ZONTES

ZT310-R (EURO IV)

Service manual

2021/08/28

Contents

Table of Contents Page

Contents

Contents

Contents

Contents

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.

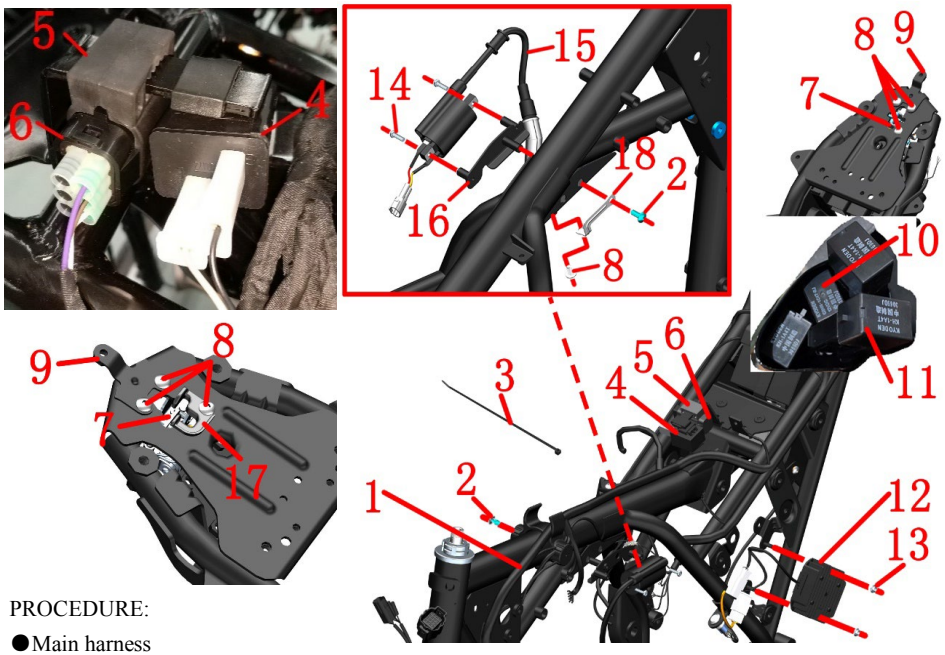


Fig.1 FRAME&ELECTRONIC PARTS COMPONENT		Electronic parts COMPONENT-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1184200-080007	ZT310－R1 Wire Harness component	1	TFT Instrument
	1184100-104000	ZT310－R Wire Harness component		
	1184200-167000	ZT310－R1 Wire Harness component (Bosch)		Bosch EFI
2	1251100-102000	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	1251100-102000	Non-standard bolt M6×12（304 stainless steel）	4	
9	1274200-017000	ZT310－R rear light holder	1	
10	1184200-024000	ZT310－R side stand relay	1	G8HN-1C4T-RJ
11	1184100-017000	ZT250－S Electronic fuel injection relay	2	KH-1A4T
12	1184200-033000	ZT310-R rectifier (for lithium battery)	1	Delphi EFI
	1184200-133000	ZT310 rectifier (230W)		
	1184200-174000	ZT310 rectifier (five wire)		Bosch EFI
13	1250303-010093	GB6177.1 M6	2	
14	1250201-032093	GB818M5×16 bolt	2	
15		ZT310 EFI ignition coil	1	
16	1274100-085000	ZT250－R Ignition coil installing holder	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)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(10)and electric injection relay(11)directly.

●Ignition coil &support

Remove the crosshead bolts(14) with a cross screwdriver and remove the ignition coil(15) . Remove the bolt (2) and remove the ignition coil support(16).

●Rectifier

Remove the nuts(13) and remove the rectifier(12).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)".

●Rear light holder、seat lock

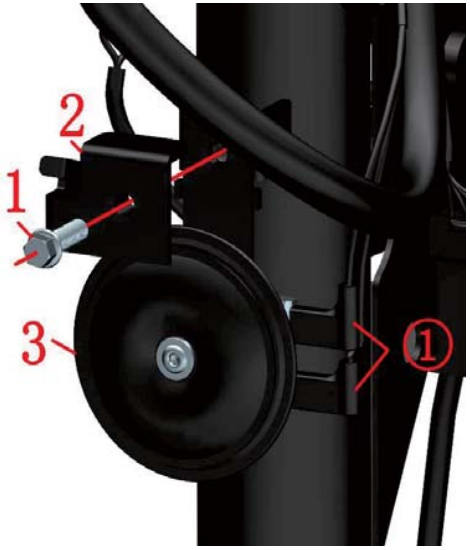
Find and take off the plug of the seat lock , and cut off binding(3). Remove bolts (8),then remove the rear light holder(9) seat lock guide block(17) and seat lock(7)

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).



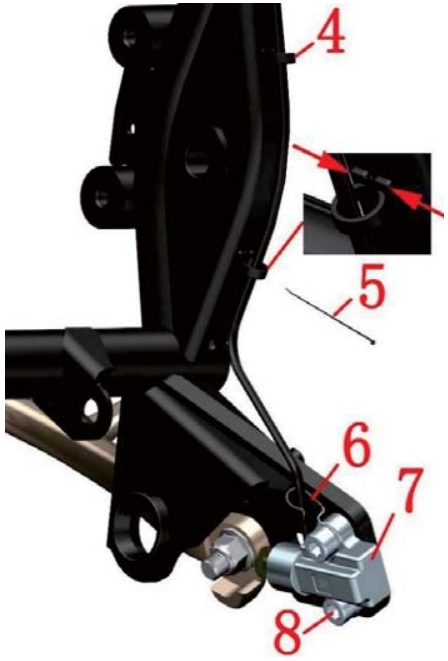


Fig.2 FRAME&ELECTRONIC PARTS COMPONENT		Electronic parts COMPONENT-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Screw bolt	1	
2	1274200-033000	ZT310－R No.2 holder of front disc oil pipe	1	
3	1184200-004000	ZT310 Horn	1	
4	1274100-017000	ZT250－S Cable clip	2	
5	1224100-037000	frane 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 blot	2	

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

CAUTION：

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

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

●Can't overcharge the charging time. Please refer to the manual for details about tthe battery.

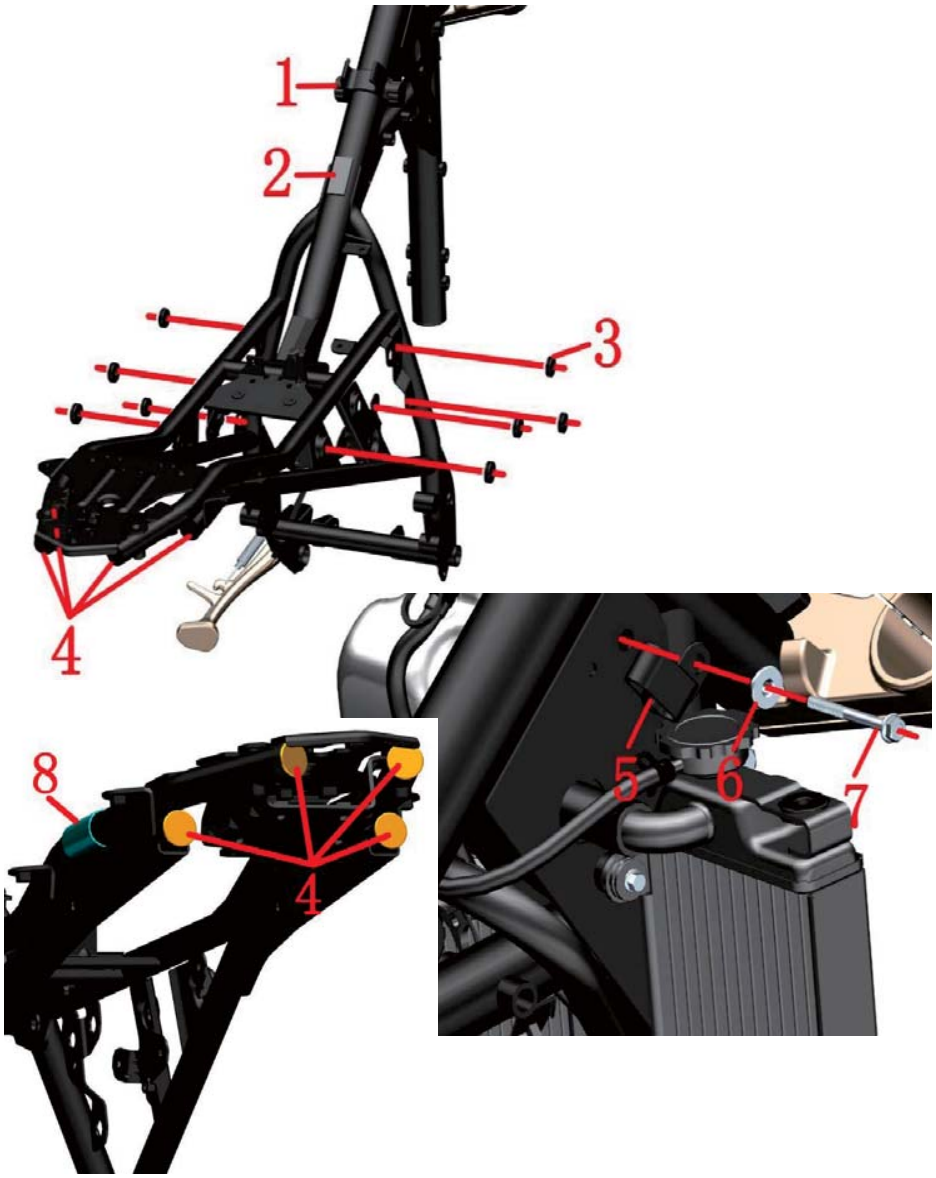


Fig.3 FRAME&ELECTRONIC PARTS COMPONENT		Frame plastic parts	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-019000	ZT250－S Inner fuel tank fix glue cushion	1	
2	1240300-007000	HJ125－6 battery cushion	1	
3	1244100-002000	ZT250－S side cover cushion	10	
4	1244100-061000	ZT250 Frame water proof rubber 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.

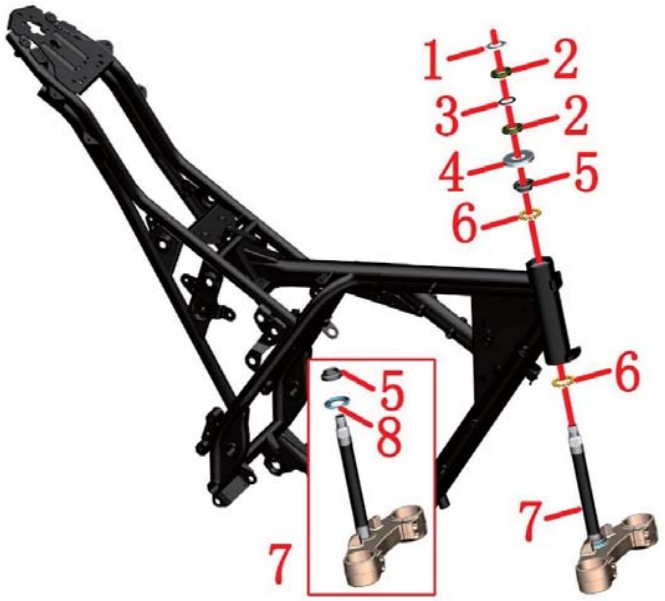


Fig.4 FRAME&ELECTRONIC PARTS COMPONENT		Steering rack component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1134100-007000	ZT250－S Rating nut lock washer	1	
2	1251300-046093	ZT250－S Steering column rating nut (color zinc)	2	
3	1244100-015000	ZT250－S Rating nut glue cushion	1	
4	1224100-005000	ZT250－S 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).

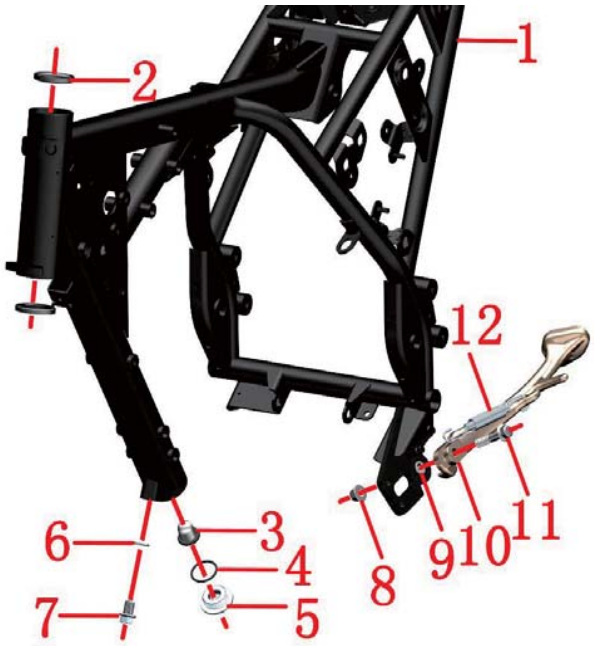


Fig.5 FRAME&ELECTRONIC PARTS COMPONENT		Frame, Side support, the operation of releasing engine oil	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4014200-012000	ZT310－R frame after-sales component	1	【1】
2	1130900-026000	ZT250－S Fix loop	2	
3	1274100-006000	ZT250－S Frame engine oil filter screen	1	
4	1051453-003000	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	

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(9), paint the lubricating grease on the bush(9) when re-assembling ,then put it into the frame(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.

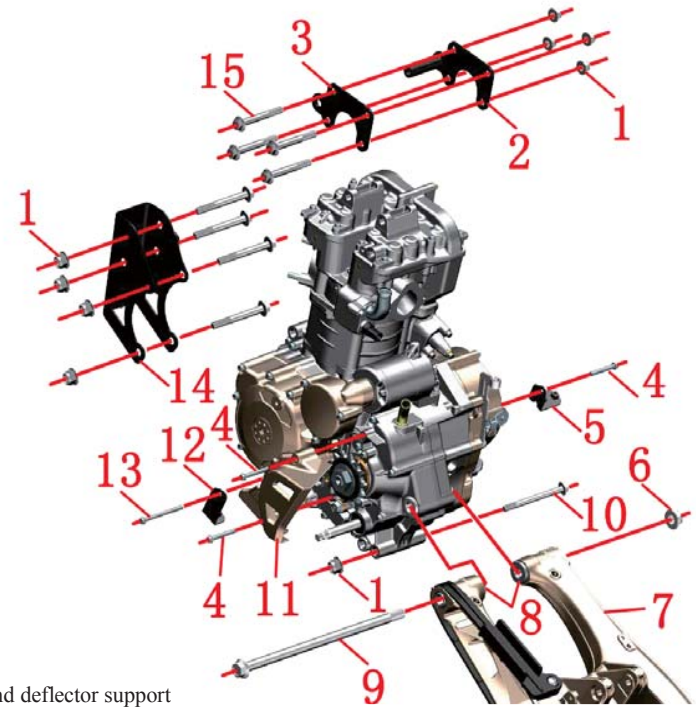


Fig.1 FRAME&ENGINE		FRAME&ENGINE	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-057093	Non-standard nut M10×1.5（dacromet）	9	
2	1020242-186000	ZT310－R Right upper hanging piece	1	
3	1020242-185000	ZT310－R Left upper hanging piece	1	
4	1251112-003093	M6×45 Hexagonal flange face 9.8 level bolt.（color zinc）	3	
5	1274200-016000	ZT310－R Right support of down wind deflector	1	
6	1251300-059093	125 rear fork screw M14×1.5	1	110±5N.m
7	4024100-024000	ZT250 Aluminum alloy rear forklift ASSY（with axletree/ oil seal）	1	
	4074200-005051	ZT250 dark gray aluminum alloy rear flat fork ASSY（with axletree/ oil seal）		
8	1274100-009000	rear forklift sleeve	2	
9	1252200-016093	250 Rear forklift axle 14×310（dacromet）	1	
10	1251100-086093	Non-standard bolts M10×1.5×112（dacromet）	1	
11	4044201-022051	ZT310－R rear left engine cover	1	
12	1274200-015000	ZT310－R Left Wind deflector support	1	
	4050854-002051	ZT310－R Left Wind deflector support (dark gray)		
13	1251112-005093	M6×75 screw	1	
14	4024200-005000	ZT310－R Bracket	1	
15	1251100-132003	Non-standard bolts M10×1.5×80（dacromet）	8	

PROCEDURE:

●Chain wheel cover&Wind deflector support

Remove the bolts (4) with the sleeve then remove the Chain wheel cover(11)。Remove the bolts (4)and (13) with the sleeve then remove the left holder (12)and right holder(5)of the wind deflector.The bolts(13)and(4) reload to the engine to prevent seepage.

●Connect with mid-engine and frame and rear fork

Use the sleeve to cover the head of the bolt (9) then dismantle the nut(6) with the sleeve.Other parts can't Remove.

●Hanging piece

Use the sleeve to cover the head of the bolt(5) and remove the nut (1) with the sleeve. Can not remove the bolt and the hanging piece (2) and (3).

●Bracket engine hanging

Use the sleeve to cover the head of the bolt (15) then dismantle the nut(1) with the sleeve. Remove the bolt then dismantle the bracket (14). Remove the bolt(10) and the nut(1).

Both persons hold the left and right boxes of the engine. One person takes the bolt (15) and hanging piece (2) and (3) off. Remove the rear flat fork ASSY(7). Support the engine to shift to one side, and pay attention to safety during the movement. Put the engine flat on the ground.Then remove the rear forklift sleeve(8) from the rear flat fork ASSY(7).

CAUTION:

●It is necessary to remove the seat cushion, fuel tank, side cover, pedal support, wind deflector, shift lever, muffler, radiator and pipe, cable, air filter joint, chain, engine negative pole, etc.

●Use appropriate tools to support the motorcycle to prevent motorcycle dumping during disassembly. Single operation is forbidden.

●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.

●Please pay attention to safety to prevent accident.

●It must be operated the engine with more than one people at the same time when removing the engine.

●All standard parts must meet the standard torque value when reassembling, and refill the engine oil according to the operation instruction.

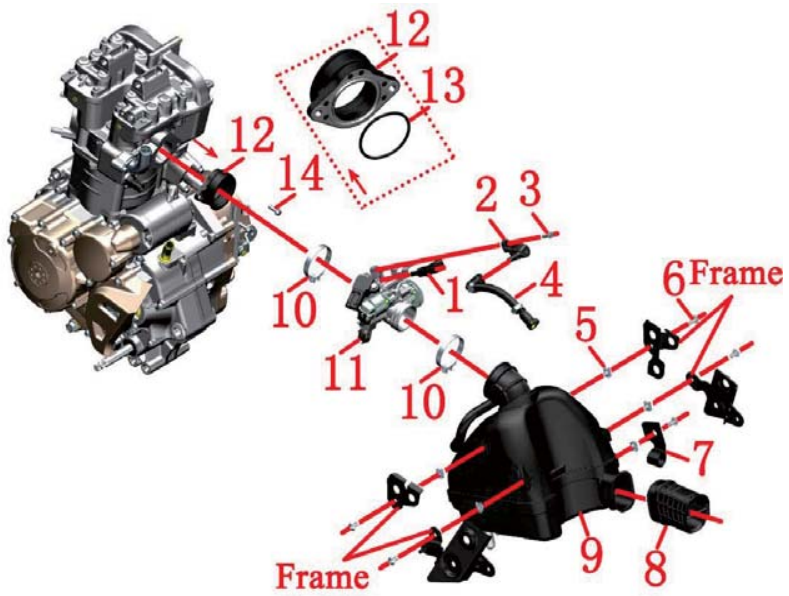


FIG.1 INTAKE SYSTEM COMPONENT		Intake system component (Delphi EFI)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1050954-007000	39－N008 Fuel injector	1	
2	1050954-008000	39－N008 Fuel injector fixator	1	
3	1251112-001093	M6×16 Hexagon flange bolt（color zinc）	1	
4	1050954-006000	ZT250-R Fuel injector 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	1274200-034000	ZT310－R Rear disc brake tubing clamp (steel)	1	
8	1244200-017000	ZT310－R Air filter large air inlet	1	
9	1224200-058000	ZT310－R Air filter second generation	1	
10	1051354-004000	Φ56×10 Hoop assembly	1	
11	1050954-005000	TB39 Throttle body part	1	
12	1050954-012000	TB39 Intake pipe assembly	1	
13	1051453-007000	45×2.1 Fluorine rubber O-ring	1	
14	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),Pull off the brake oil pipe from the oil pipe clamp(7) and remove it. Loosen the pipe clamp assembly(10) 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(9) and the plywood nut(5),finally pull out the air inlet(8).

●Throttle assembly

Use the plum blossom wrench to loosen the bolt(14),and remove the throttle assembly.Loosen the hoop between the intake pipe assembly (12) and throttle assembly(11), and then remove them separately.Remove the O-ring (13) 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.

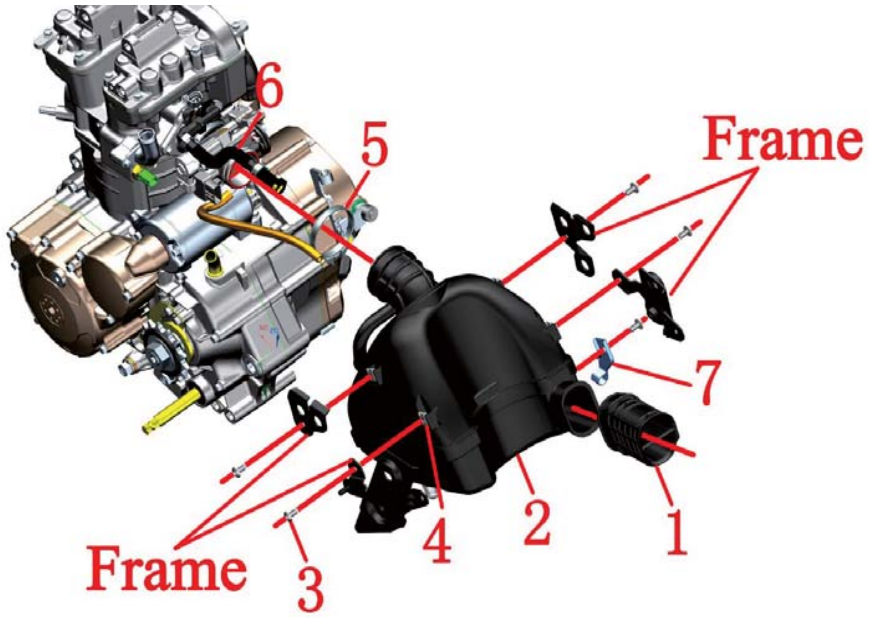


FIG.2 INTAKE SYSTEM COMPONENT		Intake system component (Bosch EFI)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244200-017000	ZT310－R Air filter large air inlet	1	
2	1224200-171000	ZT310-T1 Air Filter (Bosch)	1	
3	1251100-101000	Non-standard bolt M6×12（304stainless steel）	5	
4	1251300-063093	Plywood 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	
7	1274200-034000	ZT310－R Rear disc brake tubing clamp (steel)	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

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CAUTION:

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

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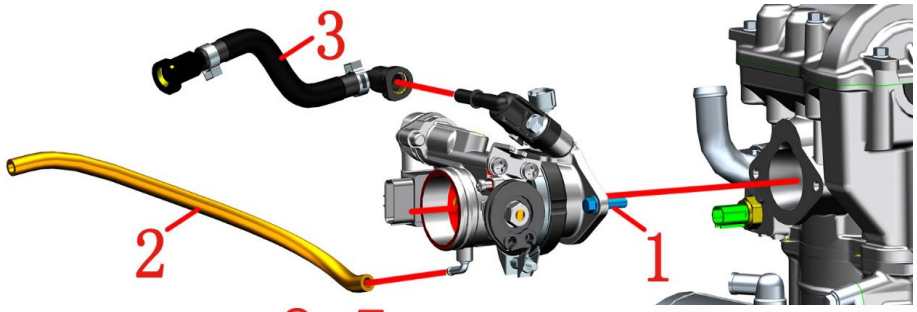

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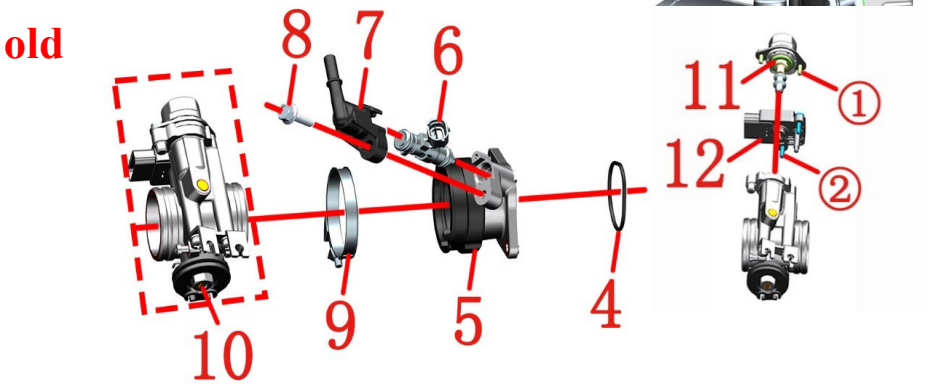
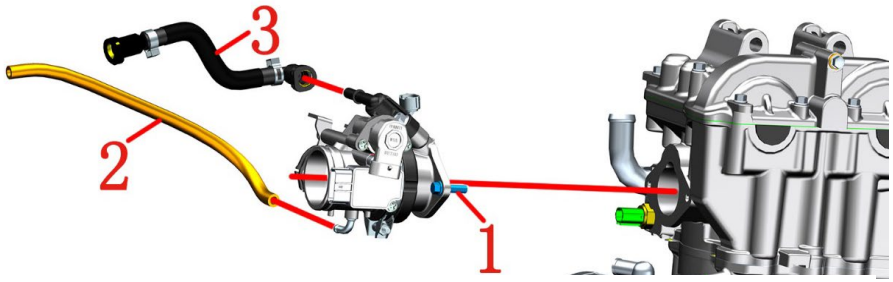
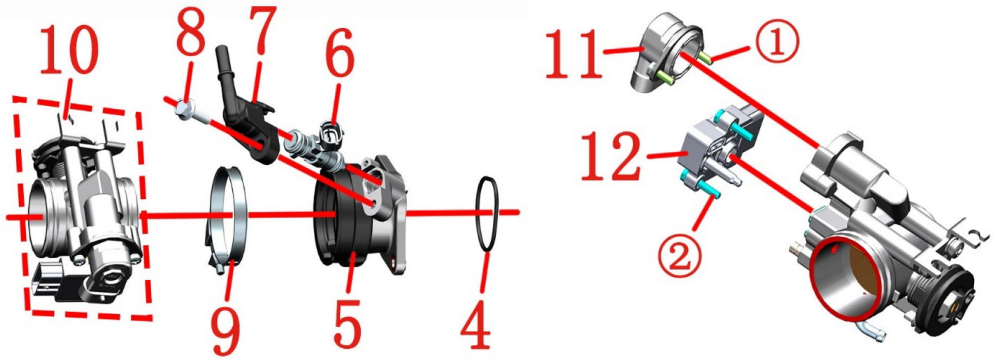


FIG.3 INTAKE SYSTEM COMPONENT		Intake system component (Bosch EFI)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Hexagon flange bolt（color zinc）	2	
2	1244200-117000	ZT40 Throttle valve desorption rubber tubing	1	
3	1050954-035000	ZT310-R Fuel injector high pressure oil pipe unit	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).

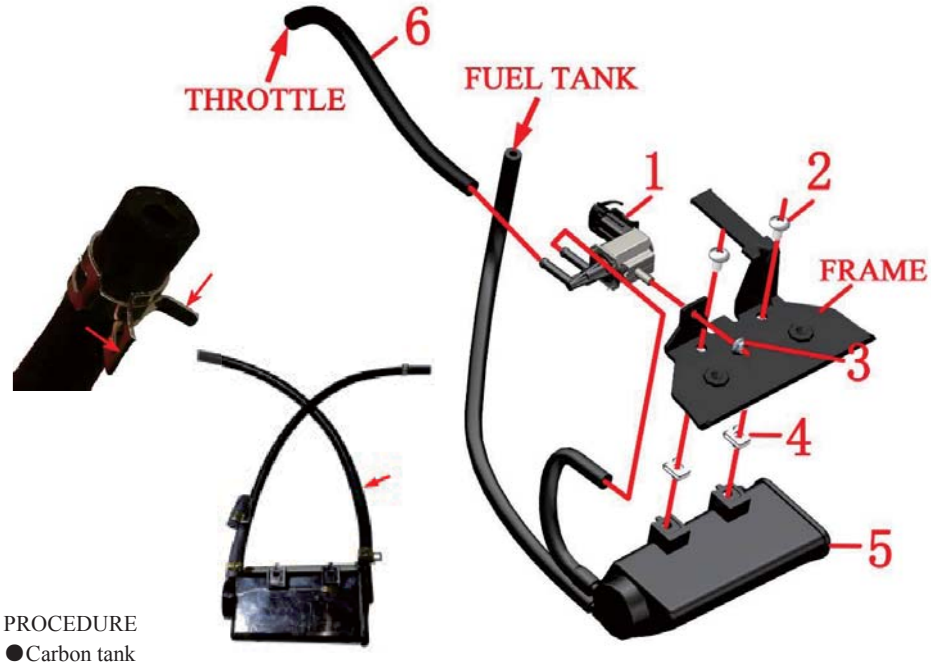


Fig.4 INDUCTION SYSTEM COMPONENT		Induction system component	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1050954-009000	YH Carbon tank electromagnetic valve	1	
2	1251100-101000	Non-standard bolts M6×12（304 stainless steel）	2	
3	1250303-010093	GB6177.1M6（color zinc）	1	
4	1251300-063093	Plywoord M6×11×15（color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

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.

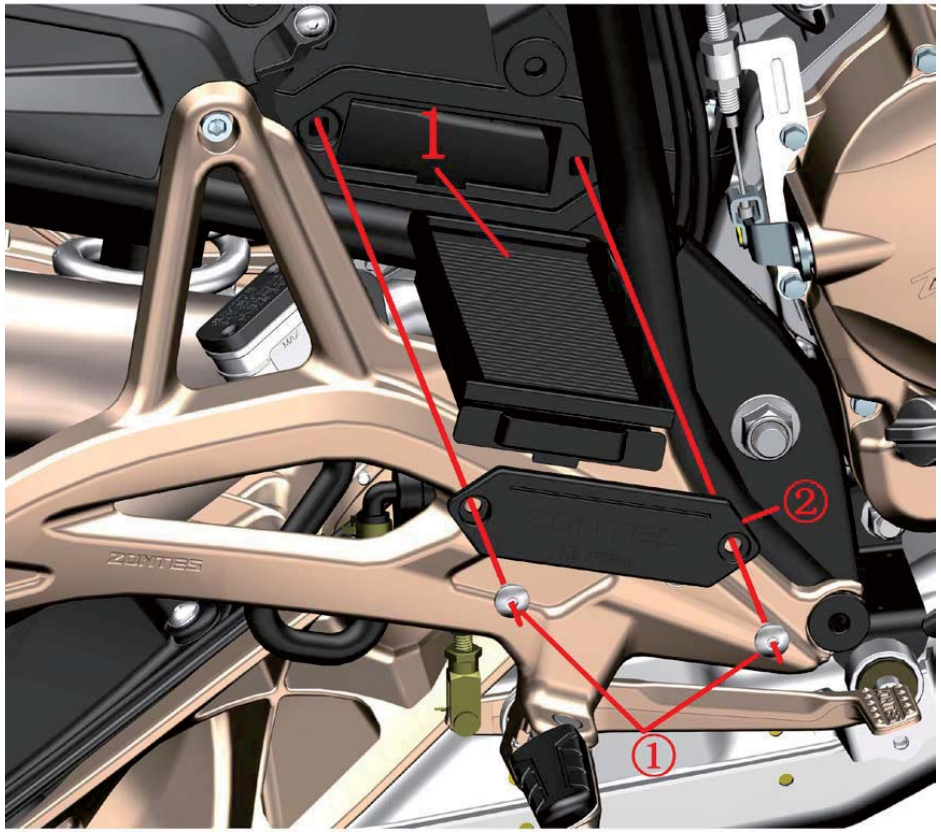
CAUTION:

●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.

●The fuel pipe used for prevent fuel dropping onto the muffler surface.



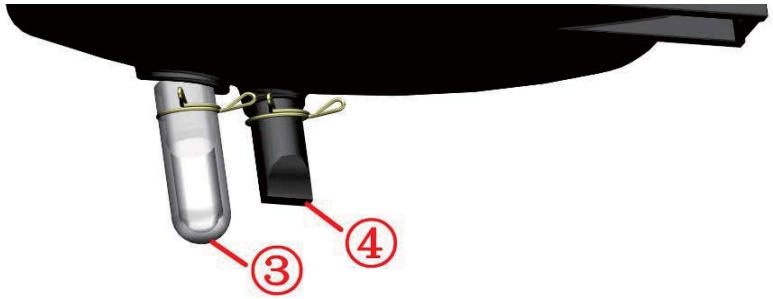


Fig.5 INDUCTION SYSTEM COMPONENT		Induction system component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4134200-002000	ZT310 Air filter sponge filter element（carton packaging）	1	

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.

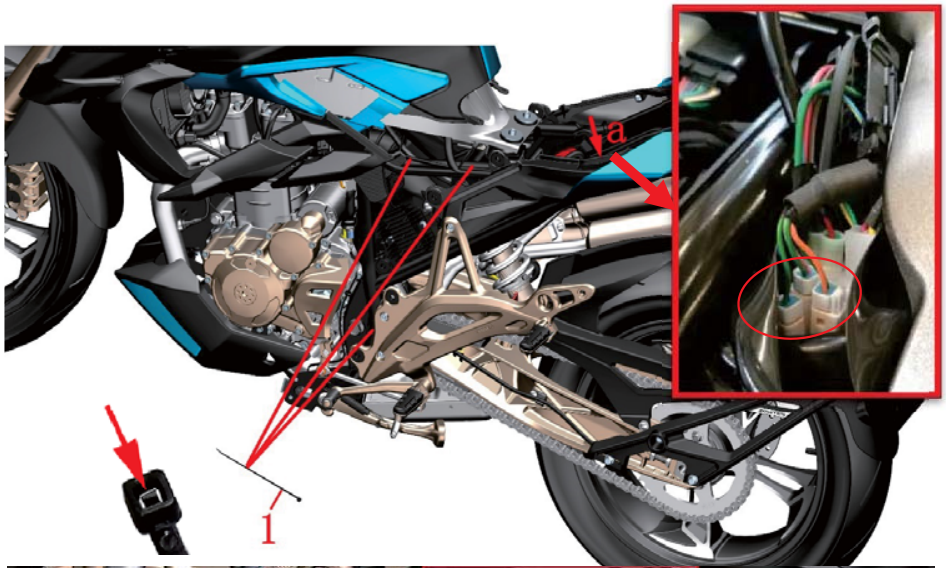
● Oil pipe and water pipe

Avoid water into the air filter when washing the motorcycle. Can pulled out the oil pipe③ and water pipe④ to 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.



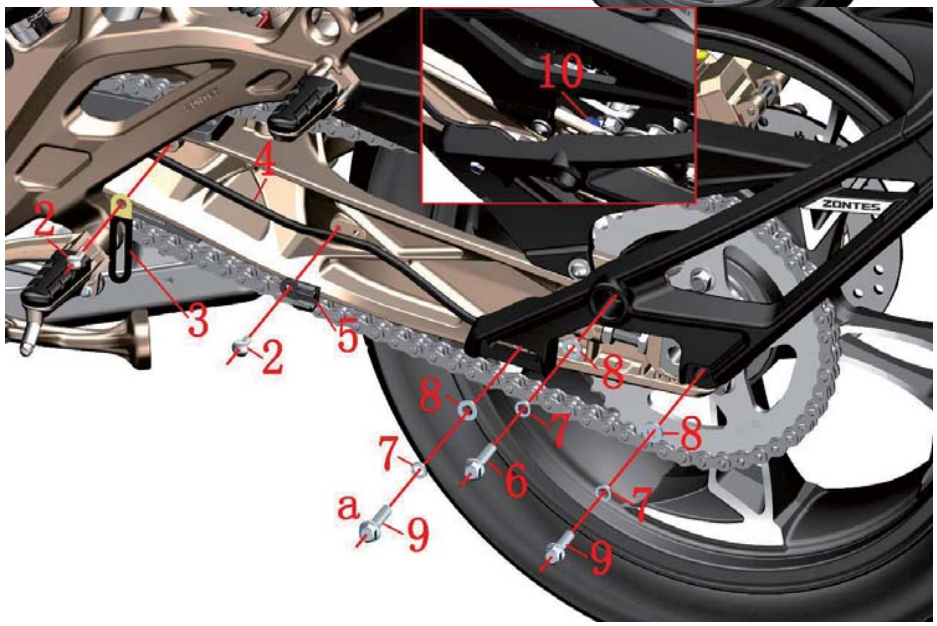


Fig.1 REAR WHELL COMPONENT		Rear sub-mud assembly 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	3	
2	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
3	1270300-273000	Φ8 line clamp (L=73)	1	
4	1184200-030000	ZT310-R sub-mud board adapter cable (L=2000)	1	
5	1224200-003000	ZT310-Z rear disc brake pipe clamp	1	
6	1250105-143093	GB5789M8×35 (environmental color)	1	
7	1250501-007093	GB93φ8 (environmental color)	3	
8	1250503-021093	GB97.1φ8 (environmental color)	3	
9	1250105-149093	GB5789M8×30 (environmental color)	2	
10	1250303-011093	GB6177.1M8 (environmental color)	1	

PROCEDURE:

●Rear auxiliary mud board assembly

Locate the 3 plugs shown in the plug-in plug a.

Cut or use a tool to pick up the strap(1) head stop.

Straighten the clamp(3); remove the bolt(2), and remove the clamp(3) and the disc brake tubing clamp(5).

After fixing the nut (10) with a wrench, remove the bolt(6) at the arrow indication with a sleeve, and remove the spring washer(7) and the flat washer(8) and the nut(10).

After holding the rear sub-slab assembly, remove the bolts(6) and(9) with a sleeve and remove the spring washer(7) and the flat washer(8), respectively.

Remove the sub-mud switch cable(4) and the rear sub-mud assembly.

