ZT310-X1/X1 GP

Service manual

2021/7/5

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All the information, illustrations and photographs collected in this manual are compiled according to the latest products. However, there may be some inconsistencies between your motorcycle and this manual due to the continuous improvement of the product and other changes.

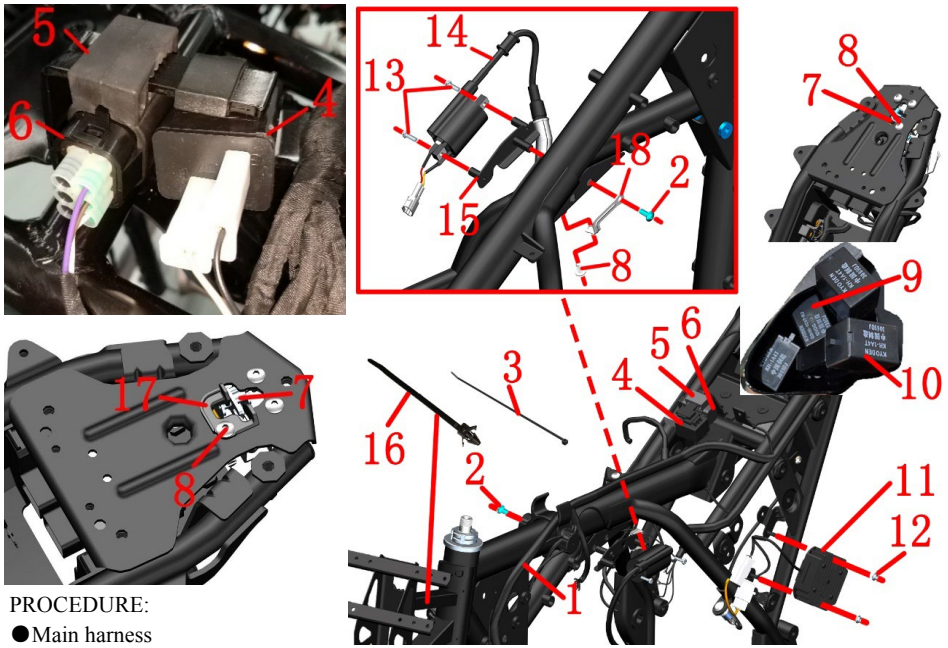


Fig.1 FRAME&ELECTRONIC PARTS COMPONENT		Electronic parts COMPONENT-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1184200-079000	ZT310-X1 wire harness assembly	1	Delphi EFI
	1184200-168000	ZT310－X1 Wire Harness component (Bosch)		Bosch EFI
2	1251100-102000	Non-standard bolt M6×16（304 stainless steel）	1	
3	1224100-037000	0 level antiflaming binding（black 3.6×295）	11	
4	1184200-039000	ZT250－S Flasher	1	
5	1244100-082000	ZT250－S Dump switch rabber	1	
6	1184100-002000	ZT250－S Dump switch	1	
7	1274100-058000	ZT310 seat lock	1	
8	1251100-101000	Non-standard bolt M6×12（304 stainless steel）	4	
9	1184200-024000	ZT310－R side stand relay	1	G8HN-1C4T-RJ
10	1184100-017000	ZT250－S Electronic fuel injection relay	2	KH-1A4T
11	1184200-033000	ZT310-R rectifier (for lithium battery)	1	Delphi EFI
	1184200-133000	ZT310 rectifier (230W)		
	1184200-174000	ZT310 rectifier (five wire)		Bosch EFI
12	1250303-010093	GB6177.1 M6	2	
13	1250201-032093	GB818M5×16 bolt	2	
14		ZT310 EFI ignition coil	1	
15	1274100-085000	ZT250－R Ignition coil installing holder	1	
16	1224100-030000	Plug cable tie (black 4.8×130)	1	
17	1224200-205000	ZT310 electronic seat lock guide block	1	
18	1274200-291000	ZT310-R ignition coil connection bracket	1	

PROCEDURE:

●Main harness

Different plug-in methods are different, please unplug all the electrical components connected to the main thread according to the actual operation. It needs to use a word screwdriver, forceps, scissors and other tools to assist. The binding(3) and (16)can be picked out by using scissors.

●Flasher and dump switch

Remove the rubber sleeve(4)that connects the flasher(5)to the mounting bracket on the frame, and remove the dump switch with the same method, then separate the dump switch(6).

●Relay&head light diode

Pull out the side stand relay(9)and electric injection relay(10)directly.

●Ignition coil &support

Remove the crosshead bolts(13) with a cross screwdriver and remove the ignition coil(14) . Remove the bolt (2) and remove the ignition coil support(15).

●Rectifier

Remove the nuts(12) and remove the rectifier(11).Note that the rectifier is not universal.The back of rectifier printed "ZT310(230W)" for the colloid battery,othervise for the lithium battery.The standard rectifier for Bosch EFI is "ZT310 rectifier (five-wire)".

●Seat lock

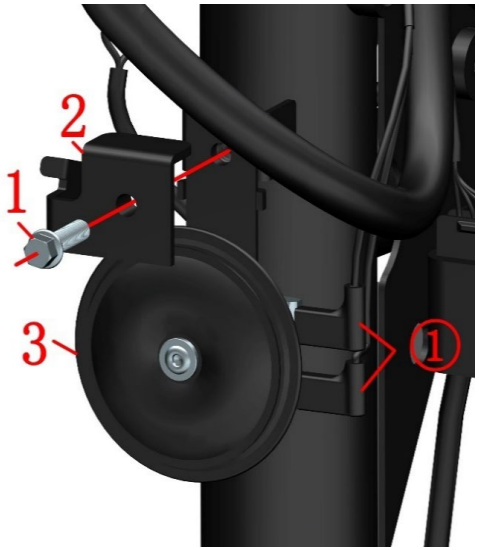
Find and take off the plug of the seat lock , and cut off binding(3). Remove bolts (8),then remove the seat lock(7) and seat lock guide block(17).

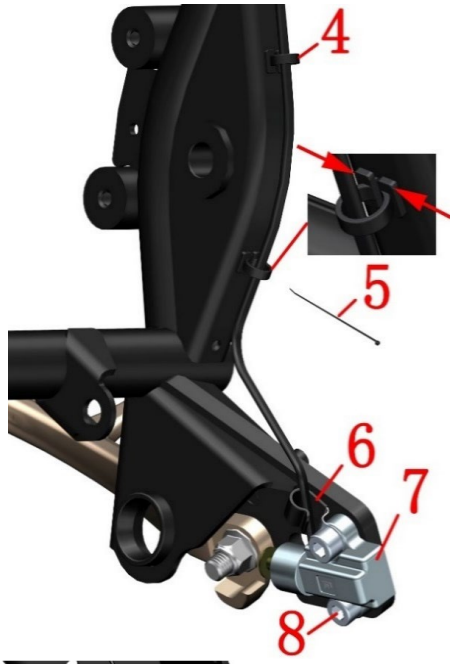
CAUTION：

●In order to avoid the improper contact of the bending electrical parts, please pay attention to the direction and angle of force when plugging the electrical parts, so as to avoid the improper contact of the bending electrical parts. No violent operation.

●The type of side stand relay：G8HN-1C4T-RJ. The type of EFI Ignition coil installing：KH-1A4T.

●From the end of October 2020, a new seat lock guide block (17).





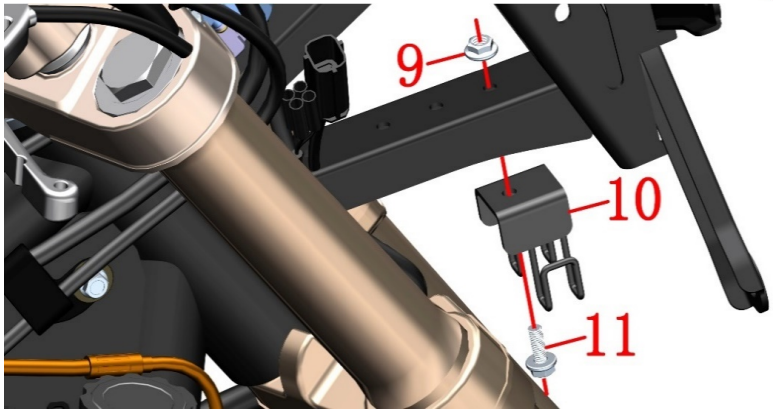


Fig.2 FRAME&ELECTRONIC PARTS COMPONENT		Electronic parts COMPONENT-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Screw bolt	1	
2	1274200-033000	ZT310－R No.2 holder of front disc oil pipe	1	
3	1184200-004000	ZT310 Horn	1	
4	1274100-017000	ZT250－S Cable clip	2	
5	1224100-037000	frane retartant ribbon	2	
6	1274100-095000	ZT250－S Holder of flameout switch cable	1	
7	1184100-012000	ZT250－S Flameout switch	1	
8	1250205-040095	GB70.1M8×16 Screw	2	
9	1250303-010093	GB6177.1M6 (environmental color zinc)	1	
10	1274200-179000	ZT310-X1 Wiring bracket	1	
11	1250105-137093	GB5789M6×16 (environmental color zinc)	1	

PROCEDURE:

●Horn

Take off the plug of horn① take the horn(3) by one hand use tool rotate the screw(1) by another hand remove the holder(2) then take off the horn.

●Flameout switch

Find and take off the plug of the flameout swich(6) press and take off the cable clip(4) cut ribbon (5).Using the inner hexagon tool, remove the bolts(8)、the holder(6) and the flameout switch(7).

●Wiring bracket

Secure the head of the bolt (11) with a sleeve, remove the nut (9), and remove the wiring bracket (10). Subsequent cancellation of the nut (9) to weld the nut on the frame.

CAUTION：

●When Take off the plug①、②can't drag any cable.

●Attention the the strength and direction of force when removing cable clip.

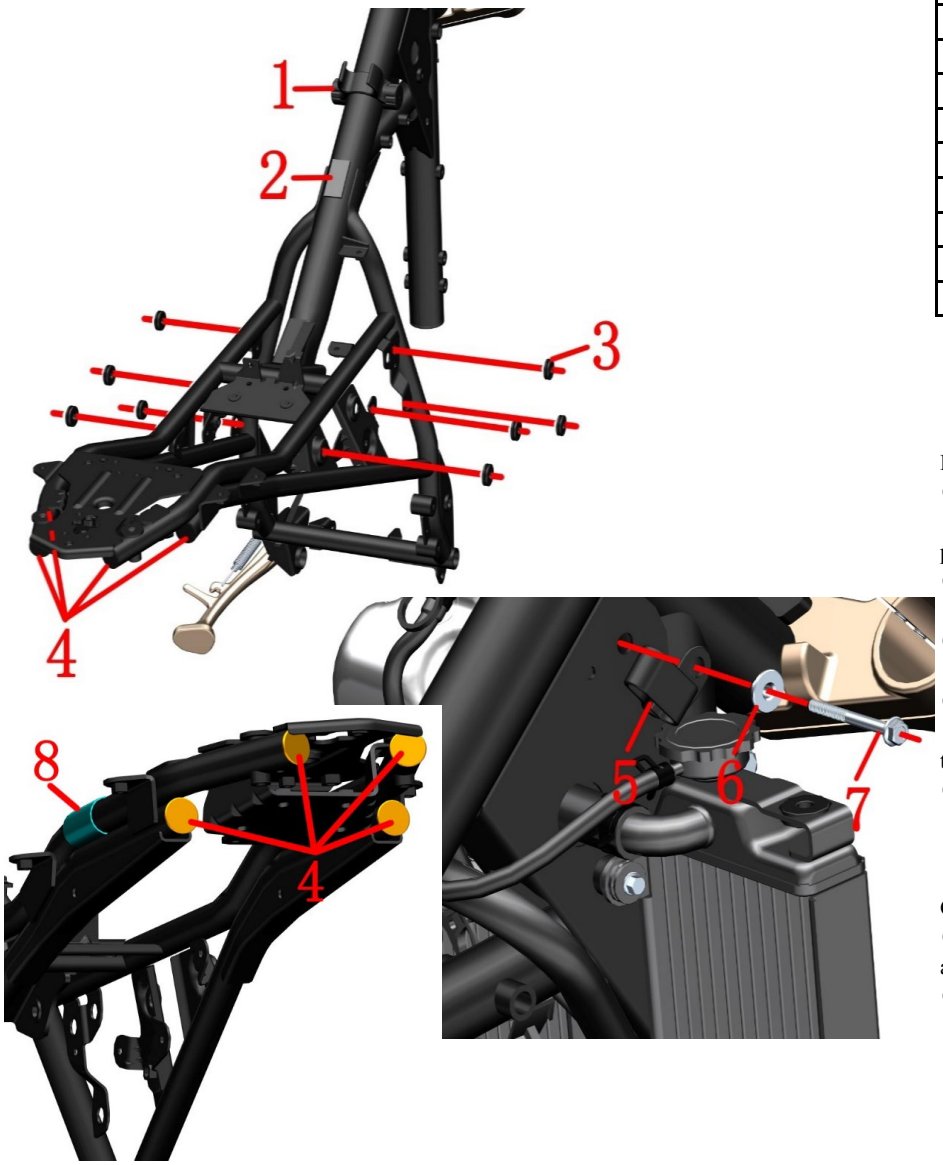


Fig.3 FRAME&ELECTRONIC PARTS COMPONENT		Frame plastic parts	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-019000	ZT250－S Inner fuel tank fix glue cushion	1	
2	1240300-007000	HJ125－6 battery cushion	1	
3	1244100-002000	ZT250－S side cover cushion	10	
4	1244100-061000	ZT250 Frame water proof rubber plug	4	
5	1224200-016000	ZT250－R Cable collection clip	1	
6	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	1	
7	1250105-236093	GB5789M6×55（environmental color zinc）	1	
8	1240100-023000	battery anode protection glue	1	colloid battery

PROCEDURE:

●Inner fuel tank ficx glue cushion

Use both hands to hold the two ends cylinder parts of the inner fuel tank limited glue cushion(1)and should push it out.

● Side cover cushion

Remove the side cover cushion(3)with your hand directly.

●Frame waterproof rubber plug

Remove the frame waterproof rubber plug (4)with your hand directly.

●Cable collection clip

First, take the cable and the main thread out from the collection clip, then use the straight screwdriver to pick up the screew(7)and then take the cushion (6) and cable collection clip(5) off.

●Battery cushion

Put off the battery cushion (2)directly by hand.

The battery anode protection glue(8) use for colloid battery models.

CAUTION：

●It must be dismantled them first, such as the cushion, fuel tank cover, inner fuel tank, sider cover, tail dress and so on.

●All parts should be correctly assembled.

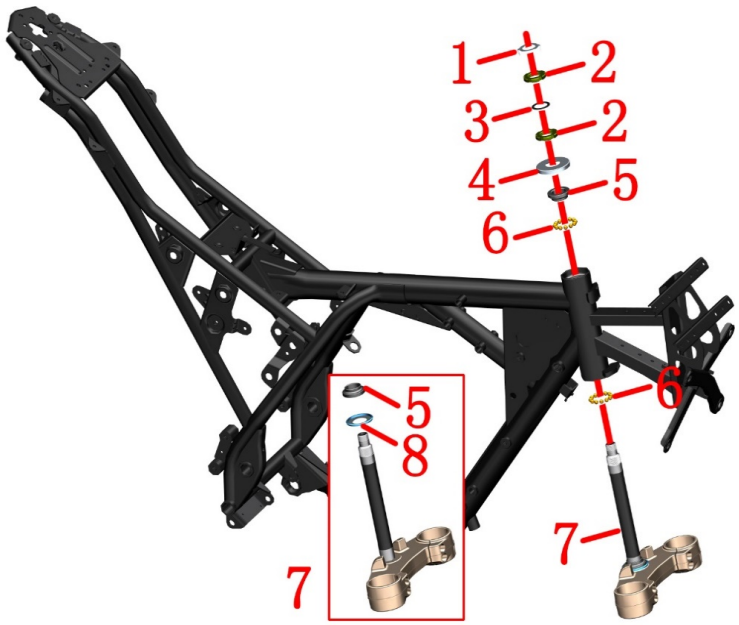


Fig.4 FRAME&ELECTRONIC PARTS COMPONENT		Steering rack component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1134100-007000	ZT250－S Rating nut lock washer	1	
2	1251300-046093	ZT250－S Steering column rating nut (color zinc)	2	
3	1244100-015000	ZT250－S Rating nut glue cushion	1	
4	1224100-005000	ZT250－S Steering column upper dustproof cover	1	
5	1130900-024000	ZT250－S Blowout patch	1	
6	1130900-022000	ZT250－S One-piece steel ball	2	
7	1134100-015000	ZT250－S Down connected plate (selfmade/with blowout patch) component	1	
8	1224100-006000	ZT250－S Steering column down dustproof cover	1	【1】

PROCEDURE:

●Dissembly

Remove the lock washer(1).

Remove the top adjusting nut (2) by using a special four-jaw or hook wrench tools.

Remove the rubber pad (3).

With one hand to hold down the down connected plate assembly (7), the other hand use a special four-jaw set or hook wrench to remove the adjusting nut(2).

Remove the upper dustproof cover(4).

Remove the down connected plate component(7).

Remove the axletee ring (5) of the upper riser and the steel ball(6).

Remove the down connected plate component(7).

Remove the steel ball of the down connected plate component(7).

●Assemble

When reassembling, the conjoined steel beads should be painted lubricating grease,attention to the dosage.

The torque of rating nut which closes to upper dustproof cover is required to about 14N.m.so as to be able to rotate out of nimbleness.

The top adjusting nut only needs to rotate to the bottom of the nut groove alignment, not too tight to prevent the rubber pad (3) from deformation too larg.

CAUTION：

●Remove the head part component, handlebarcomponent and front shock absorber component first.

●Please pay attentin to fix the awaiting repair motorcycles during disassembly,prevent dumping by accident.

●Please check whether the steel beads of the conjoined body have abnormal phenomena such as partial abrasion and rust.If YES, please buy the regular accessories on ZONTES official website, if not, please be sure to grease the old grease and repaint the lubricating grease on it.

●It must be to check whether the steel ball is available during reassembly.

●It must be reasonable to adjust the steering, too loose will cause the locomotive to brake slightly, and the locomotive will shake slightly, too tight can lead to inflexibility, resulting in safety hazards.

●If you have the ability and the right tool, you can change the shaft ring (5) and the dustproof cover (8).During the replacement process, pay attention to the protection of the lower connected plate. After replacement, it must be to check the parallelism of the column and the damping hole, the vertical degree of the vertical column and the lower connected plate.

●【1】the down connected plate (selfmade/with blowout patch) component(7), has been contains the Steering column down dustproof cover(8).

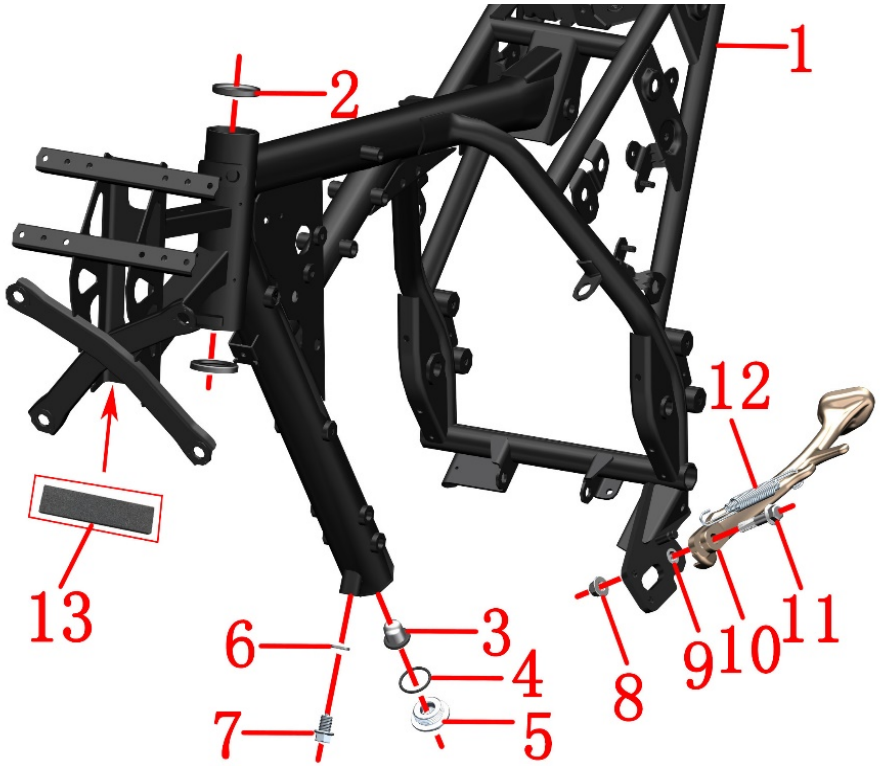


Fig.5 FRAME&ELECTRONIC PARTS COMPONENT		Frame, Side support, the operation of releasing engine oil	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4014200-021000	ZT310－X1 frame after-sales component	1	
2	1130900-026000	ZT250－S Fix loop	2	
3	1274100-006000	ZT250－S Frame engine oil filter screen	1	
4	1051453-003000	27.4×2.65 Acrylate O gule cushion loop	1	
5	1274100-024000	ZT250－S Oil cooling joint	1	
6	1244100-033000	Sealing gasketφ12×φ20×2	1	
7	1251100-066093	M12×1.5×15 Ablassschraube（color zinc）	1	24±4N.m
8	1251300-057093	Non-standard bolt M10×1.5（dacromet）	1	
9	1251700-025091	ZT250－S Side support bush	1	
10	1274200-200000	ZT310－T side support(short)	1	
	1271200-165000	ZT310-T side bracket (short/dark gray)		
11	1251100-088094	Non-standard bol M10×1.5×43（dacromet）	1	
12	1264100-001000	ZT250－S Side support spring	1	
13	1240300-066000	KD250－J head cover pad	1	

CAUTION：

●Remove the wind deflector component, handle bar component, steering column component first.

●Paint the lubricating grease on the cushion ring to decrease the rotary resistance of front forklift.

●The waste oil needs to be collected and returned to qualified institutions. It is forbidden to dump and pollute the environment and the source of water.

●Pay attention to safety when mounting side support spring.

●All parts should be correctly assembled.

●【1】the frame after-sales component contains fix loop and nameplate.

PROCEDURE:

●Checking the cushion loop

Checking whether the cushion loop (2) is frayed, if as it, please replace it on ZONTES website, fix the cushion loop well and paint the lubricating grease on it with appropriate tool.

●Replacing the engine oil filter screen

Put the oil pan on the bottom and use the appropriate tools to remove the oil cold joint (5) , O ring (4), and oil filter screen(3). When replacing the oil filter screen (3), the O-ring(4) must be replaced at the same time. The oil cooling joint(5) must be tightened well when re-assembling which meets the standard torque value.

●Realease the frame tube enging oil

Put the oil pan at the bottom, use the appropriate tool to remove the oil bolts(7) and the sealing gasket(6), and remove the oil from the frame tube. Refer to the instructions for detailed steps to replace the oil. It is recommended that the engine oil should be replaced with oil bolts (7) and sealing gasket(6) to prevent oil leakage.

●Sider support

Use the cross screwdriver to remove the side support spring, and guard against the personal injury caused by spring contraction, remove the nuts (8) and bolts (11) with the appropriate tools. Remove the side support (10) and bush(12), paint the lubricating grease on the bush when re-assembling ,then put it into the frame(1).

●Head cover pad

Remove the rubber pad (13) and clean the remaining glue.

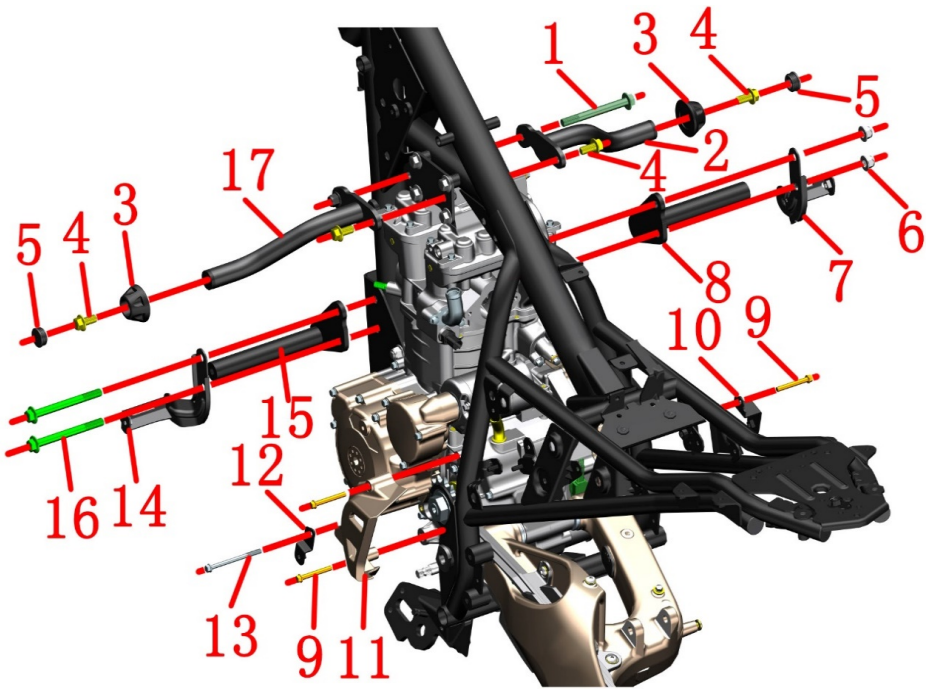


Fig.1 FRAME&ENGINE		FRAME&ENGINE 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-135000	Non-standard bolt M10×1.5×95 (Dacro)	1	
2	1144200-008000	ZT310-X right upper guard bar	1	
3	1244200-054000	ZT310-X protection bar protection glue	2	
4	1251100-082093	Non-standard bolt M10×1.5×20 (Dacro)	2	
5	1244100-061000	ZT250 frame waterproof rubber stopper	2	
6	1251300-057093	Non-standard nut M10×1.5 (Dacro)	2	
7	1274200-026000	ZT310-X lower shroud front right bracket	1	
8	1144200-007000	ZT310-X lower right guard bar	1	
9	1251112-003093	M6×45 hexagonal flange surface 9.8 bolt (environmental color zinc)	1	
10	1274200-028000	ZT310-X lower shroud rear right bracket	1	
11	4044201-022051	ZT310-R engine left rear cover	1	
	4050854-002051	ZT310-R engine left rear cover (dark grak)		
12	1274200-027000	ZT310-X lower shroud rear left bracket	1	
13	1251112-005093	M6×75 hex flange bolt (environmental color zinc)	1	
14	1274200-025000	ZT310-X lower shroud front left bracket	1	
15	1144200-006000	ZT310-X lower left guard bar	1	
16	1251100-137000	Non-standard bolt M10×1.5×100 (Dacro)	2	
17	1144200-005000	ZT310-X upper left guard bar	1	

CAUTION：

●First remove the seat cushion, fuel tank, side cover, foot support, lower guide, shift lever, muffler, radiator and its pipeline, cable, air filter interface, chain, engine negative line, etc.

●Use the appropriate tools to support the whole vehicle to prevent accidents caused by the dumping of the vehicle during the disassembly process; single operation is strictly prohibited.

●Waste engine oil should be recycled and disposed of by a qualified organization; it is forbidden to dump the polluted environment or water source at will. Wipe clean oil.

●Always be vigilant throughout the process to prevent accidents.

●When disassembling the engine, be sure to operate it at the same time.

PROCEDURE：

● engine left rear cover

Remove the left side bolt (9) of the engine with a sleeve and remove the sprocket cover (11).

●Shroud bracket

Use the sleeve to remove the bolt (13) and remove the shroud left bracket (12). Remove the bolt (9) and remove the right bracket (10). Reassemble the bolts to the engine after removing the bracket to prevent oil leakage.

●guard bar assembly

Remove the bolt (1) with a sleeve, and grasp the left upper guard bar assembly with one hand to remove the bolt (2) and then remove it. Similarly, remove the right upper guard bar assembly.

Remove the nut (6) and remove the front right bracket (7) and the lower right guard bar (8). Use a rubber mallet to strike the bolt (16) threaded head and pull out, while removing the lower left guard bar (15) and the front left bracket (14).

To disassemble the left and right upper guard bars, first remove the waterproof rubber plug (5), remove the bolt (4), and remove the protective rubber (3). If only the engine is removed, it does not decompose.

To disassemble the left and right upper guard bars, first remove the waterproof rubber plug (5), remove the bolt (4), and remove the protective rubber (3). If only the engine is removed, it does not decompose.

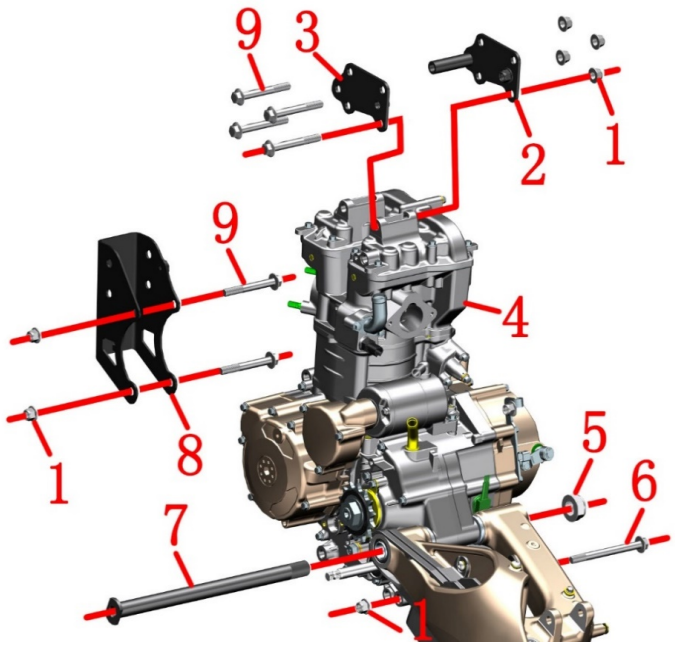


Fig.2 FRAME&ENGINE		FRAME&ENGINE 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-057093	Non-standard nut M10×1.5 (Dacro)	7	
2	1020242-186000	ZT310-R upper right hanging piece	1	
3	1020242-185000	ZT310-R top left hanging piece	1	
4		ZT180MN engine	1	
5	1251300-067000	ZT250-R rear wheel hollow shaft nut	1	110±5N.m
6	1251100-086093	Non-standard bolt M10×1.5×112 (Dacro)	1	
7	1252200-040000	ZT310-R1 rear flat fork hollow shaft	1	
8	4024200-005000	ZT310-R bracket	1	
9	1251100-132003	Non-standard bolt M10×1.5×80 (Dacro)	6	

PROCEDURE：

●The middle part of the engine is connected with the frame and the rear fork

First, fix the rear flat fork hollow shaft (7), and then remove the nut (5) with a sleeve. The rear flat fork hollow shaft (7) cannot be removed.

●Hanging piece

First cover the head of the bolt (9) with a sleeve, and then unscrewing the nut (1) with a sleeve. The bolt, right upper slat (2) and upper left shackle (3) cannot be removed; the nuts(1) are completely removed and then screwed back 3 to 5 screws.

●Bracket, engine hanging

First cover the head of the bolt (9) with a sleeve, and then remove the nut (1) with a sleeve. Remove the bracket after removing the bolt (8).

First cover the head of the bolt (6) with a sleeve, and then remove the nut (1) with a sleeve. Then the bolt (6) cannot be removed.

Hold the rear fork assembly and then remove the rear flat fork hollow shaft (7),then remove the rear fork assembly.

Both of them hold the left and right boxes of the engine at the same time; remove the bolt (9) and remove the upper right hanging piece (2) and the upper left hanging piece (3). Remove the bolt(6).

Hold the engine to translate to one side and pay attention to safety during the movement. Place the engine smoothly on the ground.

CAUTION：

●Use the appropriate tools to support the whole vehicle to prevent accidents caused by the dumping of the vehicle during the disassembly process; single operation is strictly prohibited.

●Waste engine oil should be recycled and disposed of by a qualified organization; it is forbidden to dump the polluted environment or water source at will. Wipe clean oil.

●Always be vigilant throughout the process to prevent accidents.

●When disassembling the engine, be sure to operate it at the same time.

●All standard parts must meet the standard torque value during reassembly, and re-add the oil according to the instructions.

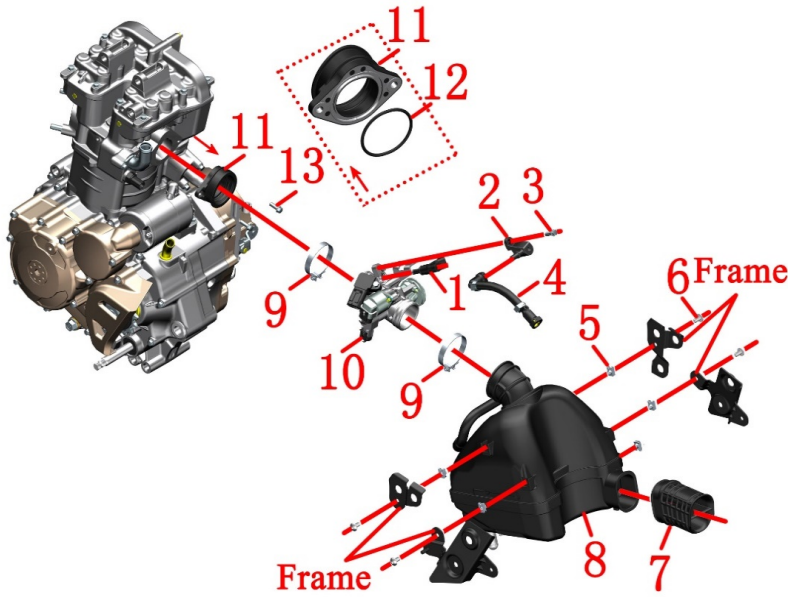


FIG.1 INTAKE SYSTEM COMPONENT		Intake system component(Delphi EFI)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1050954-007000	39－N008 Fuel injector	1	
2	1050954-008000	39－N008 Fuel injector fixator	1	
3	1251112-001093	M6×16 Hexagon flange bolt（color zinc）	1	
4	1050954-006000	ZT250-R Fuel injector high pressure oil pipe unit	1	
5	1251300-063093	Plywood M6×11×15（Environmental protection）	5	
6	1251100-101000	Non-standard bolt M6×12（304stainless steel）	5	
7	1244200-017000	ZT310－R Air filter large air inlet	1	
8	1224200-058000	ZT310－R Air filter second generation	1	
9	1051354-004000	Φ56×10 Hoop assembly	2	
10	1050954-005000	TB39 Throttle body part	1	
11	1050954-012000	TB39 Intake pipe assembly	1	
12	1051453-007000	45×2.1 Fluorine rubber O-ring	1	
13	1251100-061093	M6×22 Hexagon flange bolt（color zinc）	2	

PROCEDURE:

●High-pressure oil pipe

First press the high pressure oil pipe(4),the anti-loose snap ring close to the fuel pump connector and pull it out directly.A small amount of fuel in the oil pipe needs to be caught in the oil can; prevent fuel from dripping to any part of the vehicle.Then press the anti-loose snap ring near the injector holder(2) and remove the high pressure oil pipe,as shown in the lower right figure. Fireworks should be strictly forbided during the disassembly process.

●Air filter

Fisrt use the inner hexagon tool to remove the bolt(6).Loosen the pipe clamp assembly(9)， on the end of the air filter, Clamp the clamp on the exhaust pipe with pliers and unplug the exhaust pipe connected to the exhaust port of the engine.Then use the rubber plug that is delivered with the car when buying the car to prevent foreign matter from entering the damaged engine.Remove the air filter(8) and the plywood nut(5),finally pull out the air inlet(7).

●Throttle assembly

Use the plum blossom wrench to loosen the bolt(13)， and remove the throttle assembly..Loosen the hoop between the intake pipe assembly (11)and throttle assembly(10), and then remove them separately.Remove the O-ring (12) from the intake oipe assembly.Loosen the bolt (3) on the injector holder (2)with a sleeve. Remove the holder and remove the injector (1).

CAUTION:

●First it need to remove the cushion,side cover,oil tank outside cover and liner,rear shock absorber and electrical device box etc.

●When removing the high pressure oil pipe,It is sure to operate until the engine and muffler are completely cooled.

●Fireworks, answering or dialing should be strictly prohibited near the car-breaking site to prevent accidents.

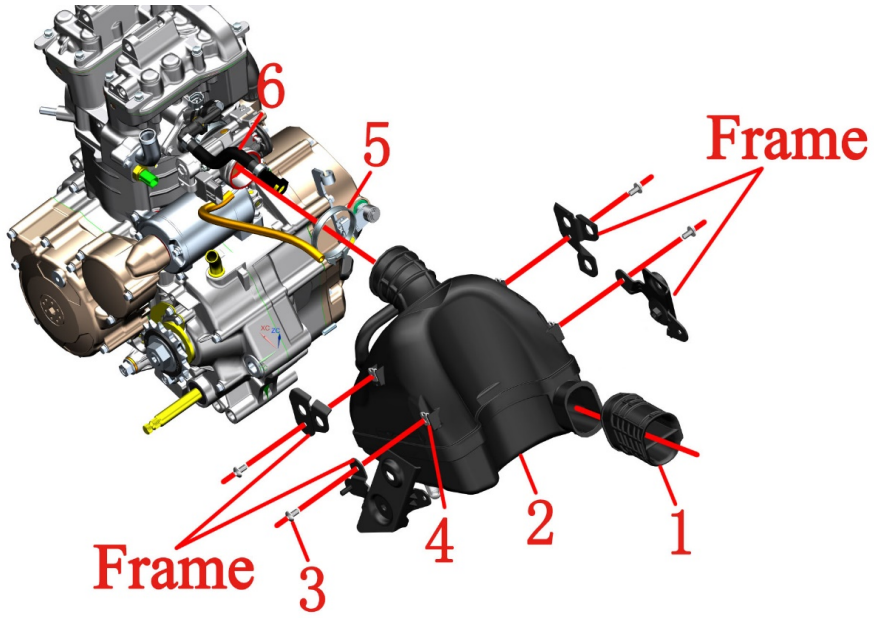


FIG.2 INTAKE SYSTEM COMPONENT		Intake system component (Bosch EFI)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244200-017000	ZT310－R Air filter large air inlet	1	
2	1224200-171000	ZT310-T1 Air Filter (Bosch)	1	
3	1251100-101000	Non-standard bolt M6×12（304stainless steel）	5	
4	1251300-063093	Plywood M6×11×15（Environmental protection）	5	
5	1051354-004000	Φ56×10 Hoop assembly	1	
6	1050954-035000	ZT310-R Fuel injector high pressure oil pipe unit	1	

PROCEDURE:

●High-pressure oil pipe

First press the high pressure oil pipe(2),the anti-loose snap ring close to the fuel pump connector and pull it out directly.A small amount of fuel in the oil pipe needs to be caught in the oil can; prevent fuel from dripping to any part of the vehicle. Fireworks should be strictly forbided during the disassembly process.

●Air filter

Fisrt use the inner hexagon tool to remove the bolt(3),Pull off the brake oil pipe from the oil pipe clamp(7) and remove it. Loosen the pipe clamp assembly(5) on the end of the air filter, Clamp the clamp on the exhaust pipe with pliers and unplug the exhaust pipe connected to the exhaust port of the engine.Then use the rubber plug that is delivered with the car when buying the car to prevent foreign matter from entering the damaged engine.Remove the air filter(2) and the plywood nut(4),finally pull out the air inlet(1).

CAUTION:

●First it need to remove the cushion,side cover,oil tank outside cover and liner,rear shock absorber and electrical device box etc.

●When removing the high pressure oil pipe,It is sure to operate until the engine and muffler are completely cooled.

●Fireworks, answering or dialing should be strictly prohibited near the car-breaking site to prevent accidents.

old

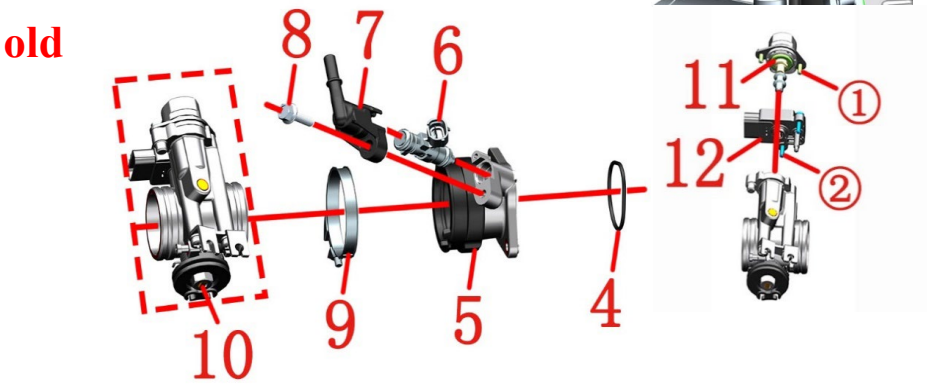
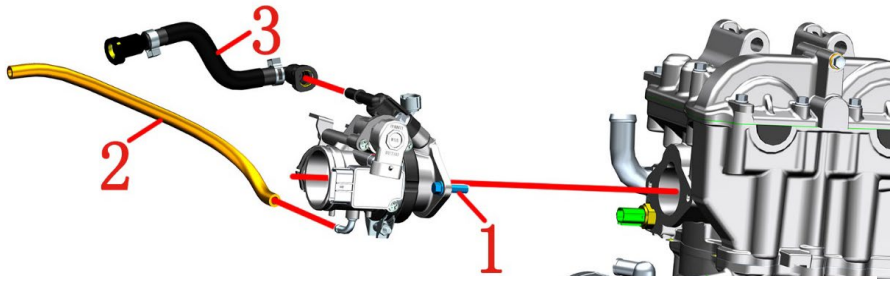
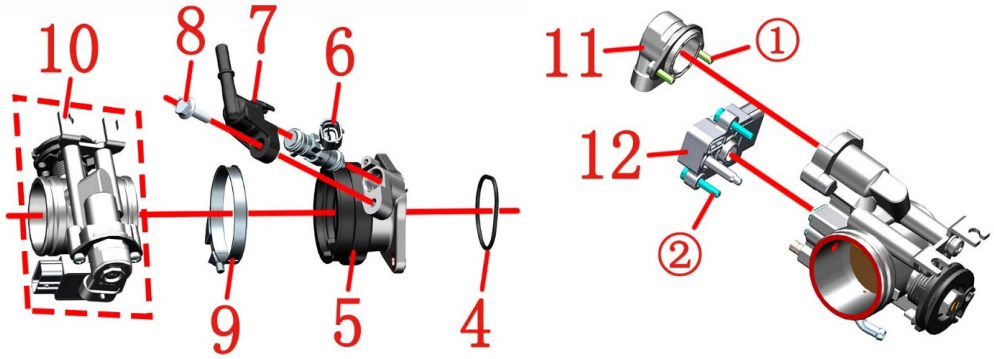


FIG.3 INTAKE SYSTEM COMPONENT		Intake system component (Bosch EFI)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Hexagon flange bolt（color zinc）	2	
2	1244200-117000	ZT40 Throttle valve desorption rubber tubing	1	
3	1050954-035000	ZT310-R Fuel injector high pressure oil pipe unit	1	
4	1051454-016000	45×2.5 Fluorine rubber O-ring	1	
5	1050954-034000	ZT180MN Intake pipe assembly (Bosch)	1	
6	1050954-023000	EV14 Fuel injector G48	1	
7	1050968-002000	ZT1P58MJ Fuel injector fixator	1	
8	1250105-138093	GB5789M6×20（color zinc）	1	
9	1051354-004000	Φ56×10 Hoop assembly	1	
10		Three-in-one valve body (10)	1	
11	1050954-025000	DLA-mini flangeless stepper motor 8mm	1	after-sale
12	1050954-024000	CTS three-in-one sensor	1	

new





PROCEDURE:

●Throttle assembly

Use a wrench to remove the bolt (1), remove the throttle valve assembly, and remove the O-ring (4) from the intake pipe assembly (5).Then press the anti-loose snap ring near the injector holder (7) and remove the high pressure oil pipe,as shown in the lower right figure. Pull out the throttle valve desorption rubber tube (2) from the throttle valve body, use a sleeve to remove the bolt (8) that fixes the injector holder (8) to remove the holder, and remove the injector (6). Loosen the pipe clamp (9) between the intake pipe assembly (5) and the three-in-one valve body (10), remove the bolts ① and ② with a cross-shaped screw, and take out the stepping motor (11) and the three-in-one sensor (12).

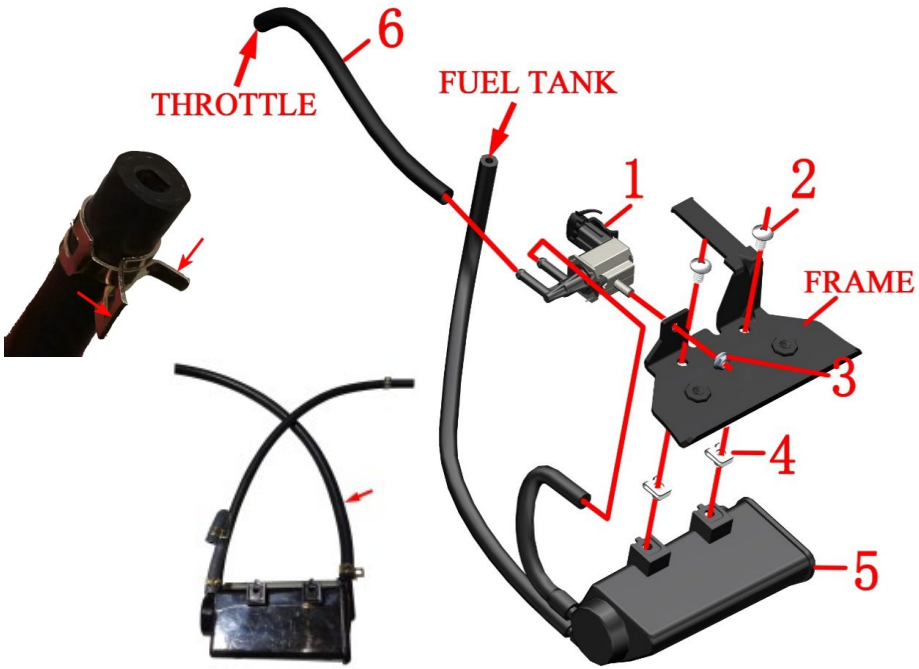


Fig.2 INDUCTION SYSTEM COMPONENT		Induction system component	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1050954-009000	YH Carbon tank electromagnetic valve	1	
2	1251100-101000	Non-standard bolts M6×12（304 stainless steel）	2	
3	1250303-010093	GB6177.1M6（color zinc）	1	
4	1251300-063093	Plywoord M6×11×15（color zinc）	2	
5	1224200-158000	ZT310－R Carbon tank II (with fuel pipe)	1	
6	1244200-004000	TB41 Throttle valve desorption rubber tubing	1	Delphi EFI
	1244200-117000	ZT40 Throttle valve desorption rubber tubing		Bosch EFI

PROCEDURE:

●Carbon tank

Clamp the pipe clamp on the exit of the oil and gas separator at the bottom of the tank with pliers and pull out the tubing. Unplug carbon tank solenoid valve (1) with the same method. Remove the bolts with the inner hex tool (2). Remove thecarbon tank (5) from the left side of the frame and remove the plywood nut (4).

●Desorption tubing

Clamp the pipe clamp on both ends of the desorption tubing,and take the it (6) out.

●Carbon tank electromangnetic valve

Remove the plug of the solenoid valve (1), then remove the nut (3) with the sleeve and remove the electromagnetic valve.

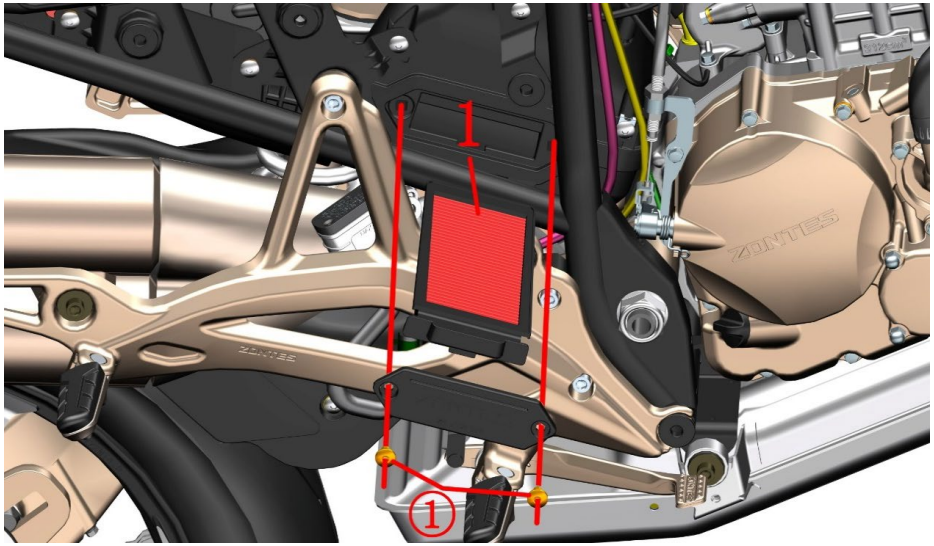
CAUTION:

●It needs to remove the seat cushion, side cover, oil tank cover, bladdar and so on.

●Regularly check whether the filter element of the carbon tank and air filter is not ventilated, otherwise it may cause the oil supply to affect the driving experience.

●It should be no crimp, entanglement and other phenomena.

●Add a fuel pipe on March 13,2019 to prevent fuel dropping onto the muffler surface.



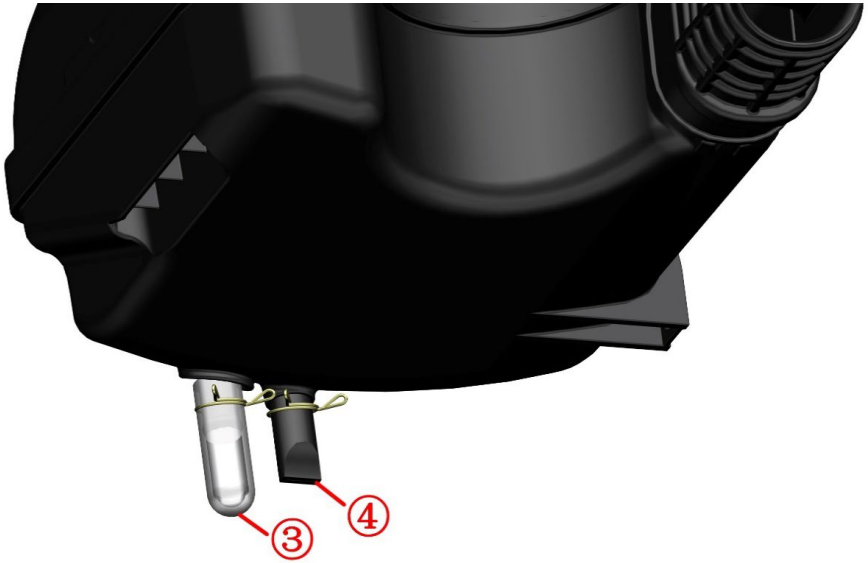


Fig.3 INDUCTION SYSTEM COMPONENT		Induction system component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4134200-002000	ZT310 Air filter sponge filter element（carton packaging）	1	

PROCEDURE:

●Filter element

If you need to maintain the filter element of the air filter, remove the seat cushion, the right side cover Take the two standard parts ① out of air filter with the tool, dismantle the box cover ②, then extract the filter element (1). Blow the dust off the filter core by blowing dust gun in the filter element. If the blowback causes the dust to be unable to clean up, the engine will be damaged or the induction resistance will become larger and affect the driving experience. If there is any damage, please log on the official website and purchase another parts.

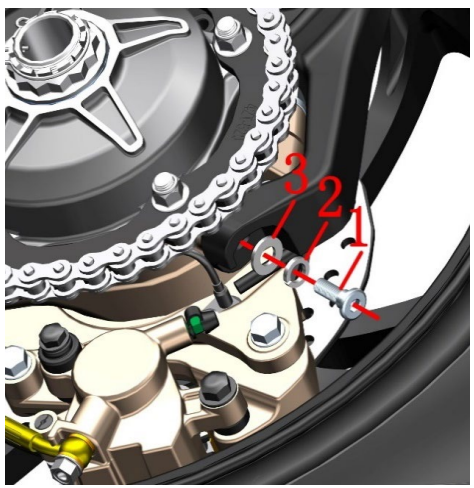
●Oil pipe and water pipe

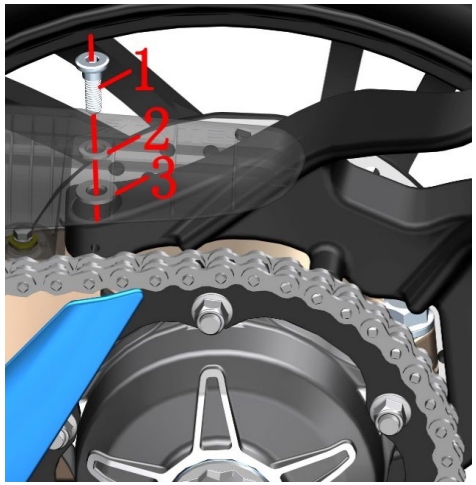
Avoid water into the air filter when washing the motorcycle. Can pulled out the oil pipe③ and water pipe④to release if into small water.keep no water inside before staring the engine. Inspecte the oil pipe regularly if more oil is accumulated should be released in time.

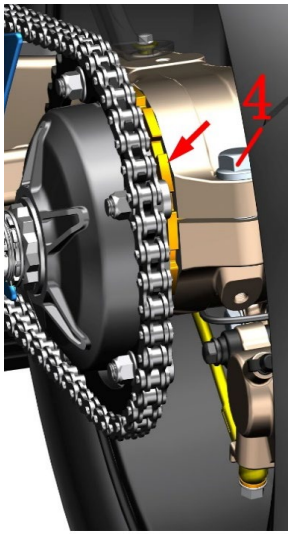
CAUTION:

●Regularly check whether the filter element of the carbon tank and air filter is not ventilated, otherwise it may cause the oil supply to affect the driving experience.

●When blowing dust, pay attention to maintain a certain distance to avoid excessive damage to the filter element.







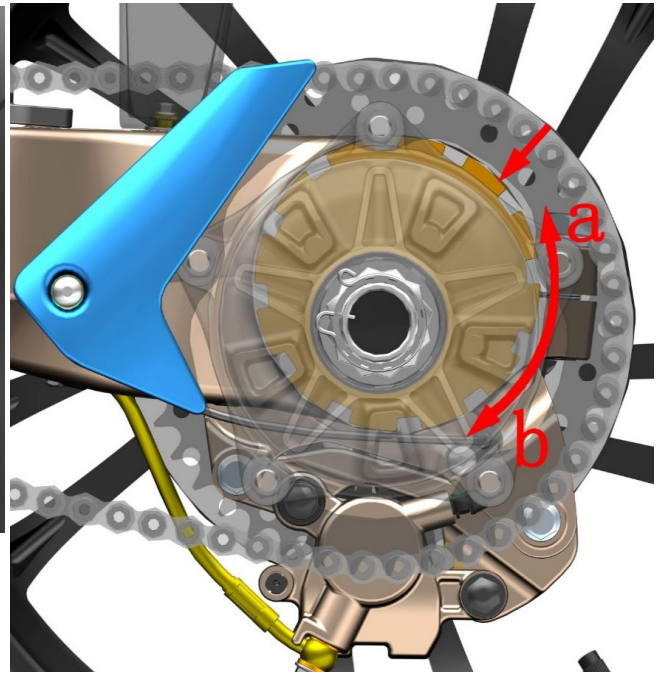


Fig.1 Rear wheel, swinging arm assembly		Adjustment chain	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-117093	Non standard hex socket bolt M8×25	2	
2	1250501-004091	GB93φ10（white zinc）	2	
3	1250503-006091	GB97.1φ10（white zinc）	2	
4	1251100-204000	Non-standard Bolt M16×1.5×50（color zinc）	1	100N.m

PROCEDURE:

●Rear auxiliary mud plate assembly

Remove the bolt (1) at the bottom of the rear sub-slab assembly and remove the spring washer (2) and flat washer (3).

After holding the rear sub-mud assembly in one hand, remove the upper bolt (1) and remove the spring pad (2) and flat pad (3). Place the rear sub-mud assembly properly, taking care not to pull the cable.

●Sprocket assembly

Use a #21 sleeve to loosen the bolt (4).

Use a special hook wrench to turn the eccentric chain adjuster at the arrow indication. The counterclockwise direction is to tighten the chain, and the clockwise b direction is loose.

The chain sag is 18~25mm. If it is too large, it will cause the chain to be accidental or damage the engine. If it is too small, it will aggravate the wear of the chain and sprocket.

After adjusting the chain, restore it and pay attention to the torque of the bolt (4).

CAUTION:

●The upper bolt can only be removed after holding the rear mud plate assembly; Do not pull the cable

●The torque of the bolt (4) is 100N.m.

●The chain must be checked regularly for excessive wear; the chain should be cleaned and properly lubricated regularly.

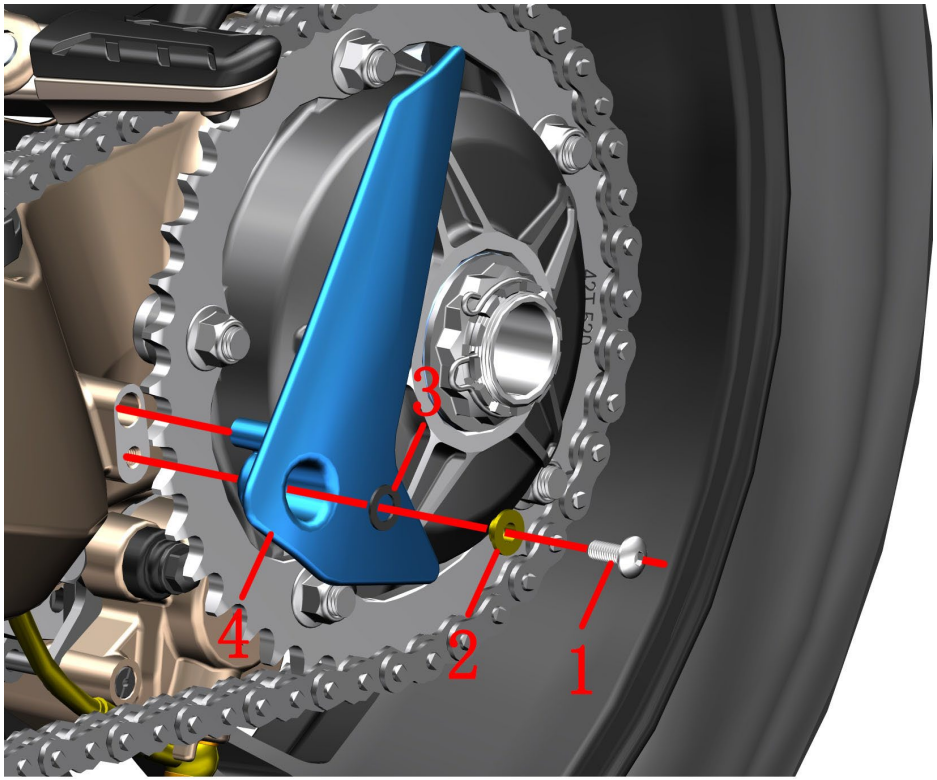


Fig.2 Rear wheel, swinging arm assembly		Sprocket baffle	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard Bolt M6×12（304 stainless steel）	1	
2	1274100-057095	Bush φ6.2×φ8.4×3.5＋φ14×1.5	1	
3	1244100-052000	Gum cushion, bush（φ8.5×φ14×1）	1	
4	4044201-263063	ZT310-R1 sprocket baffle (bright blue)	1	
	4044201-264021	ZT310-R1 sprocket baffle (bright black)		
	4044201-263002	ZT310-R1 sprocket baffle (pearl white)		
	4044201-263051	ZT310-R1 sprocket baffle (dark gray)		
	4044201-263015	ZT310-R1 sprocket baffle (jewel red)		

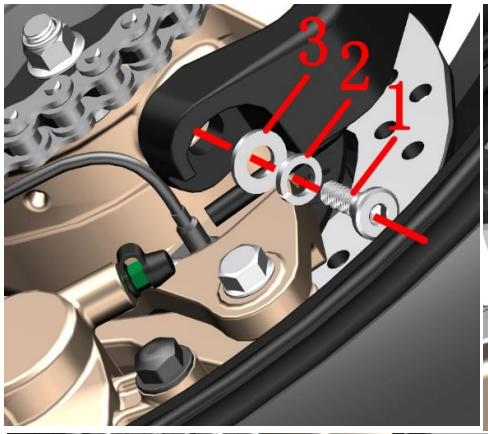
PROCEDURE:

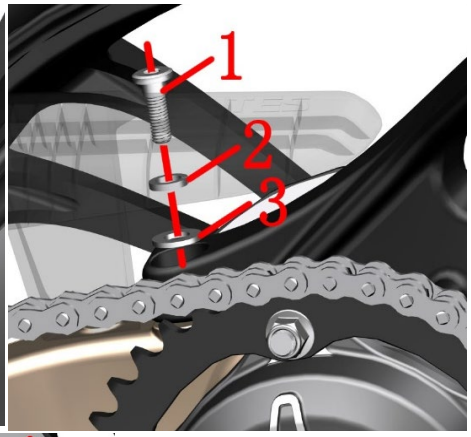
●Sprocket baffle

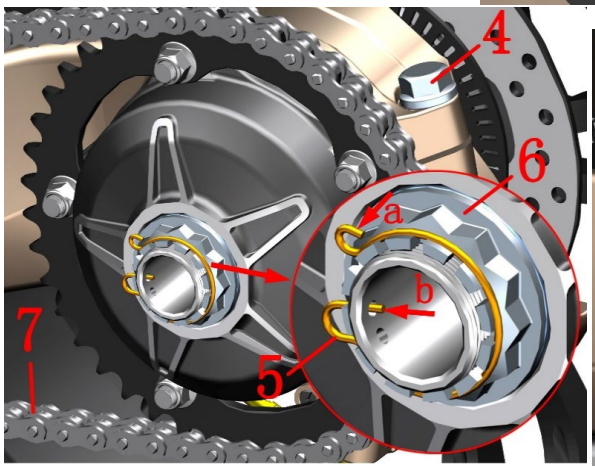
Remove the bolt(1), remove the flange bushing (2), cushion rubber(3); finally remove the sprocket baffle(4).

