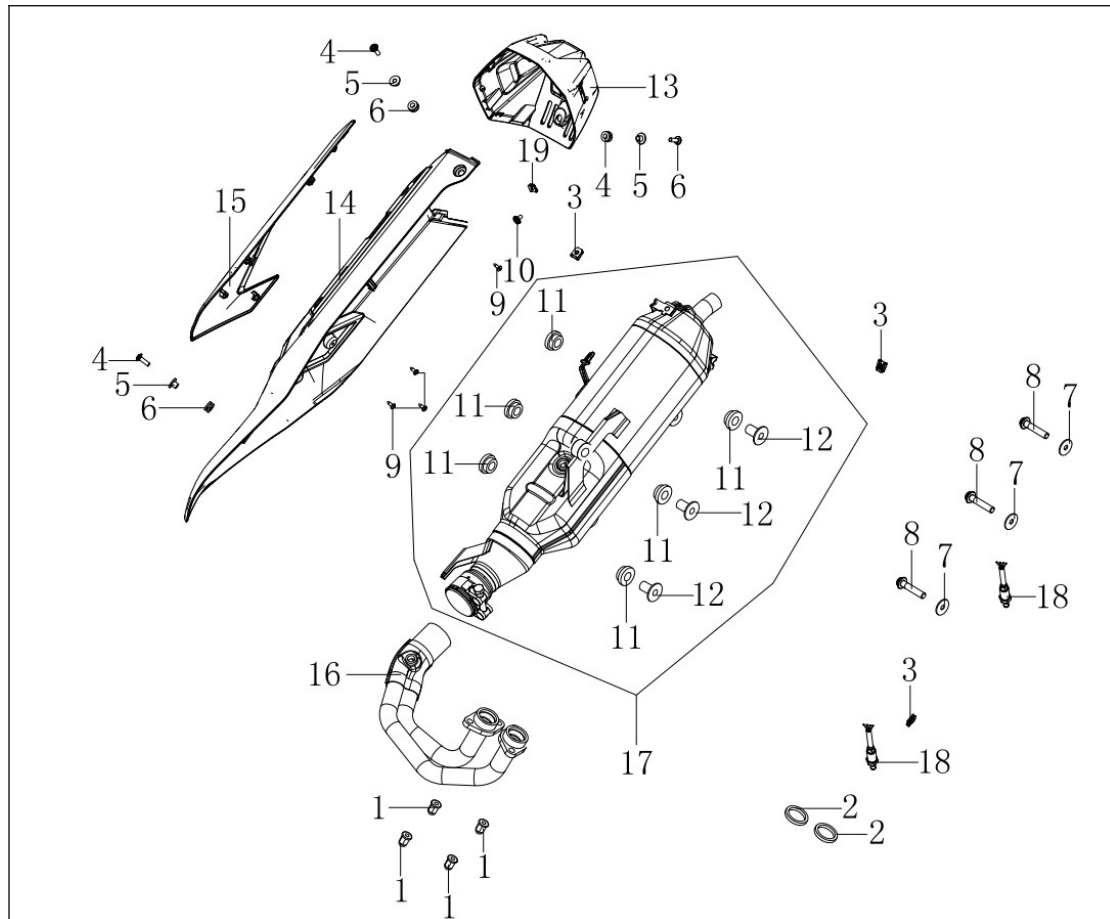
Before re-assembly, use a specialized cleaner to clean the injectors and blow them dry to ensure good engine performance.

Parameters:

Tightening torque for the fuel rail to throttle body bolts.	M6	Nm	6
---	----	----	---

4. Disassembly, re-assembly and maintenance for air exhaust kit

Air exhaust kit and its parts



1	Dome nut	PCS	4
2	Exhaust port gasket	PCS	2
3	Clip nut	PCS	3
4	I-shaped rubber gasket / I-ring seal	PCS	3
5	Bushing	PCS	3
6	Internal spline head bolt	PCS	3
7	Flat washer	PCS	3
8	Hexalobular flange bolt (Torx® flange bolt)	PCS	3
9	Cross-recessed pan head tapping screw	PCS	4
10	Internal spline head bolt	PCS	1
11	T-shaped rubber gasket	PCS	6
12	Flanged washer / Turned-edge washer	PCS	3
13	Silencer tail cap	PCS	1
14	Silencer cover / Muffler cover	PCS	1
15	Trim panel / Decorative panel	PCS	1

16	Silencer front section / Muffler front pipe	PCS	1
17	Silencer exhaust rear section / Muffler rear pipe	PCS	1
18	Oxygen sensor / O ₂ sensor	PCS	2
19	Clip nut	PCS	1

Disassembly and re-assembly for muffler kit

Keep the vehicle upright using the center stand.

Remove the silencer cover mounting bolt 1, and remove the silencer cover 2.

Remove the mounting bolt 3 securing the silencer rear section to the swingarm.

Loosen the connecting sleeve bolt 4 between the silencer rear section and the front section, remove the silencer rear section 5, and remove the rear oxygen sensor 6.

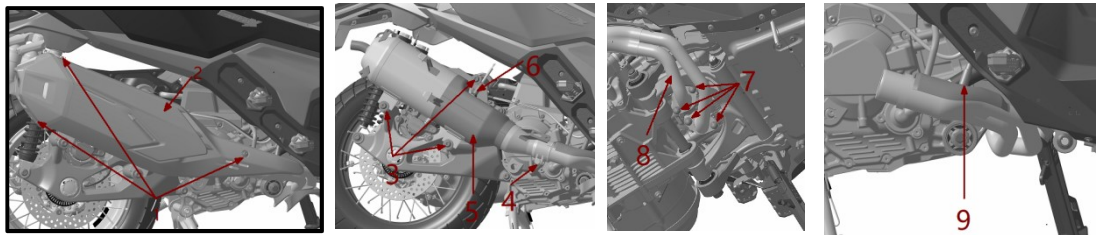
Remove the silencer front section mounting bolt 7, and loosen the silencer front section 8.

Refer to the fuel tank removal and repair procedure to remove the seat bucket.

Disconnect the connector of oxygen sensor 9, and cut the corresponding cable ties.

Use a tool to remove oxygen sensor 9 from the silencer front section 8.

The re-assembly process is exactly the reverse of the disassembly procedure.



Note:

Do not remove the graphite ring that serves as a seal at the connection between the front and rear sections of the silencer unless there is an abnormality, as removing it may cause damage to the graphite ring.

Important:

Before re-assembly, carefully check whether the graphite ring is damaged. If damaged, it will lose its sealing function and must be replaced.

When re-installing the silencer front section, the exhaust port gasket must be replaced; otherwise, the used gasket may cause poor sealing and exhaust leakage.

When re-installing the silencer front section, first tighten the nut at the exhaust port, then tighten the rear mounting bolt.

Wait for the silencer to cool down completely before disassembly to avoid burns.

The graphite ring contains steel wire; take care to avoid hand injuries when replacing it.

After re-assembly, start the vehicle and check the sealing areas for any signs of exhaust leakage.

Dispose of the replaced graphite ring and other parts in a proper and environmentally friendly manner.

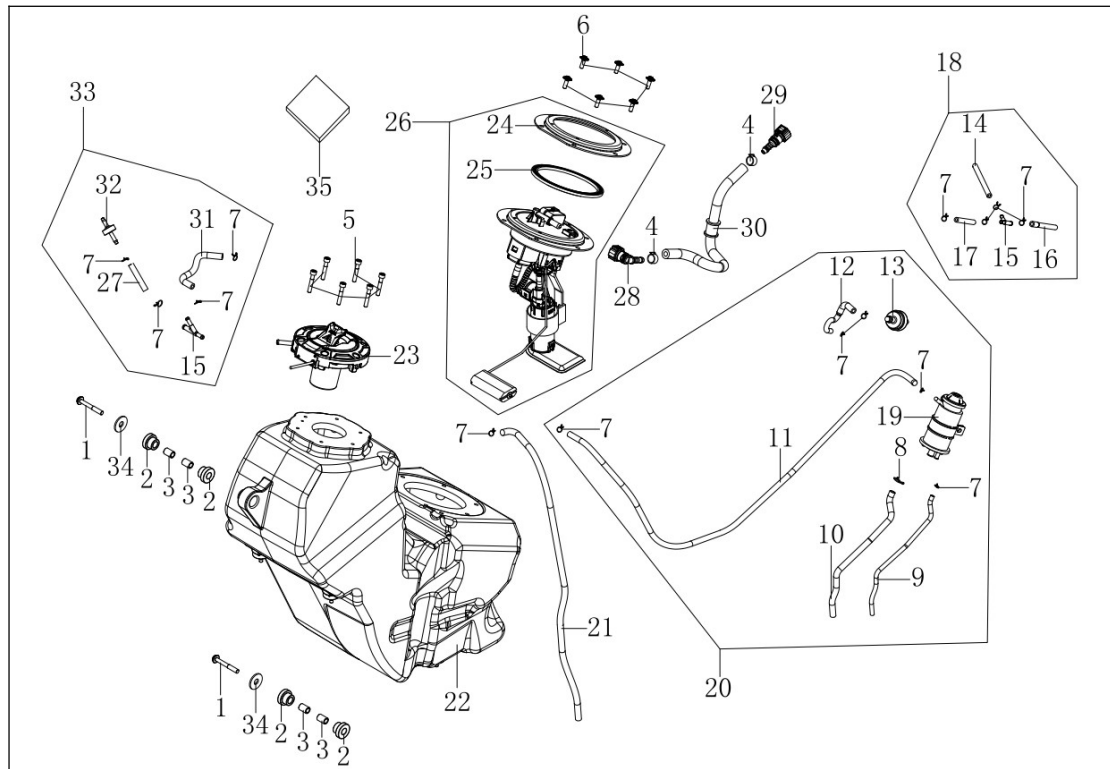
During re-assembly, ensure that the connection position between the oxygen sensor and the main wiring harness is the same as the original vehicle configuration. Incorrect connection may cause engine and vehicle malfunctions.

Parameters:

Silencer rear section connecting bolt	M8	Nm	22
Silencer connecting sleeve bolt	M10	Nm	22
Silencer front section exhaust port nut	M8	Nm	18
Oxygen sensor securing / Oxygen sensor tightening	M12	Nm	18
Silencer cover mounting bolt	M6	Nm	6

5. Disassembly, re-assembly and maintenance for fuel tank kit

Fuel tank kit and its parts



1	Hexalobular flange bolt (Torx® flange bolt)	PCS	2
2	T-shaped rubber gasket	PCS	4
3	Bushing	PCS	4
4	Hose clamp / Pipe clamp	PCS	2
5	Hexagon socket screw	PCS	6
6	Internal spline head bolt	PCS	6
7	Hose clamp / Pipe clamp	PCS	12
8	Hose clamp / Pipe clamp	PCS	1
9	Breather hose / Vent hose	PCS	1
10	Breather hose / Vent hose	PCS	1
11	Breather hose / Vent hose	PCS	1
12	Breather hose / Vent hose	PCS	1
13	Check valve / One-way valve	PCS	1
14	Breather hose / Vent hose	PCS	1
15	Three-way connector / T-joint	PCS	2
16	Breather hose / Vent hose	SET	1
17	Breather hose / Vent hose	PCS	1
18	Breather hose assembly / Vent hose assembly	PCS	1
19	Canister / Charcoal canister	PCS	1

20	Fuel evaporation control assembly / EVAP control assembly	PCS	1
21	Breather hose / Vent hose	PCS	1
22	Fuel tank	PCS	1
23	Fuel tank lock / Tank cap lock	PCS	1
24	Pressing plate / Retaining plate	PCS	1
25	Electronic fuel pump bracket sealing gasket	PCS	1
26	Electronic fuel pump	PCS	1
27	Breather hose / Vent hose	PCS	1
28	Quick-connect fitting / Quick coupler	PCS	1
29	Quick-connect fitting / Quick coupler	PCS	1
30	Fuel hose / Fuel pipe	PCS	1
31	Breather hose / Vent hose	PCS	1
32	Check valve / One-way valve	PCS	1
33	Breather hose assembly / Vent hose assembly	PCS	1
34	Flat washer	PCS	2
35	Foam pad / Foam block	PCS	1

Disassembly for fuel tank kit

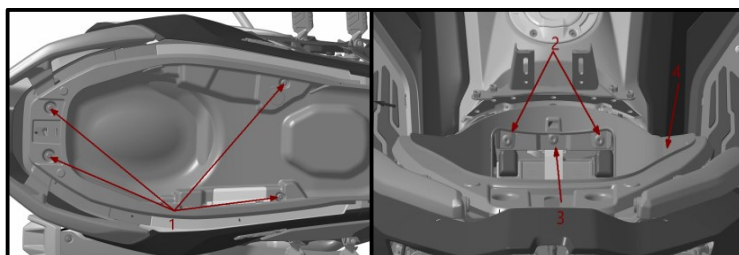
Keep the vehicle upright using the center stand.

Press the seat opening button on the right handlebar switch housing or use the mechanical key to open the seat.

Remove the seat bucket mounting bolt 1.

Remove the front seat bucket mounting bolt 2, and the seat cushion mounting bolt 3.

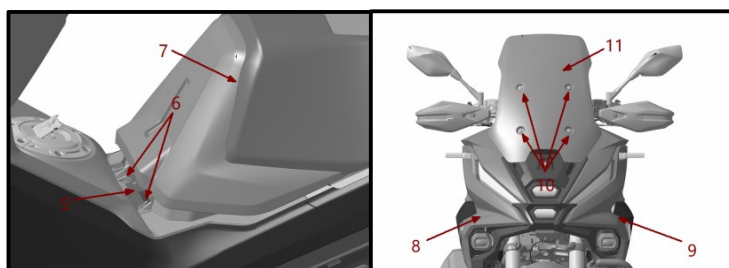
Remove the seat bucket 4, and disconnect the built-in 12V cigarette lighter connector on the seat bucket.



Open the front trim panel 5 of the seat cushion,

and remove the seat cushion mounting screw 6.

Remove the seat cushion 7, and disconnect the seat cushion heating and lighting lamp connectors.



Remove the right fairing 8, and disconnect the right turn signal connector.

Remove the left fairing 9, and disconnect the left turn signal connector.

Remove the windshield mounting bolts 10, and remove the windshield 11.

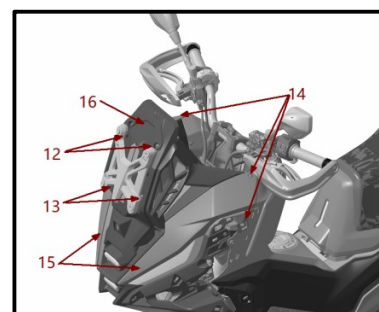
Remove the windshield lifter mounting bolts 12.

Raise the windshield lifter, and remove the bottom mounting bolts 13.

Remove the left and right front panel mounting bolts 14 (one on each side).

Remove the left and right front panels 15, and disconnect the camera connector underneath the left front panel.

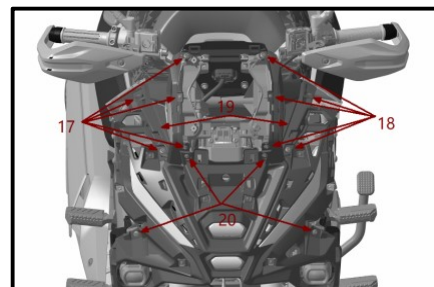
Remove the windshield lifter 16, and disconnect the motor control connector.



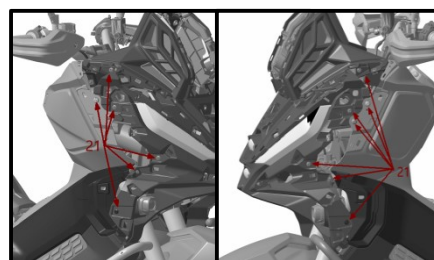
Remove the left and right windshield trim cover mounting bolts 17 and 18.