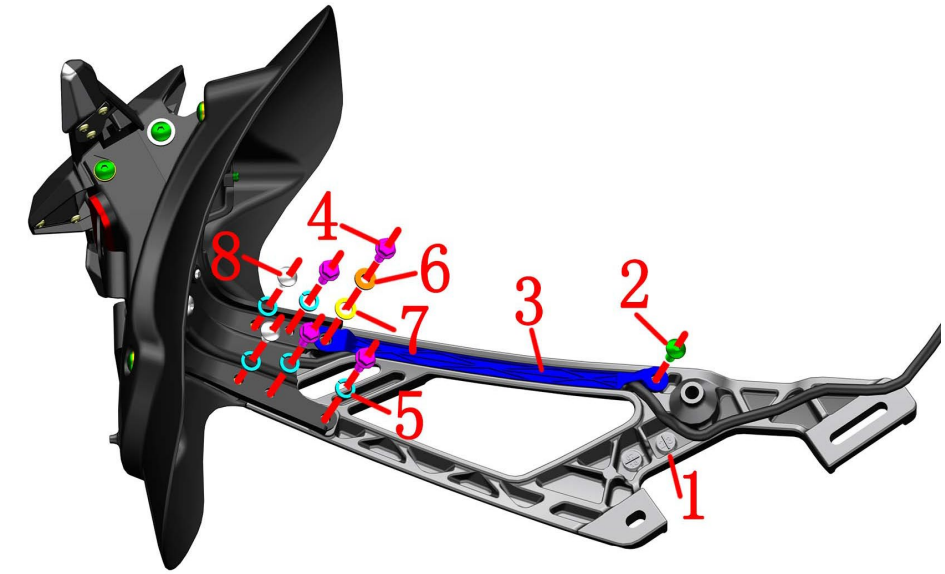
CAUTION:

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

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

●When reassembling, make sure that the torque of the three M8 bolts reaches 35N.m, and you need to apply the thread fastening glue first. Before tightening the bolts, check that there is any pressure on the wires to prevent short circuits when tightening the bolts.

● From 12 November 2019 "a" bolt length changed from 35 to 30.



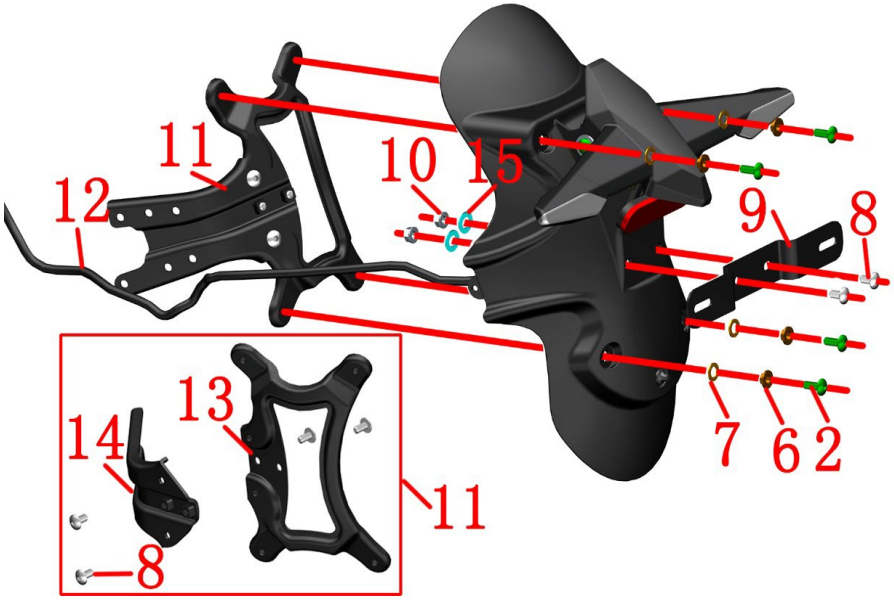


Fig.2 REAR WHELL COMPONENT		Rear sub-mud assembly 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1020242-263021	Rear auxiliary mud plate aluminum alloy bracket	1	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	5	
3	1224200-090000	Rear auxiliary mud board retaining plate	1	
4	1250105-137093	GB5789M6×16 (environmental color)	4	
5	1250501-007093	GB93φ8 (environmental color)	5	
6	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	5	
7	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	5	
8	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	8	
9	1270300-039000	HJ125-6 rear license plate bracket	1	
10	1250303-010093	GB6177.1M6 (environmental color)	2	
11	4024200-102000	ZT310-R rear sub-plate iron bracket (Improvement)	1	
12	1184200-030000	ZT310-R sub-mud board adapter cable (L=2000)	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 (4), remove the flange bushing (6) the rubber pad(7), and finally remove the retaining plate(3).

●Aluminum alloy bracket

Remove the 2 pcs of bolt(8) and 3 pcs of (4)， then remove 5 pcs of spring washer(5).

●Back license plate bracket assembly

Remove the bolt(8) and nut(10) 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(6) and rubber pad(7).

Remove the rear sub-mud iron bracket(11)and rear turn signal assembly.

The old one-piece iron bracket has been discontinued, and the integrated iron bracket assembly (11) needs to be replaced. The assembly already contains the front section (14), the rear section (13) and 4 bolts (8).

CAUTION:

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

●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.

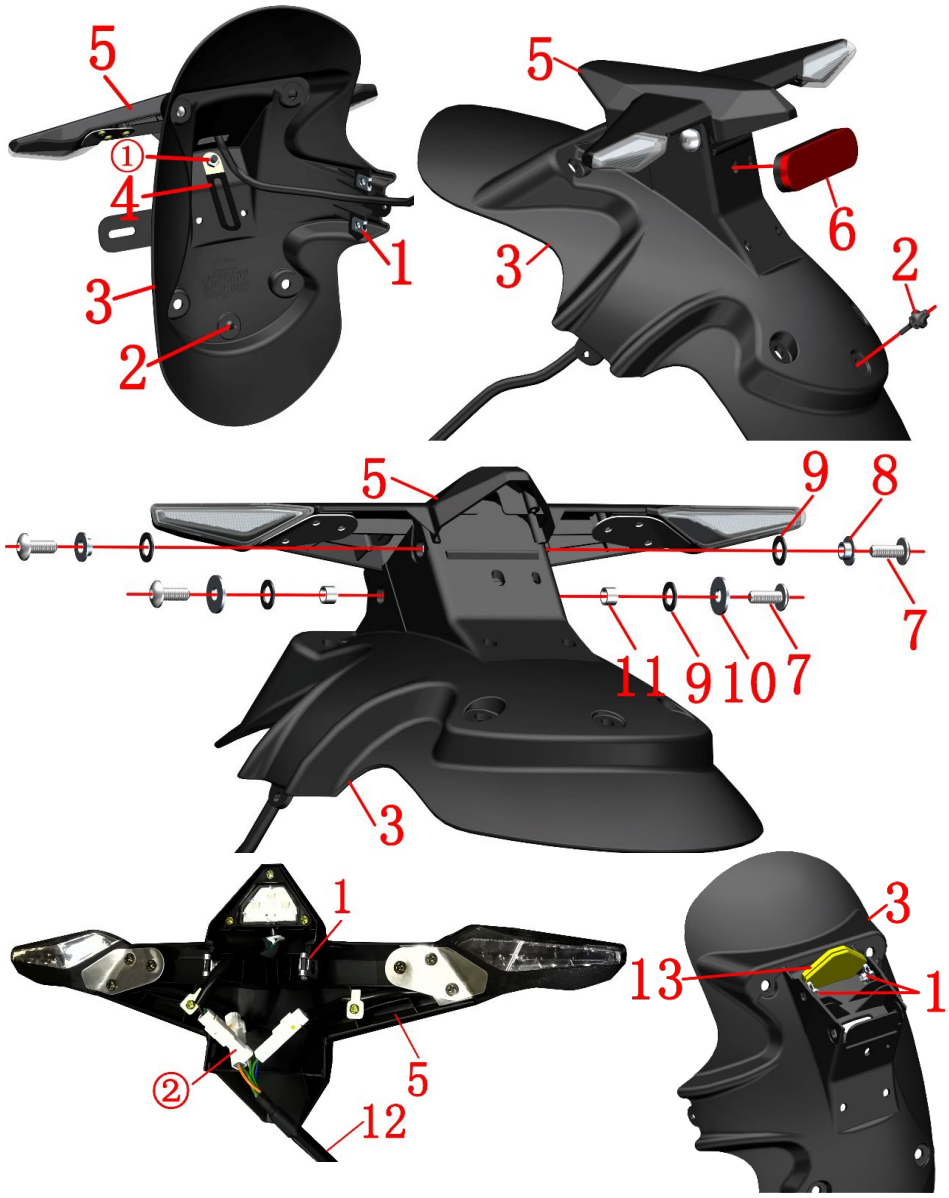


Fig.3 REAR WHELL COMPONENT		Rear sub-mud assembly 3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-063093	Splint M6×11×15 (environmental color)	6	
2	1244100-006000	ZT250-S rear license plate cushioning rubber	1	
3	1224200-091000	ZT310-R rear Associate fender	1	
4	1270300-273000	Φ8 line clamp (L = 73)	1	
5	1174200-035000	ZT310 rear turn light (including license plate light)	1	
6	1174100-002000	ZT250-S rear reflector	1	
7	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	4	
8	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	2	
9	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	4	
10	1250502-010093	GB96.1φ6 (environmental color)	2	
11	1274100-018000	ZT250-S muffler anti-scalding bushing	2	
12	1184200-030000	ZT310-R Associate fender transfer 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.

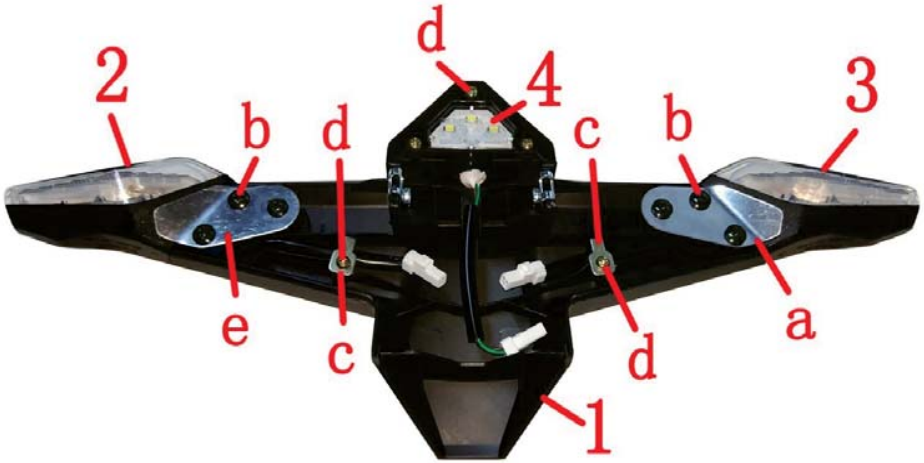


Fig.4 REAR WHELL COMPONENT		Rear turning light parts for after sales service	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-120000	ZT310 rear turning light holder	1	
2	1174200-019000	ZT310－X L, rear turning light	1	
3	1174200-020000	ZT310－X R, rear turning light	1	
4	1174200-021000	ZT310－X license lamp	1	

PROCEDURE:

●Rear turning light（license lamp included）

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

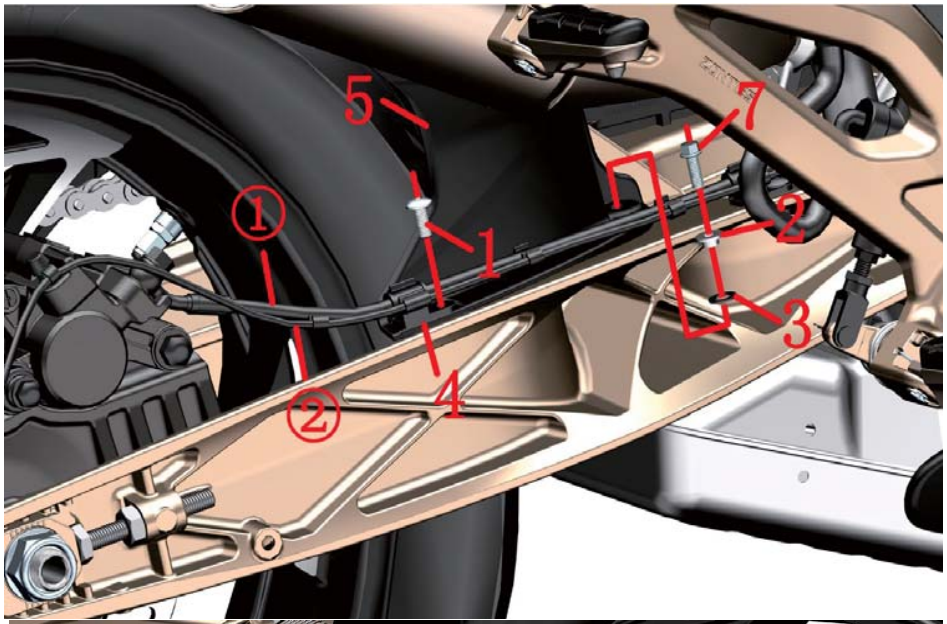
Disassemble bolts "b" and "d" on the diagram left side, and then dismantle left press line plank of "e" and press line plank "c", dismantle the L, rear turning light(2) ;follow the steps above dismantle right press line plank of "a" and press line plank "c".

CAUTION:

●Avoid fasterning the bolt on the cable while reassembling in case of shrt circuit.

ZT310－X L, rear turning light

ZT310－X R, rear turning light



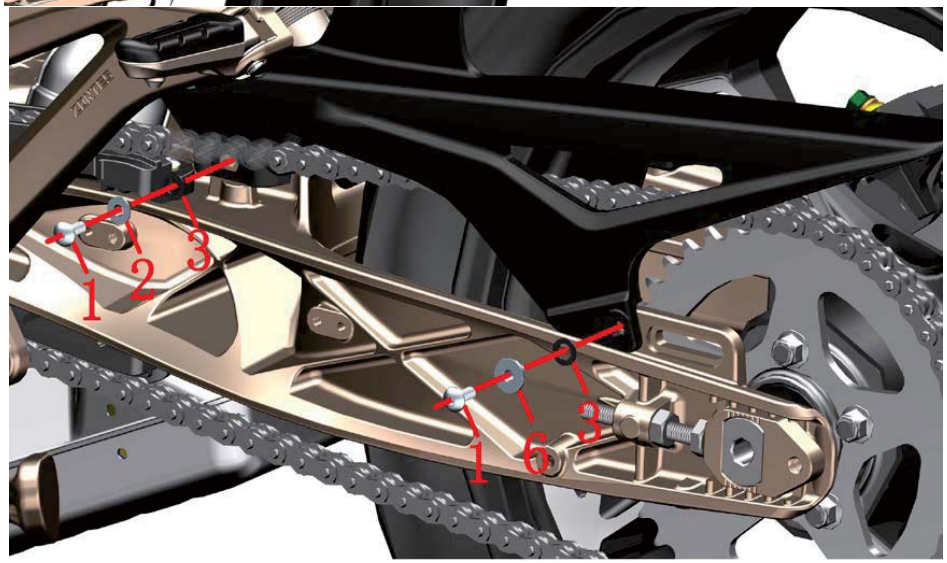


Fig.1 REAR WHELL COMPONENT		Rear inner mudguard	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard Bolt M6×16（SS）	3	
2	1274100-057095	Bush φ6.2×φ8.4×3.5＋φ14×1.5	2	
3	1244100-052000	Gum cushion, bush（φ8.5×φ14×1）	3	
4	1224200-003000	ZT310－Z rear disc brake oil tube cleat	1	
5	1224200-094000	ZT310－rear inner mudguard	1	
6	1251700-059093	Bush φ6.4×φ9×8＋φ18×2（environmental color-zinc）	1	
7	1251112-001093	M6×16 Hexagon flange bolts (color zinc)	1	

PROCEDURE:

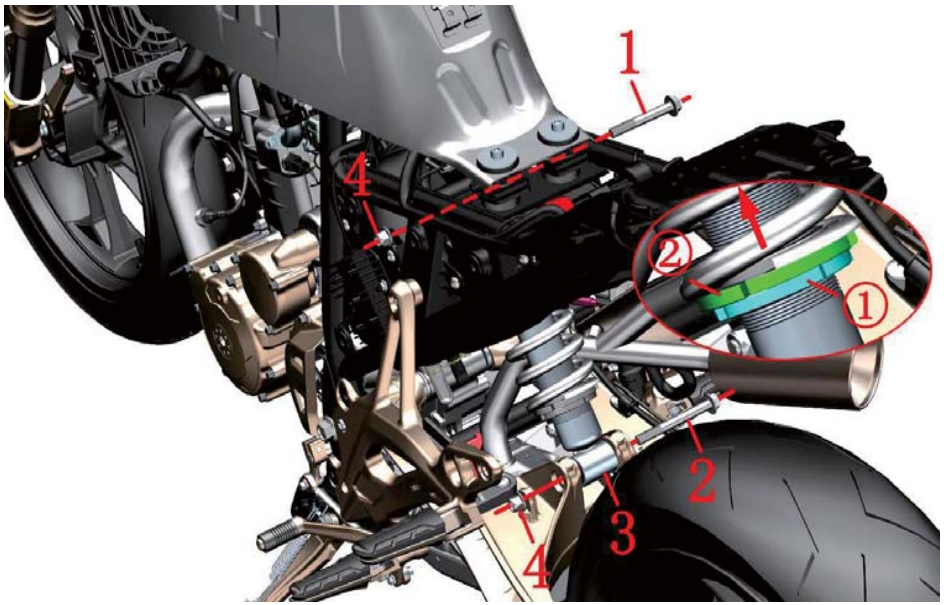
●Rear inner mudguard

First of all, pull out the braking oil tube① and wheel speed sensor cable②, which are on the right side of rear inner mudguard,from the slot of rear disc brake oil tube cleat; Disassemble 3 bolts(1) and bolts (7) with hex sockets tool and open end wench, disassemble bush(2),bush(6); gum cushion(3); finally take off the rear inner mudguard(5).

CAUTION:

●Use suitable tools to support the motorcycle, in case of accidents caused by motorcycle falling down. Single person operating is prohibited.

●Stay alert during the manipulation and avoid accident.



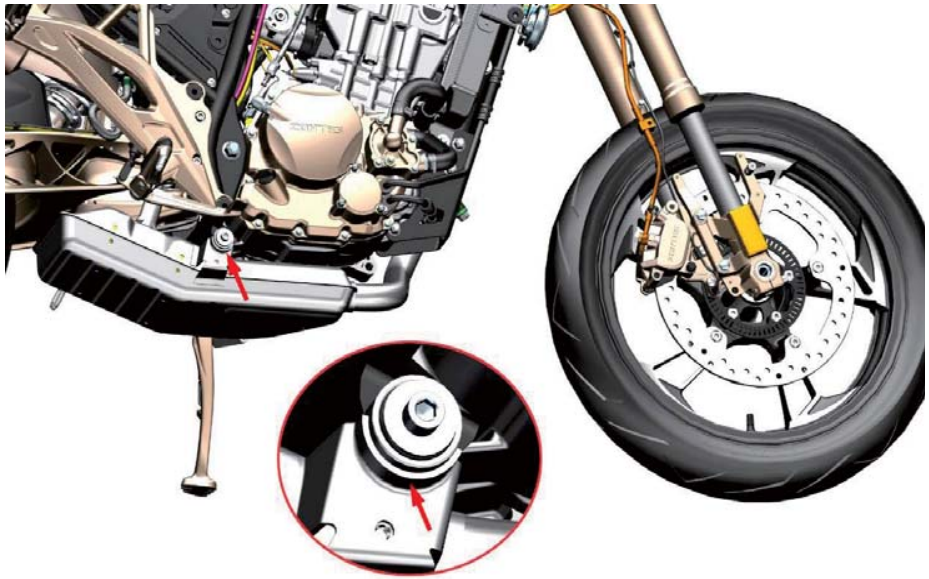


Fig.6 REAR WHELL COMPONENT		Rear shock absorber	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-085093	Non standard bolt M10×1.5×75（DACROMET）	1	
2	1251100-060000	Non standard bolt M10×1.5×90（DACROMET）	1	
3	1114200-033000	ZT310－R Rear shock absorber	1	
4	1251300-057093	Non standard nut M10×1.5（DACROMET）	2	

PROCEDURE:

●Rear shock absorber

Put down side stand. Person 1: Turn the handling bar to left end with left hand; hold tight the rear pedal with right hand and lean the motorcycle to left side. Person 2: support the motorcycle with a wooden stool from right side of motorcycle at the muffler installation point(see left lower photo) to lift the rear wheel a little bit from the ground. After supporting well the motorcycle, Person 1 hold firmly bolt(1)&(2) with socket sleeve while Person 2 disassemble nuts(4) with socket sleeve.

Person 1 shake slightly the rear wheel up and down. Person 2 drag out bolt(2).

Person 1 hold firmly the motorcycle. Person 2 lift 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 spanner to loosen adjustive nut①. Rotate adjustive 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 either the absorber is too soft or too hard.

CAUTION:

●Disassemble seat, L,side cover, R, side cover, bolts on front parts of rear cover and rear inner mudguard.

●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.

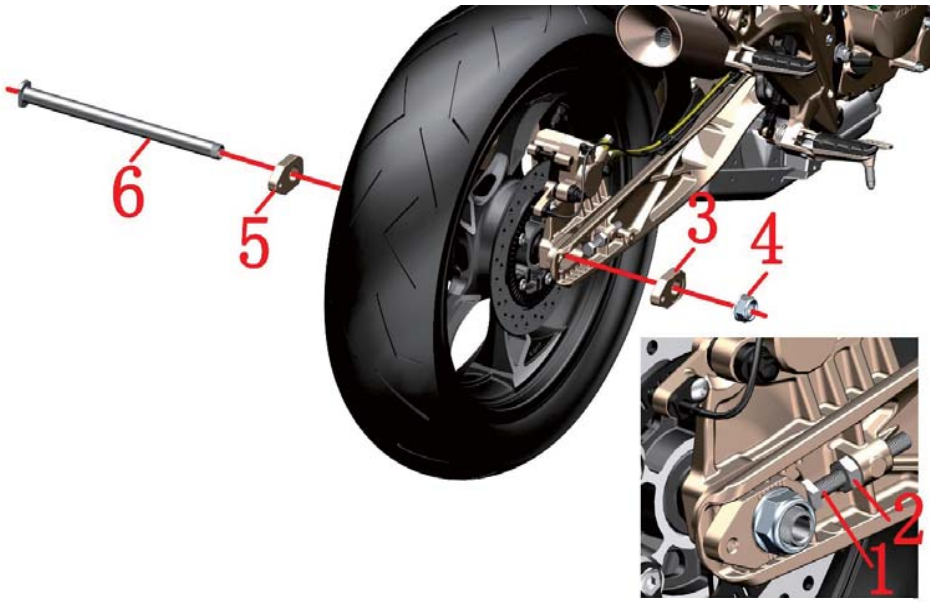


Fig.7 REAR WHELL COMPONENT		Rear wheel component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-105000	ZT310－Z Chain adjusting bolt M10×70	2	
2	1251300-050000	ZT310－Z Chain adjuster nut M10	2	
3	1032142-073035	ZT310 R, chain adjuster(Titanium)	1	
	1032142-075051	ZT310 R, chain adjuster(dark gray)		
4	1251300-067000	ZT250－R rear wheel axle nut	1	110N.m
5	1032142-072035	ZT310 L, chain adjuster(Titanium)	1	
	1032142-074051	ZT310 L, chain adjuster(dark gray)		
6	1094100-032000	ZT250－R rear wheel axle	1	
7	1274200-002000	Rear wheel right axle sleeveφ20×φ28×φ38×18.5	1	
8	1244200-050000	ZT310－T Sprocket gum cushion	5	
9	1094200-011000	ZT310－R Sprocket bracket	1	
10	1080100-068000	ZT310－T 520－42T sprocket	1	
11	1251300-057093	Non standard nut M10×1.5（DACROMET）	5	
12	1274100-106000	Rear wheel left axle sleeveφ20×φ30×φ35×12.9	1	

●Rear wheel assembly

Disassemble rear wheel axle nut(4) with socket sleeve.

Use open spanner to move chain adjuster nut(2) on both sides towards rear wheel axle until they reach chain adjusting bolt(1). Then rotate the bolt and nut towards motorcycle front direction till the end.

Push rear wheel assembly towards motorcycle front direction and take off the chain from sprocket.

Tie firmly the rear disc brake clamp and avoid it to be lifted higher than disc brake oil cup. Hold the rear wheel assembly. Punch rear wheel axle(6) with rubber hammer. Take off right chain adjuster(3), rear tire and rim assembly, left chain adjuster(5),the rear wheel axle(6). Disassemble the right axle sleeve(7), left axle sleeve(12) at last.

●Sprocket bracket assembly

Put down the rear wheel assemble horizontally. Take off nut(11) with socket sleeve. Take off sprocket(10); sprocket bracket(9). Pull out the sprocket gum cushion(8) from the rim.

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.

●While disassembling the rear wheel assemble, avoid the rear disc brake clamp to be lifted higher than the disc brake oil cup. If not, air will get into the tubes and cause softness or failure on braking system. As disc brake tubes request extreamly high vaccum degree. Make sure manipulator has maintenance ability before disassembling the disc brake assembly.

●Check the chain regularly. Clean the chain every 1500km is suggested. Keep the tightness of chain to be in a suitable range. Too loose chain have possibility to separate from sprocket or damage the engine. Too tight chain can be worn out quickly.

Fig.8 REAR WHELL COMPONENT		Rear wheel component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1230100-480000	160/ 60R17 (CM638R) environmentally friendly vacuum rear tire	1	
2	1094200-042063	ZT310－R blue rear rim（4.5×17）	1	【1】
	1094200-020000	ZT310－T black rear rim（4.5×17）		【2】
3	1100100-419000	ZT310－R1 rear disc brake plate（230×4.5）	1	
4	1274200-168021	ABS gear ring(40T)	1	
	1274200-058000	ABS gear ring(60T)		
5	1251100-117093	Non standard hex socket bolt M8×25	5	
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:

●Disc brake plate, ABS gear ring

Disassemble bolt(5)， Then take down the ABS gear ring(4) and the disc brake plate(3).

●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. Specification of oil seal on rear rim is φ47×φ28×7. Bearing type: 6204-2RS。

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

CAUTION:

●Be careful while disassembling the tire and rim in case of damages on the components.

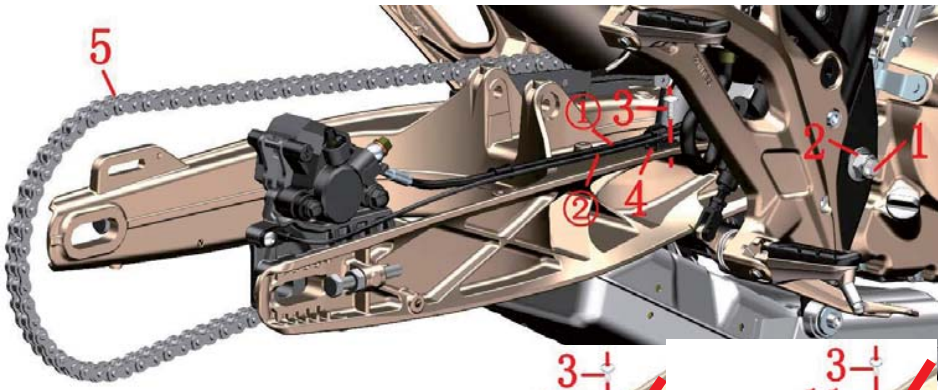
●Not enough tire pressure can cause abnormal wear and tare. Too high pressure in summer might have possibility of tire bursting.

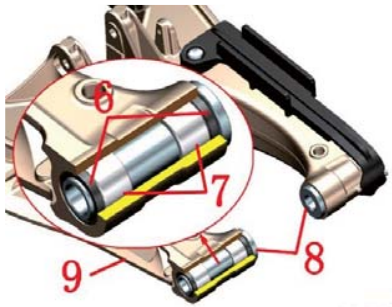
●It needs running-in for about 300km after changing new rear disc brake plate. During this period, leave enough braking distance while riging.

●【1】for blue motorcycle; 【2】for other color motorcycle.

●The motorcycles produced before May 18,2019 use 40T inductive gear rings.And then use 60T.

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

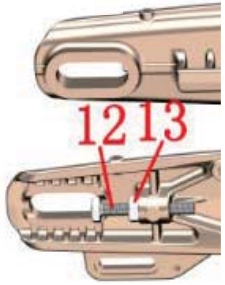




Improvements rear fork anti-bearing block

Old rear fork anti-bearing block

Improvements rear fork anti-bearing block



Old rear fork anti-bearing block

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

Fig.9 REAR WHELL COMPONENT		Rear swinging arm component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1252200-016093	250Rear fork shaft 14×310（Dacro）	1	
2	1251300-059093	125Rear fork shaft nutM14×1.5（Dacro）	1	110±5N.m
3	1251100-102000	Non-standard bolt M6×16（stainless steel）	3	
4	1224200-003000	ZT310－ZRear disc brake pipe clamp	1	
5	1080200-032000	ZT250－R 114 Chain（CHOHO520HX）	1	
	1080200-055000	ZT250－R 114 Chain（CHOHO520HX/ open type）		【1】
6	1104100-005000	ZT250－Soil seal TC20×26×4	4	After sales only
7	1094100-001000	ZT250－S Needle bearing（HK2016)	4	After sales only
8	1274100-009000	ZT250－S Rear fork bushing	2	
9	4024100-024000	ZT250Aluminum alloy rear fork assembly	1	
	4074200-005051	Dark gray aluminum alloy rear flat fork assembly		
10	1244100-066000	ZT310－Z Rear fork wear block	1	
11	1274100-057095	Flanging bushingφ6.2×φ8.4×3.5＋φ14×1.5	2	
12	1251300-050000	ZT310－ZChain adjuster nut M10（304stainless steel）	2	
13	1251100-105000	ZT310－ZChain adjuster bolt M10×70	2	
14	1251500-097000	Non-standard flat mats φ6.5×φ22×1.5	1	

PROCEDURE:

●Rear fork assembly

Pull off the disc brake oil pipe①and wheel speed sensor② from the disc brake oil pipe clamp(4),loosen the bolt(3) and take off the disc brake oil pipe clamp.

The rear disc brake caliper is placed well and cannot be higher than the disc brake oil cup,as shown in left figure.

One person fastens the head of the rear fork shaft with sleeve, and the other person remove the nut(2)with it.

One person holds the rear fork assembly and the other person removes the rear fork shaft(1) with suitable tool and then remove the rear fork assembly.

●Rear fork rear-resistant block

Remove the bolt(3),flanging bushing(1) with inner hexagon tool, and then remove the wear-resistent block.

Remove the chain adjuster bolt(12) and nut(13) with the open end wrench.

Put the rear fork bushing (8) inward and remove it.

Oil seal (6) and needle bearing (7) are used for interference compression.

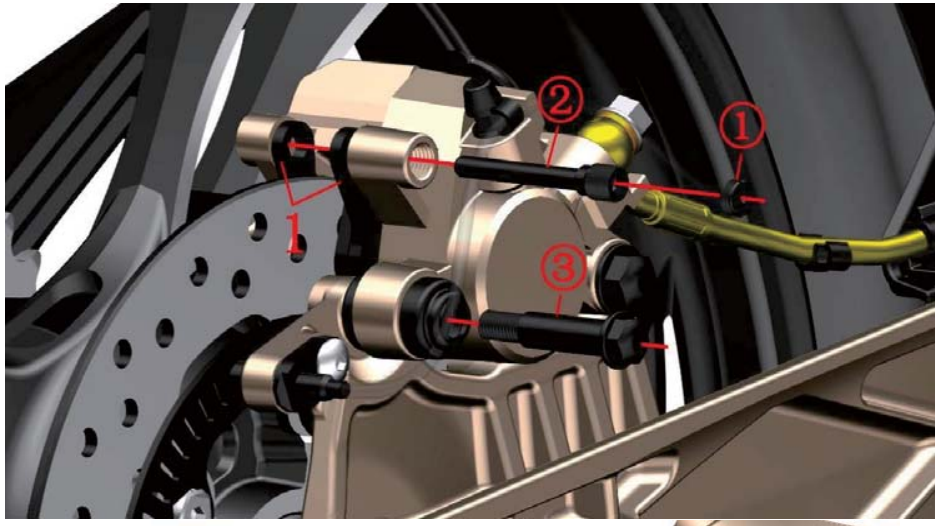
Please ensure that you have the ability to disassemble and disassemble.

CAUTION:

●The rear disc brake caliper must not be higher than the disc brake oil cup, otherwise the brake will become soft or fail due to air entering the pipeline. Because the brake line requires extremely high vacuum, it is necessary to ensure sufficient capacity for repair and disassembly.

●【1】The open type is convenient for replacing the chain after sale, and the original vehicle has no opening. A special chain installation tool is required, and the tool must be purchased by yourself.

●If your motocycle manufactured before Set.2,2019,it's need to be accompained by the purchase of non-standard flat mats (13) when replace Rear fork anti-bearing block (10).



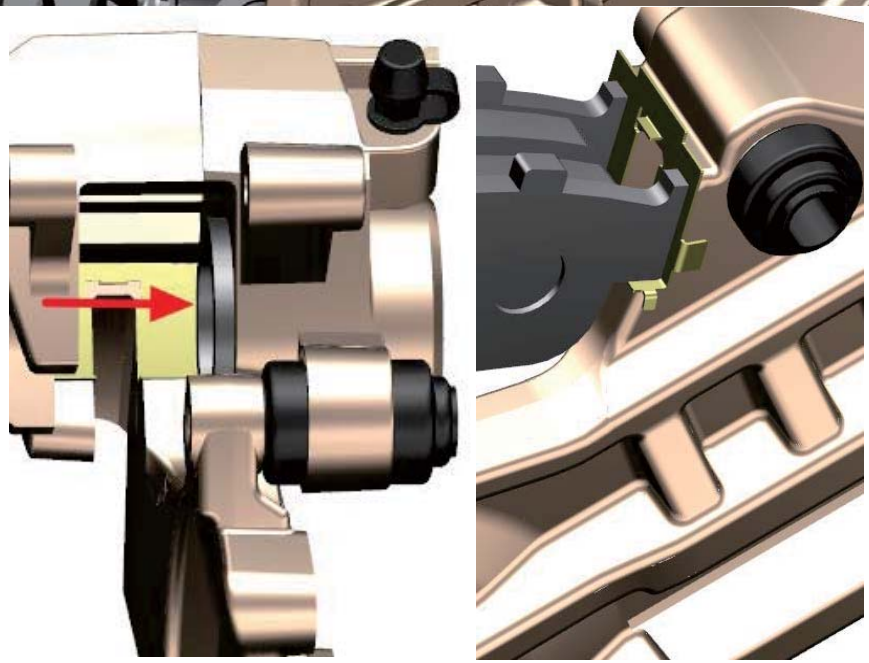


Fig.10 REAR WHELL COMPONENT		Change rear brake arresters	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1100100-092000	ZT250－S rear disc brake arrester(HS10)	1	

PROCEDURE:

●Disassemble disc brake arrester

Use strait screwdriver to disassemble nut①.

Disassemble pin axle② with hex socket tool.

Disassemble rolling axle③ with socket sleeve.

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 axle② with hex socket tool.

Tighten rolling axle③ with socket sleeve.

Tighten nut① with strait screwdriver.

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.

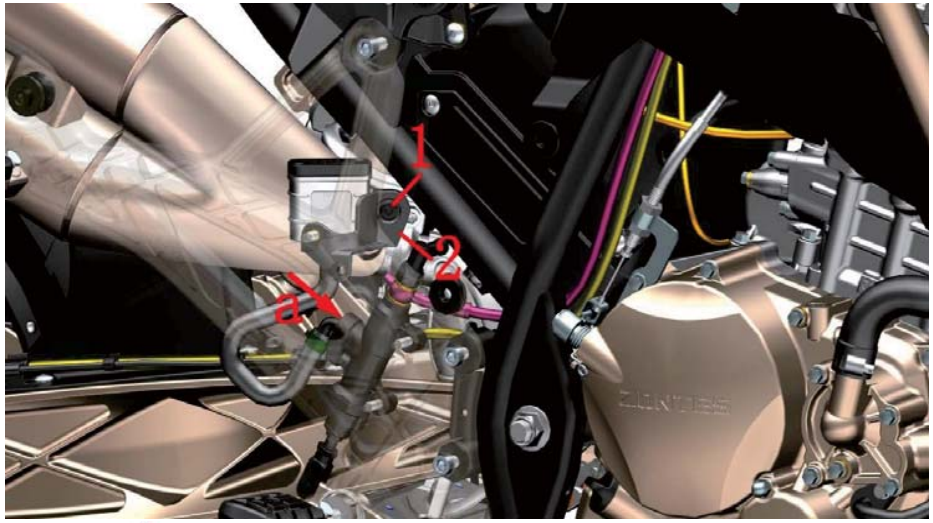


Fig.11 REAR WHELL COMPONENT		Rear disc brake main pump adding braking liquid	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250－S Expanding bolt	1	
2	1224200-055000	ZT310－R rear disc brake oil cup holder	1	

PROCEDURE:

●Add disc brake liquid

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

Pull out the oil cup④; Should always remain above the oil tube interface "a", 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".

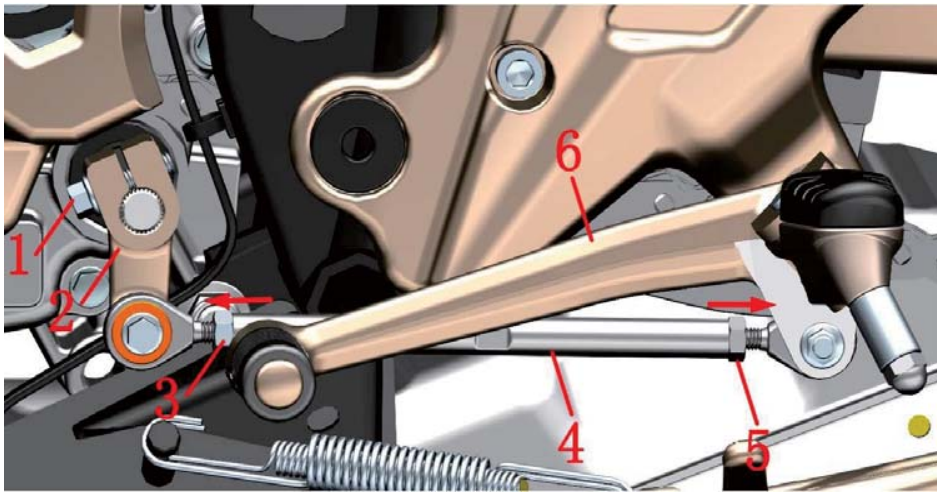
●If liquid surface is below "LOWER", check the arrester status and confirm if the braking system is leaking.