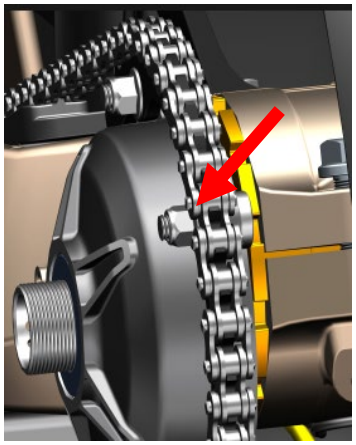
CAUTION:

●When reassembling, pay attention to the limit boss on the sprocket baffle to be inserted into the limit hole of the rear fork.









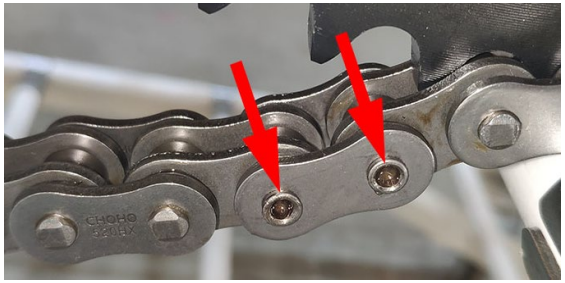


Fig.3 Rear wheel, swinging arm assembly		Sprocket assembly 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-117093	Non standard hex socket bolt M8×25	2	
2	1250501-004091	GB93φ10（white zinc）	2	
3	1250503-006091	GB97.1φ10（white zinc）	2	
4	1251100-204000	Non standard bolt M16×1.5×50(color zinc)	1	100N.m
5	1094100-062000	M35 nut locking spring	1	
6	1251300-070000	Non standard nut M35×1.5(environmental color zinc)	1	200N.m
7	1080200-055000	ZT250－R 114 chain（CHOHO520HX/Open type）	1	
8	1080200-073000	520HX middle perforated transition link	1	After sales

PROCEDURE:

●Rear auxiliary mud plate assembly

Remove the bolt (1) at the bottom of the rear sub-slab assembly and remove the spring washer(2) and flat washer (3).

After holding the rear sub-mud assembly in one hand, remove the upper bolt(1)and remove the spring washer(2) and flat washer(3). Place the rear sub-mud assembly properly, taking care not to pull the cable.

●Sprocket assembly

Use the No. 21 sleeve to loosen the bolt(4) without removing it.

Pull the locking spring (5)a radially out of the groove on the nut(6)and pull it out in the axial direction; remove the locking spring(5) in the direction indicated by the arrow b.

One person stepped on the brake pedal to prevent the rear wheel from rotating. One person removed the nut(6) with a 42mm 12-angle sleeve + 280N.m torque wrench.

Use a special hook wrench to turn the eccentric chain adjuster at the arrow direction clockwise to remove the chain from the sprocket.

Remove the sprocket assembly.

●Chain

Rotate the chain on the left to find the clasp. Grind off the angle grinder to remove the chain(7).

Punch links(8) can be purchased on the official website or other online shopping platforms. A dedicated chain installation tool is required and the tool must be purchased by yourself. The card for the transition link must be on the outside.

CAUTION:

●The upper bolt sits only after the rear mud plate assembly needs to be dragged down; you can't pull the cable.

Punching chain buckle

A special chain installation tool is required.
This chain does not contain tools and must be purchased separately.

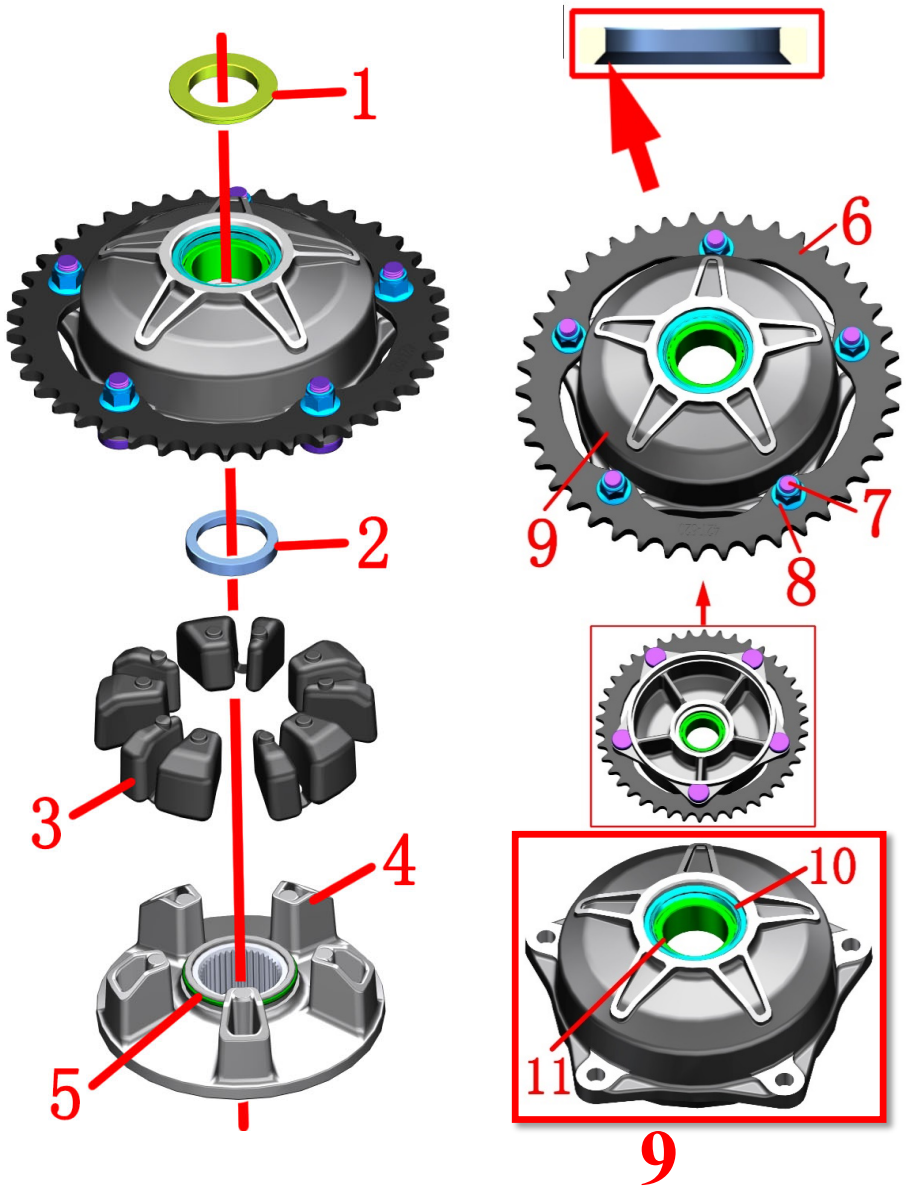


Fig.4 Rear wheel, swinging arm component		Sprocket assembly 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1274100-108000	Bushing Φ45×Φ35×5.5+Φ54×Φ35×2	1	
2	1274100-105000	Bushing Φ46×Φ35×7.3	1	
3	1244100-087000	ZT310-R1 single rear fork sprocket buffer rubber	5	
4	1094200-013000	ZT310 single rear fork sprocket seat inner shell	1	
5	1244200-088000	O-ring (Φ52.4×2.6)	1	
6	1274200-120000	ZT310 single rear fork arm 520-42T sprocket	1	
7	1251100-190000	Non standard bolt M10×1.5×30（color zinc）	5	
8	1251300-057093	Non standard nut M10×1.5（DACROMET）	5	
9	4024200-047000	ZT310 single rear fork sprocket seat shell assembly (including bearing / oil seal)	1	
	4024200-086051	ZT310 dark gray single rear fork sprocket seat shell assembly (including bearing / oil seal)		
10	1244200-045000	ZT310 single rear fork arm Φ45×Φ55×5 oil seal	1	after-sale
11	1250601-095000	DA355520-2RS angular contact bearing	1	

PROCEDURE:

●Sprocket assembly

Remove the bushing(1) to separate the inside and outside of the sprocket seat.

Remove the bushing(2). When reassembling, pay attention to the bushing(2). The larger chamfered end faces the inner shell of the sprocket seat.

Remove 5 pieces of sprocket cushion rubber (3) from the outer casing assembly(9).

Remove the O-ring(5) from the inner casing (4).

The outer casing assembly(9)already contains an oil seal(10)and a bearing(11)which are attached to the outer casing for interference, and it is not recommended to disassemble the assembly if necessary.

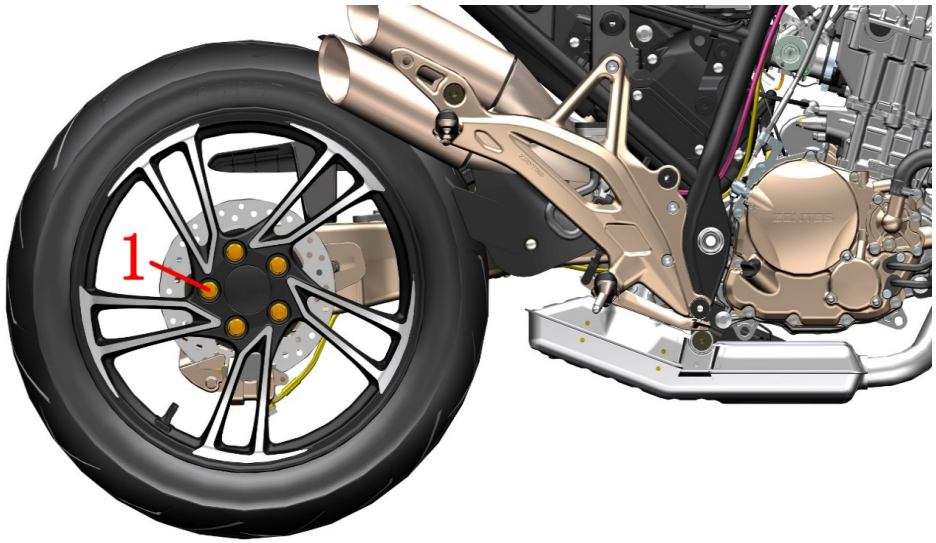
●Sprocket

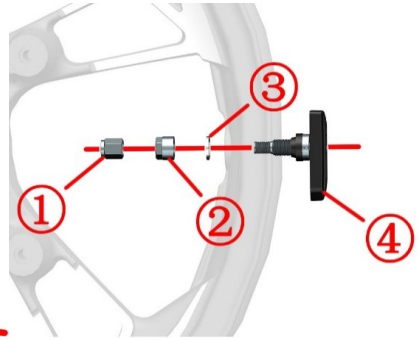
Remove the 5 nuts(8), remove the 5 bolts(7), and remove the sprocket(6). When reassembling, pay attention to the sprocket with the word one facing outward.

CAUTION:

●The notch position of the bolt (7) is facing inward.

●The sprocket seat housing assembly(9) already contains an oil seal and bearings. The distance from the upper end surface of the bearing to the upper end surface of the outer casing is 7.9 to 8.0 mm.





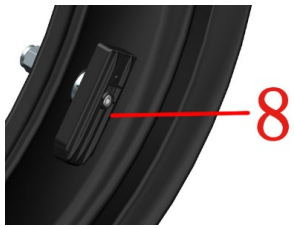


Fig.5 Rear wheel, swinging arm component		Rear wheel component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1251300-071000	Non standard nut M12×1.5（chromed）	5	110N.m
2	1230100-128000	160/60R17(CM63R)Rear tire(environmental/TL)	1	
3	1094200-012000	ZT310-R1 single side black rear wheel black (4.5×17)	1	
	1094200-033000	ZT310-X1 single rocker arm pearl white rear wheel (4.5×17)		
	1094200-032000	ZT310-X1 single rocker arm bright yellow rear wheel (4.5×17)		
	1094200-031000	ZT310-R1 single rocker arm jewel red rear wheel (4.5×17)		
4	1260100-238000	ZT310-R1 rear wheel sign spring	1	
5	1210142-000100	ZT310-R1 single rocker black rim sign	1	
	4044201-280002	ZT310-X1 single rocker wheel rim sign (pearl white)		
	4044201-279031	ZT310-X1 single rocker wheel rim sign (bright yellow)		
	4044201-278015	ZT310-R1 single rocker wheel rim sign (jewel red)		
6	1230200-006000	HJ100－D tire valve cap	1	Delphi EFI
7	1230100-047000	HJ125－3A environmental tubeless tire valve	1	
8		ZT310 tire pressure sensor	1	Bosch EFI

PROCEDURE:

●Rear wheel assembly

Remove the 5 nuts with a 200N torque wrench and a 19 gauge sleeve.

Support the vehicle horizontally and let the rear wheels leave the ground.

Remove the rear wheel assembly.

Extend the tool from the left to remove the rim sign (5) from the rim and remove the plaque spring (4) from the placard(5).

●Tire and rim assembly

Delphi EFI: Disassemble tire valve cap(6) . Deflate the tire with tools. Then disassemble the rear tire(1) with professional tire changing machine. Disassemble the tire valve(7) with suitable tool.

Bosch EFI: Unscrew the nut ① to release the air, unscrew the nut ②, and take out the flat gasket ③. Then use a professional tire puller to remove the rear tire (1). Finally, take out the sensor ④.

●Maintenance

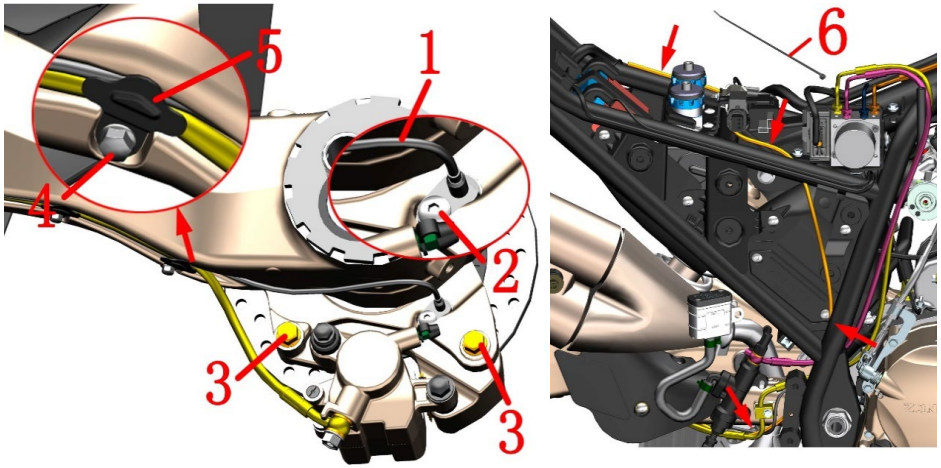
Tire: Check regularly the tire on cracks and air pressure.If the tire is ware to the marker, change the tire with same specification. See details in user manual. Ingradiant of tire include semi hot melt rubber. Area with too high temperature is not suitable. If temparature of outdoor is too low, storing the motorcycle in warm place or indoor is suggested in order to avoid frost crack. Normal temperaturestandard 250kPa.

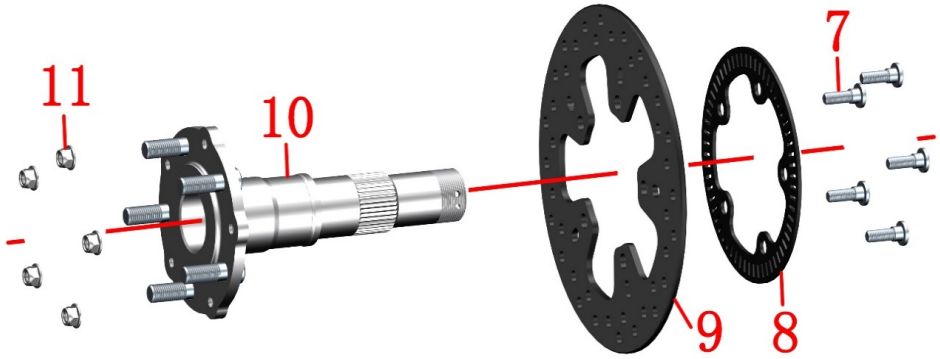
Rim: Check if the rim has deformation or crack. Support the rim horizontally and check if it can rotate smoothly.

Disc brake plate: Thickness can not be less than 4mm. If not, change it.

CAUTION:

●Only bike with Bosch EFI are equipped with standard (8) tire pressure sensors.





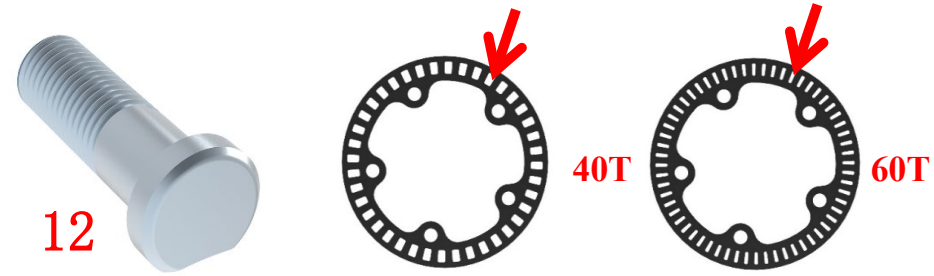


Fig.6 Rear wheel, swinging arm component		Rear axle assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1184200-045000	DF30 wheel speed sensor	1	
2	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	1	
3	1251100-123093	Non standard M8×25(color zinc)	2	
4	1250104-006097	GB16674M6×12（chromed/HH）	4	
5	1274200-119000	Single rocker rear flat fork tubing bracket	4	
6	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	4	
7	1251100-117093	Non standard hex socket bolt M8×25	5	
8	1274200-058000	ABS gear ring(60T)	1	
	1274200-168021	ABS gear ring(40T)		
9	1100100-419000	ZT310－R1 rear disc brake plate（230×4.5）	1	
10	4024200-048000	ZT310 single rocker rear axle assem（with bolts)	1	
11	1250305-002091	GB6187.1M8（white zinc）	5	
12	1251100-191000	Non standard bolt M12×1.5×38 (color zinc)	5	after-sale

PROCEDURE:

●Rear axle outer assembly

To remove only the rear axle assembly, simply remove the 2 bolts (3) and remove the caliper from the mounting plate. Remove the rear axle assembly.

To replace the rear fork, you need to continue with the following steps:

Remove the bolt (2) and remove the wheel speed sensor (1) from the rear disc brake caliper mounting plate.

Remove the 4 bolts (4) and remove the tubing bracket (5).

Cut the 4 straps (6) at the arrow indications, and find the inside of the left rear skirt and remove the joint of the rear slab adapter cable. Locate the wheel speed sensor connector near the right air filter and remove it, and remove the wheel speed sensor (1).

●Rear axle assembly

Fix the bolt (7) with a hexagon socket and then remove the nut (11) with a sleeve.

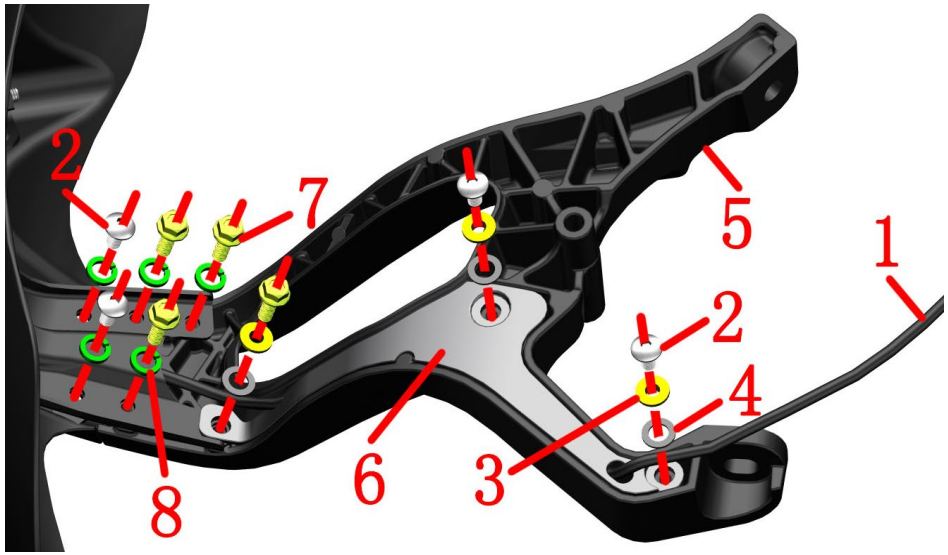
Remove the induction ring gear (8) and the disc brake disc (9) from the rear axle assembly (10).

The rear axle assembly (10) already includes the rear axle and 5 bolts (12). The bolts (12) and the single rocker rear axles have an interference fit. If the bolts are removed and replaced separately, the connection must be firm and reliable, otherwise it may loosen and cause accidents. The bolt heads of the early production models are round and can be replaced directly with the trimmed state of the later production.

CAUTION:

●The replacement of the bolts (12) separately must be secure and reliable.

●Some of the early production of the vehicle's induction ring gear is 40 teeth, which is clearly distinguishable from the 60-tooth.



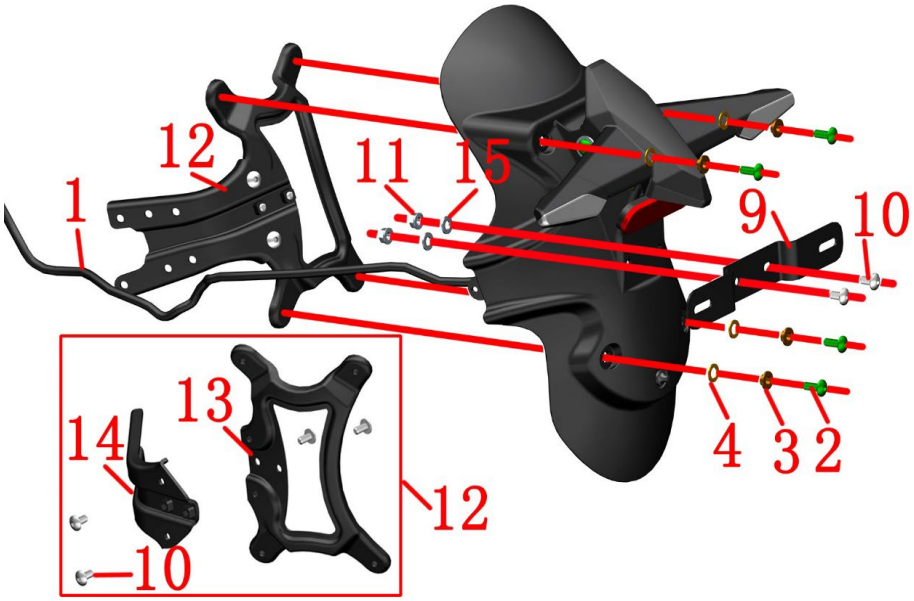


Fig.7 Rear wheel, swinging arm assembly		Rear sub-mud assembly 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1184200-030000	ZT310－R vice fender extension cable(L=2000)	1	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	8	
3	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	7	
4	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	7	
5	1020242-265021	ZT310-R1 rear sub-mud aluminum alloy bracket (homemade)	1	
6	1224200-106000	ZT310-R1 rear auxiliary mud board retaining plate	1	
7	1250105-137093	GB5789M6×16 (environmental color)	4	
8	1250501-007093	GB93φ8 (environmental color)	5	
9	1270300-039000	HJ125－6 Rear license bracket	1	
10	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
11	1250303-010093	GB6177.1M6（environmental color）	2	
12	4024200-026000	ZT310－R Rear vice fender plate iron bracket	1	
13	4024200-036000	ZT310-V rear auxiliary fender iron support rear section	1	after-sale
14	4024200-101000	ZT310 rear auxiliary fender iron support front section	1	
15	1250503-021093	GB97.1φ8 (environmental color)	2	

PROCEDURE:

●Retaining plate

Remove the bolts(2)and (7), remove the flange bushing (3) the rubber pad(4), and finally remove the retaining plate(6).

●Aluminum alloy bracket

Remove the 3 pcs of bolt(7) and 2 pcs of (2)， then remove 5 pcs of spring washer(8).

●Back license plate bracket assembly

Remove the bolt(10) and nut(11) at the license bracket(9) and remove the license bracket(9).

●Rear auxiliary mud plate iron bracket

Hold the rear turn signal assembly, remove the bolt(2), and remove the flange bushing(3) and rubber pad(4). Remove the rear sub-mud iron bracket(12)and rear turn signal assembly.

CAUTION:

●Do not pull the cable hard when removing the vice fender connecting cable.

●When reassembling, first check if there is any pressure on the wire to prevent short circuit when tightening the bolt.

●2 pcs GB97.1φ8 have been added to motorcycle manufactured by July 2021.Early production can add by yourself.

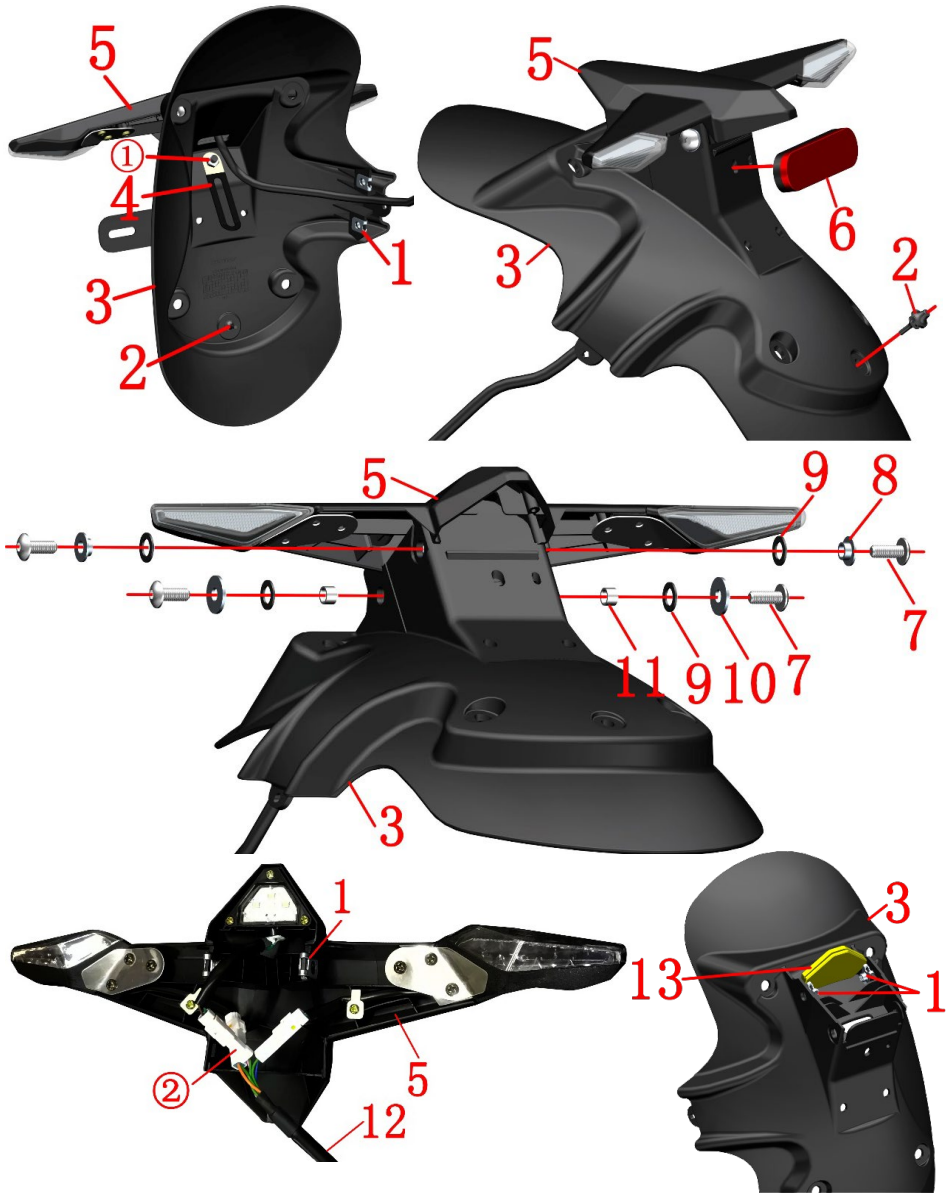


Fig.8 Rear wheel, swinging arm component		New rear sub-mud component 3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-063093	Plywood M6×11×15（environment color）	6	
2	1244100-006000	ZT250－SRear license plate buffer rubber	1	
3	1224200-091000	ZT310－RRear auxiliary mudguard fender（250R、310R/X/T）	1	
4	1270300-273000	φ8 Clip（L=73）	1	
5	1174200-035000	ZT310Rear turn signal (including license plate light）	1	
6	1174100-002000	ZT250－S Back reflector	1	
7	1251100-102000	Non-standard boltM6×16（304stainless steel）	4	
8	1274100-057095	Flanging bushingφ6.2×φ8.4×3.5＋φ14×1.5	2	
9	1244100-052000	Flange bushing cushion rubber（φ8.5×φ14×1）	4	
10	1250502-010093	GB96.1φ6（environment color）	2	
11	1274100-018000	ZT250－S Muffler anti-scalding bushing	2	
12	1184200-030000	ZT310－R Rear vice fender extension cable(L=2000)	1	
13	1244200-082000	ZT310 Rear auxiliary mud board retaining rubber plug	1	

PROCEDURE:

●Back reflector, license plate cushion rubber

Flip to the back, remove the nut① that comes with the rear reflector(6), remove the clamp(4) and the back reflector. Remove the plate cushion rubber(2) and remove the 2 plywood nuts(1) on the back of the rear mudguard fender(3).

●Steering lights, fender sub-assemblies

Remove the bolts(7)on the left and right sides, and remove the flange bushing (8), cushion rubber(9), anti-scalding bushing (11) and gasket(10). Disassemble the turn signal and fender subassembly. Note that the sub-mud switch cable(12)cannot be forcibly pulled.

●fender sub-assembly

Remove the 2 plywood nuts(1) and retaining rubber plug(13) from the fender subassembly(3).

●turn signal subassembly

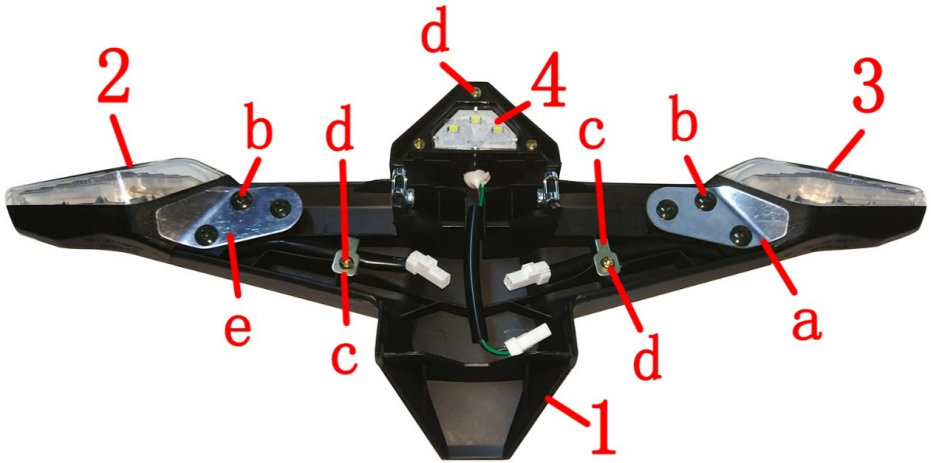
Remove the 2 plywood nuts(1) from the turn signal(5). Remove the 3 joints of② and remove the sub-mud switch cable(12).

CAUTION:

●Do not pull the cable hard when removing the sub-mud switch.

●When reassembling, check if there is any pressure on the wire to prevent it from tightening.

Short circuit caused by bolts. Pay attention to the lamp connector, do not insert the wrong, turn left Green + orange; right turn signal is green + blue; license plate light is green + pink.



ZT310－X Rear left turn signal

ZT310－X Rear right turn signal

Fig.9 Rear wheel, swinging arm component		Rear turning light parts for after sales service	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-120000	ZT310 Rear turn signal bracket	1	
2	1174200-019000	ZT310－X Rear left turn signal	1	
3	1174200-020000	ZT310－X Rear right turn signal	1	
4	1174200-021000	ZT310－X License Plate Light	1	

PROCEDURE:

●Rear license light

Grip the rear turning light bracket(1) then disassemble three bolts "d" on the license light(4).

●Rear turning signal

Disassemble bolts three "b" and one"d" on the diagram left side, and then remove left press line plank of "e" and press line plank "c",Remove the left turn signal(2) ;follow the steps above to remove right press line plank of "a" and press line plank "c". and remove the right turn signal(3).

CAUTION:

●while reassembling,check there is any pressure on the cable,in case of causing short circuit when tighten the bolt.

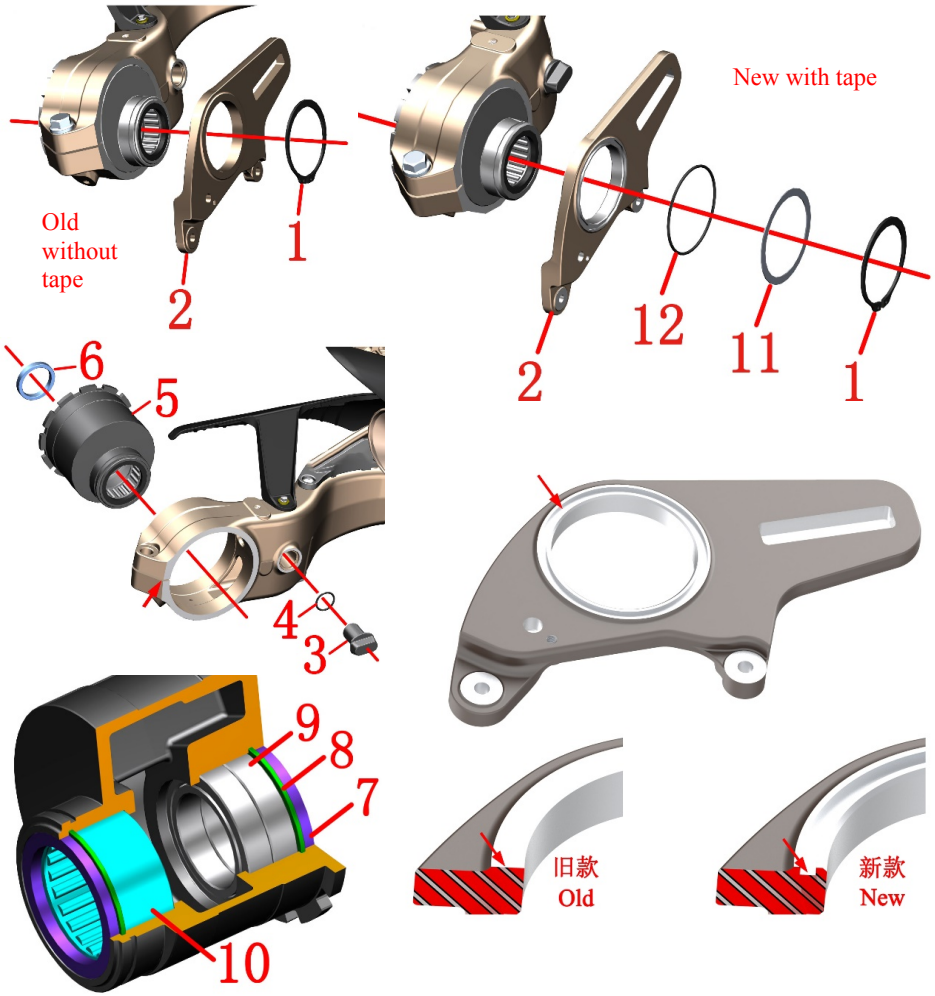


Fig.10 Rear wheel, swinging arm component		Chain adjuster assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250700-009000	Shaft type A circlip φ75×2.5	1	
2	1032142-070000	Single rocker rear disc brake mounting plate	1	
	4024200-070051	Single rocker rear disc brake mounting plate (matte dark gray)		
3	1274200-095000	Single rocker rear disc brake mounting plate limit block	1	
	1100100-732051	Single rocker rear disc brake mounting plate limit block (matte dark gray)		
4	1244200-066000	O-ring seal (φ22.2×2.4)	1	
5	4024200-046000	Single rocker eccentric chain adjuster assembly	1	
6	1274100-104000	Bushing Φ50×Φ40×7.5	1	
7	1244200-044000	ZT310 single rocker arm Φ50×Φ62×5 oil seal	2	Eccentric chain adjuster assembly after sale
8	1250700-008000	Hole type A circlip φ62×2	2	
9	1250601-094000	GBT 276-61908-2RS/P6 deep groove ball bearing	2	
10	1250602-034000	NK50/25 needle roller bearing	1	
11	1251500-096000	φ90×φ76×1 washer	1	
12	1244200-105000	O-ring φ80×2.65 (inner diameter×wire diameter)	1	

PROCEDURE:

●Disc brake mounting plate

The old shaft used circlip plier to remove the retaining ring (1); remove the disc brake mounting plate (2). For the new model, first remove the retaining ring (1) with a shaft and a circlip plier; then remove the washer (11) and O-ring (12); and finally remove the disc brake mounting plate (2).

Take the lower limit block(3)) and remove the seal ring(4).

●Chain adjuster assembly

After removing the bushing(6) remove the chain adjuster assembly(5) from the rear fork. If you have difficulty removing it, you can use a flat-blade screwdriver to insert the slot at the arrow indication, and you can open it with a little force.

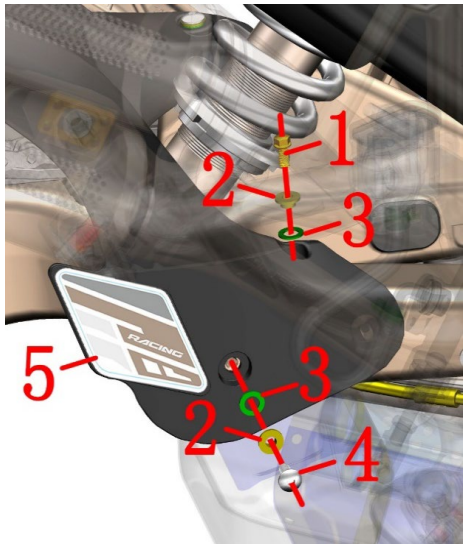
After removing the bushing(6), remove the chain adjuster assembly(5) from the rear fork. If you have difficulty removing it, you can use a flat-blade screwdriver to insert the slot at the arrow indication, and you can open it with a little force.

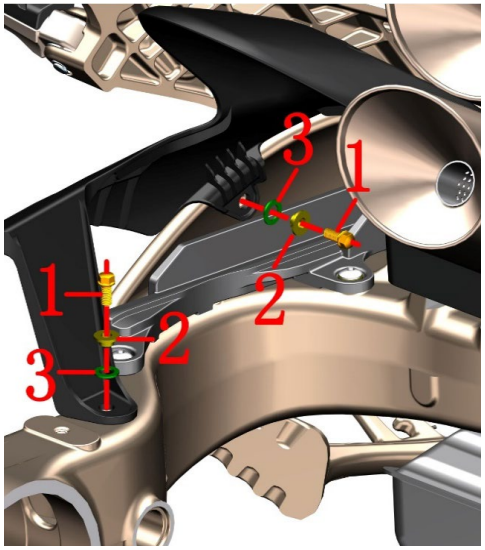
●Chain adjuster assembly bearing maintenance

It is recommended to inspect, maintain and clean the bearings every 6,000 km. After removing the chain adjuster assembly according to the previous steps, clean the bearings inside with gasoline or diesel. Carefully check the bearings for damage, smooth rotation, and noise. After confirming the pass, wipe it with a clean, lint-free cloth and re-apply the grease evenly on the bearing.

CAUTION:

●If you need to replace the chain adjuster, please first determine whether your motorcycle is new or old version. The new disc brake mounting plate has one more groove than the old disc brake mounting plate. If the old model replaces the chain adjuster, then you also need to buy the new disc brake mounting plate (2), washer (11), O-ring (12),Otherwise it will cause abnormal noise. If it is a new replacement chain adjuster, just buy the chain adjuster. The new and old disc brake mounting plates are same.





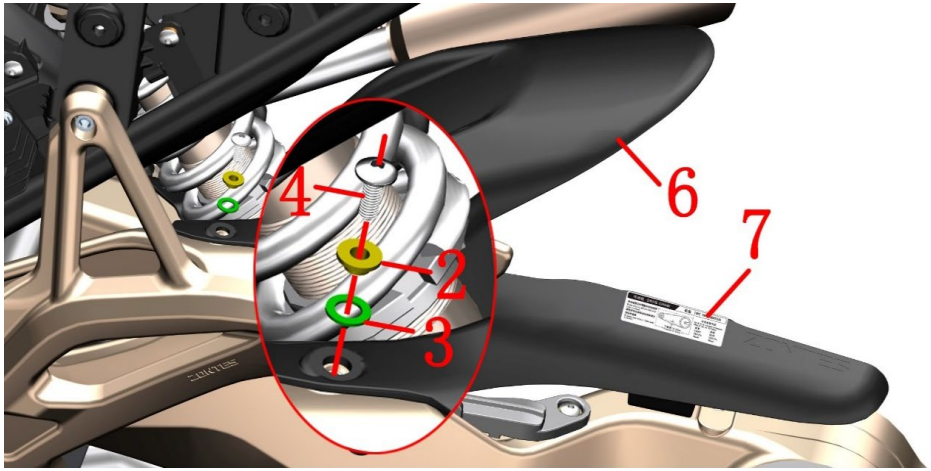


Fig.10 Rear wheel, swinging arm component		Rear mud board	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250104-006097	GB16674M6×12（chromed/HH）	3	
2	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	5	
3	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	5	
4	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
5	1210342-424000	ZT310 rear mud board decal (RACING)	1	
6	1224200-103000	ZT310-R1 rear mud board	1	
7	1210342-449000	ZT310-X1 chain decal	1	

PROCEDURE:

●Rear mud board

Remove the bolt (1) from the gap above the front right side of the rear mud plate and remove the bushing (2) and the cushion rubber (3).

Remove the bolt (4) on the right side and remove the bushing (2) and cushion rubber (3).

Remove the bolt (1) on the inside of the left inner side and remove the bushing (2) and the cushion rubber (3).

Remove the bolt (1) at the rear left side and remove the bushing (2) and cushion rubber (3).

Hold the inner mud plate (6), remove the bolt (4) above the front left side, and remove the bushing (2) and the cushion rubber (3).

The applique (5) and the chain decal (7) can be heated back and forth by a hot air gun, and the applique is torn off from the inner mud plate after the heat viscosity is lowered.

CAUTION:

●When heating and tearing the applique, be careful not to align the same part for a long time to prevent damage to the inner mud board.

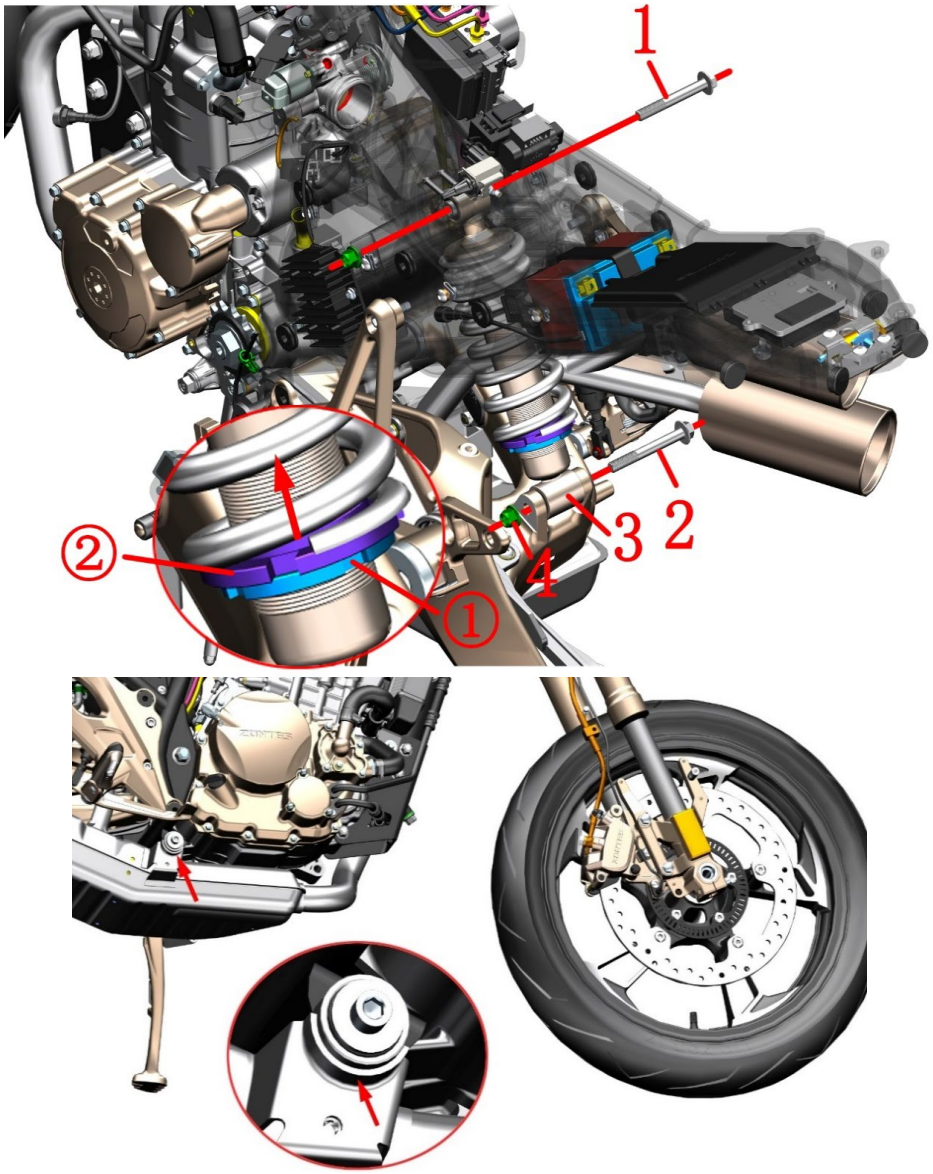


Fig.12 Rear wheel, swinging arm component		Rear shock absorber	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-085093	Non-standard bolt M10×1.5×75（Dacro）	1	
2	1251100-132003	Non-standard bolt M10×1.5×80（Dacro）	1	
3	1114200-033000	ZT310－R Rear shock absorber	1	
4	1251300-057093	Non-standard bolt M10×1.5（Dacro）	2	

PROCEDURE:

●Rear shock absorber

After the side bracket is lowered, one person's left hand will kill the direction to the left while the right hand grips and the foot pedals to tilt the vehicle to the left; the other person uses a wooden bench to press the muffler installation point on the right side of the vehicle (as shown in the lower left figure) to support the vehicle. The wheel is slightly off the ground. After the vehicle is supported, one person uses the sleeve to hold the heads of the bolts (1)and (2) respectively, and one person removes the nut (4) with a sleeve.

Person 1 shakes the rear wheel up and down slightly . Person 2 drags out bolt(2).

Person 1 holds the motorcyclefirmly . Person 2 lifts the rear shock absorber(3) towards the arrow direction and drag out bolt(1). Take off the rear absorber at last.

●Adjust the rear absorber

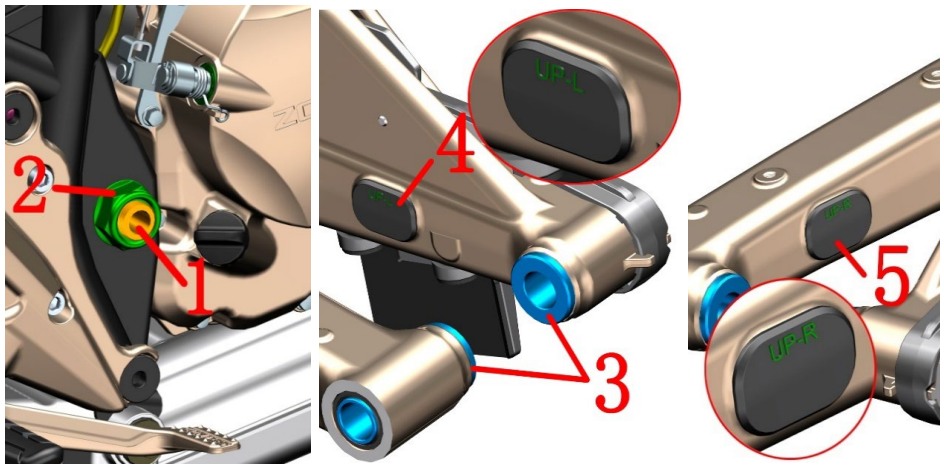
Use hook wrench to loosen adjustable nut① and rotate adjustable nut②. If the nut is rotated towards the arrow direction, the spring becomes harder. Conversly, the absorber is softer. Tighten the adjustive nut① until the absorber is under suitable status. Please adjust in a reasonable range, riding experience would be influenced by either the absorber is too soft or too hard.

CAUTION:

●Disassemble cushion,side cover,right side cover, bolts on front parts of rear skirt and rear inner fender.

●Use suitable tool to support the motorcycle. Avoid accidents caused by falling down. Single person operate it is prohibited.

●All the standard parts need to reach standard torque while reassembling.



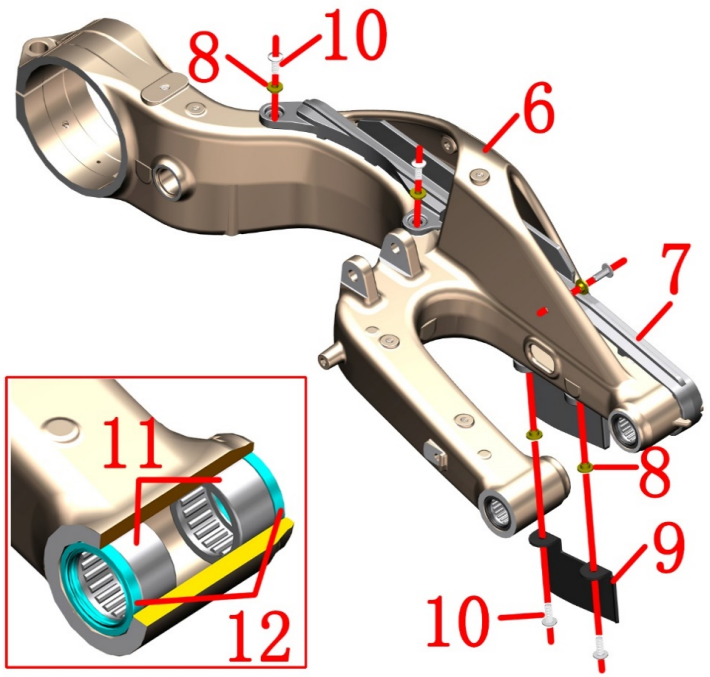


Fig.13 Rear wheel, swinging arm component		Rear wheel assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1252200-040000	ZT310-R1 rear flat fork hollow shaft	1	
2	1251300-067000	ZT250－R rear wheel axle nut	1	
3	1274100-102000	Single rocker rear fork bushing	2	
4	1244200-086000	ZT310 single rocker arm aluminum alloy flat fork left dustproof rubber plug	1	
5	1244200-085000	ZT310 single rocker arm aluminum alloy flat fork right dustproof rubber plug	1	
6	4024200-045000	ZT310 single rocker arm aluminum alloy rear fork assembly (including bearing / oil seal)	1	
	4074200-003051	ZT310 Dark gray single rocker arm aluminum alloy rear fork assembly (including bearing / oil seal)		
7	1244200-055000	ZT310 single arm rear fork wear block	1	
8	1274100-057095	Bush φ6.2×φ8.4×3.5＋φ14×1.5	5	
9	1274200-127000	Single arm rear fork anti-wear block fixing bracket	1	
10	1251100-102000	Non-standard Bolt M6×16（SS）	5	
11	1250602-035000	HK2516 needle roller bearing	4	Rear fork assembly after sale
12	1244200-079000	ZT310 single rocker arm Φ25×Φ32×4 oil seal	4	

PROCEDURE:

●Rear swinging arm assembly

Person 1 hold the head of rear swinging arm axle(1) with socket sleeve. Person 2 disassemble nut(2) with socket sleeve. Person 1 hold the rear swinging arm assembly. Person 2 take off rear swinging arm after disassembling rear swinging arm axle(1) with suitable tool.

Remove the bushing(3), the left dust-proof rubber plug(4), and the dust-proof rubber plug(5) from the rear fork assembly.

●Abrasionproof block of rear swinging arm

Remove the five bolts (10)and the flange bushing(8)with the hexagon socket tool and remove the fixing bracket (9)and the wear-resistant block (7)from the rear fork assembly(6).

●Rear fork after sale

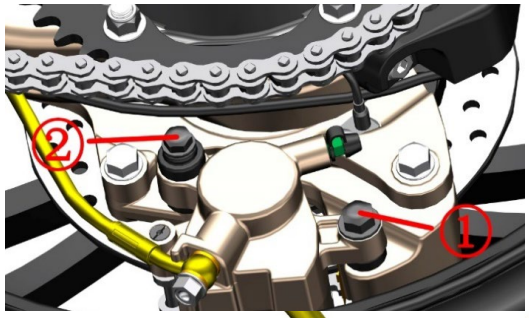
The oil seal(12) and the needle bearing (11) are used for interference compression. Please ensure that they have the ability to disassemble and disassemble.

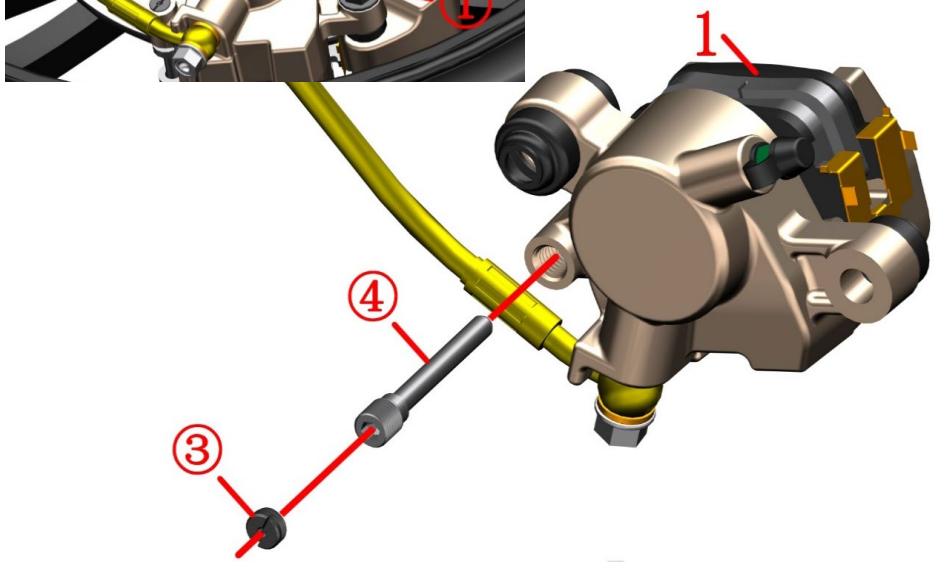
CAUTION:

●Use suitable tool to support the motorcycle. Avoid accidents caused by falling motorcycle. Single person manipulation is prohibited.All the standard parts need to reach standard torque while reassembling.

●Using iron hammer to punch rear wheel axle, disc brake clamp assembly is prohibitd.

●The left dust-proof rubber plug is stamped with "UP-L", and the right dust-proof rubber plug has "UP-R"; pay attention to the installation direction.





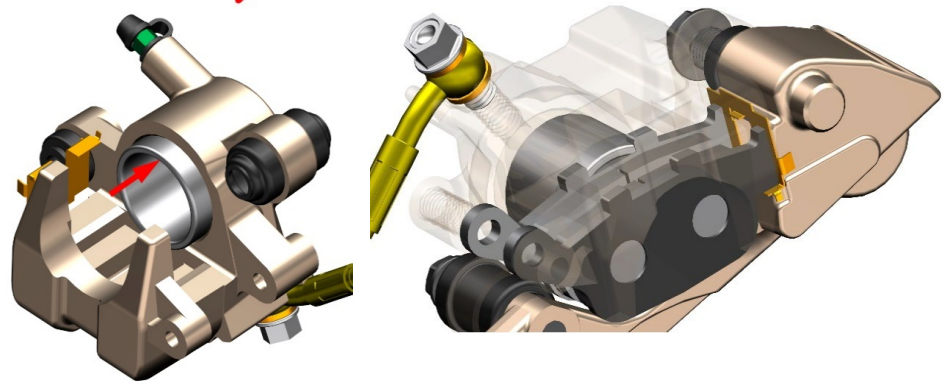


Fig.14 Rear wheel, swinging arm assembly		Change rear brake arresters	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1100100-092000	ZT250－S rear disc brake arrester(HS10)	1	

PROCEDURE:

●Disassemble disc brake arrester

Loosen the upper slide shaft① with a 14 mm sleeve.

Loosen the lower slide shaft② with a 12mm wrench.

Remove the slide shaft and remove the rear brake caliper.

Use strait screwdriver to disassemble nut③.

Tighten the pin axle④ with 5mm hex socket tool.

Take off rear disc brake arrester(1).

●Change rear disc brake arrester

Put the piston of clamp towards the direction of arrow to the end. See photo left below. To reduce resistance, you can disassemble the cross bolt on rear disc brake main pump oil cup. Take off the top cover and sealing gasket. Remember to rebound the pister afterwards.

The new arrester must fit tightly the slot. See photo right below.

Tighten the pin axle④ with 5mm hex socket tool.

Tighten nut③ with strait screwdriver.

Tighten the pin axle① with 14mm hex socket tool.Torque is 34N.m.

Use a 12mm wrench to lock the lower slide shaft ②.

Step on braking pedal several times until braking force is recovered.

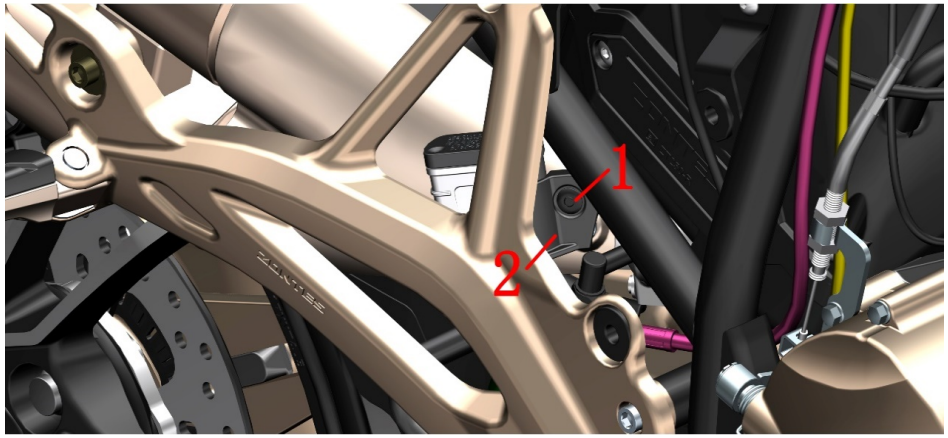
CAUTION:

●Check regularly the arrester and disc brake plate status.

●To change arresters in qualified mainenance spot are suggested.

●After changing the arrester, adjust the height of braking pedal according to "Foot pedal, gear shift rod assembly" if necessary.

●It needs running-in for about 300km after changing new arresters. During this period, leave enough braking distance while riging.