Remove the left and right windshield trim covers 19.

Remove the front cowl front mounting bolts 20.

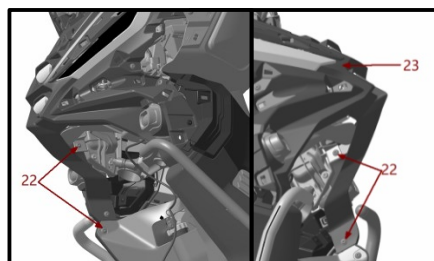


Remove the front cowl left and right side mounting bolts 21.



Remove the front cowl bottom left and right mounting bolts 22.

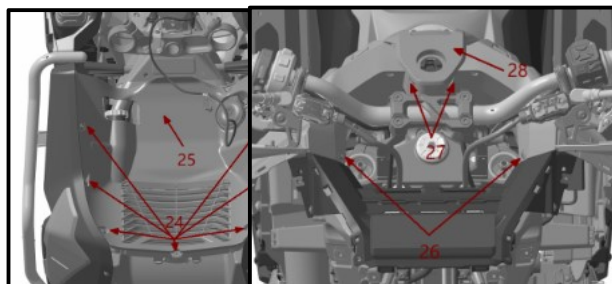
Remove the front cowl 23, and disconnect the front position lamp and headlight connectors.



Remove the radiator cover mounting bolts 24, and remove the radiator cover 25.

Remove the instrument panel to front cowl left and right mounting bolts 26.

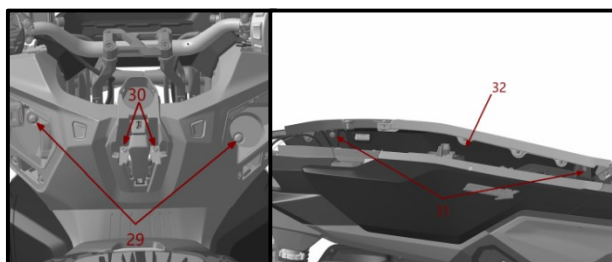
Remove the ignition lock cover left and right mounting screws 27, and remove the ignition lock cover 28.



Electrically open the left and right glove boxes, and remove the left and right front cowl mounting bolts 29.

Remove the front storage hook mounting bolt 30.

Remove the left tail cover mounting bolt 31, remove the left tail cover 32, and disconnect the passenger seat heating connector and the seat release cable.



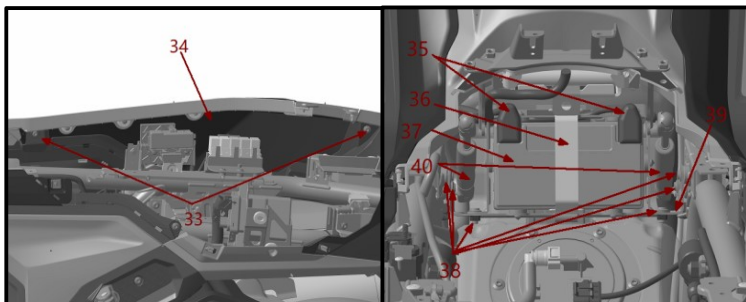
Remove the right tail cover mounting bolt 33, and remove the right tail cover 34.

Remove the battery positive and negative terminal bolts 35, and remove the retaining strap 36.

Remove the battery 37.

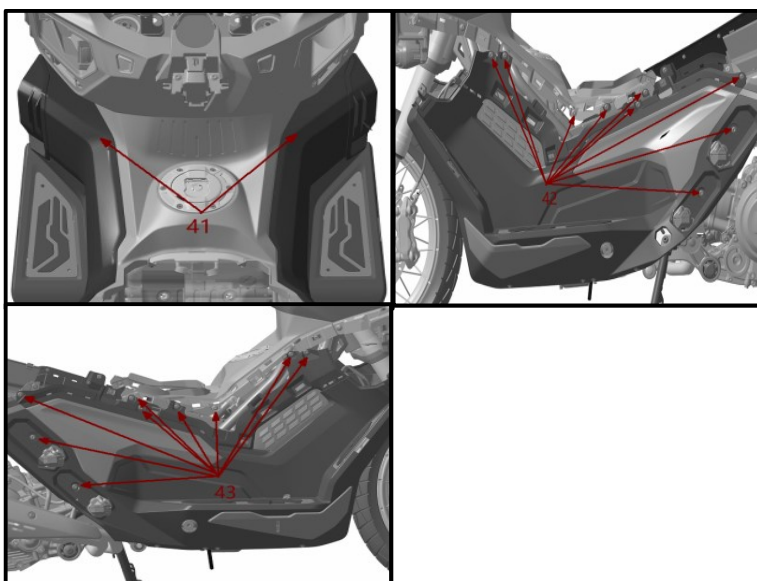
Remove the battery mounting bracket bolts 38, and remove the battery mounting bracket 39.

Remove the left and right gas struts 40.



Remove the left and right fuel tank covers 41.

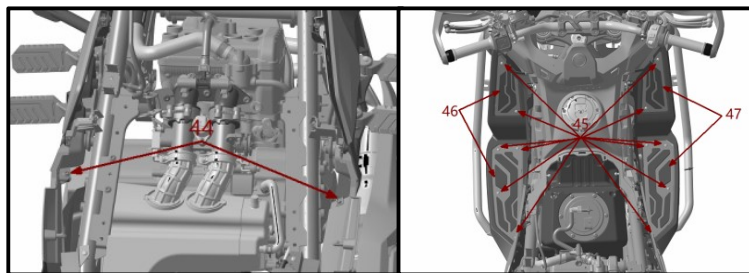
Remove the left and right footrest main body mounting bolts 42 and 43.



Remove the left and right footrest main body to tail cover mounting bolts 44.

Remove the left and right footrest trim panel mounting bolts 45.

Remove the left and right footrest trim panels 46 and 47.



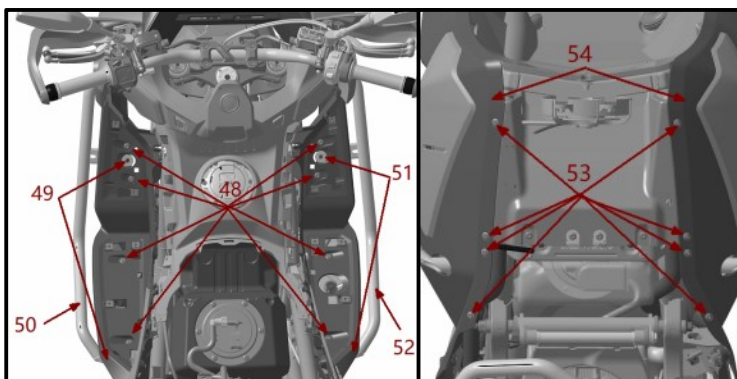
Remove the left and right footrest main body to frame mounting bolts 48.

Remove the left bumper mounting bolt 49, and remove the left bumper 50.

Remove the right bumper mounting bolt 51, and remove the right bumper 52.

Remove the footrest main body to floor panel mounting bolts 53.

Remove the left and right footrest main bodies 54.



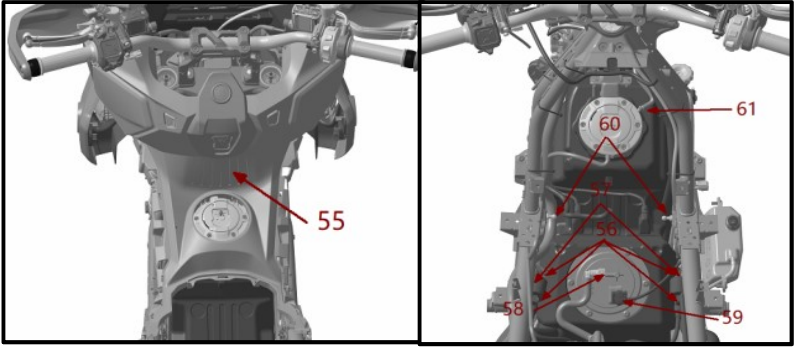
Remove the fuel tank front cowl component 55.

Remove the left and right ignition coil mounting bolts 56, and remove the left and right ignition coils 57.

Disconnect the fuel pipe 58 and the fuel pump connector 59.

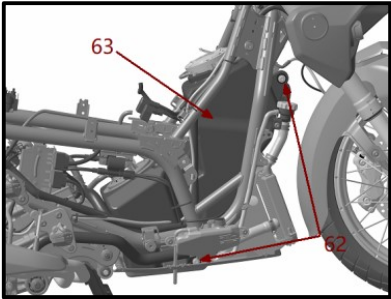
Remove the gas strut bracket mounting bolts 60, and remove the gas strut bracket.

Disconnect the breather hose 61 and the fuel tank lock connector.



Remove the fuel tank mounting bolts 62, and remove the fuel tank assembly 63.

The re-assembly process is exactly the reverse of the disassembly procedure.



Note:

Since there are many plug-in components at the lower part of the fuel tank, pay close attention during re-assembly to ensure that all parts are properly installed in place, and avoid excessive bending or compression of the lines and hoses.

Important:

During re-assembly, do not mix up the overflow rubber hose and the fuel vapor rubber hose at the top of the fuel tank; otherwise, damage may be caused to the fuel vapor system.

Parameters:

Exterior trim mounting bolts	M5	N.m	4.5
Exterior trim mounting bolts	M6	N.m	6
Windshield mounting bolts	M5	N.m	4.5
Fuel tank mounting bolts	M6	N.m	6

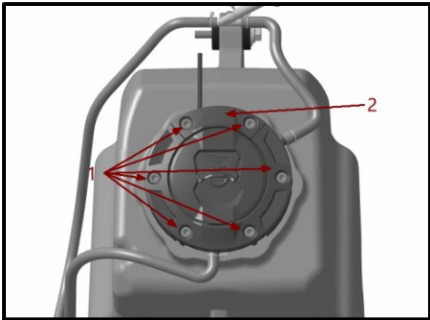
Removal for fuel tank lock

First, remove the fuel tank lock mounting bolt 1, then the fuel tank lock 2 can be taken off.

The re-assembly procedure is the exact reverse of the removal procedure.

CAUTION:

After re-installing the fuel tank lock, repeatedly verify that it can be opened properly. The fuel tank



lock incorporates an integrated rollover valve function; take care to protect the fuel tank lock from impacts.

Parameters:

Fuel tank lock retaining bolt	M5	N.m	4.5
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Removal for fuel pump

First, drain the remaining fuel from the fuel tank.

Remove the fuel pump mounting bolt (1).

Remove the fuel pump mounting bracket clamp plate (2), then take out the fuel pump (3).

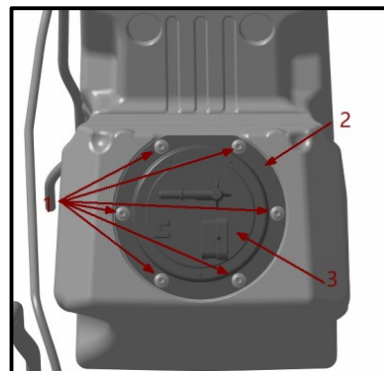
The re-assembly procedure is the exact reverse of the removal procedure.

CAUTION:

When removing the fuel pump, pay attention to the cleanliness of the fuel pump strainer. If necessary, it should be cleaned. Cleaning must be performed in clean fuel, repeatedly flushing the strainer.

IMPORTANT:

When re-installing the fuel pump, the fuel pump sealing gasket must be replaced; otherwise, there is a risk of fuel leakage.



After re-installing the fuel pump, it is necessary to check that the seal is proper, using professional pressure measuring equipment.

Dispose of the replaced fuel pump sealing gasket in a proper and environmentally friendly manner.

Parameters:

Fuel pump bolt tightening torque	M5	N.m	6
Fuel tank static pressure specification		kp	130

Removal for fuel level sensor

First, drain the remaining fuel from the fuel tank.

Remove the fuel level sensor retaining clip.

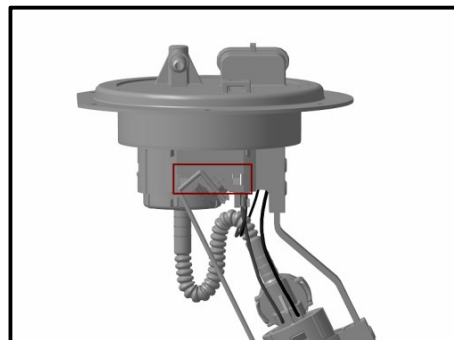
Remove the fuel level sensor.

The re-assembly procedure is the exact reverse of the removal procedure.

IMPORTANT:

When re-installing the fuel level sensor, the fuel level sensor sealing gasket must be replaced; otherwise, there is a risk of fuel leakage.

After re-installing the fuel pump, it is necessary to check that the seal is proper, using professional pressure measuring equipment.



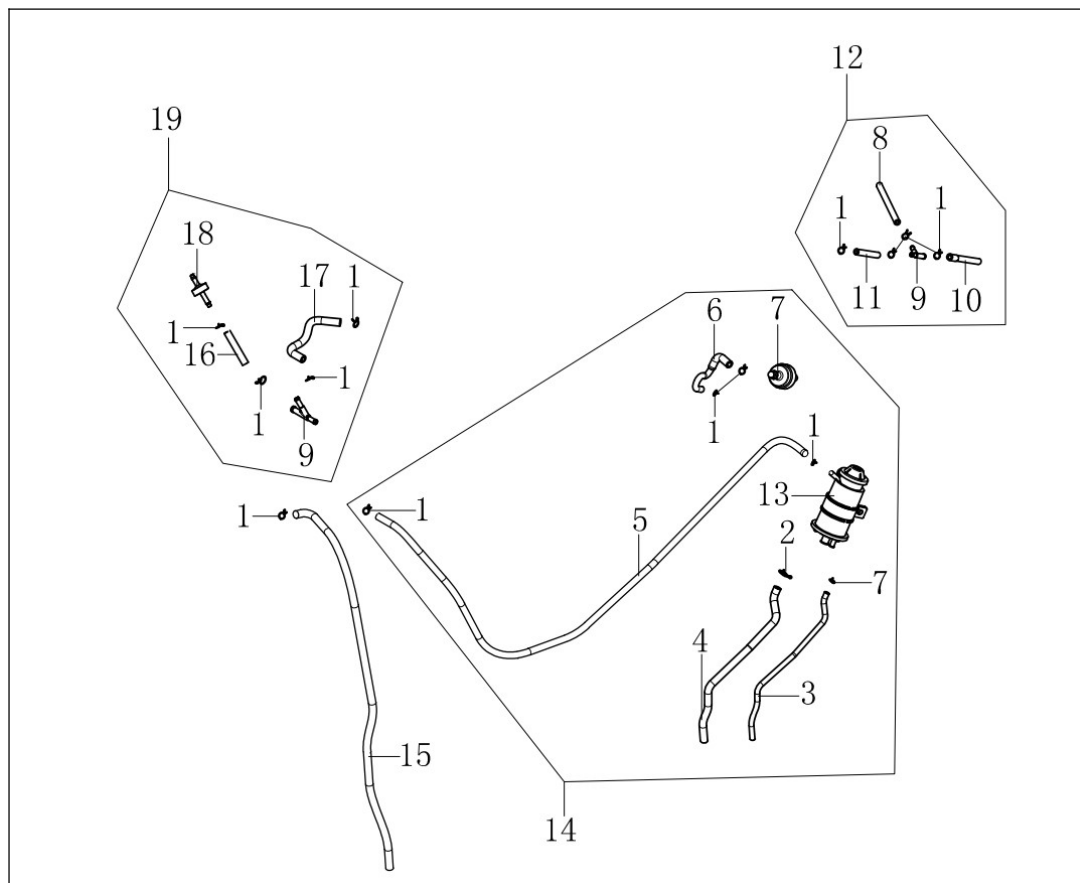
Dispose of the replaced fuel level sensor sealing gasket in a proper and environmentally friendly manner.