●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.



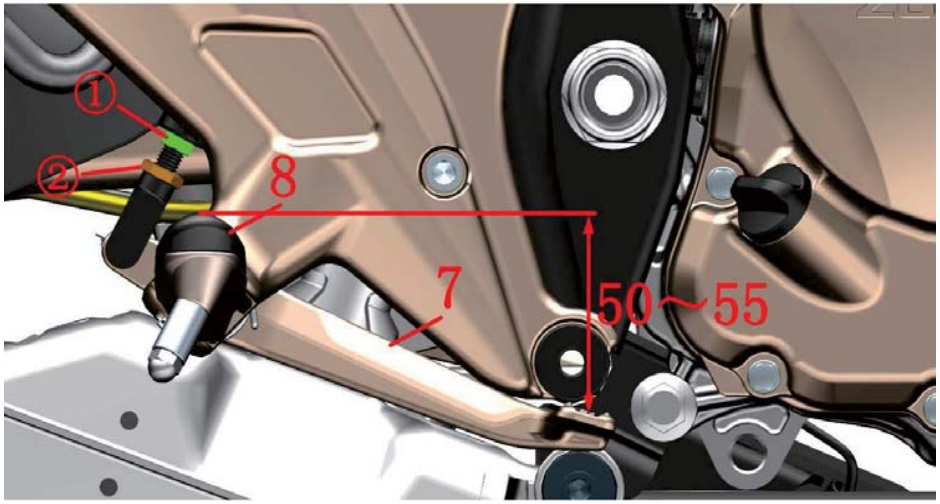


Fig.1 FOOT PEDAL COMPONENT		Adjust the hight of foot pedal	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Hexagon flange bolt 8.8 degree	1	
2	1274100-039000	ZT250－S Gear swift rod spline of Rocker arm	1	
	1271200-163000	ZT250－S Gear swift rod spline of Rocker arm (dark gray)		
3	1250301-020093	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

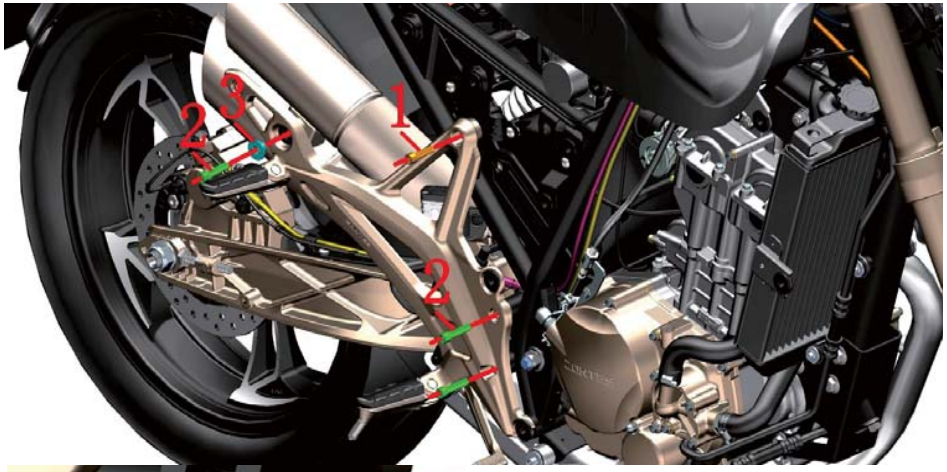
Follow the direction of arrow and loosen Nut②. Spin the adjustment rod bolt① and adjust the brake pedal(7) to 50~55mm below the top part(8). Fix the adjustment rod bolt① and tighten Nut②.

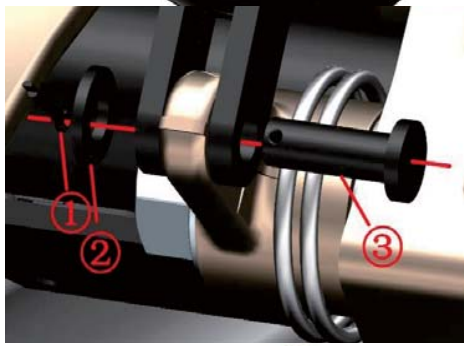
CAUTION:

●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.





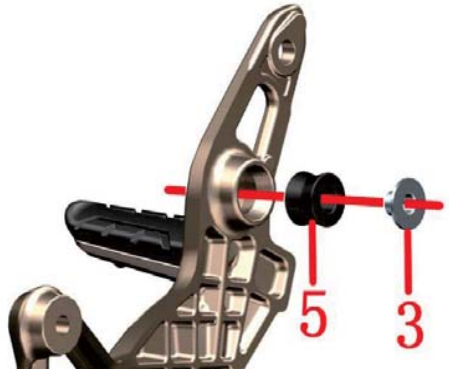


Fig.2 FOOT PEDAL COMPONENT		Right foot pedal holder assmebly-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-034093	GB70.1 Hex socket bolt M8×30	1	
2	1250205-023000	GB70.1 Hex socket bolt M8×35	3	
3	1274100-068095	ZT310 Muffler bush	2	
4	1224100-010000	ZT250－S Expanding bolt	1	
5	1244100-064000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

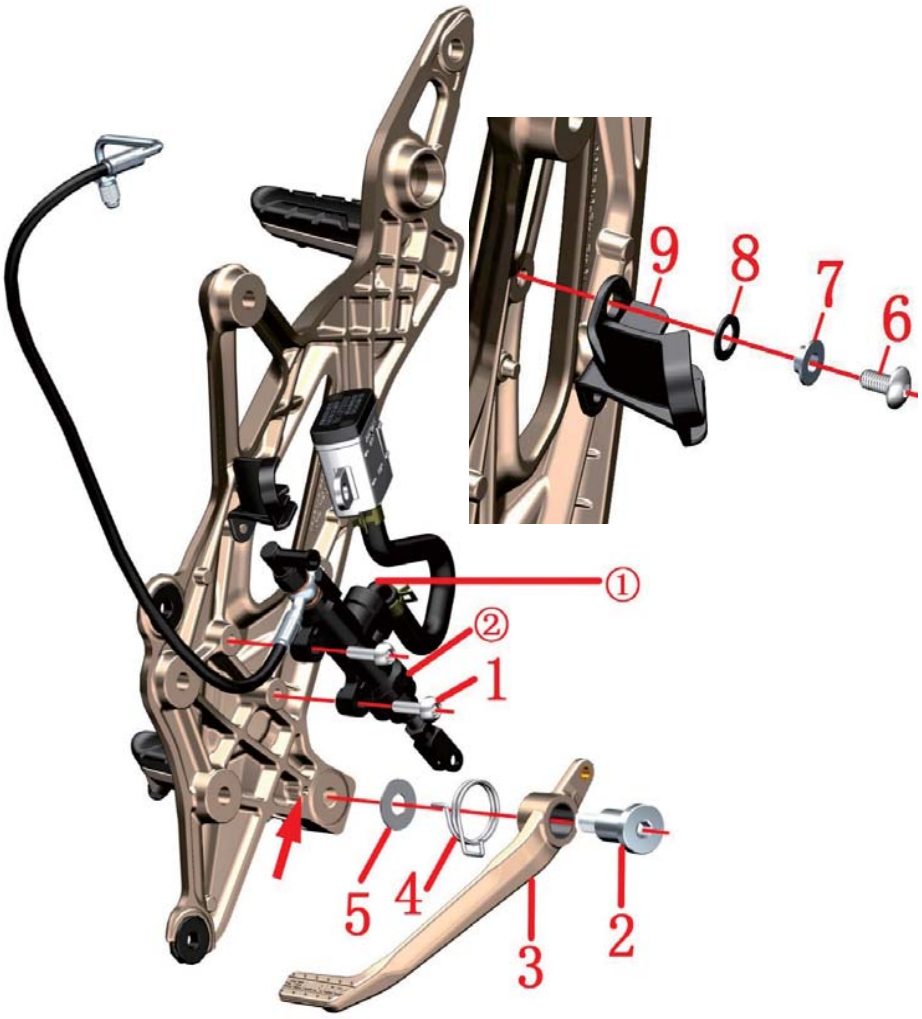


Fig.3 FOOT PEDAL COMPONENT		Right foot pedal holder assmebly-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-121093	Non standard bolt M6×25（environmental color-zinc）	2	
2	1251100-131000	Non standard bolt M10×1.5×36	1	
3	1274200-010000	ZT310－R brake pedal	1	
	1274200-300051	ZT310－R brake pedal (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.

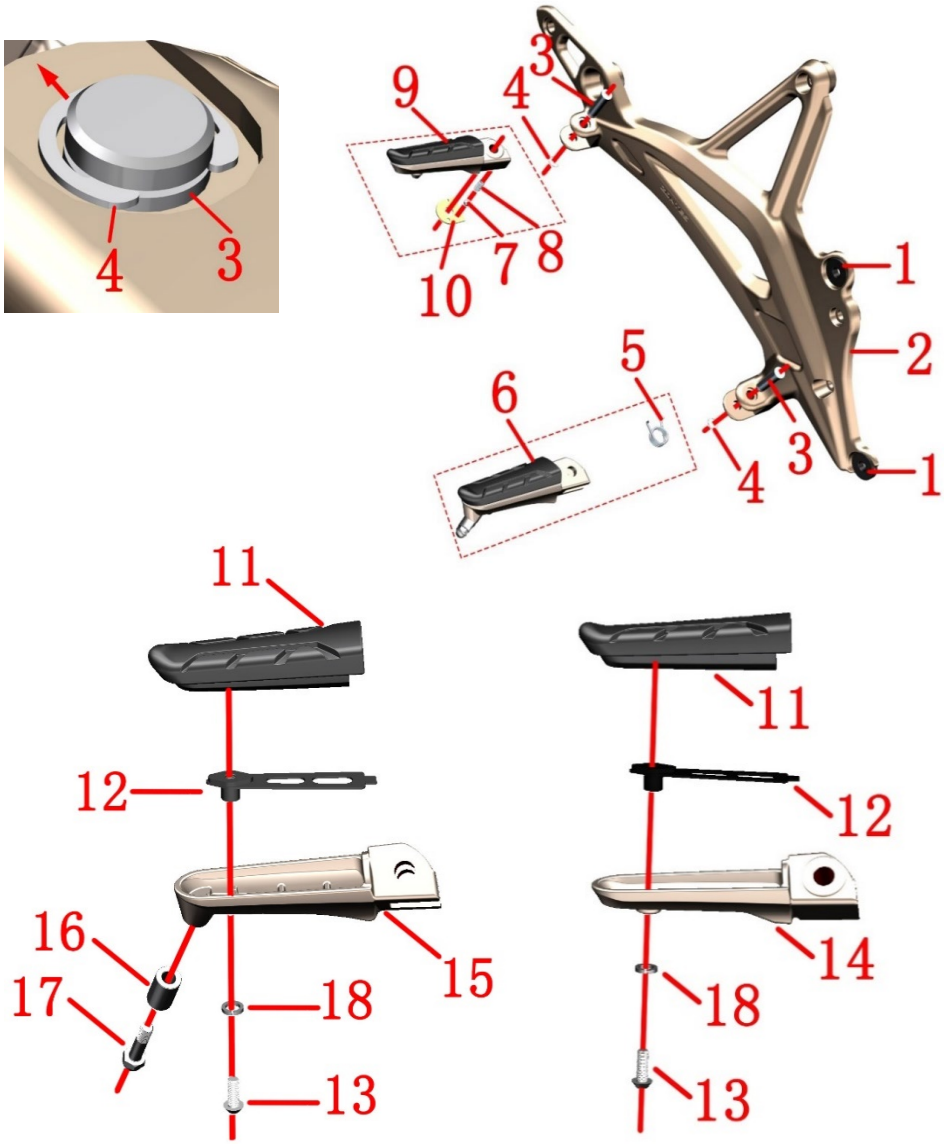


Fig.4 FOOT PEDAL COMPONENT		Right foot pedal holder assmebly-3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-002000	ZT250－S side cover round gum cushion	2	
2		R, foot pedal holder	1	
3		Foot pedal pin axle	2	
4	1264100-006000	ZT250－S foot pedal spring	2	
5	1264100-004000	ZT250－S R, front pedal 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

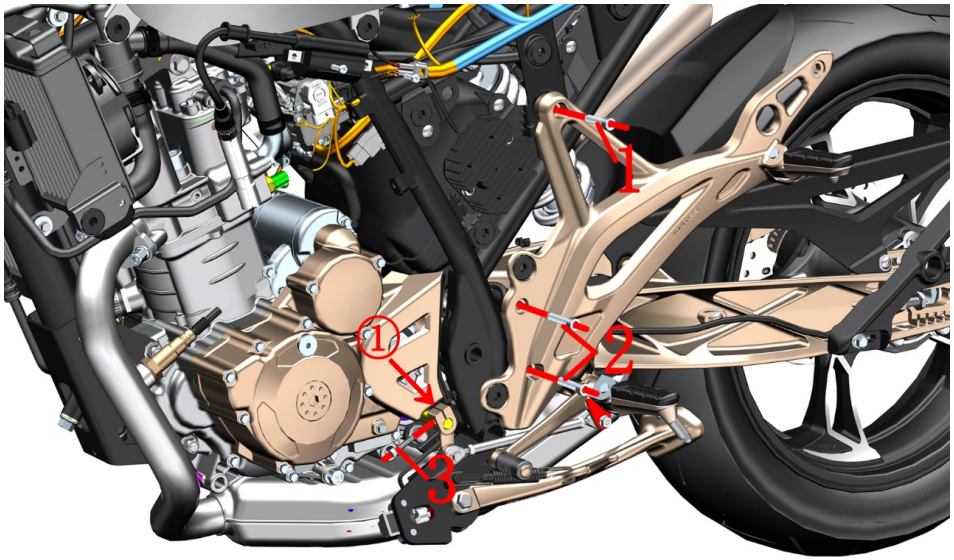
Disassemble side cover round gum cushion(1).

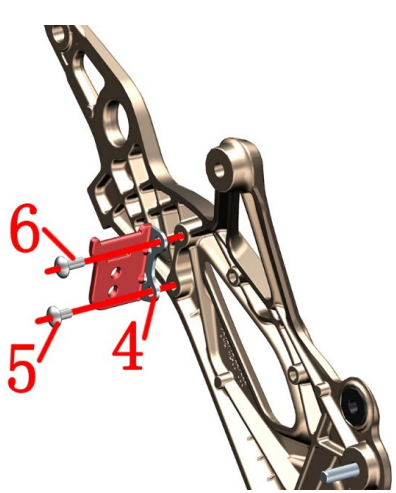
●After sales parts for new pedal with rubber

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) .





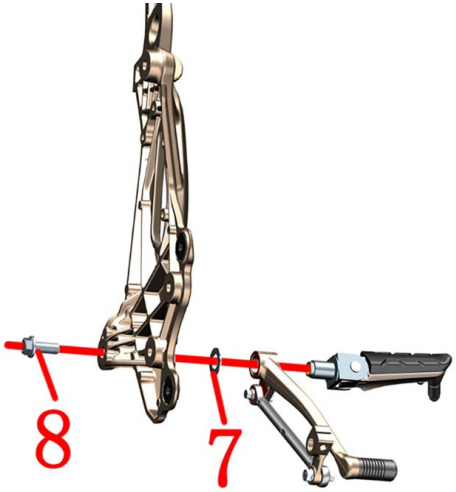


Fig.5 FOOT PEDAL COMPONENT		L, foot pedal holder component-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-034093	GB70.1 Hex socket M8×30（environmental color-zinc）	1	
2	1250205-023000	GB70.1 Hex socket M8×35（environmental color-zinc）	2	
3	1251100-061093	M6×22Hexagon flange bolt 8.8 degree	1	
4	1274200-037000	ZT310－R disc brake lock holder	1	
5	1251100-101000	Non-standard boltM6×12（304 stanless steel）	1	
6	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	1	
7		Foot pedal holder washer	1	
8	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.

●Disc brake lock holder

Turn over to the back side. Disassemble bolt(5)and(6) with hex socket tool.Take off disc brake lock holder(4).

●Gear shift rod assembly

Disassemble bolt(8). Separate left foot pedal component and gear shift rod assembly from left foot pedal holder assembly. Take off foot pedal holder washer(7).

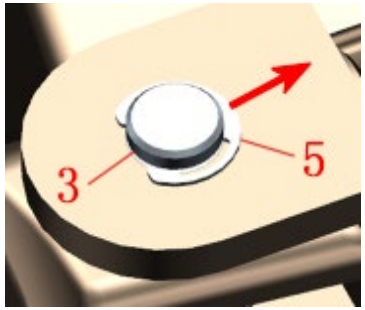
CAUTION:

●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.

●The disc brake lock holder is only available for "TOP DOG RE008" and "TOP DOG RE0081",ohter models are not adapted.



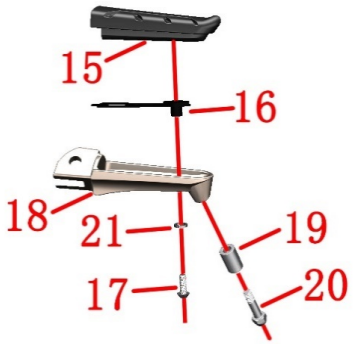


Fig.6 FOOT PEDAL COMPONENT		L, foot pedal holder component-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		L, front pedal component	1	
2	1264100-003000	ZT250－S L, front pedal spring	1	
3	1274100-012000	ZT250－S Pedal axis pin	1	
4		Foot pedal holder	1	
5	1264100-006000	ZT250－S Foot pedal circlip	1	
6	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).

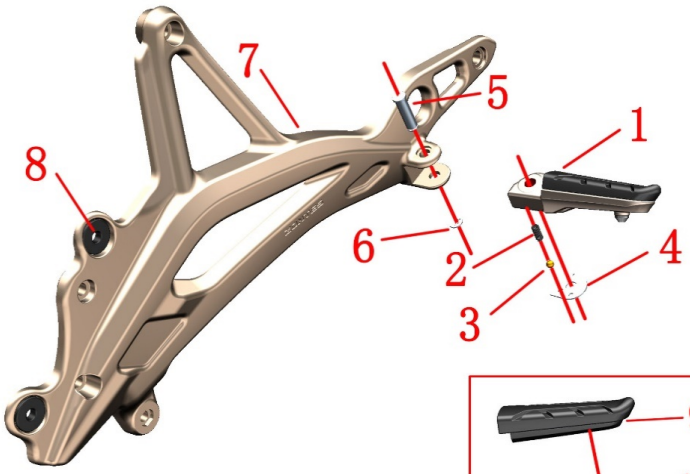
●Foot pedal with rubber for after sales service

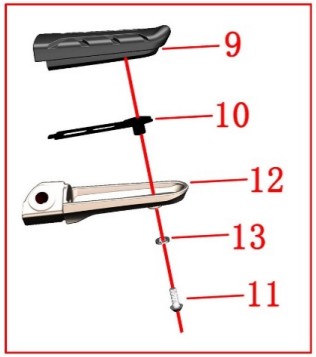
Hold the L, front pedal(18) tightly.Disassemble bolt(20) then take off bushing(19). Then take off bolt(17) take off spring washer(21) .Take off rubber(15), positioning plate(16).

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.





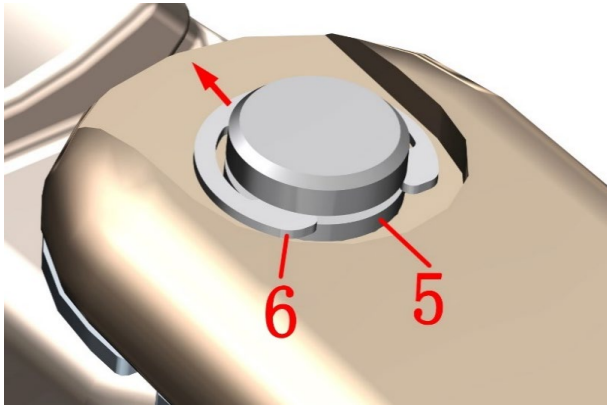


Fig.7 FOOT PEDAL COMPONENT		L, foot pedal holder component-3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		L, rear foot pedal component	1	
2	1264100-005000	ZT250－S foot pedal steel ball spring	1	
3	1274100-010000	ZT250－S rear foot pedal steel ball	1	
4	1270300-272000	KD250－F rear foot pedal positioning 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		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

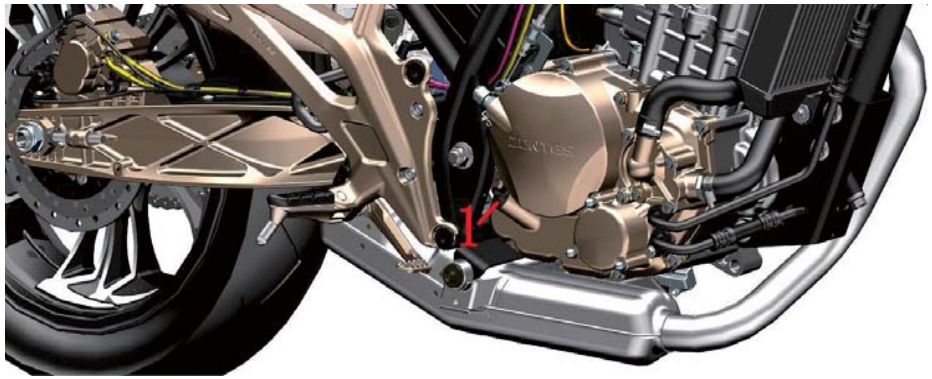
Hold the L, rear foot pedal(12) tightly, use hex socket tool to disassemble bolt(11), Take off spring washer (13). Take off rubber(9) and positioning plate(10).

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.



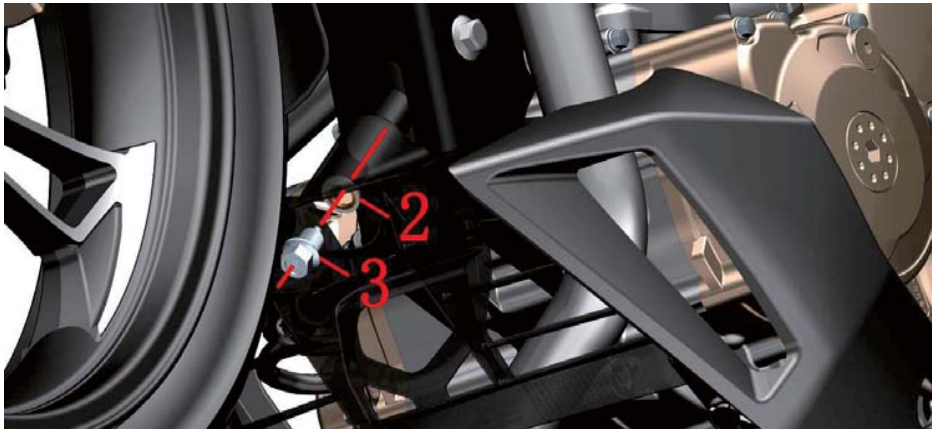


Fig.1 COOLING SYSTEM COMPONENT		Change engine oil	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1050854-002000	ZT180MN Engine oil level gauge	1	
2	1244100-033000	Sealing gasket 12×φ20×2	2	
3	1251100-066093	M12×1.5×15 Oil draining bolt	2	24±4N.m

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.

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(3) on the chassis and the engine. Take off sealing gasket(2). 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.

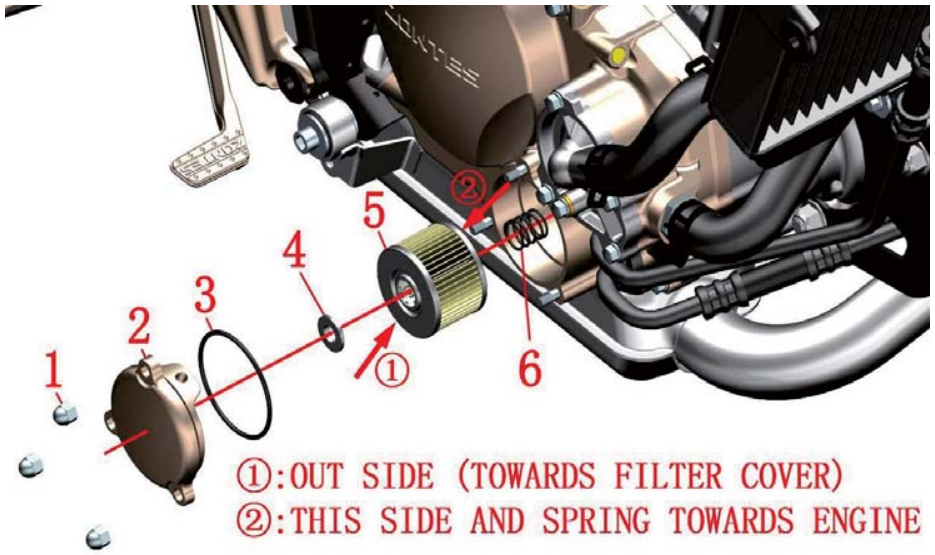
CAUTION:

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

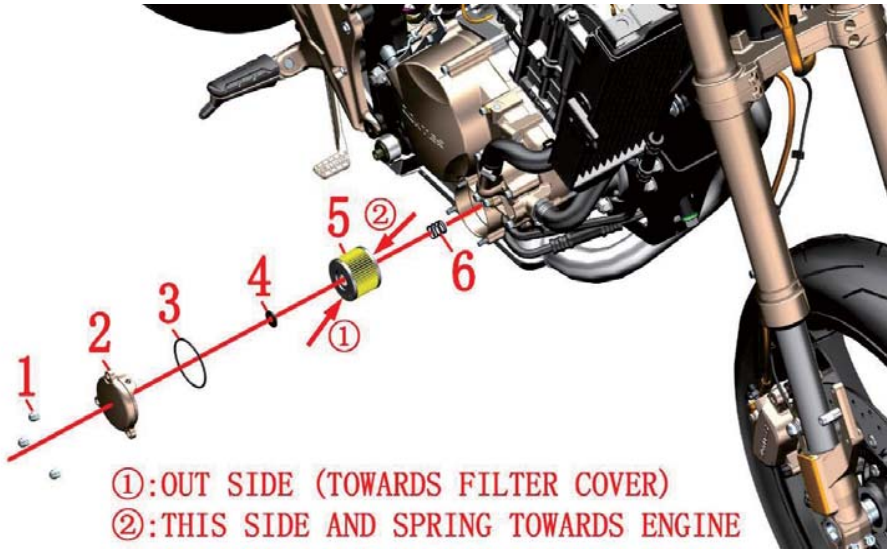
●Wasted engine oil should be collected and hand over to qualified facilities for further treatment. Do not pour the oil anywhere and avoid pollution of environment and water source.

●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.



Light clutch engine



Sliding llutch engine

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	4050954-002000	ZT180MN Engine oil refined filter cover（Titanium）	1	
	4050954-001000	ZT180MN fine filter cover A (titanium)		Sliding llutch engine
	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:

●For the slipper clutch version, please purchase the ZT180MN fine filter cover A (titanium) and ZT180MN fine filter cover A (dark gray). For the non-slipper clutch version, please purchase the ZT180MN oil filter cover (titanium gold). The mounting hole positions of the two are slightly different.

●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).

Light clutch engine

Sliding llutch engine

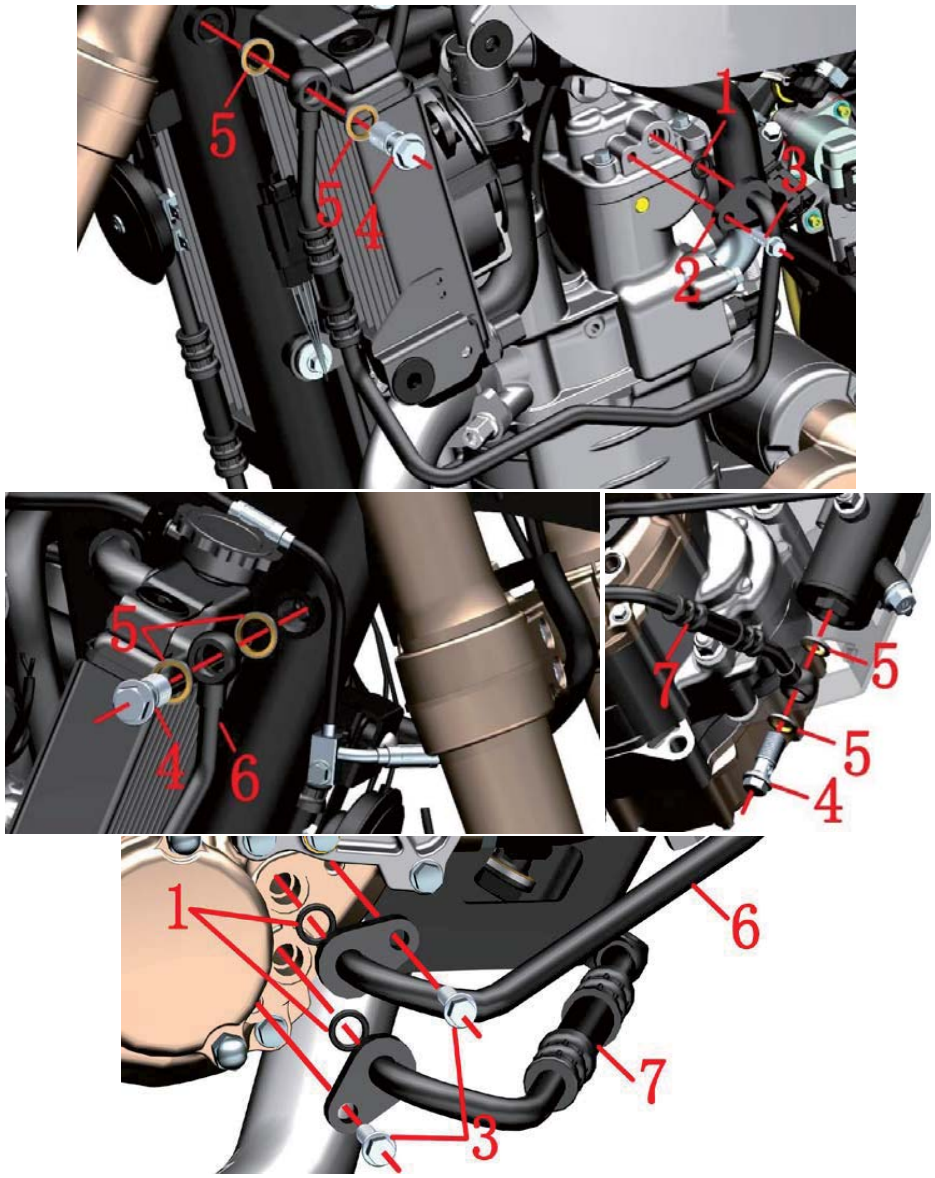


Fig.3 COOLING SYSTEM COMPONENT		Change engine oil	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1051454-014000	9.8×2.5 O-ring	3	
2	1244200-016000	ZT310－R Chassis connected oil tube	1	
3	1251100-061093	M6×22 Hex flange bolt（8.8 degree/environmental color zinc）	3	
4	1251100-089094	Oil passing bolt M14×1.50×32（environmental 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.

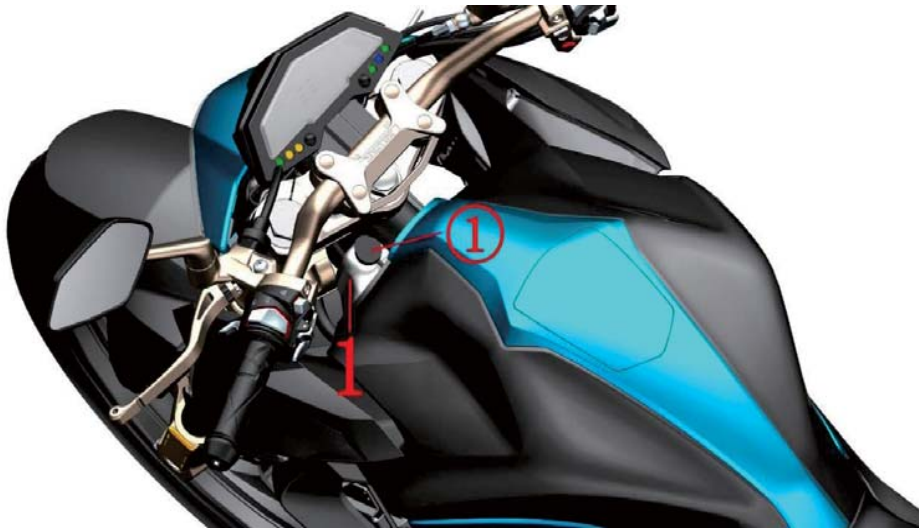


Fig.4 COOLING SYSTEM COMPONENT		Change engine oil	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-006000	ZT310－R sub cooling liquid tank	1	

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.

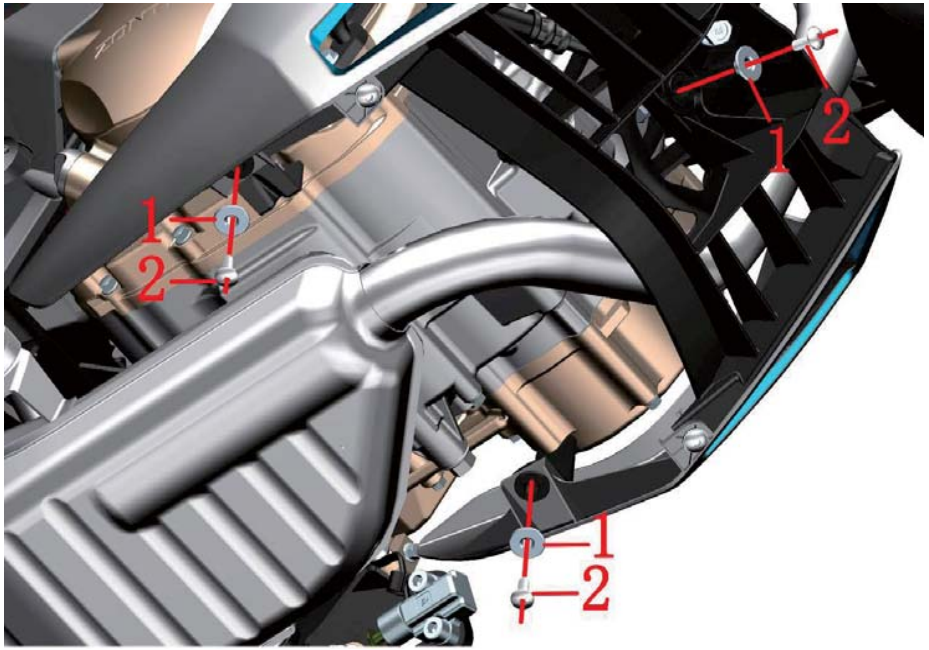
●Change cooling liquid every two years is suggested.

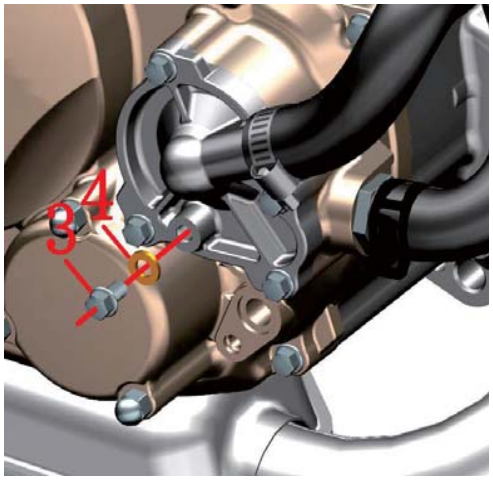
●Swallowing or inhaling cooling liquid would harm human body. Clean thoroughly the hands, face or explosing skin every time after adding cooling liquid. If cooling liquid is swalled by accident, please contact toxication center or hosipital. If it's inhaled, please move to open air. If it's spilt to 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.

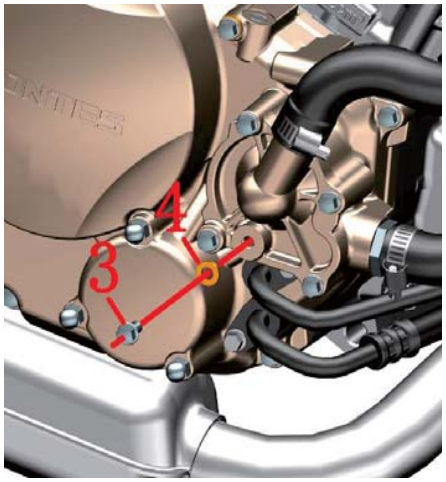
●Total volume of cooling liquid is 1440ml.

●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.





Light clutch engine



Sliding clutch engine

Fig.5 COOLING SYSTEM COMPONENT		Draining cooling liquid	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	3	
2	1251100-102000	Non standard bolt M6×16（304 stainless steel）	3	
3	1251112-001093	M6×16 Hex flange bolt（environmental color zinc）	1	
4	1051654-002000	Seal gasket ϕ 6×13×1.8	1	

PROCEDURE:

●Engine fairing assembly

Lift the motorcycle with platform. Hold the engine fairing assembly with one hand and disassemble 3 bolts(2) with the other hand by using hex socket tool. Then take off bush(1). Place properly the engine fairing assembly after taking it off.

●Drain the cooling liquid

Open the sub cooling liquid tank cover. Put a holder under it. Wear waterproof gloves and disassemble bolt(3) with socket sleeve. Take off seal gasket(4). 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.

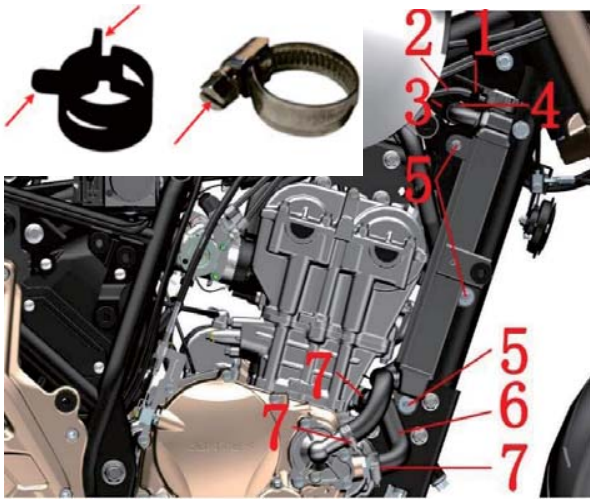
Wipe out all of the cooling liquid on surface every component with a clean cloth.