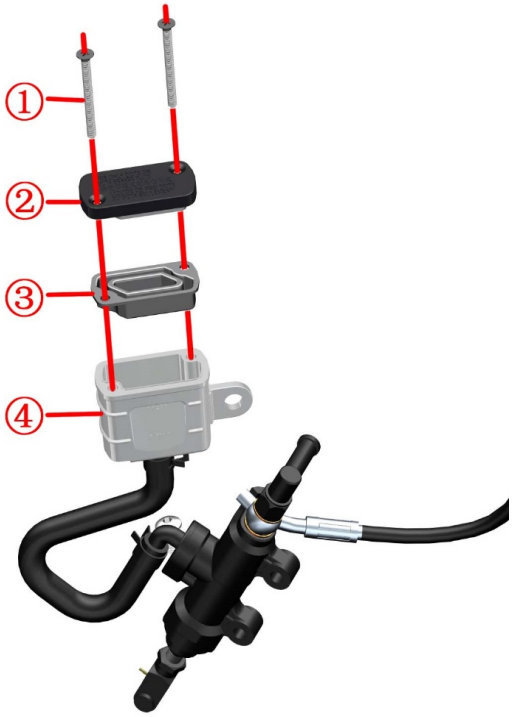


Fig.15 Rear wheel, swinging arm assembly		Rear disc brake main pump adding braking liquid	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250－S swell nail	1	
2	1224200-055000	ZT310－R rear disc brake oil cup holder	1	

PROCEDURE:

●Add disc brake liquid

Press down the middle part of expanding bolt(1) with a small cross screwdriver. Take off the expanding bolt.

Pull out the oil cup④; Should always remain above the oil tube interface, parallel to the ground. Avoid braking failure caused by air getting into the oil circulation. Disassemble bolt① with cross screwdriver.

Take off oil cup cap②, sealing gasket③.

Keep the top of oil cup④ parallel to the ground. Add DOT4 braking liquid. Ensure the liquid level is between "UPPER" and "LOWER".

While reassemble, pay attention install sealing gasket③ in correct position and direction.

Step gently on the pedal constantly. Do not ride the motorcycle until the braking force is recovered.

CAUTION:

●Support the motorcycle well on flat ground before checking.

●Check regularly if the braking liquid surface is between "UPPER" and "LOWER".

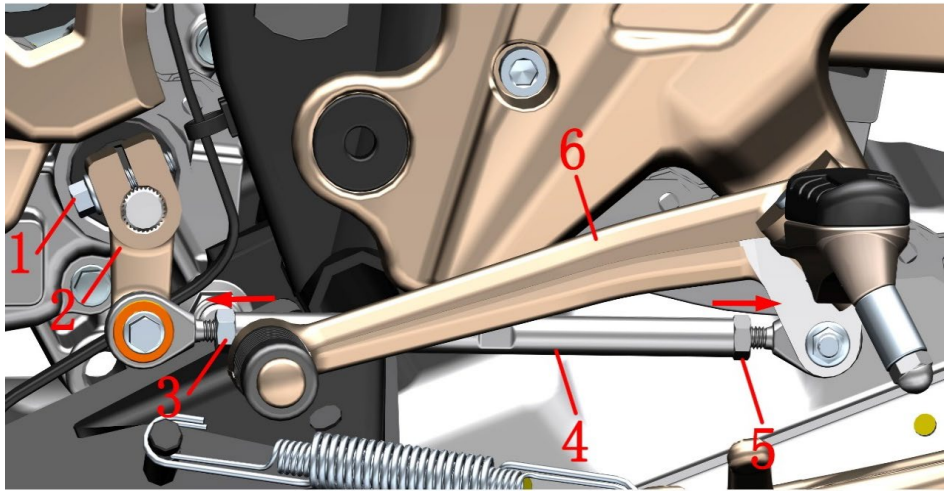
●If liquid surface is below "LOWER", check the arrester status and confirm if the braking system is leaking.

●If the braking liquid is accidently swallowed, contact intoxication center or hospital immediately. If it gets into the eye, wash it away with clean water then see the doctor.

●Keep the braking liquid far away from children and pets.

●Flush the oil cup directly with high pressure water is prohibited.

●Mixing water, dust, impurity and liquid of silicic acid or petrol series into the braking liquid is prohibited. Otherwise, the braking system would be damaged.



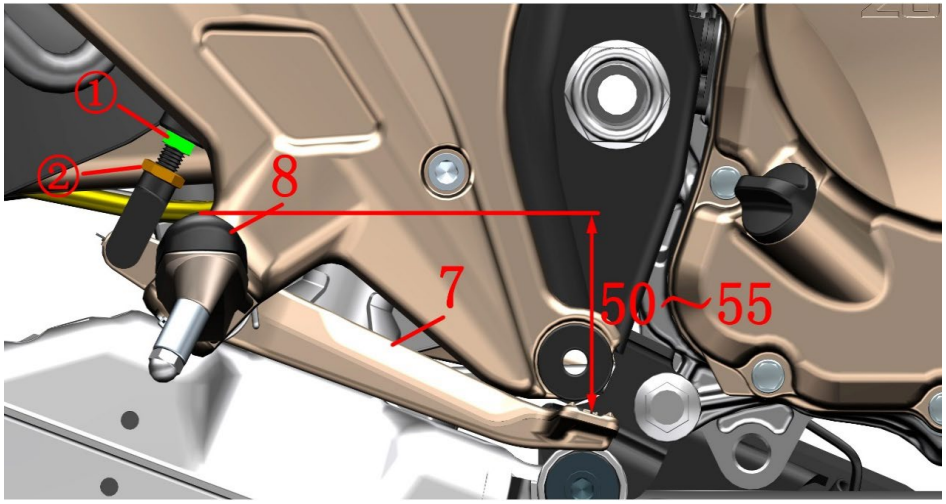


Fig.1 FOOT PEDAL COMPONENT		Adjust the hight of foot pedal	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Hexagon flange bolt 8.8 degree	1	
2	1274100-039000	ZT250－S Gear swift rod spline of Rocker arm	1	
	1271200-163000	ZT250－S Gear swift rod spline of Rocker arm (dark gray)		
3	1250301-020093	GB6170M6（environmental color-zinc）	1	
4	1274200-003000	ZT310－R Gear shift rod adjustment bolt φ10×130	1	
5	1250301-018093	GB6170M6－LH（environmental color-zinc）	1	
6	1274200-160000	ZT310－T rocker arm, gear shift rod	1	
	1271200-162000	ZT310－T rocker arm, gear shift rod (dark gray)		
7	1274200-010000	ZT310－R brake pedal	1	
	1274200-300051	ZT310－R brake pedal (dark gray)		
8	1274200-185000	ZT310－X R, front pedal component (improved)	1	
	1271200-157000	ZT310－X R, front pedal component (dark gray)		

PROCEDURE:

●Adjust the height of gear shift rod

Follow the direction of arrow and loosen Nut(3), Nut(5) with an open spanner.Use 8# open spanner to adjust the gear shift rod adjustment bolt until the height becomes suitable. Then tighten the nuts. If the above-mentioned method can not adjust the gear shift rod to a satisfying position, take off bolt(1) and adjust gear shift rod spline of rocker arm(2) with a straight screwdriver by shoving a little bit the groove in the middle while dragging it out. Reassemble after the height is suitable. Pay attention to the aligning of the groove in the middle.

●Adjust the height of brake pedal

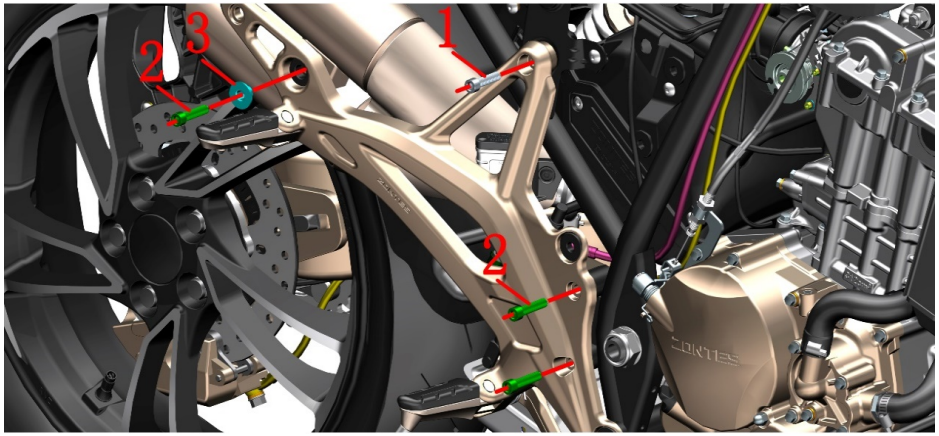
Follow the direction of arrow and loosen Nut②. Spin the adjustment rod bolt① and adjust the brake pedal(7) to 50~55mm below the top part(8). Fix the adjustment rod bolt① and tighten Nut②.

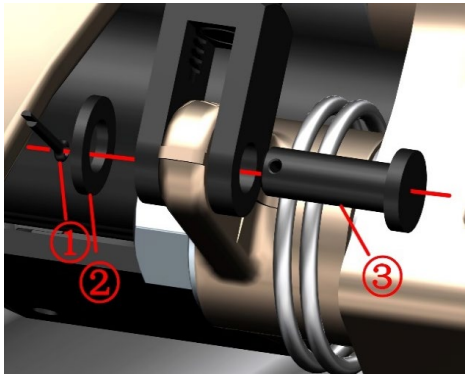
CAUTION:

●Ensure the motorcycle is well supported during manipulation. Avoid falling accident.

●The height of gear shift rod should be ajusted to a suitable range. Otherwise the riding experience would be influenced.

●The height of brake pedal should be ajusted to a suitable range. Otherwise the durance of braking shoe and plate would be influenced. In severe case, ineffective braking is possible.





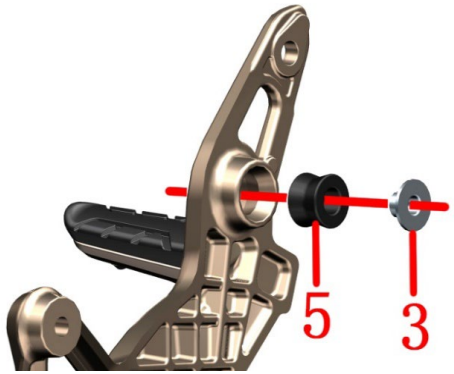


Fig.2 FOOT PEDAL COMPONENT		Right foot pedal holder assmebly-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-034093	GB70.1 Hex socket M8×30(environmental color-zinc)	1	
2	1250205-023000	GB70.1 Hex socket M8×35(environmental color-zinc)	3	
3	1274100-068095	ZT310 Muffler bush	2	
4	1224100-010000	ZT250－S swell nail	1	
5	1244100-064000	ZT310 Muffler gum cushion	1	

PROCEDURE:

●Right Foot pedal component

Use a plier to disassemble the pin①. Then take off the washer② and pin③.

Fix the position of rear part of muffler and disassemble the bolt(2) behind the foot pedal holder and take off the bush(3).

Take off the bolts(1) & (2) in the front.

Overturn and take off the bush(3) and gum cushion(5).

Disassmble the expanding bolt(4).

CAUTION:

●While overturning the foot pedal holder, keep the components nearby well protected in case they are scratched.

●Mind the disc brake oil tube while overturning the holder.

●Support the motorcycle properly while disassembling in case it falls down.

●Rear disc brake oil cup can not be lower than oil tube interface of main pump.

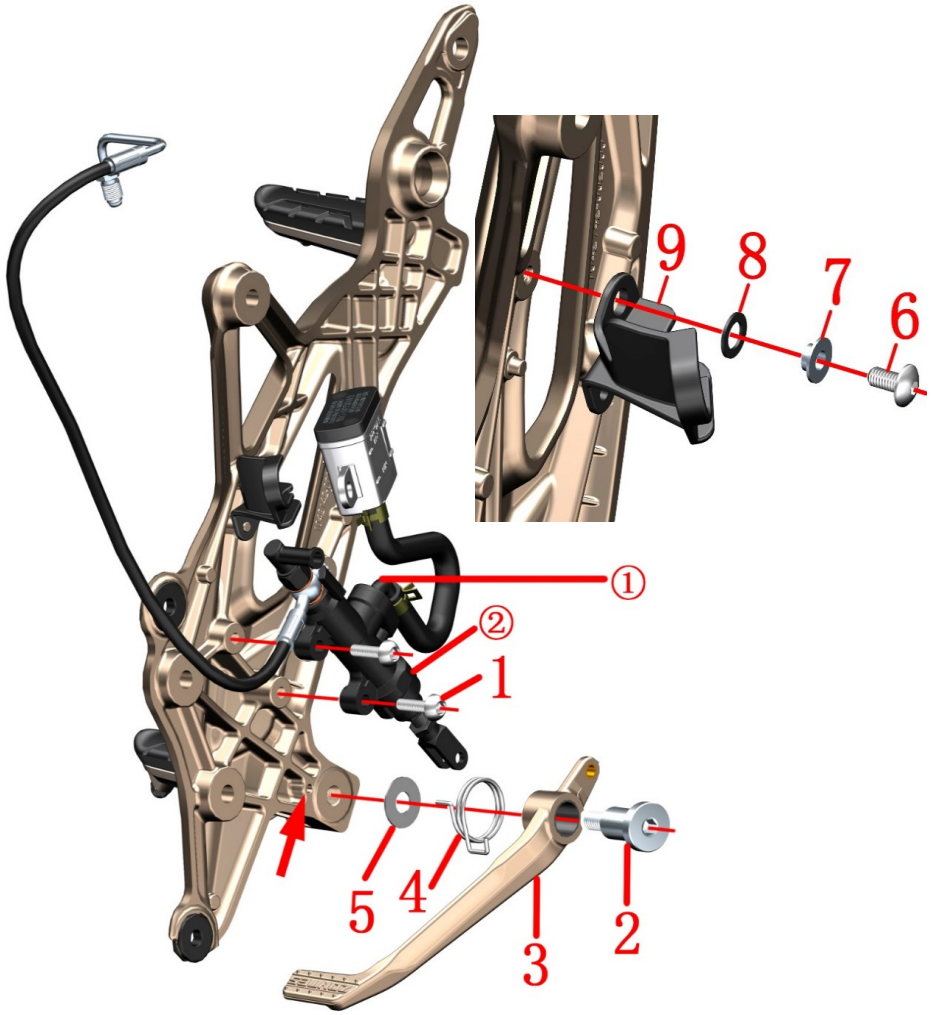


Fig.3 FOOT PEDAL COMPONENT		Right foot pedal holder assmebly-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-121093	Non standard bolt M6×25（environmental color-zinc）	2	
2	1251100-131000	Non standard bolt M10×1.5×36	1	
3	1274200-010000	ZT310－R brake pedal	1	
	1274200-300051	ZT310－R brake pedal (dark gray)		
4	1260100-119093	ZT310－R brake pedal spring	1	
5	1251500-060095	Non standard washer φ10.5×φ26×1	1	
6	1251100-101000	Non-standard bolt M6×12（304 stainless steel）	1	
7	1274100-057095	Bush φ6.2×φ8.4×3.5＋φ14×1.5	1	
8	1244100-052000	Gum cushion, bush（φ8.5×φ14×1）	1	
9	1224200-055000	ZT310-R rear disc brake oil cup holder	1	

PROCEDURE:

●Rear disc brake pump assembly

Disassmble bolt(1); Rear disc brake oil cup can never be lower than oil tube interface① of main pump②.

●Brake pedal assembly

Disassemble bolt(2); pull out brake pedal(3); take off brake pedal spring(4) & washer(5).

●Rear disc brake oil cup holder

Disassemble bolt(6)，take off bush(7)、gum cushion,bush(8)、oil cup holder(9).

CAUTION:

●Applying lubrification on inner surface of brake pedal bush can reduce resistance on brake pedal.

●While reassembling, remember to insert the spring into spacing hole of foot pedal holder.

●Support the motorcycle properly while disassembling in case it falls down.

●Place properly the disc brake oil cup and main pump. Avoid the air on top of oil cup getting into the tubes of disc brake.

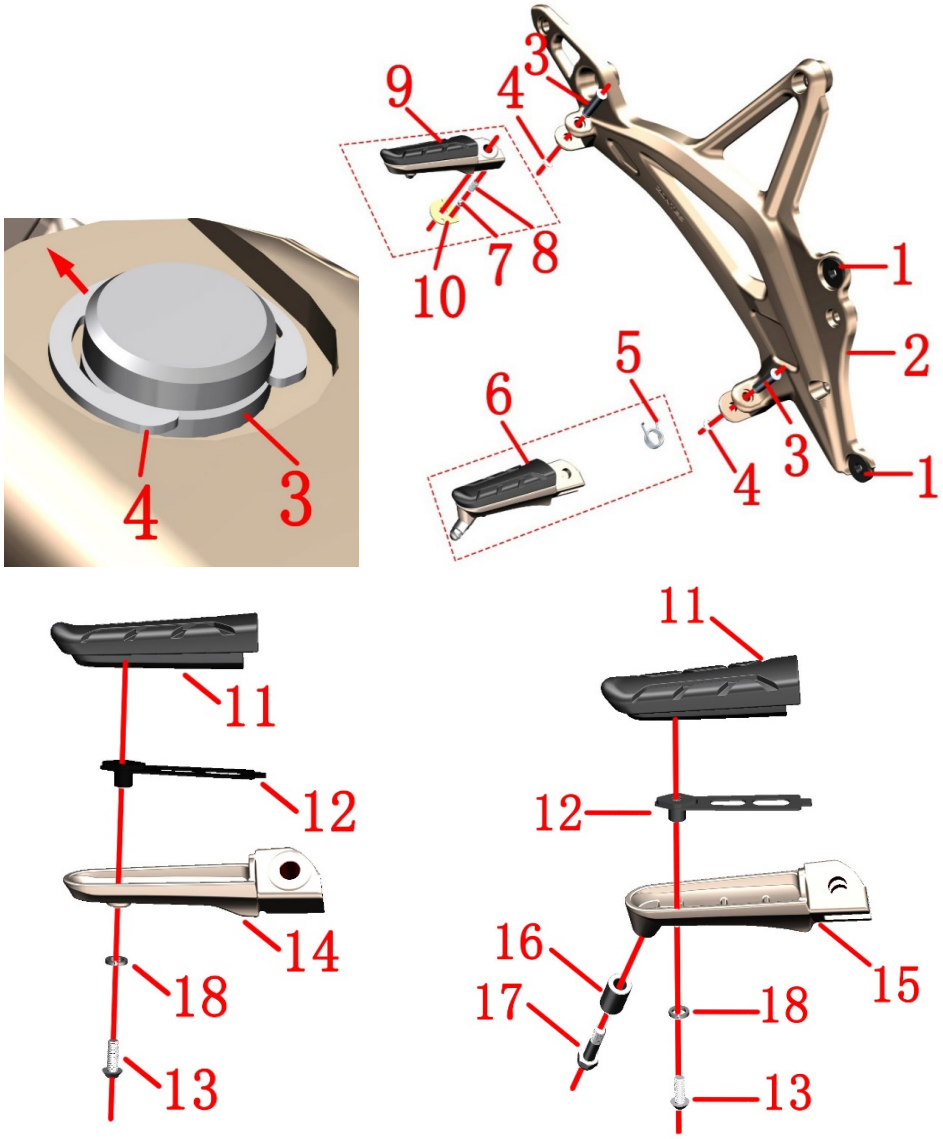


Fig.4 FOOT PEDAL COMPONENT		Right foot pedal holder assmebly-3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-002000	ZT250－S side cover round gum cushion	2	
2		R, foot pedal holder	1	
3		Foot pedal pin axle	2	
4	1264100-006000	ZT250－S foot pedal spring	2	
5	1264100-004000	ZT250－S R, front pedal spring	1	
6		R, front pedal component	1	
7	1274100-010000	ZT250－S Rear pedal steel ball	1	
8	1264100-005000	ZT250－S Pedal steel ball spring	1	
9		R, rear pedal component	1	
10	1270300-272000	KD250－F Rear pedal positioning plate	1	
11	1244200-024000	ZT310－X Foot pedal rubber	2	After sales parts
12	1274200-051000	ZT310－X Foot pedal rubber positioning plate	2	
13	1250205-038000	GB70.2M5×12（stainless steel）	2	
14		ZT310－X R, front pedal	1	
15		ZT310－X R, rear pedal	1	
16	1274200-254093	BushingΦ12×Φ6×19(environmental color)	1	
17	1251100-224000	Non standard ball head bolt M6×26	1	
18	1250501-010000	GB93φ6 spring washer	2	

PROCEDURE:

●R, front pedal

Disassemble circlip(4). Take off foot pedal pin axle(3). Then disassemble R, front pedal(6), foot pedal spring(5).

●R, rear pedal

Disassemble circlip(4). Take off foot pedal pin axle(3). Then pull out R, rear pedal(9).Take down positioning plate(10), steel ball(7), spring(8).

●Foot pedal holder

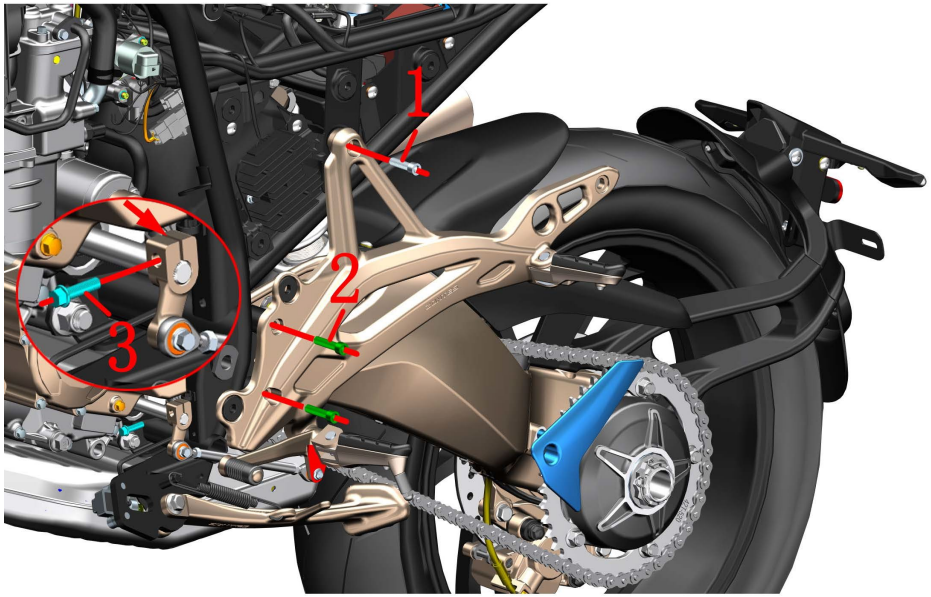
Disassemble side cover round gum cushion(1).

●After sales parts for new pedal with rubber

Hold tightly the R,front pedal(15). Disassemble bolt(17) take off thebushing(16) . Disassemble bolt(13) take off spring washer(18),take off rubber(11), positioning plate(12). Foot pedal rubber(11), positioning plate(12), bolt(13)， spring washer(18) are in common use.Each part use 1 piece for after sales purpose.

Hold tightly the R,rear pedal(14),disassemble bolt(13)take off spring washer(18) ,take off rubber(11), positioning plate (12).

Note: Since March 2020, the front and rear right pedals need to be added with a spring washer(18) .



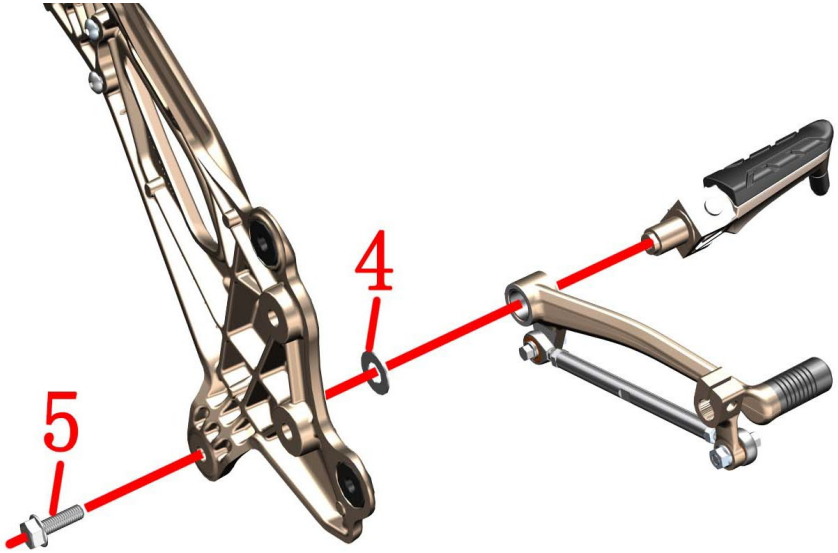


Fig.5 FOOT PEDAL COMPONENT		L, foot pedal holder component-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-034093	GB70.1 Hex socket M8×30(environmental color-zinc）	1	
2	1250205-023000	GB70.1 Hex socket M8×35(environmental color-zinc）	2	
3	1251100-061093	M6×22Hexagon flange bolt 8.8 degree	1	
4		Foot pedal holder washer	1	
5	1251100-123093	Non-standard bolt M8×25(environmental color-zinc）	1	Old
	1250105-278093	GB5789 M10×1.25×25(10.9/environmental color-zinc)		New

PROCEDURE:

●L, foot pedal holder assembly

Disassemble bolt(3) with ring spanner.Insert strait screwdriver into slot① and open a little bit the spline rocker arm while pulling it out from gear shift axle of engine.

Disassemble bolt(1), bolt(2)with hex socket tool. Take off left foot pedal holder assembly.

●Gear shift rod assembly

Disassemble bolt(5). Separate left foot pedal component and gear shift rod assembly from left foot pedal holder assembly. Take off foot pedal holder washer(4).

CAUTION:

●Support the motorcycle properly while disassembling in case it falls down.

●Pay attention to the alignment of foot pedal holder washer and the lug boss while reassembling.

●Applying lubrification to the surface of cylinder of foot pedal holder can reduce resistance on gear shift rod.

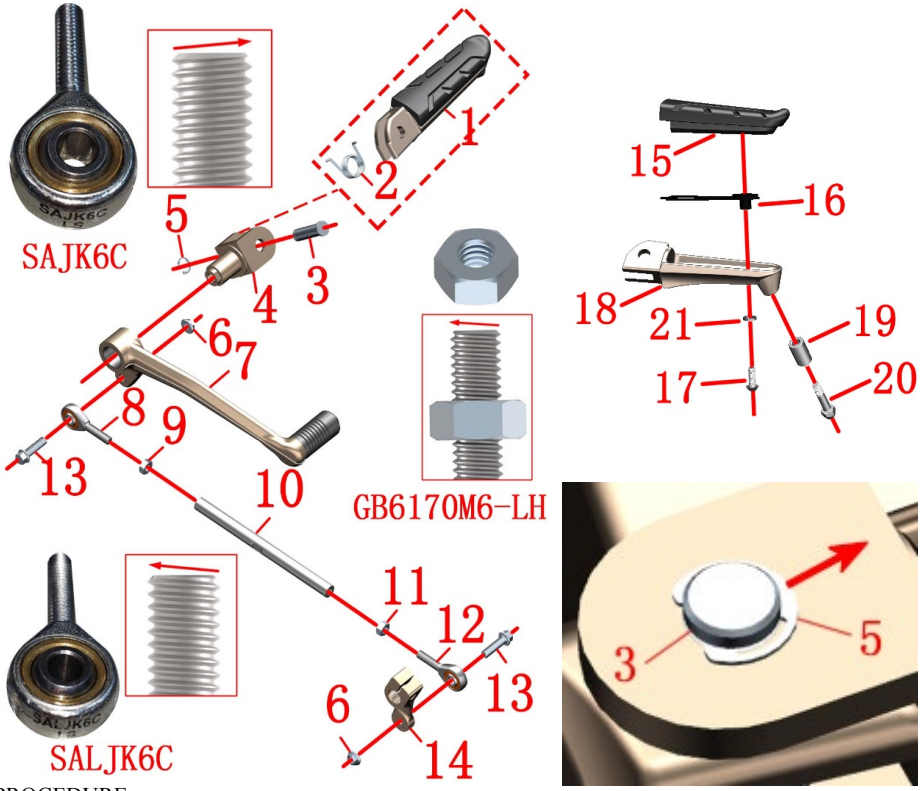


Fig.6 FOOT PEDAL COMPONENT		L, foot pedal holder component-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		L, front pedal component	1	
2	1264100-003000	ZT250－S L, front pedal spring	1	
3	1274100-012000	ZT250－S Pedal axis pin	1	
4		Foot pedal holder	1	
5	1264100-006000	ZT250－S Foot pedal circlip	1	
6	1250303-010093	GB6177.1M6（environmental color-zinc）	2	
7		ZT310－T Gear swift rod rocker arm	1	
8	1274100-043000	Knuckle Bearing SALJK6C	1	
9	1250301-018093	GB6170M6－LH（environmental color-zinc）	1	
10	1274200-003000	ZT310－R Gear shift rod adjusting bolt φ10×130	1	
11	1250301-020093	GB6170M6（environmental color-zinc）	1	
12	1274100-042000	Knuckle Bearing SAJK6C	1	
13	1251100-061093	M6×22 Hexagone flange bolt 8.8 degree	2	
14		ZT250－S Gear shift rod spline rocker arm	1	
15	1244200-024000	ZT310－X Foot pedal rubber	1	After sales parts
16	1274200-051000	ZT310－X Foot pedal rubber positioning plate	1	
17	1250205-038000	GB70.2M5×12（Stainless steel）	1	
18		ZT310－X L, front pedal	1	
19	1274200-254093	BushingΦ12×Φ6×19(environmental color)	1	
20	1251100-224000	Non standard ball head bolt M6×26	1	
21	1250501-010000	GB93φ6 spring washer	1	

PROCEDURE:

●L, Foot pedal component

Disassemble circlip(5). Take off foot pedal pin axle(3). Take off L, foot pedal(1), foot pedal spring(2) from foot pedal holder(4).

●Gear shift rod assembly

Disassemble on both sides nut(6) and bolt(13) with ring spanner.Disassemble gear shift rod rocker arm(7), spline rocker arm(14). Loosen nut(9)&(11) with open spanner. Take off adjusting rod(10). Separate bearing (8)&(12).

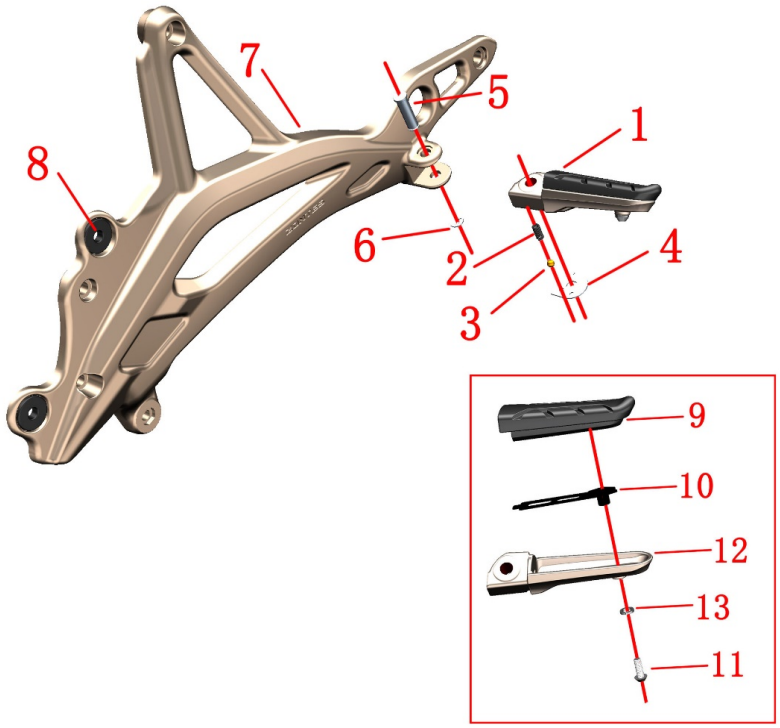
●Foot pedal with rubber for after sales service

Hold the L, front pedal(18) tightly.Disassemble bolt(20) then take off bushing(19). Then take off bolt(17) take off spring washer(21) .Take off rubber(15), positioning plate(16).

Note: Since March 2020, the L, front pedal needs to be added with a spring washer (21).

CAUTION:

●Applying lubrification to the surface of cylinder of foot pedal holder can reduce resistance on gear shift rod.



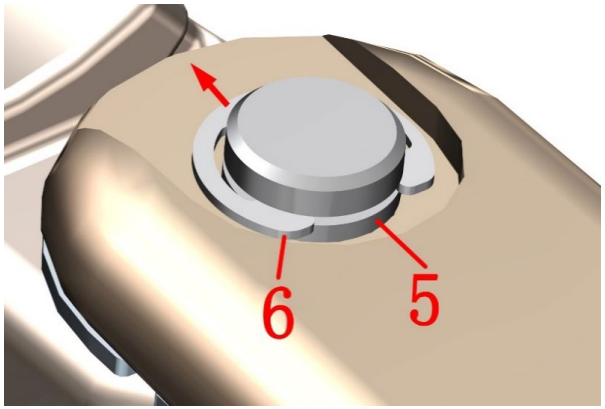


Fig.7 FOOT PEDAL COMPONENT		L, foot pedal holder component-3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		L, rear foot pedal component	1	
2	1264100-005000	ZT250－S foot pedal steel ball spring	1	
3	1274100-010000	ZT250－S rear foot pedal steel ball	1	
4	1270300-272000	KD250－F rear foot pedal positioning plate	1	
5		Foot pedal pin axle	1	
6	1264100-006000	ZT250－S Foot pedal circlip	1	
7		L, foot pedal holder	1	
8	1244100-002000	ZT250－S side cover round gum cushion	2	
9	1244200-024000	ZT310－X Foot pedal rubber	1	After sales parts
10	1274200-051000	ZT310－X Foot pedal rubber positioning plate	1	
11	1250205-038000	GB70.2M5×12（stainless steel）	1	
12		ZT310－X L,rear foot pedal	1	
13	1250501-010000	GB93φ6 spring washer	1	

PROCEDURE:

●L, rear foot pedal

Disassmble circlip(6) with a tool. Take off foot pedal pin axle(5). Then pull out L, rear foot pedal(1). Take off positioning plate(4), steel ball(3), spring(2).

●Foot pedal holder

Disassemble side cover gum cushion(8).

●After sales parts of foor pedal with rubber

Hold the L, rear foot pedal(12) tightly, use hex socket tool to disassemble bolt(11), Take off spring washer (13). Take off rubber(9) and positioning plate(10).

Note: Since March 2020, the L, rear foot pedal needs to be added with a spring washer (13).

CAUTION:

●Old type full aluminum foot pedal are for after sales service of products manufactured in early batches. To use new type foot pedal with rubber is suggested because it can absorbe more vibration.

●Ensure correct installation when exchanging after sales components of the pedal with rubber.

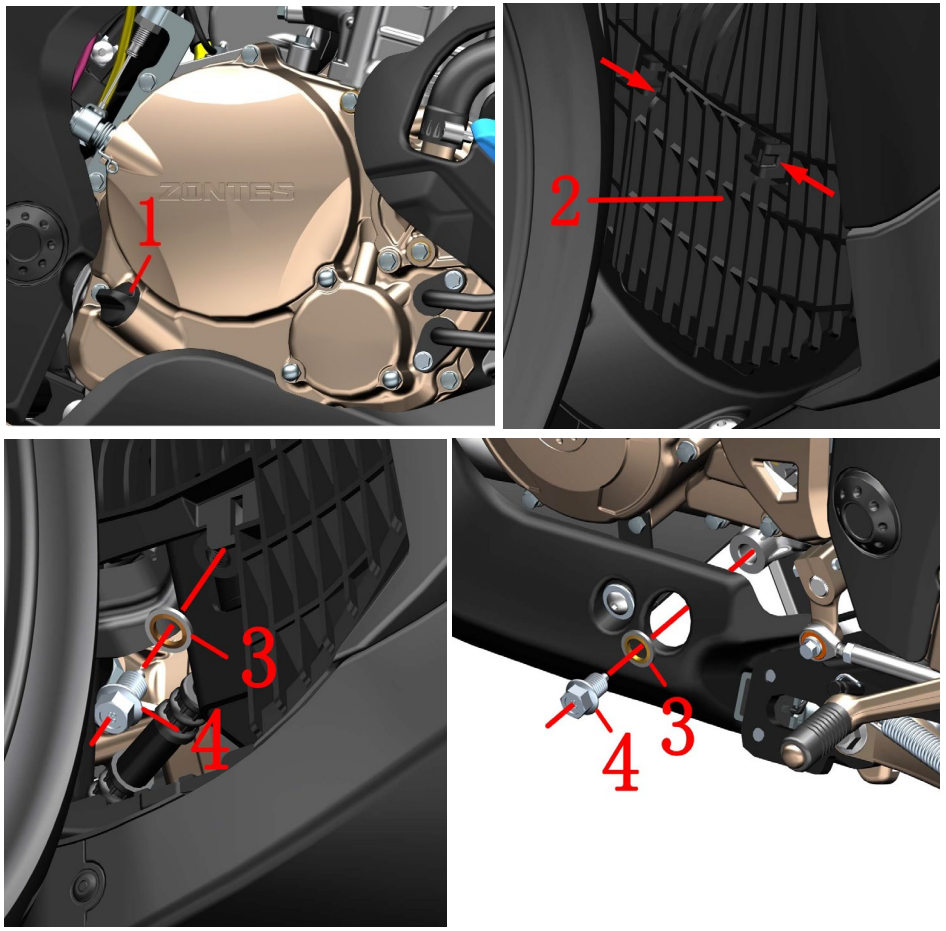


Fig.1 COOLING SYSTEM COMPONENT		Change engine oil	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1050854-002000	ZT180MN Engine oil level gauge	1	
2	1224200-048000	ZT310－X The middle cover of surrounded parts	1	
3	1244100-033000	12×φ20×2 Sealing gasket	2	
4	1251100-066093	M12×1.5×15 Oil draining bolt (color zinc)	2	24±4N.m

PROCEDURE:

●Drain off the engine oil

Park the motorcycle with side stand on flat ground.

Rotate the engine oil level gauge(1) anticlockwise and take it out. Press the latch in the direction of the arrow and take the milddle cover (2)out .

Disassemble the engine air guider before draining the engine oil is suggested.Otherwise, use a tool to guide the oil in case it contaminate the plastic covers.

Place holders to collect engine oil under draining bolt on the chassis (see left bottom photo) and draining bolt on the engine (see left middle photo).

Disassemble draining bolts(4) on the chassis and the engine. Take off sealing gasket(3). Drain thoroughly the engine oil.

Wipe off the dirty oil with clean nonwovens. Be sure that the surface of oil draining bolt and sealing gasket are not scratched and has no inpurity before reassembling. Torque on bolt is 24±4N.m. Too strong will damage the thread. Too week will cause leakage of oil.

Add from opening on right crankcase of engine 1.6L（1.7L if oil filter is changed) new engine oil of SAE 10W-50/10W-40 with API SM degree or higher. Then reassemble the engine oil gauge.

Start the engine and test it under different rotation speed for 2 minuts. Check if the engine oil leaks.

Run the engine at idling speed for 5 minuts than shut down the engine for 3 minuts. Check the engine oil level gauge. If oil level is lower than minimum mark, add more engine oil until liquid surface reaches maximum mark. Follow the steps above-mentioned and check again if engine oil leaks.

CAUTION:

●Disassembling the cooling system while the motorcycle is hot is prohibited. Wait until the engine and muffler cool down thoroughly for the manipulation.

●Wasted engine oil should be collected and hand over to qualified facilities for further treatment. Do not pour the oil anywhere and avoid pollution of environment and water source.

●Changing the draining bolt and sealing gasket every time when changing the engine oil is suggested.

●As the crankshaft connection rot has bearing bush, whild changing the engine oil, make sure the engine has at least 1L before starting the engine. If not, the bearing bush can be damaged or the crankshaft can be seized.

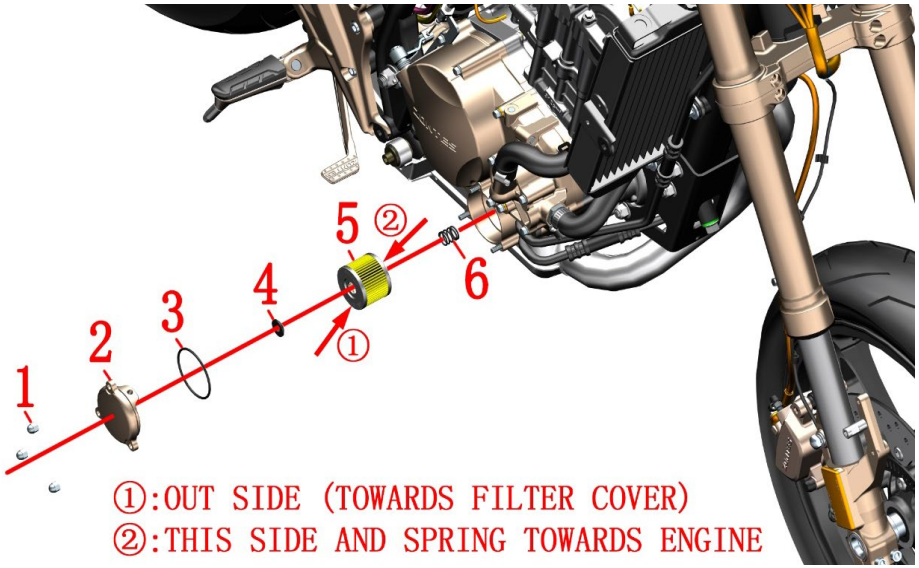


Fig.2 COOLING SYSTEM COMPONENT		Change engine oil filter	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-056093	M6 Cover type 9 degree nut	3	12±1.5N.m
2	4050954-001000	ZT180MN fine filter cover A (titanium)	1	
	4050454-014051	ZT180MN fine filter cover A (dark gray)		
3	1051454-004000	55×2.5 O-ring	1	after-sale
4	1051454-005000	ZT180MN Engine oil refined filter seal ring	1	
5	4134200-003000	ZT180 refined filter seal component	1	【1】
6	1050853-009000	Φ16.4×17×1.6 Spring for filter	1	

PROCEDURE:

●Change engine oil filter

Disassemble the engine air guider before draining the engine oil is suggested. Otherwise, use a tool to guide the oil in case it contaminate the plastic covers.

Place holder to collect wasted engine oil under right crankcase cover.

Disassemble nut(1) with tool. Rotate slightly engine oil refined filter cover(2) and take it off when it is loosen.

Take off seal ring(4). Change engine oil filter(5).

Check if seal ring(3) is broken. Change the seal ring(3) along with engine oil filter is suggested.

When reassembling, pleas check carefully if the spring(6), seal ring(4) are well installed. Engine oil filter can not be turned over when assembling.

Torque of cover type nut(1) is 12±1.5N.m.

CAUTION:

●Ensure every component is well assembled.

●To change engine oil filter and seal ring(3) at the same time is suggested.

●Engine oil filter can not be turned over when assembling.

●【1】The ZT180 refined filter seal component already included oil filter、55×2.5 O-ring(3) and ZT180MN Engine oil refined filter seal ring(4).

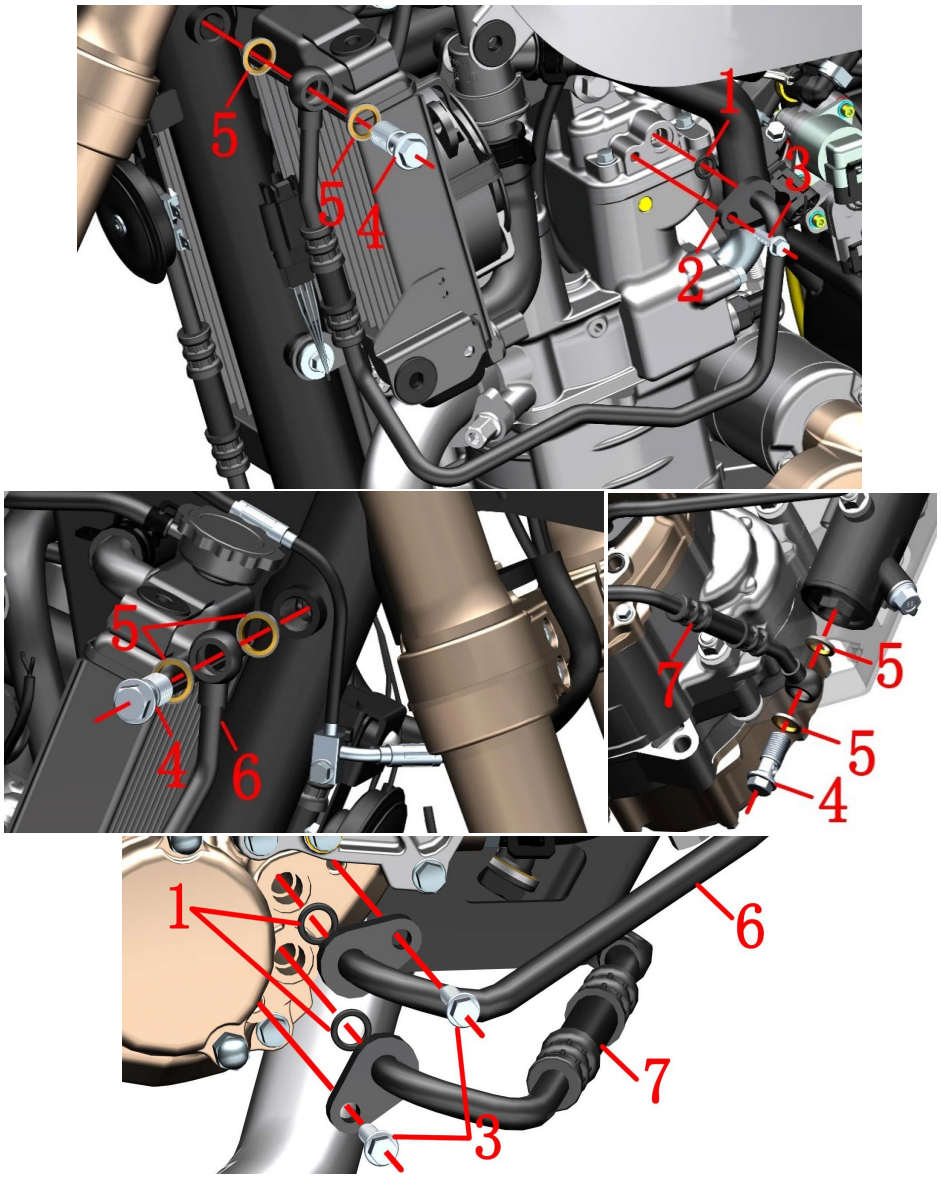


Fig.3 COOLING SYSTEM COMPONENT		Radiator tubing component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1051454-014000	9.8×2.5 O-ring	3	
2	1244200-016000	ZT310－R Chassis connected oil tube	1	
3	1251100-061093	M6×22 Hex flange bolt（8.8 degree/environmental color zinc）	3	
4	1251100-089094	Oil passing bolt M14×1.50×32（environmental color zinc）	3	
5	1244100-034000	Seal gasketφ14×φ20×2	6	
6	1244200-014000	ZT310－R Engine oil outlet tube	1	
7	1244200-015000	ZT310－R Engine oil intake tube	1	

PROCEDURE:

●Chassis connected oil tube

Disassemble oil passing bolt(4), seal gasket(5) with socket sleeve.

Disassemble bolt(3) close to engine with socket sleeve. Disassemble chassis connected oil tube. Take off O-ring (1). See photo upper left.

●Engine oil outlet tube

Disassemble oil passing bolt(4), seal gasket(5) with socket sleeve. See photo middle left.

●Engine oil intake tube

Disassemble oil passing bolt(4), seal gasket(5) with socket sleeve. See photo left lower .

Disassemble bolt(3) with socket sleeve. Take off engine oil outlet tube(6), engine oil intake tube(7); Take off O-ring(1). See photo right lower.

CAUTION:

●Disassembling the cooling system while the motorcycle is hot is prohibited. Wait until the engine and muffler cool down thoroughly for the manipulation.

●Wasted engine oil should be collected and hand over to qualified facilities for further treatment. Do not pour the oil anywhere and avoid pollution of environment and water source.

●Do not disassemble the oil tube violently in case of deformation of bush.

●To avoil leakage, changing seal gasket and O-ring every time together with engine oil is suggested.

●Be sure to wipe the connecting surface with clean nonwoven before reassembling.

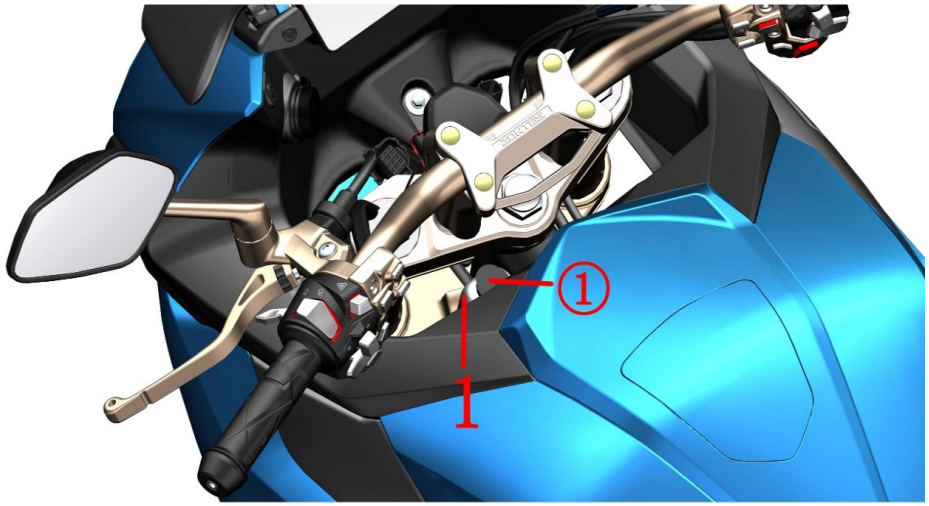


Fig.4 COOLING SYSTEM COMPONENT		Add coolant	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-006000	ZT310－R sub cooling liquid tank	1	

PROCEDURE:

●Add coolant

When the engine is completely cooled, the vehicle can be straightened to accurately check the liquid level. If it is lower than the L line, the coolant should be replenished in time. If the auxiliary tank has no or only a small amount of coolant, check the cooling system first, and remove the leak before adding it.

Park the vehicle with the side brackets; turn the direction to the right and turn to the bottom.

Open the lid① of the sub tank(1) and add a small amount of coolant each time with a funnel. It is appropriate to reach the position of the F line when the liquid level of the coolant is used to support the vehicle.

CAUTION:

●Check regularly the cooling liquid surface. It should never be lower than "L" line.

●Change cooling liquid every two years is suggested.

●Swallowing or inhaling cooling liquid would harm human body. Clean thoroughly the hands, face or explosing skin every time after adding cooling liquid. If cooling liquid is swalled by accident, please contact toxication center or hosipital. If it's inhaled, please move to open air. If it's spilt to the eye, clean it with big quantity of clean water and see doctor in time. Be sure the cooling liquid is far away from children or pets.

●Engine cooling liquid must be suitable for aluminum radiator. The basic should be glycol. Cooling liquid should be mixture of distilled water and concentrated cooling liquid under certain proportion. Be sure to choose cooling liquid which is suitable for your local extreamly low temperature. The freezing point should be lower than the local lowest temperature. Distilled water is the only kind of water acceptable. Other kind of water might cause corrosion to engine cooling system or other more severe problems.

●Total volume of cooling liquid is 1440ml.

●Cooling liquid might damage the coating of motorcycle. Be careful while adding. If it is spilt in small quantity, please clean it immediately with soft cloth.

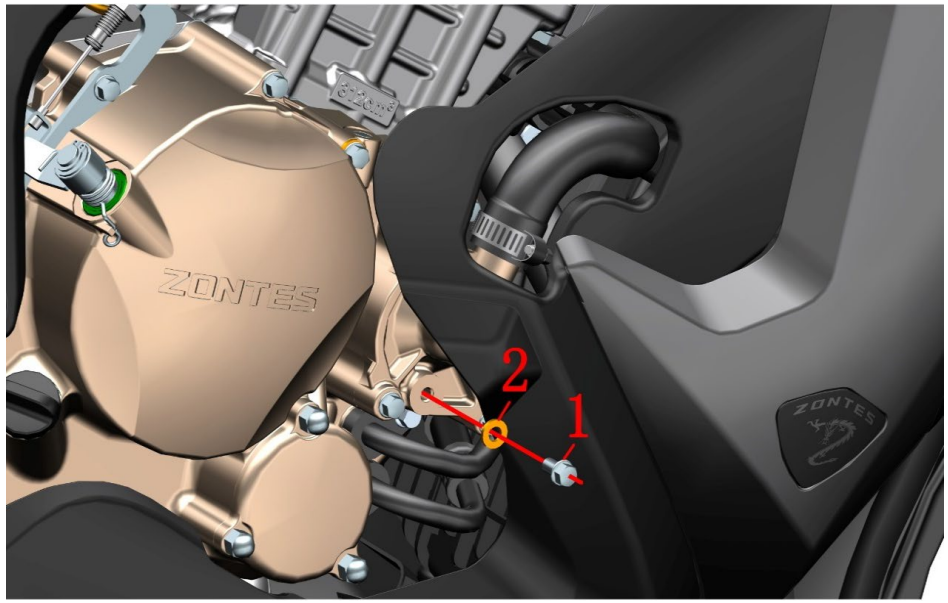


Fig.5 COOLING SYSTEM COMPONENT		Draining cooling liquid	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251112-001093	M6×16 Hex flange bolt（environmental color zinc）	1	
2	1051654-002000	Seal gasketφ6×13×1.8	1	

PROCEDURE:

●Drain the cooling liquid

Open the sub cooling liquid tank cover. Put a holder under it. Wear waterproof gloves and disassemble bolt (1) with socket sleeve. Take off seal gasket (2). Cooling liquid starts draining,when the cooling liquid in sub cooling liquid tank is all out, open the right cooling liquid tank cover to accelerate the draining of cooling liquid in the cooling system.

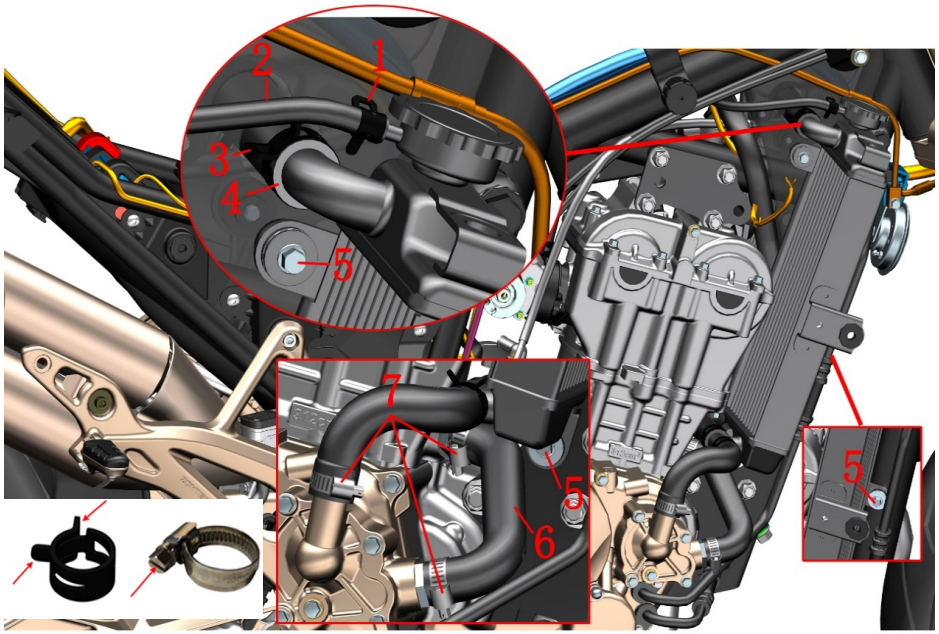
Wipe out all of the cooling liquid on surface every component with a clean cloth.

CAUTION:

●Motorcycle should be well supported.

●Manipulation should start after the engine is completely cooled down.

●Cooling liquid is toxic. Avoid strictly eye or skin contact. For more details, see "Attention" of previous page.



without fan

with fan

Fig.6 COOLING SYSTEM COMPONENT		Right tank component	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1274200-079000	ZT310 Hoop of cooling liquid tube（φ9）	1	
2	1244200-013000	ZT310－R Connecting tube of sub cooling liquid tank	1	
3	1274200-090000	ZT310 Hoop of cooling liquid tube（φ26）	1	
4	1244200-011000	ZT310－R Connecting tube of L & R cooling liquid tank	1	
5	1251100-061093	M6×22 Hex flange bolt	3	
6	1244200-012000	ZT310－R Engine cooling liquid passing tube	1	
7	1274200-041000	ZT310 Cooling liquid tube clamp（φ26）	3	
8	1244100-002000	ZT250－S Side cover round gum cushion	2	
9	1274200-191000	ZT310－X R, cooling liquid tank(with fan)	1	with fan
	1274200-005000	ZT310－R R, cooling liquid tank		without fan
10	1244200-098000	Engine cooling liquid intake tube(sliding clutch)	1	【1】
	1244200-003000	ZT310－R Engine cooling liquid intake tube		【2】
11	1244200-021000	ZT310 small circulation cooling liquid tube	1	

PROCEDURE:

●Sub cooling liquid connecting tube

Use a plier to clamp the hoop of cooling liquid tube(1) and move towards right cooling liquid tank. After it is off from the connecting tube of sub cooling liquid tank, pull off the tube(2).

●Cooling liquid tube

Pull off cooling liquid passint tube(6) from the engine after moving the two hoops(7) on both sides out of the anti-fall off holder. Drag out the anti-fall off holder from the engine. Take off hoop(7).

Use strait screwdriver to loosen the bolt of clamp(7) and then move it out the interface. Pull out the tube(10) from right tank cover tube interface.

The models on production use clamp(7) for the moment. After the stock of tank cover is finished, will use hoop (3). As the construction is different, be attention while buying after sales components. If original motorcycle uses clamp, buy a clamp. If original motorcycle uses hoop, buy a hoop.

Move hoop(3) towards cooling liquid tank to the interface of tube.

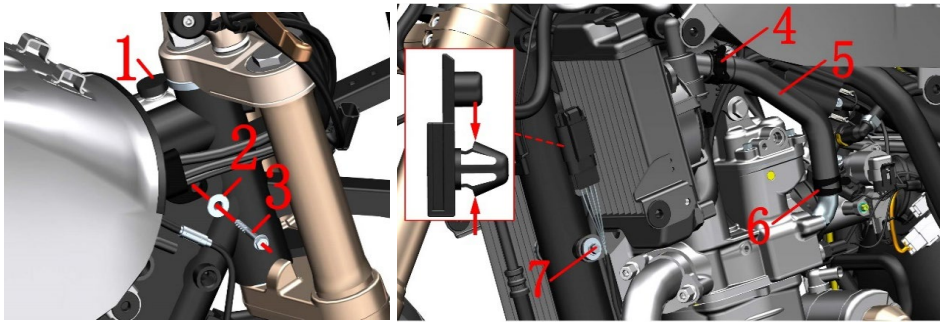
●Right cooling liquid tank assembly

Hold the right cooling liquid tank assembly with one hand, disassemble 3 pcs of bolts(5) with socket sleeve with the other hand. Separate the connecting tube(4) with right cooling liquid tank assembly.

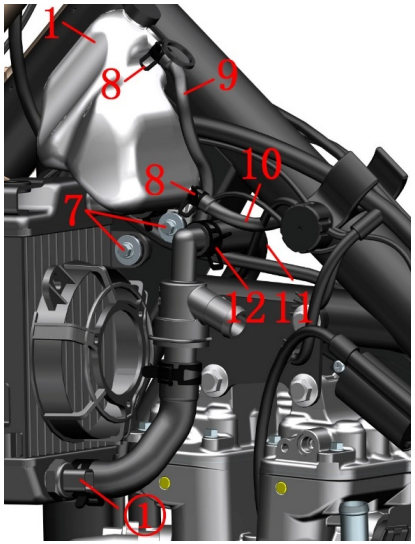
Pull out the right cooling liquid tank. Move hoop(3) to the T-type interface under the cooling liquid tank. Then separate the small circulation cooling liquid tube(11) with T-type interface. Take off the engine cooling liquid intake tube(10) with same method. Separate side cover round gum cushion(8) with right cooling liquid tank(9).

CAUTION:

●The cooling liquid tank(with fan) needs to be used in conjunction with "1274200-190000 ZT310－X L, cooling liquid tank(with dual fan interface).【1】 used for sliding clutch engine.【2】 used for light clutch engine.