Parameters:

Fuel tank static pressure value	kp	130
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6. Disassembly, re-assembly and maintenance for fuel evaporation controller kit

Fuel evaporation controller kit and its parts



1	Tube clamp	PCS	12
2	Tube clamp	PCS	1
3	Breather tube	PCS	1
4	Breather tube	PCS	1
5	Breather tube	PCS	1
6	Breather tube	PCS	1
7	One-way valve	PCS	1
8	Breather tube	PCS	1
9	Three-way connector	PCS	2
10	Breather tube	SET	1
11	Breather tube	PCS	1
12	Breather tube assembly	PCS	1

13	Charcoal canister	PCS	1
14	Fuel vapor control assembly	PCS	1
15	Breather tube	PCS	1
16	Breather tube	PCS	1
17	Breather tube	PCS	1
18	One-way valve	PCS	1
19	Breather tube assembly	PCS	1

Removal for fuel evaporation controller kit

Refer to the fuel tank assembly removal procedure to remove the surrounding trim panels.

Remove the clamp (1) at the connection between the fuel tank lock and the breather tube, then remove the breather tube assembly (2).

Remove the clamp (2) connecting the breather tube to the throttle body, then disconnect the breather tube.

Remove the charcoal canister bracket mounting bolt (4), then remove the fuel vapor control assembly (5).

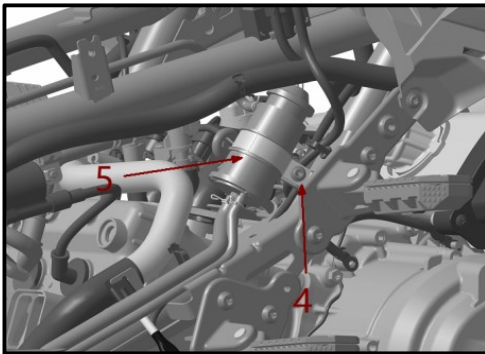
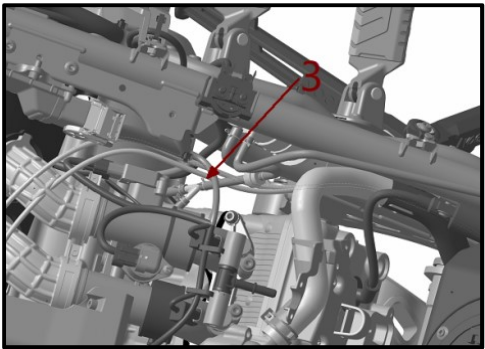
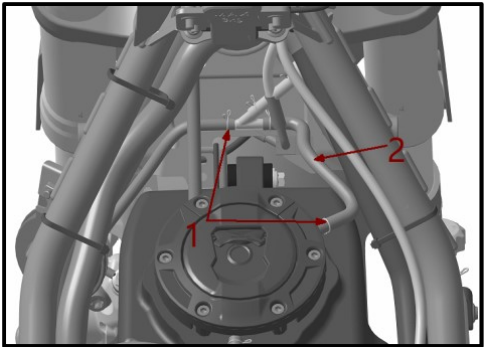
The re-assembly procedure is the exact reverse of the removal procedure.

NOTE:

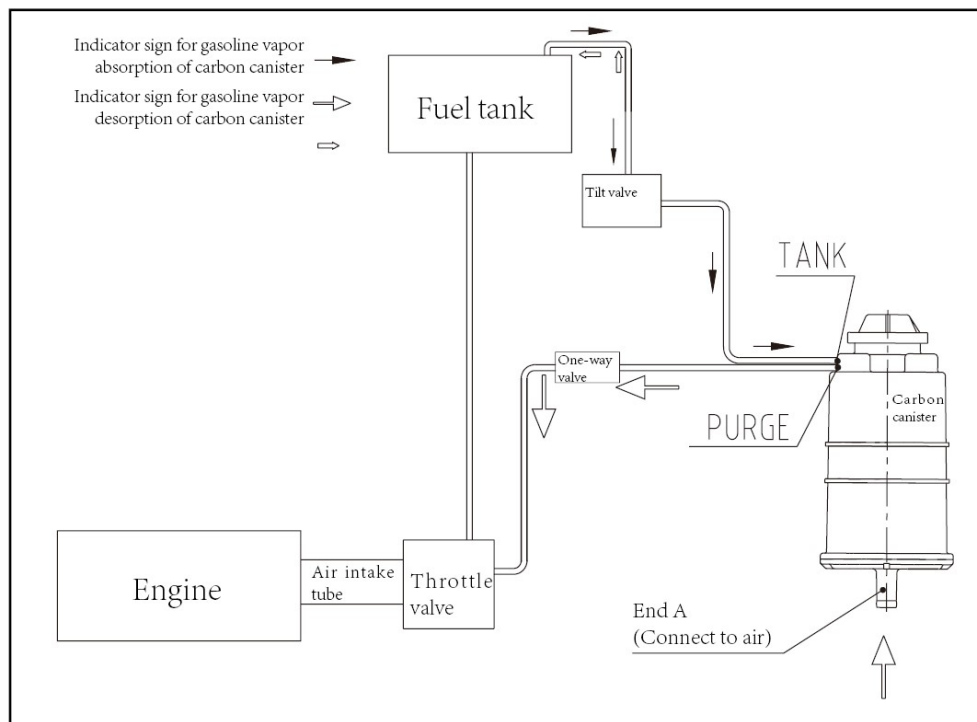
Due to the limited installation space for the fuel vapor control assembly and the large number of hoses/lines associated with it, be sure to record the hose routing and layout before disassembly to ensure correct re-assembly.

Parameters:

Charcoal canister bracket mounting bolt	M6	Nm	9
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Connection figure for fuel evaporation controller

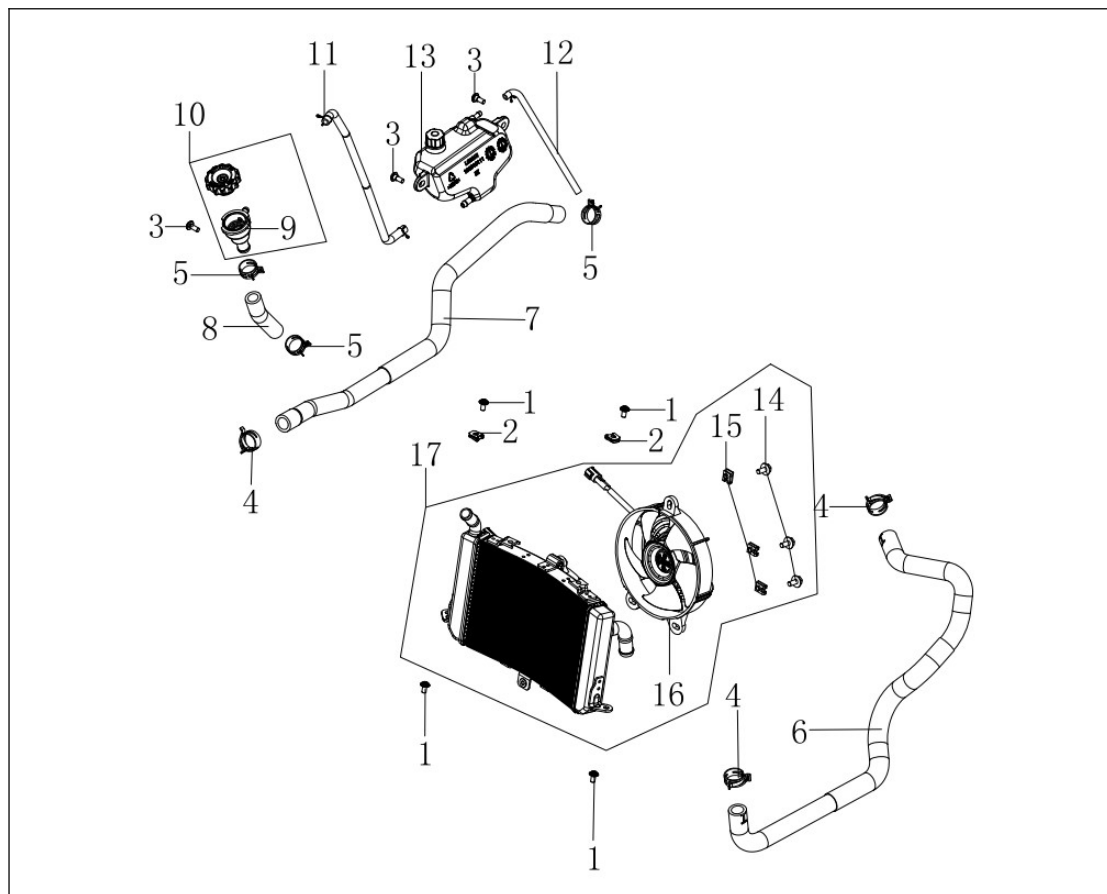


Fuel Evaporative Control System Operating Principle:

- (1) When the fuel in the tank is heated, gasoline vapor evaporates and passes through the rollover valve to the TANK port of the charcoal canister, where it is adsorbed.
- (2) When the vehicle tilts beyond 60°, the rollover valve closes, preventing gasoline from flowing through the rollover valve to the charcoal canister.
- (3) Fresh air flows from the atmospheric port of the charcoal canister to the PURGE port, carrying fuel vapor into the throttle body, and ultimately to the engine for combustion.
- (4) As the fuel level in the tank drops (creating negative pressure inside the tank), air is drawn into the tank through the one-way valve to maintain the fuel surface at atmospheric pressure.

7. Disassembly, re-assembly and maintenance for heat radiation kit

Heat radiation kit and its parts



1	Internal Torx head bolt	SET	7
2	Clip nut	EA	2
3	Internal Torx head bolt	EA	3
4	Tube clamp	EA	3
5	Tube clamp	EA	3
6	Water hose	EA	1
7	Water hose	EA	1
8	Water hose	EA	1
9	Filler neck	EA	1
10	Filler cap	EA	1
11	Water hose	EA	1
12	Water hose	EA	1
13	Coolant tank / Radiator tank	EA	1
14	Combination bolt	EA	3
15	Clip nut	EA	3
16	Fan assembly	EA	1

17	Radiator assembly	EA	1
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Inspection for coolant

Place the vehicle upright using a parking stand.

Observe the coolant tank below the right footrest. The coolant level should be between the upper and lower scale lines. If it is below the lower mark, add coolant as needed; however, the coolant level must not exceed the upper mark.

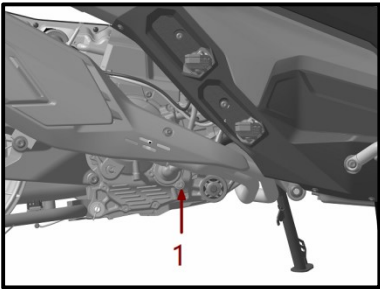
Replacement for coolant

Place the vehicle upright using a parking stand.

Remove the filler cap on the right side of the radiator.

Position a drain pan under the coolant drain bolt (1) on the right side of the engine.

Using a suitable tool, remove the drain bolt (1) and drain the coolant from the engine water jacket until completely empty.



IMPORTANT:

Use a suitable container to collect the drained coolant and dispose of it in an environmentally responsible manner.

A new drain bolt sealing gasket must be used upon installation.

Be sure to clean the sealing surface on the engine where the drain bolt gasket seats, ensuring no debris or contaminants remain attached.

After the drain bolt is installed, wipe off any residual coolant from engine components and other parts with a cloth.

After the replacement is complete, start the engine and briefly raise the RPM to observe whether any leakage occurs in the cooling system.

Parameters:

Coolant drain bolt	M6	N.m	11
Coolant capacity		L	1.3
Coolant type / Coolant specification	Ethanol-containing , silicate-free coolant		G40

Coolant filling-up

Using a funnel or similar tool, pour coolant into the radiator filler neck until the coolant reaches the top of the filler neck.

Start the engine and let it idle. Observe the radiator filler neck; the coolant level will drop. Continue adding coolant until the level no longer decreases.

Install the filler cap.

Using a funnel or similar tool, add coolant to the coolant tank filler neck and check that the level is between the upper and lower marks.

Install the rubber cap on the coolant tank.

Coolant filling is now complete.

IMPORTANT:

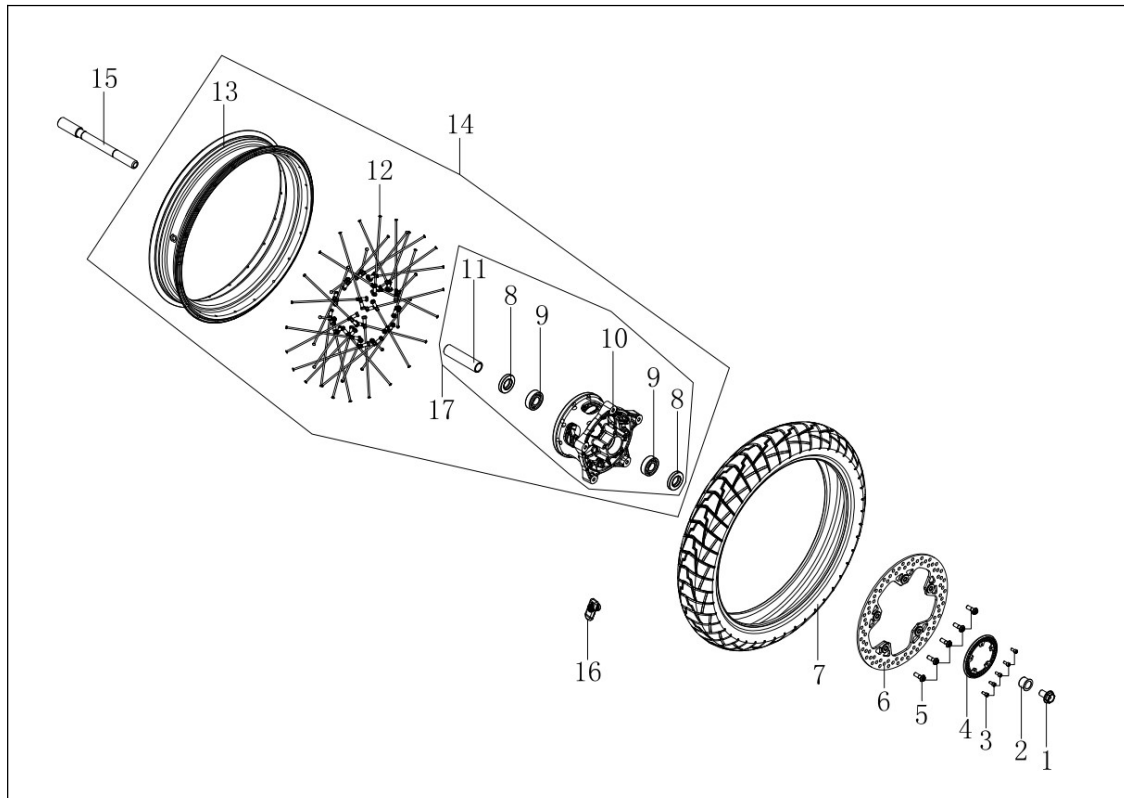
After the replacement is complete, start the engine and briefly raise the RPM to observe whether any leakage occurs in the cooling system.

NOTE:

After the above procedures are completed, use a cleaning agent to remove oil stains from the engine surface, then blow dry with compressed air.