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.



Light clutch engine

Sliding clutch engine

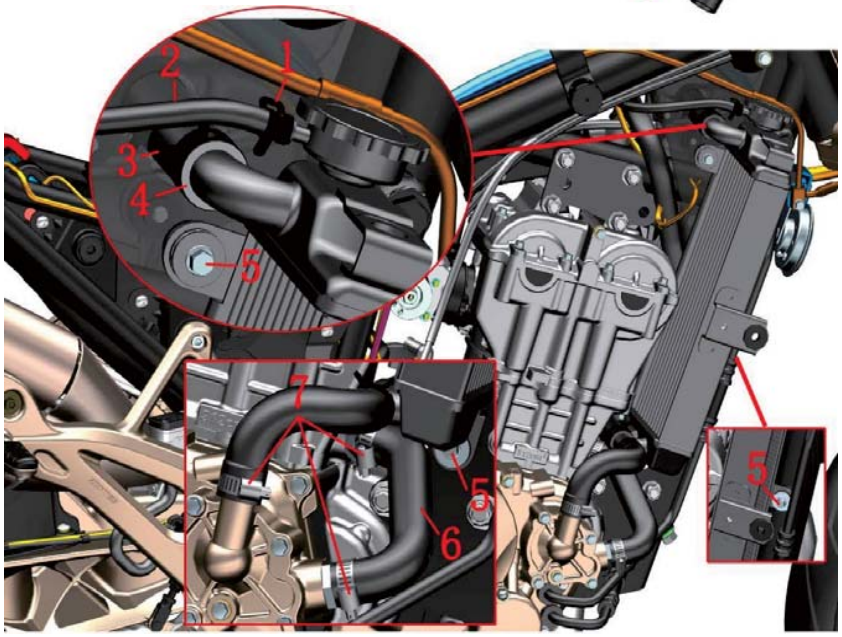


Fig.6 COOLING SYSTEM COMPONENT		Right cooling liquid tank component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1274200-079000	ZT310 Hoop of cooling liquid tube（φ9）	1	
2	1244200-013000	ZT310－R Connecting tube of sub cooling liquid tank	1	
3	1274200-090000	ZT310 Hoop of cooling liquid tube（φ26）	1	
4	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	1274200-005000	ZT310－R R, cooling liquid tank	1	
10	1244200-098000	ZT310－R 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.

●L & R cooling liquid tank connecting tube

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

●Right cooling liquid tank assembly

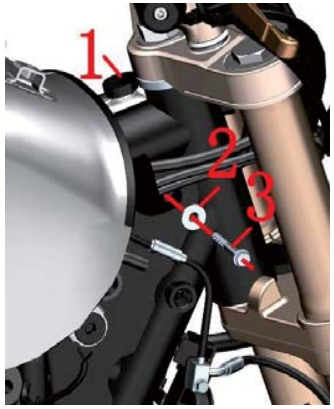
Hold the right cooling liquid tank assembly with one hand, disassemble 3 pcs of bolts(5) with socket sleeve with the other hand. Separate the connecting tube(4) with right cooling liquid tank assembly.

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).

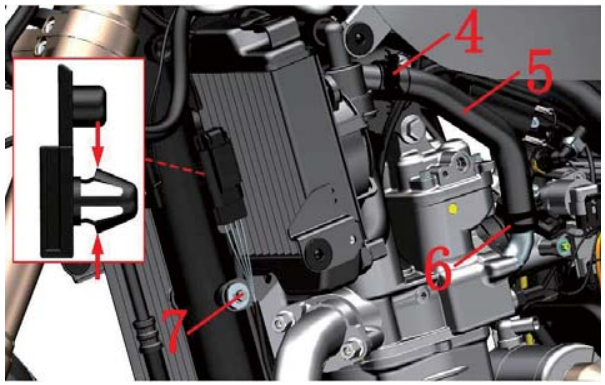
CAUTION:

●Motorcycle should be well supported.Manipulation should start after the engine is completely cooled down.

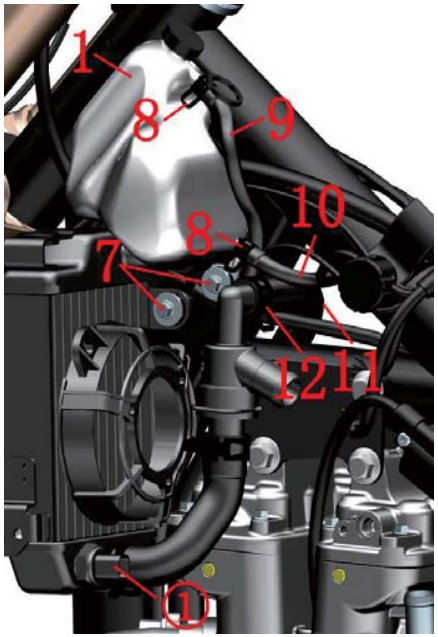
●【1】 used for Sliding clutch engine.【2】 used for Light clutch engine.



A



B



C

D

Fig.7 COOLING SYSTEM COMPONENT		Left cooling liquid tank component	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	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).

CAUTION:

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

●Do not disassemble the hoop with too strong force. If not, it will cause permanent deformation and lose elasticity, which will lead to leakage of cooling liquid.

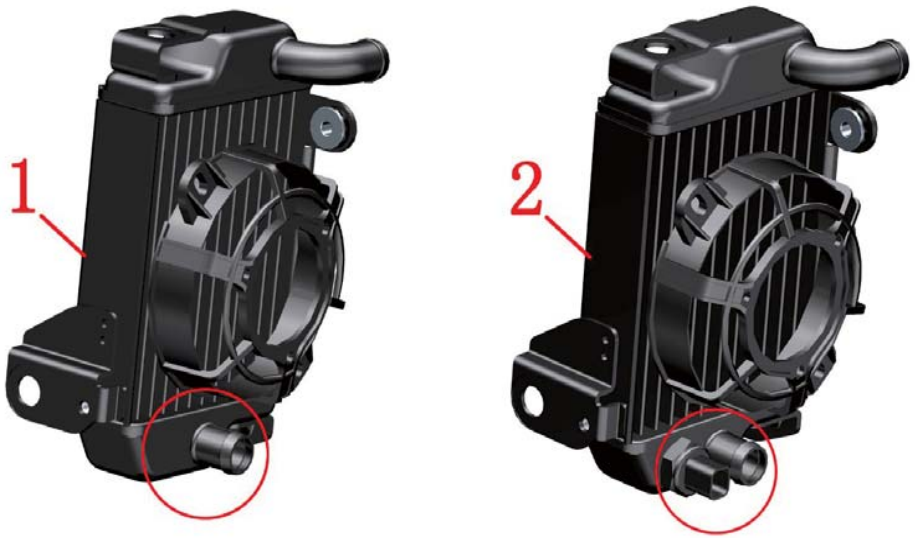
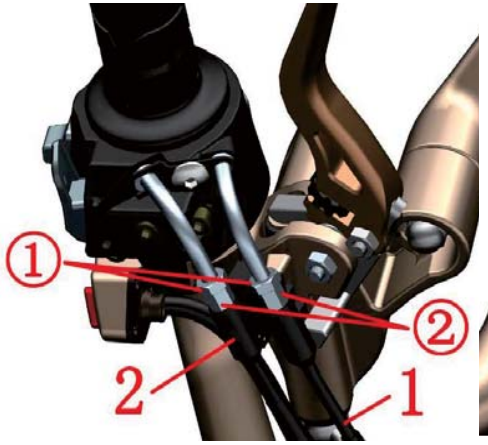
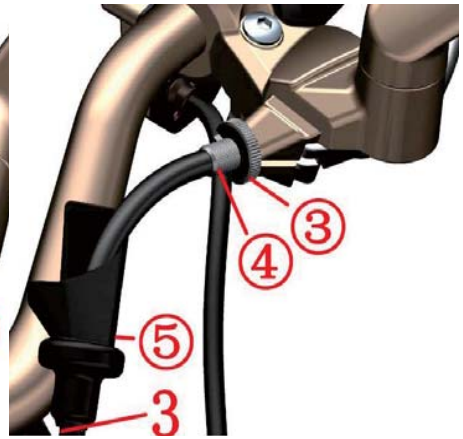


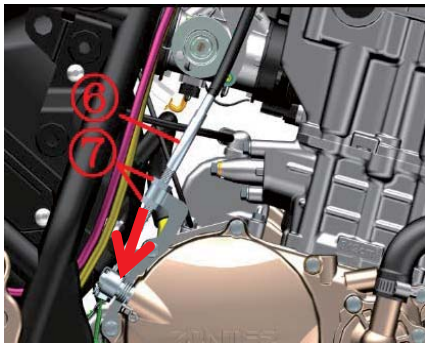
Fig.8 COOLING SYSTEM COMPONENT		Left cooling liquid tank component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1274200-277000	ZT310-R L, cooling liquid tank (without temperature control switch/ a single connector)	1	
2	1274200-004000	ZT310-R L, cooling liquid tank	1	

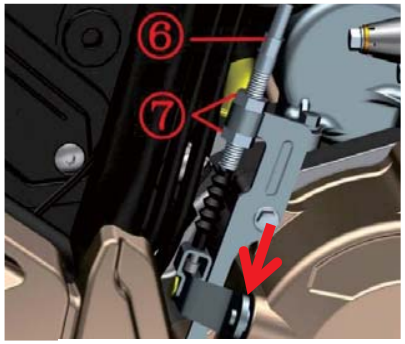
CAUTION:

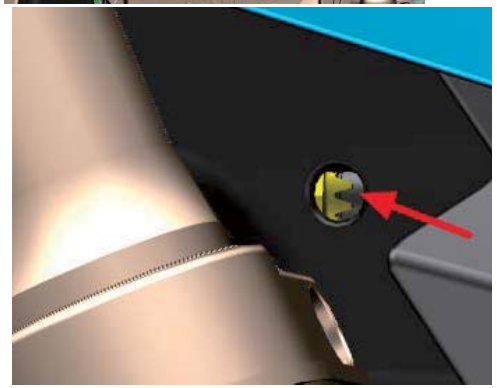
●The left water tank of the Bosch EFI version only has a temperature control switch less than that of the Delphi EFI, as shown in the figure above. The installation method and other components are the same











ZT310-R1 Clutch line(sliding clutch)

ZT310-R Clutch line

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	1154200-011000	ZT310-R1 Clutch line (sliding clutch)	1	sliding clutch
	1154200-001000	ZT310-R 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 rides the motorcycle and the motorcycle is upright. The other person inserts a PH2 type Phillips screwdriver (6mm in diameter) into the hole in the right side of the storage box, aligns the gear shape of the adjusting bolt, turns clockwise to increase the height, and rotates counterclockwise. Low beam height.

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 1500 to 1700 rpm.

●The clutch adjustment should be noted as follows:

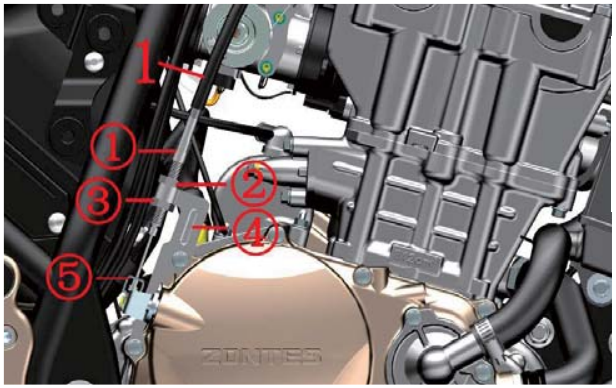
Excessive free travel can cause wear and malfunction of the clutch and gearshift mechanism.

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.

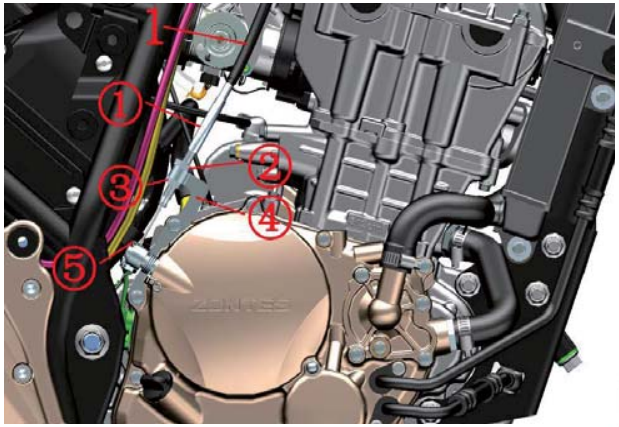
●Light height adjustment should be noted as follows:

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

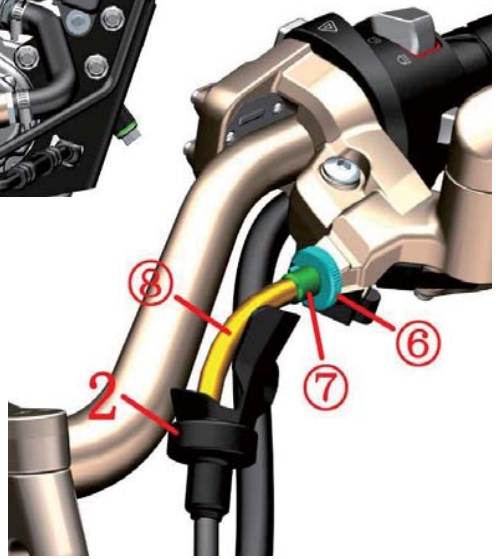


Fig.2 FRONT FORK COMPONENT		Change clutch line	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1154200-011000	ZT310-R1 Clutch line (sliding clutch)	1	sliding clutch
	1154200-001000	ZT310-R Clutch line		lighit clutch
2	1244200-046000	ZT310－V protective rubber sleeve	1	

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.

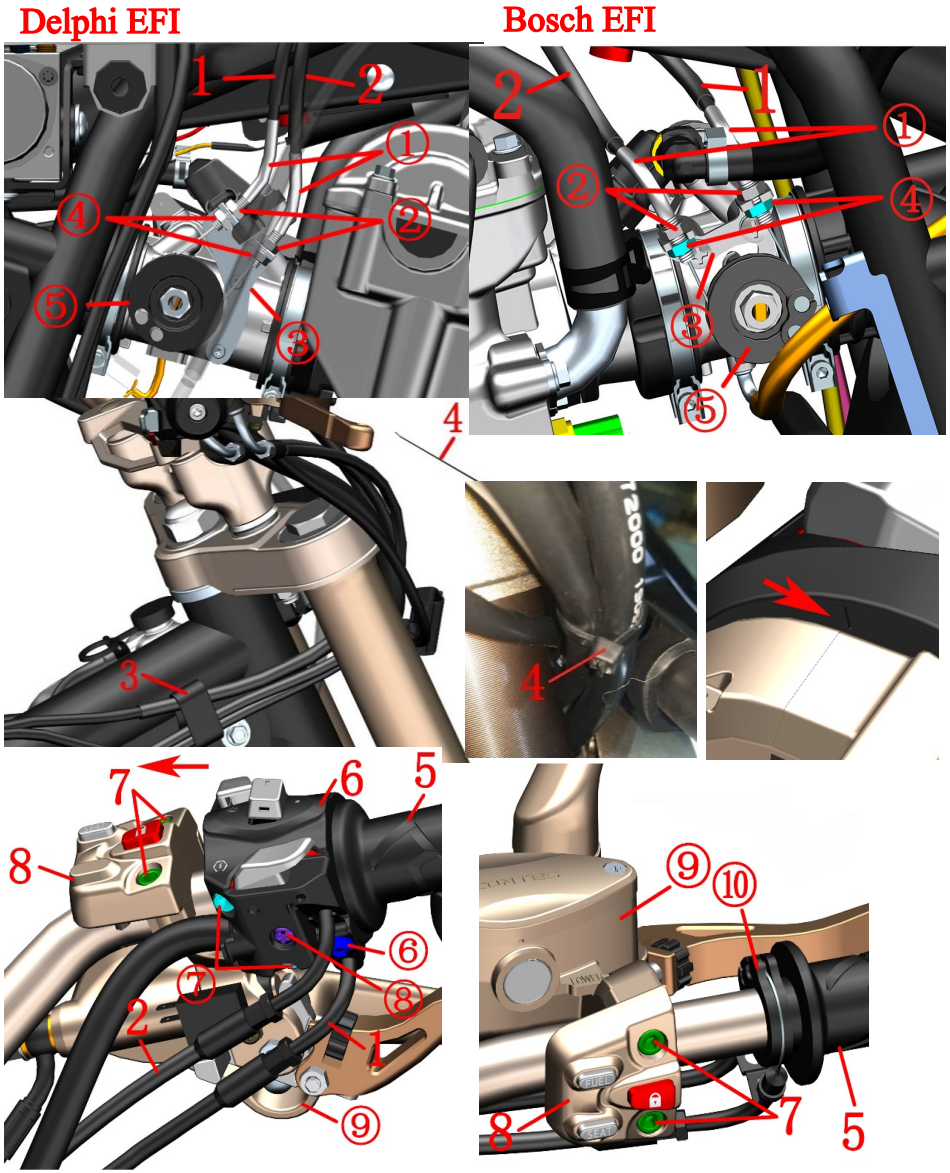


Fig.3 FRONT FORK COMPONENT		Replace the throttle line	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		Throttle refueling line	1	
2		Throttle return line	1	
3	1224200-016000	ZT310-R Line clamp	1	
4	1224100-051000	0 Flame retardant tie (black 2.5×100)	1	
5	1244100-042000	ZT250-R Right handlebar rubber sleeve	1	
6	1184200-185000	ZT310-V1 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.

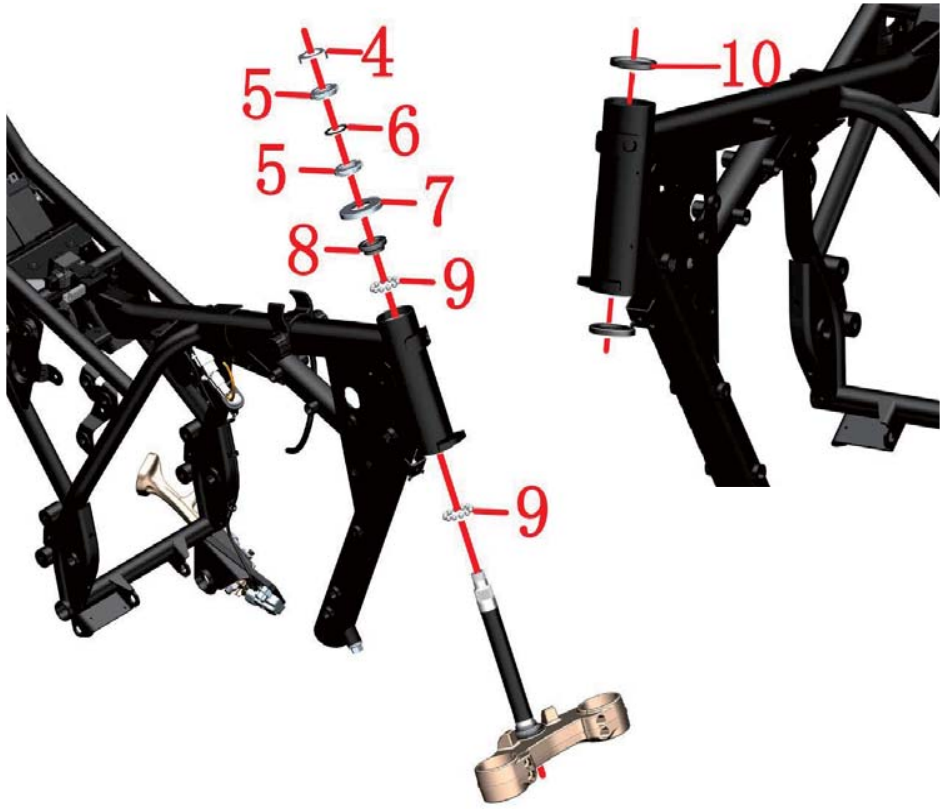


Fig.4 FRONT FORK COMPONENT		Steering adjustment	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-045000	ZT250-S Upper connection plate decorative nut	1	
2	1251500-050000	ZT250-S Upper connection plate gasket φ18.5×φ39×1	1	
3	1250205-023000	GB70.1 Hexagon M8×35 (color zinc)	2	
4	1134100-007000	ZT250-S 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 350 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.

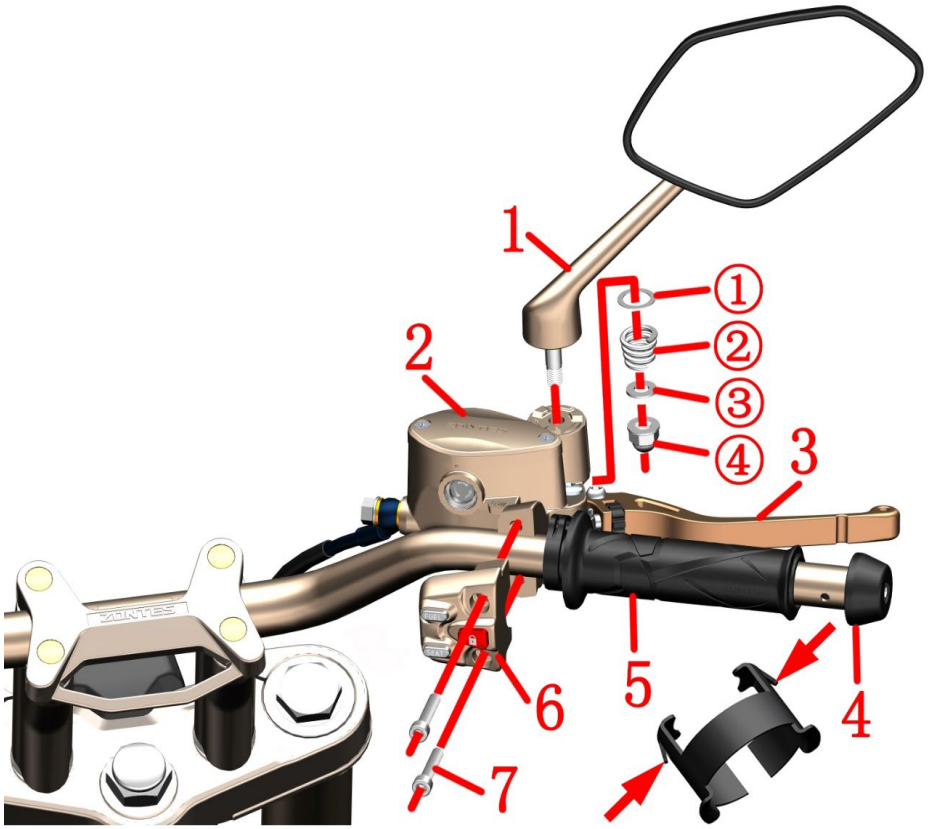
● Steering bearing

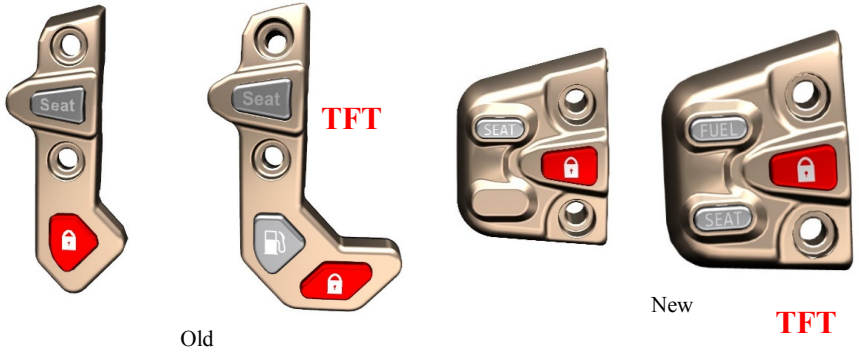
If the above operation still can not rule out excessive steering resistance or stuck as follows:

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:

●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.





Old New 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	1184200-084000	ZT310-R Right handleabar switch(TFT)	1	Stop selling
	1184200-147000	Second Generation Right Handlebar Switch (TFT)		New
	1184100-105000	ZT310-R Right handleabar switch		Stop selling
	1184200-153000	Second Generation Right Handlebar Switch (Liquid crystal)		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.

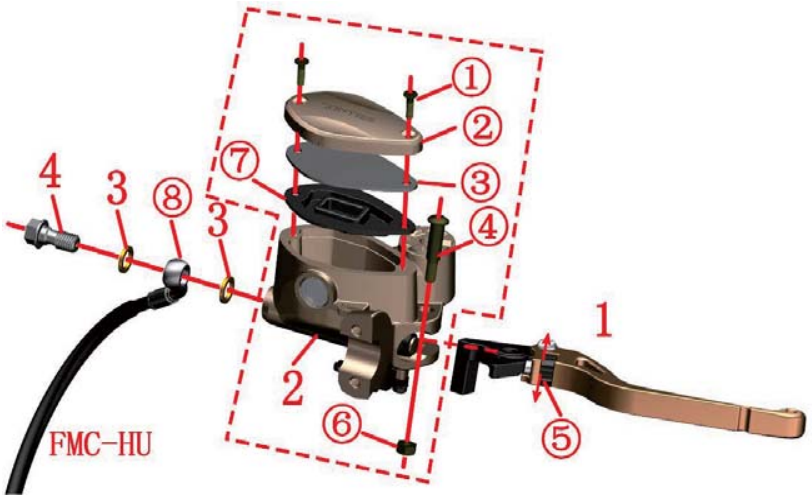


Fig.6 FRONT FORK COMPONENT		Add brake fluid, rocker adjustment	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1134100-032000	ZT250-R Right Hand Rocker (Machine)	1	
2	1100300-044000	Front brake main pump component (without handle)	1	
3	1251513-013000	Disc brake copper washer φ15×φ10.2×1.5	2	
4	1251100-112000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

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 bolt④ 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 cover②, the cover plate③, and the seal gasket ⑦.

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.

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.

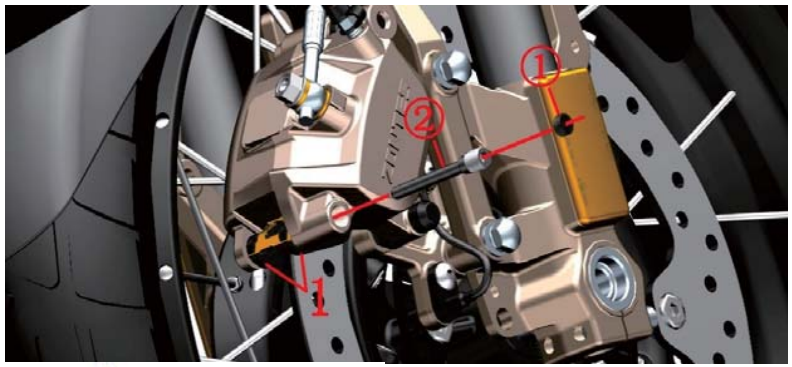
● If the liquid level is under "LOWER", check the brake disc wear and brake system for leaks.

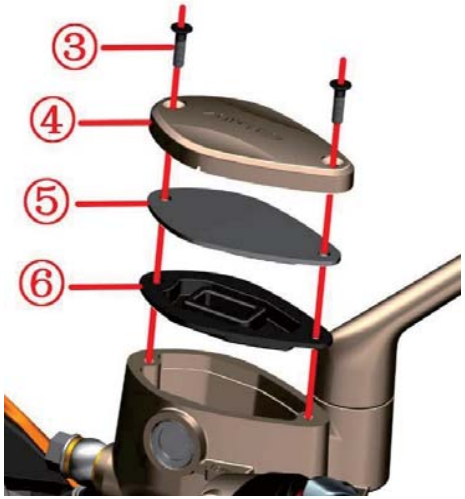
● If you swallow the brake fluid, contact poison control center or hospital immediately; if you get into your eyes, seek medical attention immediately after flushing with clean water.

● 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.





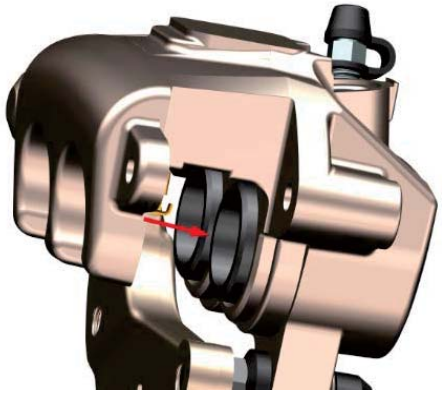


Fig. 7 FRONT FORK COMPONENT		Replace the front brake pads	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1100100-091000	ZT250-S front disc brake pads (H10)	1	After-sales
2	1100100-570000	ZT310-T front brake caliper mounting plate	1	

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.

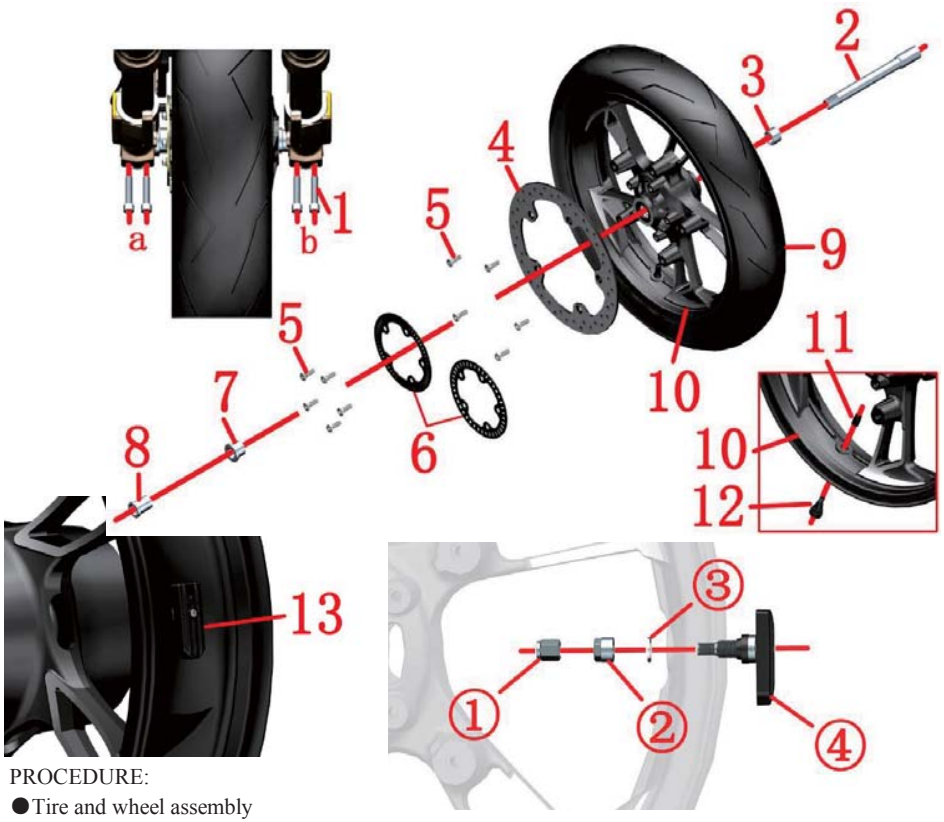


Fig.8 FRONT FORK COMPONENT		Front wheel component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-023000	GB70.1 Hexagon M8×35 (color zinc)	4	20N.m
2	1094100-033000	ZT250-R Front wheel hollow shaft	1	
3	1094100-008000	ZT250-R Front wheel left sleeve	1	
4	1100100-418000	ZT310-R1 Front brake disc (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	1094200-041063	ZT310-R Blue front rim (3.0×17)	1	【1】
	1094200-026000	ZT310-R Black front rim (3.0×17)		【2】
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.

●【1】The blue rim on the upper table is assembled on the blue motorcycle;【2】The black rim is assembled on the other color motorcycle.

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

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

●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.

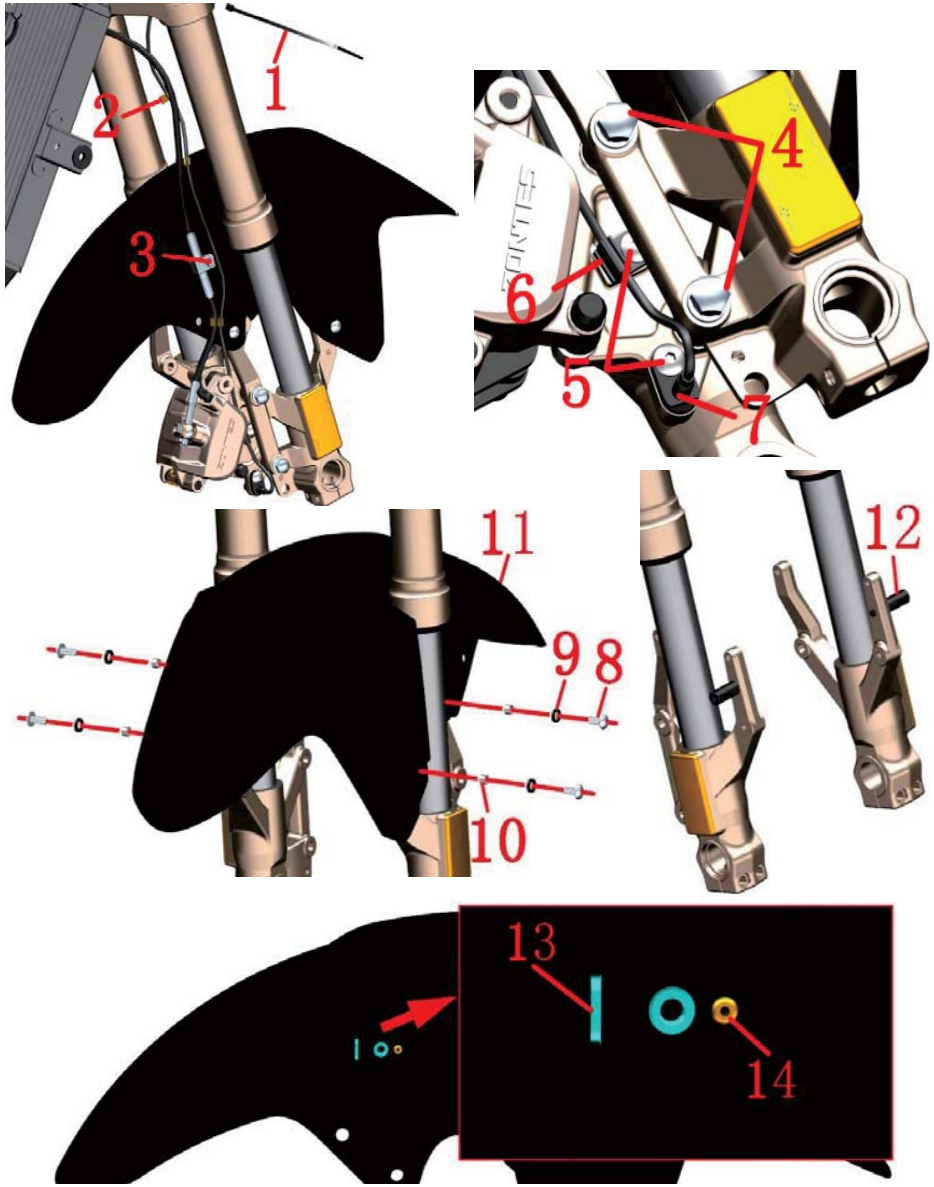


Fig.9 FRONT FORK COMPONENT		Front mudguard & wheel speed sensor component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	1	
2	1224100-044000	Wheel speed sensor clamp	3	
3	1251100-061093	M6×22 Hex flange face full thread bolt	1	
4	1251100-080094	Non-standard bolt M8×37 (color zinc)	2	
5	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
6	1224200-127000	ZT310－T front wheel WSS clamp	1	
7	1184200-045000	DF30wheel speed sensor	1	
8	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	4	
9	1244100-037000	Φ12×φ8.5×2.5 Circular buffer rubber	4	
10	1274100-018000	ZT250-S Muffler anti-hot plate bushing	4	
11		Front mudguard component		
12	1274200-035194	ZT310 Front mudguard liner(black zine)	2	
13	1274200-038000	ZT310-X Front mudguard front oil pipe fixing seat	1	
14	1250402-001091	GB12615φ3×10	1	

PROCEDURE:

●Wheel speed sensor

Pull out the plug of the wheel speed sensor(7); then remove the clamp(2). Cut the tie (1); pull out the wheel speed sensor from the wheel WSS clamp(6),then remove the bolt(3) and bolt(5) then remove the sensor(7).

●Front disc brake caliper

Remove the bolts(3) and (4) 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. Remove the bolt(5),then take off the clamp(6).

●Front mudguard

Hold the front mud plate(11) with your hand and then remove the 4 bolts(8) with the hexagonal tool and remove the bushing(10) and cushion rubber(9).

Remove the front mudguard(11).

The inside of the front mudguard can be protected with reticle or double-sided tape around the rivet(14), then the rivet is ground off with a small sander, and then the rivet(14) and the fixing seat(13) are removed.

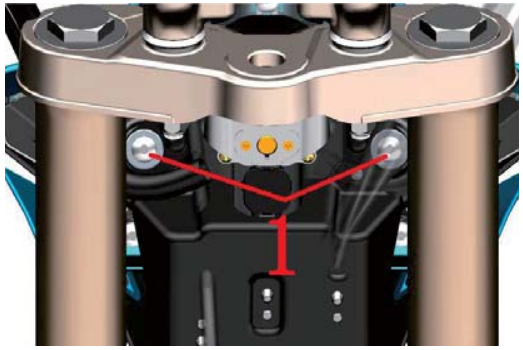
●Front mudguard liner

Remove the bushing(12) with a 10mm open end wrench.

CAUTION:

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

●The mudguard component has been included Front mudguard front oil pipe fixing seat(13) and Rivet(14). Rivets need to be assembled with professional tool.