A B



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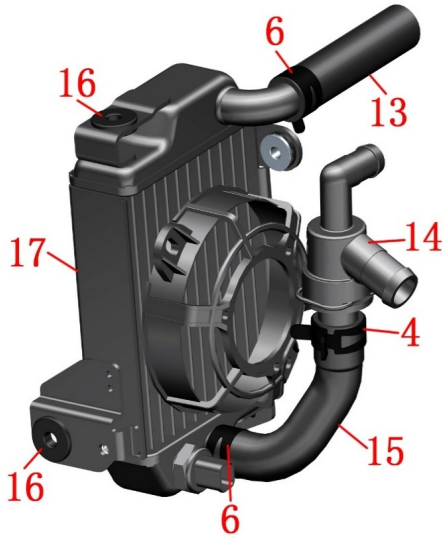


D

Fig.7 COOLING SYSTEM COMPONENT		Left cooling liquid tank component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-006000	ZT310－R sub cooling liquid tank	1	
2	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	1	
3	1250105-236093	GB5789M6×55（environmental color zinc）	1	
4	1274200-091000	ZT310 Hoop of cooling liquid tube（φ27）	2	
5	1244200-001000	ZT310－R Engine cooling liquid outlet tube	1	
6	1274200-090000	ZT310 Hoop of cooling liquid tube（φ26）	3	
7	1251100-061093	M6×22 Hex flange bolt（8.8 degree/environmental color zinc）	3	
8	1274200-088000	ZT310 Hoop of cooling liquid tube（φ10.5）	2	
9	1244200-025000	ZT310－R Sub cooling liquid tank leaking tube	1	
10	1244200-013000	ZT310－R Sub cooling liquid tank connecting tube	1	
11	1244200-021000	ZT310 small circulation cooling liquid tube	1	
12	1274200-089000	ZT310 Hoop of cooling liquid tube（φ22）	1	
13	1244200-011000	Connecting tube of L & R cooling liquid tube	1	
14	1274200-019000	ZT310－R Thermostat	1	
15	1244200-010000	ZT310－R L, cooling liquid tank intake tube	1	
16	1244100-002000	ZT250－S Side cover gum cushion	2	
17		L, cooling liquid tank	1	

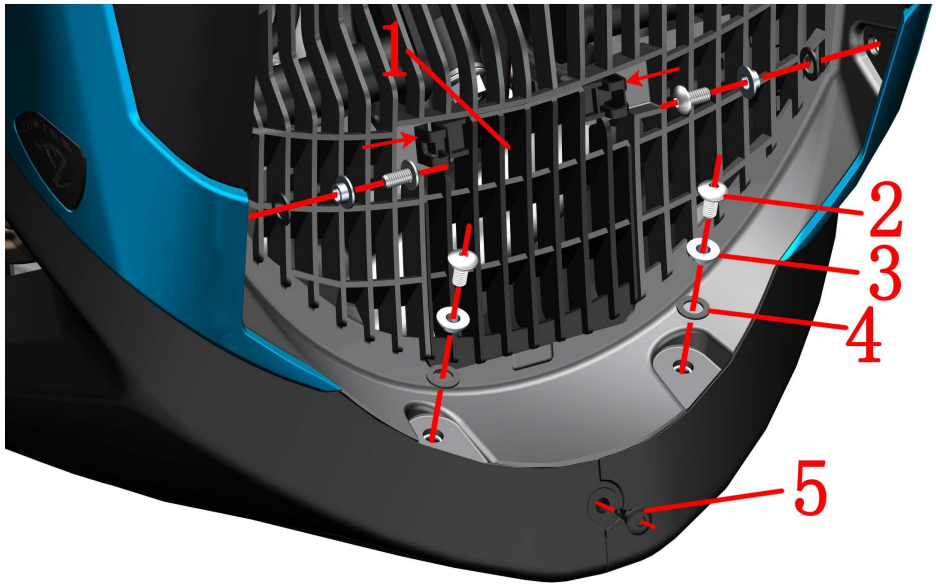
PROCEDURE:

●Sub cooling liquid assembly

Hold well the sub cooling liquid tank assembly. Disassemble bolt(3) on the right side. Take off bush(2). See Fig A, move away clamp(8). Disassemble cooling liquid leaking tube(9) and connecting tube(10). Then disassemble bolt(7) undersub cooling liquid tank. Take off sub cooling liquid tank(1). See Fig C.

●Left cooling liquid tank assembly

See Fig B. Use a plier to grip as the arrow shows on the cable clip and pull it out of left cooling liquid tank holder. Move hoop(4) and (6) to interface of tube and pull out engine cooling liquid outlet tube(5). Take off hoop (4) and (6). Pull off the cable interface at position ①. Move hoop(12) to joint elbow of thermostat(14). Hold tightly the thermostat and pull out the small circulation cooling liquid tube(11). Take off hoop(12). Pull off interface of fan cable. Take off bolt(7) as shown in Fig B and Fig C. Then take off sub cooling liquid tank assembly. Move the hoop(6) from top of cooling liquid tank to conner joint of cooling liquid tank. Then pull out connecting tube(13). See Fig D. Move away hoop(6) and (4) under the cooling liquid tank. Then take off the themostat(14) and left cooling liquid tank intake tube(15). Take off hoop(6) and (4).See Fig D. Separate side cover gum cushion(16) and left cooling liquid tank(17).



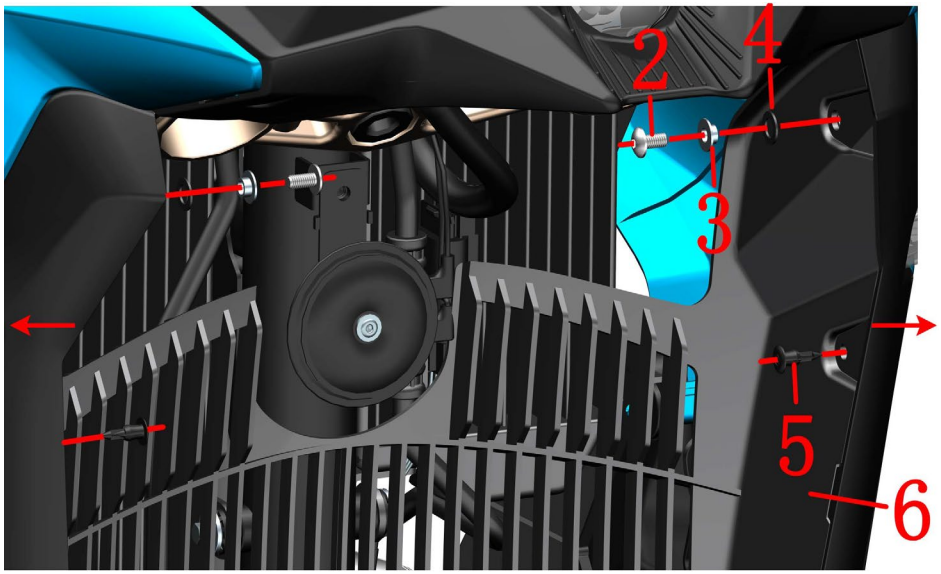


Fig.1 SURROUNDING COMPONENT		Surrounding middle component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-048000	ZT310-X surrounds the middle cover	1	
2	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	6	
3	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	6	
4	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	6	
5	1224100-010000	ZT250－S swell nail	3	
6	1224200-047000	ZT310-X surrounds the middle	1	

PROCEDURE：

● Surround the middle cover

Press the buckle in the direction of the arrow and then remove the middle cover (1).

●Bounding components

Use a small Phillips screwdriver to push down the center of the swell nail and remove the 3 swell nails (5).

Remove the 6 bolts (2) and remove the bushing (3) and cushion rubber (4).

Pull the left and right surrounding components slightly outward in the direction of the arrow and remove the surrounding middle (6).

CAUTION：

● The vehicle should be fixed before operation.

● Pay attention to the force when disassembling to prevent damage to the parts.

Fig.2 SURROUNDING COMPONENT		Envelope panel assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250－S swell nail	2	

PROCEDURE：

●Bound panel components

Use a small Phillips screwdriver to push down the center of the swell nail and remove the 2 swell nails (1).

●Left bracket panel assembly

Pull out from the bottom up at the four points indicated by the arrows, pull out the left surrounding panel assembly, and then remove the left turn signal cable connector and remove it.

●Right enclosure panel assembly

Pull out from the bottom to the top of the four directions indicated by the arrow, pull out the right enclosure panel assembly, remove the right turn signal cable connector and remove.

CAUTION：

●The vehicle should be fixed before operation.

●Pay attention to the force when disassembling to prevent damage to the parts.

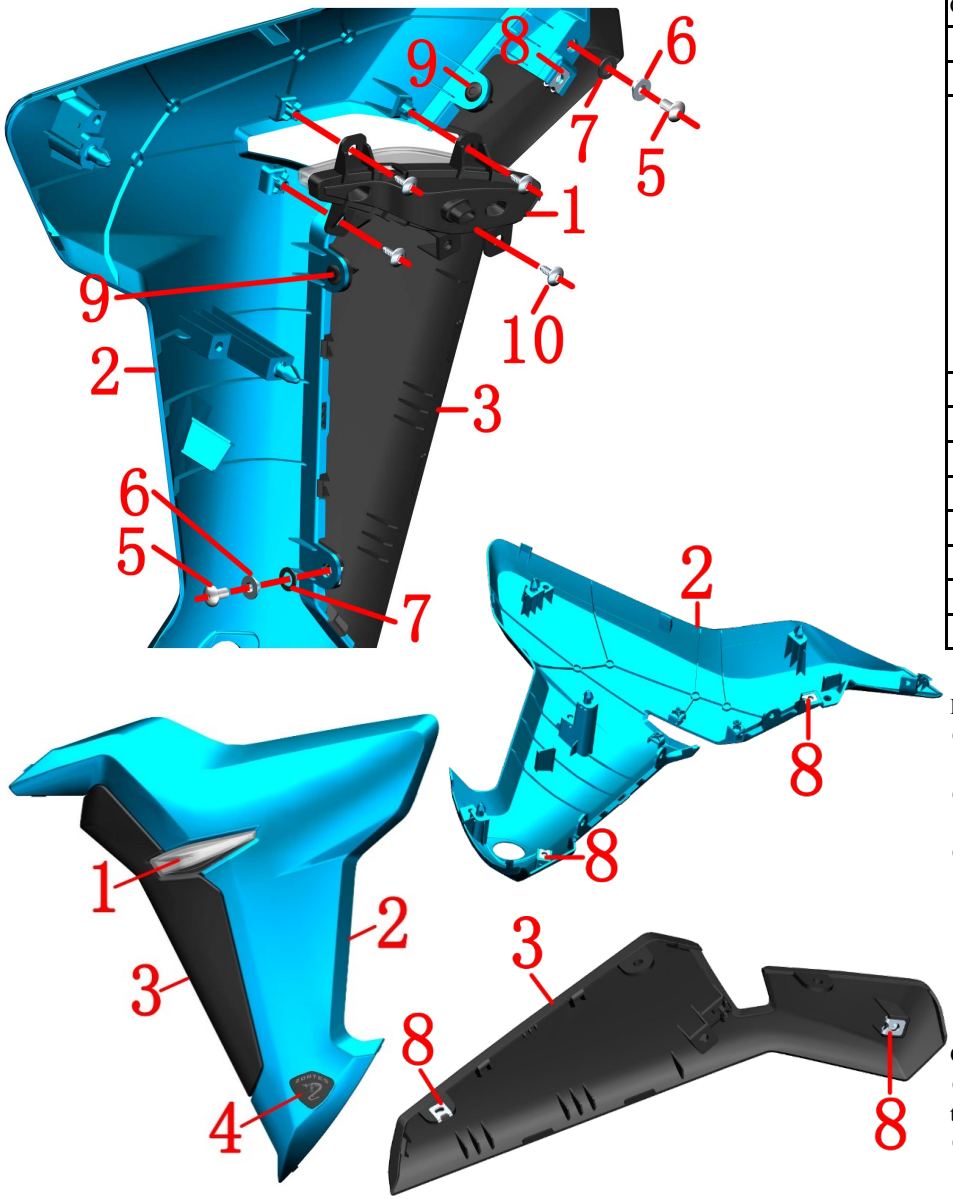


Fig.3 SURROUNDING COMPONENT		Left surround panel assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1174200-009000	ZT310-X front left turn signal	1	
2	4044201-007064	ZT310-X bright blue surround left panel	1	blue
	4044201-055001	ZT310-X pearl white surrounded by left panel		white
	4044201-045021	ZT310-X special black surround left panel		black
	4044201-045051	ZT310-X dark gray borders the left panel		gray
	4044201-101015	ZT310-X ruby red surround left panel		red
	4044201-200002	ZT310-X pearl white surrounded by left panel（GP）		white GP
	4044201-198021	ZT310-X special black surround left panel（GP）		black GP
	4044201-202052	ZT310-X dark gray borders the left panel（GP）		gray GP
3	1224200-034000	ZT310-X surrounds the left decorative panel	1	
4	1210201-393000	ZT310-X surrounds left panel signage	1	
5	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
6	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	2	
7	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	2	
8	1251300-063093	Splint M6×11×15 (environmental color)	4	
9	1224100-010000	ZT250-S swell nail	2	
10	1251200-033093	Non-standard self-tapping screws ST4.2×12	4	

PROCEDURE:

●Left bracket panel signage

Lift the label (4) out from the back of the left enclosure panel assembly to clean up the remaining offset.

●Left turn signal assembly

Remove the 4 self-tapping screws (10) and remove the left turn signal (1) from the panel assembly.

●Left panel components

Remove the 2 bolts (5) and remove the bushing (6) and cushion rubber (7).

Use a small Phillips screwdriver to push down the center of the swell nail and remove the 2 swell nails (9).

Separate the left enclosure panel assembly from the left trim panel assembly.

Remove the 2 pieces of the splint (8) from the left enclosure panel (2).

Remove the two splints (8) from the left enclosing decorative panel (2).

CAUTION:

● Pay attention to the force when disassembling to prevent damage to the parts. Protective measures should be taken to prevent scratches.

● Do not pull the cable when removing the turn signal from the left enclosure panel assembly.

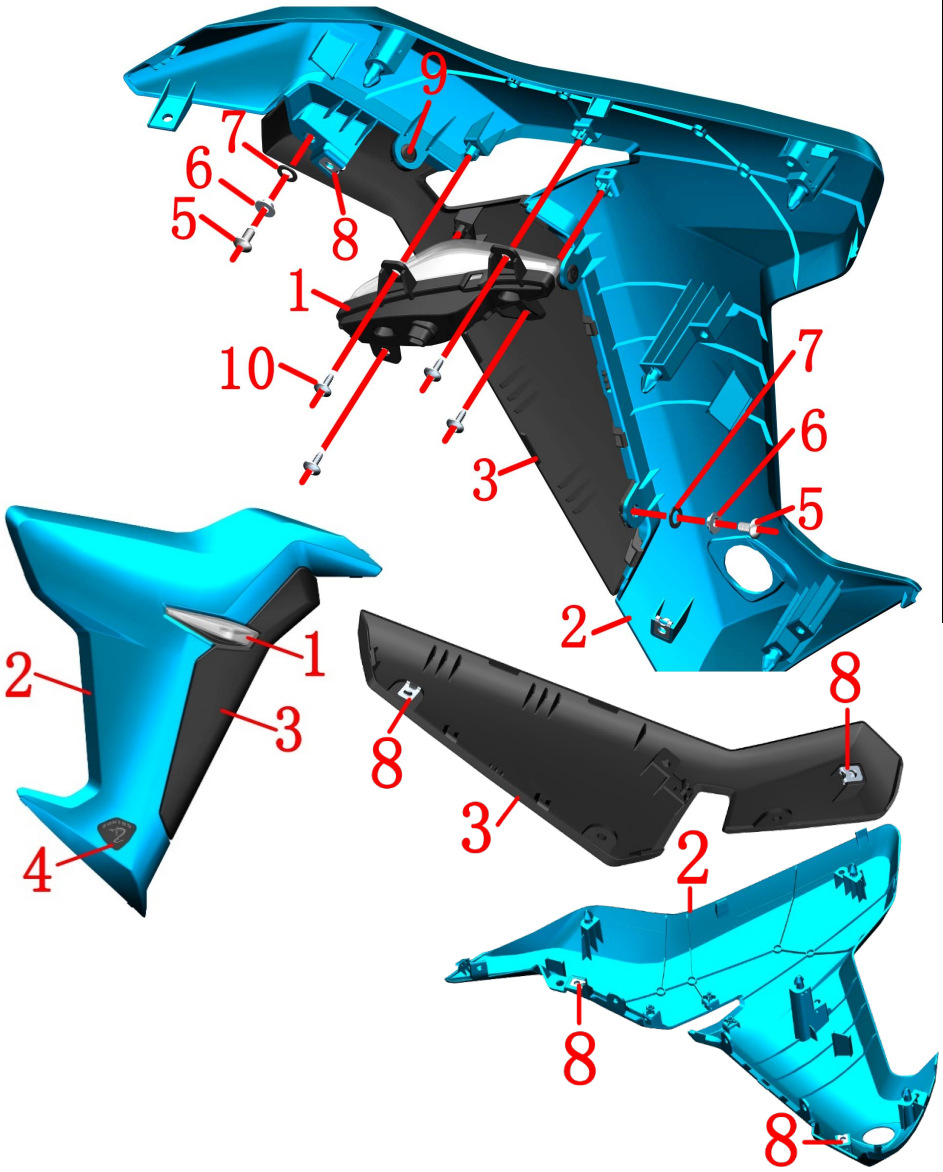


Fig.4 SURROUNDING COMPONENT		Right enclosure panel assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1174200-010000	ZT310-X front right turn signal	1	
2	4044201-008064	ZT310-X bright blue surrounds the right panel	1	blue
	4044201-056001	ZT310-X pearl white surround right panel		white
	4044201-046021	ZT310-X special black surround right panel		black
	4044201-046051	ZT310-X dark gray borders the right panel		gray
	4044201-102015	ZT310-X ruby red surround right panel		red
	4044201-201002	ZT310-X pearl white surrounded by right panel（GP）		white GP
	4044201-199021	ZT310-X special black surround right panel（GP）		black GP
	4044201-203052	ZT310-X dark gray borders the right panel（GP）		gray GP
3	1224200-035000	ZT310-X surrounds the right decorative panel	1	
4	1210201-394000	ZT310-X surrounds the right panel signage	1	
5	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
6	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	2	
7	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	2	
8	1251300-063093	Splint M6×11×15 (environmental color)	4	
9	1224100-010000	ZT250－S swell nail	2	
10	1251200-033093	Non-standard self-tapping screws ST4.2×12	4	

PROCEDURE：

●Right enclosure panel signage

Eject the label (4) from the back of the right enclosure panel assembly and clean the remaining offset.

●Right turn signal assembly

Remove the 4 self-tapping screws (10) and remove the right turn signal (1) from the panel assembly.

●Right panel components

Remove the 2 bolts (5) and remove the bushing (6) and cushion rubber (7).

Use a small Phillips screwdriver to push down the center of the swell nail and remove the 2 swell nails (9).

Separate the right enclosure panel assembly from the right trim panel assembly.

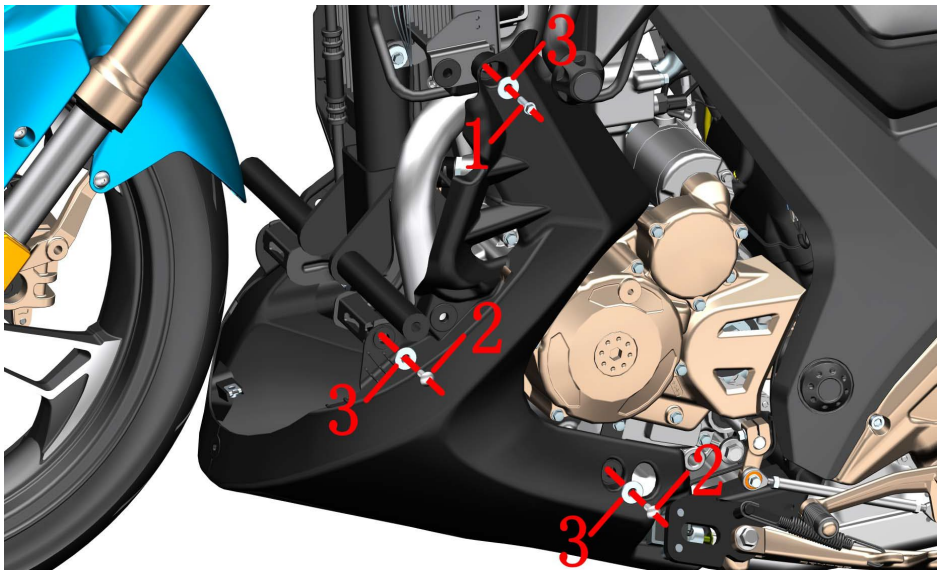
Remove the 2 plywood (8) from the right enclosure panel (2).

Remove the 2 splints (8) from the right enclosing decorative panel (2).

CAUTION：

●Pay attention to the force when disassembling to prevent damage to the parts. Protective measures should be taken to prevent scratches.

●Do not pull the cable when removing the turn signal from the right enclosure panel assembly.



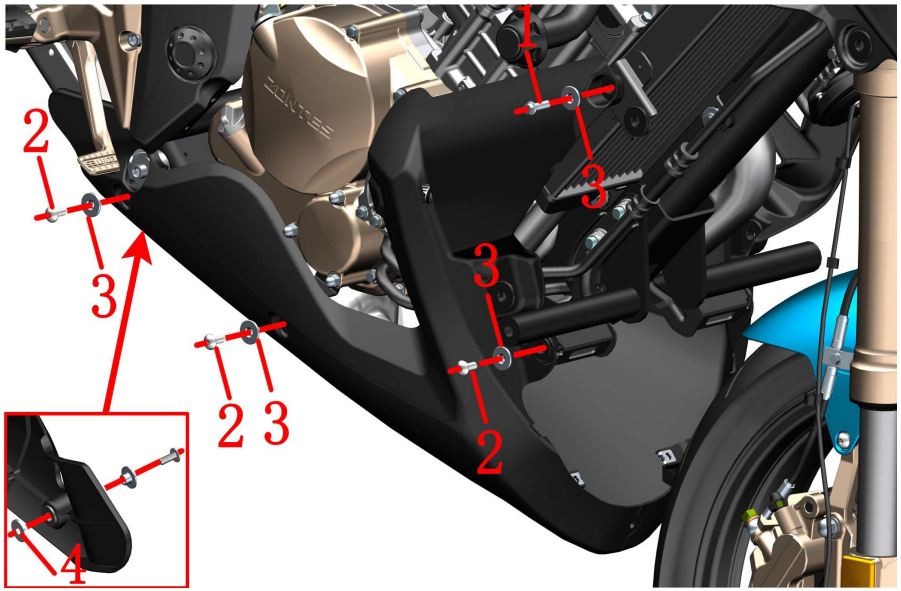


Fig.5 SURROUNDING COMPONENT		Lower shroud assembly 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 hex flange face full thread bolt	2	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	7	
3	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	7	
4	1250502-010093	GB96.1φ6 (environmental color)	1	

PROCEDURE：

●Bottom lower shroud assembly

Remove the bolt (1) and remove the bushing (3).

Remove the 2 bolts (2) on the left side with one hand on the bottom of the lower shroud assembly and remove the bushing (3).

●lower right shroud assembly

Continue to hold the bottom of the lower shroud assembly with one hand and remove the bolt (1), and remove the bushing (3).

Remove the 3 bolts (2) on the right side and remove the bushing (3).

Slightly open the rear of the lower right shroud and remove the shim (4).

● Lower shroud assembly

CAUTION：

● Pay attention to the force when disassembling to prevent damage to the parts.

● For the disassembly procedure of the lower shroud bracket, see “Frame & Engine Combination 1”.

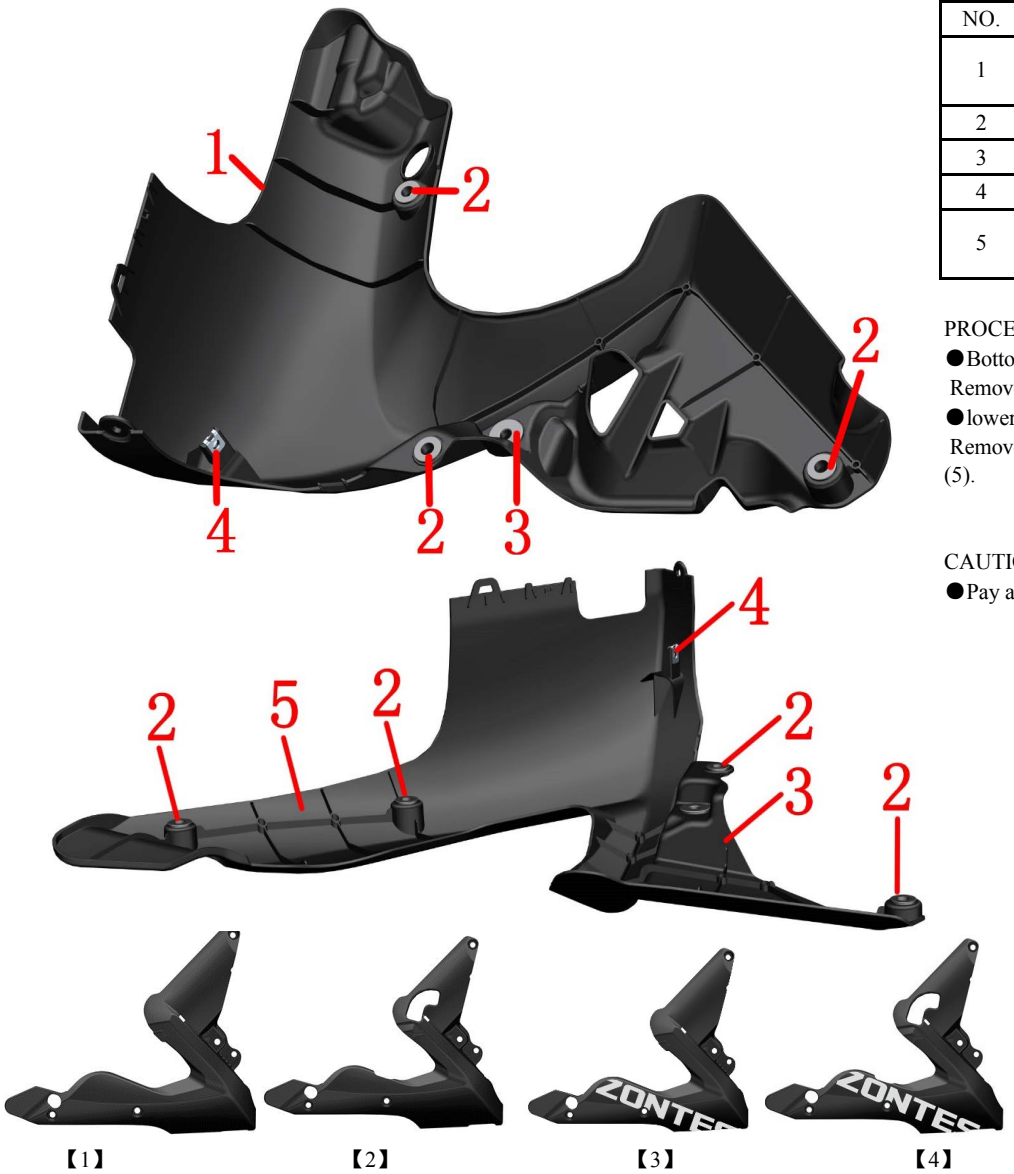


Fig.6 SURROUNDING COMPONENT		Lower shroud assembly 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1020442-019000	ZT310-X lower shroud left	1	
	4044201-222000	ZT310-X2 lower shroud left（bright siver GP)		GP
2	1244100-004000	ZT250-S Flanging Bushing Buffer	7	
3	1244100-002000	ZT250-S side cover round glue	2	
4	1251300-063093	Splint M6×11×15 (environmental color)	2	
5	1224200-155000	ZT310-X1 lower right side of the shroud	1	
	4044201-333000	ZT310-X1 lower right side of the shroud（ GP)		GP

PROCEDURE：

●Bottom lower shroud assembly

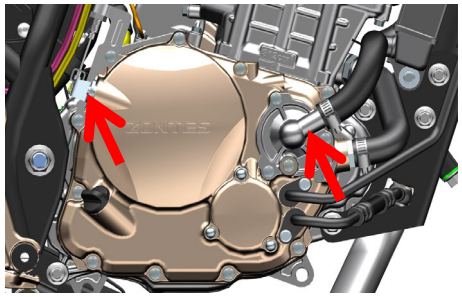
Remove the cushion rubber (2), the side cover round rubber (3) and the splint (4) from the lower left shroud (1).

●lower right shroud assembly

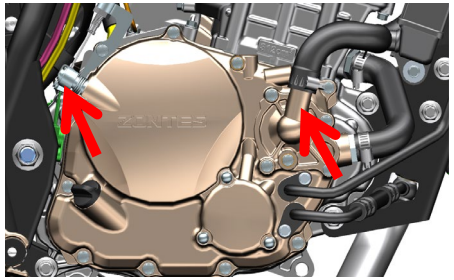
Remove the cushion rubber (2), the side cover round rubber (3) and the splint (4) from the lower right shroud (5).

CAUTION：

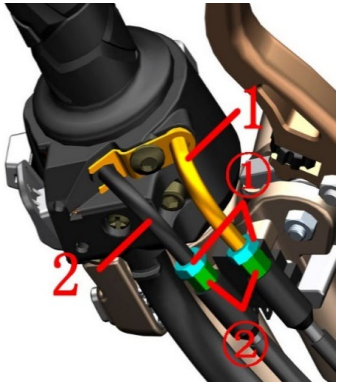
●Pay attention to the force when disassembling to prevent damage to the parts.

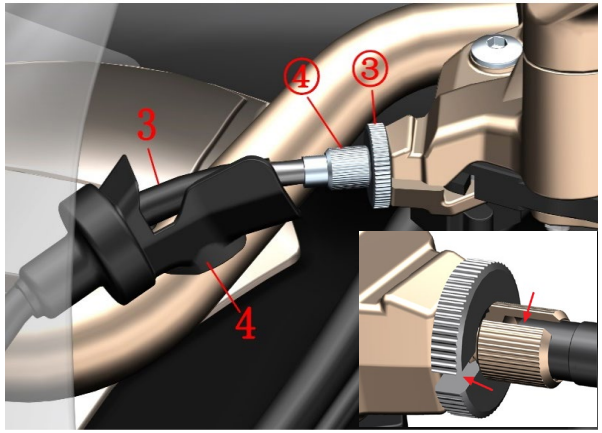


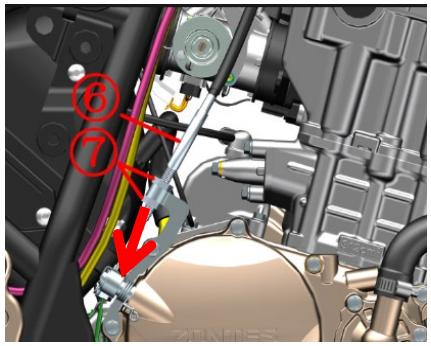
Light Clutch Engine



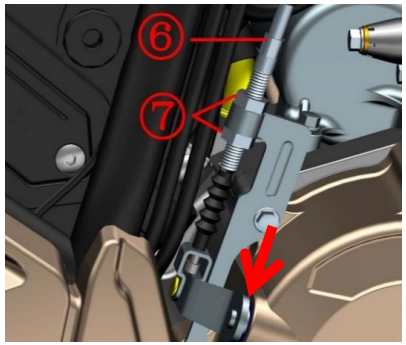
Sliding Clutch Engine



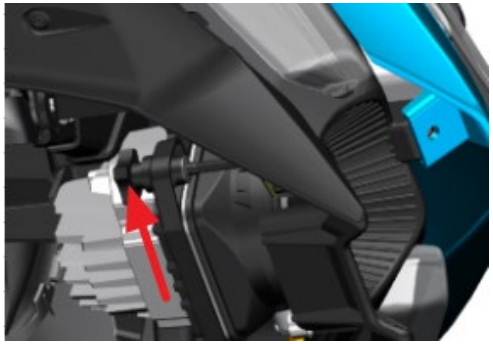




sliding clutch



light clutch



ZT310－X Clutch cable

ZT310－X1 Clutch cable

Fig.1 FRONT FORK COMPONENT		Throttle/clutch cable clearance adjustment, light height adjustment	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		Throttle refueling line	1	
2		Throttle return line	1	
3	1154200-012000	ZT310-X1 Clutch line (sliding clutch)	1	sliding clutch
	1154200-002000	ZT310-X Clutch line		lighit clutch

PROCEDURE:

●Throttle line

Use an open-end wrench to loosen the lock nut ① on the throttle refueling line (1) or the return line (2), and turn the adjustment screw ② to adjust the clearance to 2 to 4 mm. After the adjustment, lock the nut ① again.

●Clutch line

Fine adjustment:

Lift the protective rubber sleeve ⑤ on the clutch rocker arm to the elbow of the clutch cable (3), loosen the nut ③ with pliers, rotate the adjustment screw ④, finally lock the nut ③, and then reset the dust jacket. After adjusting, pay attention to the nut ③, the adjustment screw ④ and the groove of the rocker seat should be staggered to prevent the cable from coming out.

Big adjustment:

If fine adjustment cannot be achieved, loosen the nuts⑦ with an open-end wrench, rotate the adjustment screw ⑥, and finally tighten the nuts ⑦.

●Light height adjustment

The driver sits on the motorcycle and keep it upright. The other person uses the light height control knob to adjust the appropriate height. and rotates counterclockwise. Low beam height.Turn the light down by counterclockwise.

CAUTION:

●The motorcycle support should be fixed during disassembly to prevent accidents caused by incline.

●Throttle line adjustment should be noted as follows:

After adjustment, ensure that the throttle can be reset automatically. It is forbidden to increase the idle speed of the engine due to adjustment of the cable.

The engine idle speed rise cannot occur in the direction of rotation.

Checking the engine idle speed should be performed under the condition of a heat engine and should be at 1300 to 1500 rpm.

●The clutch adjustment should be noted as follows:

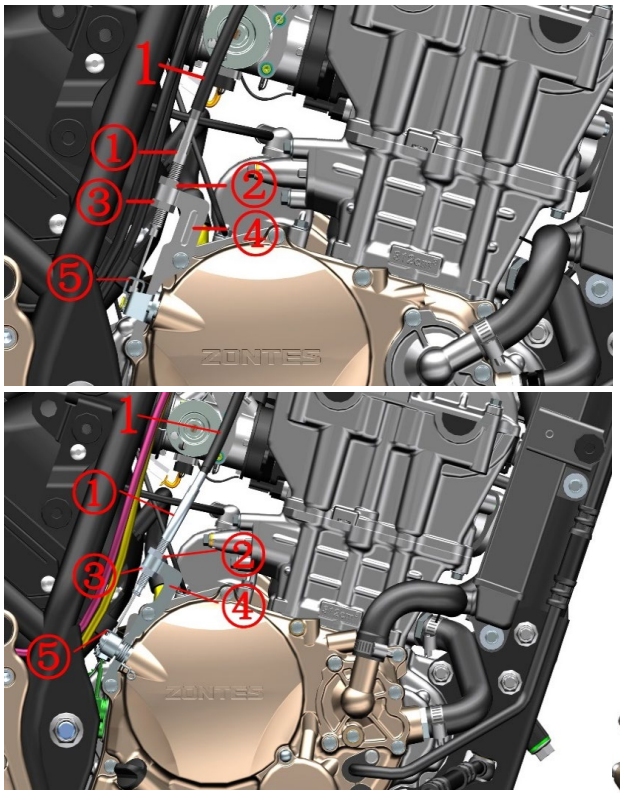
Excessive free travel can cause wear and malfunction of the clutch and gearshift mechanism.

After adjustment, be sure to stagger the nut, adjusting screw, and slot on the rocker arm to a certain position to prevent the cable from coming out of the slot.

●Light height adjustment should be noted as follows:

Too high or too low light levels can affect safe driving. The height of the lights should be properly adjusted according to whether there are changes in the weight of the occupants and the driver.

It is forbidden to adjust the light height during riding. It is advisable to adjust the road with a smooth road surface and a straight line distance of about 150 meters without affecting traffic safety at night.



lighit clutch

Sliding clutch

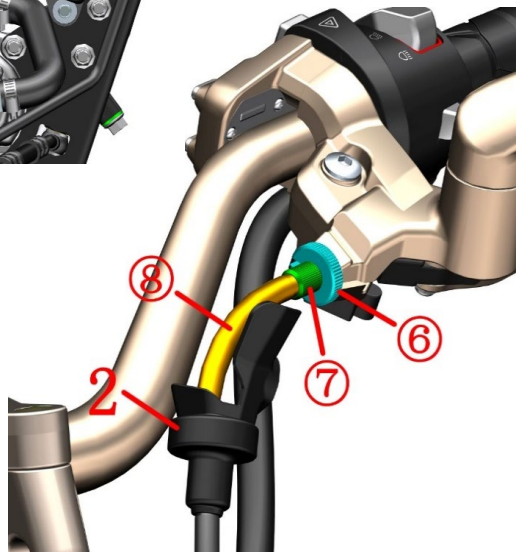


Fig.2 FRONT FORK COMPONENT		clutch cable replacement	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1154200-012000	ZT310－X1 Clutch cable	1	sliding clutch
	1154200-002000	ZT310－X Clutch cable		light clutch
2	1244200-046000	ZT310－V protective rubber sleeve	1	

PROCEDURE:

●Remove the cluch line

Use an open-end wrench to loosen the nuts ② and ③; fix the adjusting screw ①, rotate the nut ② up to the top of the thread of the adjusting screw, and screw the nut ③ to the bottom to completely separate from the thread. Separate the clutch wire core connector from the bracket ⑤, close the nut ③ to the black sheath with one hand, and remove the adjustment screw ① from the bracket ④ with one hand.

First, the protective rubber sleeve (2) is retracted to the elbow ⑧ and the nut ⑥ is loosened with the pliers; the nut ⑥ and the adjusting screw ⑦ are rotated to the same position as the groove on the rocker arm, and remove the cable from the rocker arm seat.

Remove the clutch line.

Remove the protective sleeve (2) from the clutch cable(1).

●Install the clutch line

Put protective rubber sleeve (2) into clutch elbow.

After inserting the clutch cable joint into the rocker arm, screw the nut ⑥ and the adjusting screw ⑦ to the groove on the rocker arm.

Assemble the clutch cable into place according to the original alignment.

Rotate the nut ② up to the top of the thread of the adjusting screw, and screw the nut ③ to the bottom to completely separate from the thread.

Take the nut ③ close to the black sheath with one hand and insert the adjustment screw ① into the bracket ④ with one hand.

Insert the clutch core connector into the hole of the bracket ⑤.

Initially position the nut ② first, adjust the free stroke adjustment in the clutch cable adjustment, and then lock the nut ③.

Finally, reset the protective rubber sleeve (2).

CAUTION:

●The motorcycle support should be fixed during disassembly to prevent accidents caused by incline.

●Before replacing the clutch line, it is necessary to disassemble the seat cushion, fuel tank, liner, side cover, etc.

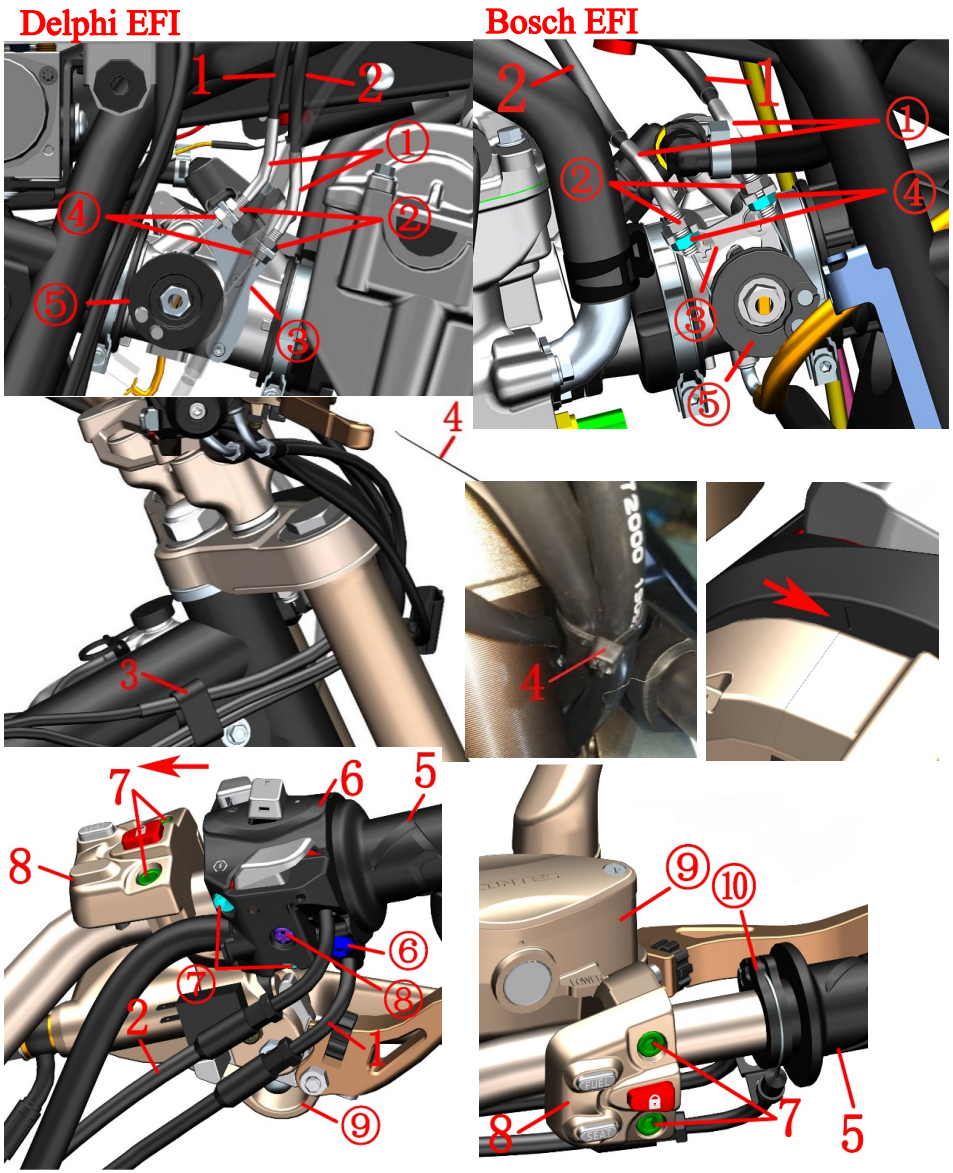


Fig.3 FRONT FORK COMPONENT		Replace the throttle line	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		Throttle refueling line	1	
2		Throttle return line	1	
3	1224200-016000	ZT310-R Line clamp	1	
4	1224100-051000	0 Flame retardant tie (black 2.5×100)	1	
5	1244100-042000	ZT250-R Right handlebar rubber sleeve	1	
6		Right handlebar switch	1	
7	1250205-031091	GB70.1M6×30 (stainless steel)	2	
8		Right handlebar auxiliary switch	1	

PROCEDURE:

●Disassemble the throttle line

Use an open-end wrench to turn the nut ② of the throttle refueling line (1) or the oil return line (2) upside down, turn the nut ④ downwards out of the adjusting pipe ①; rotate the turntable on the throttle valve clockwise, and turn the cylindrical joint of the fuel line from the turntable Remove; then move the adjustment tube upwards over the bracket ③ on the throttle valve and pull outwards to separate the core from the bracket. Similarly, remove the oil return line.

Open the card of the line clamp (3) slightly, remove the throttle cable from the slot, and cut off the cable tie (4).

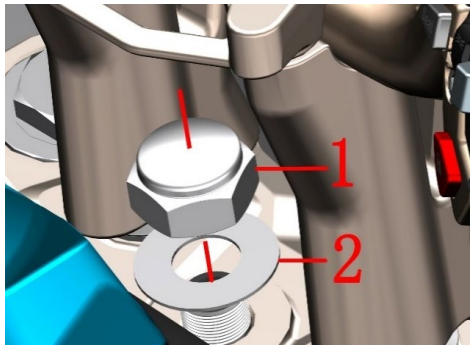
Loosen the bolts (7) with the Allen tool; remove the sub switch (8) and the right brake rocker arm assembly (9) in the direction of the arrow and lock the bolt (7). Always keep disc brake main pump ⑨ high to prevent air from entering the oil circuit.

Hold the right hand switch (6) with your hand and remove the bolts ⑦ and ⑧ before removing the bolt ⑥. Switch the upper and lower parts of the switch.

Remove the throttle cable from the right hand and remove the rubber sleeve (5) from the core turntable ⑩, and then remove it from the cable hole in the lower part of the switch.

●Install the throttle line

First pass the throttle cable into the cable hole in the lower part of the switch. Fit the cylindrical connector of the throttle cable into the turntable ⑩ on the right hand gripper (5). Return the oil return line card to the limit slot provided on the fuel line. Use a hexagon socket tool to lock the bolt ⑦ to a torque of ⑧ to 10 Nm. The switch mounting hole is slightly twisted a few times for the rear bolt ⑧ and the bolt ⑥ is locked after observing the positioning hole and the direction of the lower part of the switch (6). Finally, tighten the bolt ⑧ and tie the tie (4). Cut off the excess. Reset the sub switch and rocker assembly and note the symbol on the alignment switch. Install the throttle cable into the slot of the hub clamp (3). Use an open hand to turn the nut ② of the throttle refueling line (1) or the return line (2) up to the end, and turn the nut ④ downwards to the adjustment pipe ①. Put the oil return line into the bracket ③, and fit the connector into the turntable ⑤. Put the oil line into the bracket ③, then turn the turntable ⑤ to a certain angle, and then insert the connector. Refer to the method of adjusting the gap to adjust the throttle line clearance; after adjusting the left and right direction of rotation, there should be no change in idle speed and flexible reset. Lock nuts ② and ④.



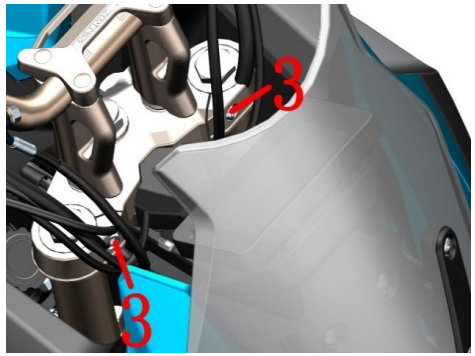


Fig.4 FRONT FORK COMPONENT		Turn adjustment	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-045000	ZT250-S Upper connection plate decorative nut	1	100N·m
2	1251500-050000	ZT250-S Upper connection plate gasket φ18.5×φ39×1	1	
3	1250205-023000	GB70.1 Hexagon M8×35 (color zinc)	2	
4	1134100-007000	ZT250-S Adjusting nut lock washer	1	
5	1251300-046093	ZT250-S Direction column adjusting nut M24X1	2	
6	1244100-015000	ZT250-S Adjusting nut pad	1	
7	1224100-005000	ZT250-S Direction column dust cover	1	
8	1130900-024000	ZT250-S Shaft ring	1	
9	1130900-022000	ZT250-S Conjoined steel ball	2	
10	1130900-026000	ZT250-S Seat ring	2	

PROCEDURE:

●When the front fork is slightly swaying or when the direction handle is swung

Check if the pressure of the front tire is the recommended air pressure at room temperature: 250 kPa.

If it is lower than the recommended air pressure, the front tire pressure should be inflated to 340 kPa first, and then deflated to 250kPa. If it is otherwise set the front wheel and turn to inspect the tire tread, if it is worn or deformed, the front tire needs to be replaced. If no, continue to operate.

●Check steering device

Set up the front wheel and shake the lower part of the fork by hand to check if the steering shaft is loose or if the left and right rotations are not flexible.

Adjust the adjustment nut:

Remove the trim nut (1) with a spanner, remove the spacer (2), and remove the bolt (3) with the Allen tool. The direction of the upper board assembly wrapped with a clean cloth and then placed to prevent scratches. Remove the lock washer (4); remove the upper adjustment nut (5) with a special four-jaw shank or hook wrench and remove the pad (6).

If the steering resistance is too large, turn the lower adjustment nut (5) counterclockwise. If the brake is slightly swaying or swings, rotate clockwise. The torque is about 14N.m. It is appropriate.

When reassembling, the top adjusting nut only needs to be screwed to align with the bottom nut groove, so as not to over-tighten to avoid excessive deformation of the pad (6); the torque requirement of the decorative nut (1) is 100 Nm.

● Steering bearing

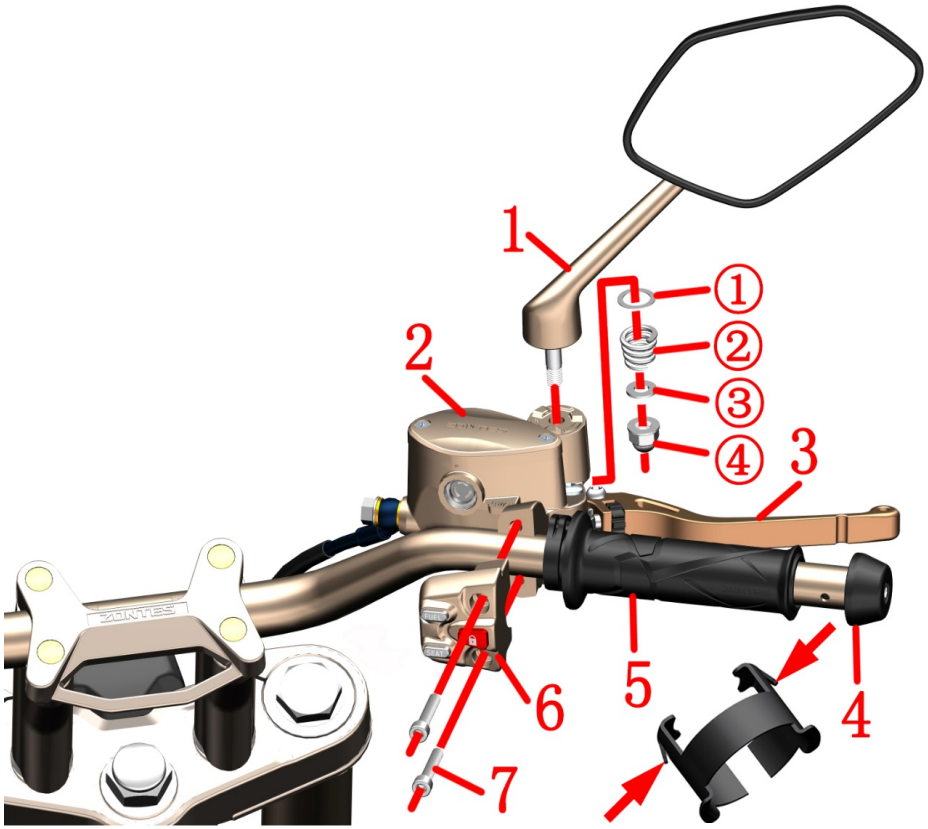
If the above operation still can not rule out excessive steering resistance or stuck as follows:

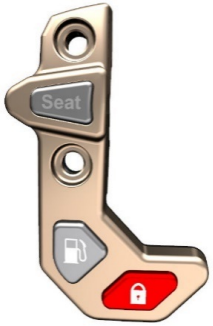
Remove the adjusting nut (5), remove the upper dust cover (7), shaft ring (8), and connecting ball (9), remove the directional column & front shock absorber & front wheel assembly, and check the shaft ring and the connecting steel ball for abnormal wear or rust . At the same time, inspect the seat ring (10) in the standpipe in front of the frame for abnormal wear or rust. The newly replaced conjoined steel ball should be evenly greased, pay attention to the amount of grease.

CAUTION:

●The motorcycle should be fixed before operation. The material should be protected during the disassembly to prevent scratches.

●If the steering is adjusted too tightly, the steering force will be greater. If the steering is too loose, the front of the motorcycle will be slightly shaken during braking, and adjustments must be made according to the actual needs of the driver.





ZT310-X right han switch(TFT)

Second Generation Right Handlebar Switch (TFT)

Fig.5 FRONT FORK COMPONENT		Right handlebar component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1194100-002000	ZT250-S Right rearview mirror	1	
2	1100300-044000	ZT125T Front disc brake main pump component (without handle)	1	
3	1134100-032000	ZT250-R Right Hand Rocker (Machine)	1	
4	1134200-023000	ZT250 - R balance block	1	
5	1244100-042000	ZT250-R Right hand rubber sleeve	1	
6	1184200-086000	ZT310-X right hand switch(TFT)	1	Stop selling
	1184200-145000	Second Generation Right Handlebar Switch (TFT)		New
7	1250205-031091	GB70.1M6×30 (stainless steel)	2	

PROCEDURE:

●Rearview mirror

Hold the mirror stem in one hand, remove the nut ④ with a sleeve, and remove the small pad ③, the spring ② and the large pad ①. Remove the mirror from the front brake master pump.

●Right handlebar to put rubber sleeve, balance block

Push the rubber sleeve (5) with the right handlebar to push forward to expose the upper balance block fixing hole; use the tool to press the convex parts at both ends of the elastic block on the balance block and pull out the balance block assembly (4), and then put the right handle Remove the rubber sleeve (5).

●Right handlebar half cover

Hold the front disc brake main pump (2) with one hand, and remove the bolt (7) with the hexagon socket tool. Remove the wire plug connector of the sub switch (6) and pull it out.

CAUTION:

●The motorcycle should be fixed after horizontal support.

●Periodically check that the fluid level of the brake fluid is between 3/4 of the observation window.

●Do not flush the cup directly with high pressure water.

●When assembling the balance block, align the protruding parts at both ends of the shrapnel with the fixing holes on the handle and then insert the direction into the holes.

●The small spacer of the rear view mirror anti-rotation limit slot needs to be aligned with the slot on the mirror bar bolt.

●The right handlebar refers to the switch to replace the throttle line.

●The joint between the front disc brake main pump and the half cover should be aligned with the right hand to match the triangle on the switch.

●Old switch can be replaced as new models.

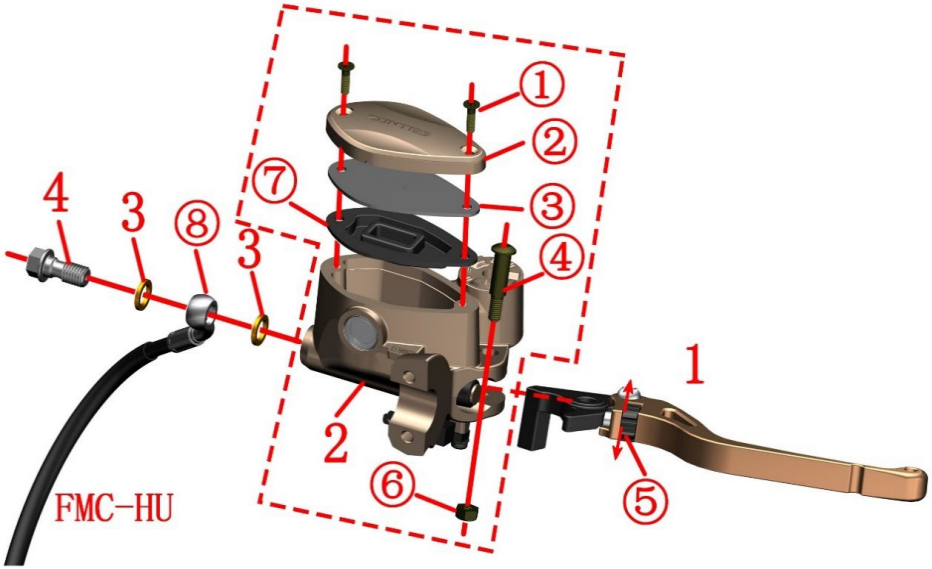


Fig.6 FRONT FORK COMPONENT		Add brake fluid, rocker adjustment	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1134100-032000	ZT250-R Right Hand Rocker (Machine)	1	
2	1100300-044000	Front brake main pump component (without handle)	1	
3	1251513-013000	Disc brake copper washer φ15×φ10.2×1.5	2	
4	1251100-112000	Disc brake oil pipe bolt M10×1-22	1	

CAUTION:

●The motorcycle should be fixed after horizontal support and check.

●Periodically check that the fluid level of the brake fluid is at 3/4 of the observation window.

●If the liquid level is under "LOWER", check the brake disc wear and brake system for leaks.

●If you swallow the brake fluid, contact poison control center or hospital immediately; if you get into your eyes, seek medical attention immediately after flushing with clean water.

●Keep brake fluid away from children and pets.

●Do not flush the cup directly with high-pressure water.

●Do not mix water, dust, impurities, and silicic acid or petroleum-based liquids, as this may cause serious damage to the brake system.

PROCEDURE:

● Front disc brake main pump

Fix the front disc brake main pump, remove the bolt (4) and copper pad (3) with the sleeve, and do not disassemble if it does not need to be replaced. Always replace the tubing connector 8 at a high level to prevent air from entering the tubing and cause brake failure. Also clean oil should be removed to prevent dripping onto parts such as covers or mufflers. After replacement, be sure to continuously hold the swing arm (1)and tap the disc brake main pump (2) to remove a small amount of gas entering the brake oil circuit, and confirm that the brake is returned to normal.

●Rocker

Rotating the adjusting nut ⑤ can adjust the distance between the rocker arm and the handle rubber sleeve to adapt to different driver's feel.

If you need to replace the rocker arm, use a hexagon socket tool to fix the bolt ④. Then use a socket or box wrench to remove the nut ⑥. Remove the bolt and remove the rocker arm (1).

●Add brake fluid

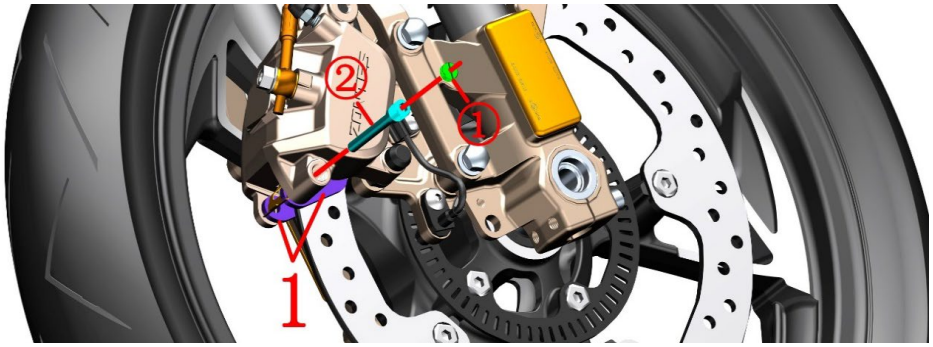
Before driving the motorcycle, check whether the brake fluid level is above the “LOWER” marking. If not, check the brake disc or brake disc for wear and whether there is any oil leakage or oil leakage in the brake system. Abnormal needs to add brake fluid.

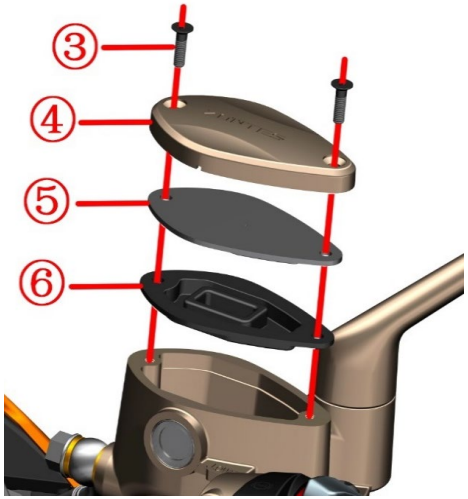
The brake fluid can only be added after the motorcycle is fixed horizontally.

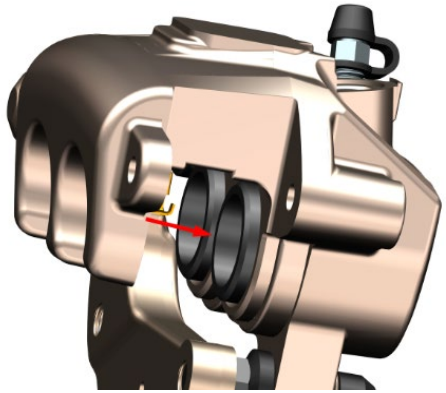
Remove the bolt ① with a Phillips screwdriver and remove the upper cover ②, the cover plate ③, and the seal gasket⑦.

Add DOT4 brake fluid to 3/4 of the transparent observation window of the front disc brake master pump.

Be sure to clean the foreign body before reassembling it.







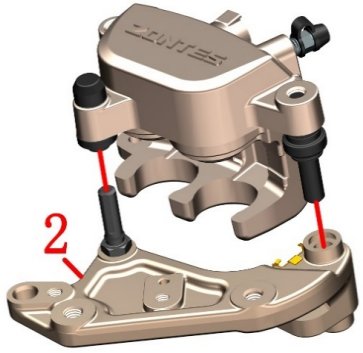


Fig. 7 FRONT FORK COMPONENT		Replace the front brake pads	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1100100-091000	ZT250-S front disc brake pads (H10)	1	After-sales
2	1100100-570000	ZT310-T front brake caliper mounting plate	1	

PROCEDURE:

●Replace the front brake pads

Use a flat-blade screwdriver to remove the nut ①.

Remove the pin ② with a hexagon socket tool.

Remove the brake pads (1).

Clean up foreign objects such as dust on the outer edge of the piston.

Use a Phillips screwdriver to remove the bolts ③ on the front disc brake main pump assembly, and remove the upper cover ④, cover plate ⑤, and sealing gasket ⑥.

Push the piston to the end in the direction of the arrow.

Restore the front disc brake main pump assembly and make sure it is properly assembled.

When inserting a new brake pad, be sure to place the brake pad in the card slot of the card as shown in the lower left figure.

Lock the pin ② with a hexagon socket tool.

Use a flat-blade screwdriver to tighten the nut ①.

Hold the brake handle repeatedly until the braking force is restored.

●Front brake caliper mounting plate

Remove the mounting plate (2) from the caliper. Be careful not to lose the shrapnel of the front brake caliper.

CAUTION:

●The vehicle support should be fixed before operation.