8. Disassembly, re-assembly and maintenance for front wheel

Front wheel kit and its parts



1	Hexagon flange head bolt	PCS	1
2	Bushing	PCS	1
3	Internal Torx head bolt	PCS	5
4	ABS tone ring	PCS	1
5	Disc brake disc retaining bolt	PCS	5
6	Front disc brake disc	PCS	1
7	Tire	PCS	1
8	Oil seal	PCS	2
9	Bearing	PCS	2
10	Front wheel hub	PCS	1
11	Bushing	PCS	1
12	Spoke nut assembly	PCS	40
13	Front wheel rim	PCS	1
14	Front wheel	PCS	1
15	Axle / Shaft	PCS	1
16	Tire pressure sensor / Tyre pressure sensor	PCS	1
17	Front wheel hub	PCS	1

Removal for front wheel

Place the vehicle upright using a parking stand.

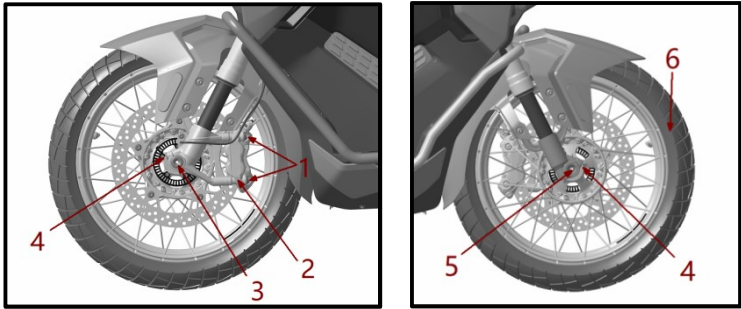
Remove the front disc brake caliper mounting bolt (1), then remove the front disc brake caliper (2).

Loosen the front wheel axle nut (3).

Loosen the fork pinch bolts (4), then remove the front wheel axle (5).

Remove the front wheel assembly (6).

The re-assembly procedure is the exact reverse of the removal procedure.



NOTE:

Do not operate the front brake lever when removing the front brake caliper, to prevent the caliper pistons from moving, which would make caliper reinstallation difficult.

After re-installing the caliper, restore the brake hose routing and securing to its original state prior to disassembly.

IMPORTANT:

During assembly, ensure that the brake friction pads and the working surfaces of the brake disc are free from any contamination.

After the replacement is complete, repeatedly squeeze and release the front brake lever several times to confirm that there are no abnormalities.

After re-installing the tire, the front wheel should be rechecked for dynamic balance on the balancing equipment.

When re-installing the front wheel bushing or oil seal, apply lithium-based grease.

Parameters:

Front wheel	/	Aluminum spoke wheel rim	
Front tire	/	Radial tubeless tire	110/70-17
Front wheel end face runout not to exceed	/	mm	2
Front wheel radial runout not to exceed	/	mm	2
Front shock absorber upper wheel axle pinch bolt	M8	Nm	20
Front wheel axle tightening torque	M14	Nm	60
Front disc brake caliper tightening torque	M10	Nm	40
Brake disc tightening torque	M8	Nm	32
Threadlocker	Loctite	ml	10

	262		
Grease	/	g	10
Maximum permissible imbalance for front wheel assembly	/	g	5
Tire pressure		KPa	220

Removal for brake plate

Removal

After removing the front wheel assembly, place the front wheel on the workbench.

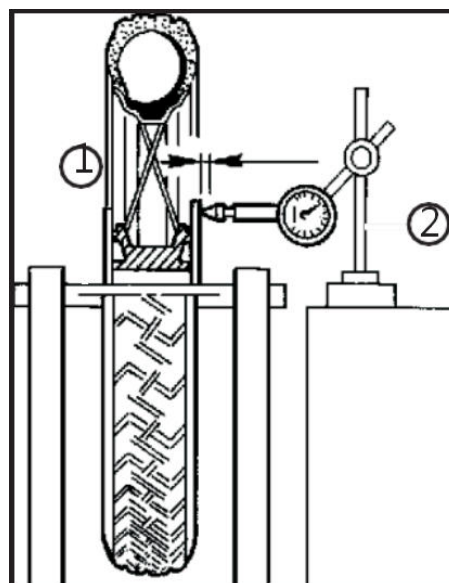
Remove the disc brake mounting bolts, and then take off the front brake disc.

Reinstallation

The reinstallation procedure is exactly the reverse of the removal procedure.

NOTE:

The front brake disc screws are pre-coated with thread-locking compound. Use the correct tools when removing them; otherwise, they may be difficult to loosen.



IMPORTANT:

During assembly, ensure that the brake pad friction surfaces and the brake disc working surfaces are free from any contamination.

When re-installing the brake disc, apply thread-locking compound to the brake disc mounting bolts.

After the brake disc is reinstalled, recheck the disc's end face runout (lateral runout) as follows:

Place the front wheel on a balancing stand using the balance shaft ①.

Measure the brake disc end face runout with a dial gauge (or measuring instrument) ②.

Run-out of end surface is not higher than	mm	0.3
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Removal for front tire

After removing the front wheel assembly, place the front wheel on the workbench.

Use a tool to push inward on the TPMS (Tire Pressure Monitoring System) valve core to deflate the tire.

Use the specified special tool to remove the front tire.

Remove the TPMS sensor.

Reinstallation

The reinstallation procedure is exactly the reverse of the removal procedure.

NOTE:

When re-installing the tire, use the designated special equipment for mounting. Forcible assembly by external force may cause permanent damage to the tire.

IMPORTANT:

During tire re-assembly, ensure that the tire's light spot (minimum weight point) is aligned with the valve stem position on the wheel rim. This will facilitate subsequent dynamic balancing (wheel balancing) operations.

Removal for front wheel bearing and oil seal

After removing the front wheel assembly, place the front wheel on the workbench. Remove the brake disc and tire. Using special tools such as snap ring pliers, remove the front wheel oil seal, snap ring (circlip), bearing, and flat washer in sequence. Replace the bearing and oil seal with new ones of the same specification.

Reinstallation

The reinstallation procedure is exactly the reverse of the removal procedure.

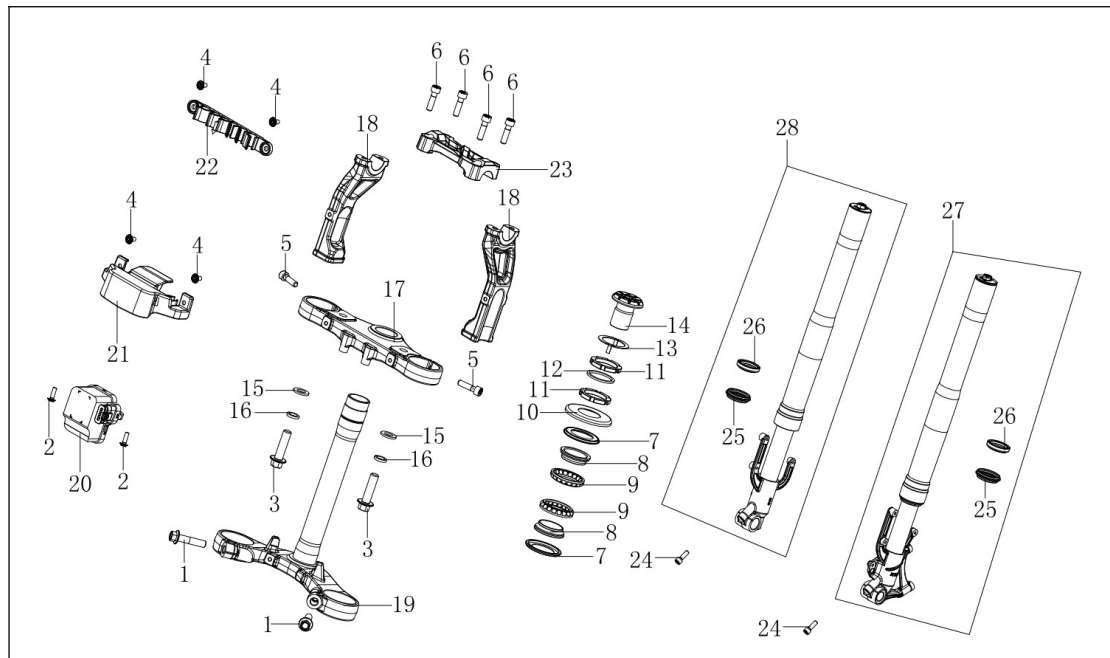
IMPORTANT:

The front wheel oil seal will be damaged upon removal and must be replaced. Failure to replace it will result in inadequate water sealing performance, which will accelerate bearing wear. A dedicated puller (bearing extractor) must be used to remove the front wheel bearing. To facilitate installation, heat the bearing bore area of the front wheel to 100°C before pressing in the new bearing.

Please note on the side equipped with the ABS tone ring (sensor ring), there is a snap ring (circlip) installed between the oil seal and the bearing. Do not forget to install it during re-assembly.

9. Disassembly, re-assembly and maintenance for front fork

Front fork kit and its parts



1	Hexagon flange bolt	EA	2
2	Internal spline head bolt	EA	2
3	Hexagon flange bolt	EA	2
4	Internal spline head bolt	EA	4
5	Internal spline head bolt	EA	2
6	Internal spline head bolt	EA	4
7	Oil seal	EA	2
8	Bearing retaining ring	EA	2
9	Steel ball assembly	EA	2
10	Steering stem dust cover	EA	1
11	Steering stem lock nut	EA	2
12	Rubber flat washer	EA	1
13	Locking washer	EA	1
14	Steering stem locking bolt	EA	1
15	Flat washer	EA	2
16	Spring washer	EA	2
17	Upper triple clamp	EA	1
18	Handlebar clamp	EA	2
19	Steering stem	EA	1
20	Steering lock	EA	1
21	Ignition switch cover	EA	1
22	Wire harness clamp	EA	1

23	Handlebar clamp	EA	1
24	Internal spline head bolt	EA	2
25	Front fork dust seal boot	EA	2
26	Oil seal	EA	2
27	Front fork	EA	1
28	Front fork (2)	EA	1

Disassembly and re-assembly for steering stem

Keep the vehicle upright using the service stand.

Refer to the handlebar assembly removal procedure and remove the handlebar assembly.

Refer to the front wheel assembly removal procedure and remove the front wheel assembly.

Refer to the fuel tank assembly removal procedure and remove the front fairing cover.

Remove the front fork upper mounting bolt 1.

Remove the left and right handlebar clamp mounting bolts 2, then remove the left and right handlebar clamps 3.

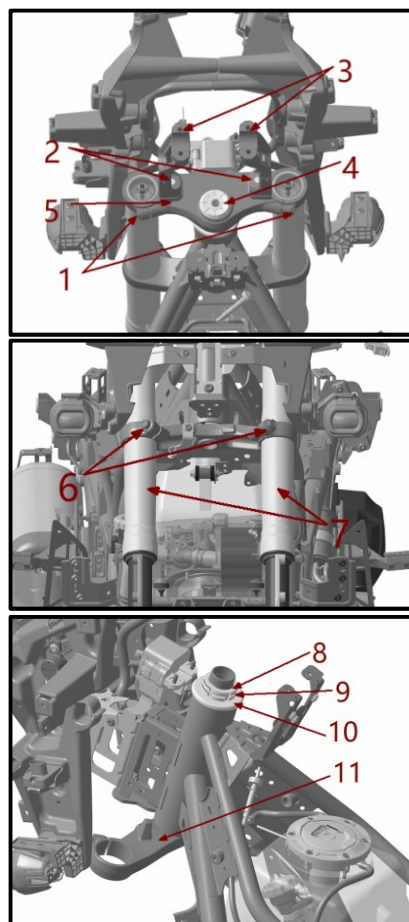
Remove the steering stem lock nut 4, then remove the upper triple clamp 5.

Remove the front fork lower mounting bolts 6, then remove the left and right front forks 7.

Remove the locking washer 8, then remove the steering stem lock nut 9.

Remove the steering stem dust cover 10, then remove the steering stem 11.

Re-assembly is in the reverse order of disassembly.



Note:

During re-assembly, securely bundle the main wiring harness to maintain the same condition as before removal, otherwise waterproofing may be compromised.

When re-installing the front fender, route the brake hose and ABS sensor harness to the same condition as before removal, otherwise the brake hose may interfere with the front fender and cause noise during riding.

When re-installing the front forks, pre-install the front axle first, then tighten the fork clamp bolts on the upper triple clamp and the steering stem.

Important:

When re-installing the steering bearings, apply lithium grease to ensure proper lubrication.

During re-assembly, check that the clearance between the ABS sensor probe and the front wheel

tone ring is correct.

The two adjusting and lock nuts on the steering stem must be assembled strictly according to specifications (refer to the parameter table), otherwise steering performance will be affected.

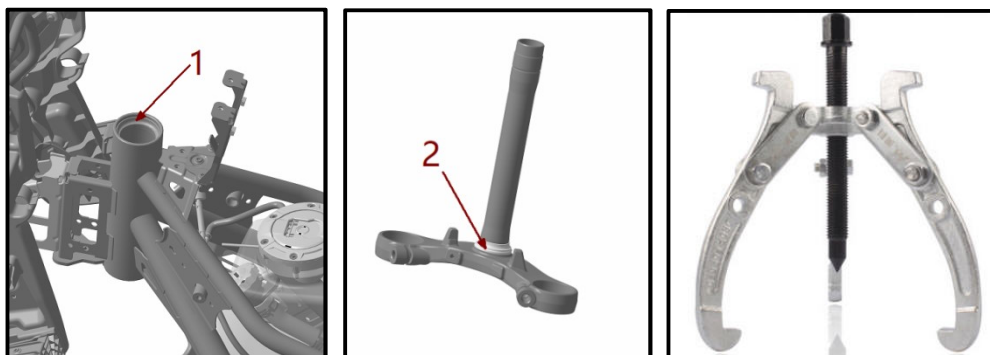
Parameters:

Steering stem locking bolt torque	M28	N.m	120
Front fork to upper triple clamp locking bolt torque	M8	N.m	22
Front fork to steering stem locking bolt torque	M10	N.m	40
Steering stem lock nut (lower) torque	M35	N.m	First one: 50 N·m first, then loosen 81°~99°, then retighten to 35 N·m. Second one: 2 N·m, align the slot.
Steering stem lock nut (upper) torque	M6	N.m	6
Exterior trim mounting bolt torque	/	mm	0.5-1.5

Disassembly and re-assembly for steering stem

Remove the bearing race 1 from the frame head tube using the special tool.

Remove the bearing retaining ring 2 from the steering stem using the special puller tool (as shown).



Replace with new steering bearings of the same specification.

Remove the oil seal under the bearing.

Re-assembly is in the reverse order of disassembly.

Note:

When removing the steering stem bearings, do not use unconventional methods. Use the special tools, otherwise permanent damage to the steering stem will occur.

When re-installing the steering stem bearings, observe the correct installation sequence of bearings, oil seals, and flat washers.

Important:

When pressing in the steering bearings, the bearings may be heated to 100°C prior to installation to facilitate pressing.

Steering bearing free play inspection

During low-speed riding, repeatedly and quickly operate the front brake lever to feel for any looseness in the steering bearings.