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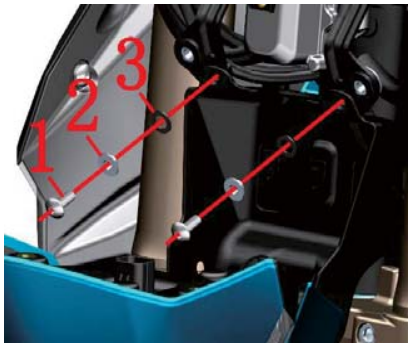

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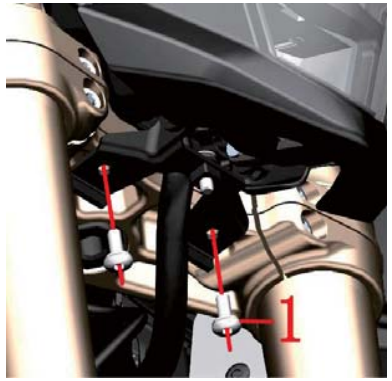

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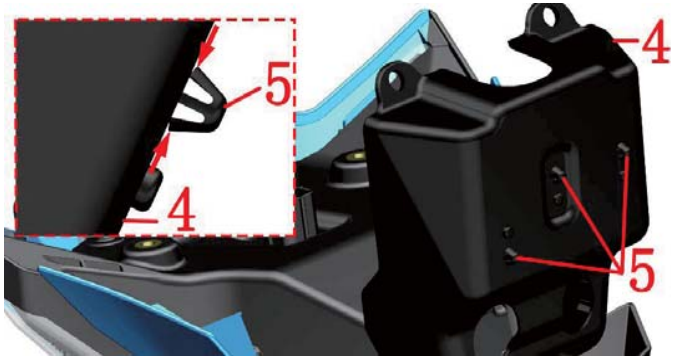


D

Fig.10 FRONT FORK COMPONENT		Head component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	7	
2	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	2	
3	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	2	
4	1224200-007000	ZT310-R storage box	1	
5	1224200-008000	ZT310-R line card nail	3	

PROCEDURE:

●Head assembly

After holding the head assembly, turn the left and right directions to the bottom respectively. Remove the bolts and remove the bolts (1), as shown in Figure A.

After holding the head unit, tilt it forward and remove all the cable connectors. Remove the bolt(1), bushing(2), and cushion rubber (3) as shown in Figure B.

Hold the head assembly and remove the bolt (1). As shown in Figure C, remove the head assembly.

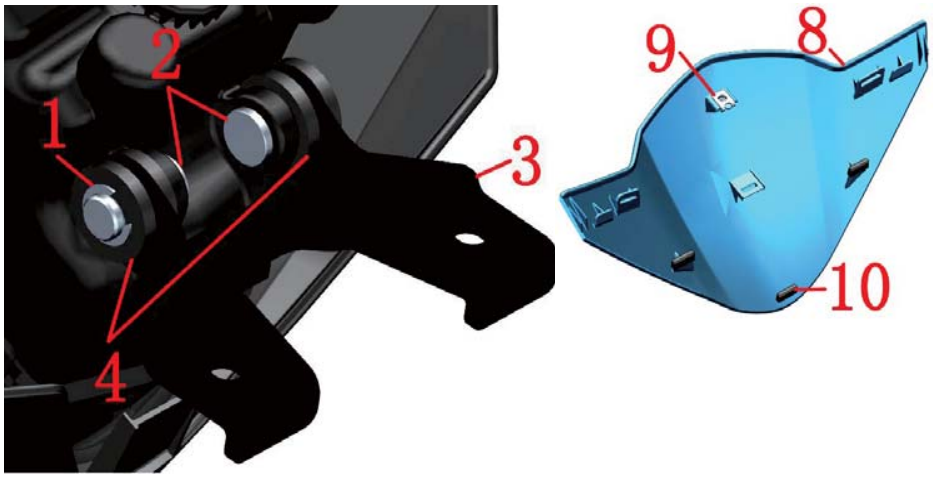
As shown in Figure D, use a pair of pliers to clamp in the direction of the arrow with a little force and then push the threaded clip (5) out of the storage box.

Remove the wire box(4) from the head assembly after removing the bolt(1), as shown in Figure E.

CAUTION:

●Pay attention to the force when removing the cable and unplugging the plug and the cable to avoid damage.

●The head unit should be supported during the disassembly process and protective measures should be taken to prevent scratching the lamp cover or paint surface.



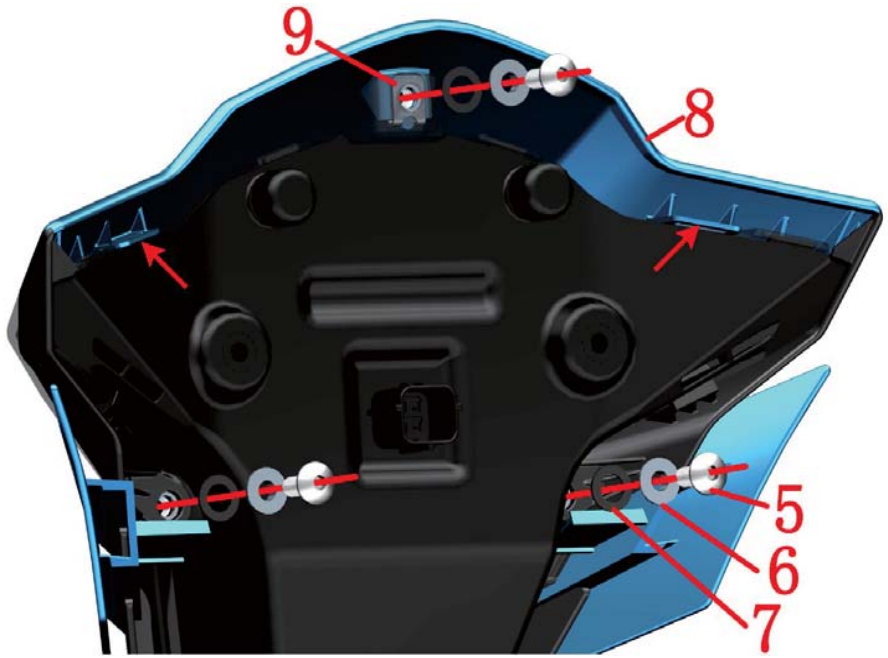


Fig.11 FRONT FORK COMPONENT		Headgear headlight component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1264100-006000	ZT250-S pedal circlip	2	
2	1274200-024000	ZT310-R headlight rotating pin	2	
3	1274200-007000	ZT310-R headlight lower bracket	1	
4	1240400-007000	HJ125-3 battery bracket cushion rubber ring	2	
5	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	3	
6	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	3	
7	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	3	
8	4044201-013064	ZT310-R headlights on the decorative cover (bright blue)	1	blue
	4044201-013041	ZT310-R headlights on the decorative cover (bright green)		green
	4044201-013061	ZT310-R headlights on the decorative cover (bright purple)		purple
	4044201-013021	ZT310-R headlights on the decorative cover (bright black)		black
	4044201-013011	ZT310-R headlights on the decorative cover (bright red)		red
	4044201-509031	ZT310-R headlights on the decorative cover (bright yellow)		yellow
9	1251300-063093	Splint M6×11×15 (environmental color)	1	
10	1244200-005000	ZT310-R hood cushion rubber	3	

PROCEDURE:

●Headlight bracket

Locate the notch of the circlip(1), push the circlip from the pin(2) with a tool, and then remove the circlip and pin.

After the headlight lower bracket assembly is removed, the cushion rubber ring(4) is separated from the headlight lower bracket(3).

●Headlight cover

Place the headlamp headlight assembly. It is recommended to place a soft cloth or sponge underneath to prevent scratching the headlight cover.

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

Use a small flat-blade screwdriver to insert the trim cover and the headlight gap (as indicated by the arrow in the lower left figure), open the decorative cover limit buckle, hold the headlight cover in one hand and fix it, push the top of the decorative cover with one hand and push forward. Separate the trim cove(8) from the headlight assembly.

Remove the splint nut(9) and the hood cushion rubber(10) from the trim cover(8).

CAUTION:

●Protect protective measures to prevent scratching the lampshade or paint finish.

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

Fig.12 FRONT FORK COMPONENT		Headgear headlight component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1174200-003000	ZT310-R headlights	1	
2	4044201-023052	ZT310-R hood (iron grey)	1	【1】
	4044201-023051	ZT310-R hood (dark gray)		【2】
	4044201-023021	ZT310-R hood (bright black)		【3】
3	4044201-015064	ZT310-R hood right decorative cover (bright blue)	1	blue
	4044201-015041	ZT310-R hood right decorative cover (bright green)		green
	4044201-015061	ZT310-R hood right decorative cover (bright purple)		purple
	4044201-015021	ZT310-R hood right decorative cover (bright black)		black
	4044201-015011	ZT310-R hood right decorative cover (bright red)		red
	4044201-511031	ZT310-R hood right decorative cover (bright yellow)		yellow
4	4044201-014064	ZT310-R hood left decorative cover (bright blue)	1	blue
	4044201-014041	ZT310-R hood left decorative cover (bright green)		green
	4044201-014061	ZT310-R hood left decorative cover (bright purple)		purple
	4044201-014021	ZT310-R hood left decorative cover (bright black)		black
	4044201-014011	ZT310-R hood left decorative cover (bright red)		red
	4044201-510031	ZT310-R hood left decorative cover (bright yellow)		yellow
5	1251300-063093	Splint M6×11×15 (environmental color)	2	
6	1244200-005000	ZT310-R hood cushion rubber	1	

PROCEDURE:

●Head cover assembly

Use a small flat-blade screwdriver to insert the hood and the headlight gap (as indicated by the arrow on the upper left). Open the buckle, hold the headlights in one hand and fix it. Pull the top of the head cover forward and pull the hood. The assembly is separate from the headlight assembly.

Remove the splint nut (5) from the headlight assembly.

Remove the hood cushion rubber (6) from the hood assembly.

Use a small flat-blade screwdriver to insert the hood and trim cover gap (as indicated by the arrow in the lower right corner) to open the buckle and separate the hood cover from the hood.

CAUTION:

●Protect protective measures to prevent scratching the lampshade or paint finish.

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

●【1】for bright blue motorcycle; 【2】for dark grey bright blue / bright green / bright purple / bright red /bright yellow motorcycle; 【3】for dark grey bright black motorcycle.

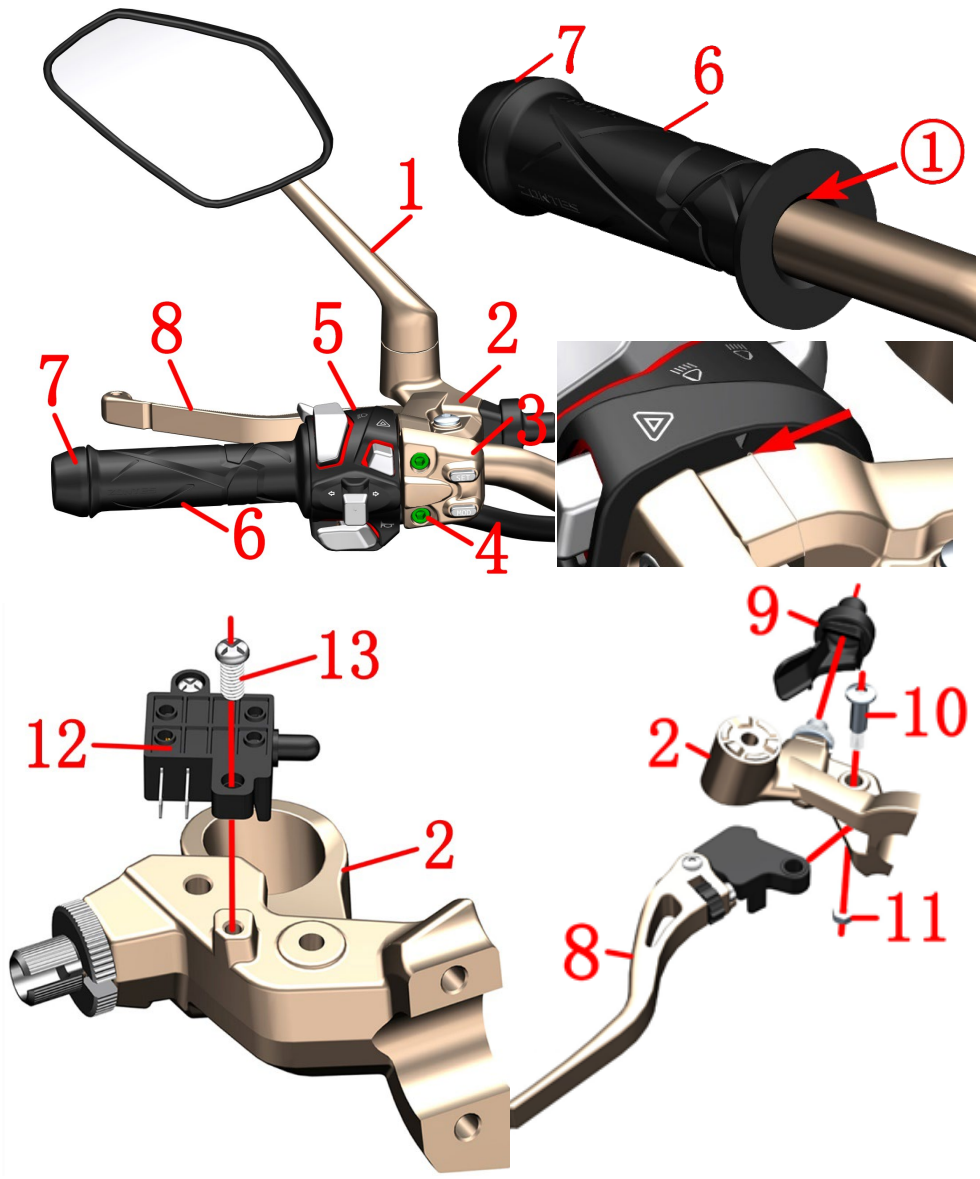


Fig.13 FRONT FORK COMPONENT		Left hand component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1194100-001000	ZT250-S left rear view mirror	1	
2	1244200-046000	ZT310－V left hand rocker arm component	1	
3	1184200-146000	Second Generation Left Handlebar auxiliary Switch (TFT)	1	
4	1250205-031091	GB70.1M6×30 (stainless steel)	2	
5	1184200-184000	ZT310-V1 left handlebar switch	1	
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 protective rubber sleeve	1	
10	1251100-198000	Non-standard bolt M6×13－φ8×20	1	
11	1251300-073000	GB/T6185 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 grip between 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). Use a blow gun and move the outer sleeve to remove the left hand grip(6).

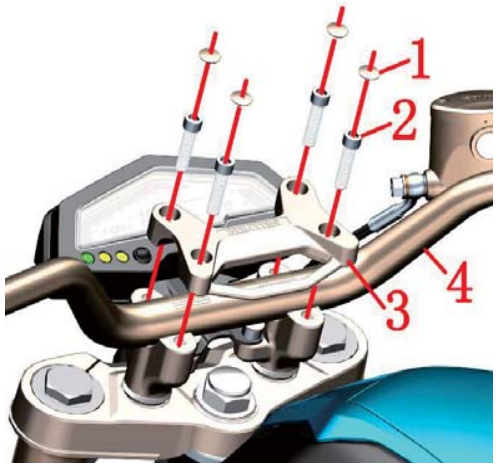
●Replace the left hand rocker arm and clutch switch

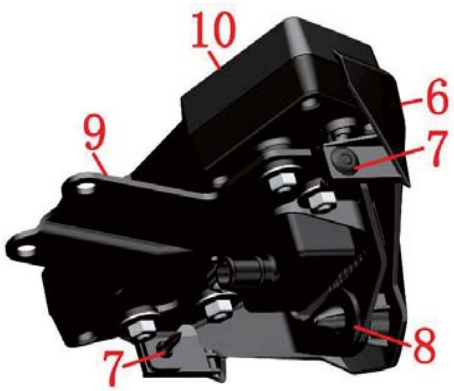
Fix the bolt(10) with a hexagonal tool, then remove the nut(11) with a sleeve or a wrench, remove the bolt(10) and then remove the left hand rocker arm(8).

First unplug the clutch switch, then remove the bolt (13) with a Phillips screwdriver and remove the clutch switch (12). The rotation adjustment nut can adjust the distance between the rocker arm and the left hand rubber sleeve to adapt to the feel of different drivers.

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.





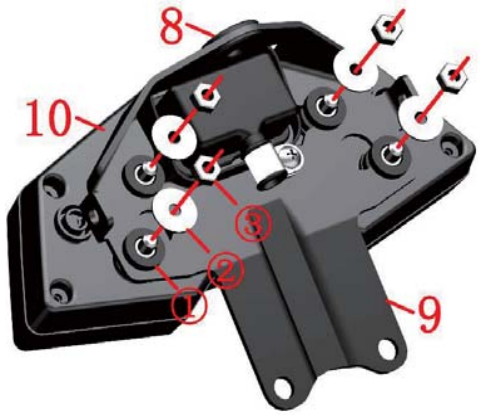


Fig.14 FRONT FORK COMPONENT		Direction handle&Instrument	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044102-001051	ZT250-SM8 bolt decorative buckle	6	
2	1250205-023000	GB70.1 Hexagonal M8×35 (environmental color zinc)	4	
3	1134200-005000	ZT310-R direction press block (homemade)	1	
4	1134200-003000	ZT310-R direction	1	
5	1250205-040095	GB70.1 Hexagon M8×16 (environmental color zinc)	2	
6	1020442-029000	ZT310-R instrument decorative cover	1	
7	1224100-010000	ZT250-S expansion nail	2	
8	1244100-002000	ZT250-S side cover round glue	1	
9	1274200-031000	ZT310-R instrument bracket	1	
10	1164200-002000	ZT310-R electronic instrument (with gear display)	1	

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).

●Instrumentation components

Locate and remove the meter cable connector; remove the trim clip(1); remove the bolt (5).

●instrument decoration cover

Use a small Phillips screwdriver to press down the center of the expansion pin and remove the expansion pins (7) on both sides.

Hold the instrument bracket in one hand and pull out the trim cover(6) with one hand and pull it out.

●Instrument bracket

After fixing the meter(10), remove the bolts③ and remove the spacers② with the sleeves.

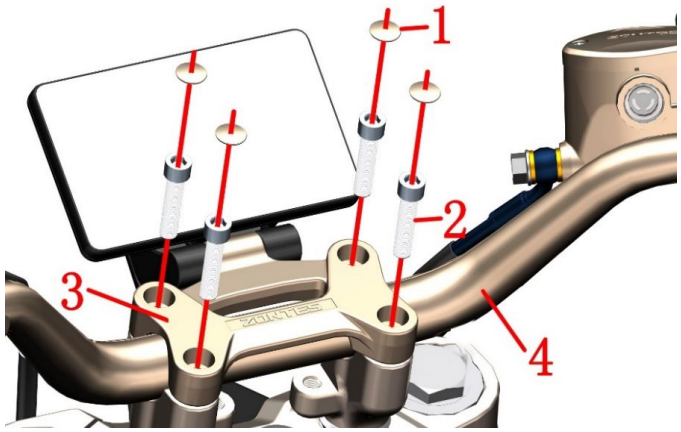
Separate the meter bracket assembly from the meter.

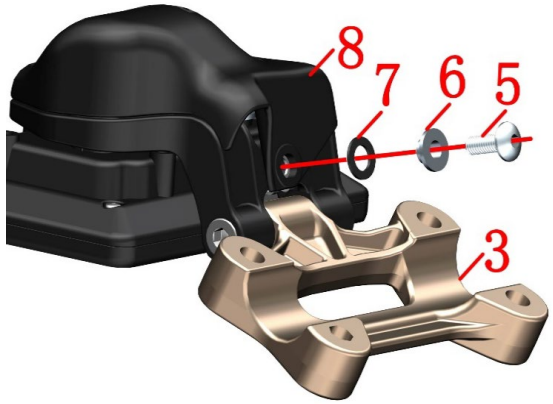
Remove the cushion rubber①, side cover round rubber(8) from the meter holder(9).

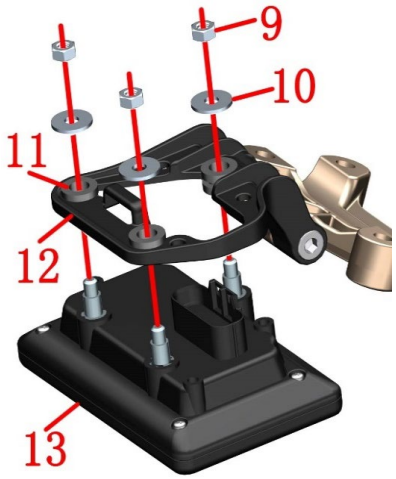
CAUTION:

●Protect protective measures to prevent scratching the appearance of the instrument case and the decorative cover.

●Pay attention to the strength when opening the decorative cover clip to prevent the staple from breaking due to excessive force.







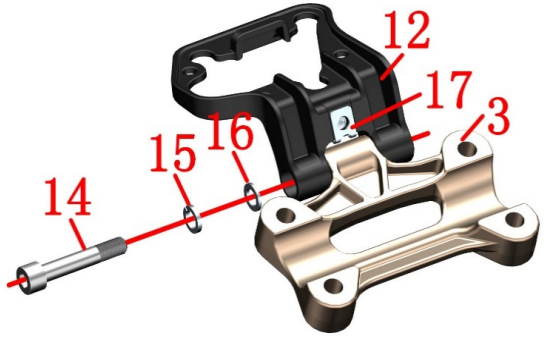


Fig.15 FRONT FORK COMPONENT		Direction handle&TFT Instrument	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044102-001051	ZT250-SM8 bolt decorative buckle	4	
2	1250205-023000	GB70.1 Hexagonal M8×35	4	
3	1134200-005000	ZT310-R direction press block (homemade)	1	
4	1134200-003000	ZT310-R direction	1	
5	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	1	
6	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	1	
7	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	1	
8	1224200-128000	ZT310-R1 instrument decorative cover	1	
9	1250301-020093	GB6170M6（environmental color）	3	
10	1250502-010093	GB96.1φ6（environmental color）	3	
11	1244200-092000	ZT310 TFT instrument cushioning rubber	3	
12	1274200-169000	ZT310-R1 instrument bracket（TFT instrument）	1	
13		ZT310 TFT instrument	1	
14	1250205-006091	GB70.1M8×45（White Zinc）	1	
15	1250501-007093	GB93φ8（environmental color）	1	
16	1251500-081000	Flat washer φ13×φ8.2×1.5（environmental color）	1	
17	1251300-063093	Splint M6×11×15 (environmental color)	1	

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).

●Instrumentation components

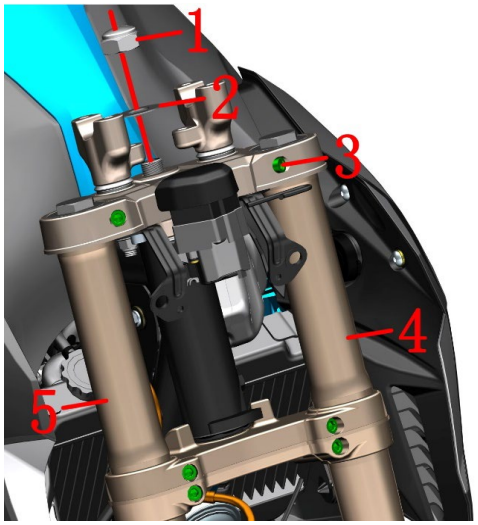
Flip theInstrumentation components forward, remove the bolt (5), remove the flanging bushing (6) and cushioning rubber (7). Push the instrument decorative cover (8) forward and remove it.

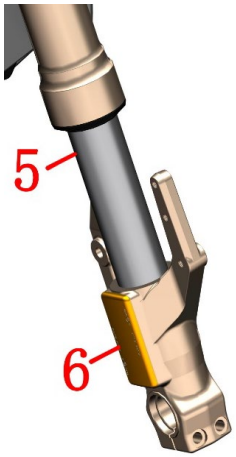
Locate and unplug the meter cable connector. Remove the nut (9) separately, remove the gasket (10) and remove the instrument (13). Be careful to protect the meter screen.

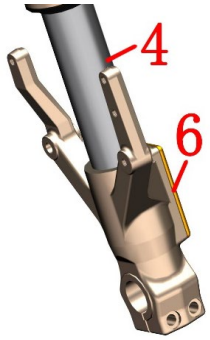
Instrument Bracket Assembly Remove the bolt (14) and remove the spring washer (15) the flat washer (16). The instrument bracket (12) is separated from the pressure block (3) and the splint nut (17) is removed.

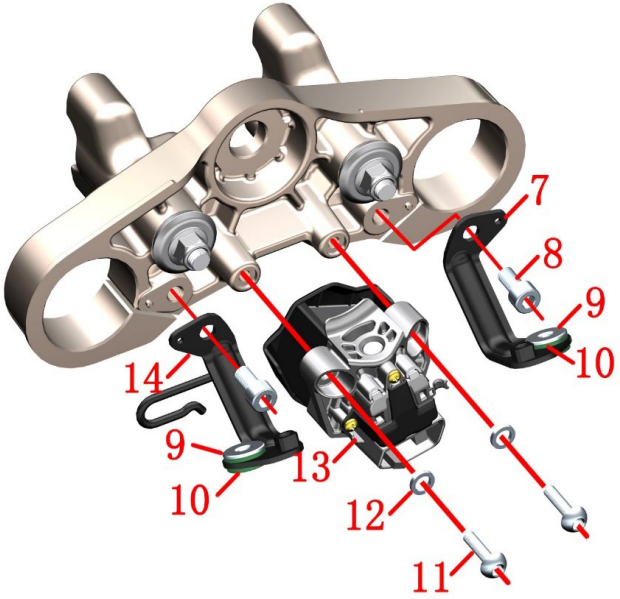
CAUTION:

●The motorcycles produced before May 18,2019 use 40T inductive gear rings.And then use 60T. Bosch EFI and Delphi EFI instruments cannot be mixed and used. Please confirm the status of your bike before purchasing.









The old faucet lock can be replaced as new model.

Old

New

Fig.16 FRONT FORK COMPONENT		Front shock absorber, upper plate component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-045000	ZT250-S upper plate decorative nut (chrome plated)	1	
2	1251500-050000	ZT250-S upper plate gasket φ18.5×φ39×1	1	
3	1250205-023000	GB70.1 Hexagonal M8×35 (environmental color zinc)	6	25N.m
4		Front left shock absorption	1	
5		Front right shock absorption	1	
6	1174100-001000	ZT250-S reflector	2	after-sales
7	1274200-008000	ZT310-R headlights upper right bracket	1	
8	1250205-040095	GB70.1 Hexagon bolts M8×16(environmental color zinc)	2	
9	1251700-059093	Flanging bushing φ6.4×φ9×8+φ18×2	2	
10	1240400-007000	HJ125-3 battery bracket rubber circle	2	
11	1251100-121093	Non-standard bolt M6×25 (environmental color)	2	
12	1250501-007093	GB93φ8（environmental color zinc）	2	
13	1184200-034000	ZT310-R electronic faucet lock (DC)	1	Old
	1184200-139000	ZT310 faucet lock (electromagnetic) assembly		New
14	1274200-006000	ZT310-R headlights upper left bracket	1	

PROCEDURE:

●Uplink board assembly

Locate the faucet lock plug and remove it; remove the nut(1) and the shims(2). Remove the upper plate bolt(3).

●Front left and right shock absorption

Remove the bolts(3) of the lower plate, 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 (4) and the right shock absorber(5). under. Remove the upper plate assembly.

●Reflecting film

Reflective sheets are sold separately for sale (no replacement shock absorption). 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.

●Headlight bracket

First remove the bushing(9) and cushion rubber (10). Remove the bolts(8) and remove the upper left bracket (14) and the upper right bracket (7).

●faucet lock

Remove the bolt (11) and the spring washer(12) and the faucet lock (13).

CAUTION:

●Old faucet lock can be replaced as new models.

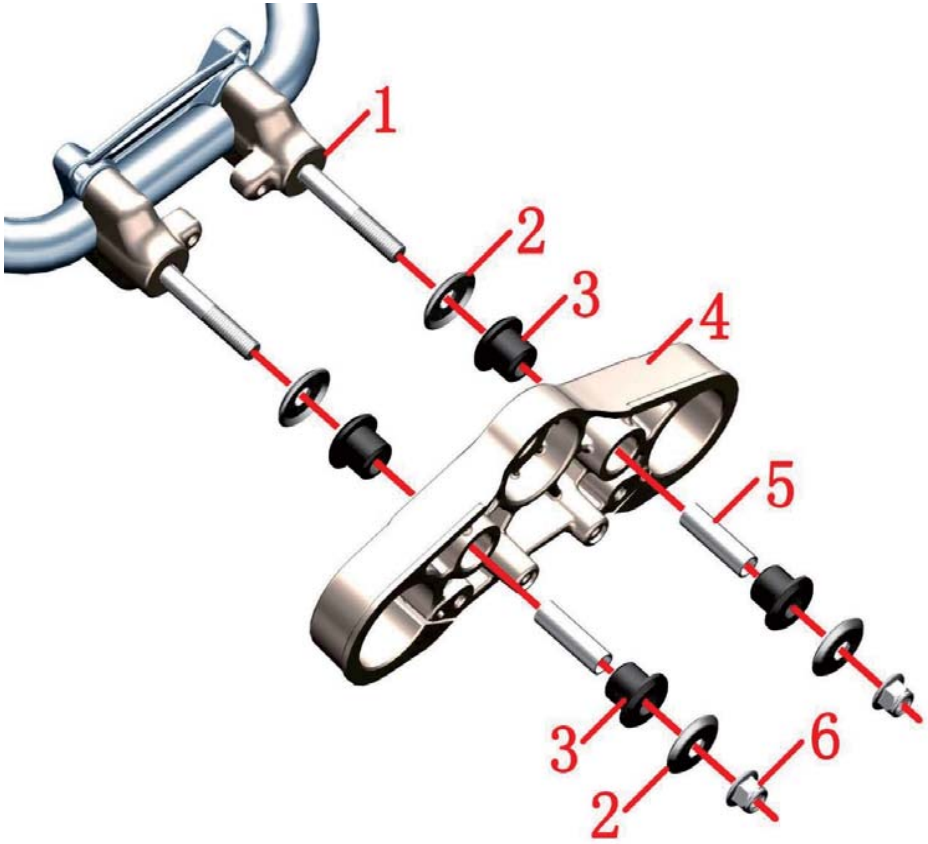


Fig.17 FRONT FORK COMPONENT		Uplink plate, direction handle block component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1134200-012000	ZT310-R direction pad component	2	
2	1274200-018000	ZT310-R upper plate gasket	4	
3	1244200-008000	ZT310-R upper plate buffer rubber	4	
4	1134200-004000	ZT310-R upper plate	1	
5	1251700-065000	ZT310-R bushing φ10×φ12×41	2	
6	1251300-057093	Non-standard nut M10×1.5 (Dacro)	2	

PROCEDURE:

●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(6) and remove the gasket(2), cushion rubber(3), and bushing(5).

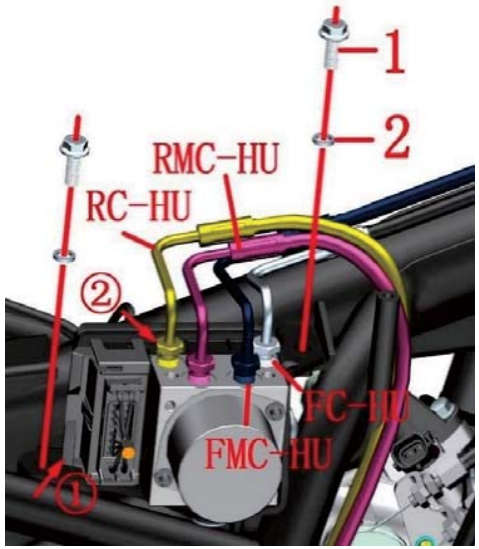
Remove the upper plate(4).

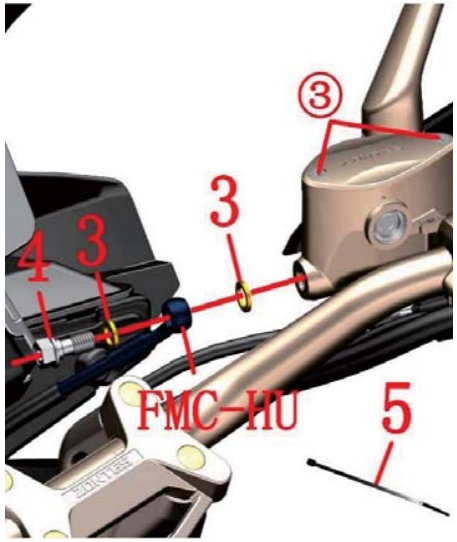
The spacer(1), the upper clamp and the direction handle are disassembled.

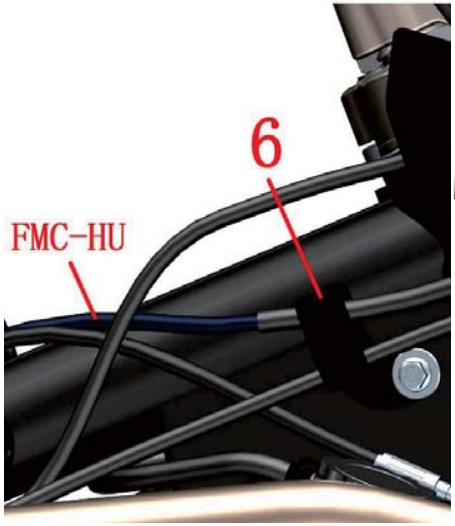
CAUTION:

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

●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.







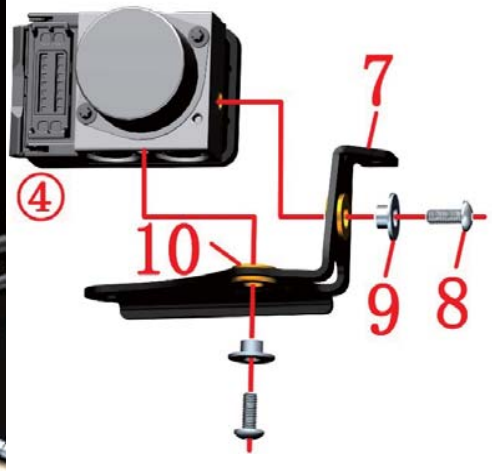


Fig.18 FRONT FORK COMPONENT		ABS brake system-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251112-001093	6×16 Hex flange bolt（environmental color zinc）	2	
2	1250501-010000	GB93 φ6 (environmental color)	2	
3	1251513-013000	Brake brake tubing copper washer φ15×φ10.2×1.5	2	
4	1251100-112000	Disc brake 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.The torque of the nut ② is 18 N.m.

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.

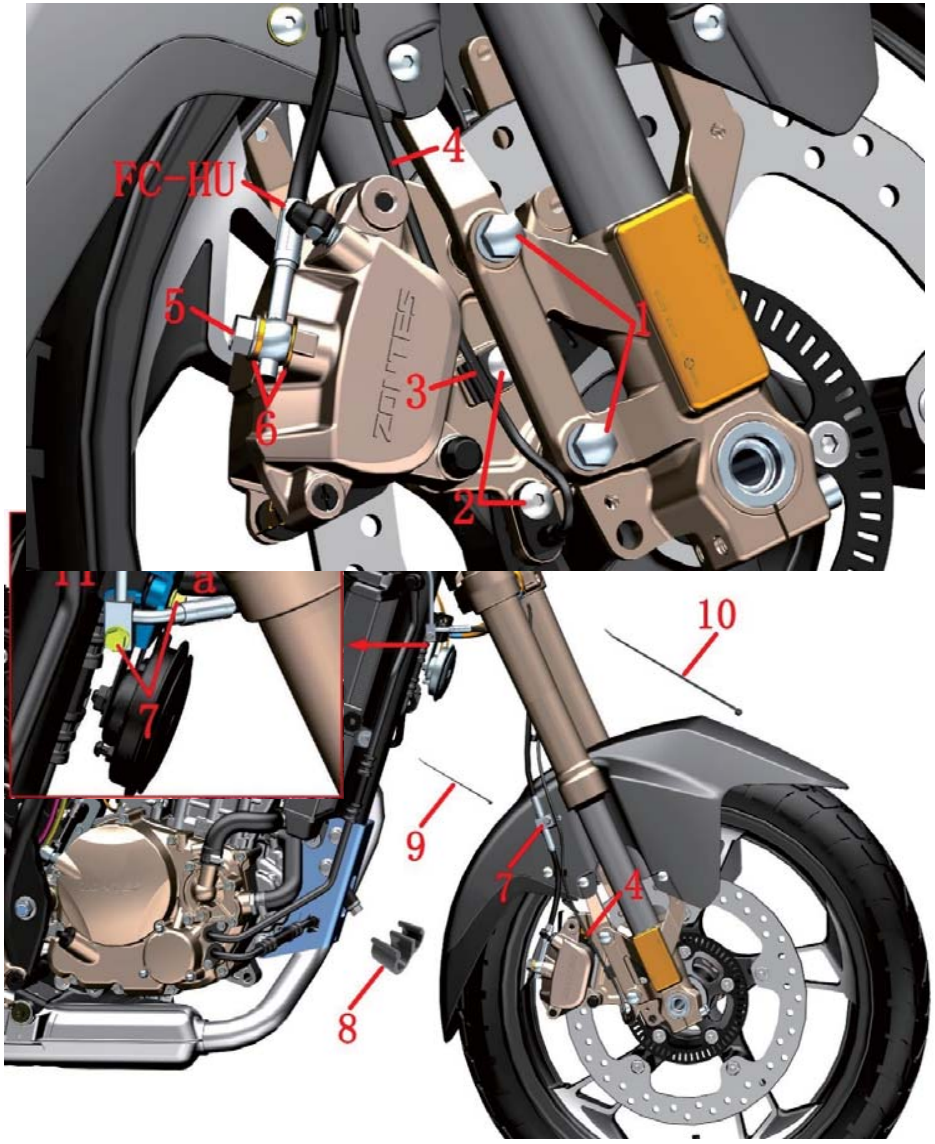


Fig.19 FRONT FORK COMPONENT		ABS brake system-2	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-080094	Non-standard bolt M8×37 (environmental color zinc)	2	
2	1251100-101000	Non－standard bolt M6×12 (304 stainless steel)	2	
3	1224200-127000	ZT310-T front wheel WSS wire clip	1	
4	1184200-045000	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.