●The wear of the brake pads and brake discs should be checked regularly. Check whether the brake fluid in the main disc observation window of the front disc brakes is at 3/4.

●When replacing the brake pads, it is strictly forbidden to remove the oil pipe bolts and the vent bolts to prevent the air from entering the pipeline and causing the brake to fail.

●After disassembling the front disc brake main oil cup cover, the front end should not be shaken to prevent the brake fluid from overflowing.

●After the replacement of the brake pads, it should be carried out for about 300 kilometers to fully achieve the best braking effect. Care should be taken to ensure adequate braking distance during running-in.

● It is recommended to replace the brake pads in pairs with qualified maintenance units.

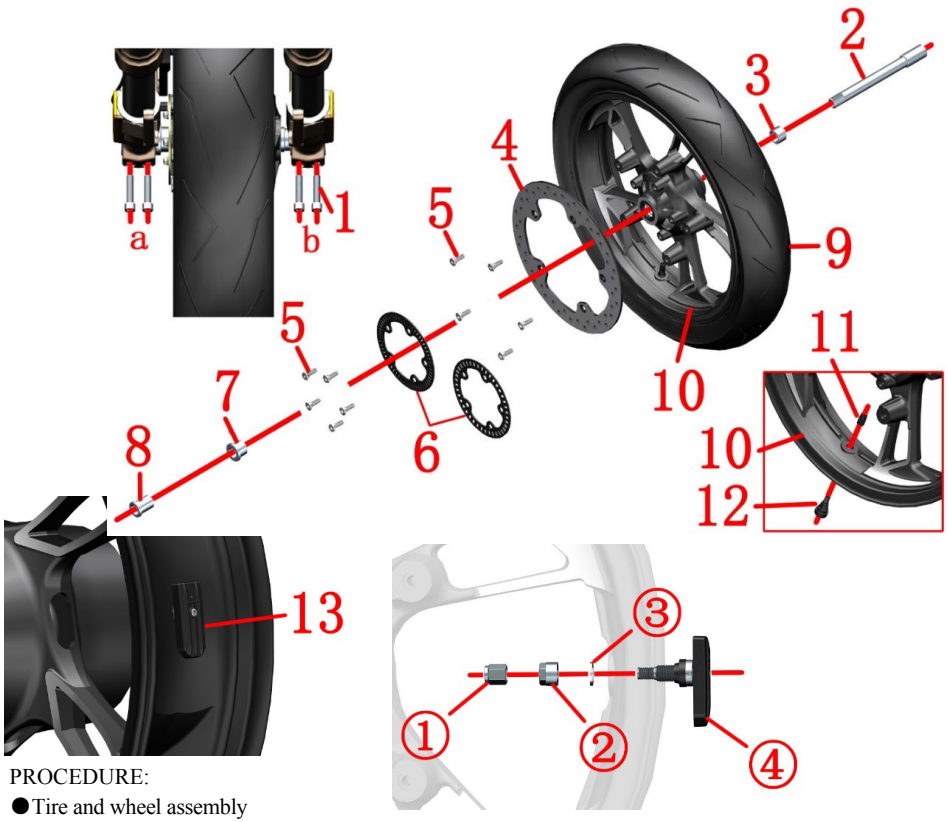


Fig.8 FRONT FORK COMPONENT		Front wheel component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-023000	GB70.1 Hexagon M8×35 (color zinc)	4	20N.m
2	1094100-033000	ZT250-R Front wheel hollow shaft	1	
3	1094100-008000	ZT250-R Front wheel left sleeve	1	
4	1100100-418000	ZT310-R1 Front brake disc (300×4.5)	1	
5	1251100-117093	Non-standard internal hexagon bolt M8×25	10	
6	1274200-168021	ABS gear ring(40T)	1	
	1274200-058000	ABS gear ring(60T)		
7	1094100-036000	ZT250-R Front right axle sleeve	1	
8	1094100-037000	ZT250-R Front wheel right fixed bushing	1	
9	1230100-479000	110/70R17(CM638R) environmentally friendly vacuum front tire	1	
10	1094200-026000	ZT310-R Black front rim (3.0×17)	1	
11	1230200-006000	HJ100-D Tire valve cap	1	Delphi EFI
12	1230100-047000	HJ125-3A Environmental vacuum tire valve (TR-412)	1	
13		ZT310 tire pressure sensor	1	Bosch EFI

PROCEDURE:

●Tire and wheel assembly

Remove the 2 bolts (1) on the left front shock absorber bottom b with the Allen tool. Hold the front wheel first and then remove the hollow shaft (2) with the internal hexagon tool, remove the left sleeve (3), and move the front wheel assembly downward to remove the right sleeve (7) and front wheel assembly. Finally, remove the right fixing sleeve (8) and use the hexagonal tool to remove the 2 bolts (1) of the right front shock absorber.

●Brake disc, ABS ring gear

Remove the bolt (5) and then remove the ABS ring gear (6) and the brake disc (4).

●Tire and rim assembly

Delphi EFI:Unscrew the valve cap (11) and use the tool to release the air. Remove the tire (9) with a professional tire extractor. Finally remove the valve (12) with a suitable tool. Bosch EFI: Unscrew the nut ① to release the air, unscrew the nut ②, and take out the flat gasket ③. Then use a professional tire puller to remove the rear tire (1). Finally, take out the sensor ④.

CAUTION:

●Use a suitable tool to support the motorcycle to prevent accidents caused by dumping during disassembly.

●Take care when disassembling tires and rims to prevent damage to the material.

●After replacing the tire, check for leaks and balance.

●Unqualified tire repair fluid may corrode rims and cause safety hazards.

●Insufficient tire pressure may cause steering vibration, abnormal wear, etc.; summer tire pressure is too high there is a risk of puncture.

●Only bike with Bosch EFI are equipped with standard (13) tire pressure sensors

●Maintenance items

Tires: The tires should be regularly inspected for cracks, cracks, air pressure, etc. If the tread wear indicator has been worn out, the tire of the same specification type must be replaced. Refer to the relevant content of the manual for details.

Rim: Check the rim for any deformation, cracks, etc. Rotate the rim horizontally to check for stuck, oscillating, etc.Rim seal φ42 × φ28 × 7; bearing model: 6004-2RS.

Axle: Use a dial indicator to check for deformation and bending.

Brake disc: After replacing the brake disc, the new brake disc should be operated for about 300 kilometers to fully run in order to achieve the best braking effect. Be careful to leave enough braking distance during running-in.

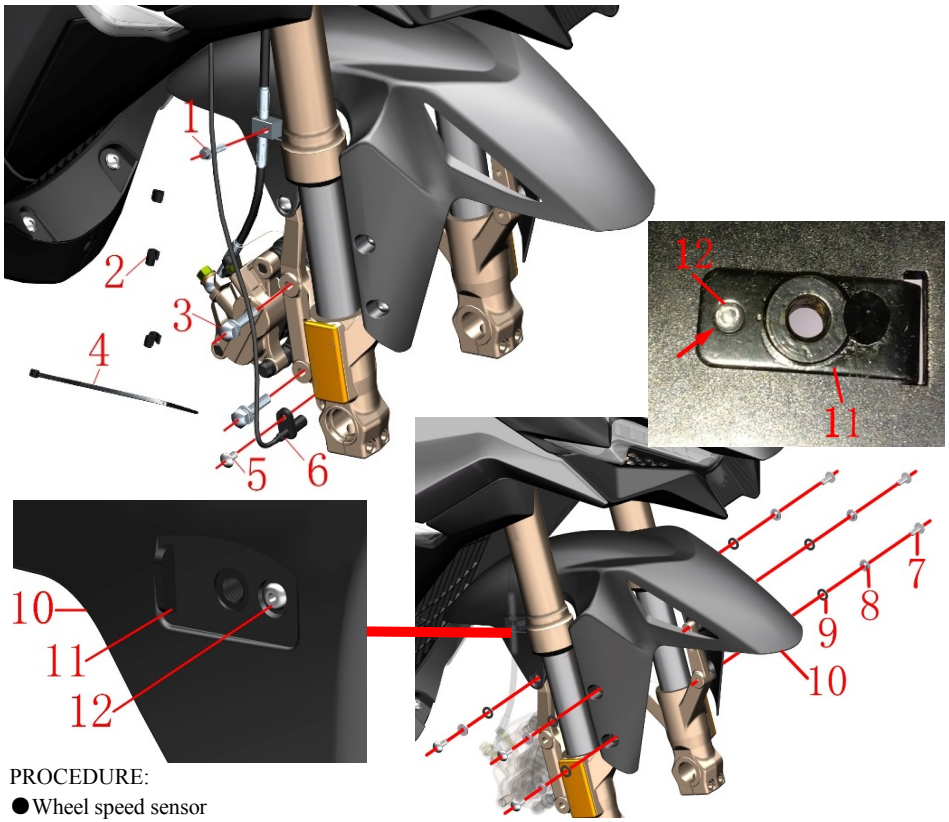


Fig.9 FRONT FORK COMPONENT		Front mudguard & wheel speed sensor component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Hex flange face full thread bolt	1	
2	1224100-044000	Wheel speed sensor clamp	3	
3	1251100-080094	Non-standard bolt M8×37 (color zinc)	2	
4	1224100-051000	0 Flame retardant tie (black 2.5×100)	1	
5	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	1	
6	1184100-081000	ABS Anti-lock braking system wheel speed sensor	1	stop selling
	1184200-045000	DF30wheel speed sensor		
7	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	6	
8	1274100-057095	Bush φ6.2×φ8.4×3.5＋φ14×1.5	6	
9	1244100-052000	Gum cushion, bush（φ8.5×φ14×1）	6	
10	4044201-383063	bright blue front mud board component	1	blue
	4044201-386001	pearl white front mud board component		white
	4044201-384021	special black front mud board component		black
	4044201-385051	deep bright gray front mud board component		gray
	4044201-387011	ruby red front mud board component		red
	4044201-391001	pearl white front mud board component（GP）		white GP
	4044201-390021	special black front mud board component（GP）		black GP
	4044201-392051	deep bright gray front mud board component（GP）		gray GP
11	1274200-038000	ZT310-X Front mudguard front oil pipe fixing seat	1	
12	1250402-001091	GB12615φ3×10	1	

PROCEDURE:

●Wheel speed sensor

Pull out the plug of the wheel speed sensor(6); then remove the clamp(2). Cut the tie (4); remove the bolt (3) and remove the sensor(6).

●Front disc brake caliper

Remove the bolts(1) and (3) so that the caliper will hang down naturally. It is forbidden to invert the caliper to prevent the air from entering and causing the brake to fail.

●Front mudguard

Hold the front mud plate(10) with your hand and then remove the 4 bolts(7) with the hexagonal tool and remove the bushing(8) and cushion rubber(9).

Remove the front mudguard(10).

The inside of the front mudguard can be protected with reticle or double-sided tape around the rivet(12), then the rivet(12) is ground off with a small sander, and then the rivet(12) and the fixing seat(11) are removed.

CAUTION:

●The motorcycle support should be fixed during the disassembly process to prevent accidents caused by incline.

●Disassemble the oil pipe clamp and the sensor wire clamp should pay attention to the strength.

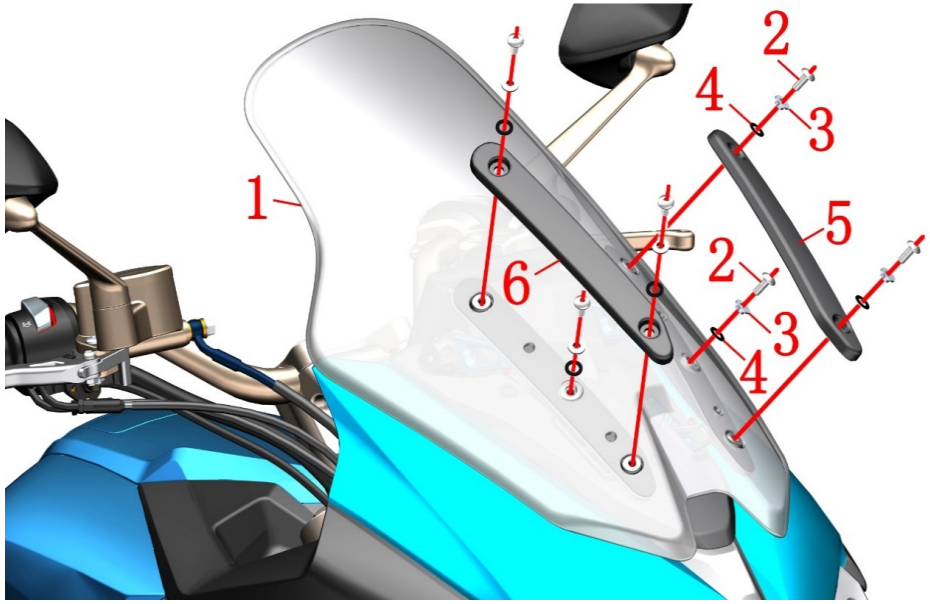
●Pay attention to the strength when disassembling the front mud plate to prevent scratching the paint surface.

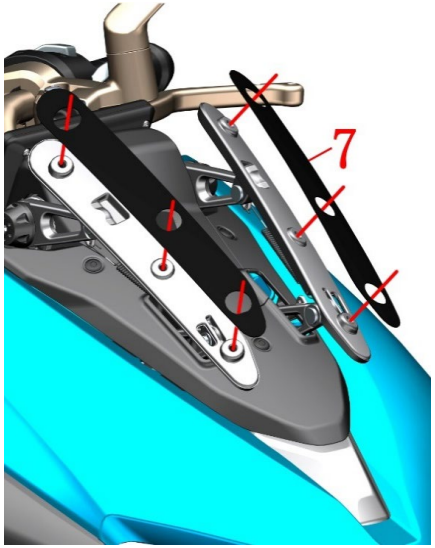
●The ABS Anti-lock braking system wheel speed sensor has been stop selling ,it can be replaced as DF30 wheel speed sensor.

●The mudguard component has been included Front mudguard front oil pipe fixing seat(11) and Rivet(12).

1184100-081000

1184200-045000





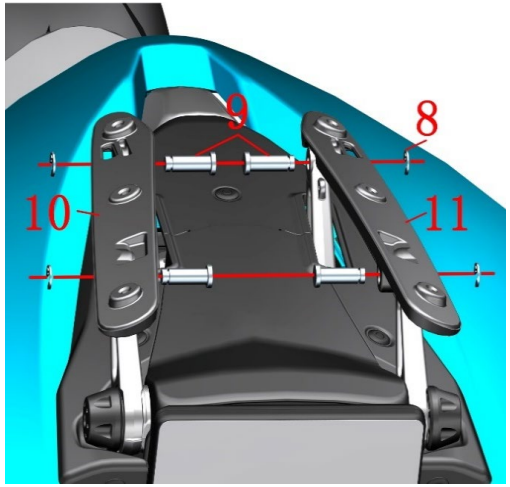


Fig.10 FRONT FORK COMPONENT		Windshield assembly 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-139000	ZT310-X1 windshield	1	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	6	
3	1274100-057095	Bush φ6.2×φ8.4×3.5＋φ14×1.5	6	
4	1244100-052000	Gum cushion, bush （φ8.5×φ14×1）	6	
5	1224200-132000	ZT310-X1 windshield upper left pressure block	1	
6	1224200-133000	ZT310-X1 windshield upper right pressure block	1	
7	1244200-080000	ZT310-X1 windshield lower pressure block pad	2	
8	1264100-006000	ZT250-S pedal circlip	4	
9	1274200-030000	Windshield lower pressing block rotating shaft	4	
10	1274200-204000	ZT310-X1 windshield lower left clamp	1	
11	1274200-205000	ZT310-X1 windshield lower right clamp	1	

PROCEDURE:

●windshield assembly

Remove the two bolts(2) on the left side, and remove the two parts of the bushing (3) and the rubber pad (4) and the left pressure block (5) on the windshield. Remove the right clamp(6) on the windshield as described above. Hold the windshield (1) and remove the bolt(2) under the upper clamp, remove the bushing(3) and the rubber pad (4) and remove the windshield. .

Remove the clamp pad(7).

●Windshield press block assembly

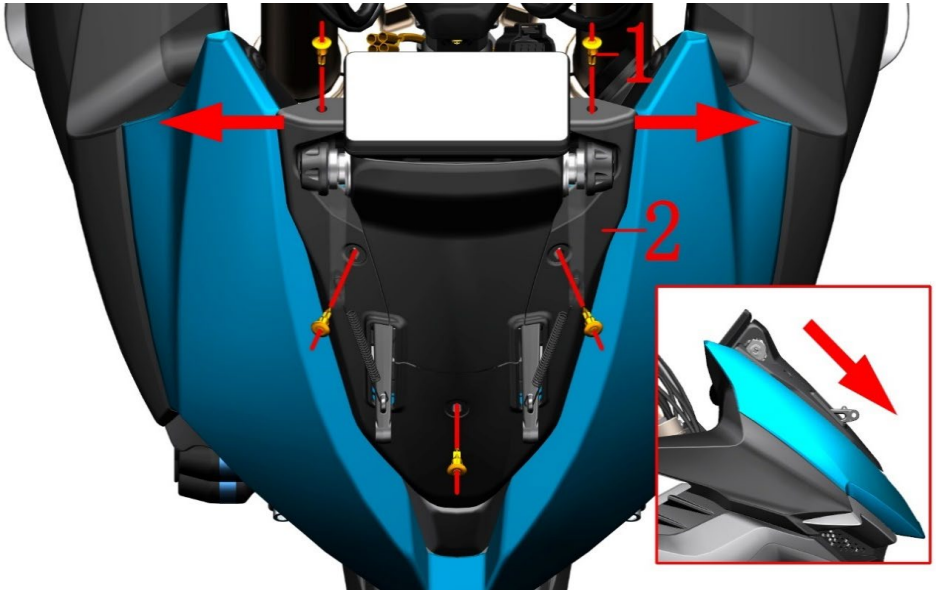
Hold the lower left clamp(10) and use the tool to push the circlip(8) out, then remove the rotary shaft(9). Remove the lower left clamp (10).

Remove the right clamp(11) as described above.

CAUTION：

●The windshield should be protected during the disassembly process to prevent scratches.

●The circlip is small, keep it in good condition during the disassembly process, and prevent it from falling into the vehicle interior.



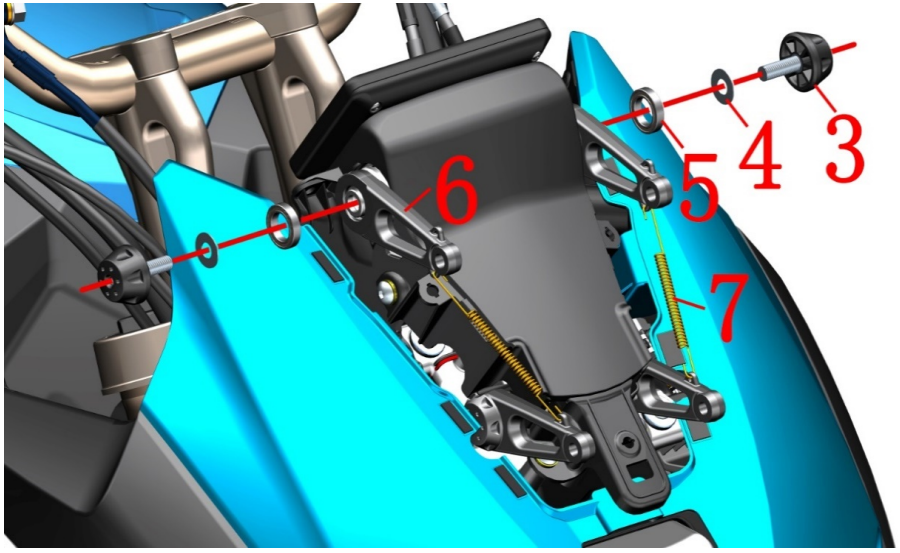


Fig.11 FRONT FORK COMPONENT		Windshield assembly 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S swell nail	5	
2	1224200-131000	ZT310-X1 windshield trim	1	
3	1224200-093000	ZT310-T head cover on rocker arm decorative block	2	
4	1274200-136000	ZT310-T head cover upper rocker gasket	2	
5	1250601-093000	6802 deep groove ball bearing	2	
6	1274200-114000	ZT310-T windshield rocker arm	2	
	4024200-078051	ZT310-T windshield rocker arm (matte dark gray)		
7	1260100-218000	ZT310-T head cover rocker extension spring	2	

PROCEDURE:

●Windshield trim

Remove the 5 expansion screws (1), pull the windshield trim slightly in the direction of the arrow and push it diagonally downward (in the direction of the arrow shown in the small figure). Remove the windshield trim (2).

●Windshield rocker arm component

Remove the upper rocker trim (3) with a hexagonal tool and remove the washer (4) and bearing (5). Remove the windshield rocker arm (6) and spring (7).

CAUTION：

●Remove the windshield trim to pay attention to the strength and direction.

●Prevent small parts from falling inside the vehicle.

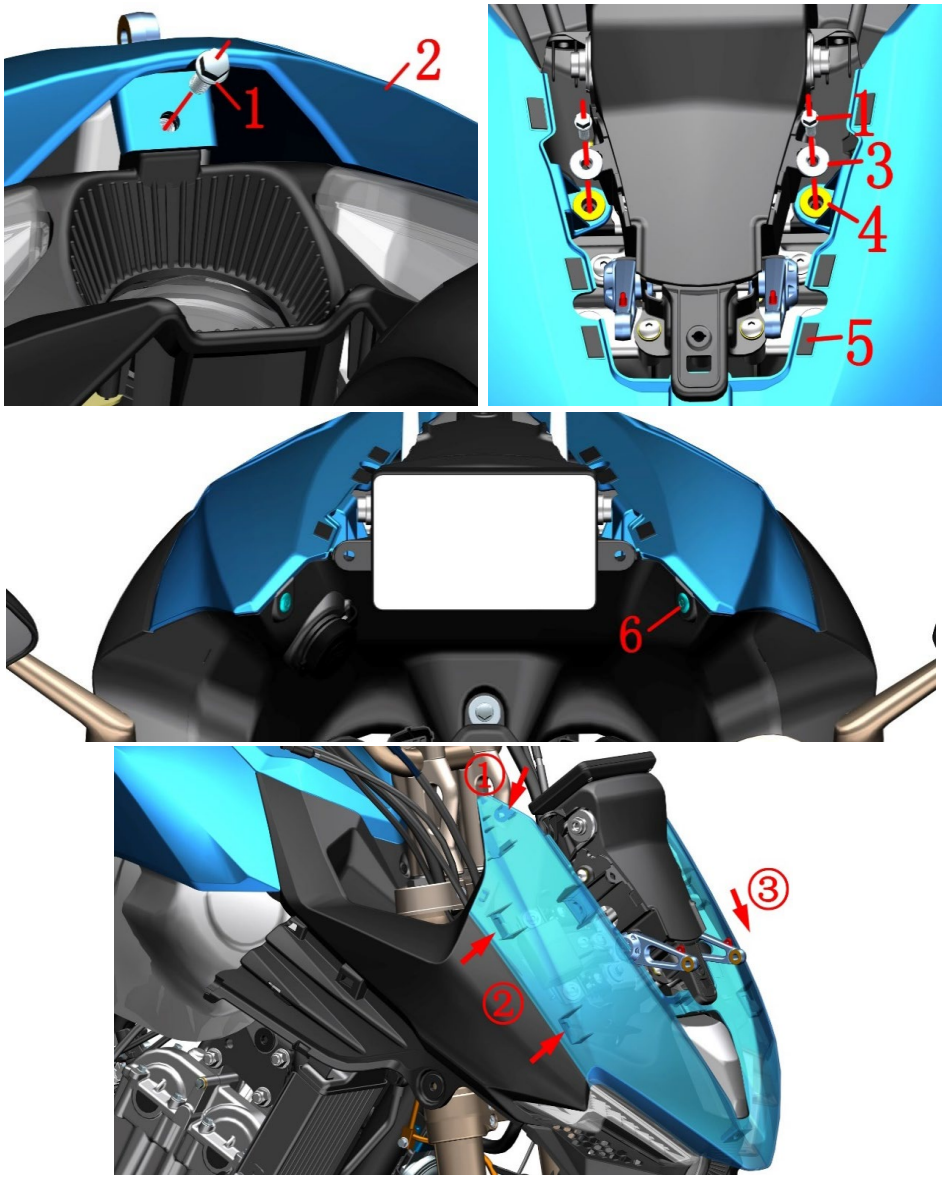


Fig.12 FRONT FORK COMPONENT		Head cover panel assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251112-001093	M6×16 hex flange bolt (environmental color zinc)	3	
2	4044201-001064	ZT310-X bright blue hood panel	1	
	4044201-050001	ZT310-X pearl white hood panel		
	4044201-040021	ZT310-X special black hood panel		
	4044201-096015	ZT310-X gemstone red hood panel		
	4044201-040051	ZT310-X deep gray hood		
	4044201-228002	ZT310-X2 Pearl White Head Cover Panel (Red GP Version)		
	4044201-227021	ZT310-X2 special black hood panel (gem red GP version)		
	4044201-229052	ZT310-X2 Deep Bright Gray Head Cover Panel (Bright Blue GP Version)		
3	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	2	
4	1244100-004000	ZT250-S Flanging Bushing Buffer	2	
5	1244100-081000	Black foam single-sided tape	1	
6	1224100-010000	ZT250-S swell nail	2	

PROCEDURE:

●Head cover panel assembly

Remove the bolt(1) at the bottom of the hood panel.

Remove the 2 bolts(1) at the top of the hood panel and remove the bushing(3).

Use a small Phillips screwdriver to push down the center of the expansion pin and remove the 2 expansion pins (6).

Grasp the two sharp corners near the expansion pin(6)and gently sway the buckles on both sides of the hood panel(2).

Grasp the two sharp corners near the expansion pin(6) and gently sway the buckles on both sides of the hood panel(2).

Remove the black tape (5) from the hood panel(2). The black foam tape is 1 meter long. Use only a small amount to cut the short 6 points. The rest can be used to connect other covers to prevent abnormal noise.

Remove the cushion rubber (4) from the hood panel(2).

CAUTION：

●Protect protective measures to prevent scratching the paint surface.

●Pay attention to the force when opening the buckle to prevent the buckle from breaking due to excessive force.

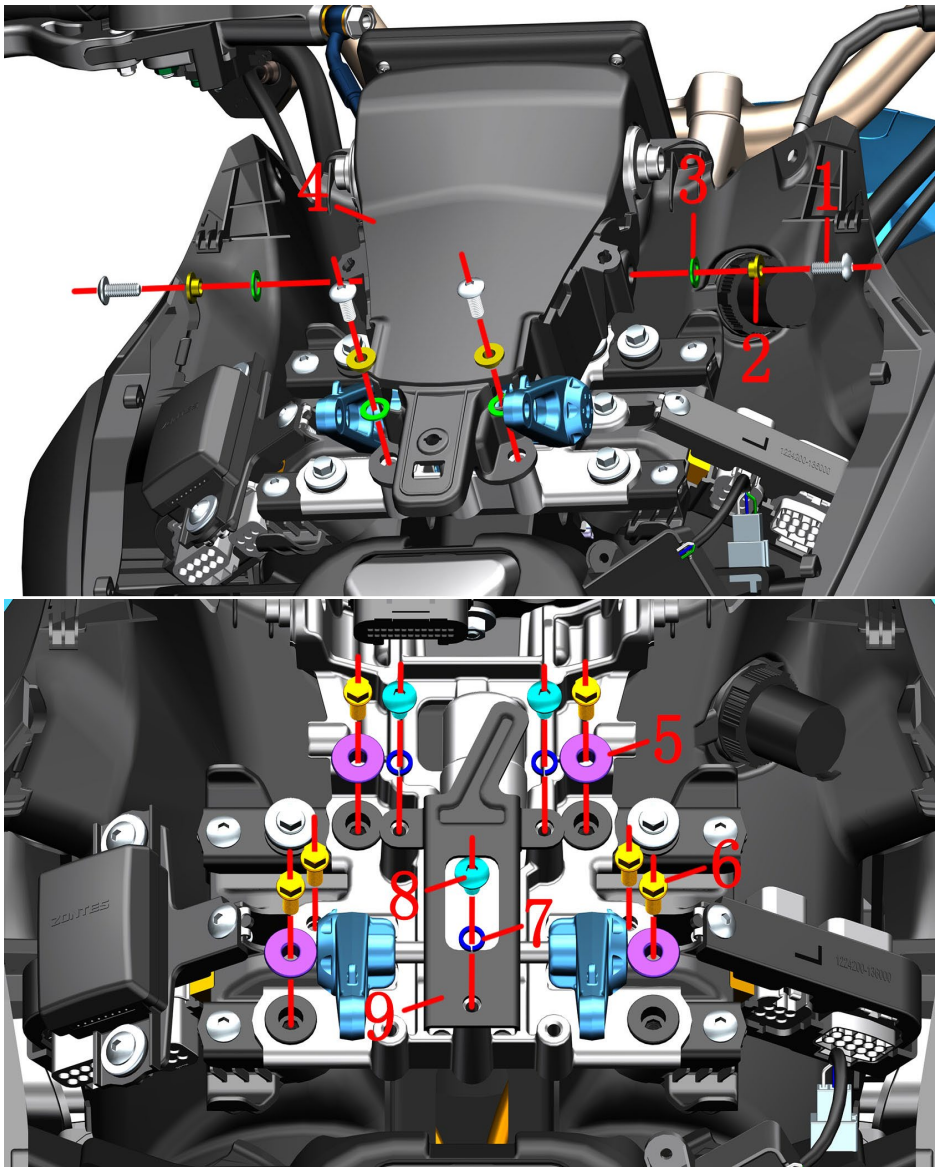


Fig.13 FRONT FORK COMPONENT		Windshield base assembly 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	4	
2	1274100-057095	Bush φ6.2×φ8.4×3.5＋φ14×1.5	4	
3	1244100-052000	Gum cushion, bush（φ8.5×φ14×1）	4	
4	1224200-130000	ZT310-X1 windshield motor cover	1	
5	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	4	
6	1251112-001093	M6×16 hex flange bolt (environmental color zinc)	6	
7	1250501-010000	GB93φ6 spring pad	3	
8	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	3	
9	1274200-137000	ZT310-T motor pressure plate	1	

PROCEDURE:

● Windshield motor cover

Remove the four bolts(1), remove the bushing(2)and the cushion rubber(3); remove the motor cover(4).

Locate and unplug the cable connector of the meter and windshield motor.

● Windshield motor

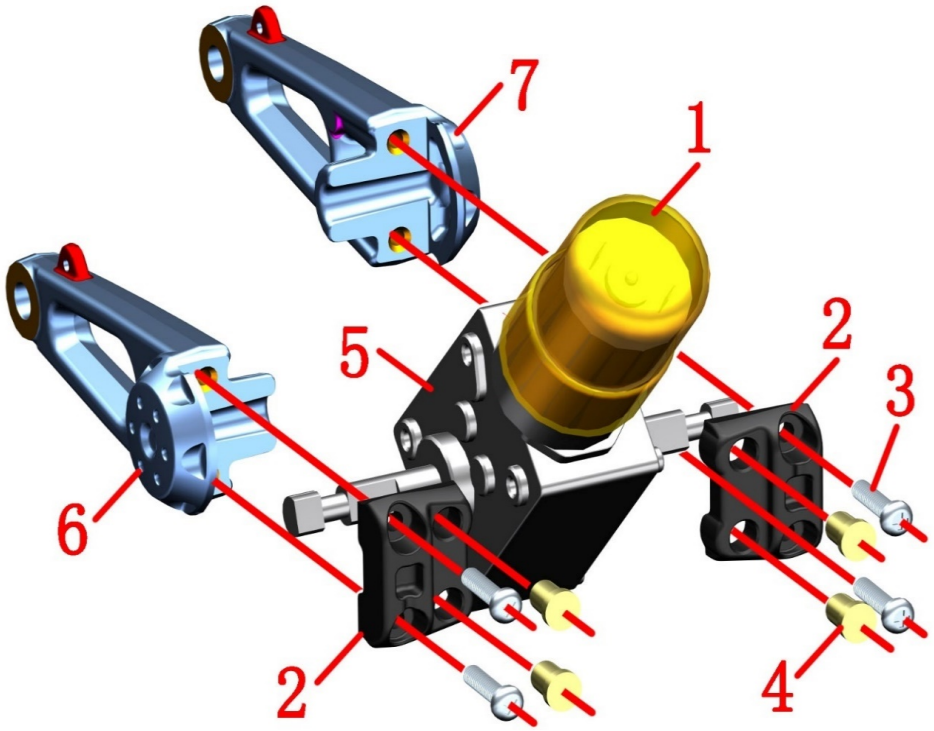
Remove the 3 bolts(8) and remove the 3 spring washers(7); remove the motor pressure plate(9).

Remove the windshield motor assembly.

Remove the 6 bolts(6) and remove the bushing(5) to remove the windshield base and instrument assembly.

CAUTION：

● Do not pull the cable directly when pulling the plug.



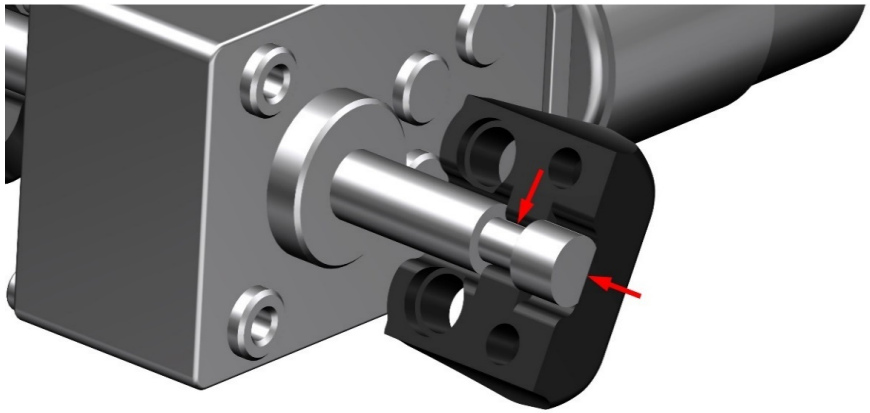


Fig.14 FRONT FORK COMPONENT		Windshield base assembly 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244200-074000	ZT310-T windshield motor sheath	1	
2	1274200-118000	ZT310-T lower rocker clamp	2	
	4024200-081051	ZT310-T lower rocker clamp (matte dark gray)		
3	1250201-046000	GB818 cross recessed pan head screw M4×16 (environmental color)	4	
4	1244200-075000	ZT310-T windshield front rocker buffer rubber	4	
5	1184200-074000	ZT310－Twindshield motor	1	
6	1274200-143000	ZT310-T hood lower left rocker	1	
	4024200-079051	ZT310-T hood lower left rocker (matte dark gray)		
7	1274200-144000	ZT310-T hood right lower rocker	1	
	4024200-080051	ZT310-T hood right lower rocker (matte dark gray)		

PROCEDURE:

●Windshield motor parts

Remove the motor sheath(1) and 4 pieces of cushion rubber(4).

Grab the lower left rocker arm(6). Remove the 2 screws(3) with a Phillips screwdriver and remove. Remove the rocker arm clamp(2).

Grab the lower right rocker arm(7). Remove the 2 screws(3) with a Phillips screwdriver and remove. Remove the rocker arm clamp (2).

CAUTION：

● Do not pull the cable directly when pulling the plug.

●Pay attention to the limit plane and limit groove of the motor and rocker clamp when reassembling.

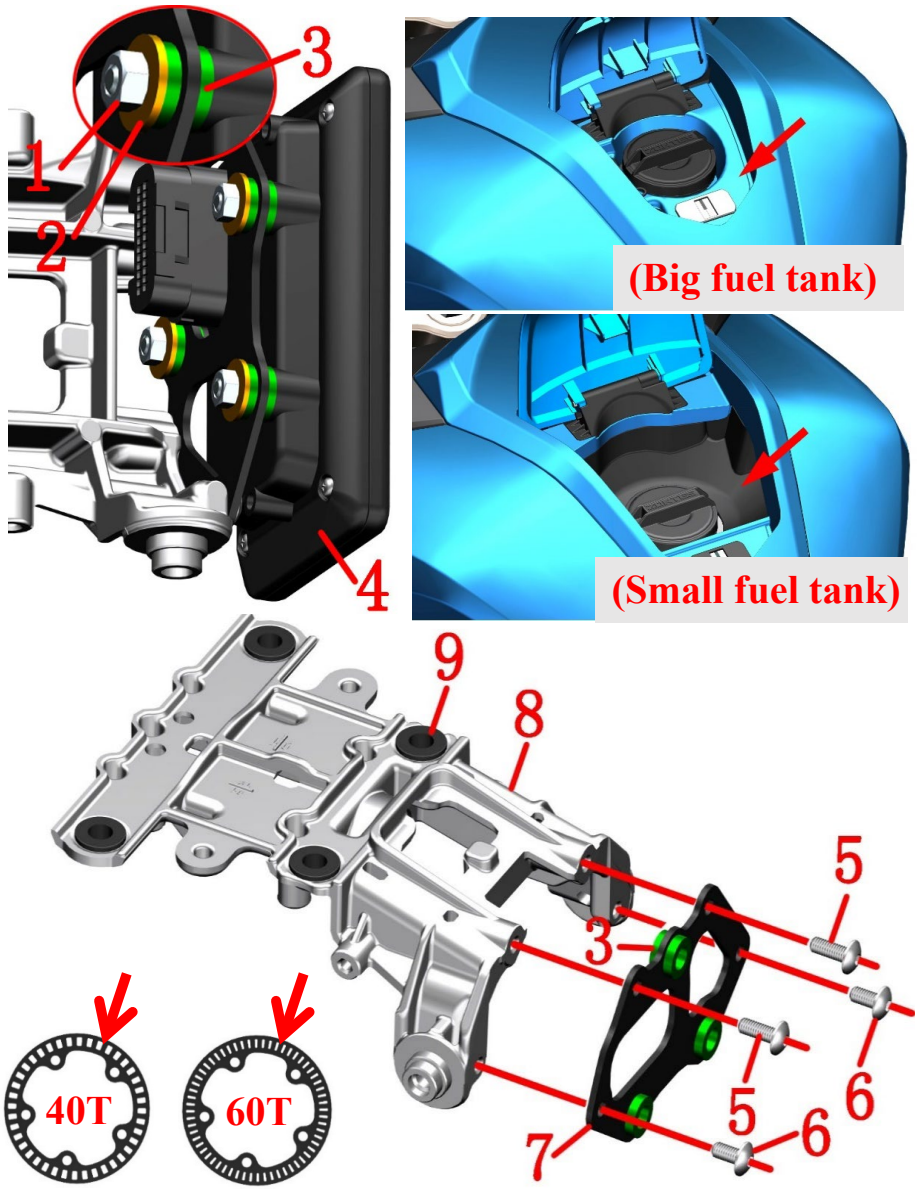


Fig.15 FRONT FORK COMPONENT		Windshield base assembly 3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250301-020093	GB6170M6 (environmental color)	3	
2	1250502-010093	GB96.1φ6(environmental color)	3	
3	1244200-092000	ZT310TFT instrument buffer pad	3	
4		ZT310 universal TFT instrument	1	
5	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
6	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
7	1274200-206000	ZT310-X1 instrument (TFT) bracket	1	
8	1274200-203000	ZT310-X1 windshield base	1	
9	1244100-004000	ZT250-S Flanging Bushing Buffer	4	

PROCEDURE:

●Meter

First remove the 3 nuts (1) with a Torx wrench, remove the gasket (2); remove the meter(4).

●Windshield base

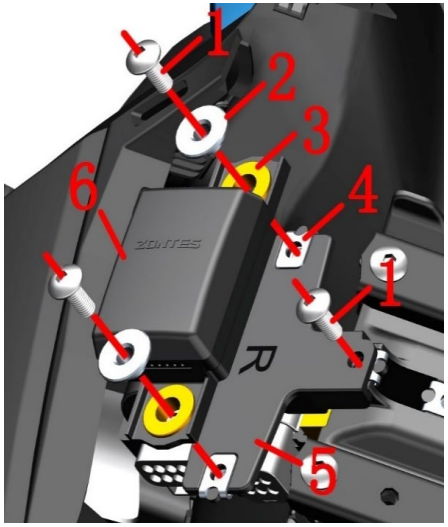
Remove the 2 bolts(5)and 2 bolts (6) to remove the instrument bracket(7) from the windshield base.

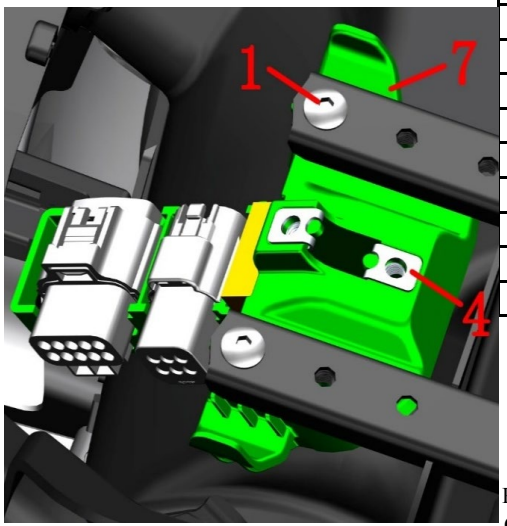
Remove 3 pieces of cushion rubber (3) from the meter bracket(7).

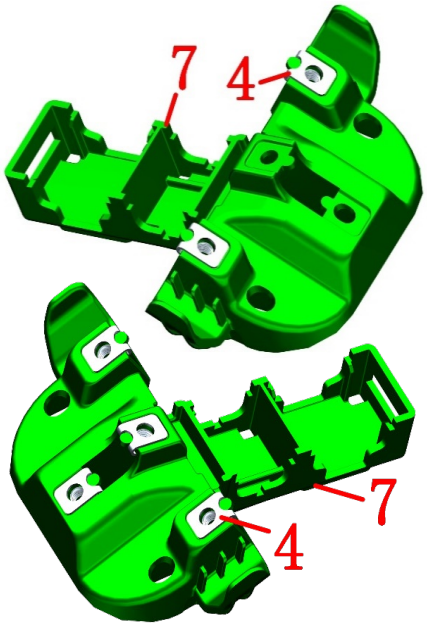
Remove 4 pieces of cushion rubber(9) from the windshield base(8).

CAUTION：

●Protect protective measures to prevent scratching the instrument lens.







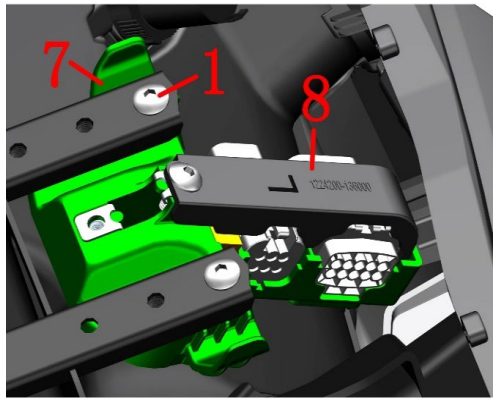


Fig.16 FRONT FORK COMPONENT		Wire clamp	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	10	
2	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	2	
3	1244100-004000	ZT250-S Flanging Bushing Buffer	2	
4	1251300-063093	Splint M6×11×15 (environmental color)	10	
5	1224200-137000	ZT310-X1 wire clamp right cover	1	
6	1184200-073000	ZT310-T windshield motor controller	1	
7	1224200-134000	ZT310－X1 Wire clamp	2	
8	1224200-136000	ZT310－X1 wire clamp left cover	1	

PROCEDURE:

●Motor Controller

First unplug the motor controller, remove the two bolts(1), remove the bushing (2)and remove the controller(6). Remove the cushion rubber(3) from the controller.

●Wire clamp right cover

Remove the bolt(1)and remove the wire clamp right cover(5). Remove the 2 plywood nuts(4)from the right cover.

●Wire clamp

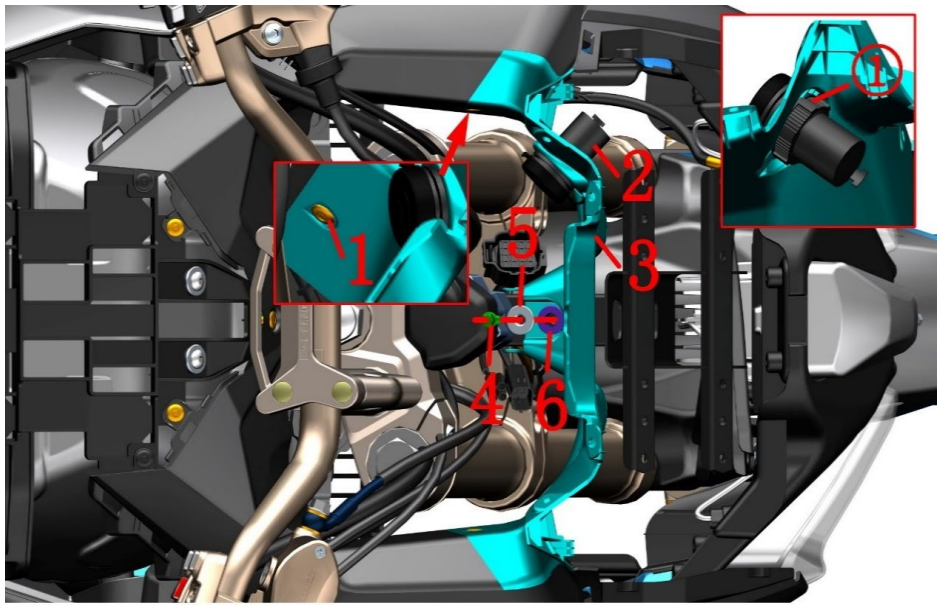
First remove the cable connector from the wire clamp, and then remove the two bolts (1) to remove the wire clamp(7) from the frame. Remove the 4 plywood nuts(4) from the wire clamp.

Remove the wire clamp left cover(8) and the left wire clamp (7) by referring to the above procedure.

CAUTION：

● Do not pull the cable directly when pulling the plug.

●The wire clamp is common to the left and right; the wire clamp cover is not universal.



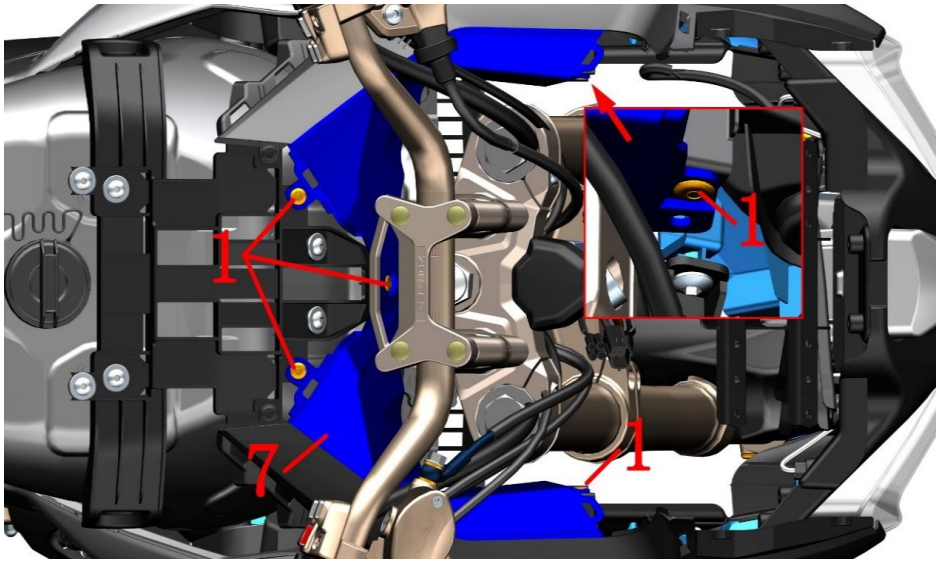


Fig.17 FRONT FORK COMPONENT		Surrounding interior components	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S expansion nail	7	
2	1184200-100000	ZT310 dual-port universal USB charging cable	1	
3	1224200-138000	ZT310-X1 head surrounds the front interior	1	
4	1251112-001093	M6×16 hex flange bolt (environmental color zinc)	1	
5	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	1	
6	1244100-004000	ZT250-S Flanging Bushing Buffer	1	
7	1224200-026000	ZT310-X head surrounded by rear interior	1	

PROCEDURE:

●Front enclosure interior components

Use a small Phillips screwdriver to push down the center of the swell nail and remove the 2 swell nails(1).

Locate and unplug the USB charging cable(2).

Remove the bolt(4) and remove the bushing(5).

Hold the left envelop in one hand and gently sway back and forth from the left side of the interior to the back of the car in the first hand. Separate the front enclosure interior assembly from the rear enclosure interior component.

Grasp the front enclosure components, remove the nut ① from the USB charging cable(2), and remove the the cushion rubber(6).

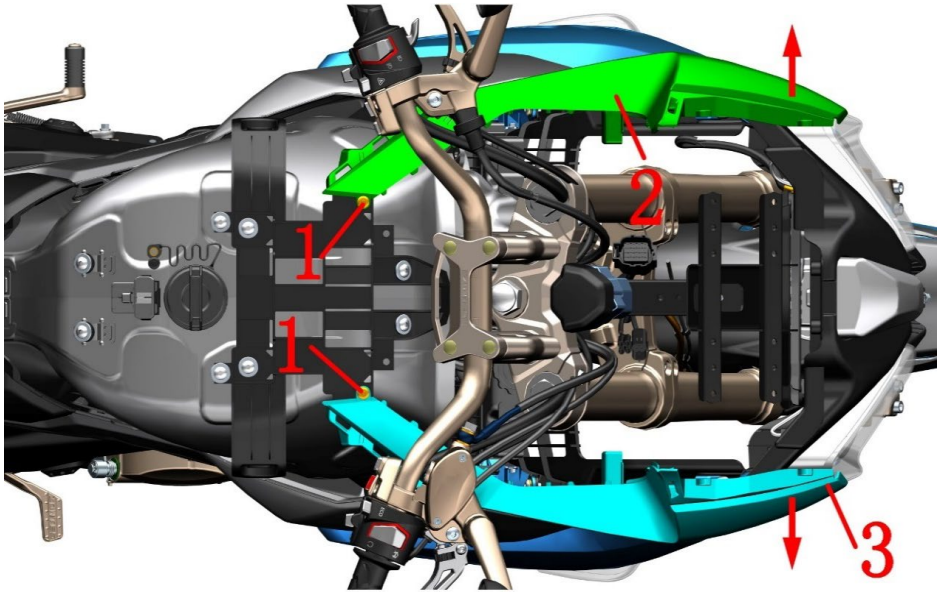
●Rear enveloping interior components

Use a small Phillips screwdriver to push down the center of the swell nail and remove the 3 swell nails(1). Come back slightly after shaking and surround the interio(7) and take off after loosening.

CAUTION：

●Do not pull the cable directly when pulling the plug.

●Pay attention to the force when opening the buckle to prevent the buckle from breaking due to excessive force.



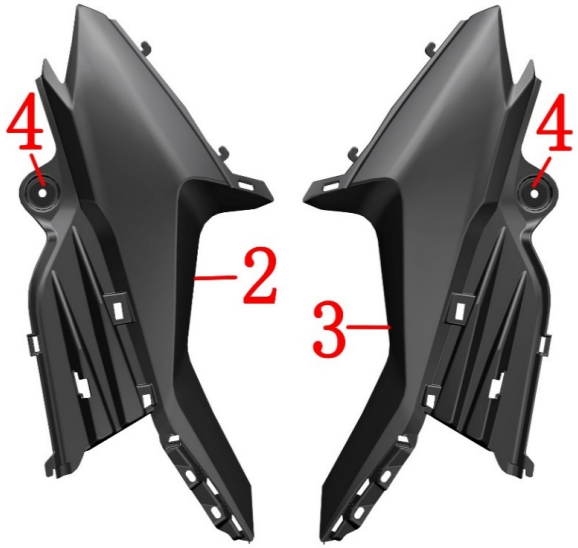


Fig.18 FRONT FORK COMPONENT		Left and right hood assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S swell nail	2	
2	1224200-024000	ZT310-X hood left	1	
3	1224200-025000	ZT310-X hood right side	1	
4	1244100-002000	ZT250-S side cover round glue	2	

PROCEDURE:

●Left hood assembly

Use a small Phillips screwdriver to push down the center of the swell nail and remove the swell nail(1).

Grab the head with one hand and pull the middle of the hand in the direction of the arrow to remove the left part of the hood.

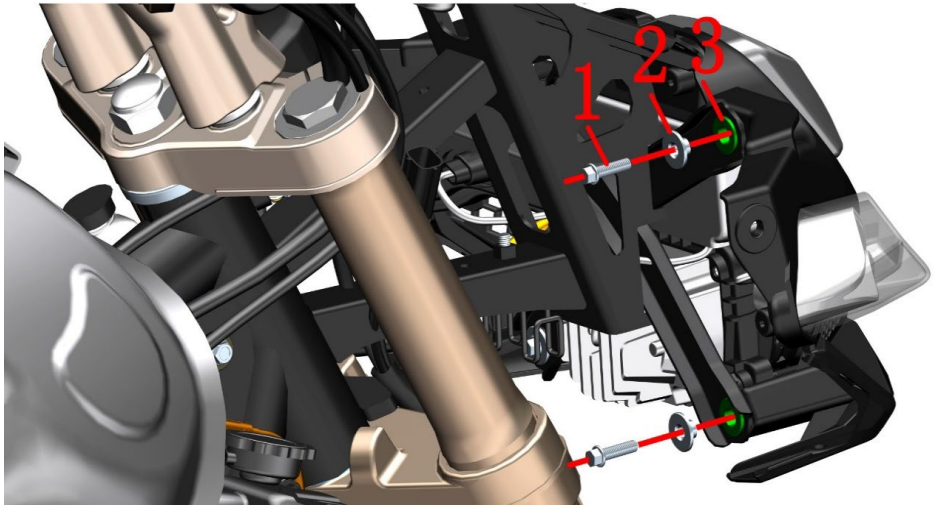
Remove the side cover round rubber(4)from the left part(2) of the hood.

●Right hood assembly

Remove the right side cover(3)and the side cover round rubber(4) as described above.

CAUTION：

●Pay attention to the strength and direction when opening the staples to prevent the buckle from breaking due to excessive force.



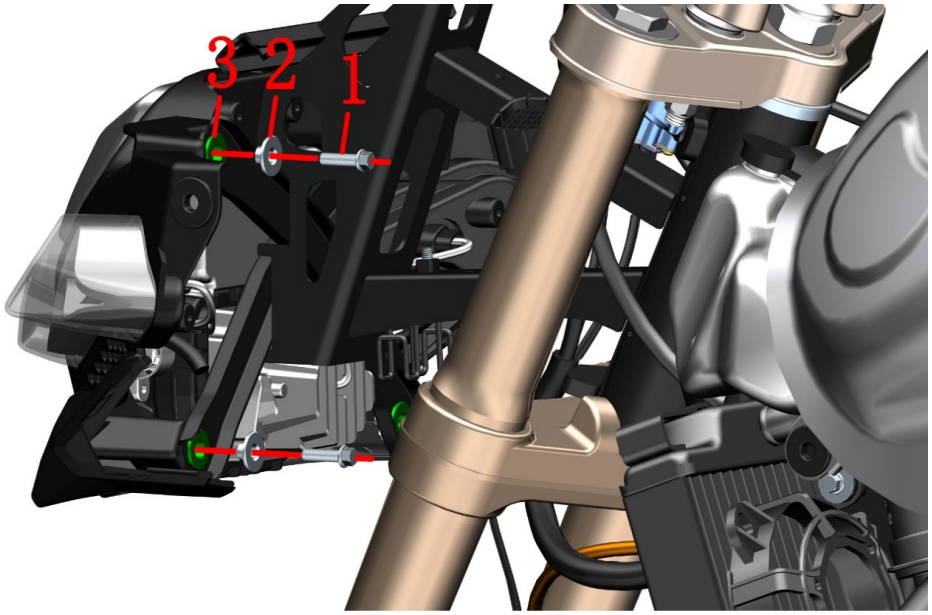


Fig.19 FRONT FORK COMPONENT		Headlight assembly 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 hex flange face full thread bolt	4	
2	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	4	
3	1244100-004000	ZT250-S Flanging Bushing Buffer	4	

PROCEDURE:

●Headlight assembly

Unplug all the wires slot from the light.

Hold the bottom of the headlights, first remove the 2 bolts on one side(1), then remove the other side. Remove the headlight assembly.

If only the headlights are removed, the bushing(2)) and cushion rubber(3) should not be removed from the frame.

CAUTION：

●Do not pull the cable directly when pulling the plug.

●The lamp cover should be protected during the disassembly process to prevent scratches.

●Before reassembling, check whether the waterproof rubber ring in the plug is missing or whether the stylus is bent.

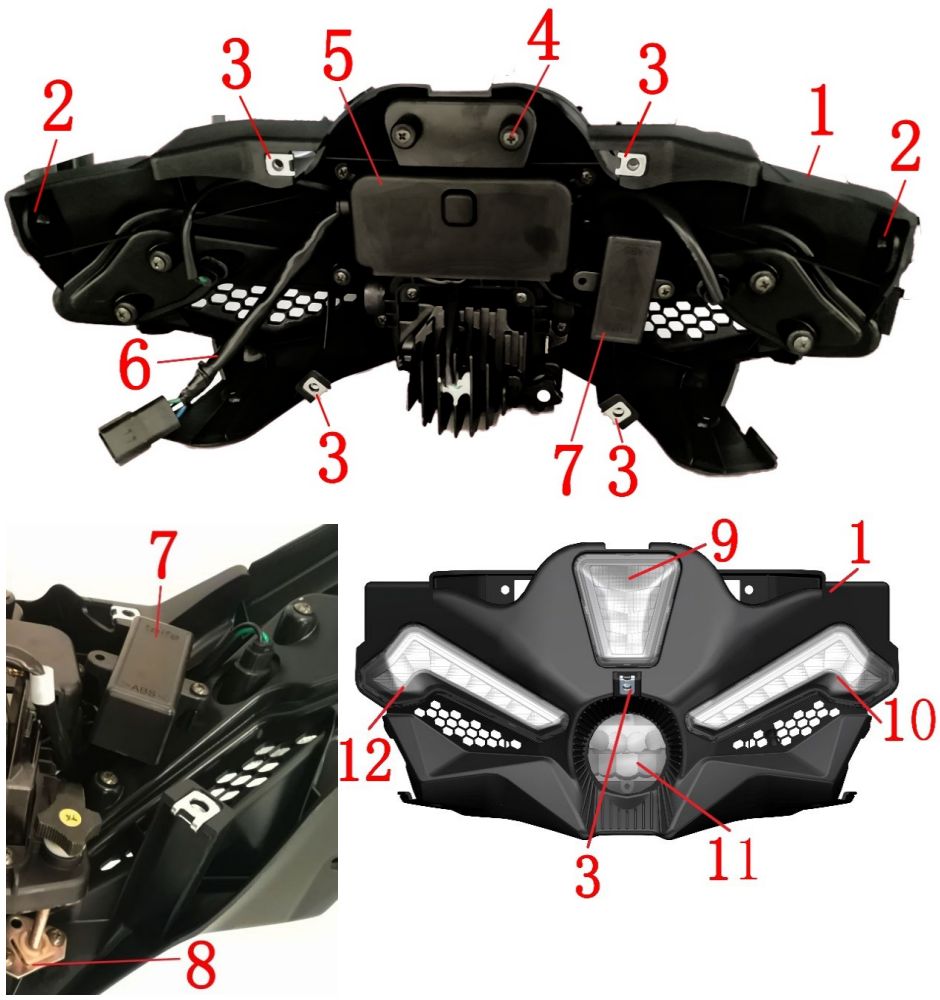


Fig.20 FRONT FORK COMPONENT		Headlight assembly 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-063000	ZT310-X headlights protection shell	1	Normal
	4044201-231000	ZT310－X2 headlights protection shell（red GP version）		white GP
	4044201-230000	ZT310－X2 headlights protection shell（ruby red GP version）		black GP
	4044201-232000	ZT310－X2 headlights protection shell（bright blue GP version）		gray GP
2	1244100-002000	ZT250-S side cover round glue	2	
3	1251300-063093	Splint M6×11×15 (environmental color)	5	
4	1251200-045000	ZT310-X headlight self tapping screw（ST4×12)	20	
5	1224200-104000	ZT310-X headlight rear cover plate	1	
6	1184200-052000	ZT310-X headlight harness	1	
7	1174200-024000	ZT310-X headlight spotlight driver	1	
8	1174200-025000	ZT310-X headlight regulater assembly	1	
9	1174200-017000	ZT310-X headlight position light	1	
10	1174200-015000	ZT310-X headlight left daytime running light	1	
11	1174200-018000	ZT310-X headlight spotlight	1	
12	1174200-016000	ZT310-X headlight right daytime running light	1	

PROCEDURE:

●Headlight assembly

Remove 2 pieces of side cover round glue and 5 pieces of splint (3) from the headlights protective shell (1).

●Headlights after sale parts

Remove 2 self tapping screws(4) from the back of the headlight protection shell(1). Remove the rear cover plate (5).

Unplug the wire harness connector(6) from other lamps and remove it.

After removing the self tapping screws(4), pull the driver(7) out and pull off the plug connected with the spotlight(11).