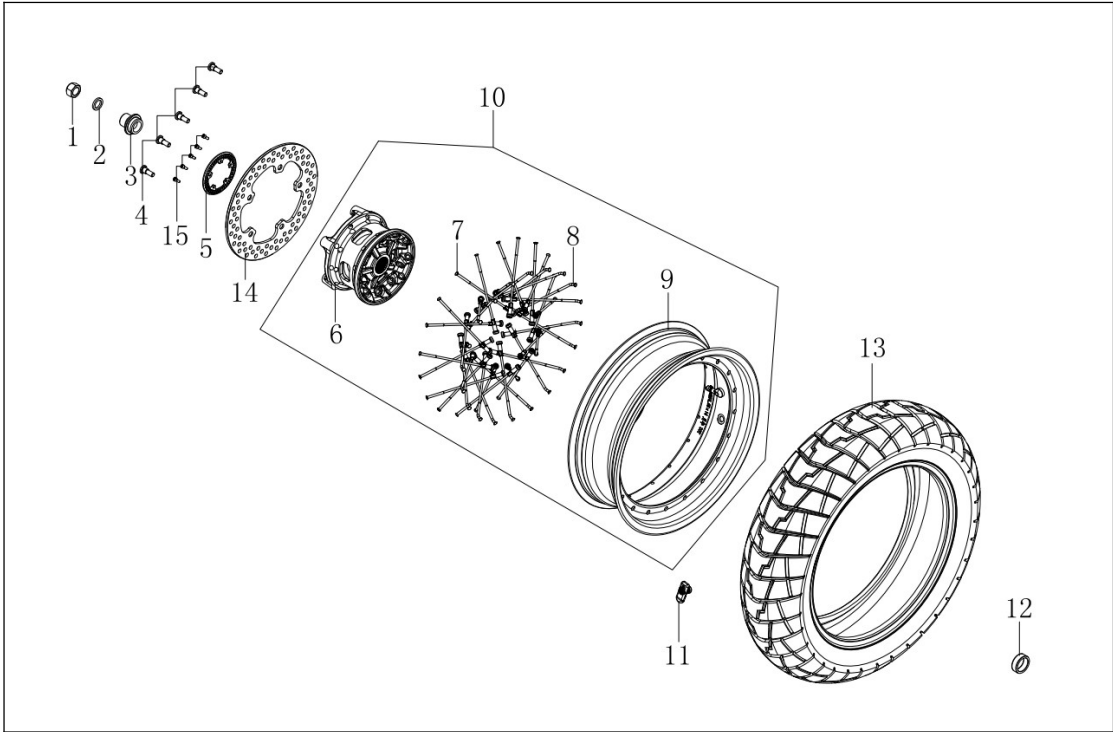
Keep the vehicle upright using the service stand.

As shown, repeatedly pull the front wheel in the indicated directions to feel for any looseness in the steering bearings.



10. Disassembly, re-assembly and maintenance for rear wheel kit

Rear wheel kit and its parts



1	Full metal hexagon locknuts	PCS	1
2	Bushings	PCS	1
3	Bushings	PCS	1
4	Hexalobular socket flange head bolts	PCS	5
5	ABS tone rings	PCS	1
6	Rear hubs	PCS	1
7	Spoke nut assemblies	PCS	20
8	Spoke nut assemblies	PCS	20
9	Rear wheel rims	PCS	1
10	Rear wheels	PCS	1
11	Tire pressure sensors	PCS	1
12	Bushings	PCS	1

13	Tires	PCS	1
14	Rear disc brake rotors	PCS	1
15	Internal spline head bolts	PCS	5

Removal for rear wheel

Keep the entire vehicle upright using the parking stand.

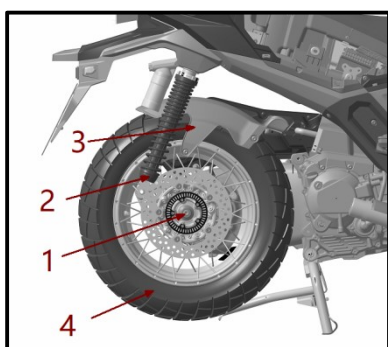
Refer to the muffler removal procedure and remove the rear section of the muffler.

Refer to the swingarm removal procedure and remove the swingarm.

Remove bushing 1, and pull the right rear shock absorber 2 and the rear fender 3 apart by a certain distance.

Remove the rear wheel assembly 4.

The re-assembly process is the exact reverse of the removal procedure.



Notes:

Do not apply the rear brake when removing the rear brake caliper, to avoid piston movement that may cause difficulty in caliper re-assembly.

Important:

During assembly, ensure that the brake pad friction surfaces and the brake disc working surfaces are free of contaminants.

After replacement, repeatedly depress the rear brake pedal multiple times to confirm there are no abnormalities.

After remounting the tire, the rear wheel should be rechecked for dynamic balance on the balancing equipment.

When re-installing the rear wheel bushings or oil seals, apply lithium-based grease.

Parameters:

Rear wheel	/	Spoked aluminum rim	4.25x14
Rear tire	/	Radial tubeless tire	150/70 14
Rear wheel end face runout not greater than	/	mm	1
Rear wheel radial runout not greater than	/	mm	1
Rear axle tightening torque	M16	N.m	120
Brake disc tightening torque	M8	N.m	32
Threadlocker	Loctite	ml	10

	262		
Grease	/	g	5
Maximum allowable unbalance of rear wheel assembly	/	g	5
Tire pressure	/	KPa	240

Removal for brake plate

Remove the rear wheel assembly and place the rear wheel on the workbench. Remove the disc brake disc fastening bolts, and then remove the rear disc brake disc and the toothed ring. The re-assembly process is exactly the reverse of the disassembly process.

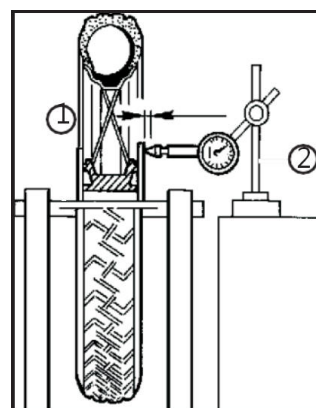
After removing the rear wheel assembly, place the rear wheel on the workbench.

Remove the brake disc fastening bolts, and remove the rear brake disc and tone ring.

The re-assembly process is the exact reverse of the removal procedure.

Notes:

The rear brake disc bolts are pre-coated with threadlocker. Use appropriate tools when removing them, otherwise they may be difficult to remove.



Important:

During assembly, ensure that the brake pad friction surfaces and the brake disc working surfaces are free of contaminants.

When re-installing the brake disc, apply threadlocker to the brake disc fastening bolts.

After re-installing the brake disc, recheck the brake disc end face runout as follows:

Place the rear wheel on the balancing stand using the balancing shaft (1).

Measure the brake disc end face runout using the dial gauge (2).

End face runout not greater than	mm	0.2
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Removal for rear tire

After removing the rear wheel assembly, place the rear wheel on the workbench.

Remove the valve core to release the air from the tire.

Use a special tool to remove the rear tire.

Remove the valve core.

The re-assembly process is the exact reverse of the removal procedure.

Notes:

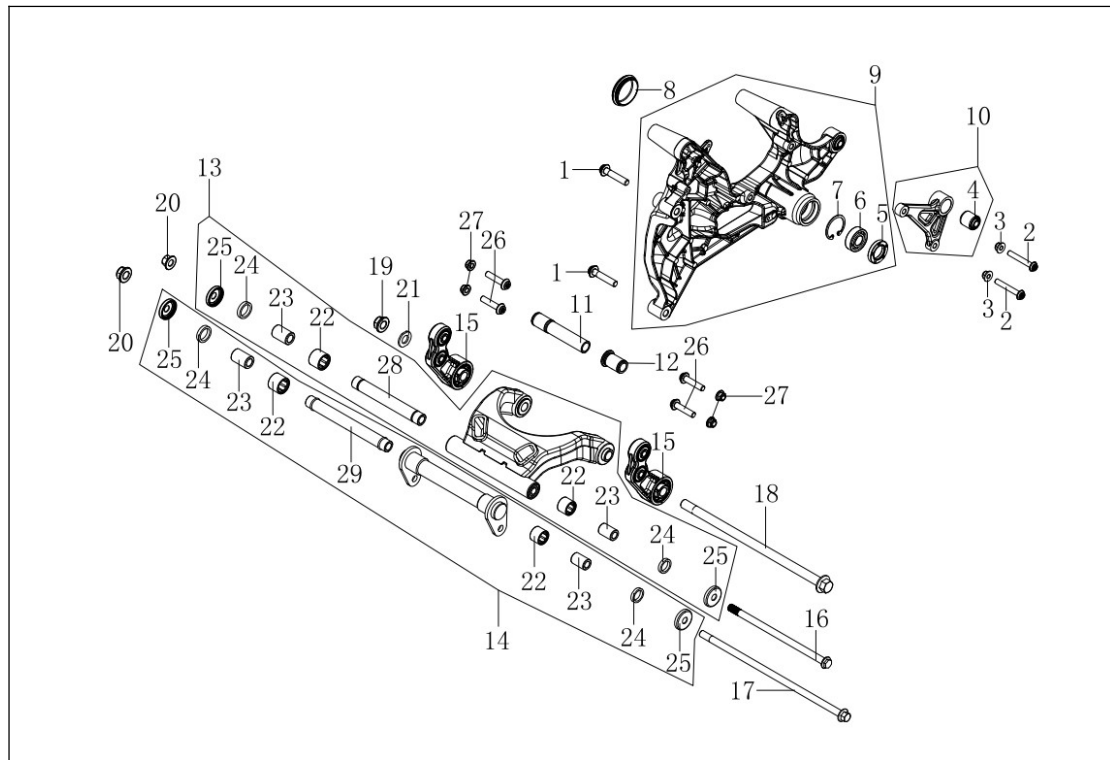
Use special equipment when re-installing the tire. Forced assembly with external force may cause permanent damage to the tire.

Important:

When re-installing the tire, align the tire's light spot with the valve core position on the rim to facilitate subsequent dynamic balancing.

11. Disassembly, re-assembly and maintenance for rear suspension kit

Rear suspension kit and its parts



1	Hexalobular socket flange head bolts	PCS	2
2	Hexalobular socket flange head bolts	SET	2
3	Full metal hexagon flange locknuts	PCS	2
4	Shock absorber buffer sleeves	PCS	1
5	Oil seals	PCS	1
6	Bearings	PCS	1
7	Snap rings	PCS	1
8	Swingarm dust covers	PCS	1
9	Swingarm assemblies	PCS	1
10	Rear shock absorber connecting brackets	PCS	1
11	Swingarm inner sleeves	PCS	1
12	Swingarm inner sleeves	PCS	1
13	Engine cradle main bodies	PCS	1
14	Engine cradle connecting brackets	PCS	1
15	Engine cradle front sections	PCS	1
16	Shafts	PCS	1

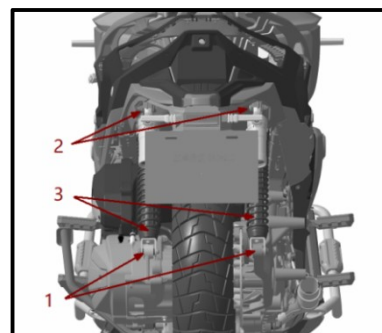
17	Shafts	PCS	1
18	Shafts	PCS	1
19	Full metal hexagon flange locknuts	PCS	1
20	Full metal hexagon flange locknuts	PCS	2
21	Flat washers	PCS	1
22	Bearings	PCS	4
23	Bushings	PCS	4
24	Oil seals	PCS	4
25	Oil seals	PCS	4
26	Shafts	PCS	4
27	Full metal hexagon flange locknuts	PCS	4
28	Swingarm inner sleeves	PCS	1
29	Swingarm inner sleeves	PCS	1

Disassembly and re-assembly for rear shock absorber

Keep the vehicle upright using the main stand. Refer to the muffler removal procedure and remove the rear section of the muffler. Use tools to remove the left and right lower mounting bolts 1 of the rear shock absorber, and the left and right upper mounting bolts 2 of the rear shock absorber. Remove the left and right rear shock absorbers 3. The re-assembly process is exactly the reverse of the disassembly process.

Parameters:

Upper and lower mounting bolts of the rear shock absorber	M10	Nm	40
Lithium-based grease		g	15



Disassembly and re-assembly for rear fork

Refer to the muffler removal procedure and remove the rear section of the muffler.

Remove the rear disc brake caliper mounting bolt 1 and loosen the rear disc brake caliper.

Remove the rear fender mounting bolt 2.

Remove the right rear shock absorber lower mounting bolt 3 and remove the swingarm dust cover 4.

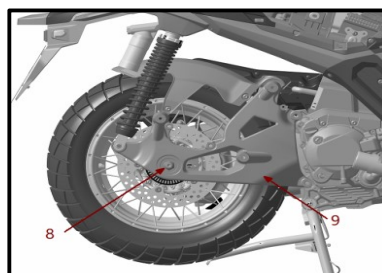
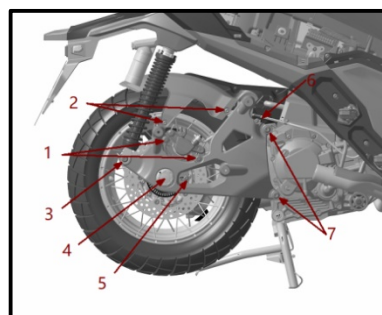
Remove the wheel speed sensor mounting bolt 5.

Remove the ABS oil pipe mounting bolt 6.

Remove the swingarm-to-engine connecting bolt 7.

Remove the swingarm-to-engine output shaft mounting bolt 8 and remove the swingarm assembly 9.

Remove the wheel speed sensor harness fixing bolt on the back of the swingarm.



Parameters:

Rear wheel axle nut torque	M16	N.m	120
Rear disc brake caliper-to-swingarm mounting bolt	M8	N.m	27
Swingarm-to-engine mounting bolt	M10	N.m	40
Wheel speed sensor-to-swingarm mounting bolt	M6	N.m	6

Disassembly and re-assembly for engine holder

Keep the vehicle upright using the main stand.

Refer to the muffler removal procedure and remove the muffler.

Remove the engine-to-bracket mounting nut 1 and pull out the connecting shaft 2.

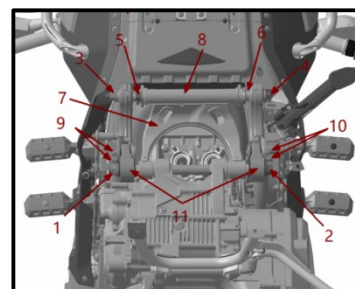
Remove the frame-to-connecting plate mounting nut 3 and pull out the connecting shaft 4.

Remove the connecting plate-to-bracket mounting nut 5 and pull out the connecting shaft 6.

Remove the bracket main body 7 and the connecting plate 8.

Use tools to offset the engine and frame at a certain angle, and remove the engine bracket front body mounting bolts 9 and 10.

Remove the left and right engine bracket front bodies 11.



Disassembly and re-assembly for holder bearing

Place the removed bracket assembly on the workbench.

Use special tools to sequentially remove the oil seal, bushing, bearing, swingarm inner liner tube, bearing, bushing and oil seal at the bracket shaft tube position.

Use special tools to remove the bushing, oil seal and bearing (needle roller) in the bearing hole of the swingarm connecting small rocker arm.

The re-assembly process is exactly the reverse of the disassembly process.

Note:

When removing bearings, please use special tools. Forcible removal may cause damage to the parts.