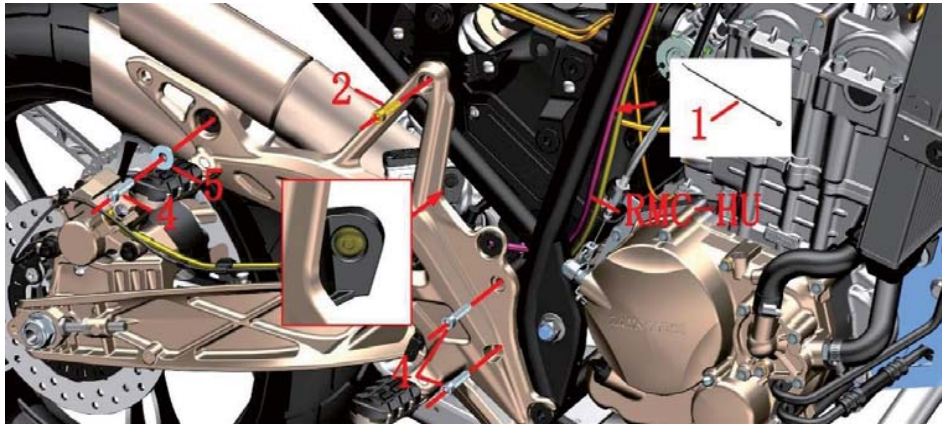
CAUTION:

●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.

●The torque of the nut ② is 18 N.m.

● 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.



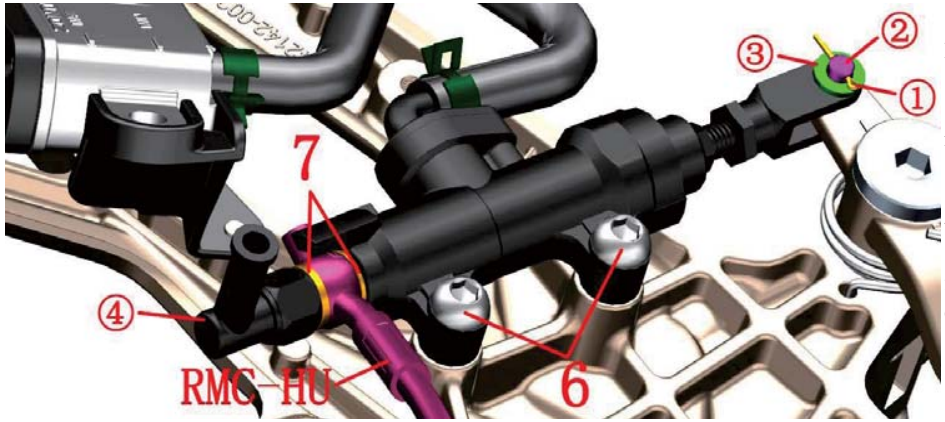


Fig.20 FRONT FORK COMPONENT		ABS brake system-3	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	1	
2	1250205-034093	GB70.1 Hexagonal M8×30 (environmental color zinc)	1	
3	1224100-010000	ZT250-S expansion nail	1	
4	1250205-023000	GB70.1 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.

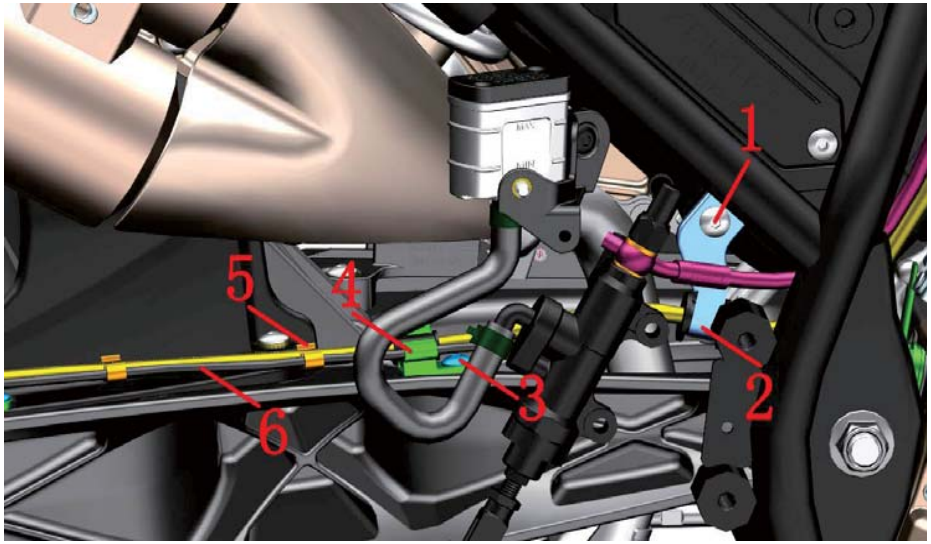
Remove the bolt (8), remove the bushing (9), rubber pad (10), and remove the oil cup bracket (11) from the right footrest bracket.

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.



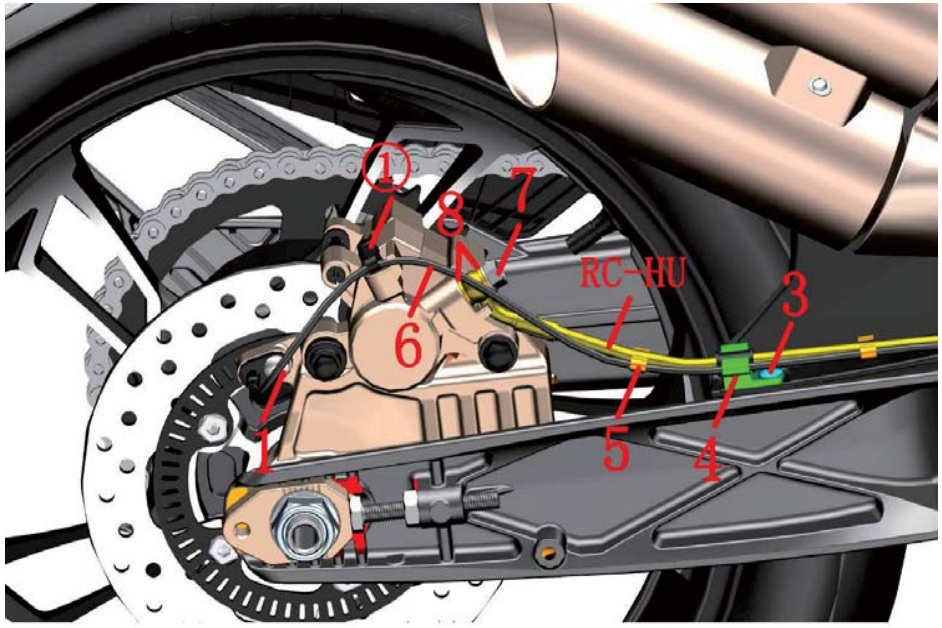


Fig.21 FRONT FORK COMPONENT		ABS brake system-4	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
2	1274200-034000	ZT310－R oil pipe clamp of rear disc brake	1	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
4	1224200-003000	ZT310－Z rear disc brake oil tube cleat	2	
5	1224100-044000	Wheel speed sensor clamp	3	
6	1184200-045000	DF30 wheel speed sensor	1	
7	1251100-112000	Disc brake tubing bolt M10×1-22	1	
8	1251513-013000	Brake brake tubing copper washer φ15×φ10.2×1.5	2	

PROCEDURE:

●Wheel speed sensor

Remove the wheel speed sensor cable connector and pull it out. Remove the 3 pieces of wheel speed sensor clamp (5).

Pull the sensor wire out of the 2 disc brake oil tubing clamps (4).

Remove one bolt (1) at the caliper, remove the vent rubber cap ① and remove the sensor cable.

●Disc brake pipe clamp

Remove the bolt (1) at the bottom right of the air filter and remove the tubing clamp (2).

● rear disc brake caliper

Refer to the steps of removing the rear wheel assembly in the front, remove the rear axle nut and the right chain adjuster, and then retract the rear axle to the left to remove the rear disc brake caliper assembly. Put the rear axle, right chain adjuster and rear axle nut back into the rear fork.

●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.

Pull the RC-HU tubing out of the 4 disc brake tubing clamps (4). Remove the 2 bolts (3) and remove the tubing clamp (4).

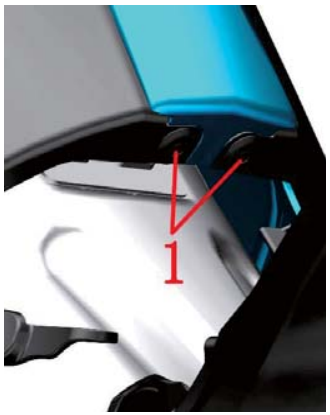
After wearing the waterproof gloves, remove the bolts (7) with a 12# sleeve; remove the copper washers (8). If you need to replace the RC-HU tubing, it is recommended to replace the two copper washers (8) at the same time; the bolts (7) can be replaced if they are not damaged.

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.



A

B

C

D

E

Fig.1 FUEL TANK COVER COMPONENT		Fuel tank middle cover component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S expansion nail	4	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	

PROCEDURE:

●Middle cover assembly

Use a small Phillips screwdriver to push down the center of the expansion pin and remove the expansion pin(1) from the rear of the middle cover assembly (Figure A).

Turn the front of the car to the left and remove the expansion pin(1) on the right side of the front of the middle cover (Figure B).

Turn the front of the car to the right, open the sub tank cover and remove the expansion pin(1) on the left side of the front part of the middle cover (Fig. C).

Short press the unlock button " " . After the power-on self-test is completed, short press " " to open the fuel tank cover.

Remove the bolt(2) (Figure D).

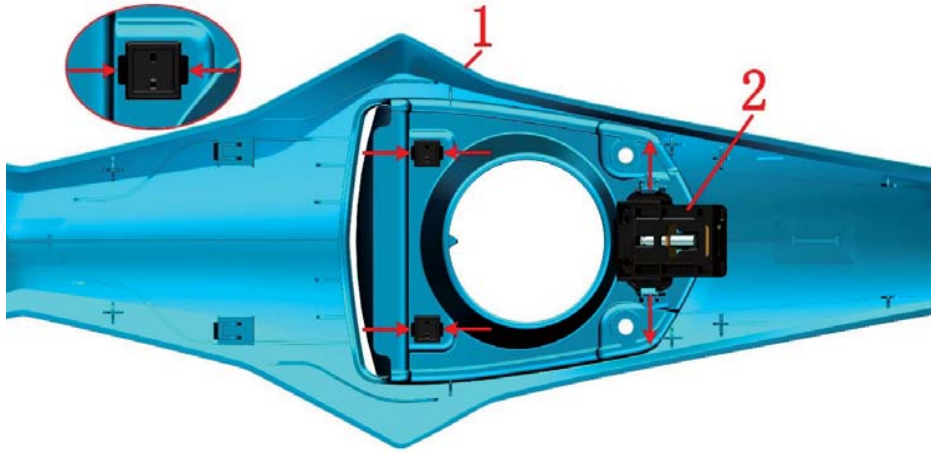
Grasp the head of the middle cover assembly and pull it up; grasp the tail of the middle cover assembly and pull it up.

Locate the fuel tank lock cable plug (Figure E) on the right side cover and the rear of the tank liner and remove the middle cover assembly.

CAUTION:

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

● When removing the buckle, pay attention to the strength to prevent damage to the buckle.



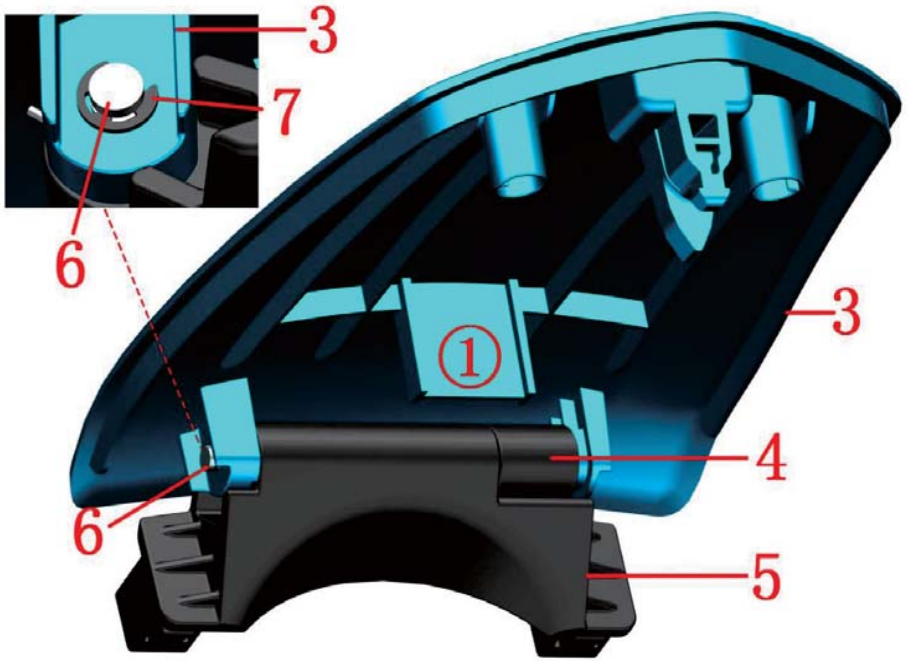


Fig.2 FUEL TANK COVER COMPONENT		Fuel tank cover, fuel tank cover, fuel tank lock	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044201-018064	ZT310-R fuel tank middle cover (bright blue)	1	blue
	4044201-018041	ZT310-R fuel tank middle cover (bright green)		green
	4044201-018061	ZT310-R fuel tank middle cover (bright purple)		purple
	4044201-018035	ZT310-R fuel tank middle cover (titanium matte)		black
	4044201-018011	ZT310-R fuel tank middle cover (bright red)		red
	4044201-514031	ZT310-R fuel tank middle cover (bright yellow)		yellow
2	1184200-002000	ZT310 electronic fuel tank lock	1	
3	4044201-019064	ZT310-R fuel tank cover (bright blue)	1	blue
	4044201-019041	ZT310-R fuel tank cover (bright green)		green
	4044201-019061	ZT310-R fuel tank cover (bright purple)		purple
	4044201-019035	ZT310-R fuel tank cover (titanium matte)		black
	4044201-019011	ZT310-R fuel tank cover (bright red)		red
	4044201-515031	ZT310-R fuel tank cover (bright yellow)		yellow
4	1224100-014000	ZT250-S fuel tank cover rotary damping	1	
5	1274100-021000	ZT250-S fuel tank cover rotating bracket	1	
6	1274100-090000	ZT250-S fuel tank cover rotating shaft	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:

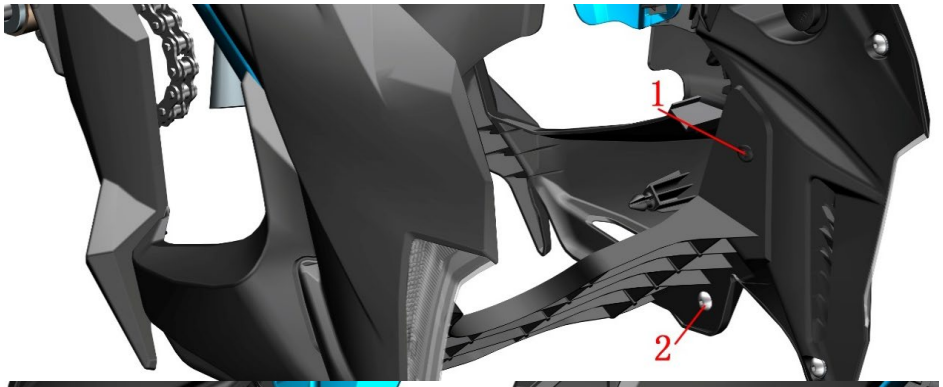
●The material should be protected during the disassembly process to prevent damage to the paint surface.

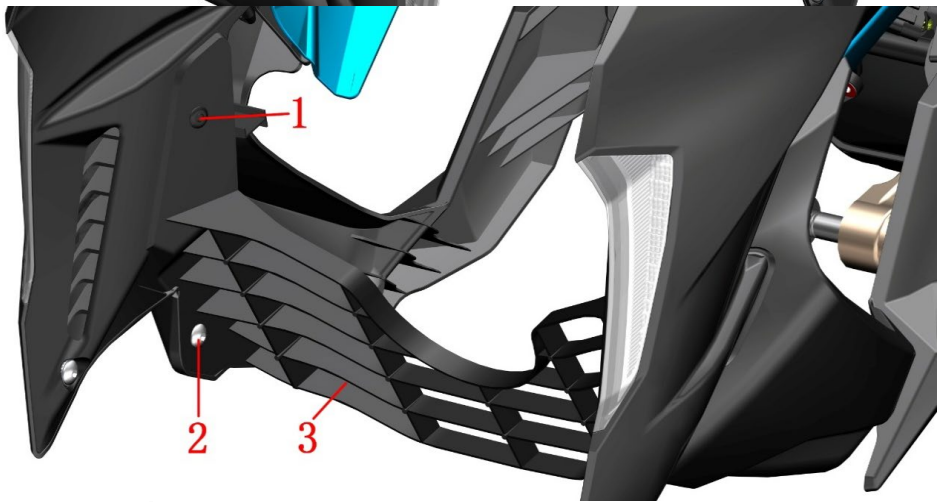
●When removing the buckle, pay attention to the strength to prevent damage to the buckle.

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

● When change fuel tank cover, pay attention to whether the length of the process clip① 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.





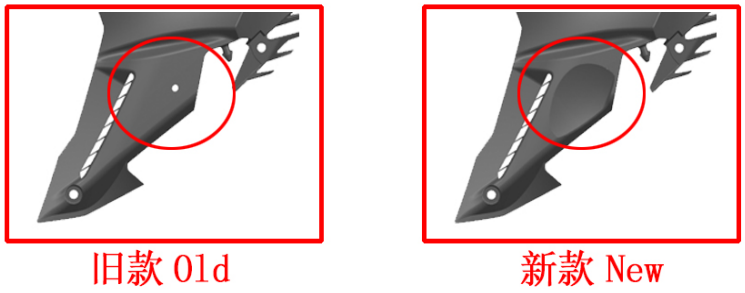


Fig.3 FUEL TANK COVER COMPONENT		Decorative cover grill	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S expansion nail	2	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
3	1224200-053000	ZT310-R decorative cover grill	1	

PROCEDURE:

●Furniture cover grille

Remove the expansion screw(1) and the bolt(2).

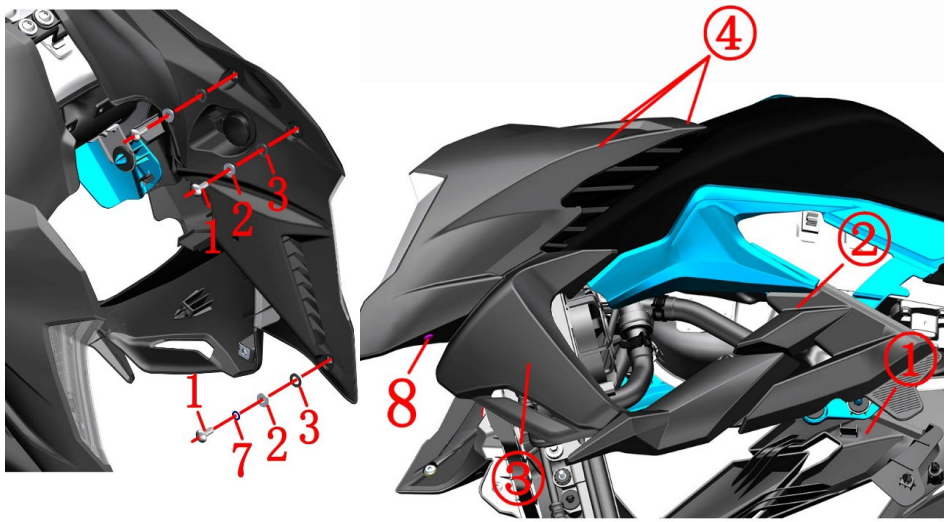
Remove the decorative cover grille in one hand, and grasp the bottom of the fuel tank trim cover with one hand and pull it out slightly, and remove the trim cover grille (3).

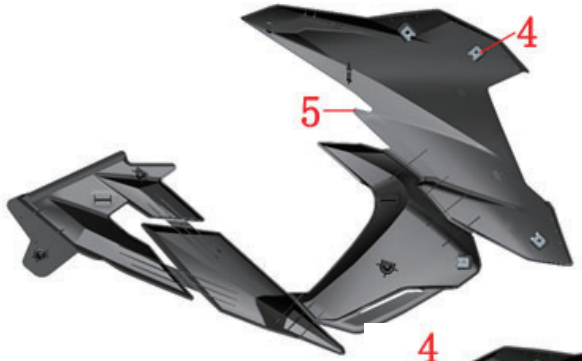
Starting in June 2021, the expansion nails and bolt mounting holes of the decorative cover grille have been removed from the rear cover of the new fuel tank decorative cover, and the decorative cover grille has been removed for subsequent production motorcycles.

CAUTION:

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

●Figure a is the unmounted state; Figure b is the assembled state; Figure c is the disassembled state.





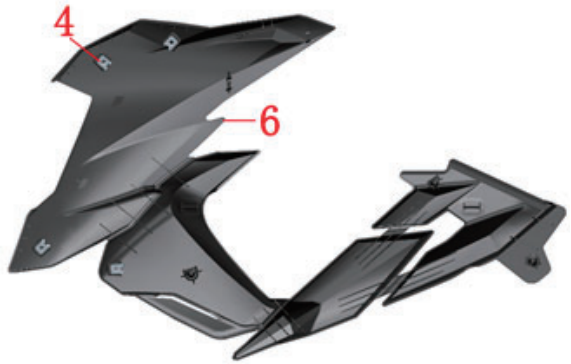


Fig.4 FUEL TANK COVER COMPONENT		Fuel tank trim cover component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	6	
2	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	6	
3	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	6	
4	1251300-063093	Splint M6×11×15 (environmental color)	8	
5		ZT310-R fuel tank left decorative cover	1	
6		ZT310-R fuel tank right decorative cover	1	
7	1251500-081000	Non-standard flat mat φ13×φ8.2×1.5(environmental color)	2	【1】
8	1224100-010000	ZT250-S expansion nail	2	

PROCEDURE:

●Left tank trim cover

Remove the bolts(1) separately;

Remove the bushing(2) and the cushion rubber(3).

Remove the expansion screw (8), Pull out in the order①-②-③ and pull out the trim cover(5).

Press④ with one hand and push the trim cover forward to remove the left trim cover (5).

Remove the splint(4) from the left trim cover(5).

●Right tank trim cover

Remove the right trim cover(6) by removing the left trim cover.

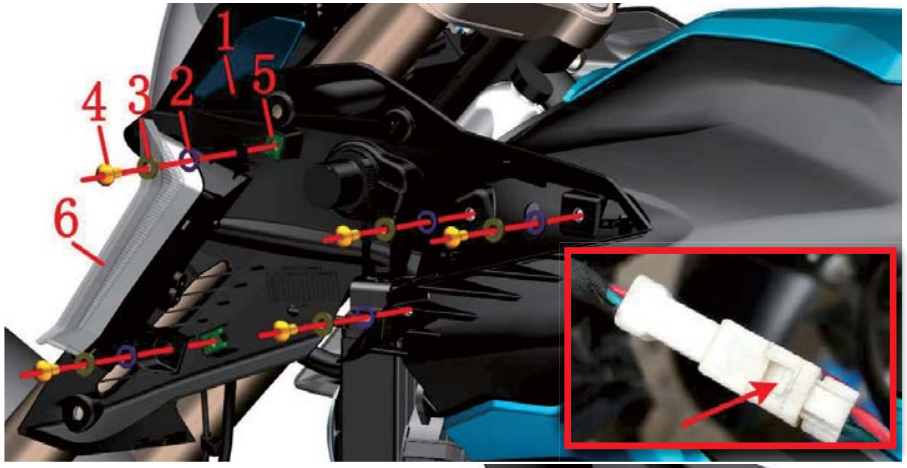
CAUTION:

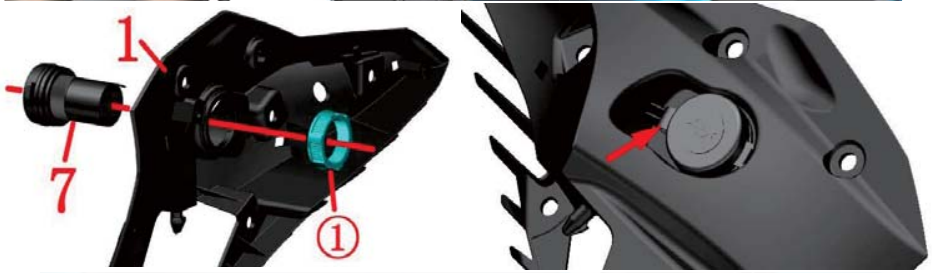
● The left and right side covers and cushions must be removed in advance.

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

● When assembling, first fasten the ④ buckles, then install the staples in the order of ③-②-①.

● 【1】Increase non-standard flat mat(7) at the bottonm mounting point of the left&right fuel tank decorative cover from 16 Oct. 2019.





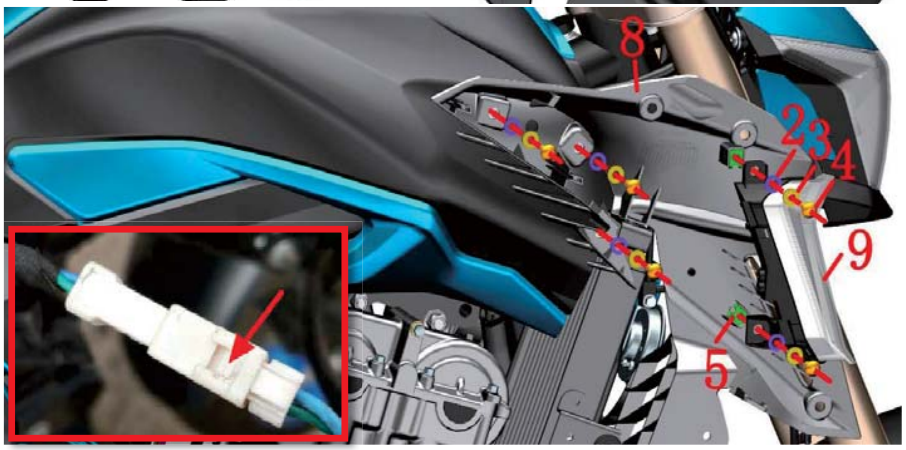


Fig.5 FUEL TANK COVER COMPONENT		Fuel tank trim cover rear shell component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-013000	ZT310-R fuel tank left decorative cover back shell	1	
2	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	10	
3	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	10	
4	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	10	
5	1251300-063093	Splint M6×11×15 (environmental color)	4	
6	1174200-004000	ZT310-R front left turn signal	1	
7	1184200-100000	ZT310 dual-port USB charging cable	1	dual-port
8	1224200-012000	ZT310-R fuel tank right decorative cover back shell	1	
9	1174200-005000	ZT310-R front right turn signal	1	

PROCEDURE:

●Left tank trim cover back shell assembly

Locate the left turn signal plug and press the limit buckle to pull it out. Locate the USB charging cable plug.

Remove the 2 bolts(4) of the left turn signal(6) and remove the bushing(3) and the cushion rubber(2). Remove the left turn signal. Remove the splint(5) from the rear case.

Remove the other 3 bolts(4) from the rear cover of the left trim cover and remove the bushing(3) and cushion rubber(2). Remove the left rear housing assembly.

Remove the nut ① that comes with the USB charging cable . Remove the USB charging cable(7) from the rear case(1).

●Right tank trim cover back shell assembly

Locate the right turn signal plug and press the limit buckle to pull it out.

Remove the 2 bolts(4) of the right turn signal(9) and remove the bushing(3) and the cushion rubber(2). Remove the right turn signal. Remove the splint(5) from the rear case.

Remove the other 3 bolts(4) from the rear cover(8) of the right trim cover, and remove the bushing(3) and the cushion rubber(2). Remove the right decorative cover back cover(8).

CAUTION:

●Do not pull the cable directly when unplugging the connector. The cable should not be bent or entangled excessively during assembly.

●Pay attention to the alignment when assembling the USB charging cable, as shown on the right.

●When removing the turn signal, the transparent lamp cover should be protected to prevent scratches.

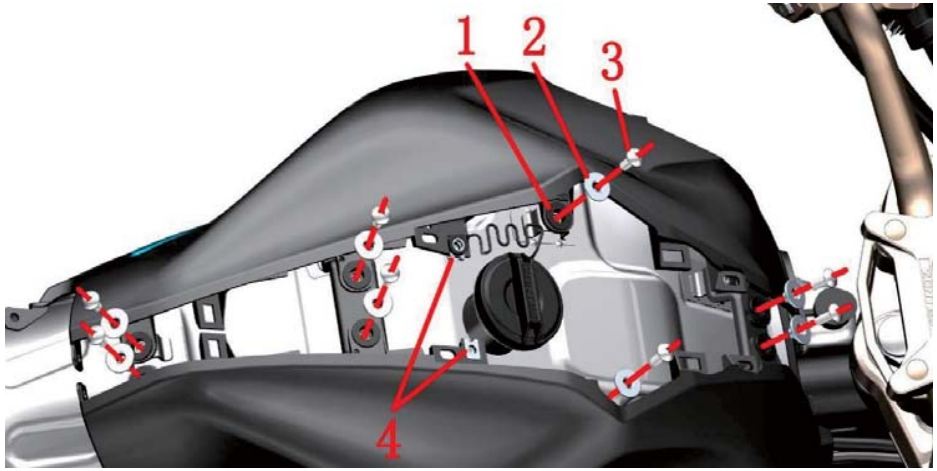


Fig.6 FUEL TANK COVER COMPONENT		Fuel tank cover component1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-004000	ZT250-S Flanging bushing buffer	8	
2	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	8	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	8	
4	1251300-063093	Splint M6×11×15 (environmental color)	8	
5	1244100-002000	ZT250-S side cover round glue	2	
6	1224200-066000	ZT310PKE external antenna mount	1	

PROCEDURE:

●Fuel tank cover assembly

Remove the 4 bolts(3) of the left tank cover and remove the bushing(2).

Pull out the parallel antennas at ① and ② respectively to find the external antenna mount(6). Press ③ and then pull the ④ toward the arrow to remove the PKE cable(6). Then remove the left Fuel tank cover assembly.

Remove the splint(4) and the side cover round(5) from the left Fuel tank cover assembly.

Follow the steps above to remove the right Fuel tank cover assembly, as well as the splint and side cover round.

CAUTION:

●The left and right side covers, the middle cover assembly and the seat cushion must be removed in advance.

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

●When removing and installing the staples, use parallel force to prevent damage to the staples.

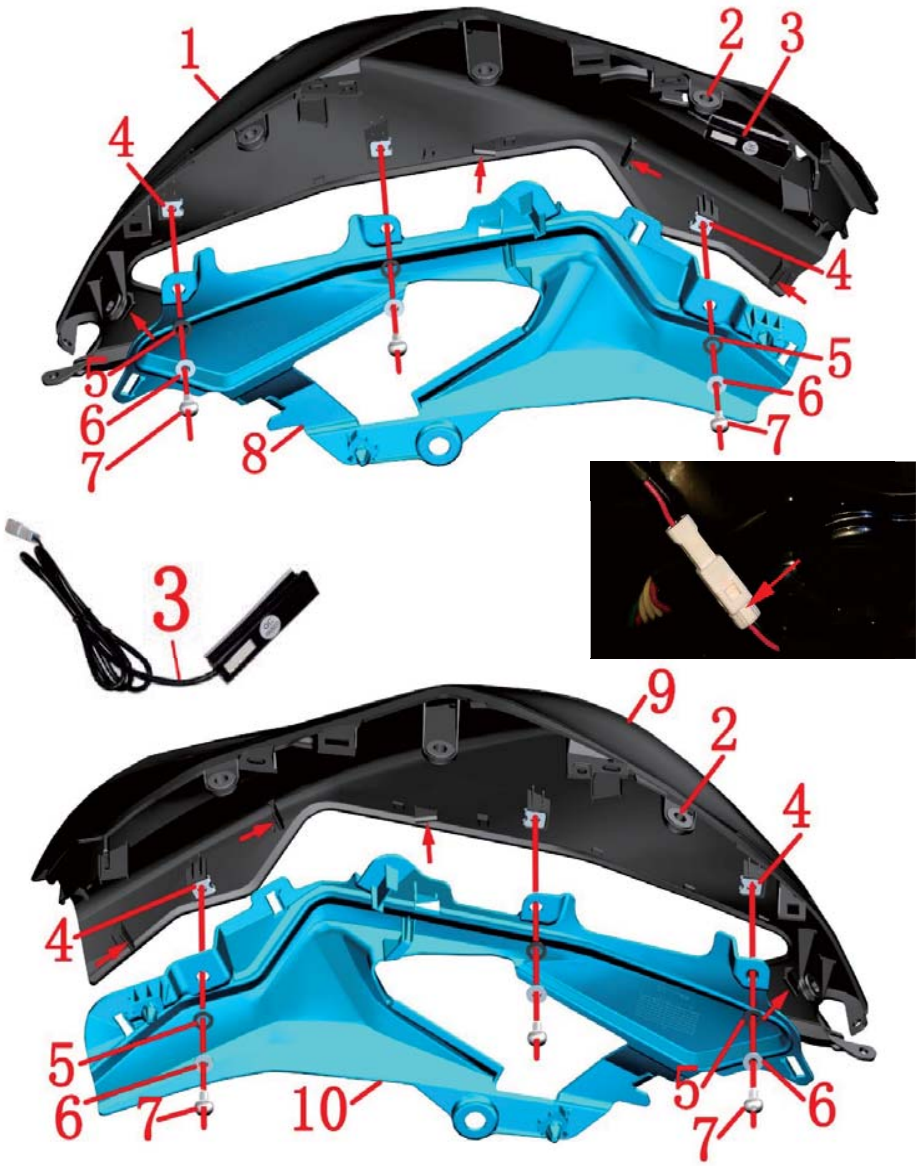


Fig.7 FUEL TANK COVER COMPONENT		Fuel tank cover component2	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044201-033052	fuel tank left cover upper part (iron grey)	1	blue
	4044201-033051	fuel tank left cover upper part (dark gray)		【1】
	4044201-033021	fuel tank left cover upper part (bright black)		black
2	1244100-004000	ZT250-S Flanging Bushing Buffer	8	
3	1184200-053000	ZT310PKE external single antenna	1	
4	1251300-063093	Splint M6×11×15 (environmental color)	6	
5	1244100-052000	Flanging bushing cushioning rubber (φ8.5×φ14×1)	6	
6	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	6	
7	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	6	
8	4044201-016064	fuel tank left cover lower part (bright blue)	1	blue
	4044201-016041	fuel tank left cover lower part (bright green)		green
	4044201-016061	fuel tank left cover lower part (bright purple)		purple
	4044201-016051	fuel tank left cover lower part (dark gray matte)		black
	4044201-016011	fuel tank left cover lower part (bright red)		red
	4044201-512031	fuel tank left cover lower part (bright yellow)		yellow
9	4044201-034052	fuel tank right cover upper part (iron grey)	1	blue
	4044201-034051	fuel tank right cover upper part (dark gray)		【2】
	4044201-034021	fuel tank right cover upper part (bright black)		black
10	4044201-017064	fuel tank right cover lower part (bright blue)	1	blue
	4044201-017041	fuel tank right cover lower part (bright green)		green
	4044201-017061	fuel tank right cover lower part (bright purple)		purple
	4044201-017051	fuel tank right cover lower part (dark gray matte)		black
	4044201-017011	fuel tank right cover lower part (bright red)		red
	4044201-513031	fuel tank right cover lower part (bright yellow)		yellow

PROCEDURE:

●Fuel tank cover assembly

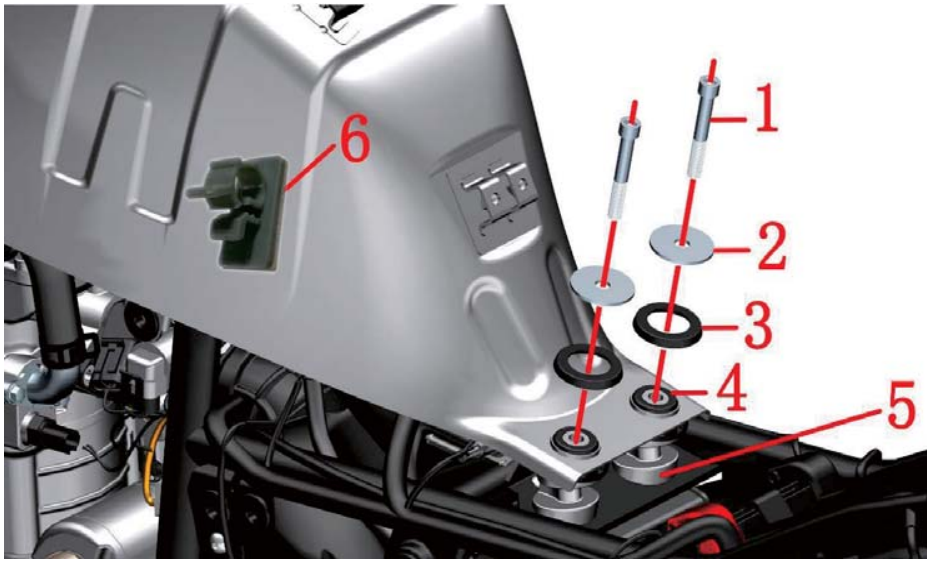
Remove the 3 bolts(7) from the left Fuel tank cover assembly and remove the bushing(6) and cushion rubber(5). Slightly push the snap on the upper part of the left cover(1) to remove the lower part of the left cover(8). Remove the cushion rubber(2) and the splint(4)from the upper part(1) of the left cover.

Locate the PKE external antenna(3) cable connector on the left side of the vehicle and unscrew the nut at the arrow indication. Remove the PKE external antenna from the upper part of the left trim cover. After slightly heating with a heat gun, tear off the double-sided tape and clean the residual glue.

Remove the right cover upper part(9) and the right cover lower part(10) as described above.

CAUTION:

● 【1】and【2】is dark gray bright green/bright purple/bright red/bright yellow for the car.