Remove the tapping screws(4) of the corresponding lamps and lanterns, and remove the regulator assembly(8), position lamp(9), left daylight lamp(10), spotligh(11)and right daylight lamp(12) respectively.

CAUTION：

● Do not pull the cable directly.

● The lamp cover should be protected during the disassembly process to prevent scratches.

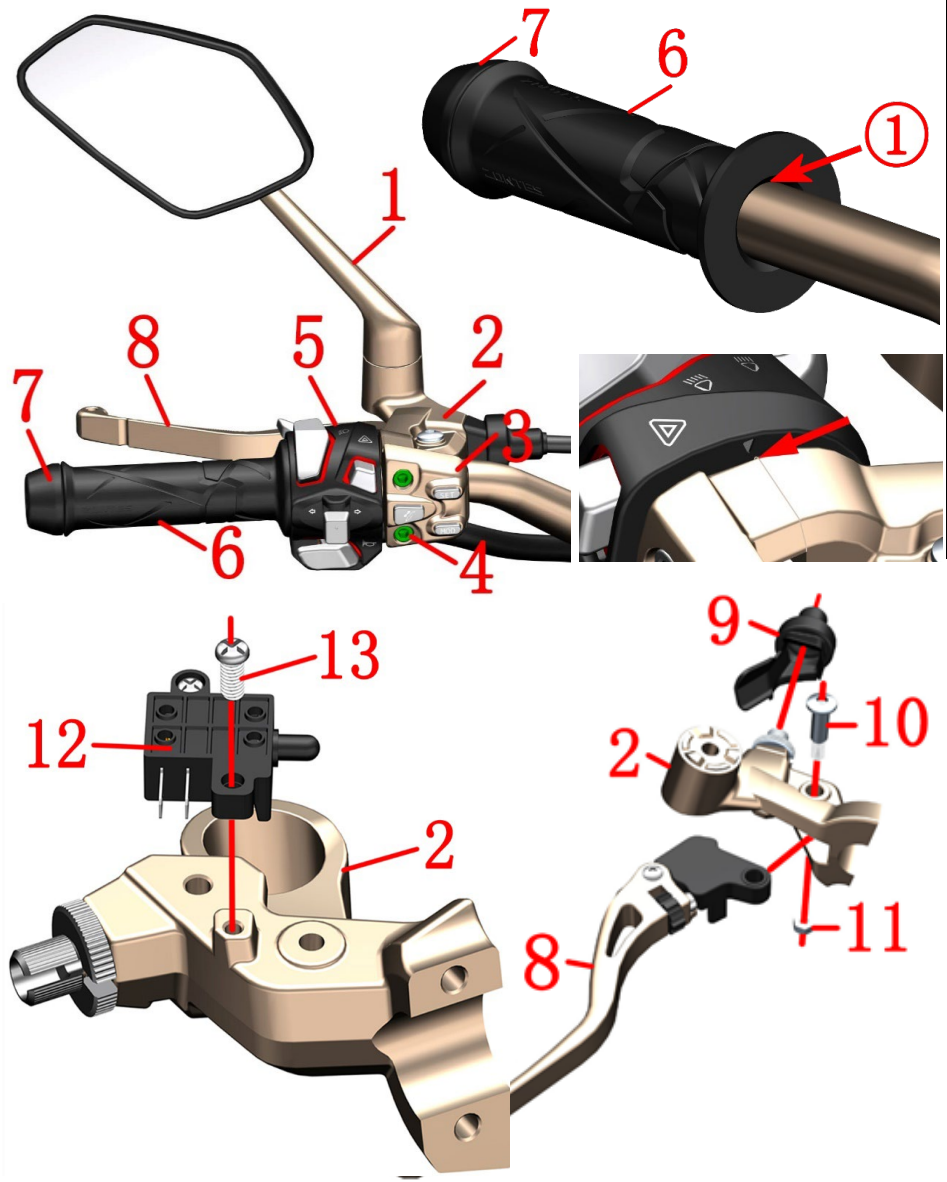


Fig. 21 FRONT FORK COMPONENT		Left hand component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1194100-001000	ZT250-S left rear view mirror	1	
2	1134200-011000	ZT310-V left hand rocker arm assembly	1	
3	1184200-085000	ZT310-X left hand switch(TFT)	1	stop selling
	1184200-144000	Second Generation Left Handlebar Switch (TFT)		new
4	1250205-031091	GB70.1 M6×30 (stainless steel)	2	
5	1184200-141000	ZT310-X1 left hand switch(TFT)	1	new
	1184200-066000	ZT310-X left hand switch (clutch line length 100)		stop selling
6	1244100-041000	ZT250-R left hand rubber sleeve	1	
7	1134200-023000	ZT250 - R balance block	1	
8	1134200-010000	ZT310-V left hand rocker arm (machine plus)	1	
9	1244200-046000	ZT310-V clutch line sheath	1	
10	1251100-198000	Non-standard hexagon socket bolt M6×13-φ8×20	1	
11	1251300-073000	GB/T6185 hexagonal nylon lock nut M6	1	
12	1184200-170000	ZT310-V Clutch switch	1	
13	1250201-039000	GB818 cross recessed pan head screw M4×12（color zinc）	1	

PROCEDURE:

● left rear view mirror, left switch, rocker arm

Remove the clutch line by referring to the “Replace Clutch Line” procedure. Remove the left rear view mirror(1), rocker base(2), left sub switch(3), bolt(4), left switch(5), and rocker arm(8) by referring to the steps in "Right Handle Assembly" and "Add Brake Fluid, Adjusting Rocker Arm".

● Left hand rubber sleeve and balance block assembly

Use a blow gun to blow the left hand grip①between the rubber sleeve(6) and the direction handle tube while moving the rubber sleeve inward until the balance block positioning hole is exposed.

Use the tool to press the convex part at both ends of the elastic piece on the balance block and pull out the balance block assembly(7).

● Replace the left hand rocker arm and clutch switch

Fix the bolt(10), then remove the nut(11) , remove the bolt(10) and then remove the left hand rocker arm(8).

First remove the clutch switch plug, then use a cross screwdriver to remove the bolt(13), remove the clutch switch (12).

Rotate the adjusting nut to adjust the distance between the rocker arm and the left handle to adjust the rubber sleeve to adapt to different driver's hand feeling.

CAUTION:

● When assembling the switch, first align the locating hole under the switch with the direction to align the Threaded Hole on the tube, then assemble the Phillips head bolt first, and then install the hexagon socket head bolt. Be sure to pay attention to the cable that cannot be pressed inside the switch; the torque should not be too large.

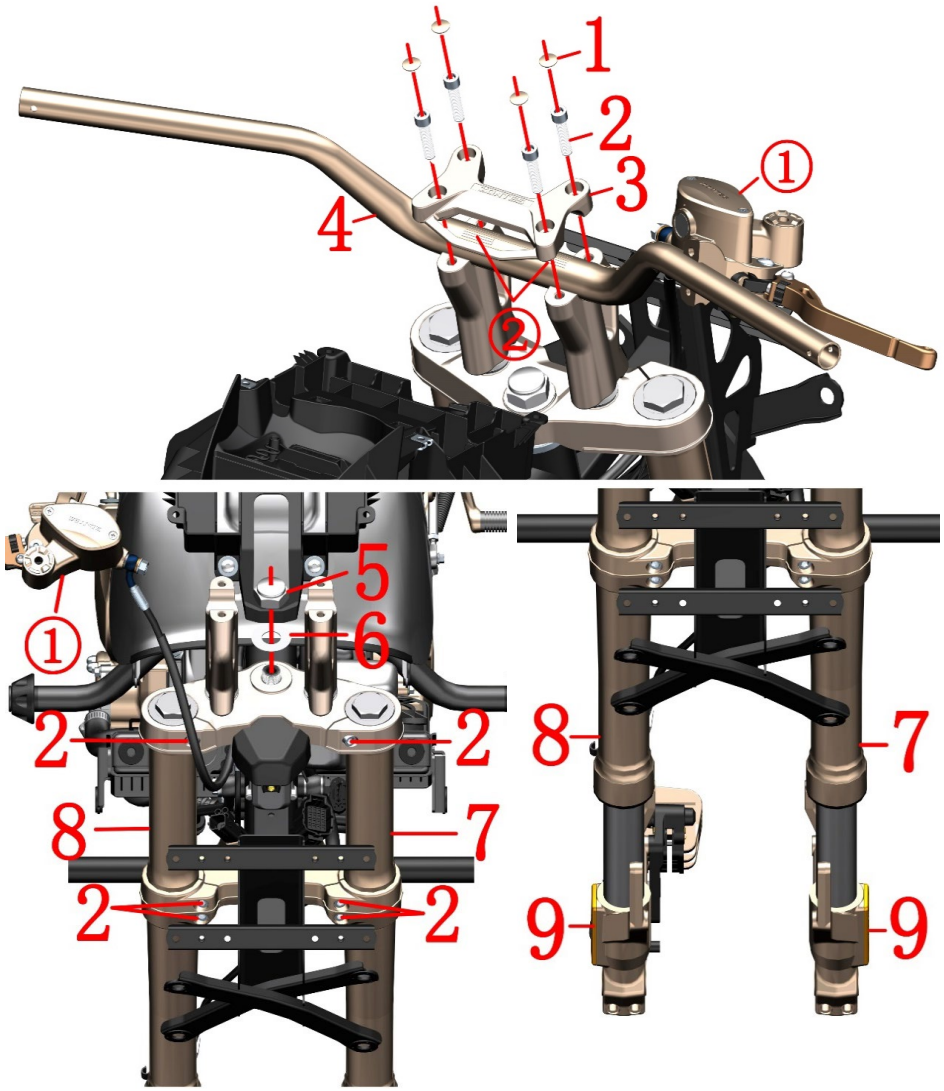


Fig.29 FRONT FORK COMPONENT		Direction handle, upper plate, front shock absorbing assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044102-001051	ZT250-SM8 bolt decorative buckle	4	
2	1250205-023000	GB70.1 M8×35 (environmental color zinc)	10	
3	1134200-005000	ZT310-R direction press block (homemade)	1	
4	1134200-003000	ZT310-R direction	1	
5	1251300-045000	ZT250-S upper plate decorative nut (chrome plated)	1	
6	1251500-050000	Upper plate gasket φ18.5×φ39×1 (chrome plated)	1	
7		Front left shock absorption	1	
8		Front right shock absorption	1	
9	1174100-001000	ZT250-S reflector	2	after-sales

PROCEDURE:

●Directional components

Use a blade to pick up the decorative buckle (1), hold the direction handle (4) in one hand, and remove the bolt (2) with a hexagonal tool in one hand; remove the clamp (3) and finally remove the direction handle (4).

●Uplink board assembly

Locate the faucet lock plug and remove it; remove the nut (5) and remove the shims (6). Remove the upper plate bolts (2).

●Front left and right shock absorption

Remove the bolts (2) on the lower link, and hold the shock absorber in the middle with one hand. Insert a slotted screwdriver into the slot of the upper and lower plates to slightly enlarge the slot clearance, and disassemble the left shock absorber (7) and the right shock absorber (8). under. Remove the upper plate assembly.

●Reflecting film

The reflector (9) is for replacement after sale (no shock reduction). The heat-reflecting sheet can be moved back and forth by a hot air blower to reduce the viscosity of the double-sided adhesive after being heated, and the residual glue should be cleaned after removing the reflector.

CAUTION：

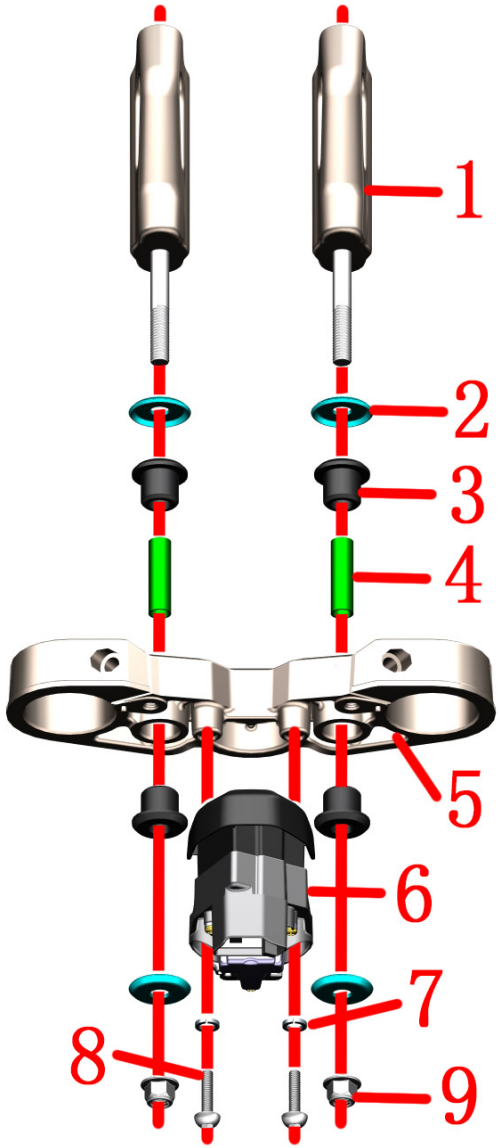
●The vehicle support should be fixed during the disassembly process to prevent accidents caused by dumping.

●The front disc brake main pump 1 should always be in the high position during the disassembly process. It is forbidden to invert or dump to prevent air from entering the brake oil circuit.

●Use a flat-blade screwdriver to enlarge the gap between the upper and lower joint plates without applying excessive force to avoid damage.

●The direction of the upper scale 2 coincides with the edge of the clamp, and the centering and alignment scale should be paid attention to during assembly.

● For the disassembly of the lower board components, see "Steering Adjustment" above, which will not be repeated here.



Old

New

Fig.23 FRONT FORK COMPONENT		Uplink plate, direction handle block assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1134200-013000	ZT310-X direction pad component	2	
2	1274200-018000	ZT310-R upper plate gasket	4	
3	1244200-008000	ZT310-R upper plate buffer rubber	4	
4	1251700-065000	ZT310-R bushing φ10×φ12×41	2	
5	1134200-004000	ZT310-R uplink board (homemade)	1	
6	1184200-138000	ZT310 faucet lock (electromagnetic/line length 450) assembly	1	New
	1184200-035000	ZT310-X electronic faucet lock (DC)		Stop selling
7	1250501-007093	GB93φ8 (environmental color)	2	
8	1251100-121093	Non-standard bolt M6×25 (environmental color)	2	
9	1251300-057093	Non-standard nut M10×1.5 (Dacro)	2	

PROCEDURE:

●faucet lock

Remove the bolt (8) and remove the spring washer(7) and the faucet lock(6).Increased 2 pieces of spring washer (7) since Oct.31,2018.

●Uplink plate and spacer assembly

In order to facilitate the direction of the block, the direction and the upper block should be assembled first to prevent the block from rotating during the disassembly process. The direction should be wrapped with cotton or other soft materials to prevent scratching the paint surface.

Remove the nut (9) and remove the gasket(2), cushion rubber (3), and bushing (4). Remove the upper plate (5). The direction pad component(1), the upper clamp and the direction handle are disassembled.

CAUTION:

●Protect protective measures to prevent scratching the appearance of parts.

●When reassembling the faucet lock, be sure to align the limit boss with the groove on the upper plate.

●When reassembling, it is necessary to use the direction to ensure that the center and direction of the spacers on both sides are coaxial with the center. First install 4 pieces of cushioning rubber into the upper plate and then install the bushing separately. Make sure that the bushing is flush with the cushioning rubber, otherwise it should be reassembled. When tightening the nut, ensure that the torque is 40N.m. Check the buffer for spillage and reassemble if necessary.

●The old faucet lock can be replaced as new model.

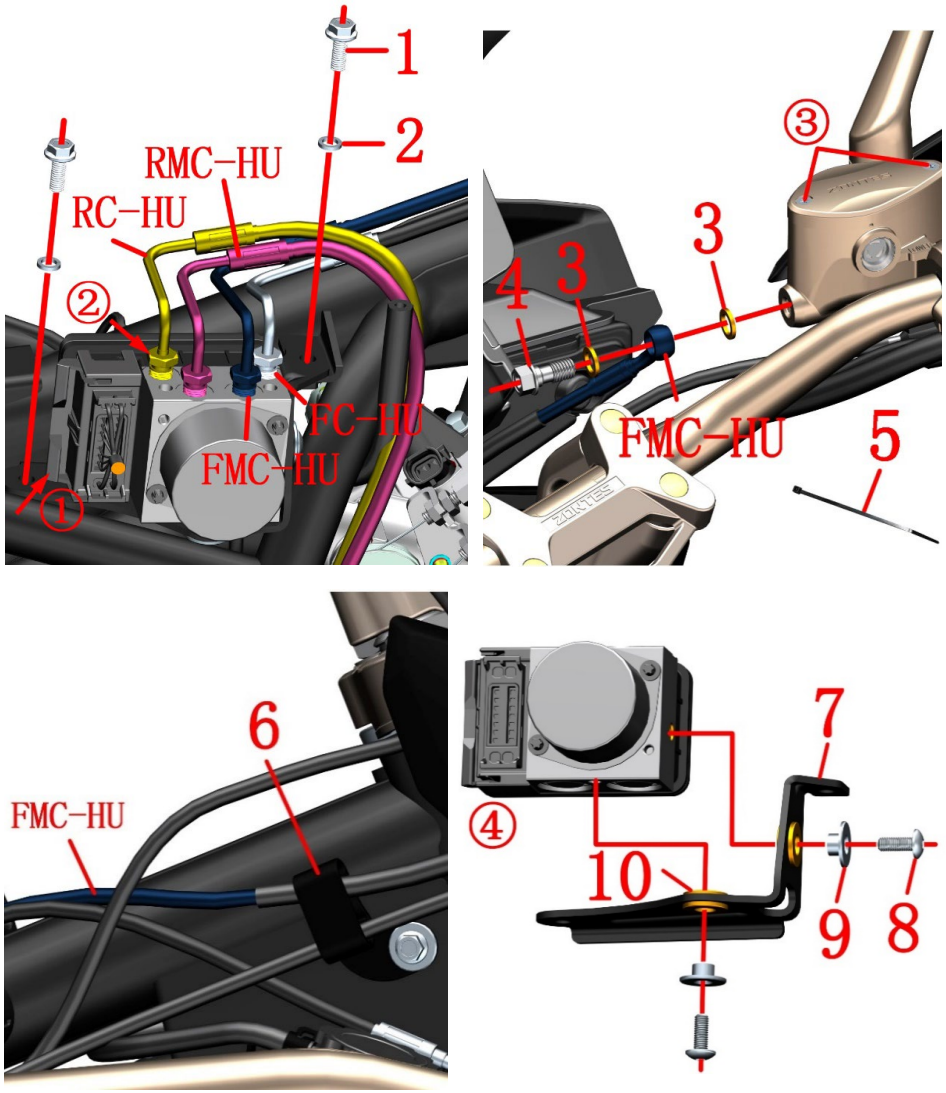


Fig. 24 FRONT FORK COMPONENT		ABS brake system-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251112-001093	M6×16 hex flange bolt (environmental color zinc)	2	
2	1250501-010000	GB93 φ6 (environmental color)	2	
3	1251513-013000	Brake brake tubing copper washer φ15×φ10.2×1.5	2	
4	1251100-112000	Disc brake tubing bolt M10×1－22	1	
5	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	1	
6	1224200-016000	ZT310－R Clamp	1	
7	4024200-006000	ZT310-R ABS mounting bracket	1	
8	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	2	
9	1251100-102000	Non－standard bolt M6×16 (304 stainless steel)	2	
10	1244100-004000	ZT250－S Flanging bushing buffer	2	

PROCEDURE:

● Release brake fluid

Remove the connector by pushing the cable connector① pusher open. Cut the cable tie (5).

Remove the bolt ③ first, and replace the oil cup top cover, cover plate and sealing gasket with reference to the front brake fluid addition step.

Remove the bolt (1) and remove the spring washer (2). Pull the ABS control unit and mounting bracket assembly out of the frame.

Wear waterproof gloves after placing the oil pan. Use the open-end wrench to loosen the nut joints of the 4 oil pipes. After the brake fluid is discharged, remove the hydraulic control unit and wipe off the oil. Be careful not to let the brake fluid come into contact with the cable connector to prevent poor contact due to corrosion.

RC-HU is connected to the hydraulic control unit and rear brake caliper; RMC-HU is the rear disc brake main pump; FC-HU is the front disc brake caliper; FMC-HU is the front disc brake main pump.

●FMC-HU

For the disassembly of the front disc brake main pump and handle, see the previous steps.

After wearing the waterproof gloves, remove the bolts (4) with a 12# sleeve; remove the copper washers (3). Remove the FMC-HU tubing after removing the clamp (6). It is recommended to replace the two copper washers (3) at the same time when replacing the tubing. The bolts (4) needn't to be replaced if they are not damaged.

Wipe the end faces of the bolt (4) and the front disc brake main pump before replacing the FMC-HU tubing. After installing the tubing, add DOT4 brake fluid and vent the brake system. Detailed steps can be found in Adding Brake Fluid.

●ABS mounting bracket

Remove the bolt (8) and remove the bushing (9). Separate the mounting bracket assembly from the ABS control unit ④. The cushion rubber (10) is separated from the mounting bracket (7).

CAUTION:

●Be sure to disassemble the muffler and engine after they have cooled down completely. The horizontal support of the vehicle should be fixed before disassembly and assembly work.

●The precautions for brake fluid are described in the previous section.

●The torque of the nut ② is 18 N.m.

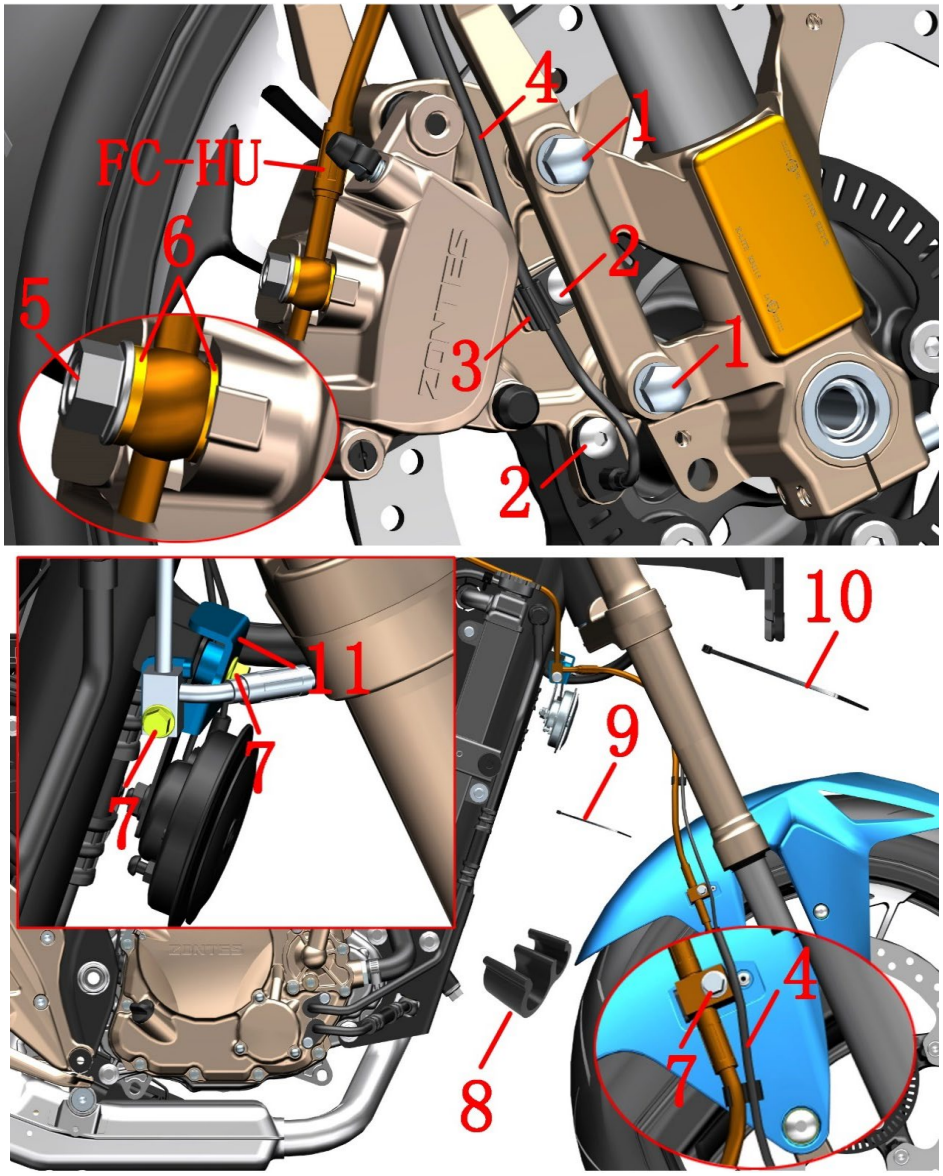


Fig. 25 FRONT FORK COMPONENT		ABS brake system-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-080094	Non-standard bolt M8×37 (environmental color zinc)	2	
2	1251100-101000	Non－standard bolt M6×12 (304 stainless steel)	2	
3	1224200-127000	ZT310-T front wheel WSS wire clip	1	
4	1184200-045000	DF30 system wheel speed sensor	1	
5	1251100-112000	Disc brake oil pipe bolt M10×1-22	1	
6	1251513-013000	Disc brake copper washer φ15×φ10.2×1.5	2	
7	1251100-061093	M6×22 Hex flange face full thread bolt	3	
8	1224100-044000	Wheel speed sensor clamp	3	
9	1224100-051000	0 Flame retardant tie (black 2.5×100)	1	
10	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	1	
11	1274200-033000	ZT310－R No.2 holder of front disc oil pipe	1	

PROCEDURE:

●Brake brake fluid

lace the oil pan under the front disc brake caliper.

After wearing the waterproof gloves, remove the bolts (5) with a 12# sleeve; remove the copper washers (6).

Remove the two bolts (1) and remove the front disc brake caliper from the front shock absorber.

First remove the wheel speed sensor (4) from the clamp (3), then remove the two bolts (2) and remove the wheel speed sensor (4) and the clamp (3) from the front disc brake caliper. Organize the wheel speed sensor line neatly.

Remove the two bolts (7) on the right side.

Cut the cable ties (9) and (10); remove the 3 clips (8). Then remove the FC-HU tubing. If you need to replace the FC-HU tubing, it is recommended to replace the two copper washers (6) at the same time; There is no need to replace the bolts (5) if they are not damaged.

●Front disc brake tubing bracket

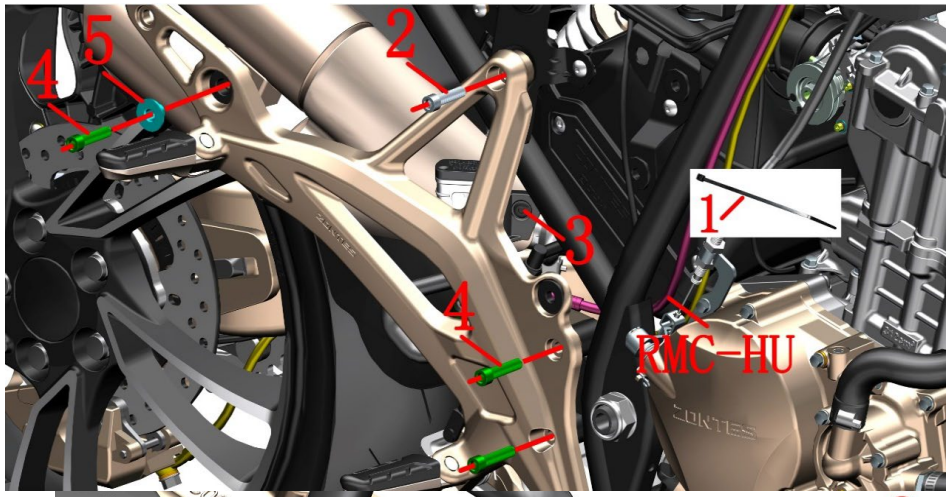
If you only need to replace the oil pipe, you do not need to remove the oil pipe bracket (11). If you need to remove the bolt(7) on the position of a, remove it and can remove the bracket.

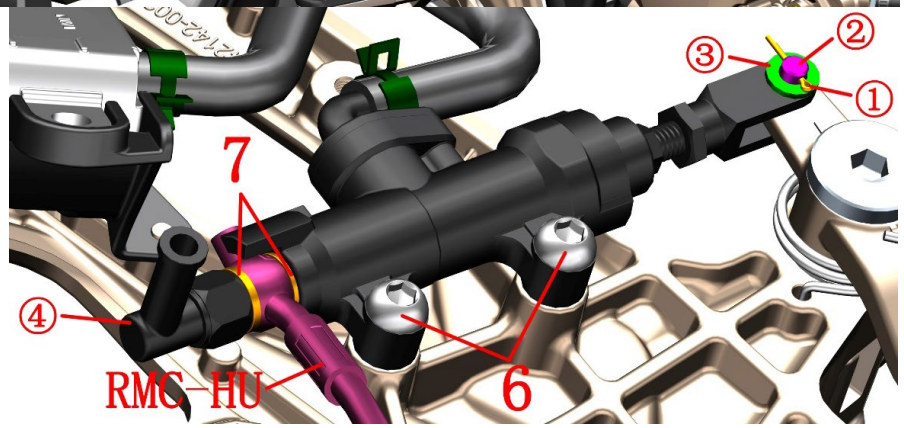
CAUTION:

●Be sure to disassemble the muffler and engine after they have cooled down completely. The horizontal support of the vehicle should be fixed before disassembly and assembly work.

●The precautions for brake fluid are described in the previous section.

● It is recommended to replace the two copper washers (6) at the same time when replacing the oil pipe. There is no need to replace the bolts (5) if they are not damaged.





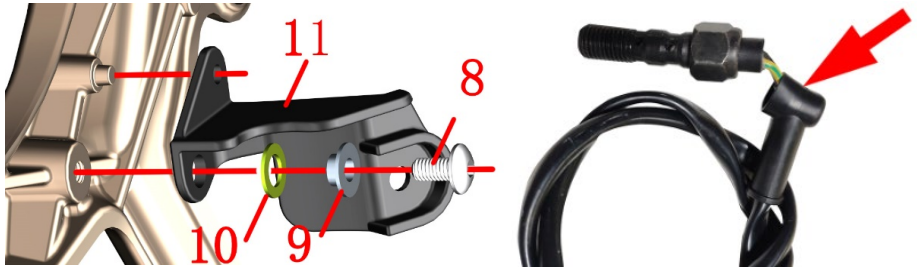


Fig. 26 FRONT FORK COMPONENT		ABS brake system-3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	1	
2	1250205-034093	GB70.1 Hexagonal M8×30 (environmental color zinc)	1	
3	1224100-010000	ZT250-S expansion nail	1	
4	1250205-023000	GB70.1 Hexagonal M8×35 (environmental color zinc)	3	
5	1274100-068095	ZT310 Muffler bush	2	
6	1251100-121093	Non-standard bolt M6×25 (environmental color)	2	
7	1251513-013000	Brake brake tubing copper washer φ15×φ10.2×1.5	2	
8	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	1	
9	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	1	
10	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	1	
11	1224200-055000	ZT310-R rear disc brake oil cup holder	1	

PROCEDURE:

●Rear disc brake main pump

Use a small Phillips screwdriver to press down the center of the expansion nail(3) and remove the expansion nail.

Cut the cable tie (1) and find and remove the brake switch cable plug.

Remove the bolts (2) and bolts (4) and remove the gasket (5). Remove the right footrest bracket assembly and the RMC-HU tubing from the frame.

After wearing the waterproof gloves, remove the brake fluid by referring to the procedure of adding the brake fluid of the rear brake master pump. Use the open end wrench to loosen the brake switch nut 4. Remove the copper pad (7) and the RMC-HU oil tubing.

The cotter pin ① is straightened and then removed, and the pin ② and the spacer ③ are removed.

Remove the bolt (6) with the inner hexagon socket tool and remove the rear disc brake main pump assembly.

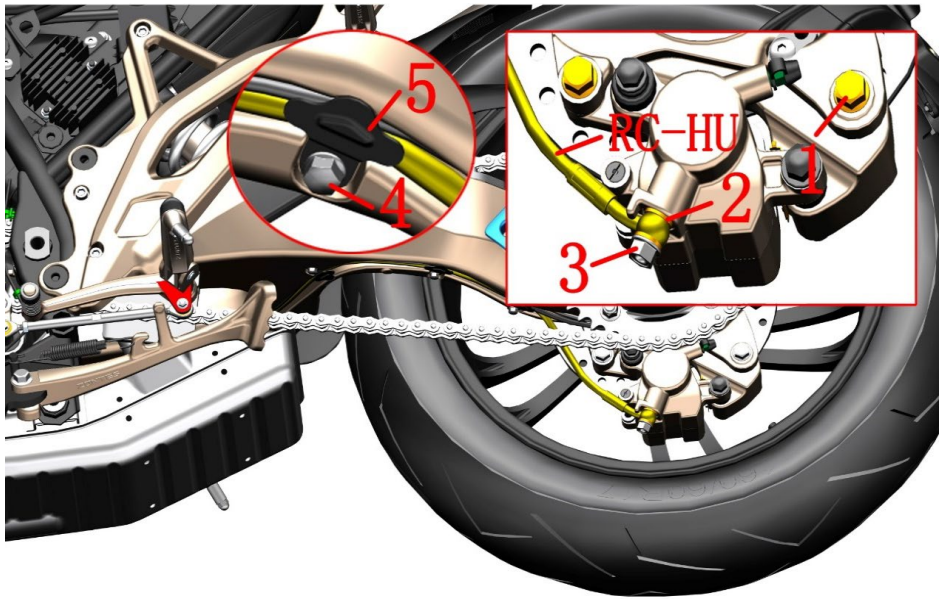
Remove the bolt (8), remove the bushing (9), rubber pad (10), and remove the oil cup bracket (11) from the right footrest bracket.

CAUTION:

●The precautions for brake fluid are described in the previous section.

● It is recommended to replace two copper washers (4) at the same time when replacing the oil pipe, rear brake switch wire or disc brake main pump.

● The rear brake switch line is prohibited from rotating the rubber cap at the arrow indication. Replace this switch wire. Be careful not to wrap the cable around the tool.



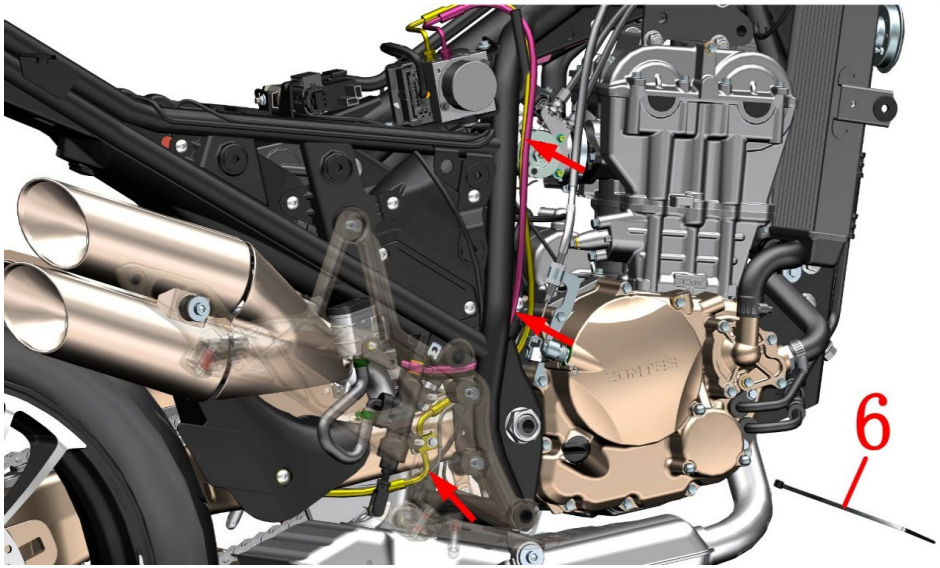


Fig. 27 FRONT FORK COMPONENT		ABS brake system-4	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-123093	non-standard bolt M8×25 (color zinc)	2	
2	1251513-013000	Brake brake tubing copper washer φ15×φ10.2×1.5	2	
3	1251100-112000	Disc brake tubing bolt M10×1-22	1	
4	1250104-006097	GB16674M6×12 (chromed/HH)	4	
5	1274200-119000	Single rocker rear flat fork tubing bracket	4	
6	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	3	

PROCEDURE:

●RC-HU tubing

Place the oil pan under the rear disc brake caliper

In the previous step of the parameter, the brake fluid step is used to loosen the nut connected to the RC-HU tubing and the pilot unit.

After wearing the waterproof gloves, remove the bolts (3) with a 12# sleeve; remove the copper washers (2). If you need to replace the RC-HU tubing, it is recommended to replace the two copper washers (2) at the same time; the bolts (3)can be replaced if they are not damaged.

Remove the 4 bolts(4) and remove the 4 pieces of tubing bracket(5).

Remove the RC-HU brake tubing after cutting the 3 straps(6) on the right side.

●Rear disc brake caliper

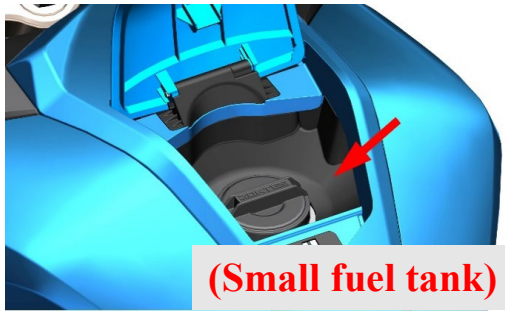
Remove the 2 bolts(1) to remove the rear disc brake caliper。

CAUTION:

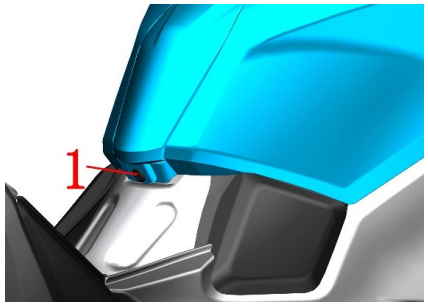
●Be sure to disassemble the muffler and engine after they have cooled down completely. The horizontal support of the vehicle should be fixed before disassembly and assembly work.

●The precautions for brake fluid are described in the previous section.

Fig.1 FUEL TANK COVER COMPONENT		Tank housing assembly 1（Small fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224100-010000	ZT250－S swell nail	2	
2	1251100-102000	Non-standard bolt M6×16（304stainless）	2	
3	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	2	



A



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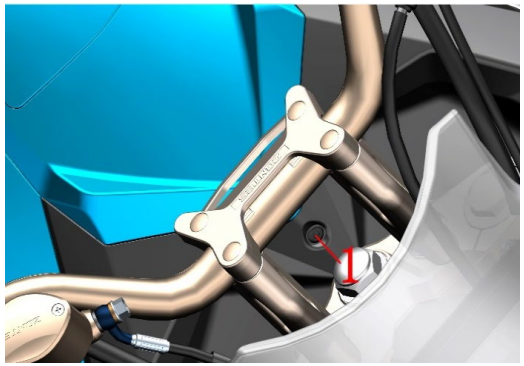

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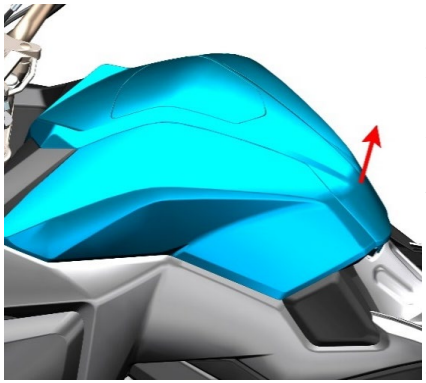
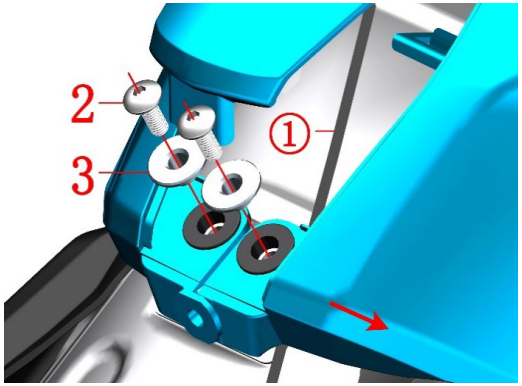
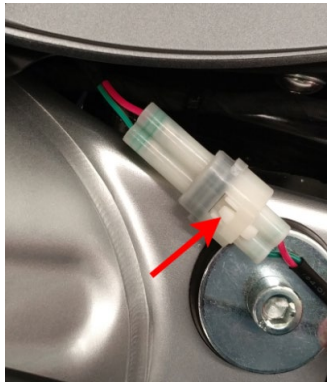


D



E



F

PROCEDURE：

●Middle cover components

Some of the X1 models produced in the early stage were in a small fuel tank state (Fig. A). The fuel tank cap was far from the upper surface of the tank cover and the tank box was visible. Here, explain the disassembly of the fuel tank cover in the state of the small fuel tank.

Press the center of the expansion nail down with a small cross screwdriver（ As photoB、C show），Remove the expansion nail (1) of the rear and front parts of the hood assembly。

Drag up the back of the middle cover assembly（As photoD show），Pull out all the middle cover component buckle。

Lift the cover assembly with one hand，Remove the bolt with other hand(2)，Remove the liner(3)（As E show）。

Pull the right fuel tank trim out，take out the fuel tank lock cable ① from right fuel tank cover and the gap of fuel tank inner tank.

Find the lock cable plug of the fuel tank at the back of the right cover and the tank inner tank (figure F) and unplug it, then remove the middle cover assembly.

CAUTION：

●The material parts should be protected during disassembly to prevent damage to the paint surface.

●When removing the buckle, attention should be paid to the strength and direction to prevent damage to the buckle. .

●When assembling, please pay attention to check whether the cable is directly pressed or interfered by other parts to prevent short circuit caused by abrasion.

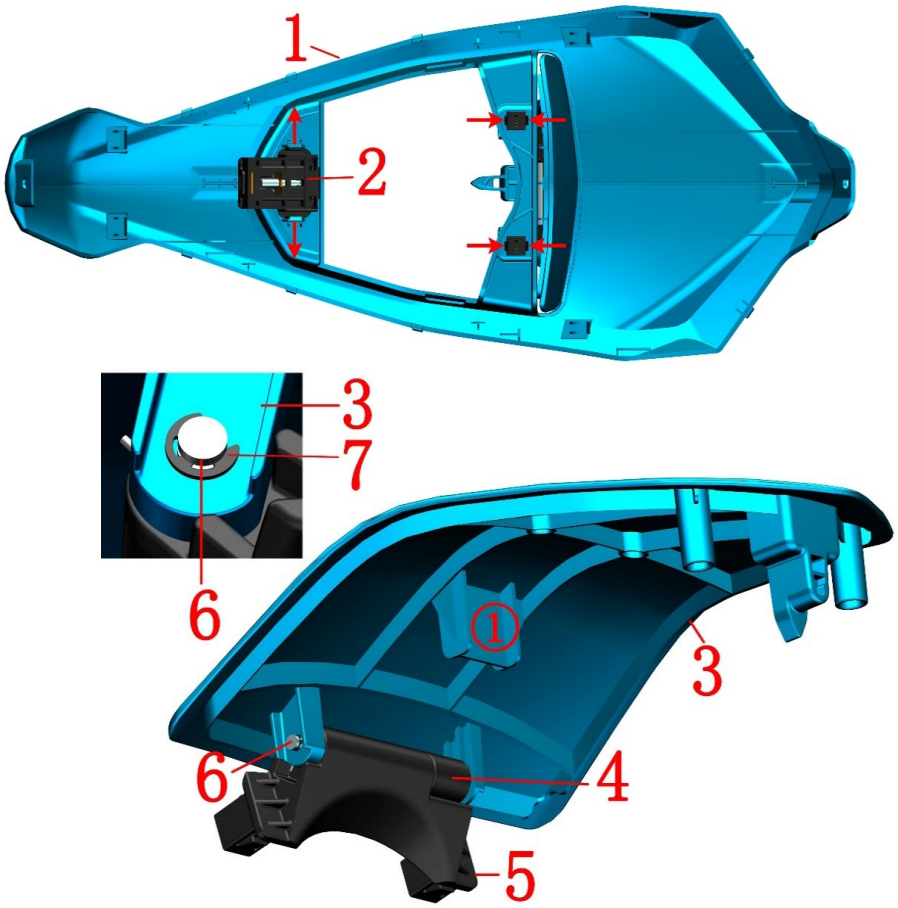


Fig.2 FUEL TANK COVER COMPONENT		Tank cover, tank cover, tank lock（Small fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	4044201-006064	ZT310－X Bright fuel tank middle cover	1	Regular version
	4044201-054001	ZT310－X Pearl white fuel tank middle cover		
	4044201-044021	ZT310－X black fuel tank middle cover		
	4044201-044151	ZT310－X bright gray fuel tank middle cover		
	4044201-100015	ZT310－X red fuel tank middle cover		
	4044201-211002	ZT310-X2 pearl white tank cover (red GP version)		GP version
	4044201-210021	ZT310-X2 special black tail skirt right decorative cover (gem red GP version)		
	4044201-212052	ZT310-X2 deep bright gray tank cover (bright blue GP version)		
2	1184200-002000	ZT310 electric fuel tank lock	1	
3	4044201-003064	ZT310－X Bright fuel tank outer cover	1	Regular version
	4044201-051001	ZT310－X Pearl white fuel tank outer cover		
	4044201-041021	ZT310－X black fuel tank outer cover		
	4044201-041051	ZT310－X bright gray fuel tank outer cover		
	4044201-097015	ZT310－X red fuel tank outer cover		
	4044201-214002	ZT310-X2 pearl white fuel tank cover (red GP version)		GP version
	4044201-213021	ZT310-X2 special black fuel tank cover (gem red GP version)		
	4044201-215052	ZT310-X2 Deep Bright Gray Fuel Tank Cover (Bright Blue GP Version)		
4	1224100-014000	ZT250－S Tank cover rotary damping	1	
5	1274100-021000	ZT250－S Tank cover swivel support	1	
6	1274100-090000	ZT250-S Swivel shaft for tank cover	1	
7	1260100-215000	ZT310－T circlip	1	【1】

PROCEDURE:

●Fuel tank lock

Use a flat-blade screwdriver to carefully pry the ends of the middle cover and remove the fuel tank lock (2), taking care to prevent damage to the buckle.

●Fuel tank cover assembly

Use a needle-nose pliers to clamp the tab of the swivel bracket(5) with a slight force. Remove the cover assembly and take care to prevent damage to the buckle.

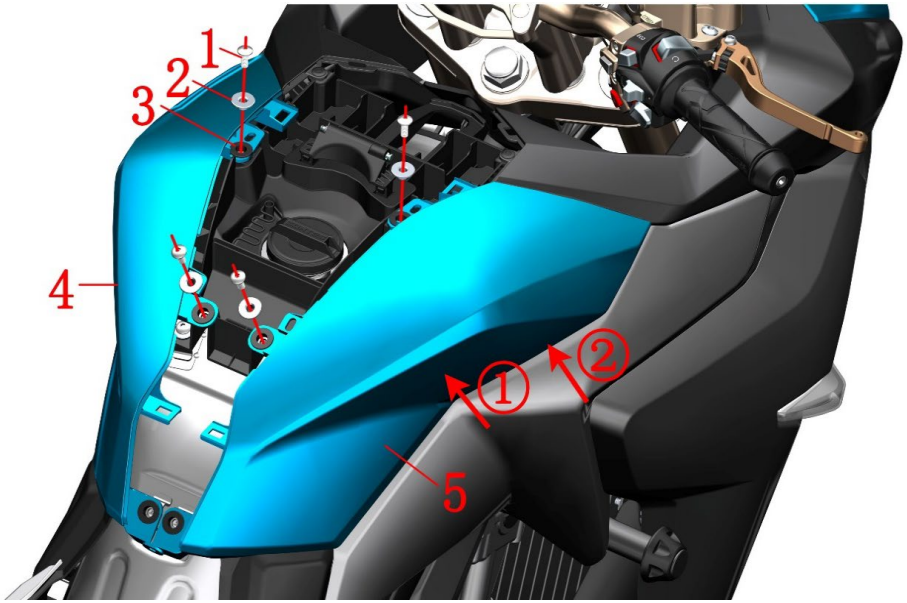
Remove the circlip(7) on the rotating shaft(6) ; the fuel tank cover rotating bracket(5) included circlip(7). Remove the rotating shaft and separate the rotating bracket(5) and the damper(4).

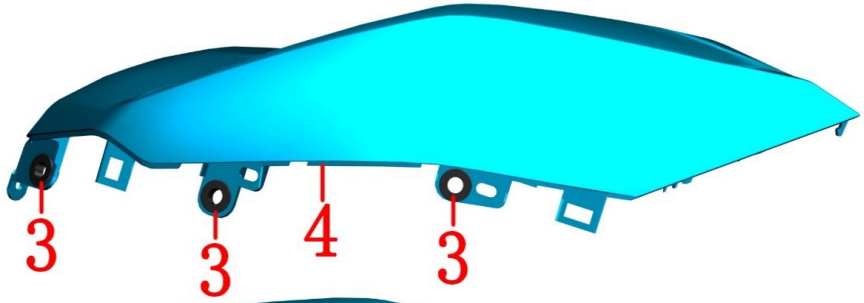
CAUTION:

●Be careful not to lose your own spring when removing the swivel bracket.

●When assembling, pay attention to whether the length of the process clip① on the outer cover is too long. If it is too long, be sure to cut it short.

●【1】The fuel tank cover rotating bracket(5) included circlip(7).Just for after-sales.





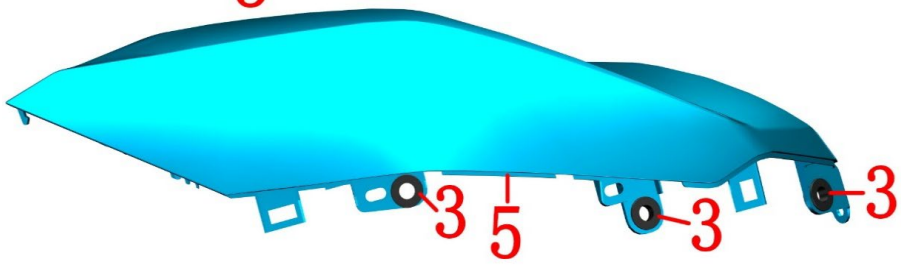


Fig.3 FUEL TANK COVER COMPONENT		Fuel tank trim kit（Small fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1251100-102000	Non-standard M6×16（304 stainless）	4	
2	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	4	
3	1244100-004000	ZT250－S Flanging bushing buffer	6	
4	4044201-004064	ZT310－X Bright blue tank left cover	1	Regular version
	4044201-052001	ZT310－X Pearl white tank left cover		
	4044201-042021	ZT310－X Black tank left cover		
	4044201-042151	ZT310－X Deep bright grey tank left cover		
	4044201-098015	ZT310－X Jewel red tank left cover		
	4044201-206002	X2 pearl white fuel tank left cover (red GP version)		GP version
	4044201-204021	X2 special black fuel tank left cover (gem red GP)		
	4044201-208052	X2 deep bright gray fuel tank left cover (bright blue GP)		
5	4044201-005064	ZT310－X Bright blue tank right cover	1	Regular version
	4044201-053001	ZT310－X Pearl white tank right cover		
	4044201-043021	ZT310－X Black tank right cover		
	4044201-043051	ZT310－X Deep bright grey fuel tank right cover		
	4044201-099015	ZT310－X Jewel red tank right cover		
	4044201-207002	X2 pearl white fuel tank right cover (red GP version)		GP version
	4044201-205021	special black fuel tank right cover (gem red GP)		
	4044201-209052	deep bright gray fuel tank right cover (bright blue GP)		

PROCEDURE：

●Left tank cover

Remove the bolts separately(1)； Remove the liner(2)。

Pull out the left cover assembly of the fuel tank by pulling out - in order①-②

Remove the buffler(3) from tank left cover

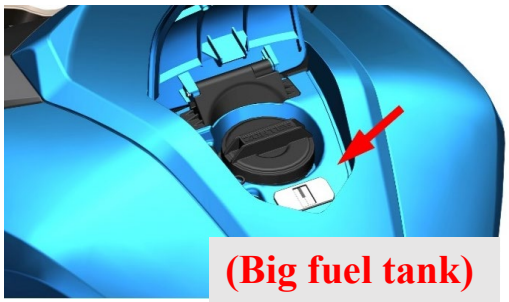
●Right fuel tank trim cover

Follow the steps of removing the left cover of the fuel tank to remove the right cover of the fuel tank(5)。

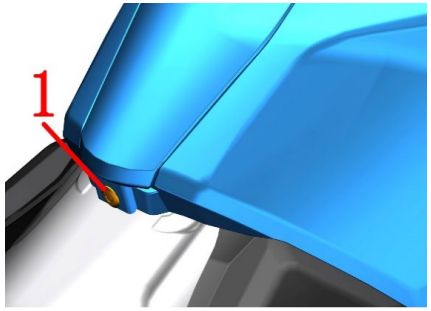
CAUTION：

●The material parts should be protected during disassembly to prevent damage to the paint surface. The tank cover is long and should be operated or held by both hands during disassembly or assembly.

●The material parts should be protected during disassembly to prevent damage to the paint surface. We should pack the pins in the order of density - weight. Note the left cover of the fuel tank and the end of the right cover. It is recommended to install the right cover before installing the left cover.



A



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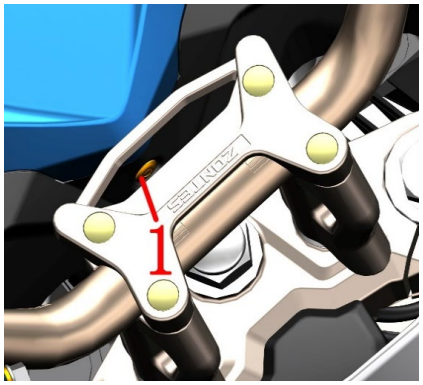

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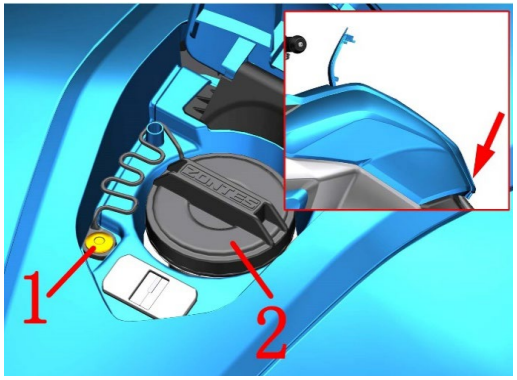

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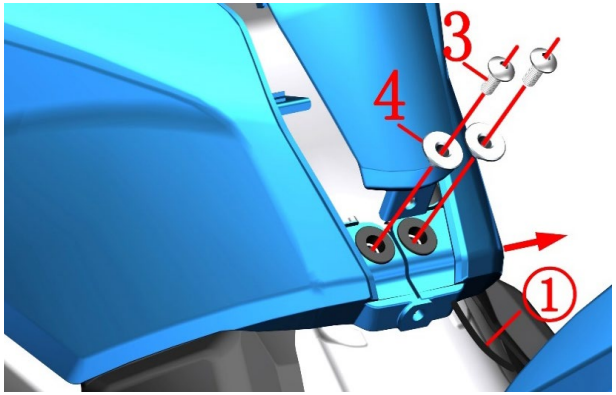

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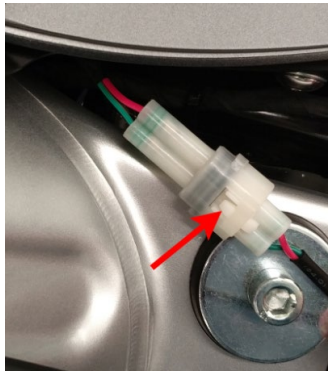


F

Fig.4 FUEL TANK COVER COMPONENT		Tank housing assembly 1（Big fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224100-010000	ZT250－S swell nail	3	
2	1224100-033000	ZT250－S thread cap of the fuel tank	1	
3	1251100-102000	Non-standard bolt M6×16（304stainless）	2	
4	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	2	

PROCEDURE：

●Middle cover components

Here we begin to explain the disassembly of the fuel tank cover in the large tank state (Figure A).

Press the center of the swell nail down with a small cross screwdriver（ As photoB、C show），Remove the swell nail(1) of the rear and front parts of the hood assembly。

Remove the expansion screw (1) after opening the fuel tank cover (shown in Figure D); first remove the fuel tank cover (2). Then pull the middle cover assembly from the rear to the front and pull out the buckle. At this time, the fuel tank lock switch cable has not been removed, so the middle cover cannot be removed.

Lift the middle cover assembly in one hand, remove the bolt (3) with one hand, and remove the bushing(4) (shown in Figure E).

Pull the right fuel tank trim out，take out the fuel tank lock cable ① from right fuel tank cover and the gap of fuel tank inner tank.

Find the lock cable plug of the fuel tank at the back of the right cover and the tank inner tank (figure F) and unplug it, then remove the middle cover assembly.

Replace the fuel tank cap (2) to prevent the fuel from evaporating. .

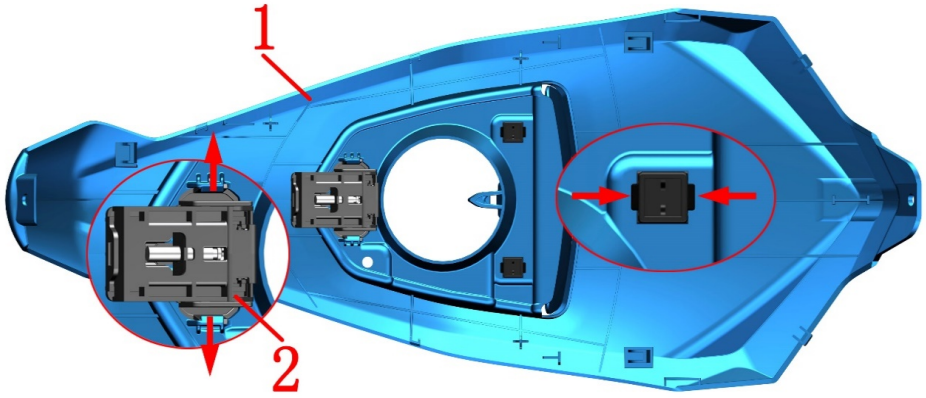
CAUTION：

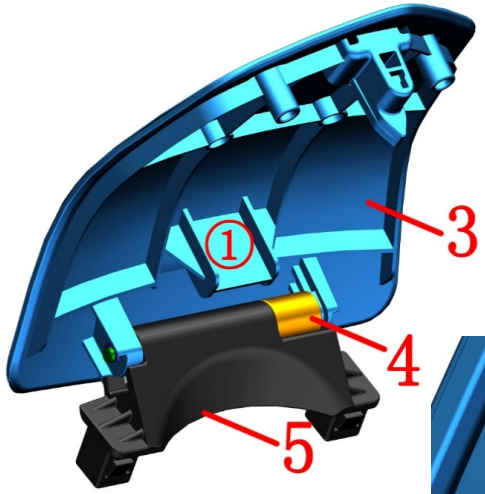
●The material parts should be protected during disassembly to prevent damage to the paint surface.

●When removing the buckle, attention should be paid to the strength and direction to prevent damage to the buckle.

●When assembling, please pay attention to check whether the cable is directly pressed or interfered by other parts to prevent short circuit caused by abrasion.

●Fireworks, answering or dialing should be strictly prohibited near the car-breaking site to prevent accidents..





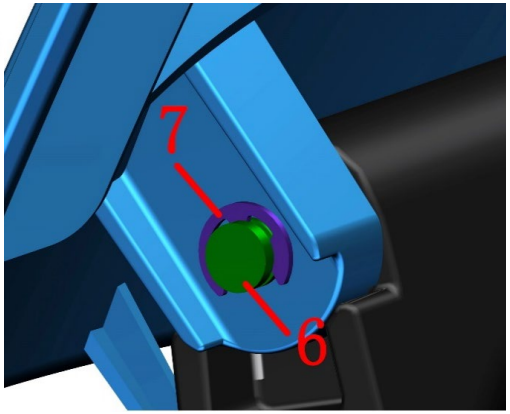


Fig.5 FUEL TANK COVER COMPONENT		Tank cover, tank cover, tank lock（Big fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	4044201-260064	ZT310-X1 bright blue fuel tank cover	1	Regular version
	4044201-260002	ZT310-X1 pearl white fuel tank cover		
	4044201-260021	ZT310-X1 special black fuel tank cover		
	4044201-260051	ZT310-X1 deep bright gray fuel tank cover		
	4044201-260015	ZT310-X1 ruby red fuel tank cover		
	4044201-318002	ZT310-X1 pearl white fuel tank cover (red GP)		GP version
	4044201-314021	ZT310-X1 special black fuel tank cover (gem red GP)		
	4044201-322052	X1 deep bright gray fuel tank cover (bright blue GP)		
2	1184200-002000	ZT310 electric fuel tank lock	1	
3	4044201-261064	ZT310-X1 bright blue fuel tank cover	1	Regular version
	4044201-261002	ZT310-X1 pearl white fuel tank cover		
	4044201-261021	ZT310-X1 special black fuel tank cover		
	4044201-261051	ZT310-X1 dark gray fuel tank cover		
	4044201-261015	ZT310-X1 ruby red fuel tank cover		
	4044201-315002	ZT310-X1 pearl white fuel tank cover (red GP)		GP version
	4044201-311021	ZT310-X1 special black fuel tank cover (gem red GP)		
	4044201-319052	Deep Bright Gray Fuel Tank Cover (Bright Blue GP)		
4	1224100-014000	ZT250－S Tank cover rotary damping	1	
5	1274100-021000	ZT250－S Tank cover swivel support	1	
6	1274100-090000	ZT250-S Swivel shaft for tank cover	1	
7	1260100-215000	ZT310－T circlip	1	【1】

PROCEDURE:

●Fuel tank lock

Use a flat-blade screwdriver to carefully pry the ends of the middle cover and remove the fuel tank lock(2), taking care to prevent damage to the buckle.