Important:

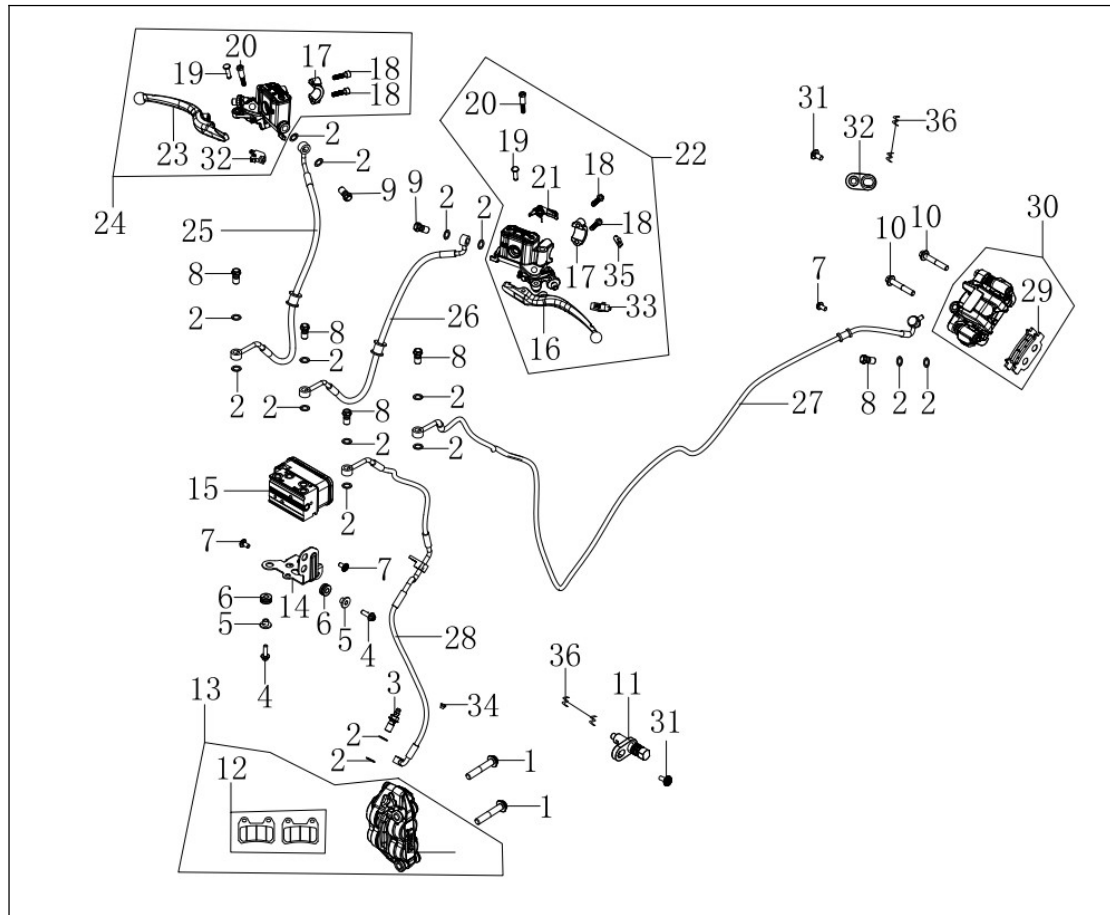
Due to the strength requirements of this product, full-complement needle roller bearings are adopted.

When reassembling the needle roller bearings, be careful not to let the needle rollers fall off the bearing, especially when installing the needle roller bearing bushings.

Apply lithium-based grease when reassembling the bushings, oil seals and bearings.

12. Disassembly, re-assembly and maintenance for brake kit

Brake kit components and parts



1	Hexalobular socket flange head bolt	EA	2
2	Plain washer	SET	16
3	Disc brake hose bolt	EA	1
4	Hexalobular head bolt	EA	2
5	Bushing	EA	2
6	I-shaped rubber ring	EA	2
7	Hexalobular head bolt	EA	2
8	Disc brake hose bolt	EA	5
9	Disc brake hose bolt	EA	2
10	Hexalobular socket flange head bolt	EA	2
11	Speed sensor	EA	2
12	Front disc brake pad assembly	EA	1
13	Front disc brake caliper	EA	1
14	ABS mounting lug	EA	1
15	ABS anti-lock braking system	EA	1

16	Left handlebar	EA	1
17	Handlebar clip 2	EA	2
18	Hexagon socket screw	EA	4
19	Hexagon socket screw	EA	1
20	Disc brake handlebar bolt	EA	2
21	Rear disc brake accessory	EA	1
22	Rear disc brake master cylinder	EA	1
23	Right handlebar	EA	1
24	Front disc brake master cylinder	EA	1
25	ABS connecting oil pipe	EA	1
26	ABS connecting oil pipe	EA	1
27	ABS connecting oil pipe	EA	1
28	ABS connecting oil pipe	EA	1
29	Rear disc brake friction pad assembly	EA	1
30	Rear disc brake caliper	EA	1
31	Hexalobular head bolt	EA	2
32	Front disc brake switch	EA	1
33	Rear brake switch	EA	1
34	Bleeder screw cap	EA	1
35	Parking brake hook mounting block	SET	7
36	Pipe clamp	EA	4

Replacement for front disc brake pad

Keep the vehicle upright using the parking stand.

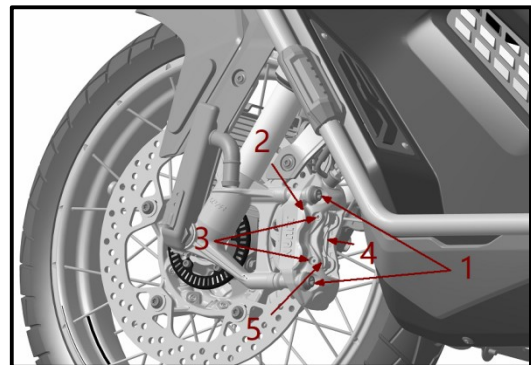
Use tools to remove the front disc brake caliper mounting bolt 1.

Remove the front disc brake caliper 2, and remove the friction pad mounting screw 3.

Lift the pressure plate 4 and remove the old friction pads 5.

Replace with new friction pads.

The re-assembly process is exactly the reverse of the disassembly process.



Important:

During re-assembly, take care not to omit the shim at the limit groove between the end face of the disc brake friction pad and the front caliper, and ensure it is assembled in place.

Do not operate the front brake handle when removing the friction pads, to avoid piston movement in the front caliper which may cause difficulty in pad installation.

When replacing the friction pads, both the inner and outer pads must be replaced as a complete set.

During assembly, ensure that the working surfaces of the disc brake friction pads and the disc brake rotor are free of contaminants.

After replacement, repeatedly squeeze the brake handle multiple times to confirm there are no abnormalities.

Dispose of the replaced front disc brake friction pads in an appropriate and environmentally friendly manner.

Parameters:

Front disc brake caliper mounting bolt	M10	N.m	40
Disc brake friction pad guide rod mounting bolt	M5	N.m	6

Replacement for rear disc brake pad

Keep the vehicle upright using the parking stand.

Refer to the muffler removal procedure and remove the rear section of the muffler.

Refer to the swingarm removal procedure and remove the rear disc brake caliper.

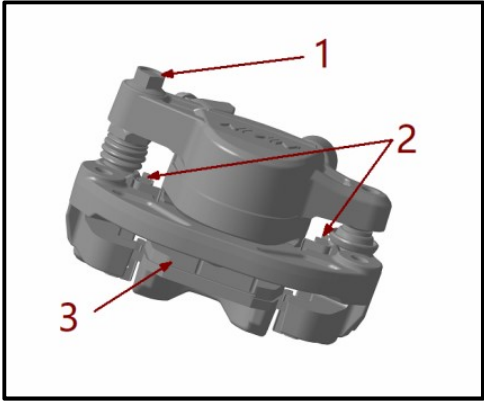
Remove the rear disc brake friction pad fixing bolt 1.

Remove the rear disc brake friction pads 3.

Replace with new rear disc brake friction pads.

Install the new friction pads into the limit position of the lining plate 2.

The re-assembly process is exactly the reverse of the disassembly process.



Important:

During re-assembly, take care not to omit the shim at the limit groove between the end face of the disc brake friction pad and the rear caliper, and ensure it is assembled in place.

Do not operate the rear brake handle when removing the friction pads, to avoid piston movement in the rear caliper which may cause difficulty in pad installation.

When replacing the friction pads, both the inner and outer pads must be replaced as a complete set.

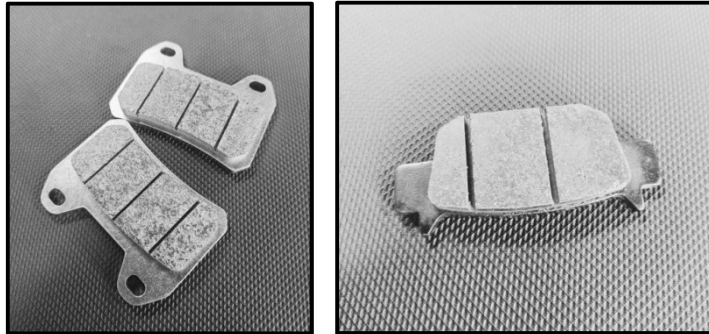
During assembly, ensure that the working surfaces of the disc brake friction pads and the disc brake rotor are free of contaminants.

After replacement, repeatedly depress the brake pedal multiple times to confirm there are no abnormalities.

Dispose of the replaced rear disc brake friction pads in an appropriate and environmentally friendly manner.

Inspection for disc brake pad

The friction pad wear indicator must be clearly visible, as shown in the figure below. The minimum friction pad thickness is 1 mm.



Inspection for liquid level in front and rear brake kit

Keep the vehicle upright using the parking stand.

Turn the handlebar so that the front brake master cylinder is in a horizontal position.

The front and rear brake fluid levels must be between the two scale lines (UPPER/LOWER) on the front and rear disc brake master cylinder reservoirs.

Note:

During the process from new friction pads to the wear limit, the brake fluid capacity (minimum/maximum) always meets the operating requirements. Generally, there is no need to add brake fluid due to friction pad wear.

If the brake fluid level drops below the minimum mark during friction pad use, it may indicate other issues.

Replacement for brake liquid in front disc brake

Keep the vehicle upright using the parking stand.

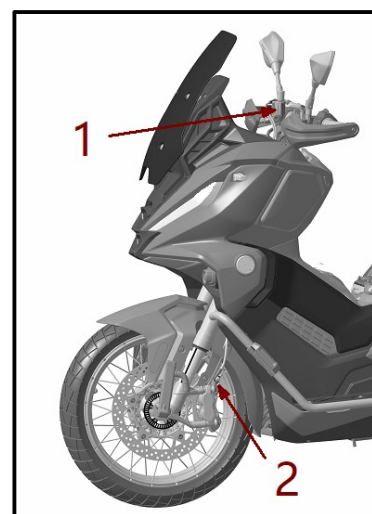
Turn the handlebar so that the disc brake fluid reservoir cover 1 reaches a horizontal position.

Use tools to remove the disc brake fluid reservoir cover together with the rubber diaphragm.

Connect the brake fluid extraction device to the bleeder screw 2 on the brake caliper.

Open the bleeder screw by turning it half a turn using a tool.

Start the brake fluid extraction device and drain all the brake fluid completely.



Inject new brake fluid from the reservoir while simultaneously operating the extraction device until the

brake fluid fills the entire brake line.

Tighten the bleeder screw.

Check that the brake fluid level in the reservoir is between (UPPER-LOWER).

Connect the ABS diagnostic tool to the ABS controller to check for fault codes; if any are present, investigate and eliminate them.

The re-assembly process is exactly the reverse of the disassembly process.

Note:

After brake fluid filling is completed, clean any oil contamination around the bleeder screw on the reservoir and the lower caliper.

Important:

Do not allow brake fluid to come into contact with any painted parts on the motorcycle, as brake fluid is corrosive.

When extracting brake fluid, do not let the fluid level drop below the LOWER mark on the reservoir, otherwise air bubbles will enter the brake system. If this occurs, the extraction process must be repeated.

After filling is completed, apply steady pressure to the brake handle and hold it for a period of time, and check the brake lines for any brake fluid leakage.

If any problem is found with the disc brake hose assembly or threaded connection parts, they should be replaced immediately.

Do not mix brake fluids of different brands or specifications.

Parameters:

Fluid reservoir cover torque	M4	N.m	1-2
Bleeder screw torque	M8	N.m	7-9
Front brake system brake fluid capacity		mL	145
Brake fluid specification			DOT4

Replacement for brake liquid in rear disc brake

Keep the vehicle upright using the parking stand.

Refer to the muffler removal procedure and remove the rear section of the muffler.

Turn the handlebar so that the disc brake fluid reservoir cover 1 reaches a horizontal position.

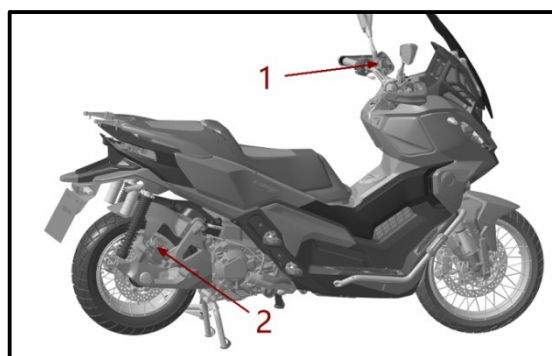
Use tools to remove the disc brake fluid reservoir cover together with the rubber diaphragm.

Connect the brake fluid extraction device to the bleeder screw 2 on the brake caliper.

Open the bleeder screw by turning it half a turn using a tool.

Start the brake fluid extraction device and drain all the brake fluid completely.

Inject new brake fluid from the reservoir while simultaneously operating the extraction device until the brake fluid fills the entire brake line.



Tighten the bleeder screw.

Check that the brake fluid level in the reservoir is between (UPPER-LOWER).

Connect the ABS diagnostic tool to the ABS controller to check for fault codes; if any are present, investigate and eliminate them.

The re-assembly process is exactly the reverse of the disassembly process.

Note:

After brake fluid filling is completed, clean any oil contamination around the bleeder screw on the reservoir and the rear caliper.

Important:

Do not allow brake fluid to come into contact with any painted parts on the motorcycle, as brake fluid is corrosive.

When extracting brake fluid, do not let the fluid level drop below the LOWER mark on the reservoir, otherwise air bubbles will enter the brake system. If this occurs, the extraction process must be repeated.

After filling is completed, apply steady pressure to the brake pedal and hold it for a period of time, and check the brake lines for any brake fluid leakage.

If any problem is found with the disc brake hose assembly or threaded connection parts, they should be replaced immediately.

Do not mix brake fluids of different brands or specifications.

Parameters:

Fluid reservoir cover torque	M4	N.m	1-2
Bleeder screw torque	M8	N.m	3.9-6.9
Rear brake system brake fluid capacity		mL	130
Brake fluid specification			DOT4

Replacement for parts in ABS, front and rear brake tube lines

Refer to the fuel tank assembly removal procedure and remove the body coverings.

Refer to the muffler removal procedure and remove the rear section of the muffler.

Remove the front disc brake caliper outlet pipe mounting bolt 1.

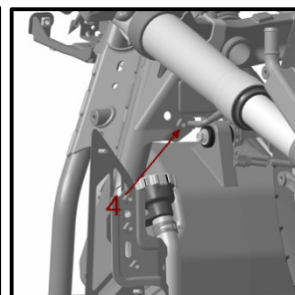
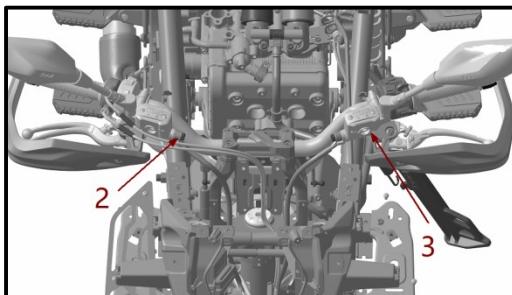
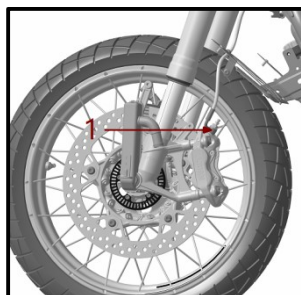
Remove the front and rear disc brake master cylinder inlet pipe mounting bolts 2 and 3.