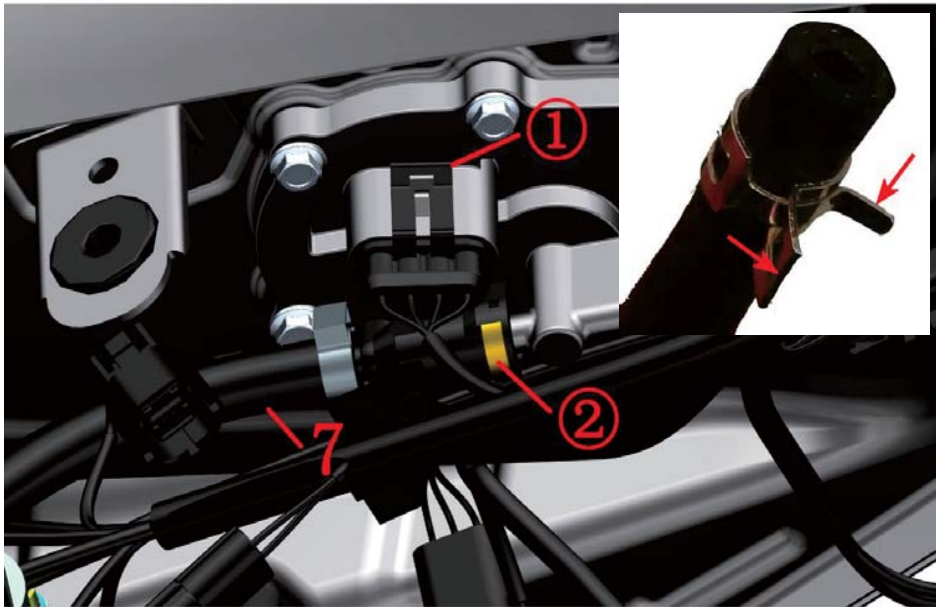


Fig.1 TANK LINER COMPONENT		Tank liner component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-043093	GB70.1M8×55 (environmental color)	2	
2	1251900-028093	ZT250-R fuel tank flat pad φ9×φ37.5×2	2	
3	1244100-020000	ZT250-S fuel tank pressure	2	
4	1244100-053000	ZT250-S second generation fuel tank 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	Delphi EFI
	1050954-035000	ZT310-R EFI High Pressure Tubing Sub-assembly		Bosch EFI

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.

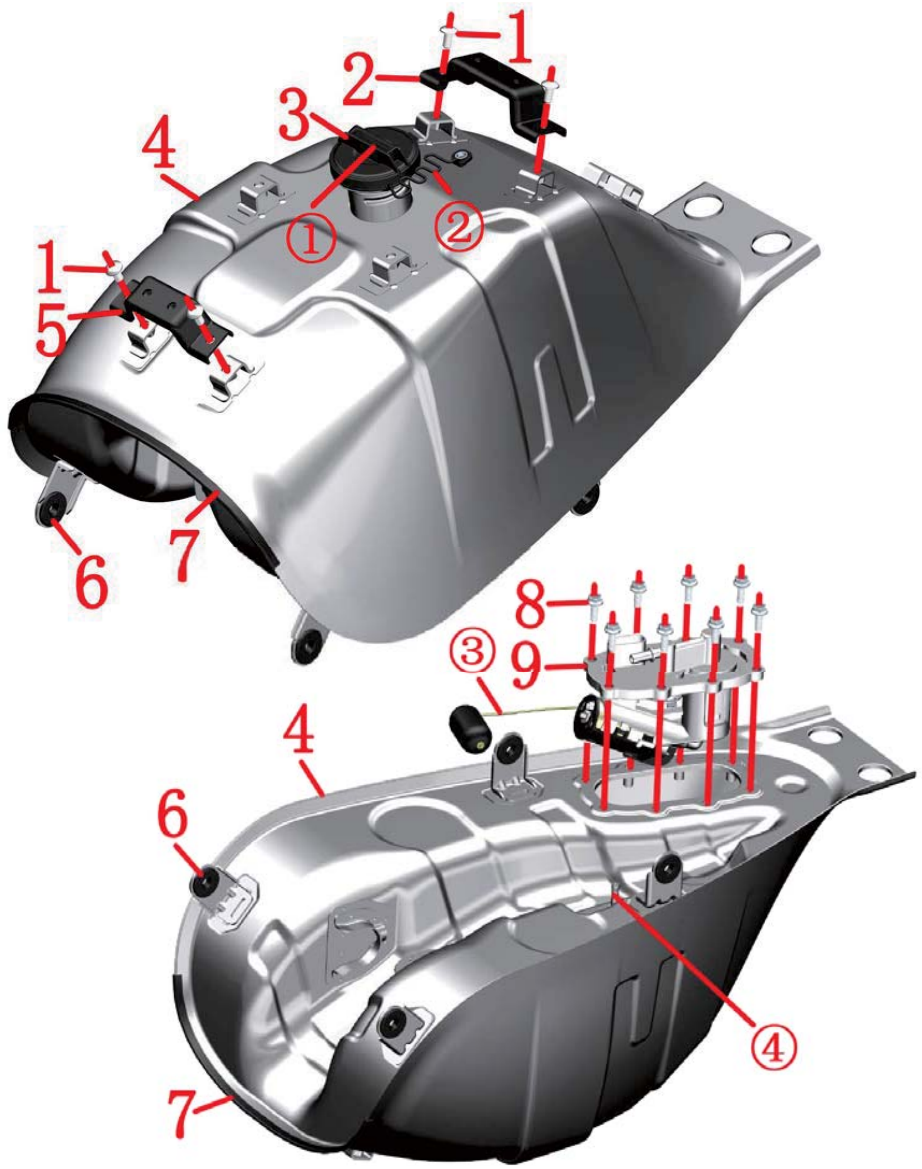


Fig.2 TANK LINER COMPONENT		Tank liner	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
2	1274200-014000	ZT310-R fuel tank cover rear mounting bracket	1	
3	1224100-033000	ZT250-S threaded fuel tank cap	1	
4	4034200-001000	ZT310-R fuel tank 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:

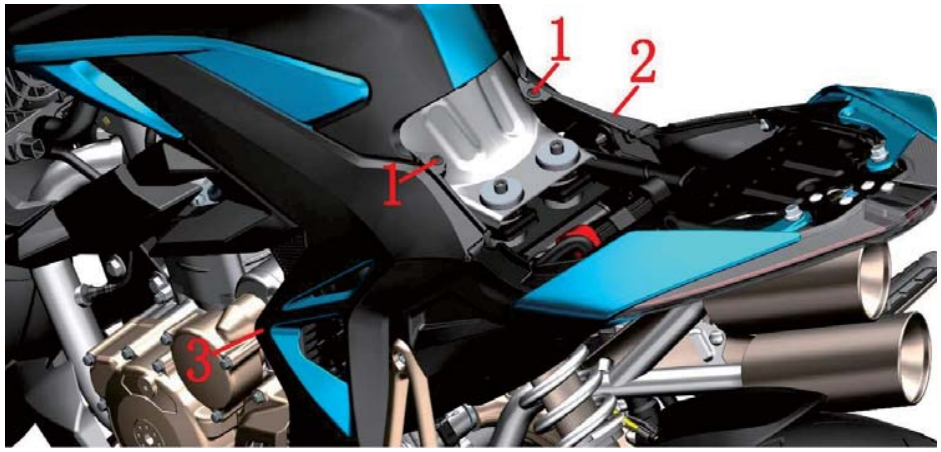
●Before removing the Tank liner assembly, it is recommended to use the oil pump to pump out the fuel or dissipate the fuel before disassembling.

●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.



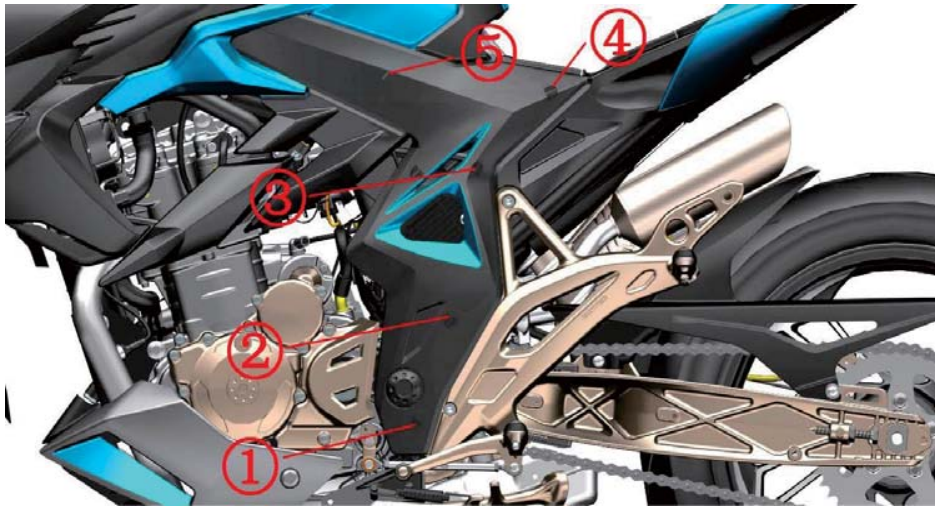


Fig.1 SIDE COVER COMPONENT		SIDE COVER COMPONENT(Old applique)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S Expansion nail	2	
2	4044201-027052	ZT310-R Right side cover (iron grey)	1	blue
	4044201-088051	ZT310-R Right side cover (dark grey bright blue)		bright blue
	4044201-084051	ZT310-R Right side cover (dark grey bright green)		green
	4044201-080051	ZT310-R Right side cover (dark grey bright purple)		purple
	4044201-092051	ZT310-R Right side cover (dark grey matte)		black
	4044201-084011	ZT310-R Right side cover (dark grey bright red)		bright red
3	4044201-026052	ZT310-R Left side cover (iron grey)	1	blue
	4044201-087051	ZT310-R Left side cover (dark grey bright blue)		bright blue
	4044201-083051	ZT310-R Left side cover (dark grey bright green)		green
	4044201-079051	ZT310-R Left side cover (dark grey bright purple)		purple
	4044201-091051	ZT310-R Left side cover (dark grey matte)		black
	4044201-083011	ZT310-R Left side cover (dark grey bright red)		bright red

PROCEDURE:

●Side cover assembly

Use a small Phillips screwdriver to press down on the center of the expansion screw and remove the expansion screw(1).

Pull out the gap by hand and pull it out. Pull out the ①-②-③ staples first.

Hold the front end of the side cover with one hand and grasp the front part of the skirt with one hand, and then pull the staples at the side cover ④ out.

Press the ⑤ points in one hand, grasp the rear part of the side cover with one hand, and then pull backwards with force to remove the side cover from the fuel tank trim cover.

CAUTION:

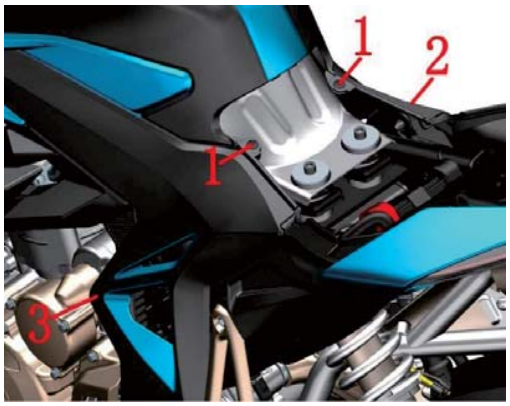
●When inserting, firstly insert the latch of the head of the side cover→the buckle that buckles at⑤ →install the staples by④-①; finally install the expansion screw.

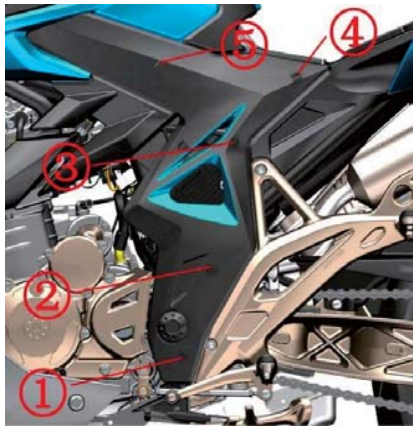
●The side cover already contains applique.Old applique side cover will stop selling ,and it's recommended to buy a new stripes applique or a new side cover(the part no. plese see next page) when replacing the side cover.

R310 SUPER MOTORCYCLE

Stop selling

R310 SUPER MOTORCYCLE





1210342-473000 ZT310-R right side cover applique（black/stripes/R310）

1210342-474000 ZT310-R left side cover applique（black/stripes/R310）

PROCEDURE:

●Side cover assembly

Use a small Phillips screwdriver to press down on the center of the expansion screw and remove the expansion screw(1).

Pull out the gap by hand and pull it out. Pull out the ①-②-③ staples first.

Hold the front end of the side cover with one hand and grasp the front part of the skirt with one hand, and then pull the staples at the side cover ④ out.

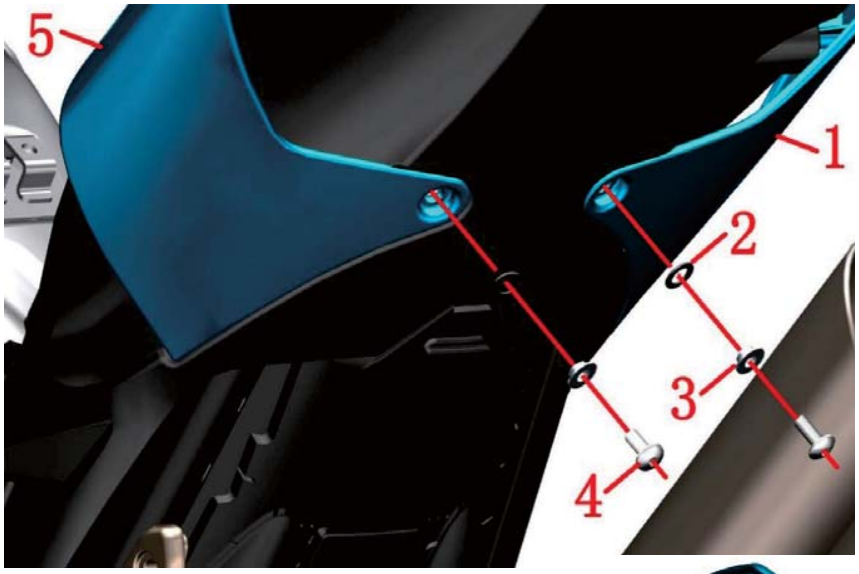
Press the ⑤ points in one hand, grasp the rear part of the side cover with one hand, and then pull backwards with force to remove the side cover from the fuel tank trim cover.

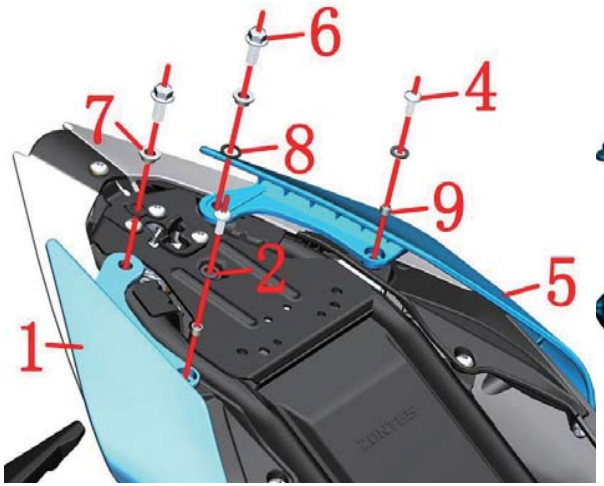
CAUTION:

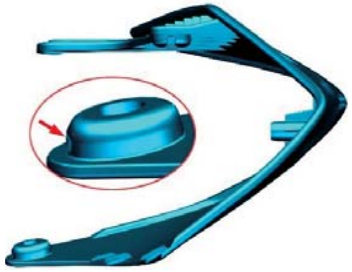
●When inserting, firstly insert the latch of the head of the side cover→the buckle that buckles at⑤ → install the staples by④-①; finally install the expansion screw.

●The side cover already contains applique.Old applique(see previous page) will stop selling ,and it's recommended to buy a new stripes applique or a new side cover when replacing the side cover.

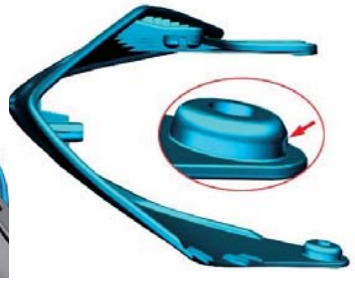
Fig.2 SIDE COVER COMPONENT		SIDE COVER COMPONENT(Stripes applique)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S Expansion nail	2	
2	4044201-460052	Right side cover (iron grey/stripes applique /R310)	1	blue
	4044201-457051	Right side cover (dark grey bright blue/stripes applique /R310)		bright blue
	4044201-456051	Right side cover (dark grey bright green/stripes applique /R310)		green
	4044201-454051	Right side cover (dark grey bright purple/stripes applique /R310)		purple
	4044201-458051	Right side cover (dark grey matte/stripes applique /R310)		black
	4044201-455051	Right side cover (dark grey bright red/stripes applique /R310)		bright red
	4044201-517051	Right side cover (dark grey bright yellow/stripes applique /R310)		yellow
3	4044201-459052	Left side cover (iron greyt/stripes applique /R310)	1	blue
	4044201-452051	Left side cover (dark grey bright blue/stripes applique /R310)		bright blue
	4044201-451051	Left side cover (dark grey bright green/stripes applique /R310)		green
	4044201-449051	Left side cover (dark grey bright purple/stripes applique /R310)		purple
	4044201-453051	Left side cover (dark grey matte/stripes applique /R310)		black
	4044201-450051	Left side cover (dark grey bright red/stripes applique /R310)		bright red
	4044201-516051	Left side cover (dark grey bright yellow/stripes applique /R310)		yellow







Rear cover left trim cover



Rear cover right trim cover

Fig.1 REAR COVER COMPONENT		Rear cover trim cover component(lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		ZT310-R Rear cover right trim cover (bright blue)	1	blue
		ZT310-R Rear cover right trim cover (bright green)		green
		ZT310-R Rear cover right trim cover (bright purple)		purple
		ZT310-R Rear cover right trim cover (bright black)		black
		ZT310-R Rear cover right trim cover (bright red)		bright red
2	1244100-052000	Flange bushing buffer (φ8.5×φ14×1)	4	
3	1274100-057095	Flanged bush φ6.2×φ8.4×3.5＋φ14×1.5	2	
4	1251100-102000	Non-standard bolt M6×16 (stainless steel)	4	
5		ZT310-R Rear cover left trim cover (bright blue)	1	blue
		ZT310-R Rear cover left trim cover (bright green)		green
		ZT310-R Rear cover left trim cover (bright purple)		purple
		ZT310-R Rear cover left trim cover (bright black)		black
		ZT310-R Rear cover left trim cover (bright red)		bright red
6	1250105-142093	GB5789M8×20 (environmental color)	2	
7	1251700-058093	Flange bushing φ8.2×φ11×4.5+φ16×1.5	2	
8	1240300-071000	Flange bushing buffer (φ11×φ16×1)	2	
9	1274100-018000	ZT250-S Muffler anti-hot plate bushing	2	

PROCEDURE:

●Rear cover left trim cover

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

Remove the upper left bolt(4) and remove the cushion(2) and bushing(9).

Hold the left rear trim cover(1) with one hand, remove the upper left bolt(6) with one sleeve, and remove the bushing(7) and cushion rubber(8).

Remove the rear cover left trim cover(1).

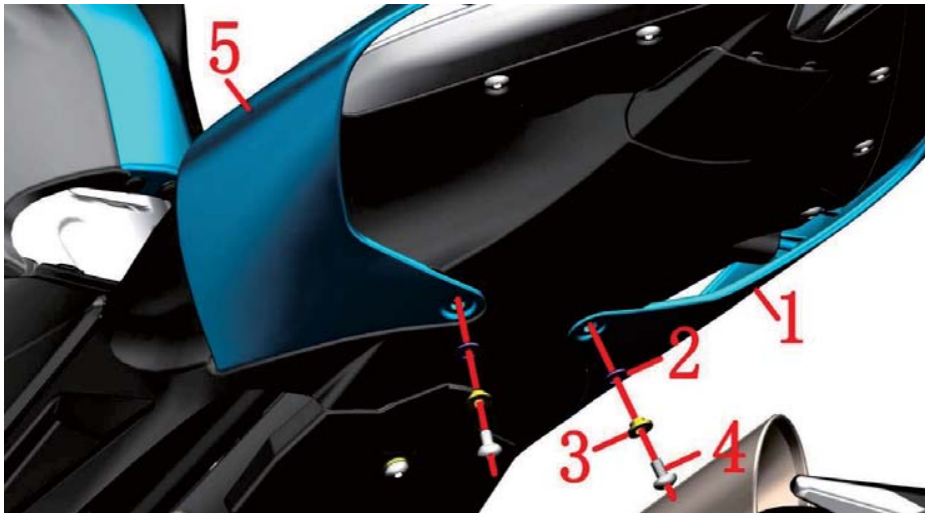
●Rear cover right trim cover

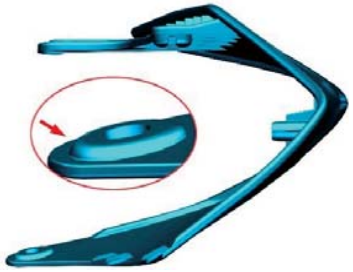
Remove the rear cover right trim cover(5) as described above.

CAUTION:

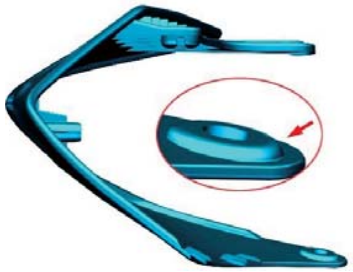
●Remove side covers and seat cushions in advance.

●The material should be protected during discomponent to prevent damage to the paint.





Rear cover left trim cover



Rear cover right trim cover

Fig.2 REAR COVER COMPONENT		Rear cover trim cover component (colliod battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044201-416064	Rear cover right trim cover (bright blue/colliod battery)	1	blue
	4044201-414041	Rear cover right trim cover (bright green/colliod battery)		green
	4044201-415061	Rear cover right trim cover (bright purple/colliod battery)		purple
	4044201-413021	Rear cover right trim cover (bright black/colliod battery)		black
	4044201-412011	Rear cover right trim cover (bright red/colliod battery)		bright red
	4044201-522031	Rear cover right trim cover (bright yellow/colliod battery)		yellow
2	1244100-052000	Flange bushing buffer (φ8.5×φ14×1)	4	
3	1274100-057095	Flanged bush φ6.2×φ8.4×3.5＋φ14×1.5	2	
4	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
5	4044201-421064	Rear cover left trim cover (bright blue/colliod battery)	1	blue
	4044201-419041	Rear cover left trim cover (bright green/colliod battery)		green
	4044201-420061	Rear cover left trim cover (bright purple/colliod battery)		purple
	4044201-418021	Rear cover left trim cover (bright black/colliod battery)		black
	4044201-417011	Rear cover left trim cover (bright red/colliod battery)		bright red
	4044201-521031	Rear cover left trim cover (bright yellow/colliod battery)		yellow
6	1250105-142093	GB5789M8×20 (environmental color)	2	
7	1251700-058093	Flange bushing φ8.2×φ11×4.5+φ16×1.5	2	
8	1240300-071000	Flange bushing buffer (φ11×φ16×1)	2	
9	1274100-018000	ZT250-S Muffler anti-hot plate bushing	2	
10	1251100-102000	Non-standard bolt M6×16 (stainless steel)	2	

PROCEDURE:

●Rear cover left trim cover

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

Remove the upper left bolt(10) and remove the cushion(2) and bushing(9).

Hold the left rear trim cover(1) with one hand, remove the upper left bolt(6) with one sleeve, and remove the bushing(7) and cushion rubber(8).

Remove the rear cover left trim cover(1).

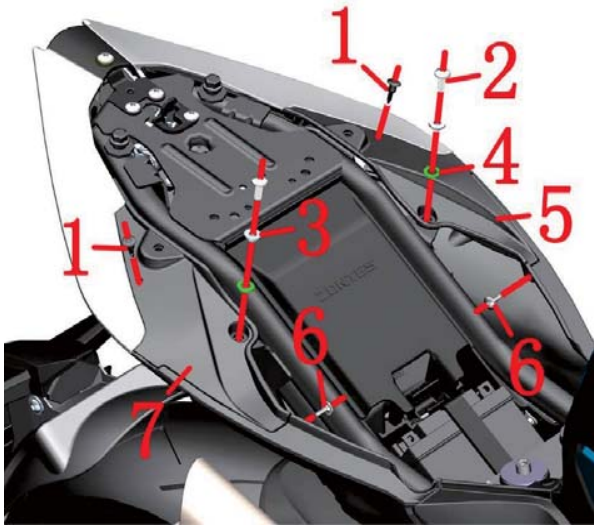
●Rear cover right trim cover

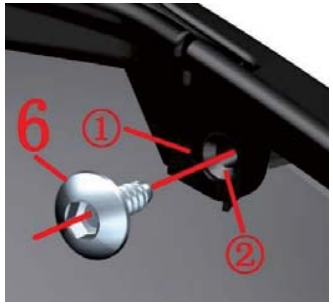
Remove the rear cover right trim cover(5) as described above.

CAUTION:

●Remove side covers and seat cushions in advance.

●The material should be protected during discomponent to prevent damage to the paint.





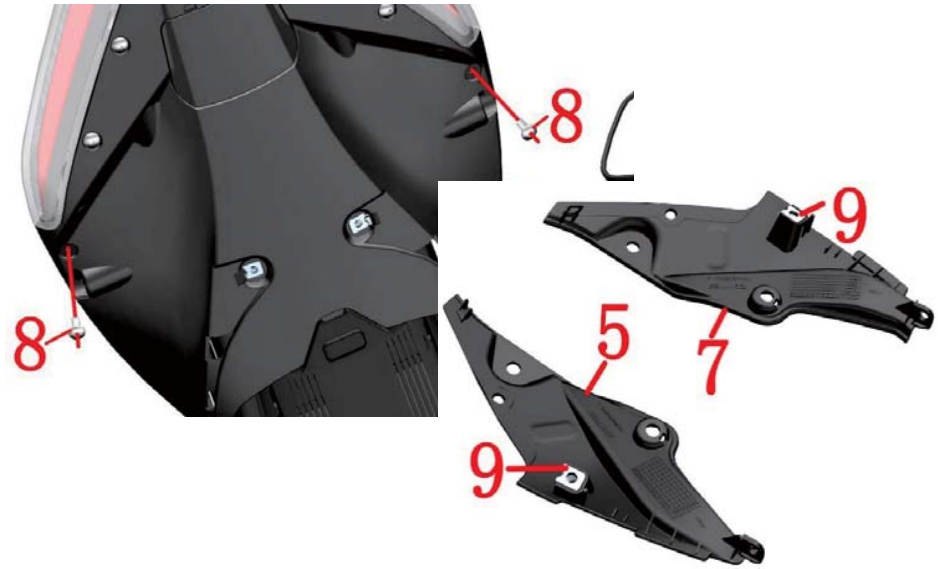


Fig.3 REAR COVER COMPONENT		Rear cover interior trim cover component (lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S Expansion nail	2	
2	1251100-102000	Non-standard bolt M6×16 (stainless steel)	2	
3	1274100-057095	Flanged bush φ6.2×φ8.4×3.5＋φ14×1.5	2	
4	1244100-052000	Flange bushing buffer (φ8.5×φ14×1)	2	
5	1224200-095000	ZT310-R Rear cover interior left trim cover	1	
6	1251200-033093	Non-standard self-tapping screws ST4.2×12	2	
7	1224200-096000	ZT310-R Rear cover internal right trim cover	1	
8	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
9	1251300-063093	plywood M6×11×15 (environmental color)	2	

PROCEDURE:

●Rear cover left interior trim cover

Use a small Phillips screwdriver to press down the center of the expansion screw(1) and remove it.

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

Remove the bolt(8) from the bottom left of the cover.

Remove the self-tapping screws(6). Remove the cover left interior trim cover component.

Turn to the back and remove the plywood(9) from the end cover left interior trim cover(5).

●Front cover right interior trim cover

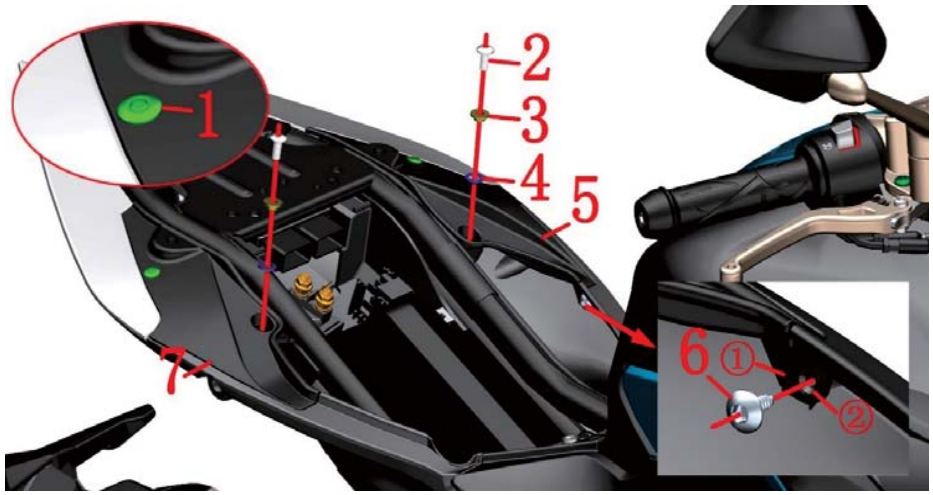
Remove the rear cover right interior trim cover(7) as described above.

CAUTION:

●Remove the side cover, seat cushion, and cover decoration cover in advance.

●The material should be protected during discomponent to prevent damage to the paint.

●When assembling self-tapping screws(6), it must be perpendicular to mounting surface①, otherwise it will be damaged②.



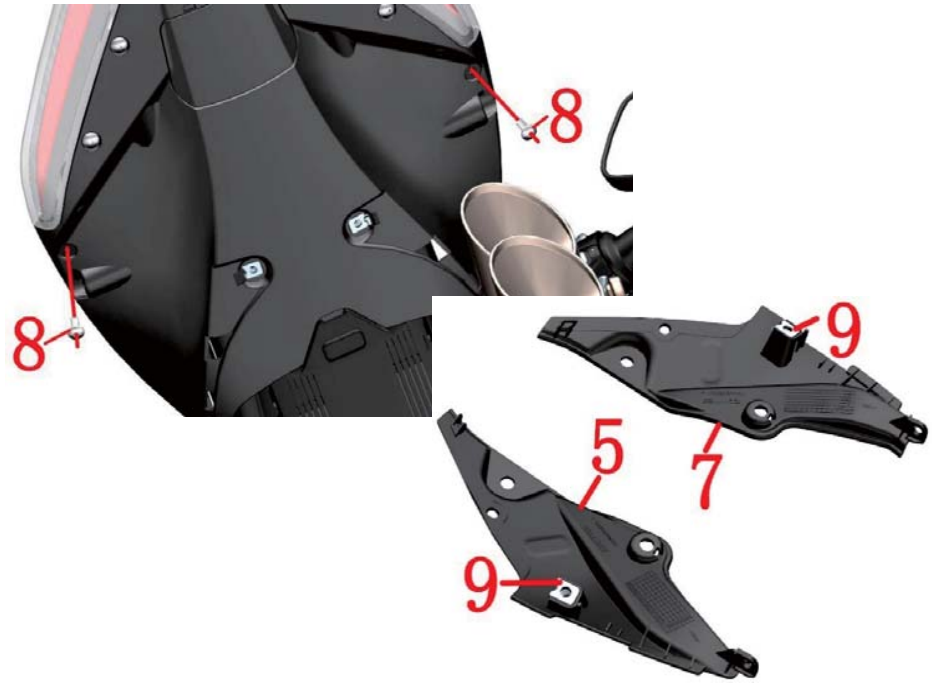


Fig.4 REAR COVER COMPONENT		Rear cover interior trim cover component (colliod battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S Expansion nail	2	
2	1251100-102000	Non-standard bolt M6×16 (stainless steel)	2	
3	1274100-057095	Flanged bush φ6.2×φ8.4×3.5＋φ14×1.5	2	
4	1244100-052000	Flange bushing buffer (φ8.5×φ14×1)	2	
5	1224200-095000	ZT310-R Rear cover interior left trim cover	1	
6	1251200-033093	Non-standard self-tapping screws ST4.2×12	2	
7	1224200-096000	ZT310-R Rear cover internal right trim cover	1	
8	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
9	1251300-063093	plywood M6×11×15 (environmental color)	2	

PROCEDURE:

●Rear cover left interior trim cover

Use a small Phillips screwdriver to press down the center of the expansion screw(1) and remove it.

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

Remove the bolt(8) from the bottom left of the cover.

Remove the self-tapping screws(6). Remove the cover left interior trim cover component.

Turn to the back and remove the plywood(9) from the end cover left interior trim cover(5).

●Front cover right interior trim cover

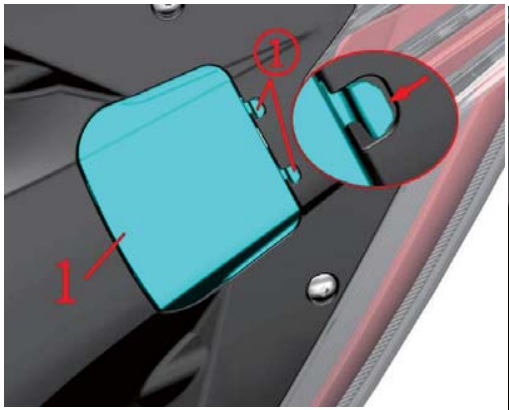
Remove the rear cover right interior trim cover(7) as described above.

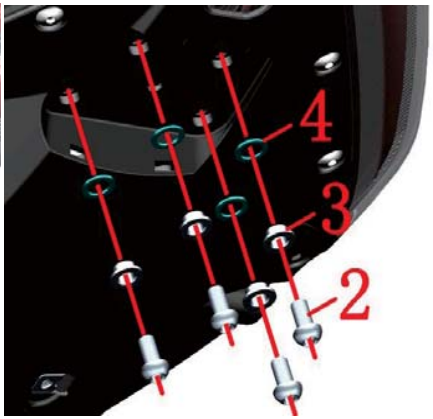
CAUTION:

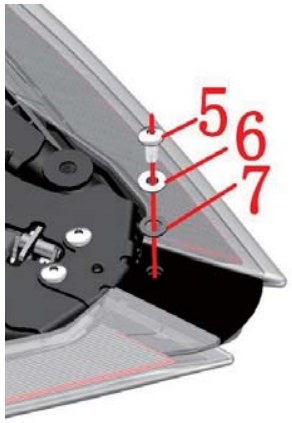
●Remove the side cover, seat cushion, and cover decoration cover in advance.

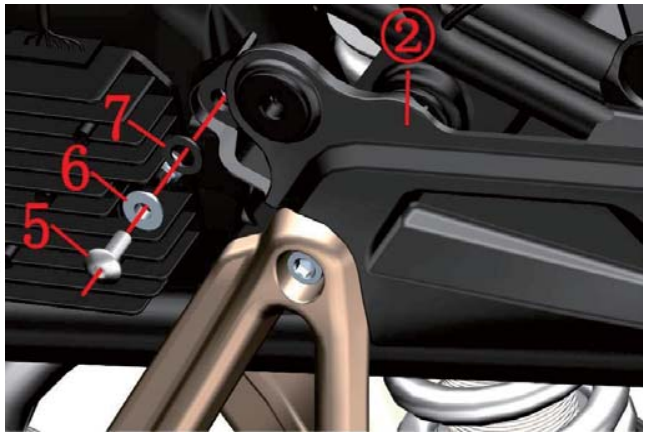
●The material should be protected during discomponent to prevent damage to the paint.

●When assembling self-tapping screws(6), it must be perpendicular to mounting surface①, otherwise it will be damaged②.









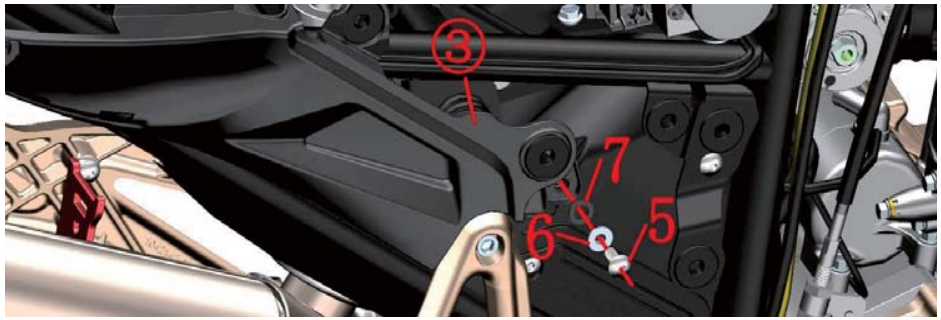


Fig.5 REAR COVER COMPONENT		Rear cover tail light component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044201-029052	ZT310-R Rear cover mudguard Installation Cover (Iron Grey)	1	blue
	4044201-029021	ZT310-R Rear cover mudguard mounting cover (bright black)		black
	4044201-029051	ZT310-R Rear cover fender cover (dark bright grey)		【1】
2	1251100-122093	Non-standard bolt M8×16 (environmental color)	4	
3	1251700-058093	Flange bushing φ8.2×φ11×4.5+φ16×1.5	4	
4	1240300-071000	Flange bushing buffer (φ11×φ16×1)	4	
5	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	3	
6	1274100-057095	Flanged bush φ6.2×φ8.4×3.5＋φ14×1.5	3	
7	1244100-052000	Flange bushing buffer (φ8.5×φ14×1)	3	

PROCEDURE:

●Rear cover mudguard mounting cover

Find and remove the plug connector for the rear lamps.

Push the buckle① on the mounting cover(1) forward and remove it. Pay attention to efforts.

Remove the 4 bolts(2) and remove the bushing(3) and pad(4).

Remove the bolts(5) on the upper part of the rear cover lamp component and remove the bushing(6) and pad(7).

Remove the bolt(5) at the front left end of the cover and remove the bushing(6) and the pad(7).

Remove the bolt (5) at the front right end of the cover and remove the bushing(6) and pad(7).

Remove the② and ③ clips respectively and remove the rear cover component.

CAUTION:

●Remove the side cover, seat cushion, and cover decoration cover in advance.

●The material should be protected during discomponent to prevent damage to the paint.

●Use a parallel force to remove the staples to prevent damage to the staples. At the same time should pay attention to efforts.

●【1】is dark gray bright blue/bright green/bright purple/bright red/bright yellow for the car.