●Fuel tank cover assembly

Use a needle-nose pliers to clamp the tab of the swivel bracket(5) with a slight force. Remove the cover assembly and take care to prevent damage to the buckle.

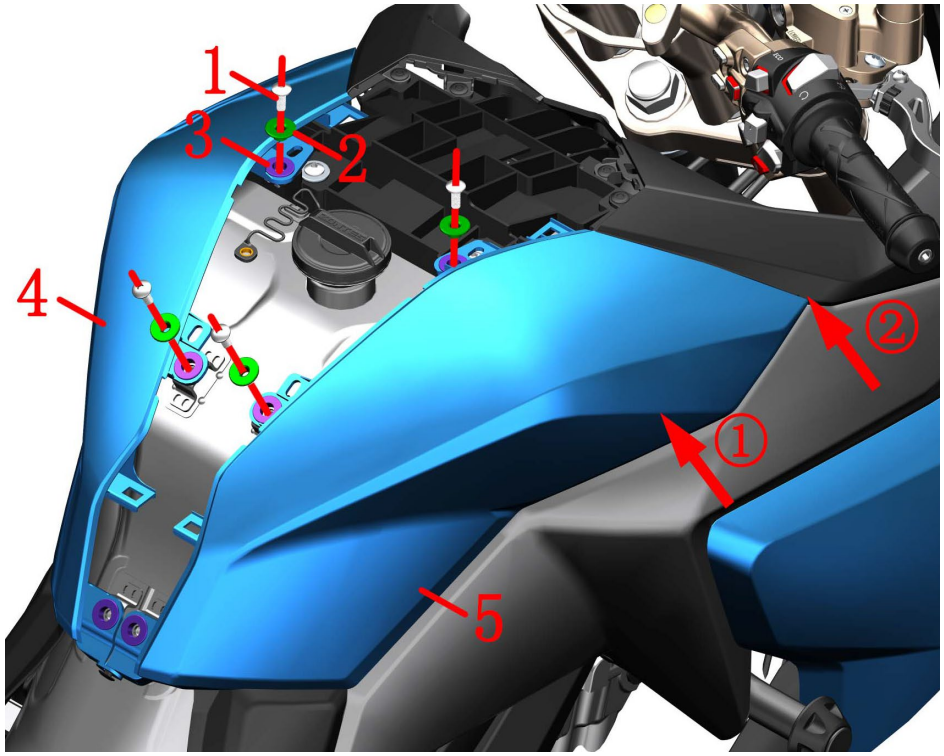
Remove the circlip(7) on the rotating shaft(6) ; the fuel tank cover rotating bracket(5) included circlip(7). Remove the rotating shaft and separate the rotating bracket(5) and the damper(4).

CAUTION:

●Be careful not to lose your own spring when removing the swivel bracket.

●When assembling, pay attention to whether the length of the process clip① on the outer cover is too long. If it is too long, be sure to cut it short.

●【1】The fuel tank cover rotating bracket(5) included circlip(7).Just for after-sales.



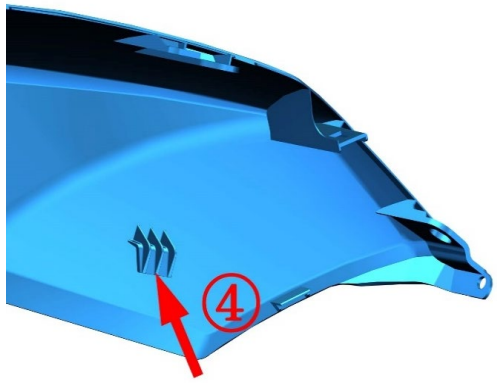


Fig.6 FUEL TANK COVER COMPONENT		Fuel tank trim kit（Big fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1251100-102000	Non-standard M6×16（304 stainless）	4	
2	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	4	
3	1244100-004000	ZT250－S Flanging bushing buffer	6	
4	4044201-233064	ZT310-X1 bright blue fuel tank left cover	1	Regular version
	4044201-233002	ZT310-X1 pearl white fuel tank left cover		
	4044201-233021	ZT310-X1 special black fuel tank left cover		
	4044201-233051	ZT310-X1 deep bright gray fuel tank left cover		
	4044201-233015	ZT310-X1 ruby red fuel tank left cover		
	4044201-316002	ZT310-X1 pearl white tank left cover (red GP)		GP version
	4044201-312021	X1 special black fuel tank left cover (gem red GP)		
	4044201-320052	X1 dark light gray tank left cover (bright blue GP)		
5	4044201-259064	ZT310-X1 bright blue tank right cover	1	Regular version
	4044201-259002	ZT310-X1 pearl white tank right cover		
	4044201-259021	ZT310-X1 special black fuel tank right cover		
	4044201-259051	ZT310-X1 deep bright gray fuel tank right cover		
	4044201-259015	ZT310-X1 ruby red fuel tank right cover		
	4044201-317002	X1 pearl white fuel tank right cover (red GP version)		GP version
	4044201-313021	X1 special black fuel tank right cover (gem red GP)		
	4044201-321052	X1 dark light gray tank right cover (bright blue GP)		

PROCEDURE：

●Right fuel tank trim cover

Remove the bolts separately(1)； Remove the liner(2).

Remove from the rear and pull out the tank right cover assembly.

Remove the buffler(3) from tank Rrght cover.

●Left tank cover

Follow the steps of removing the right cover of the fuel tank to remove the left cover of the fuel tank(4).

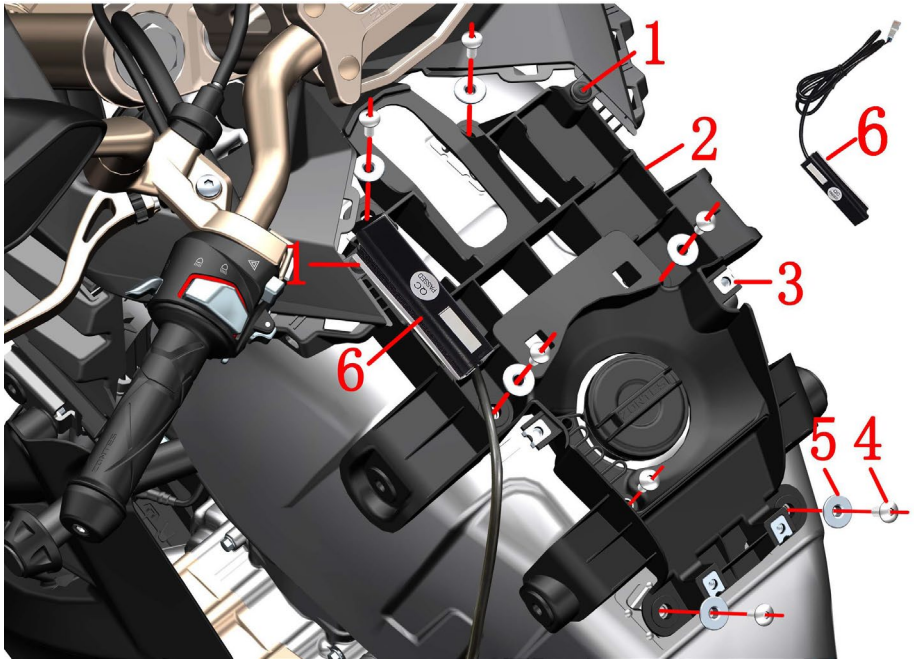
●Restitution

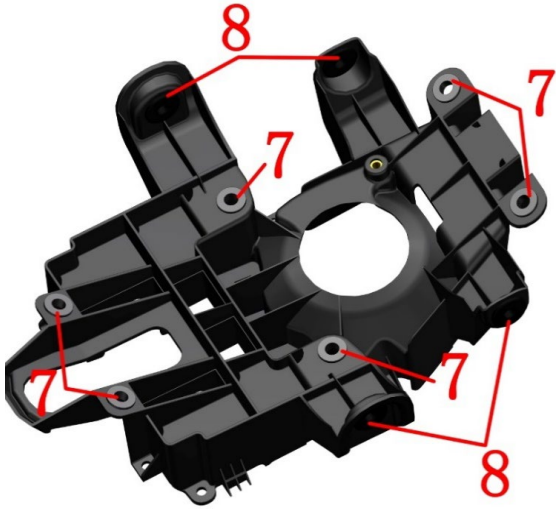
When reassembling, pay attention to the installation from the tip of the head (2), first insert the buckle of the head into the rear of the interior, and then insert the staple (1) into the mounting point (2) on the tank box. Note that the rear cover buckle (4) of the fuel tank cover is to be inserted into the limit glue (3).

CAUTION：

●The material parts should be protected during disassembly to prevent damage to the paint surface. The tank cover is long and should be operated or held by both hands during disassembly or assembly.

●We should pack the pins in the order of density - weight. Note the left cover of the fuel tank and the end of the right cover. It is recommended to install the right cover before installing the left cover.





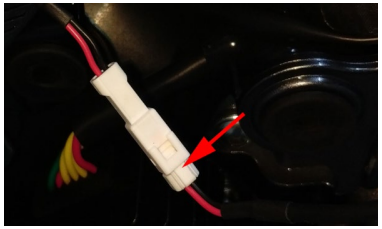


Fig.1 TANK LINER COMPONENT		Tank box assembly（Small fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224100-010000	ZT250－S swell nail	4	
2	1224200-027000	ZT310－XTank box	1	
3	1251300-063093	splint M6×11×15(environmental color)	4	
4	1251100-102000	Non-standard bolt M6×16（304stainless）	7	
5	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	6	
6	1184200-053000	ZT310PKE external single antenna	1	
7	1244100-004000	ZT250－S Flanging bushing buffer	6	
8	1244100-002000	ZT250－S Side cover round rubber	4	

PROCEDURE:

●PKE external antenna

Separate the PKE filament terminal(6) from the tank box. If the PKE antenna needs to be replaced, the joint should be found on the left side of the car body, and the nut should be spun out and removed.If the PKE is a new states of the single antenna will find the connector,hte liit plate down and unplug. Use a hot air gun to heat up a bit, remove the double-sided glue from the tank box, and clean the residual glue.

●Tank box assembly

Press down the center of the swell nail(1) with a small cross screwdriver,Remove the swell nail(1).

Remove 7 bolts(4) separately，Take down 6 pieces of bushings(5).

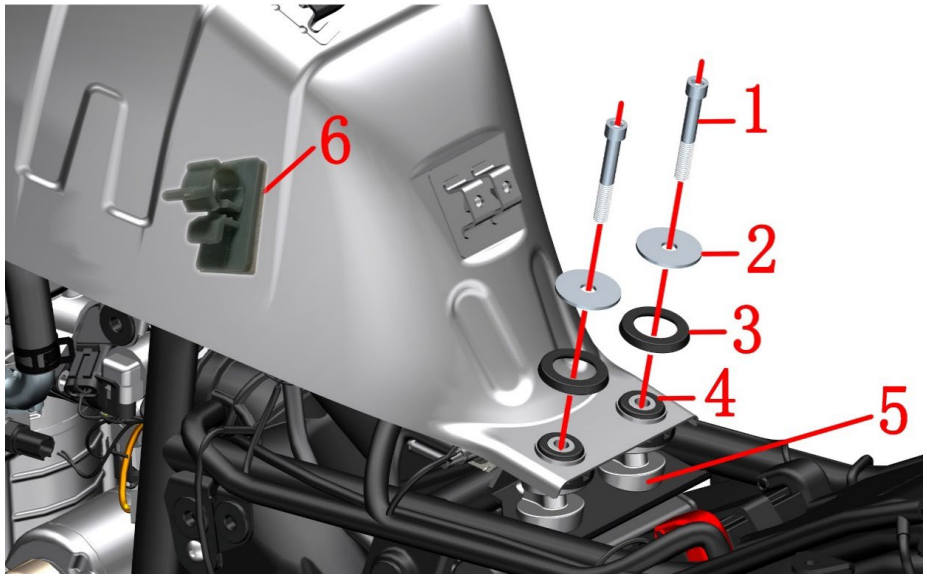
Remove the tank box assembly. Be careful not to pull the nylon rope from the tank cover.

Remove four clamps(3) from the tank box、4 pieces side cover round rubber(8) and 6 pieces Buffer rubber(7).

CAUTION：

●The cushion, side cover, enclosure panel and tank cover should be removed in advance.

●The PKE external antenna is Velcro + double-sided tape glued to the tank box.



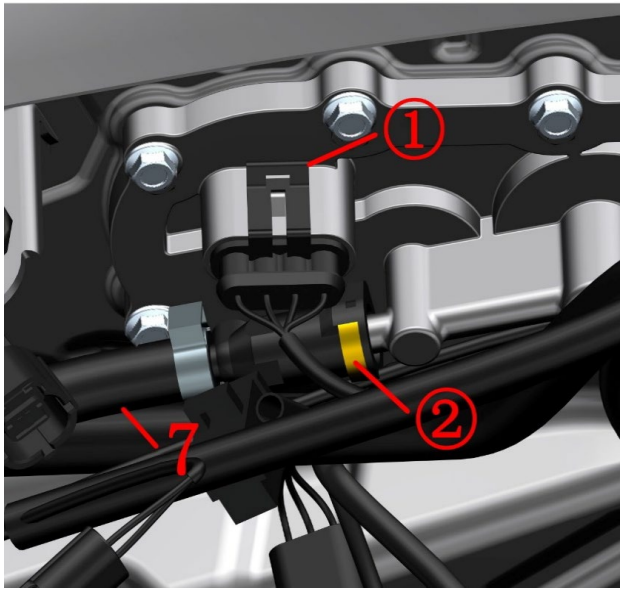


Fig.2 TANK LINER COMPONENT		Tank liner component（Small fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-043093	GB70.1M8×55 (environmental color)	2	
2	1251900-028093	ZT250-R fuel tank flat pad φ9×φ37.5×2	2	
3	1244100-020000	ZT250-S fuel tank pressure	2	
4	1244100-053000	ZT250-S second generation fuel tank gasket	2	
5	1274100-080000	ZT250-R cushion fixing block	1	
6	1224200-066000	ZT310PKE external antenna mount	1	
7	1050954-006000	ZT250-R EFI High Pressure Tubing Sub-assembly	1	

PROCEDURE:

●Tank liner assembly

Remove the bolt(1) with a hexagonal tool; remove the gasket(2) and press the rubber(3).

Lift the tail of the tank inner assembly and remove the rubber(4) and seat cushion(5).

Pull the main harness limit card① out and pull the plug down.

After removing the antenna fixing block(6) from the inner liner assembly, clean the remaining glue.

Locate the limit retaining ring② on the high-pressure tubing sub-assembly(7) and pull it out while pressing hard.

Continue to raise the tank liner assembly, clamp the tube clamp on the snorkel with pliers in the direction of the arrow, and remove the vent tube.

Swing the tank liner assembly slightly left and right while pulling it back obliquely upwards.

CAUTION:

●The seat cushion, side cover, fuel tank cover, etc. must be removed in advance.

●When removing the high-pressure oil pipe, be sure to wait until the engine and muffler are completely cooled before operating to prevent accidental ignition of the fuel and cause fire.

●Fireworks, answering or dialing should be strictly prohibited near the car-breaking site to prevent accidents.

●A small amount of fuel leakage is required when the high-pressure oil pipe sub-assembly is pulled out, and the fuel should be prevented from dripping to the outside of the engine or the muffler.

●It is recommended to use the oil pump to pump out the fuel or consume the fuel before disassembling the tank assembly.

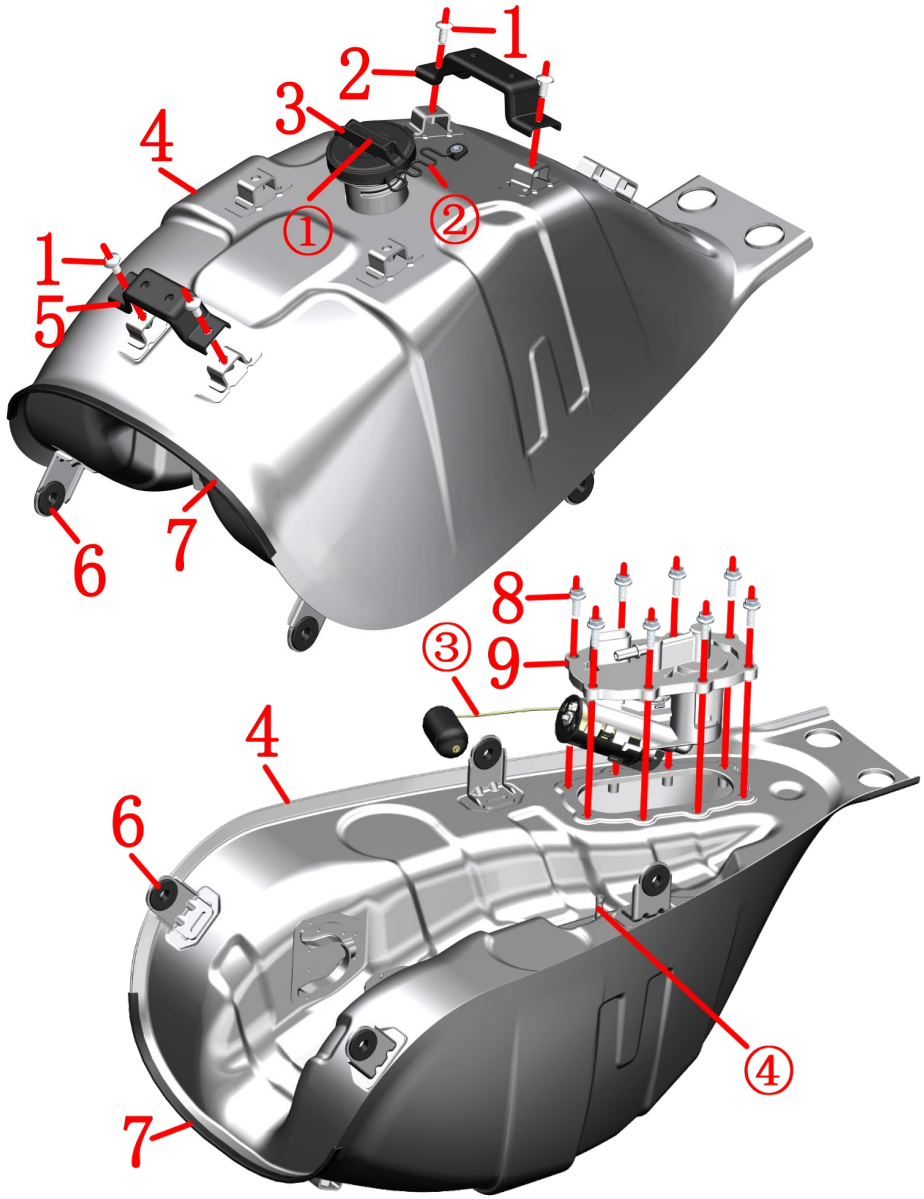


Fig.3 TANK LINER COMPONENT		Tank liner（Small fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
2	1274200-014000	ZT310-R fuel tank cover rear mounting bracket	1	
3	1224100-033000	ZT250-S threaded fuel tank cap	1	
4	4034200-001000	ZT310-R fuel tank liner	1	
5	1274200-013000	ZT310-R fuel tank cover front mounting bracket	1	
6	1244100-002000	ZT250-S side cover round glue	4	
7	1240300-021000	HJ125-6 shroud glass strip (1.5m)	0.17	
8	1250105-137093	GB5789M6×16 (environmental color)	8	
9	1050954-018000	T02 built-in fuel pump -300	1	

PROCEDURE:

●Fuel tank cover bracket

Remove the bolts(1) separately, and remove the tank cover to install the bracket(2) and the front bracket(5).

●Fuel tank cap

Pinch① by hand to remove the fuel tank cap(3) counterclockwise. Be careful not to pull the nylon cord② hard.

●Adhesive strip

Pull the strip(7) off the end of the strip by hand.

●Side cover round glue

Remove the side cover round rubber(6) from the tank liner(4).

●Fuel pump

After the Tank liner assembly is placed upside down, remove the bolts(8) with a sleeve.

When the fuel pump(9) is removed, the float connecting rod③ cannot be bent or bent to avoid inaccurate oil display.

CAUTION:

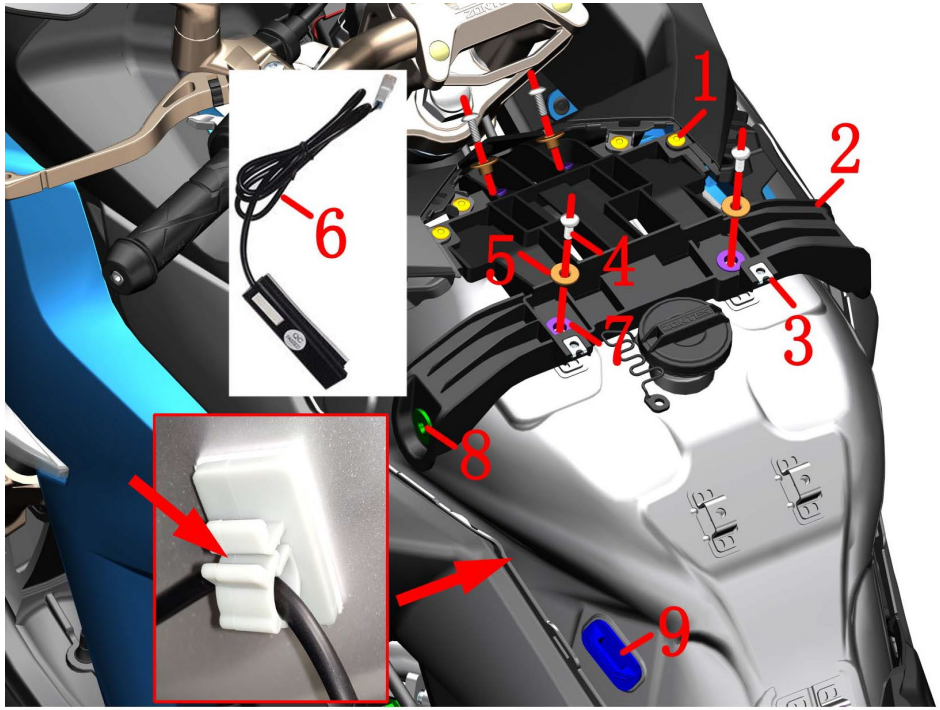
●Before removing the Tank liner assembly, it is recommended to use the oil pump to pump out the fuel or dissipate the fuel before disassembling.

●Fireworks, answering or dialing should be strictly prohibited near the car-breaking site to prevent accidents.

●Reverse the Tank liner assembly When disassembling the fuel pump, be sure to check that the fuel tank cap is tightened to prevent the remaining fuel from overflowing from the fuel tank port; the vent pipe 4 may have a small amount of fuel overflow when the fuel tank cap is turned back.

●When reassembling the fuel pump, be sure to clean the joint surface of the fuel pump sealant and the tank liner. When locking the bolt, the position should be locked to ensure uniform deformation of the seal gasket.

●When assembling the fuel tank cap, be careful to rotate 1 to the position shown in the figure. In other positions, it may interfere with the process clip of the fuel tank cover.



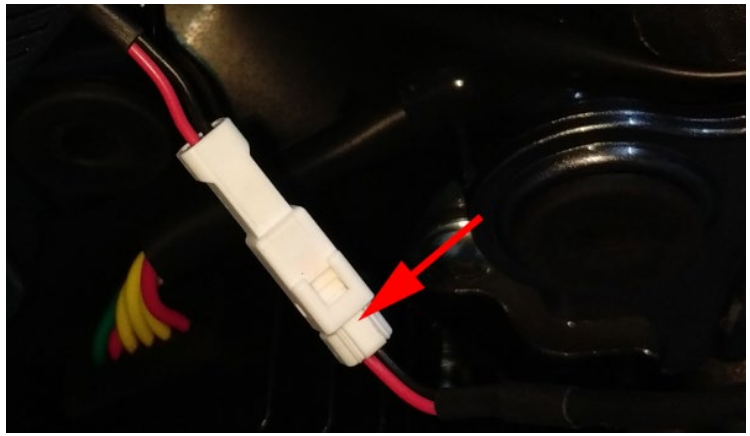


Fig.4 TANK LINER COMPONENT		Tank box assembly（Big fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224100-010000	ZT250－S swell nail	4	
2	1224200-141000	ZT310－X1 Tank box	1	
3	1251300-063093	splint M6×11×15(environmental color)	2	
4	1251100-102000	Non-standard bolt M6×16（304stainless）	4	
5	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	4	
6	1184200-053000	ZT310PKE external single antenna	1	
7	1244100-004000	ZT250－S Flanging bushing buffer	4	
8	1244100-002000	ZT250－S Side cover round rubber	2	
9	1244200-084000	ZT310-X1 fuel tank cover limit glue	2	

PROCEDURE:

●PKE external antenna

Separate the PKE filament terminal(6) from the tank box. if you want to remove the PKE antenna you need to fine the cable joint on the left of the motorcycle. Insert the flat-blade screwdriver into the antenna holder, remove the limit card and remove the cable from the holder; then remove the PKE antenna.Use a hot air gun to heat up a bit, remove the double-sided glue from the tank box, and clean the residual glue.

●Tank box assembly

Press down the center of the swell nail(1) with a small cross screwdriver,Remove the swell nail(1).

Remove 4 bolts(4) separately，Take down 4 pieces of bushings(5).

Remove the tank box assembly. Be careful not to pull the nylon rope from the tank cover.

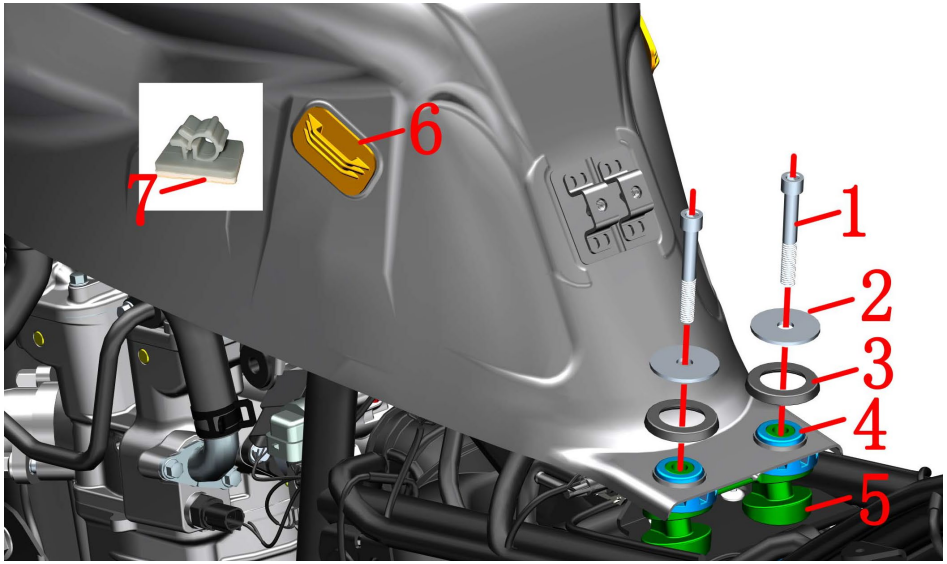
Remove 2 clamps(3)from the tank box、4 pieces side cover round rubber(8) and 4 pieces Buffer rubber(7).

The fuel tank cover limit glue (9) is double-sided adhesive glued to the tank liner.

CAUTION：

●The cushion, side cover, enclosure panel and tank cover should be removed in advance.

●The PKE external antenna is Velcro + double-sided tape glued to the tank box.



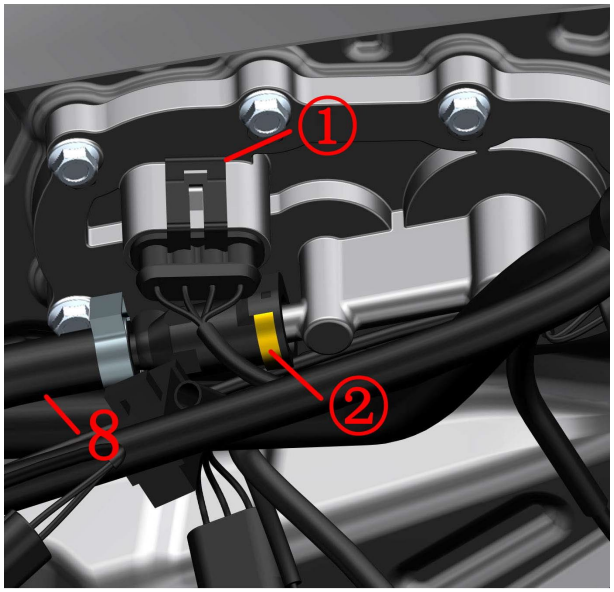


Fig. 5 Tank liner component		Tank liner component（Big fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-043093	GB70.1 M8×55 (environmental color)	2	
2	1251900-028093	ZT250-R fuel tank flat pad φ9×φ37.5×2 (environmental color)	2	
3	1244100-020000	ZT250-S fuel tank pressure	2	
4	1244100-053000	ZT250-S second generation fuel tank gasket	2	
5	1274100-080000	ZT250-R cushion fixing block	1	
6	1244200-084000	ZT310-X1 fuel tank cover limit glue	2	
7	1224200-066000	ZT310PKE external antenna mount	1	
8	1050954-006000	ZT250-R EFI High Pressure Tubing Sub-assembly	1	Delphi EFI
	1050954-035000	ZT310-R EFI High Pressure Tubing Sub-assembly		Bosch EFI

PROCEDURE:

●Tank liner component

Remove the bolt (1) with a hexagonal tool; remove the gasket(2) and press the rubber(3).

Lift the tail of the tank inner component and remove the rubber(4) and seat cushion (5).

Pull the main harness limit card ① out and pull the plug down.

After removing the antenna fixing block(6)from the inner liner component, clean the remaining glue.

Locate the limit retaining ring ② on the high-pressure tubing sub-assembly (8) and pull it out while pressing hard.

Continue to raise the tank liner assembly, clamp the tube clamp on the snorkel with pliers in the direction of the arrow, and remove the vent tube.

Swing the tank liner assembly slightly left and right while pulling it back obliquely upwards.

Remove 2 pieces of limit glue (6) and 1 piece of antenna holder(7) from the tank liner, both of which are glued to the tank liner with double-sided tape.

CAUTION:

●The seat cushion, side cover, fuel tank cover, etc. must be removed in advance.

●When removing the high-pressure oil pipe, be sure to wait until the engine and muffler are completely cooled before operating to prevent accidental ignition of the fuel and cause fire.

●Fireworks, answering or dialing should be strictly prohibited near the car-breaking site to prevent accidents.

●A small amount of fuel leaks when the high-pressure tubing sub-assembly is pulled out, and the fuel should be prevented from dripping to the outside of the engine or the muffler.

●It is recommended to use the oil pump to pump out the fuel or consume the fuel before disassembling the tank assembly.

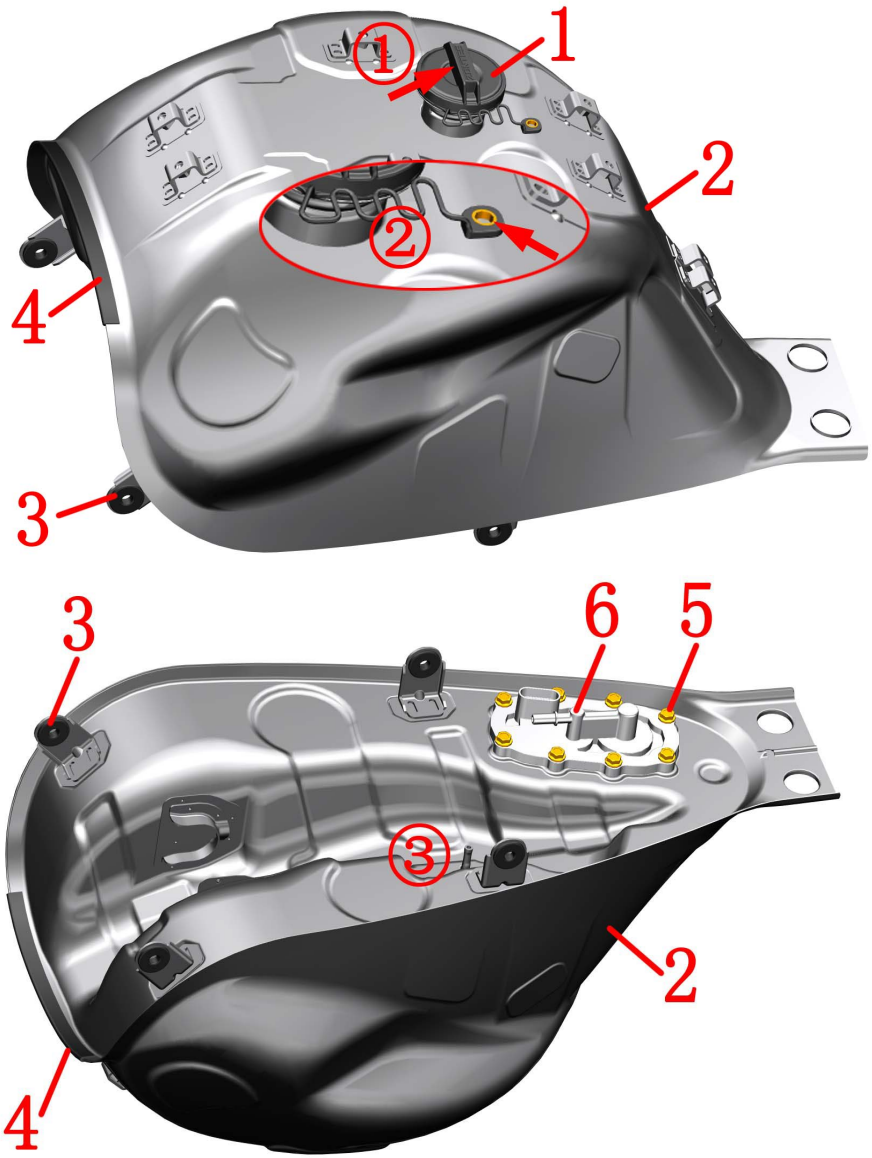


Fig. 6 Tank liner component		Tank liner component（Big fuel tank）	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-033000	ZT250-S threaded fuel tank cap	1	
2	4034200-009000	ZT310-T fuel tank liner	1	
3	1244100-002000	ZT250-S side cover round glue	4	
4	1240300-021000	HJ125-6 shroud glass strip (1.5m)	0.17	
5	1250105-137093	GB5789M6×16 (environmental color)	8	
6	1050954-031000	T02 built-in fuel pump－ZT310T	1	

PROCEDURE:

●Fuel tank cap

Pinch ① by hand to remove the fuel tank cap (1) counterclockwise. Be careful not to pull the nylon cord ② hard.The newly purchased fuel tank cap needs to be removed from the bushing at the arrow indication to be used in the large fuel tank state, otherwise the expansion screw cannot be inserted into the fixed nylon cord.

●Adhesive strip

Pull the strip (4) off the end of the strip by hand.

●Side cover round glue

Remove the side cover round rubber (3) from the tank liner (2).

●Fuel pump

After the tank liner component is placed upside down, remove the bolts (5) with a sleeve.

When the fuel pump (6) is removed, the float connecting rod cannot be bent or bent to avoid inaccurate oil display.

CAUTION:

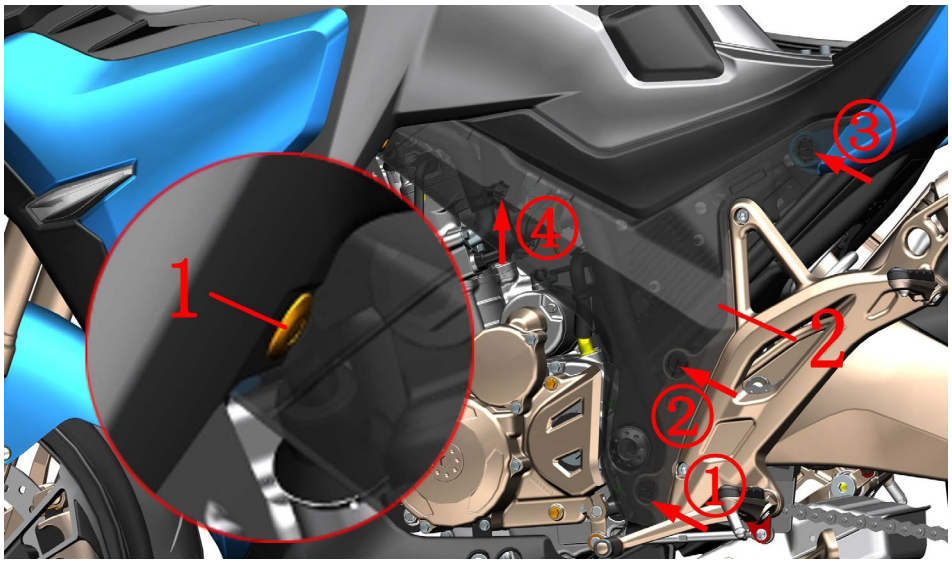
●It is recommended to use the oil pump to pump out the fuel or consume the fuel before disassembling the tank component.

●Fireworks, answering or dialing should be strictly prohibited near the car-breaking site to prevent accidents.

●Reverse the fuel tank inner component When removing the fuel pump, be sure to check if the fuel tank cap has been tightened to prevent the remaining fuel from overflowing from the fuel tank port; the vent pipe ④ may have a small amount of fuel overflow when the fuel tank cap is turned back.

●When reassembling the fuel pump, be sure to clean the joint surface of the fuel pump sealant and the tank liner. When locking the bolt, the position should be locked to ensure uniform deformation of the seal gasket.

●When assembling the fuel tank cap, be careful to rotate ① to the position shown in the figure. In other positions, it may interfere with the process clip of the fuel tank cover.



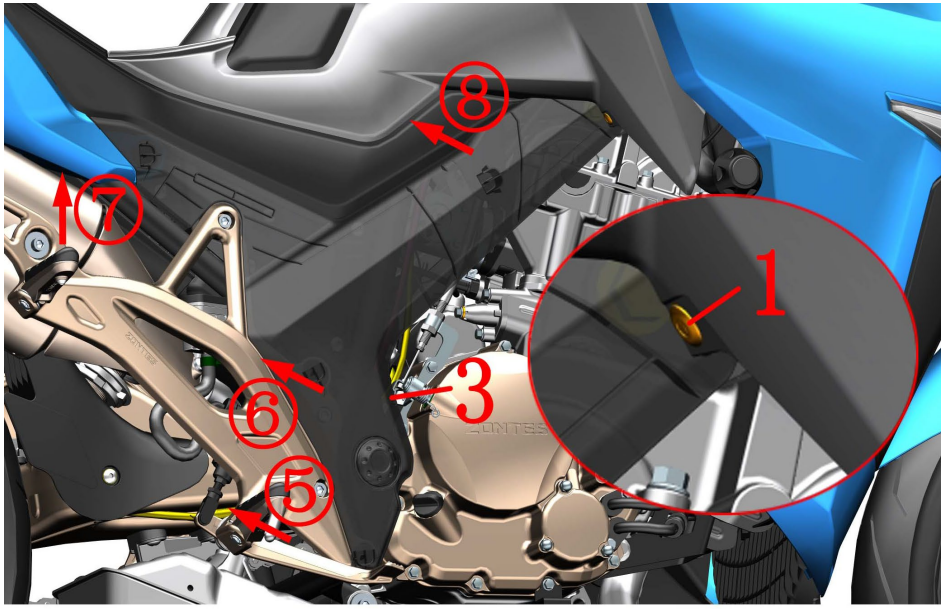


Fig.1 SIDE COVER COMPONENT		Side cover the lower part	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224100-010000	ZT250－S swell nail	2	
2	1224200-029000	ZT310－X Lower left cover	1	
3	1224200-031000	ZT310－X Lower left cover	1	

PROCEDURE：

●Side cover components

Press the center of the swell nail(1) with a small cross screwdriver， Remove the swelling nail(1).

Put your hand in the slot and pull it out.First pull out the card nail from the bottom up in the order of ①~④.

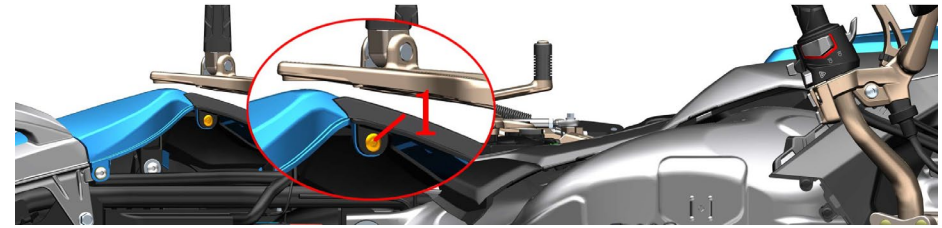
Grab the center of the left side of the cover(2)and pull back and remove.

Follow the above steps to remove the right side cover lowe(3).

CAUTION：

●The seat cushion, tank cover assembly and surround panel assembly should be removed in advance.

●When assembling, insert the expansion pin of the head of the side cover and fasten it to the upper part of the side cover-it's in order④-① or ⑧-⑤;Finally install the expansion nail.



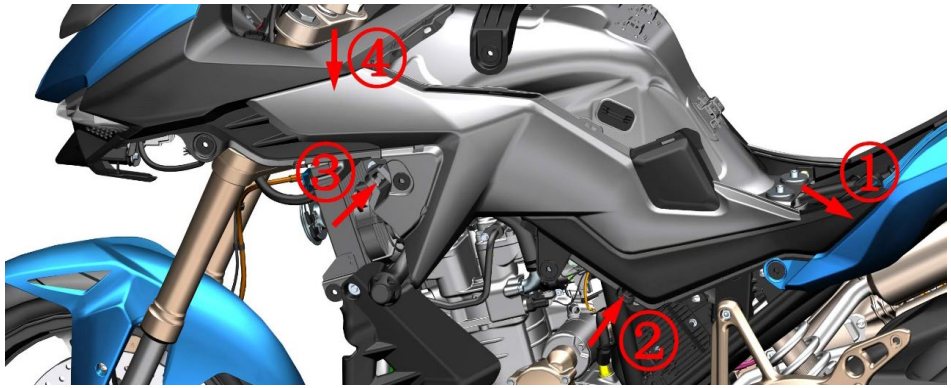


Fig.2 SIDE COVER COMPONENT		Left side cover upper component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224100-010000	ZT250－S swell nail	2	
2	4044201-011052	ZT310－X Iron nail grey upper left side cover	1	
	4044201-193051	ZT310-X2 iron grey upper left cover (red GP version)		GP version
	4044201-192051	ZT310-X2 iron grey ash left cover upper part (gem red GP version)		
	4044201-194051	ZT310-X2 iron grey upper left cover (bright blue GP version)		
	4044201-551051	ZT310－X Upper left side cover (matte dark gray/gem red GP version)		
	4044201-549051	ZT310－X Upper left side cover (matte dark gray)		
3	1244200-032000	ZT310－X Left side cover upper buffer	1	
4	1224200-028000	ZT310－X Middle left cover	1	
5	1251100-101000	Non-standard bolt M6×12（304 stainless）	2	
6	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	2	
7	1244100-052000	Flanging bushing buffer（φ8.5×φ14×1）	2	
8	1244100-002000	ZT250－S Side cover round rubber	2	
9	1251300-063093	splint M6×11×15(environmental color)	2	

PROCEDURE：

●Left side cover upper assembly

Using small cross screwdriver to press down on the center of the swell nail, remove the swell nail(1).

First, the card buckle① at the outlet is pulled out, and then the card nail② and the impeller③ are pulled out. Finally, the card button at the outlet at the outlet④ is pulled out, and the upper component at the left side of the cover is removed.

Flip back，Remove the 2 bolts(5),Take off the liner(6) and the buffer(7).

Take off the expansion nail(1).

Separate the upper part of the left cover from the middle.

The cyanobacteria of the side cover(8) were removed from the upper part of the left cover(2) and the middle part of the bottom cover(1) respectively.

Remove the splint (9) from the upper part of the left cover(2).

CAUTION：

●The seat cushion, tank cover assembly and surround panel assembly should be removed in advance.

●When assembling, the upper part④ of the left side cover shall be completed with the buckle at the upper part of the automation component，then assemble ③ and ②；complete ①；Finally,assemble the bolts.

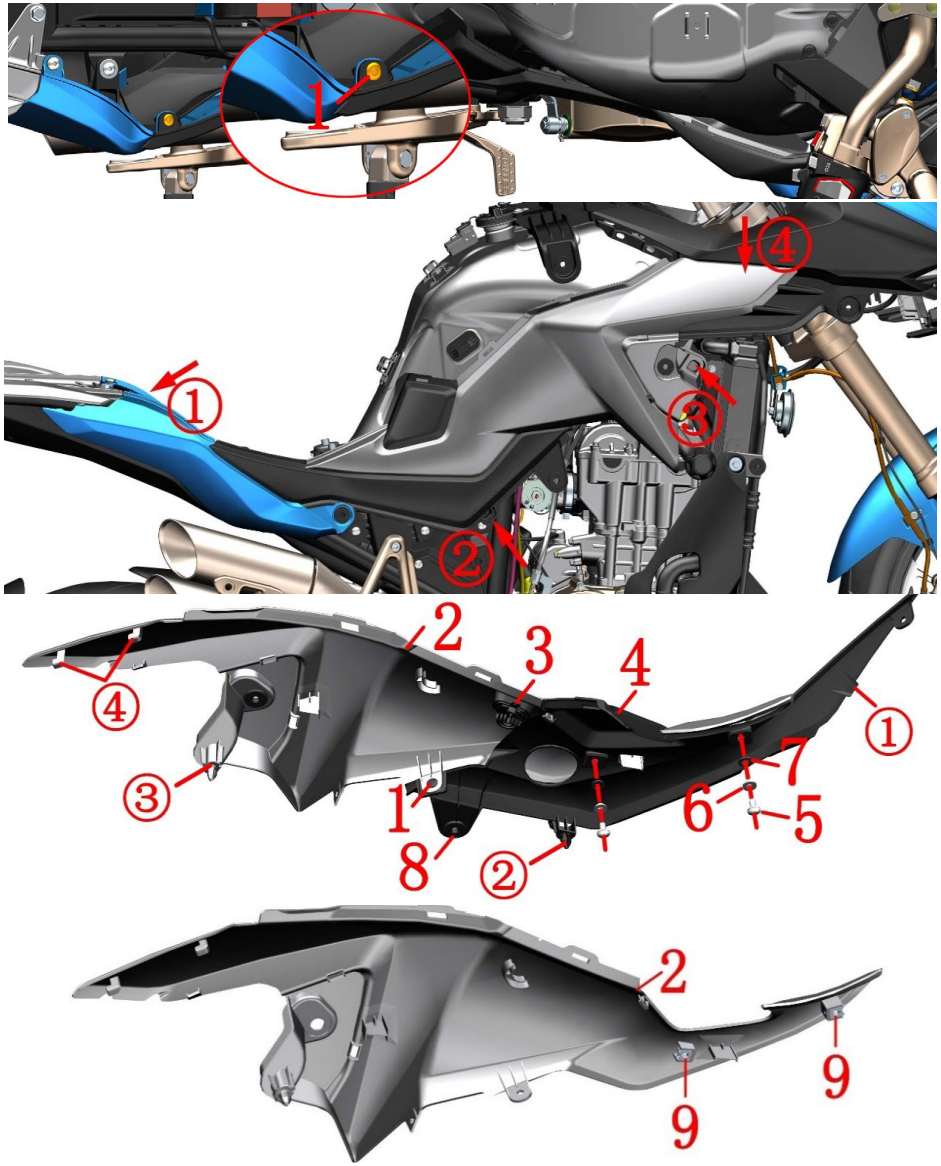


Fig.3 SIDE COVER COMPONENT		Right side cover upper component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224100-010000	ZT250－S swell nail	1	
2	4044201-012052	ZT310－X The upper right side cover of iron nail ash	1	
	4044201-196051	ZT310-X2 iron gray ash right upper cover (red GP version)		GP version
	4044201-195051	ZT310-X2 Iron Grix Right Side Cover Upper Part (Gem Red GP Edition)		
	4044201-197051	ZT310-X2 iron grey top right cover (bright blue GP version)		
	4044201-552051	ZT310－X Upper right side cover (matte dark gray/gem red GP version)		
	4044201-550051	ZT310－X Upper right side cover (matte dark gray)		
3	1244200-033000	ZT310－X Right side cover upper buffer	1	
4	1224200-030000	ZT310－X Middle right side cover	1	
5	1251100-101000	Non-standard bolt M6×12（304 stainless）	2	
6	1274100-057095	Flanging bushingφ6.2×φ8.4×3.5＋φ14×1.5	2	
7	1244100-052000	Flanging bushing buffer（φ8.5×φ14×1）	2	
8	1244100-002000	ZT250－S Side cover round rubber	2	
9	1251300-063093	splint M6×11×15(environmental color)	2	

PROCEDURE：

●Right side cover upper assembly

Using small cross screwdriver to press down on the center of the swell nail, remove the swell nail(1).

First,pls pull out the snap on ①,then take out the bolts ②and ③,finally,pull out ②and ③, finally,take out the snap on ④,Remove the right cover upper assembly.

Flip it over to the back,remove 2 bolts(5),remove bush(6)and buffer(7).

Remove bolts(1).

Separate the upper part of the right cover from the middle.

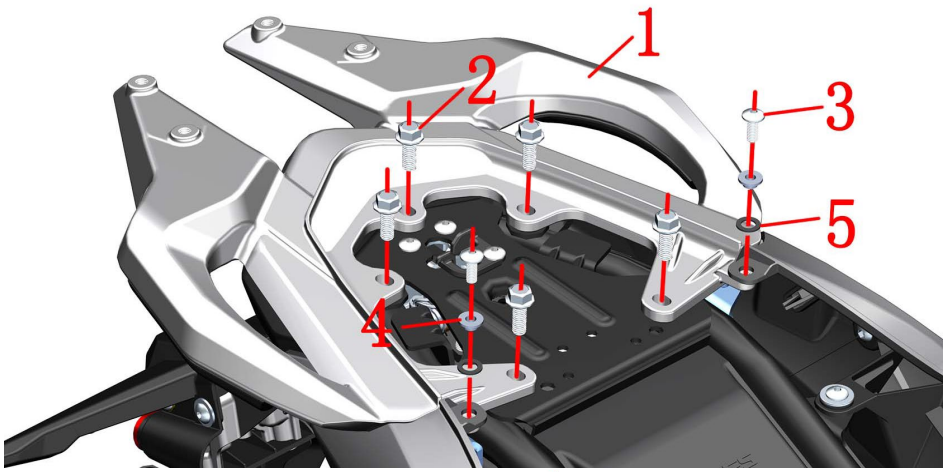
Remove the side cover circle glue (8) from the upper of right side cover and middle part(4).

Remove the splint(9)from the top of the right cover(2).

CAUTION：

●The seat cushion, tank cover assembly and surround panel assembly should be removed in advance.

●When assembling, the upper part④ of the left side cover shall be completed with the buckle at the upper part of the automation component，then assemble ③ and ②;complete ①;Finally,assemble the bolts.



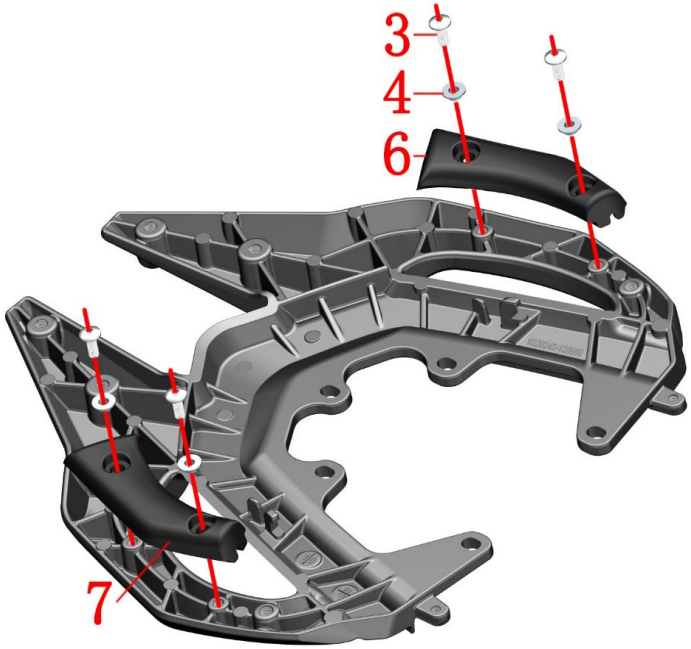


Fig.1 REAR COVER COMPONENT		Rear armrest assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1274200-044000	ZT310-X rear armrest	1	
	4114200-003051	ZT310-X rear armrest (matte dark gray)		
2	1250105-142093	GB5789M8×20 (environmental color)	5	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	6	
4	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	6	
5	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	2	
6	1244200-020000	ZT310-X rear armrest right pad rubber	1	
7	1244200-019000	ZT310-X rear armrest left pad rubber	1	

PROCEDURE:

●Rear armrest assembly

Remove the 2 bolts (3) and remove the bushing(4) and cushion rubber(5).

Remove the 5 bolts(2)and pull the rear armrests diagonally behind.

●Rear armrest rubber assembly

Turn to the back, remove the bolt(3), remove the bushing(4), and then remove the left pad(7) and right pad (6).

CAUTION:

●The material should be protected during the disassembly process to prevent damage to the paint surface.

●The bottom of the rear armrest has a buckle and a tail skirt. It is not possible to directly push up to prevent the buckle from breaking.

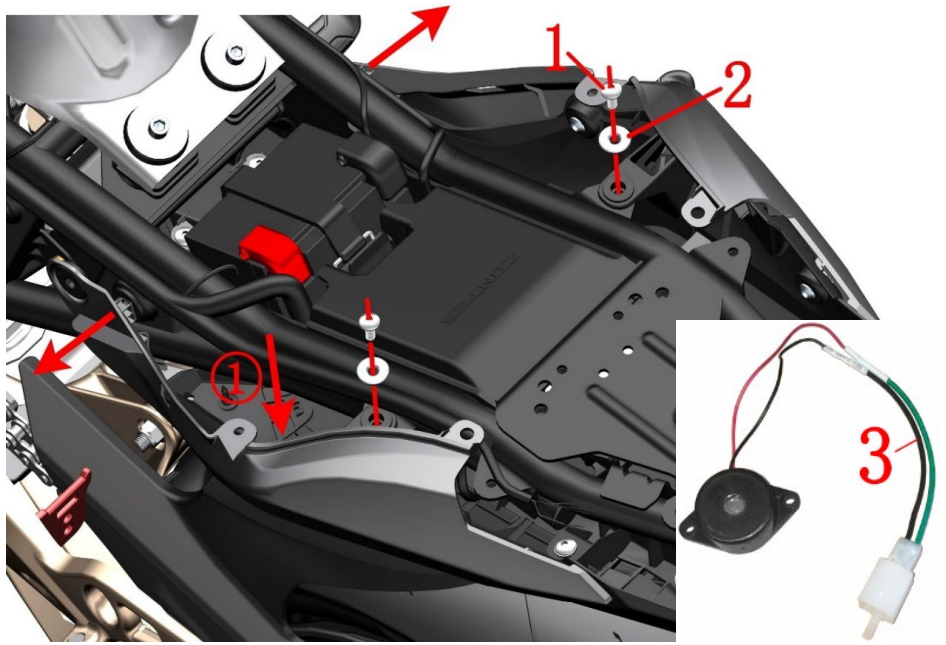


Fig.2 REAR COVER COMPONENT		Rear mud board assembly 1(lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
2	1274100-007000	ZT250-S flanged bushing	1	
3	1184200-016000	ZT310 PKE buzzer	1	
4	1224200-044000	ZT310-X tail skirt middle cover	1	
5	1240300-071000	Cuff bushing cushioning rubber（φ11×φ16×1）	4	
6	1251700-058093	Flanging bushing φ8.2×φ11×4.5＋φ16×1.5(environmental color)	4	
7	1251100-122093	Non-standard boltM8×16(environmental color)	4	

PROCEDURE：

●Back skirt assembly

Locate the taillight and PKE buzzer(3) plug on the left side of the body and unplug it.

Remove the 2 bolts (1) and remove the bushing(2).

Remove the two snaps at the indication of the arrow on the middle cover(4) and remove。

Remove the bolt(7) and remove the bushing(6) and the cushion rubber(5).

Grab the pin on the front of the left skirt and pull it out.

Grab the pin on the front of the right skirt and pull it out.

Remove the rear skirt assembly from the frame by slightly separating the front of the left and right skirts.

Remove the PKE buzzer (3) by heating it back and forth with a heat gun. Clean up the remaining offset.

CAUTION：

●The material should be protected during the disassembly process to prevent scratching of the lamp and paint surface.

●Do not pull the cable directly.

●Pull out the nail and pay attention to the direction and strength of the force to prevent damage.

●When reassembling, check whether there is any pressure on the wire to prevent short circuit when tightening the bolt.

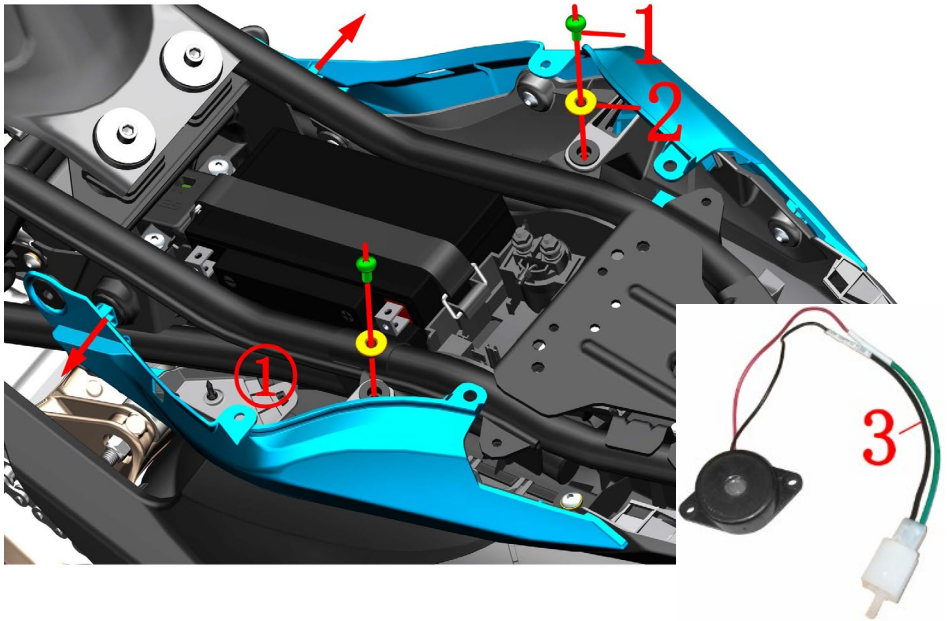


Fig.3 REAR COVER COMPONENT		Rear mud board assembly 1(colloid battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
2	1274100-007000	ZT250-S flanged bushing	1	
3	1184200-016000	ZT310 PKE buzzer	1	
4	1224200-044000	ZT310-X tail skirt middle cover	1	
5	1240300-071000	Cuff bushing cushioning rubber（φ11×φ16×1）	4	
6	1251700-058093	Flanging bushing φ8.2×φ11×4.5＋φ16×1.5(environmental color)	4	
7	1251100-122093	Non-standard boltM8×16(environmental color)	4	

PROCEDURE：

●Back skirt assembly

Locate the taillight and PKE buzzer(3) plug on the left side of the body and unplug it.

Remove the 2 bolts (1) and remove the bushing(2).

Remove the two snaps at the indication of the arrow on the middle cover(4) and remove。

Remove the bolt(7) and remove the bushing(6) and the cushion rubber(5).

Grab the pin on the front of the left skirt and pull it out.

Grab the pin on the front of the right skirt and pull it out.

Remove the rear skirt assembly from the frame by slightly separating the front of the left and right skirts.

Remove the PKE buzzer (3) by heating it back and forth with a heat gun. Clean up the remaining offset.

CAUTION：

●The material should be protected during the disassembly process to prevent scratching of the lamp and paint surface.

●Do not pull the cable directly.

●Pull out the nail and pay attention to the direction and strength of the force to prevent damage.

●When reassembling, check whether there is any pressure on the wire to prevent short circuit when tightening the bolt.