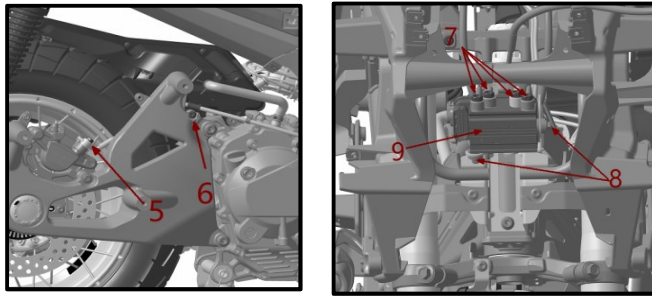
Remove the rear disc brake caliper outlet pipe-to-frame mounting bolt 4.

Remove the rear disc brake caliper outlet pipe mounting bolt 5 and the oil pipe retaining bolt 6.

Remove the ABS pump inlet and outlet pipe mounting bolts 7.

Remove the ABS pump mounting bolts 8, disconnect the connector, and remove the ABS pump 9.





The re-assembly process is exactly the reverse of the disassembly process.

Finally, fill with brake fluid according to the brake fluid replacement procedure described above, and complete the final inspection.

Important:

Brake fluid is corrosive. When draining and filling brake fluid, take care not to splash it onto skin or clothing.

The sealing washers at the banjo bolt positions must be replaced with new ones when reassembling after removal; otherwise, there is a risk of oil leakage.

A sealing washer must be installed between each adjacent sealing surface.

Parameters:

Banjo bolt-to-master cylinder torque	M10	N.m	32
Banjo bolt-to-ABS torque	M10	N.m	28
Banjo bolt-to-front and rear disc brake caliper torque	M10	N.m	32
Front disc brake caliper bleeder screw torque	M8	N.m	7-9
Rear disc brake caliper bleeder screw torque	M8	N.m	3.9-6.9
ABS mounting bracket-to-frame torque	M6	N.m	9

Removal for rear wheel speed sensor

Keep the vehicle upright using the parking stand.

Remove the wheel speed sensor mounting bolt 1, and remove the rear wheel speed sensor 2.

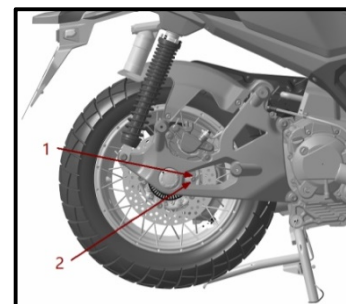
The re-assembly process is exactly the reverse of the disassembly process.

Important:

After re-installing the rear wheel speed sensor, lift the rear wheel off the ground. Rotate the rear wheel and observe the clearance variation between the wheel speed sensor and the rear ABS tone ring.

Parameters:

Sensor securing bolt torque	M6	Nm	9
Sensor-to-tone ring clearance		mm	0.5~1.5

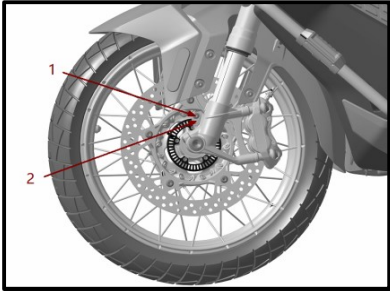


Removal for front wheel speed sensor

Keep the vehicle upright using the parking stand.

Refer to the muffler removal procedure and remove the rear section of the muffler.

Remove the front wheel speed sensor mounting bolt 1, and remove the front wheel speed sensor 2.



The re-assembly process is exactly the reverse of the disassembly process.

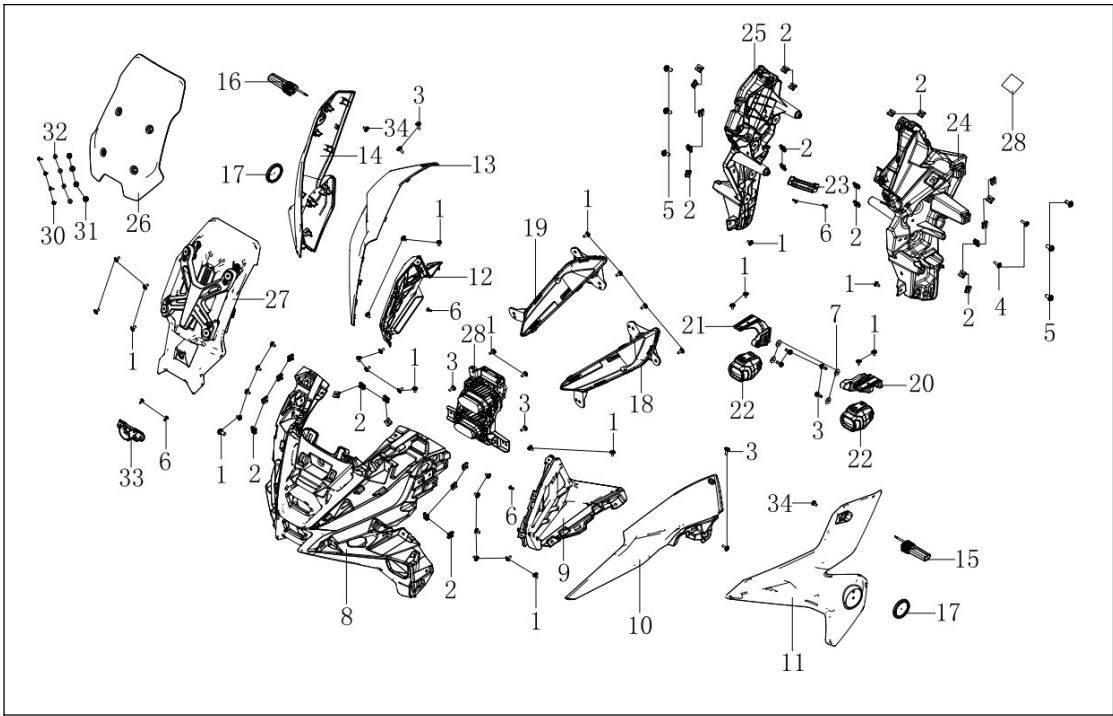
After re-installing the front wheel speed sensor, lift the front wheel off the ground. Rotate the front wheel and observe the clearance variation between the wheel speed sensor and the front ABS tone ring.

Parameters:

Sensor securing bolt torque	M6	Nm	9
Sensor-to-tone ring clearance		mm	0.5~1.5

13. Disassembly, re-assembly and maintenance for lights kit

Headlight kit and its parts



1	Internal lobular head bolt	EA	35
2	Clip nut	EA	31
3	Internal lobular head bolt	EA	10
4	Hexalobular flange bolt	EA	2
5	Hexalobular flange bolt	EA	6

6	Cross-recessed pan head tapping screw	EA	5
7	Plain washer	EA	4
8	Front panel	EA	1
9	Left windshield decorative cover	EA	1
10	Front left panel	EA	1
11	Left air deflector	EA	1
12	Right windshield decorative cover	EA	1
13	Front right panel	EA	1
14	Right air deflector	EA	1
15	Left turn signal	EA	1
16	Right turn signal	EA	1
17	Emblem/logo plate	EA	1
18	Front position lamp	EA	2
19	Front position lamp 2	EA	1
20	Decorative lamp bracket seat	EA	1
21	Decorative lamp bracket seat	EA	1
22	Fog lamp	EA	1
23	Electrical box cover plate	EA	2
24	Front panel bracket 2	EA	1
25	Front panel bracket	EA	1
26	Windshield	EA	1
27	Front windshield regulator assembly	EA	1
28	Headlamp	EA	1
29	Adhesive tape	EA	1
30	Internal lobular head bolt	EA	2
31	I-shaped rubber grommet	EA	4
32	Bushing	EA	4
33	Camera mounting bracket	EA	4
34	Internal lobular head bolt	EA	1

Disassembly for headlight kit

Keep the vehicle upright using the parking stand.

Refer to the disassembly procedure of the fuel tank assembly, and remove the front body assembly.

Remove mounting bolt 1, and remove the left front position lamp 2.

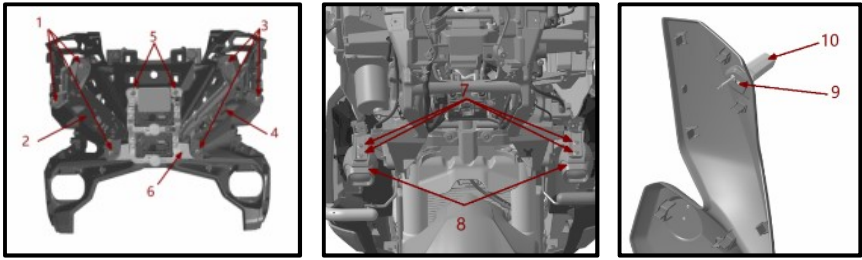
Remove mounting bolt 3, and remove the right front position lamp 4.

Remove mounting bolt 5, and remove the headlamp 6.

Remove mounting bolt 7, and remove the left and right front fog lamps 8.

Remove the left air deflector, remove turn signal mounting bolt 9, and remove the left turn signal.

The disassembly procedure for the right turn signal is the same as that for the left turn signal.

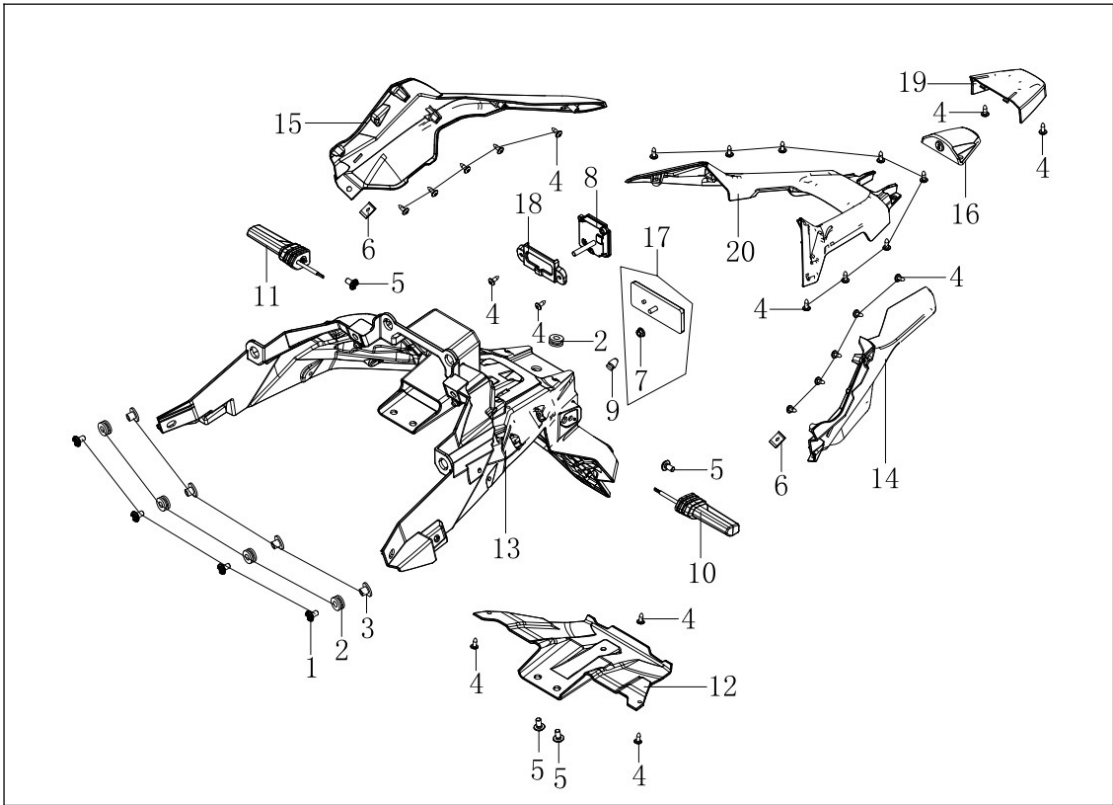


The re-assembly is completely opposite to disassembly.

Reference

Socket spline bolt	M5	Nm	4.5
	M6	Nm	6
Cross head self-tapping screw	ST4.2	N.m	1

Tail light, rear turning signal, registration light plate and their parts



1	Internal lobular head bolt	EA	4
2	I-shaped rubber grommet	EA	5
3	Plain washer	EA	4
4	Cross-recessed pan head tapping screw	EA	25
6	Internal lobular head bolt	EA	4
6	Clip nut	EA	2

7	Hexagon flange nut	EA	1
8	Radar sensor	EA	1
9	Buffer rubber pin	EA	1
10	Left turn signal 2	EA	1
11	Right turn signal 2	EA	1
12	Rear fender inner panel	EA	1
13	Rear fender	EA	1
14	Left rear side cover	EA	1
15	Right rear side cover	EA	1
16	Rear license plate lamp	EA	1
17	Rear reflector	EA	1
18	Bolt clamping plate	EA	1
19	License plate lamp rear cover	EA	1
20	Rear fender rear panel	EA	1

Removal for tail light, rear turning signal light and rear registration plate light

Keep the vehicle upright using the parking stand;

Refer to the fuel tank removal procedure, and remove the middle cover parts.

Remove the left and right cover mounting bolts 1, remove the tail cover mounting bolt 2, and remove the seat cushion cable 3.

Remove the rear fender inner liner mounting bolts 4 and 5, and remove the tail cover assembly 6.

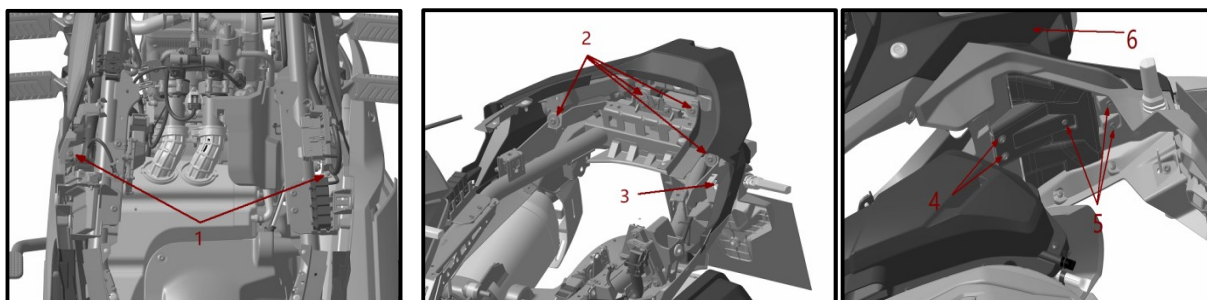
Remove the rear fender mounting bolts 7, disconnect the rear tail lamp, rear radar, and rear turn signal connectors, and remove the rear fender assembly 8.