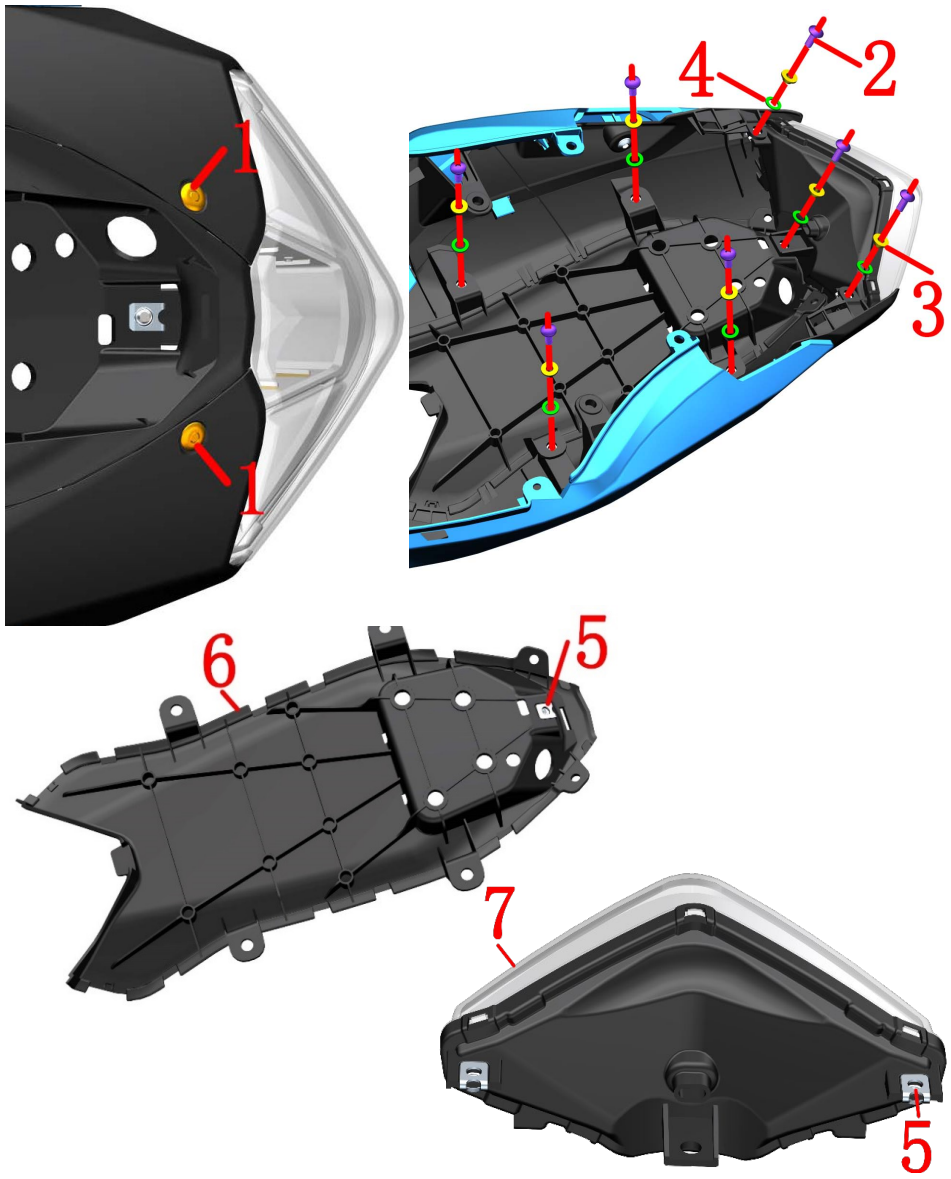


Fig.4 REAR COVER COMPONENT		Rear skirt assembly 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224100-010000	ZT250-S expansion nail	2	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	7	
3	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	7	
4	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	7	
5	1251300-063093	Splint M6×11×15 (environmental color)	3	
6	1224200-043000	ZT310-X tail skirt middle	1	lithium battery
	1224200-165000	ZT310-X tail skirt middle (colloid battery)		colloid battery
7	1174200-008000	ZT310-X tail light	1	

PROCEDURE:

●Back skirt assembly

Flip to the back of the rear skirt assembly and use a small Phillips screwdriver to expand the center of the nail and remove the expansion pin (1).

Flip down to the bottom, remove the 7 bolts (2) in sequence, and remove the bushing (3) and cushion rubber (4).

The rear skirt assembly is split into left and right skirt assemblies, a middle assembly, and a taillight assembly.

Remove the splint (5) from the middle of the skirt (6).

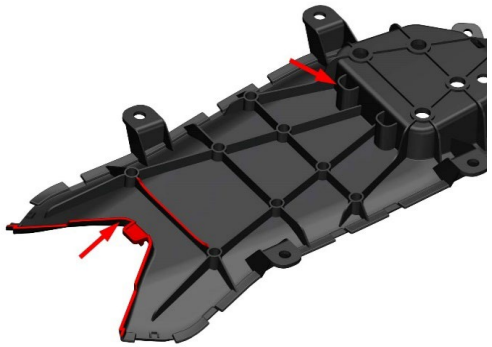
Remove the splint (5) from the taillight (7).

CAUTION:

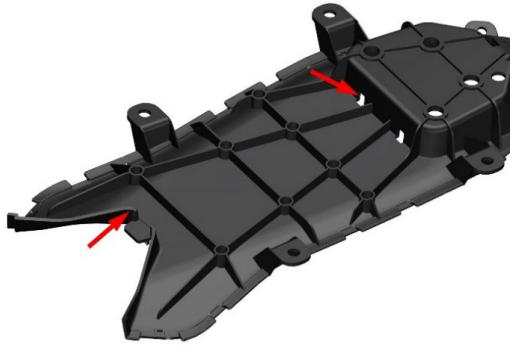
●The material should be protected during the disassembly process to prevent scratching of the lamp and paint surface.

●Do not pull the cable directly.

●Pay attention to force and force direction when removing the buckle to prevent damage to the buckle.



ZT310-X tail skirt middle (colloid battery)



ZT310-X tail skirt middle

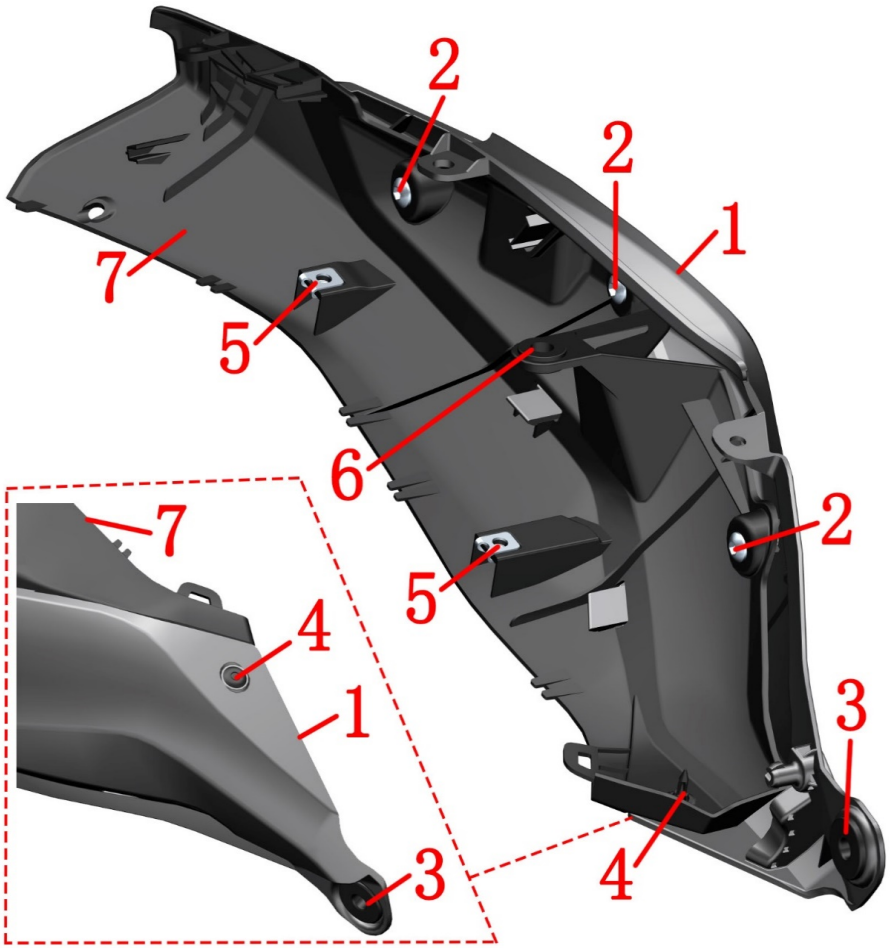


Fig.5 REAR COVER COMPONENT		Left rear skirt component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	4044201-009064	bright blue tail skirt left decorative cover	1	Regular version
	4044201-057001	pearl white tail skirt left decorative cover		
	4044201-047021	special black tail skirt left decorative cover		
	4044201-047051	deep bright gray tail skirt left decorative cover		
	4044201-103015	gemstone red tail skirt left decorative cover		
	4044201-218002	ZT310-X2 pearl white tail skirt left decorative cover (red GP version)		GP version
	4044201-216021	ZT310-X2 special black tail skirt left decorative cover (gem red GP version)）		
	4044201-220052	ZT310-X2 Deep Bright Gray Skirt Left Decorative Cover (Bright Blue GP Version)		
2	1251200-033093	Non-standard self-tapping screws ST4.2×12	3	
3	1244100-002000	ZT250-S side cover round glue	1	
4	1224100-010000	ZT250-S expansion nail	1	
5	1251300-063093	Splint M6×11×15 (environmental color)	2	
6	1244100-004000	ZT250-S Flanging Bushing Buffer	1	
7	1224200-041000	ZT310-X tail skirt left	1	lithium battery
	1224200-163000	ZT310-X tail skirt left(colloid battery)		colloid battery

PROCEDURE：

●Left rear skirt component

Remove the side cover round rubber (3), the cleat (5) and the cushion rubber (6) from the left tail skirt trim cover (1).

Use a small Phillips screwdriver to expand the center of the nail and remove the expansion pin (4).

Remove the screw (2) with a hexagon socket tool.

Separate the left tail skirt trim cover (1) from the tail skirt left side (7).

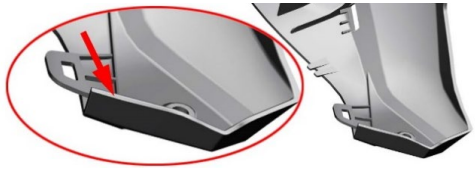
CAUTION：

●Protect the material during the disassembly process to prevent scratching the paint surface.

●Pay attention to force and force direction when removing the buckle to prevent damage to the buckle.

ZT310-X tail skirt left(colloid battery)

ZT310-X tail skirt left



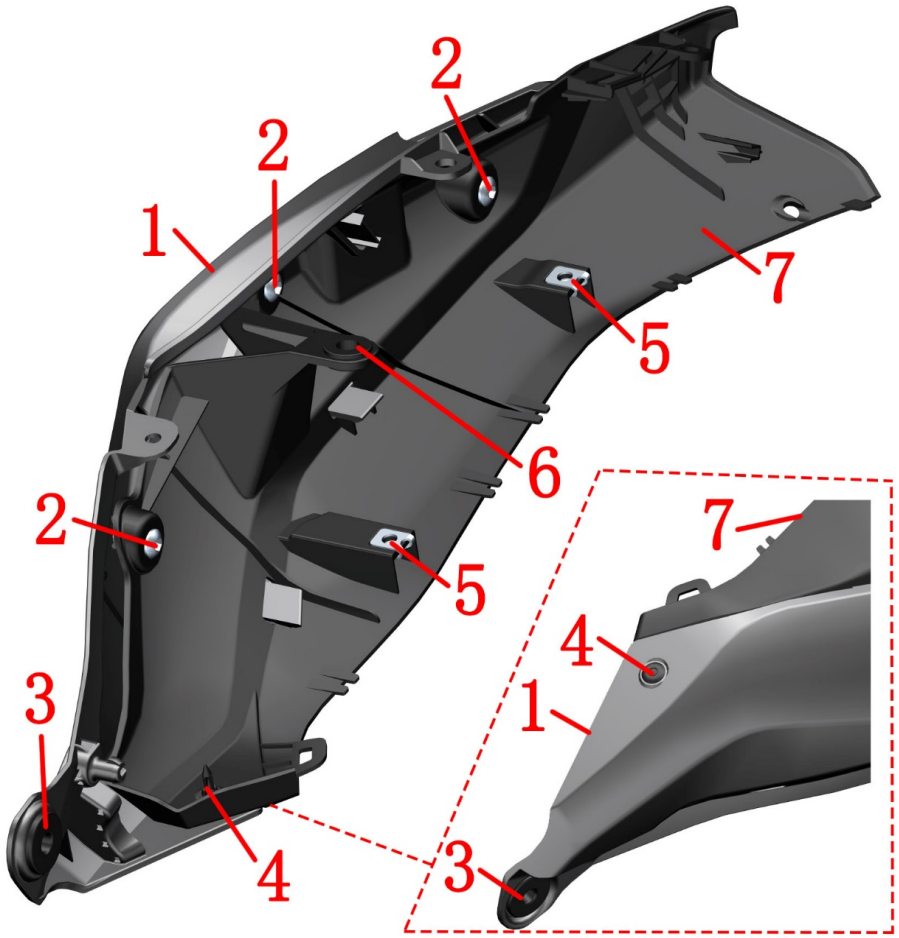


Fig.6 REAR COVER COMPONENT		Right rear skirt component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	4044201-010064	bright blue tail skirt right decorative cover	1	Regular version
	4044201-058001	pearl white tail dress right decorative cover		
	4044201-048021	special black tail skirt right decorative cover		
	4044201-048051	deep bright gray tail skirt right decorative cover		
	4044201-104015	gem red tail skirt right decorative cover		
	4044201-219002	ZT310-X2 pearl white tail dress right decorative cover (red GP version)		GP version
	4044201-217021	ZT310-X2 special black tail skirt right decorative cover (gem red GP version)		
	4044201-221052	ZT310-X2 dark bright gray tail skirt right decorative cover (bright blue GP version)		
2	1251200-033093	Non-standard self-tapping screws ST4.2×12	3	
3	1244100-002000	ZT250-S side cover round glue	1	
4	1224100-010000	ZT250-S swell nail	1	
5	1251300-063093	Splint M6×11×15 (environmental color)	2	
6	1244100-004000	ZT250-S Flanging Bushing Buffer	1	
7	1224200-042000	ZT310-X tail skirt right	1	lithium battery
	1224200-164000	ZT310-X tail skirt right(colloid battery)		colloid battery

PROCEDURE:

●Right rear skirt component

Remove the side cover round rubber (3), the cleat (5) and the cushion rubber (6) from the right tail skirt trim cover (1).

Use a small Phillips screwdriver to expand the center of the nail and remove the swell nail (4).

Use a small Phillips screwdriver to expand the center of the nail and remove the swell nail (4).

Separate the right apron trim cover (1) from the right skirt (7).

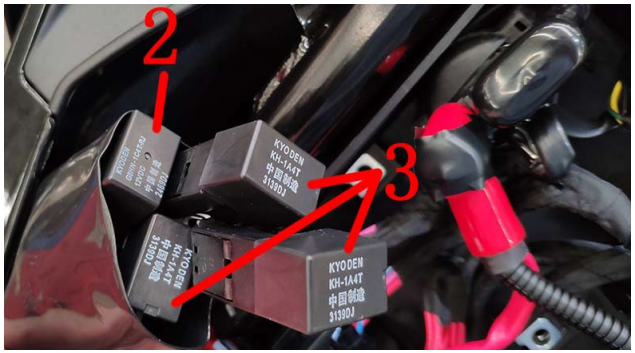
CAUTION:

●Protect the material during the disassembly process to prevent scratching the paint surface.

●Pay attention to force and force direction when removing the buckle to prevent damage to the buckle.

ZT310-X tail skirt right(colloid battery)

ZT310-X tail skirt right



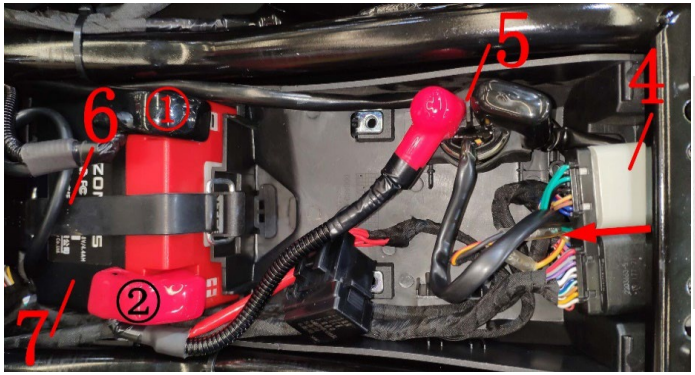


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Fig.7 REAR COVER COMPONENT		Electrical device cover assembly(lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224200-039000	ZT310 electric device box cover	1	
2	1184200-024000	ZT310-R side bracket relay	1	G8HN-1C4T-RJ
3	1184100-017000	ZT250-S EFI Relay	3	KH-1A4T
4	1050954-019000	MT05.2 engine controller - ZT310-RC4 type	1	
5	1184100-010000	ZT250-S start relay	1	
6	1244100-072000	ZT250－R Battery straps	1	
7	1184100-116000	ZT250 Lithium battery	1	
8	1274200-078000	ZT310－R Vehicle tool	1	

PROCEDURE：

●Electrical device box cover

Pull the metal buckle of the electrical device box cover (1) in the direction of the arrow, pull it down, remove it.

●Relay

Pull up the cable and unplug the side bracket relay (2) and the EFI relay (3).

Open the positive and negative protective caps of the starter relay (5) (red is positive, black is negative), unscrew the nut to remove the positive and negative connectors, and then screw the nut back to the relay stud to prevent loss. Locate the starter relay and the main cable connector.

●Engine controller (ECU)

Grasp the connector 1 of the ECU (4) and pull it out in the direction of the arrow to separate the ECU (4) from the main cable.

●Fuse box

There is a corresponding description on the fuse box cover.

●Battery straps, vehicle tools

Remove the metal buckle of the battery strap(1) and pull it out of the limit buckle, then remove the vehicle tool (3)

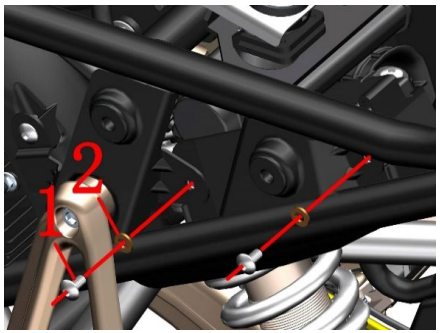
●Battery

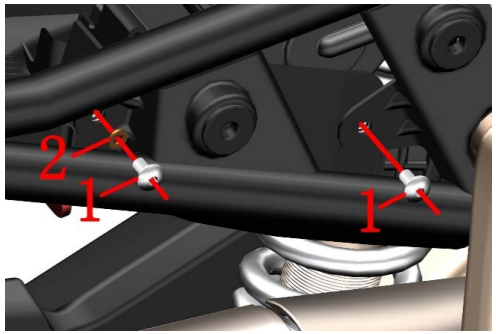
Unscrew the black protective cap ② to remove the negative pole；then remove the red protective cap ① and remove the positive pole；remove the battery. For reinstallation.

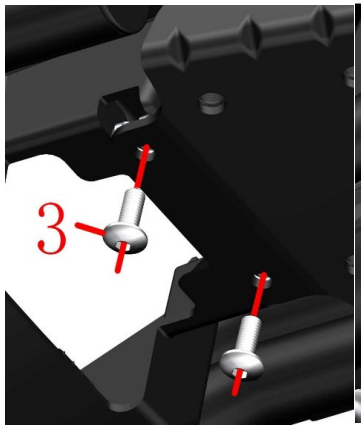
CAUTION:

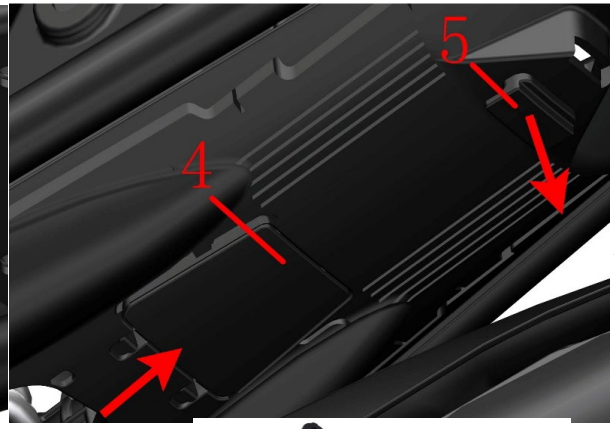
●Reassemble the battery or fuse, etc. Be sure to reset the EFI hardware: Turn on the key-Ignition- 10 seconds After the ignition is turned off - After 10 seconds Turn on the ignition switch and repeat 2 times.

●If the battery has reached the end of its useful life, it should be handed over to a qualified organization or a dedicated recycling center for proper disposal. it is forbidden to discard it.

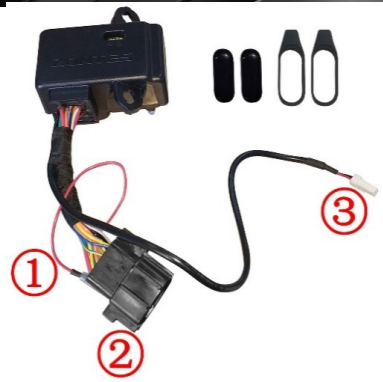








ZT310 PKE Controller（single antenna）



ZT310 PKE Controller（bracelet edition）

Fig.8 REAR COVER COMPONENT		Electrical device box component 1 (lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
2	1251513-001019	6.3 x 12 x 1.6 copper gasket	3	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
4	1224200-040000	ZT310 Electrical device box cover	1	
5	1244200-047000	ZT310-X Electric device box back glue	1	

PROCEDURE:

●Electrical device box component

Remove the bolts(1) on the left side of the front of the electrical component box remove the two washers(2).

Remove the bolts(1) on the right side of the front of the electrical component box remove the washers(2).

Remove the(3) on the bottom of the rear frame of the frame.

Push the card in the direction of the arrow to snap the lower cover(4).

Pull down the electrical device box backing(5) in the direction of the arrow.

Old state PKE:

Find the connectors③ and ④ of the PKE antenna, unscrew the nut and pull it out. Connector③ short antenna; connector④ long antenna.

New states PKE:

Find and unplug the connectors⑤ of the PKE antenna(single).

Hold the electric device box component in one hand and grasp the front part downwards with one hand. Unplug the PKE cable connectors① and ② and remove the electrical device box component.

CAUTION:

●Do not pull the cable directly when unplugging it.

●If you need to replace the PKE fuse, you can directly replace the lower cover of the electrical device box to replace it.

●When refitting connector ②, check whether the metal contacts inside are bent. If necessary, straighten them first.

●The old single-antenna version of the PKE assembly can be purchased directly as a bracelet version of the PKE.

●The number of copper gaskets (2). for some vehicles produced in the early stage sats is 8 pcs, and the production is now 3 pcs.

Fig.9 REAR COVER COMPONENT		Electrical device box component 2(lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
2	1184200-054000	ZT310 PKE Controller（single antenna ）	1	out of stock
	1184200-137000	ZT310 PKE Controller（bracelet edition)		
3	1251300-063093	Plywood M6×11×15 (environmental color)	8	
4	1184100-080000	ZT250-S Fuse (15A)	1	For after-sale
5	1224200-038000	ZT310 Electrical Device Box	1	
6	1240300-007000	HJ125-6 Battery Pad	1	
7	1184200-043000	PKE key shell（containing key glue+key ring）	1	For after-sale
8	1184200-128000	ZT310 Universal Fuse（15A small）	2	bracelet edition after-sale
9	1244200-100000	ZT310 Induction key glue ring	1	

PROCEDURE:

●PKE controller

Remove the bolt(1) and remove the PKE controller(2).

●Electrical device box component

Remove 8 pieces of plywood nuts(3) from the electrical component box(5).

Remove the battery pad(6) and clean the remaining adhesive.

●Fuses

Unplug the fuse(4) or (8) and check if it is blown. If it has blown, replace the fuse of the same specification.

The dual antenna and the single antenna PKE controller used medium 15A fuses.

The bracelet edition PKE controller used 2pcs small fuses.

CAUTION:

●When inserting or removing the fuse, pay attention to the vertical alignment and then disassemble it. Do not bend it. Use a qualified fuse.

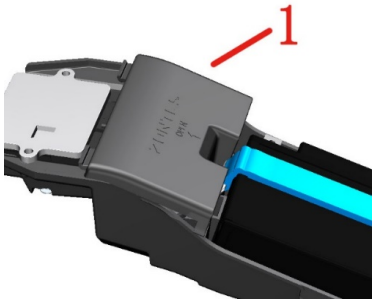
●PKE cables need to be protected. Non-professionals are strictly prohibited from dismantling the PKE system components, as this may cause permanent damage.

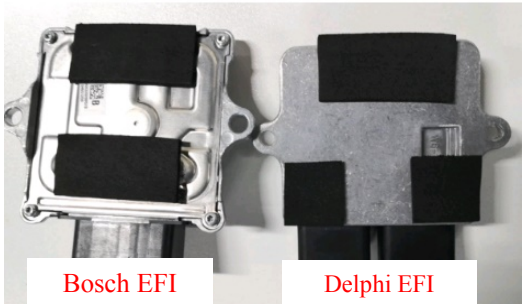
●Please refer to the driving manual for details on the use of PKE.

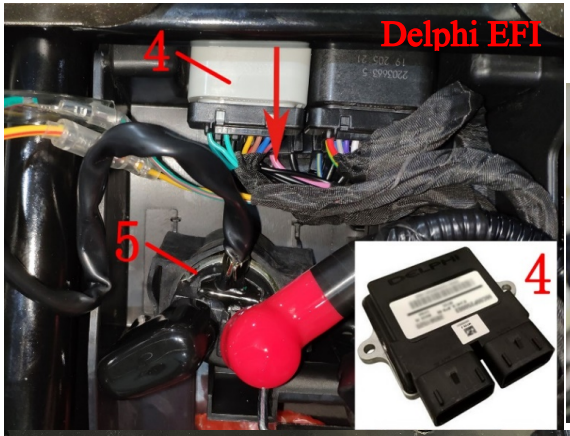
●PKE key shell（containing key glue+key ring） just for after-sale to change the shell,no internal electrical appliances.

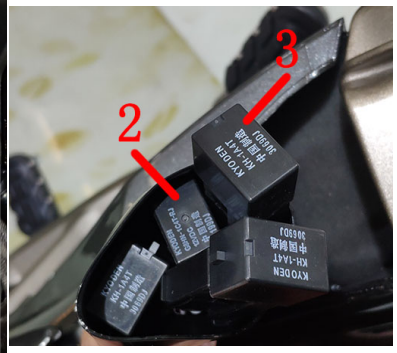
●The single antenna and dual antenna PKE controller cannot be universal.If you need to replace dual antenna PKE,you must buy 1184200-053000 ZT310PKE external single antenna at the same time.

●The button battery model used for the single antenna version is: CR2450; the bracelet version is: CR1225.









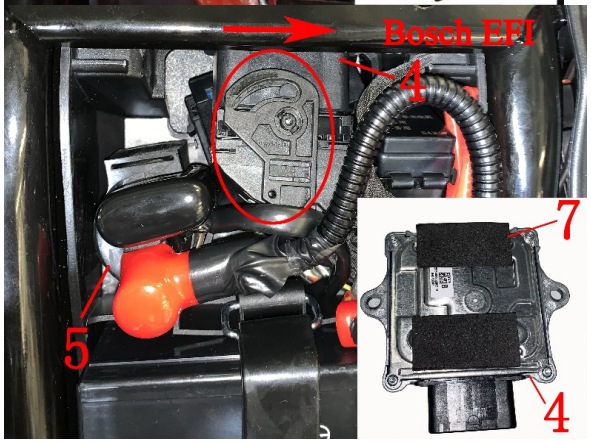


Fig. 13 REAR COVER COMPONENT		Electrical component (colloid battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-176000	Colloid battery electric device box upper cover	1	
2	1184200-024000	ZT310－R Side bracket relay	1	G8HN-1C4T-RJ
3	1184100-017000	ZT250－S EFI relay	3	KH-1A4T
4	1050954-019000	MT05.2 Engine Controller - Model ZT310-RC4	1	Delphi EFI
	1050954-037000	MSE6.0 Controller-ZT180MN		Bosch EFI
5	1184100-010000	ZT250-S Start relay	1	
6	1184200-016000	ZT310 PKE buzzer	1	
7	1240300-007000	HJ125－6 Battery rubber gasket	3	

PROCEDURE:

●Relay

Remove the colloid battery electric device box upper cover (1).

Pull up the cable and unplug the side stand relay (2) and the EFI relay (3).

Turn off the positive and negative.

protective rubber caps (red for the positive and black for the negative) of the starter relay (5). Remove the positive and negative connectors by unscrewing the nut, and screw the nut back onto the relay stud to prevent loss.

Find the starting relay and main cable connector unplugged.

●Engine Control Unit（ECU）

Delphi EFI: Hold the ECU (4) connector in the direction of the arrow and separate the ECU (4) from the main cable.

Bosch EFI: Urn the switch on ECU(4) in the direction of the arrow and pull it out to separate ECU(4) from the main cable.

●Fuse box

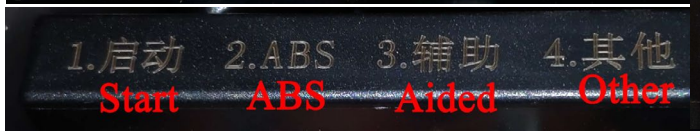
Fuse box cover with corresponding instructions.

●PKE buzzer

Remove the PKE buzzer (6). Clean up the remaining offset.

CAUTION:

●Starting from July 10, 2020, all ECUs need to add battery pads, as shown in the upper left picture.



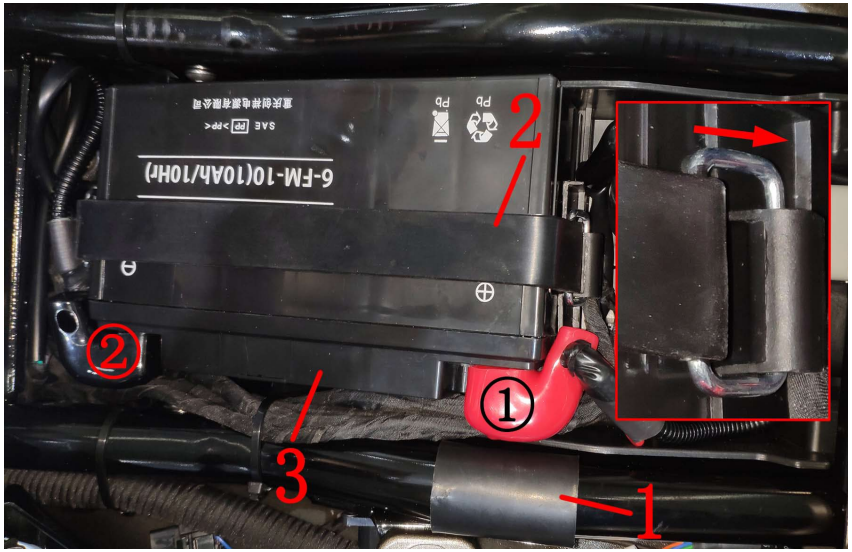


Fig. 11 REAR COVER COMPONENT		Battery component (colloid battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1240100-023000	Battery anode protection glue	1	
2	1244200-111000	ZT310 gel battery strap	1	
3	1184200-099000	ZT310 colloid battery (6-FM-10/10Ah)	1	
4	1184200-163000	ZT310 lead acid battery charger	1	

PROCEDURE:

●Battery straps

Pull the metal snap ring ③ of the battery strap (2) in the direction of the arrow, press it down, remove the positive end ,by negative extreme temporarily can not be removed.

●Battery

Unscrew the black protective cap ② to remove the negative pole; then remove the red protective cap ① and remove the positive pole; remove the battery. For reinstallation, connect the positive electrode first, then connect the negative electrode. No parallel battery charging or ignition.Just use the battery charger"ZONTES" provide for you. The bracelet version of the PKE assembly integrates a charging interface

●Battery anode protection glue

Always check that the center of the battery anode protection glue is aligned to the center of the battery positive after the battery is assembled, and dose the read protective cap cover the positive. Prevents the positive battery from coming into contact with the frame.

CAUTION:

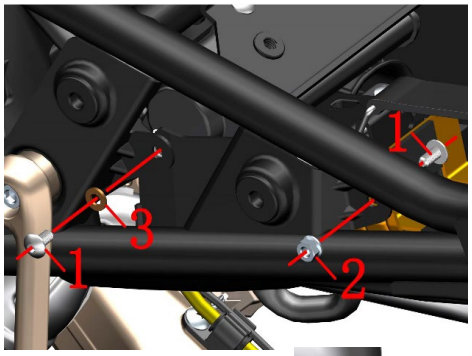
●Be careful not to overcharge the charging time. About the use and maintenance of the battery see the instructions.

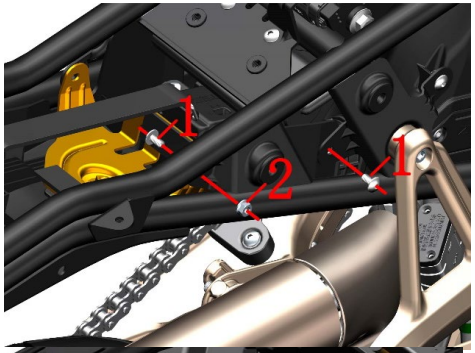
●Attention should be paid to the discomponent process to avoid damaging the material. Attention must be paid to the installation sequence when removing the battery.

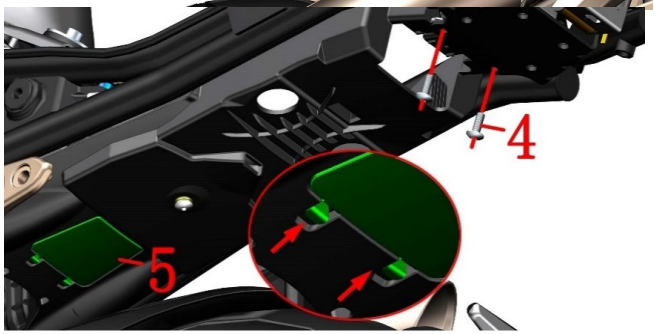
●The battery voltage should be checked regularly. If it is lower than 12.8V, it is recommended to charge it in time; it must not be overcharged; it should be taken out of storage for a long time without being used, and it should be charged once a month.

●Reassemble the battery or fuse, etc. Remember to remember to reset the EFI hardware: Turn on the key-Ignition- 10 seconds After the ignition is turned off - After 10 seconds Turn on the ignition switch and repeat 2 times.

●If the battery has reached the end of its useful life, it should be handed over to a qualified organization or a dedicated recycling center for proper disposal. Discard it at will.







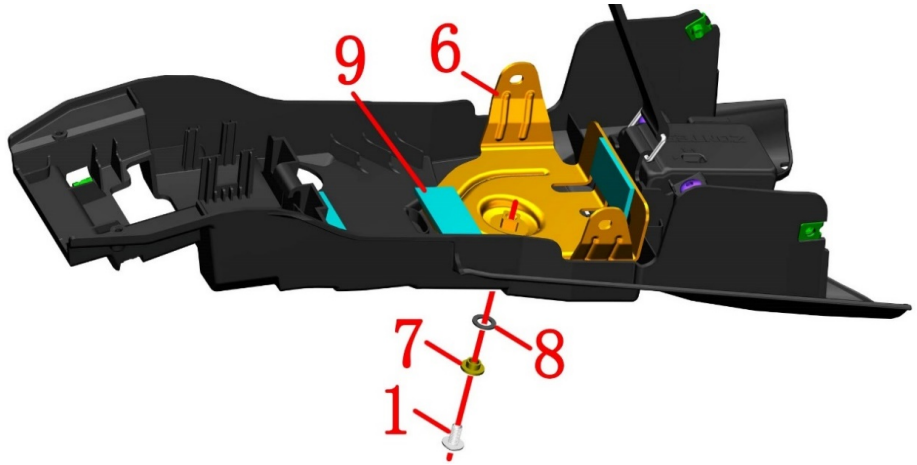


Fig. 12 REAR COVER COMPONENT		Electrical device box component 1 (colloid battery)	CHK ADH	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	5	
2	1250303-010093	GB6177.1M6 (environmental color zinc)	2	
3	1251513-001019	6.3 x 12 x 1.6 copper gasket	1	
4	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
5	1224200-040000	ZT310 Electrical device box cover	1	
6	1274200-238000	ZT310-R battery holder (gel battery)	1	
7	1274100-057095	Flanging bushing φ6.2× φ8.5×3.5+ φ14×1.5	1	
8	1244100-052000	Buffer rubber of flanging bushing (φ8.5× φ14×1)	1	
9	1240300-007000	HJ125－6 Battery rubber gasket	2	

PROCEDURE:

●Electrical device box component

Fix the bolt (1) on the left side of the battery holder and remove the nut (2).

Remove the bolts(1) on the left side of the front of the electrical component box Remove the gasket (3).

Fix the bolt (1) on the right side of the battery holder and remove the nut (2).

Remove the bolts(1) on the right side of the front of the electrical component box.

Remove the bolts (4) on the bottom of the rear frame of the frame.

Push the card in the direction of the arrow to snap the lower cover(5).

Find and remove the connector ③ of the PKE antenna.

Hold the electric device box component in one hand and grasp the front part downwards with one hand.

Unplug the PKE cable connectors① and ② and remove the electrical device box component.

●Battery holder

Remove bolt(1) then remove bushing(7) and the cushion rubber(8). Remove battery holder (6).

Remove the battery pad (9) and clean the remaining adhesive.

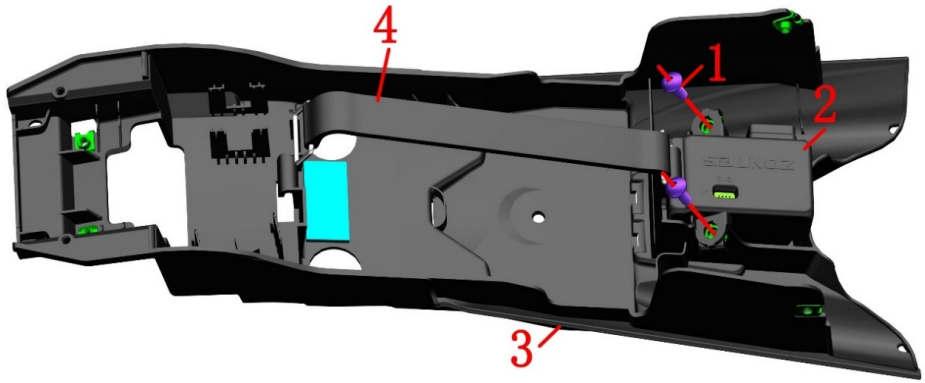
CAUTION:

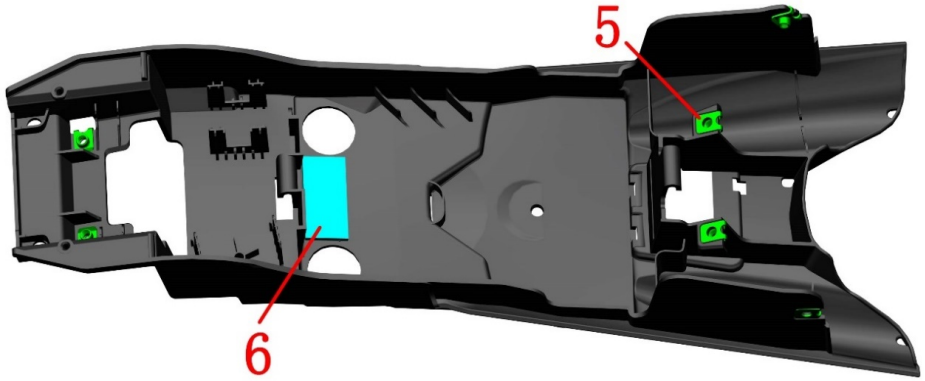
●Do not pull the cable directly when unplugging it.

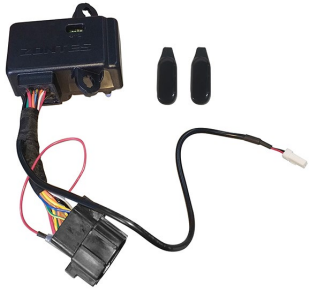
●If you need to replace the PKE fuse, you can replace it by directly removing the lower cover of the electrical device box.

●For PKE antenna disassembling, see "Fuel Tank Cover component 2" and "End cover Interior Trim component" above.

●When refitting connector ②, check whether the metal contacts inside are bent. If necessary, straighten them first.







ZT310 PKE Controller（bracelet edition）

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Fig. 13 REAR COVER COMPONENT		Electrical device box component 2 (colloid battery)	CHK ADH	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
2	1184200-137000	ZT310 PKE Controller（bracelet edition)	1	
3	1224200-161000	ZT310-R Electrical Device Box (colloid battery)	1	
4	1244200-111000	ZT310 gel battery strap	1	
5	1251300-063093	Plywood M6×11×15 (environmental color)	6	
6	1240300-007000	HJ125-6 Battery Pad	1	
7	1184200-128000	ZT310 Universal Fuse（15A small）	2	bracelet edition after-sale
8	1244200-100000	ZT310 Induction key glue ring	1	

PROCEDURE:

●PKE controller

Remove the bolt (1) and remove the PKE controller (2).

Remove the battery strap (4).

●Electrical device box component

Remove 6 pieces of plywood nuts(5) from the electrical component box(3).

Remove the battery pad(6) and clean the remaining adhesive.

●Fuses

Unplug the fuse(7) and check if it is blown. If it has blown, replace the fuse of the same specification.

The bracelet edition PKE controller used 2pcs small fuses.

CAUTION:

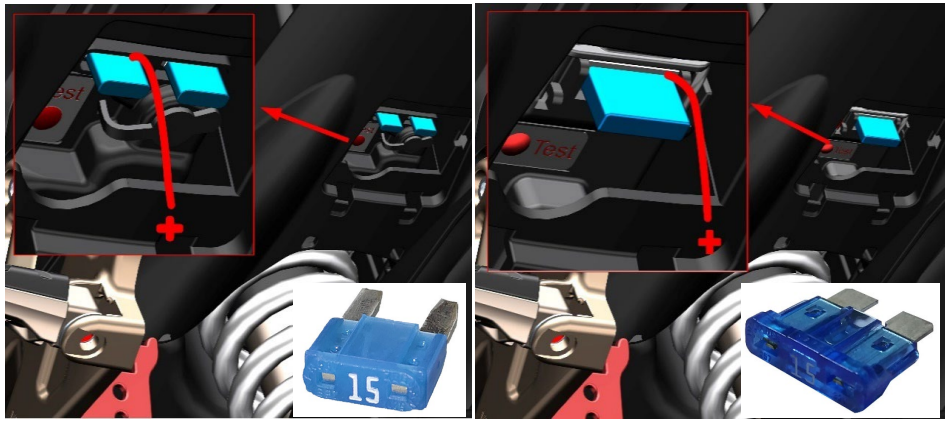
●When inserting or removing the fuse, pay attention to the vertical alignment and then disassemble it. Do not bend it. Use a qualified fuse.

●PKE cables need to be protected. Non-professionals are strictly prohibited from dismantling the PKE system components, as this may cause permanent damage.

●Please refer to the driving manual for details on the use of PKE.

● The button battery model used for the bracelet version is: CR1225.

Fig.14 REAR COVER COMPONENT	External battery start PKE system	CHK ADJ	



PROCEDURE:

●Emergency handling method after the battery is destroyed or the battery is exhausted for too long:

Find a 15A fuse and wind a wire around any one of the fuses as shown in the left side.

Remove the lower cover of the electrical device box; insert the previously made wire into the right side of the PKE fuse slot.

Find a battery with sufficient power and connect the previously made wire to the positive side of the battery.

Find one end of the wire attached to the frame (the bolt is directly connected to the frame) and the other end to the negative pole of the battery.

After connecting the wires, check that the wires are fixed and short press the unlock button " " to turn on the PKE system.Disable pressing the ignition button at this time.

CAUTION:

●The wire must be connected to the right slot in the forward direction of the finished motorcycle.

●When connecting the battery, always connect the positive electrode first and then connect the negative electrode. When disassembling, disassemble the negative electrode and then remove the positive electrode. Be sure to pay attention to the order of discomponent.

●The negative pole must be connected with the frame and can be connected to the bolt head directly connected to the frame.

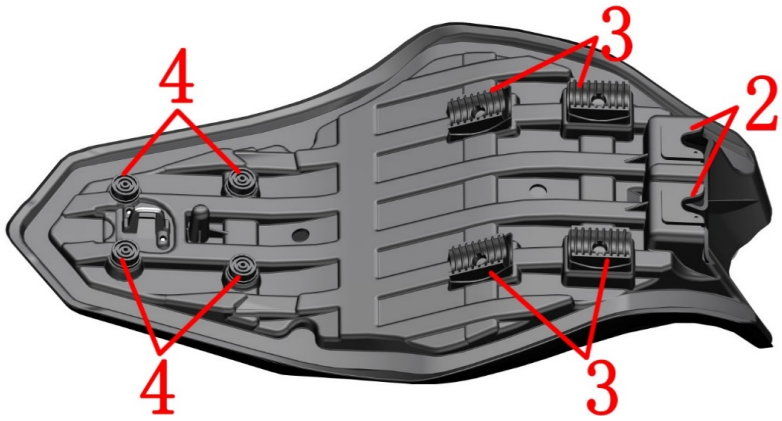


FIG.1 CUSHION COMPONENT		Cushion component	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1204200-003000	ZT310-X Seat cushion	1	
	1200100-463000	ZT310-X Seat cushion (2021)		
2	1244100-024000	ZT250-S Cushion front rubber	2	after-sales
3	1244100-022000	ZT250-S Cushion rubber	4	
4	1244100-025000	ZT250-S Cushion round rubber	4	

PROCEDURE:

●Remove seat cushion

Press the unlock button " " shortly.After the power-on self test is completed, press the "SEAT" button briefly to open the electronic cushion lock.

Grasp the seat cushion(1) and pull it diagonally upwards. At the same time, remove the cushion by moving the rear part of the cushion from side to side.

●Assembly cushion

When assembling the cushion, check whether all the cushion rubbers are complete. Insert the front part of the cushion first. After the assembly is in place, shoot the rear part of the cushion firmly. When you hear the "click" sound, it indicates that the cushion lock has been assembled.

●Cushion rubber purchased separately

If the cushion rubber aging can be purchased on the Zontes official website.

The corresponding installation position is shown in the lower left figure.

CAUTION:

●The motorcycle should be fixed before operation.

●Cushion can cause accidents if it is not installed properly.

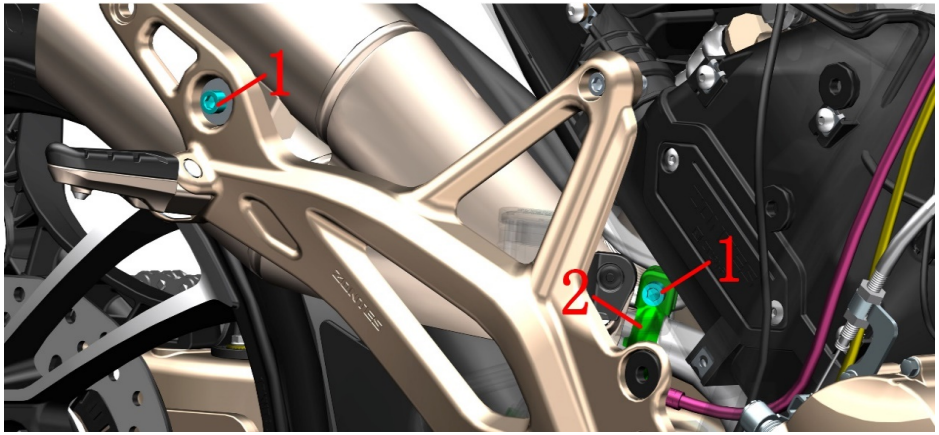
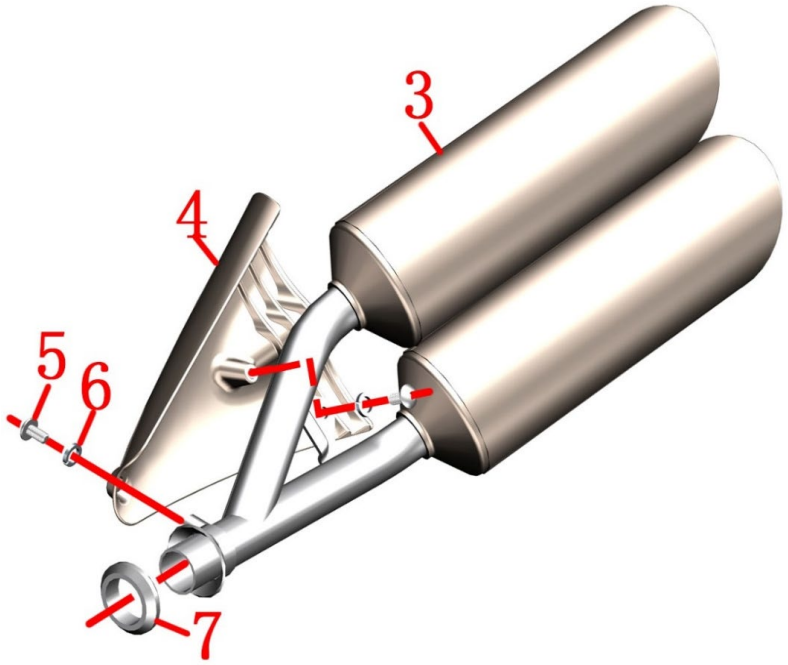


FIG.1 MUFFLER COMPONENT		Muffler rear assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1250205-023000	GB70.1 Hexagon M8×35 (environmental color zinc)	2	
2	1274100-074000	ZT310-R Muffler clamp	1	
3	4024200-003035	ZT310-R Titanium rear muffler	1	
	4084200-001051	ZT310-R Dark gray rear muffler		
4	4024200-004035	ZT310-R Titanium anti-hot plate	1	
	4084200-002051	ZT310-R Dark gray anti-hot plate		
5	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
6	1250501-010000	GB93φ6 Spring washer	2	
7	1124100-012000	ZT310-R Muffler graphite seal gasket (37.8×25×10)	1	



PROCEDURE:

●Remove the muffler rear assembly

Hold the muffler rear assembly in one hand, and use the hexagon tool to remove the bolt(1) from the space between the frame tube and the pedal bracket. Remove the clamp (2).

Remove the bolt(1) at the pedal bracket and remove the muffler rear assembly.

Remove the bolt(5) and remove the spring washer(6).

Remove the anti-hot plate(4) from the muffler rear part(3).

●Graphite gasket

Remove the graphite gasket(7) and protect the nozzle. If there is any deformation, it may cause air leakage.

CAUTION:

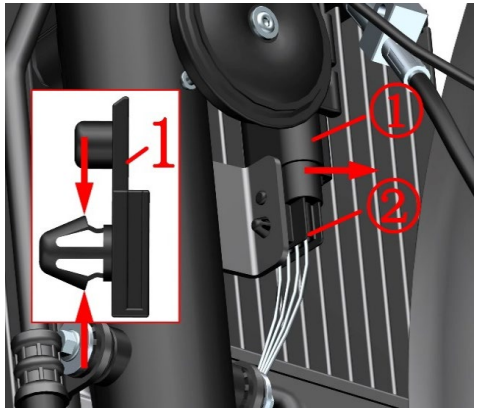
●The material should be protected during disassembly to prevent damage to the paint.

●The muffler should be completely cooled before it is disassembled.

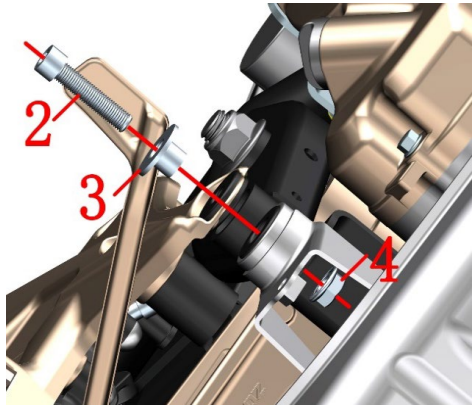
●Prevent foreign matter from entering the interior of the muffler.

●The muffler nozzle needs to be protected. If there is any deformation, it may cause air leakage.

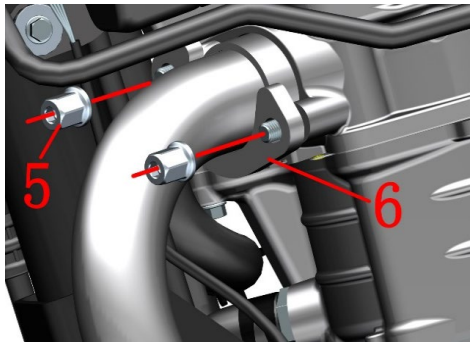
●It is recommended that new seals be replaced each time the muffler front assembly is removed to prevent air leakage.



A



B



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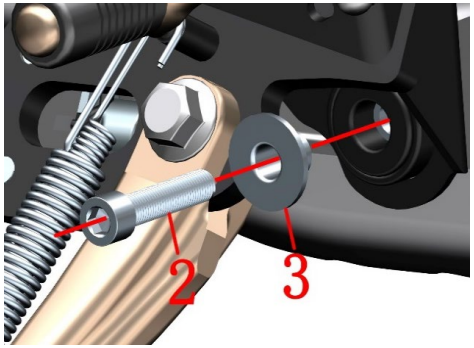
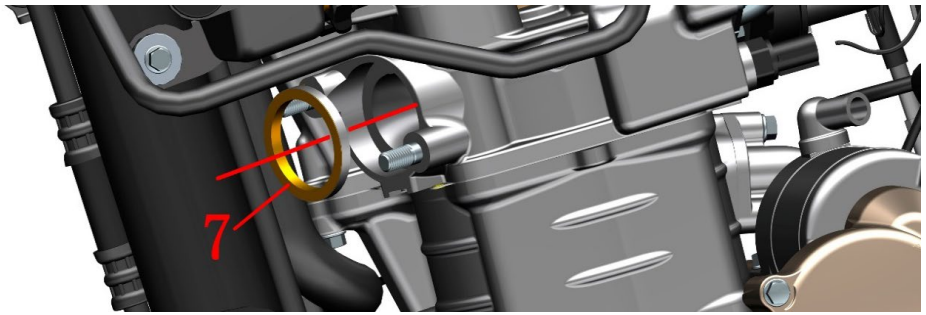


D



E

FIG.2MUFFLER COMPONENT		Muffler front assembly 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1224100-013000	ZT250-S Oxygen sensor fixing buckle	1	
2	1250205-023000	GB70.1 Hexagon M8×35 (environmental color zinc)	2	
3	1274100-068095	ZT310 Muffler flange bushing	4	
4	1250303-011093	GB6177.1 M8 (environmental color)	1	
5	1251300-058093	Hexagon nut M8 (environmental color zinc)	2	
6	1020241-094000	ZT250-S Muffler flange	1	
7	1070100-133000	ZT250-S Engine exhaust seal gesket	1	

PROCEDURE:

●Oxygen sensor fixing buckle

Pull the cable clip(1) out of the radiator bracket with the pliers after slightly clamping it to the outside top (as shown in Figure A). Separate the oxygen sensor connector from the main harness.

●Muffler assembly

Lower the side bracket to fix the motorcycle.

Under the right nameplate of the motorcycle, after fixing the nut(4) with a boxer wrench, remove the bolt(2) and remove the bushing(3), as shown in Figure B.

Remove the nut(5) and remove the muffler flange(6) as shown in Figure C.

Hold the muffler front assembly with one hand, remove the bolt(2) from under the side bracket mounting plate with one hand, and remove the bushing(3) as shown in Figure D.

After removing the muffler front assembly, remove the gasket(7) as shown in Figure E.

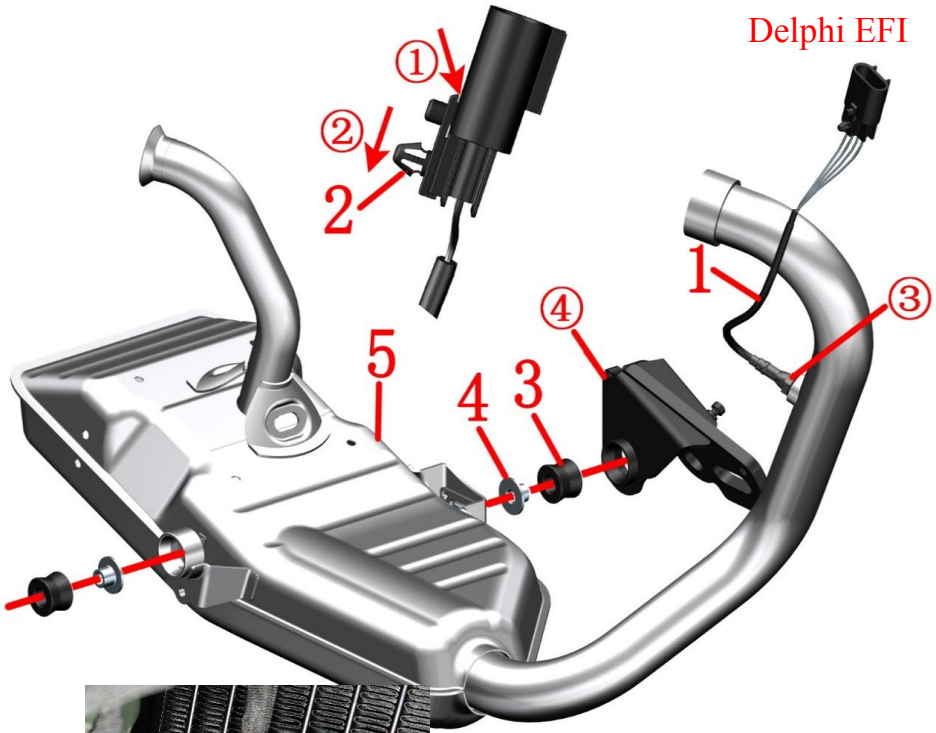
CAUTION:

●The lower shroud assembly needs to be removed in advance. For the removal procedure, see "Lower shroud assembly".

●The muffler should be completely cooled before it is disassembled.

●Prevent foreign matter from entering the muffler or engine interior.

●It is recommended that new seals should be replaced each time the muffler front assembly is removed to prevent air leakage.



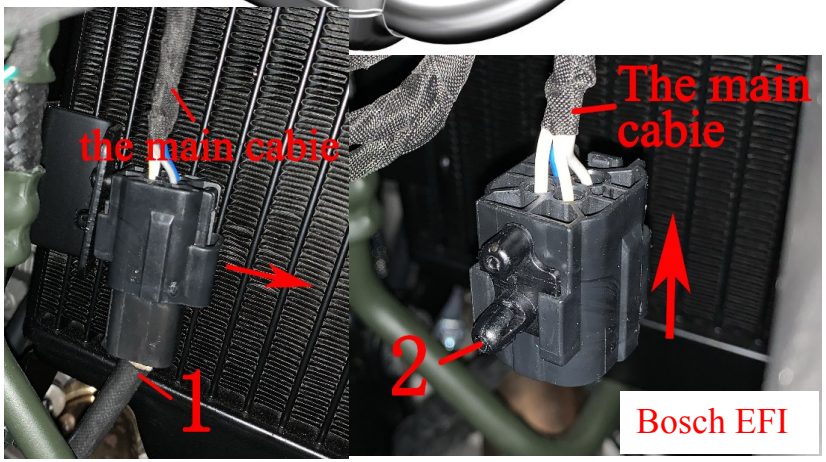


FIG.3 MUFFLER COMPONENT		Muffler front assembly 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1050953-008000	OSM planar oxygen sensor 25322728	1	Delphi EFI
	1050954-026000	LSF oxygen sensor		Bosch EFI
2	1224100-013000	ZT250-S Oxygen sensor fixing buckle	1	Delphi EFI
	1224200-008000	ZT310-R line card nail		Bosch EFI
3	1244100-064000	ZT310 Muffler cushion rubber	2	
4	1274100-068095	ZT310 Muffler Flange Bushing	2	
5	1124200-002000	ZT310-R Front muffler (homemade/Euro IV)	1	Delphi EFI
	1124200-017000	ZT310-R Front muffler (homemade/ bosch)		Bosch EFI

PROCEDURE:

●oxygen sensor

Delphi EFI :Insert the screwdriver with a small slotted screwdriver① to open the fastener, and press it in the direction indicated by arrow② to push it out from the oxygen sensor connector. Remove the oxygen sensor(1) with an open wrench.

Bosch EFI: Remove the plug connected to the oxygen sensor (1) on the main cable in the direction of the arrow, and unplug the oxygen sensor (1). Note: The line card nail of Bosch EFI is placed on the connector at one end of the main cable.

●Buffer assembly

Remove the bushing(3) and cushion rubber(2) from the frame④.

Remove the bushing(3) and cushion rubber(2) from the muffler front part(5).

CAUTION:

●The muffler should be completely cooled before it is disassembled.

●Prevent foreign matter from entering the interior of the muffler.