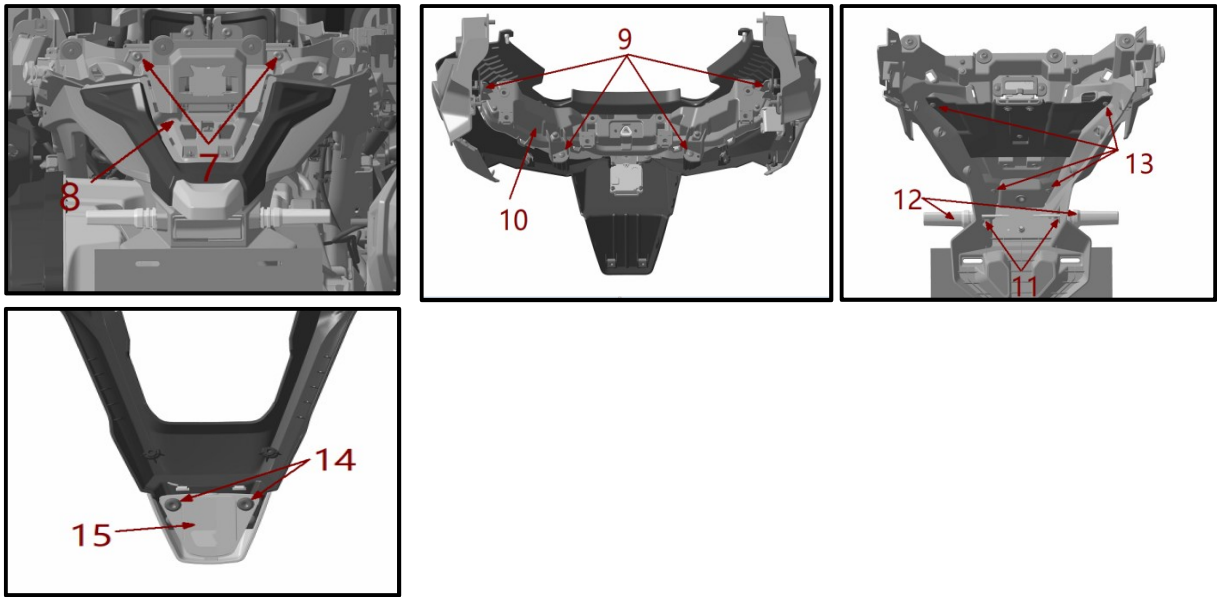
Remove the tail lamp mounting bolt 9, and remove the rear tail lamp 10.

Remove the left and right rear turn signal mounting bolts, and remove the left and right rear turn signals 12.

Remove the rear fender rear panel mounting bolt 13, remove the license plate lamp mounting bolt 14, unplug the license plate lamp connector, and remove the license plate lamp 15.

The re-assembly procedure is exactly the reverse of the disassembly procedure.

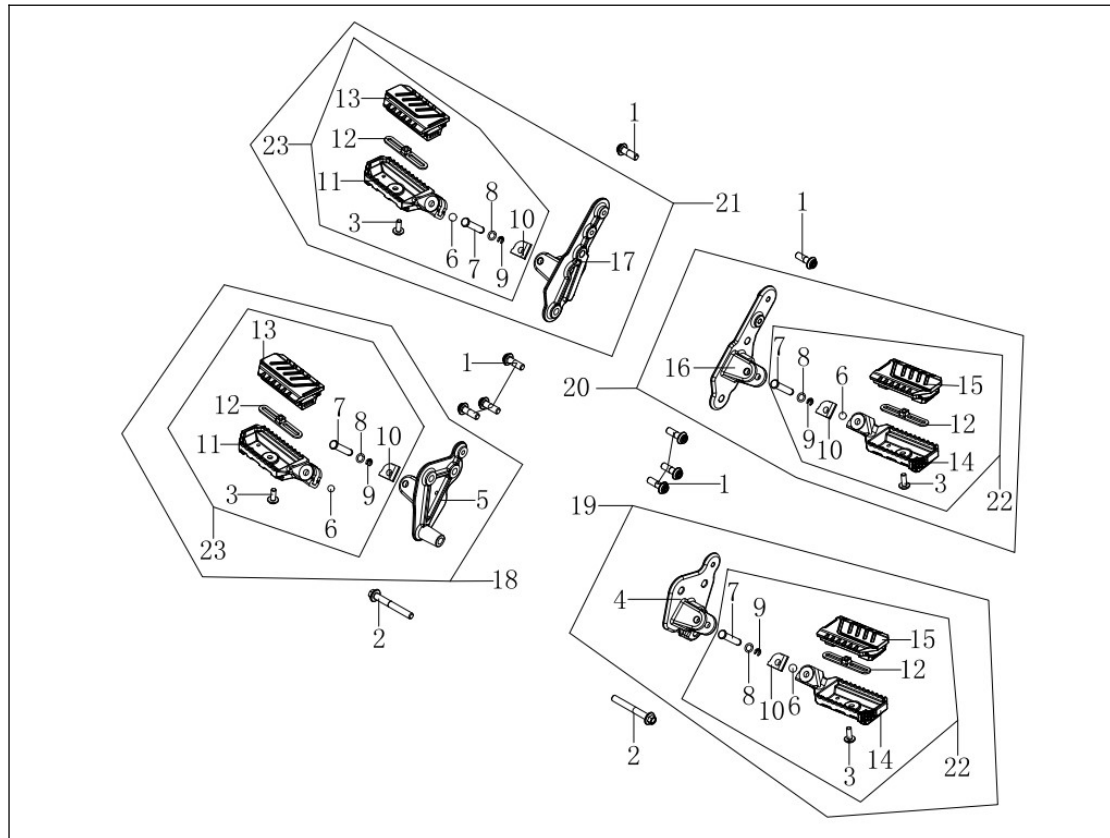




Exterior trim internal lobular head bolt	M5	Nm	4.5
	M6	Nm	6
Rear fender mounting bolt	M6	N.m	9
Rear tail lamp and license plate lamp mounting bolt	ST4.2	N.m	1

14. Disassembly, re-assembly and maintenance for main footrest and pillion step

Main footrest and pillion step



1	Hexalobular flange bolt	EA	8
2	Hexagon head flange bolt	EA	2
3	Socket head cap screw	EA	4
4	Left main footrest bracket	EA	1
5	Right main footrest bracket	EA	1
6	Steel ball	EA	4
7	Pin shaft	EA	4
8	Sealing ring	EA	4
9	Circlip	EA	4
10	Left rear auxiliary footrest positioning plate	EA	4
11	Right auxiliary footrest body	EA	2
12	Mounting base limit plate	EA	4
13	Right auxiliary footrest pedal rubber	EA	2
14	Left auxiliary footrest body	EA	2
15	Left auxiliary footrest pedal rubber	EA	2
16	Left auxiliary footrest bracket	EA	1

17	Right auxiliary footrest bracket	EA	1
18	Right main footrest assembly	EA	1
19	Left main footrest assembly	EA	1
20	Left auxiliary footrest assembly	EA	1
21	Right auxiliary footrest assembly	EA	1
22	Left main footrest pedal	EA	1
23	Right main footrest pedal	EA	1

Removal for left and right main footrest and step pillion

Keep the vehicle upright using the parking stand.

Refer to the fuel tank removal procedure, and remove the left and right footrest main body covers.

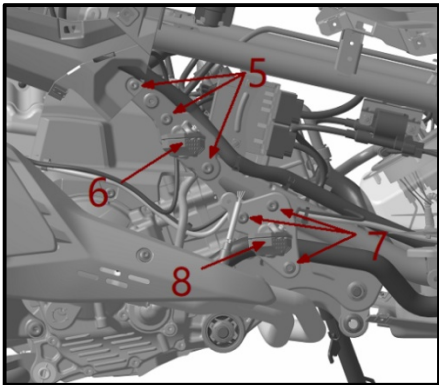
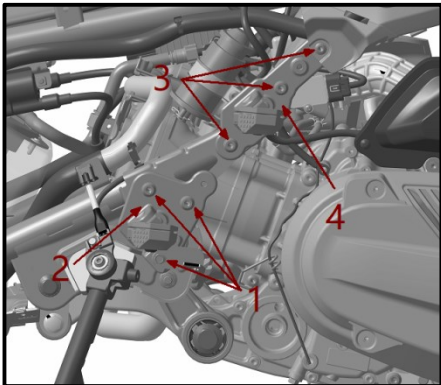
Remove the left main footrest mounting bolt 1, and remove the left main footrest 2.

Remove the left auxiliary footrest mounting bolt 3, and remove the left auxiliary footrest 4.

Remove the right auxiliary footrest mounting bolt 5, and remove the right auxiliary footrest 6.

Remove the right main footrest mounting bolt 7, and remove the right main footrest 8.

The re-assembly procedure is exactly the reverse of the disassembly procedure.

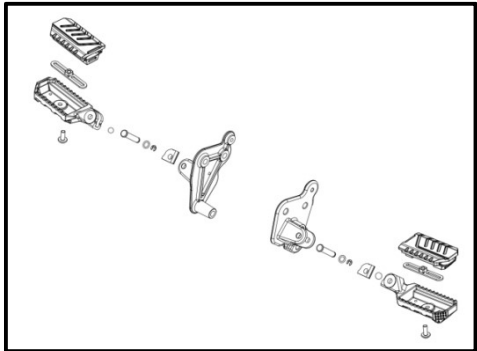


Parameters:

Main and auxiliary footrest mounting torque	M8	N.m	27
Auxiliary footrest upper mounting torque	M6	N.m	9

Removal for left and right main footrest

The left and right main footrest could be break down according to figure below.



Note:

When re-installing the footrest rubber bush mounting bolts, apply thread locker.

When re-installing the foot pegs, apply lithium-based grease to the pivot points.

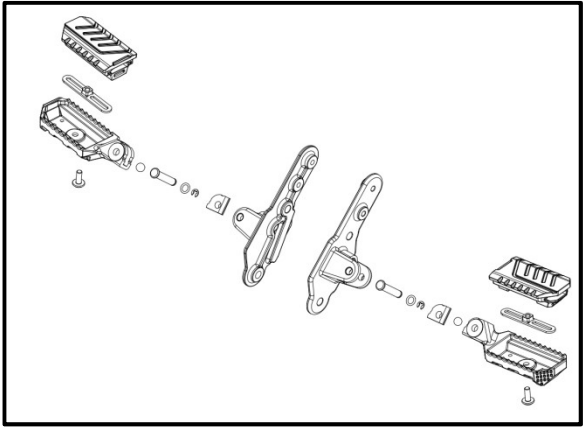
When re-installing the rear brake pedal, apply lithium-based grease to the rear brake pedal pivot shaft.

Parameters:

Lithium-based grease	g	10
Thread locker	g	5

Disassembly for left and right pillion step

The left and right pillion step could break down as figure below.



Note:

When re-installing the footrest rubber bush mounting bolts, apply thread locker.

When re-installing the foot pegs, apply lithium-based grease to the pivot points.

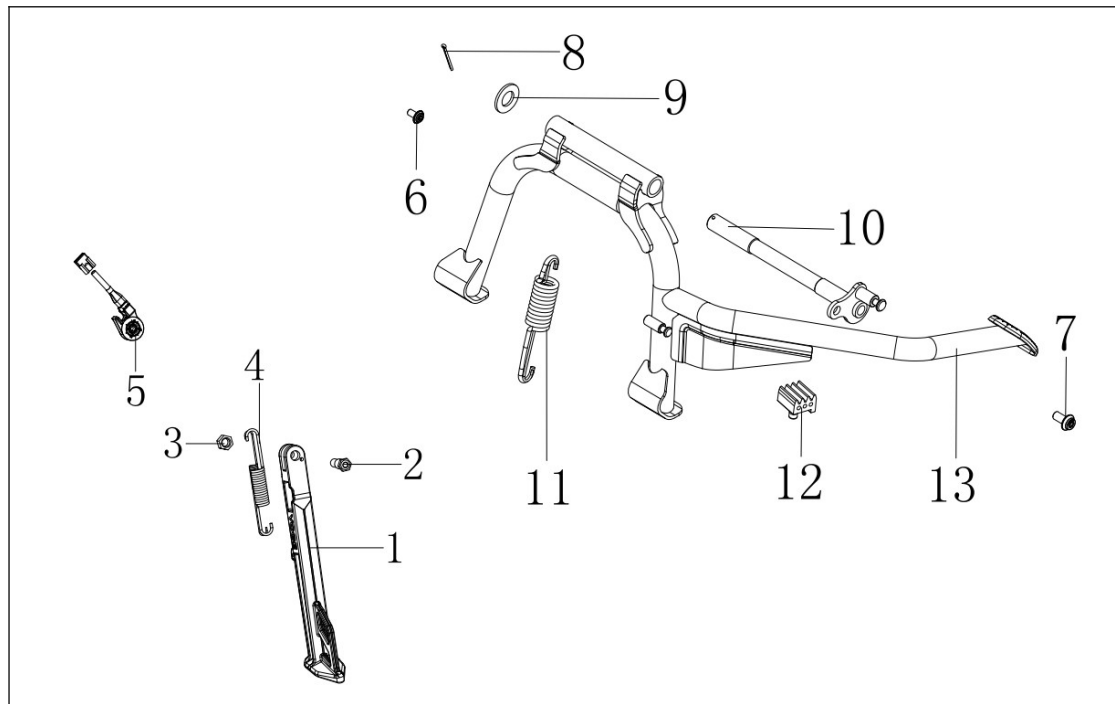
When re-installing the footpeg limit plate, spring, and steel ball, also apply lithium-based grease to the surface of the limit plate and the spring position.

Parameters:

Lithium-based grease	g	10
Thread locker	g	5

15. Disassembly, re-assembly and maintenance for side and main stand

Side, main stand and their parts



1	Side stand	EA	1
2	Hexagon head shoulder bolt	EA	1
3	Hexagon nut	EA	1
4	Tension spring	EA	1
5	Side stand engine cut-off switch	EA	1
6	Internal lobular head bolt	EA	1
7	Hexalobular flange bolt	EA	1
8	Split pin	EA	1
9	Plain washer	EA	1
10	Shaft	EA	1
11	Tension spring	EA	1
12	Main stand shock-absorbing rubber pad	EA	1
13	Main stand	EA	1

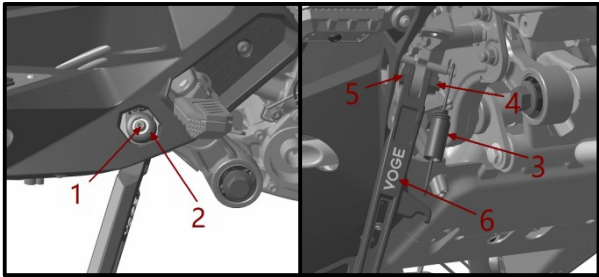
Disassembly and re-assembly for side and main stand

Keep the vehicle upright using the main stand.

Remove the side stand engine cut-off switch mounting bolt 1.

Remove the side stand engine cut-off switch 2.

Remove the side stand tension spring 3, and remove the hexagon nut 4.



Remove the hexagon head shoulder bolt 5, and remove the side stand 6.

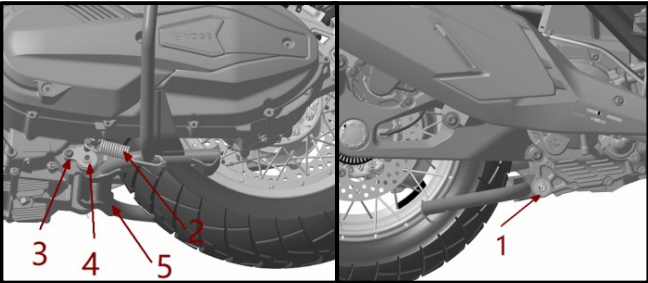
The re-assembly procedure is exactly the reverse of the disassembly procedure.

Keep the vehicle upright using the parking stand.

Remove the Split pin 1.

Remove the main stand tension spring 2 and the mounting bolt 3.

Pull out the main stand shaft 4, and remove the main stand 5.



The re-assembly procedure is exactly the reverse of the disassembly procedure.

Important:

When re-installing the side stand and the main stand, apply lithium-based grease to the pivot points.

The installation of the main stand and side stand tension springs requires the use of special tools to avoid injury during hooking.

Parameters:

Side stand hexagon head shoulder bolt tightening	M10	Nm	20
Side stand nut tightening	M10	Nm	40
Side stand engine cut-off switch tightening	M6	Nm	9
Main stand nut tightening	M8	Nm	22
Lithium-based grease		g	5