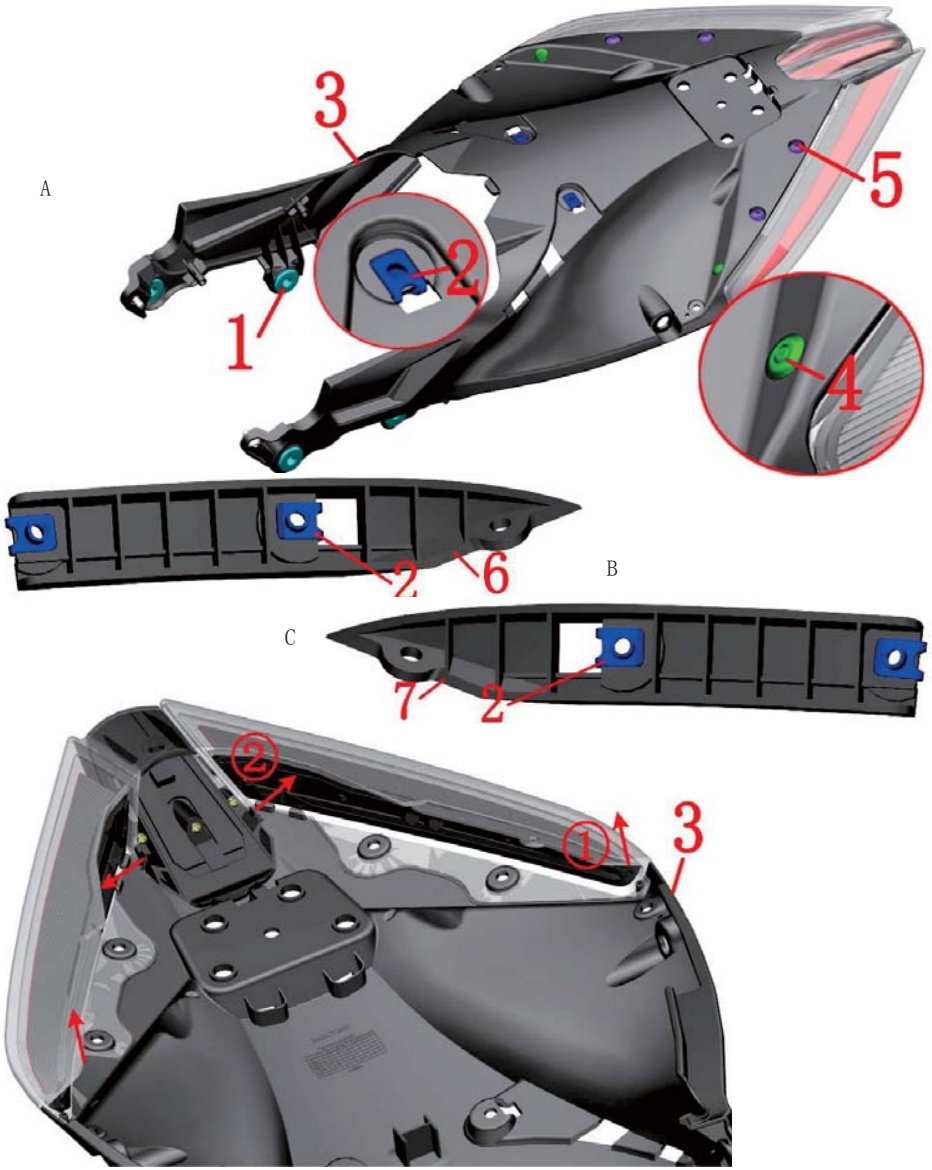


Fig.6 REAR COVER COMPONENT		Rear cover taillight component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-002000	ZT250-S Side cover round rubber	4	
2	1251300-063093	plywood M6×11×15 (environmental color)	6	
3		ZT310-R Rear cover (iron grey)	1	blue
		ZT310-R Rear cover (dark bright grey)		【1】
		ZT310-R Rear cover (dark bright black)		black
	4044201-411052	ZT310-R Rear cover (iron grey/colliod battery)		blue
	4044201-410051	ZT310-R Rear cover (dark bright grey/colliod battery)		【1】
	4044201-409021	ZT310-R Rear cover (dark bright black/colliod battery)		black
4	1224100-010000	ZT250-S Expansion nail	2	
5	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	4	
6	1224200-054000	ZT310-R Taillight left mounting plate	1	
7	1224200-056000	ZT310-R Taillight right mounting plate	1	

PROCEDURE:

●Rear cover taillight component

Remove 4 pieces of side cover round glue(1) and 2 pieces of plywood nuts(2) and 2 pieces of expansion nails(4) from the rear cover(3), as shown in Picture A.

Remove the bolts(5) and remove the left and right mounting plate component.

●Mounting plate component

Remove the plywood nut(2) from the taillight left mounting plate(6) as shown in Picture B.

Remove the plywood nut(2) from the taillight right mounting plate(7) as shown in Picture C.

●Taillight component

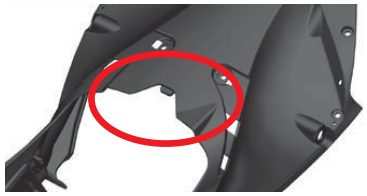
With both hands, grasp the left front and rear cover connections of the taillights and pull up in the direction of arrow① to pull the taillight component out of the pin on the cover. Snap the② in the direction of the arrow and pull them up while pulling them outwards. In the same procedure, pull up the right taillight component.

CAUTION:

●The material should be protected during discomponent to prevent damage to the paint or scratching the lamp.

●The front of the cover is a litter long and care must be taken to prevent it from being broken unevenly.

●【1】for dark gray bright blue/bright green/bright purple/bright red/bright yellow for the car.



Colliod battery version

Lithium battery version

Fig.7 REAR COVER COMPONENT		Taillight component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1174200-012000	ZT310-R left rear position lamp	1	
2	1174200-014000	ZT310-R stop lamp	1	
3	1174200-013000	ZT310-R right rear position lamp	1	

PROCEDURE:

●Taillamp component

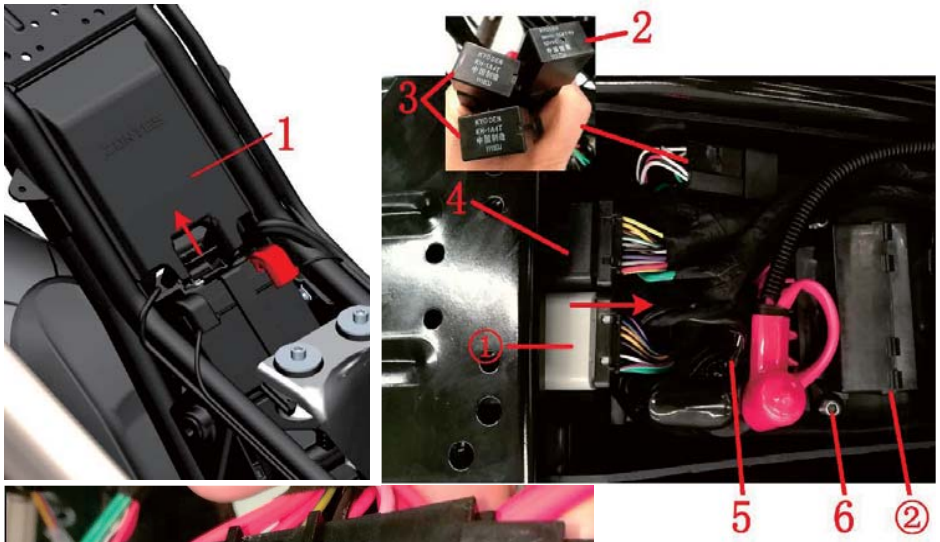
Remove the left bolt① and hold the stop lamp(2). Pull the left rear position lamp(1) out in the direction of the arrow. Remove the left rear position lamp(1).

Remove the right rear position bright(3) as described above.

CAUTION:

●The material should be protected during discomponent to prevent scratching the lamp.

●Never pull the cable directly.



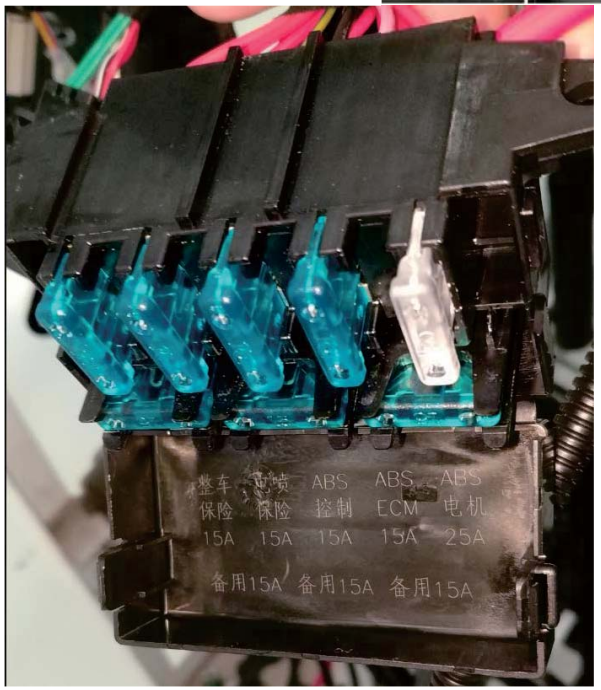


Fig.8 REAR COVER COMPONENT		Electric component box cover component (lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-039000	ZT310 Electrical device box cover	1	
2	1184200-024000	ZT310-R Side bracket relay	1	G8HN-1C4T-RJ
3	1184100-017000	ZT250-S Electric spray relay	2	KH-1A4T
4	1050954-019000	MT05.2 Engine Controller - Model ZT310-RC4	1	ECU
5	1184100-010000	ZT250-S Start relay	1	
6	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
7	1184200-016000	ZT310 PKE buzzer	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 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 Controller (ECU)

Hold the ECU(4) connector① in the direction of the arrow and separate the ECU(4) from the main cable.

●Fuse box

Remove the two bolts(6) and pull the fuse box and cables together, and then pinch the two ends of the fuse box ② and open the lid to replace the fuse. There is a corresponding description on the fuse box cover.

●PKE buzzer

Remove the PKE buzzer(7). Clean up the remaining offset.

CAUTION:

● Never pull the cable directly.

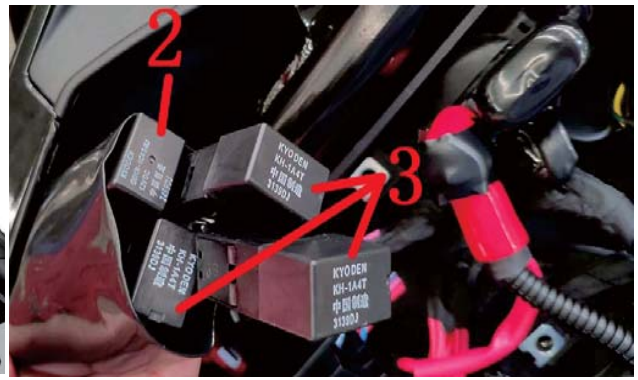


Fig.9 REAR COVER COMPONENT		Electric component box cover component (TFT Instrument/lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-039000	ZT310 Electrical device box cover	1	
2	1184200-024000	ZT310-R Side bracket relay	1	G8HN-1C4T-RJ
3	1184100-017000	ZT250-S Electric spray relay	3	KH-1A4T
4	1050954-019000	MT05.2 Engine Controller - Model ZT310-RC4	1	ECU
5	1184100-010000	ZT250-S Start relay	1	
6	1184200-016000	ZT310 PKE buzzer	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.

●PKE buzzer

Remove the PKE buzzer(6). Clean up the remaining offset.

CAUTION:

● Never pull the cable directly.

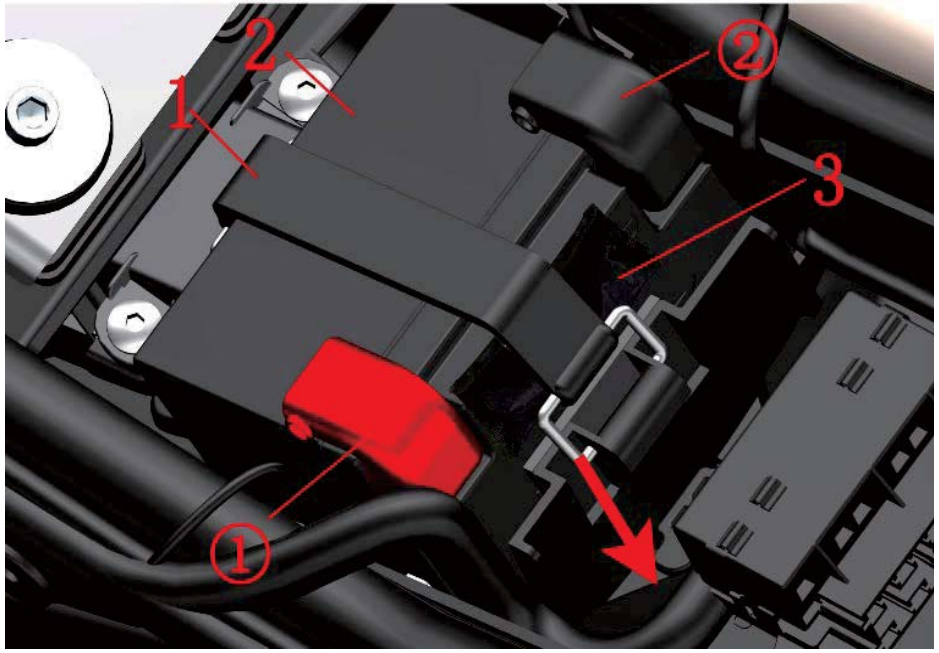


Fig.10 REAR COVER COMPONENT		Battery pack(lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-072000	ZT250-R Battery straps	1	
2	1184100-116000	ZT250 Lithium battery	1	
3	1274200-234000	ZT310-R1 Finished motorcycle tool	1	

PROCEDURE:

●Battery straps, finished motorcycle tools

Pull the metal snap ring ③ of the battery strap (1) in the direction of the arrow, press it down, remove it, and remove the on-board 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, connect the positive electrode first, then connect the negative electrode. No parallel battery charging or ignition.

A qualified lithium battery charger should be used for manual charging. Pay attention to fire prevention and ventilation during charging. Pay attention not to overcharge the charging time.

CAUTION:

●Pull the plugs ①、② out of the cable.

●Be careful not to overcharge the charging time. About the use and maintenance of the battery see the instructions.

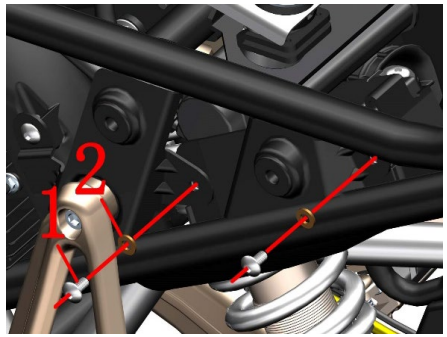
●Attention should be paid to the discomponent process to avoid damaging the material. Attention must be paid to the installation sequence when removing the battery.

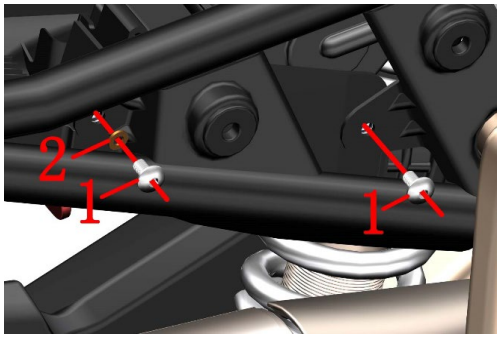
●The battery voltage should be checked regularly. If it is lower than 12.5V, it is recommended to charge it in time; it must not be overcharged; it should be taken out of storage for a long time without being used, and it should be charged once a month.

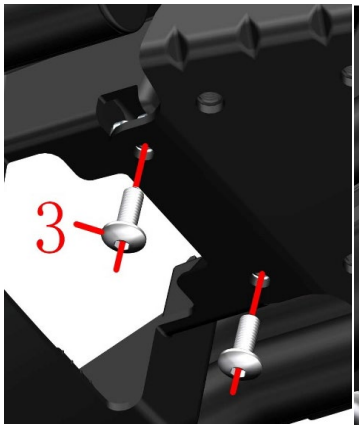
●Reassemble the battery or fuse, etc. Remember to remember to reset the EFI hardware: Turn on the key-Ignition- 10 seconds After the ignition is turned off - After 10 seconds Turn on the ignition switch and repeat 2 times.

●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.

● July 17,2019,"1274200-078000 ZT310-R Finished motorcycle tool"replaced by"1274200-234000 ZT310-R1 Finished motorcycle tool".







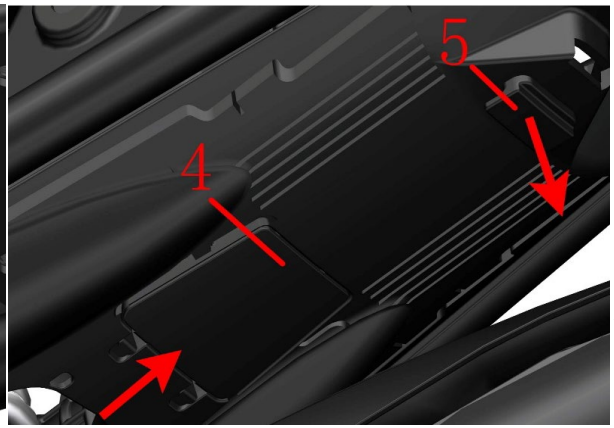


Fig.11 REAR COVER COMPONENT		Electrical device box component 1(lithium battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
2	1251513-001019	6.3 x 12 x 1.6 copper gasket	3	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	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 on the left side of the front of the electrical component box(1) 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 bolts(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.

Find and unplug the connectors③ 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.

ZT310 PKE Controller
（single antenna ）

ZT310 PKE Controller
（bracelet edition)

Fig.12 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	stop selling
	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:

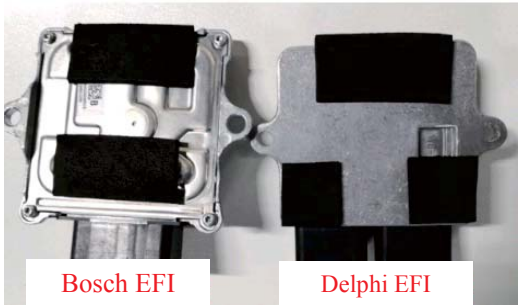
●When inserting or removing the fuse, pay attention to the vertical alignment and then disassemble it. Do not bend it. Use a qualified fuse.

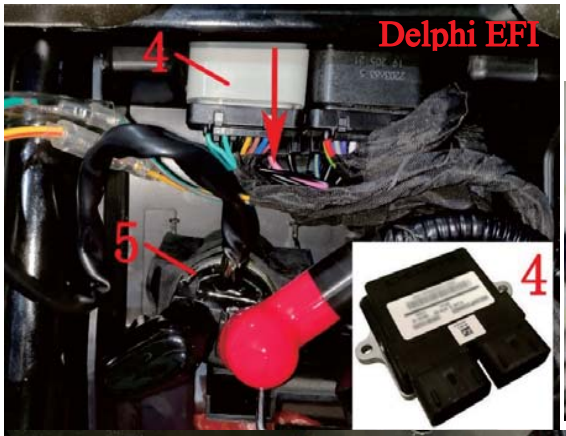
●PKE cables need to be protected. Non-professionals are strictly prohibited from dismantling the PKE system components, as this may cause permanent damage.

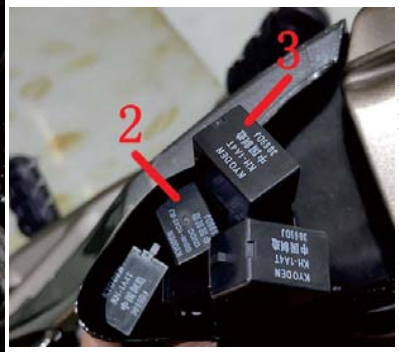
●Please refer to the driving manual for details on the use of PKE.

●PKE key shell（containing key glue+key ring） just for after-sale to change the shell,no internal electrical appliances.

●The single antenna PKE controller has been stop selling, it can be replaced by bracelet edition.







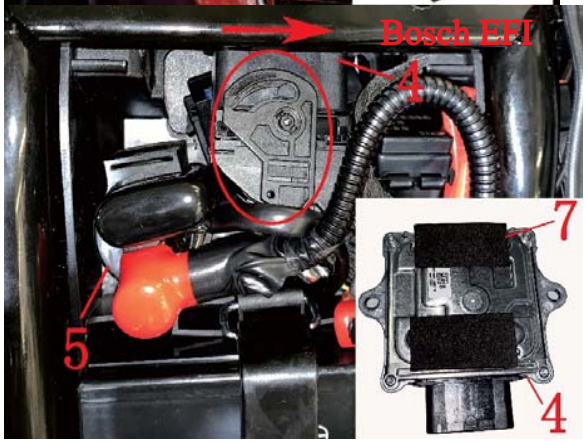


Fig. 13 REAR COVER COMPONENT		Electrical component (colloid battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-176000	Colloid battery electric device box upper cover	1	
2	1184200-024000	ZT310－R Side bracket relay	1	G8HN-1C4T-RJ
3	1184100-017000	ZT250－S EFI relay	3	KH-1A4T
4	1050954-019000	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

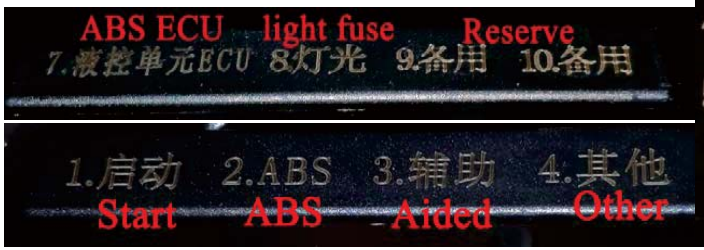
Fuse box cover with corresponding instructions.

●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.



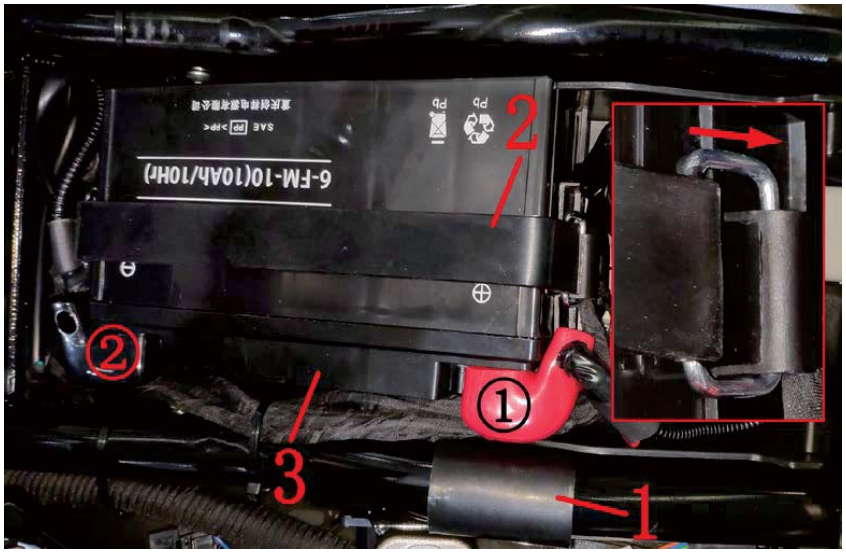


Fig. 14 REAR COVER COMPONENT		Battery component (colloid battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1240100-023000	Battery anode protection glue	1	
2	1244200-111000	ZT310 gel battery strap	1	
3	1184200-099000	ZT310 colloid battery (6-FM-10/10Ah)	1	
4	1184200-163000	ZT310 lead acid battery 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:

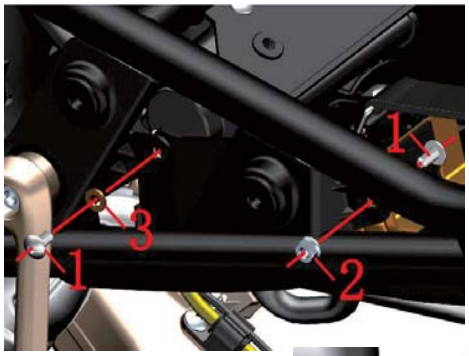
●Be careful not to overcharge the charging time. About the use and maintenance of the battery see the instructions.

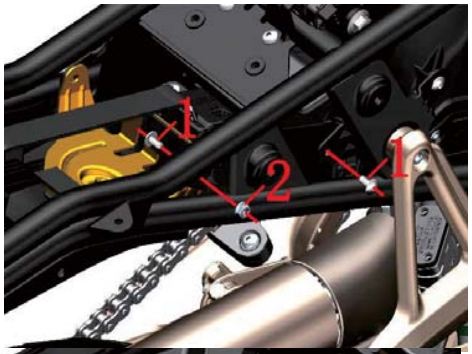
●Attention should be paid to the discomponent process to avoid damaging the material. Attention must be paid to the installation sequence when removing the battery.

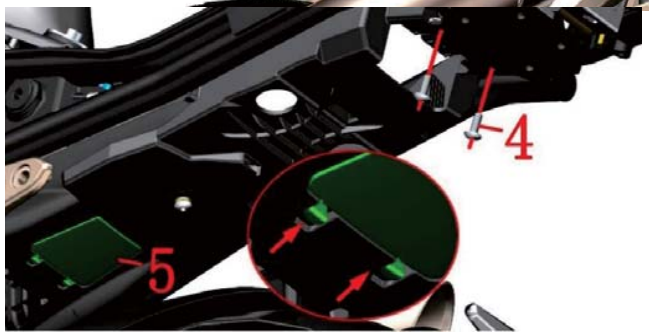
●The battery voltage should be checked regularly. If it is lower than 12.8V, it is recommended to charge it in time; it must not be overcharged; it should be taken out of storage for a long time without being used, and it should be charged once a month.

●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.







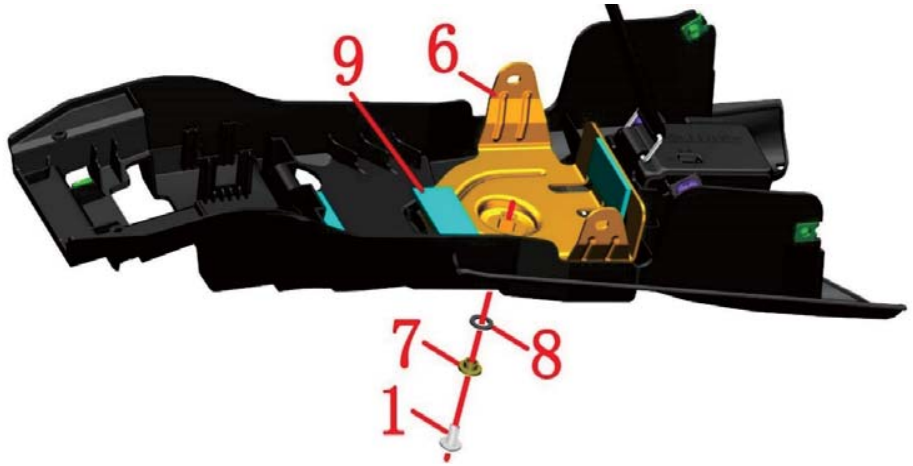


Fig. 15 REAR COVER COMPONENT		Electrical device box component 1 (colloid battery)	CHK ADH	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	5	
2	1250303-010093	GB6177.1M6 (environmental color zinc)	2	
3	1251513-001019	6.3 x 12 x 1.6 copper gasket	1	
4	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.

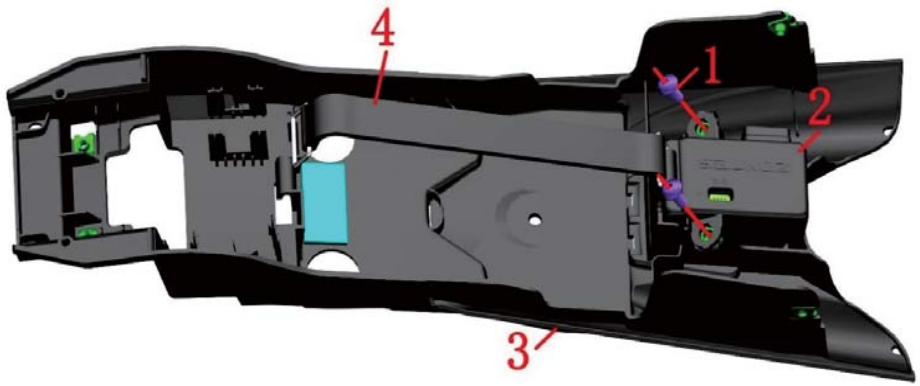
CAUTION:

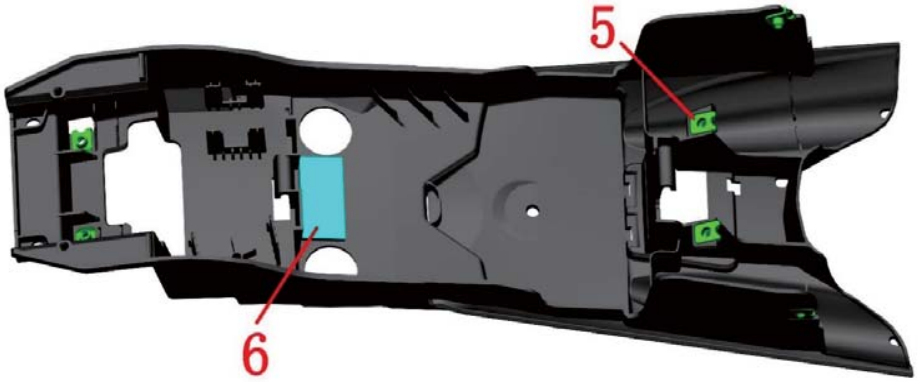
●Do not pull the cable directly when unplugging it.

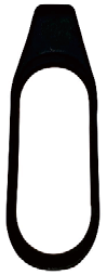
●If you need to replace the PKE fuse, you can replace it by directly removing the lower cover of the electrical device box.

●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）

7

8

Fig. 16 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:

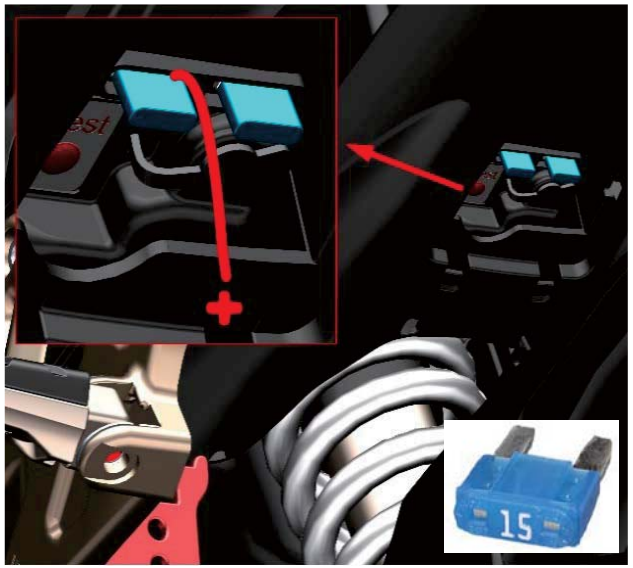
●When inserting or removing the fuse, pay attention to the vertical alignment and then disassemble it. Do not bend it. Use a qualified fuse.

●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.17 REAR COVER COMPONENT	External battery start PKE system	CHK ADJ	



ZT310 PKE Controller
（bracelet edition)

PROCEDURE:

●Emergency handling method after the battery is destroyed or the battery is exhausted for too long:

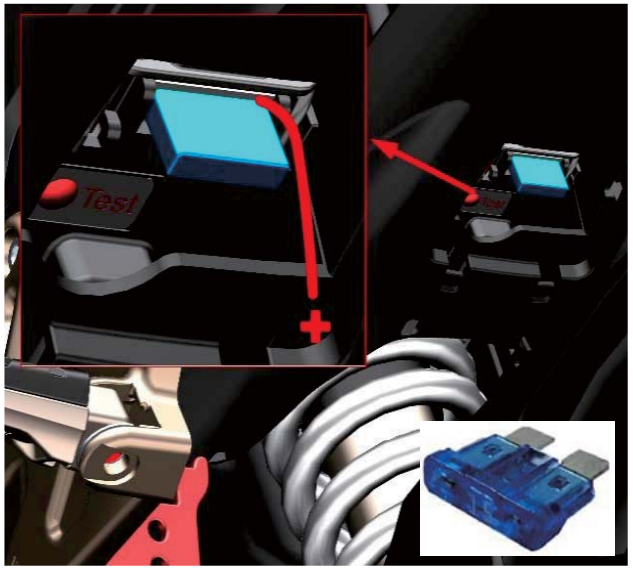
Find a 15A fuse and wind a wire around any one of the fuses as shown in the left side.

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.



ZT310 PKE Controller
（single antenna ）

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.

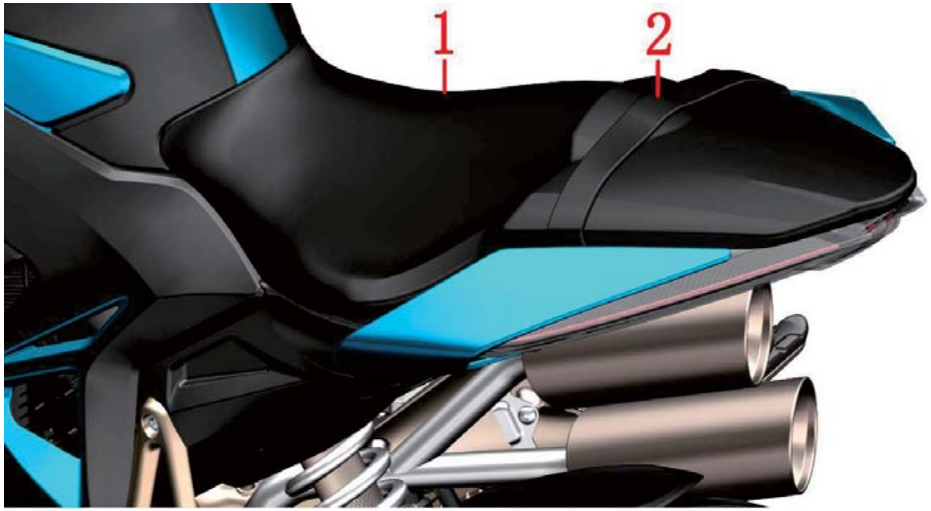


FIG.1 CUSHION COMPONENT		Cushion component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1204200-002000	ZT310-R Seat cushion	1	
	1200100-465000	ZT310-R Seat cushion (2021)		
2	1010502-005000	ZT310-R Cushion belt	1	【1】
3	1244100-024000	ZT250-S Cushion front rubber	2	
4	1244100-022000	ZT250-S Cushion rubber	4	
5	1244100-025000	ZT250-S Cushion round rubber	4	
6	1250303-010093	GB6177.1M6 (environmental color)	2	

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 and belt, purchased separately

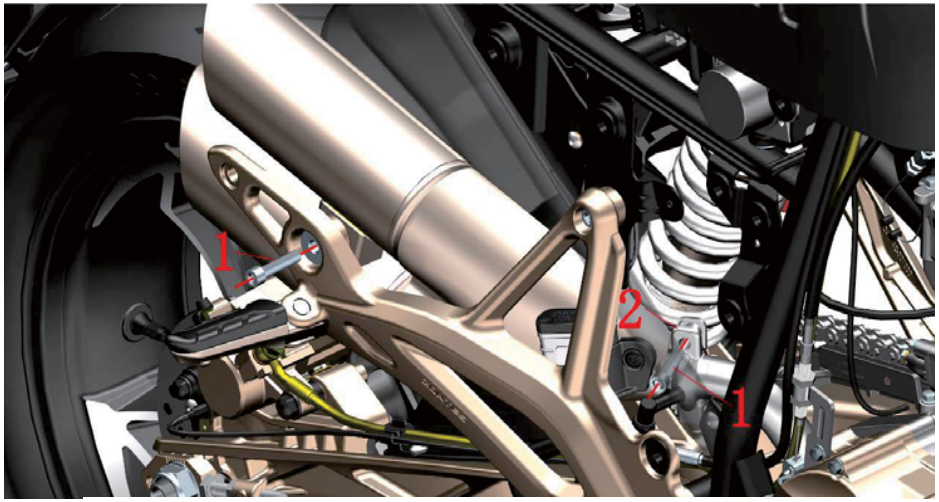
If the cushion rubber aging or excessive wear of the belt can be purchased on the Zontes official website. The corresponding installation position is shown in the lower left figure.

CAUTION:

●The motorcycle should be fixed before operation.

●【1】Cushion(1) contains all cushion rubber and locks, bolts.

●Cushion can cause accidents if it is not installed properly.



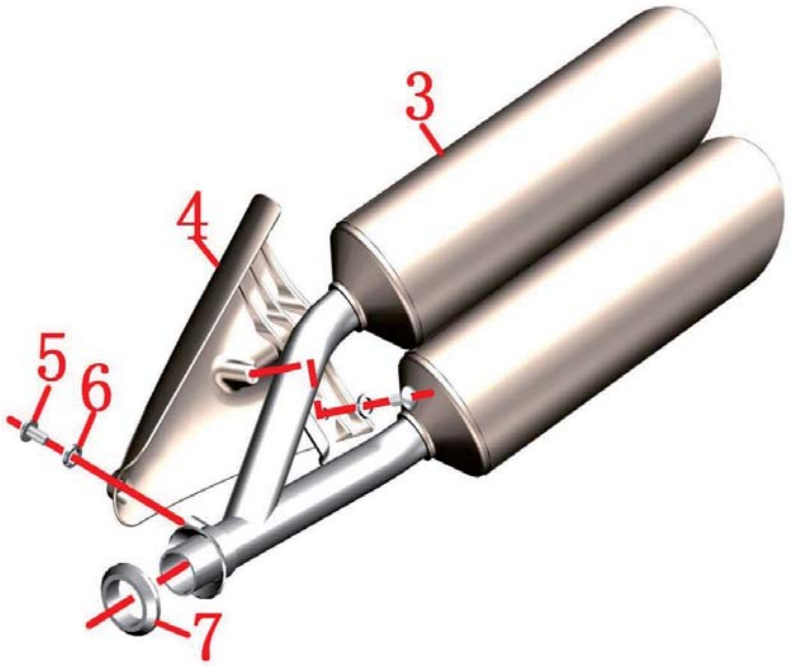


FIG.1 MUFFLER COMPONENT		Muffler rear assembly	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1250205-023000	GB70.1 Hexagon M8×35 (environmental color zinc)	2	
2	1274100-074000	ZT310-R Muffler clamp	1	
3	4024200-003035	ZT310-R Titanium rear muffler	1	
	4084200-001051	ZT310-R Dark gray rear muffler		
4	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:

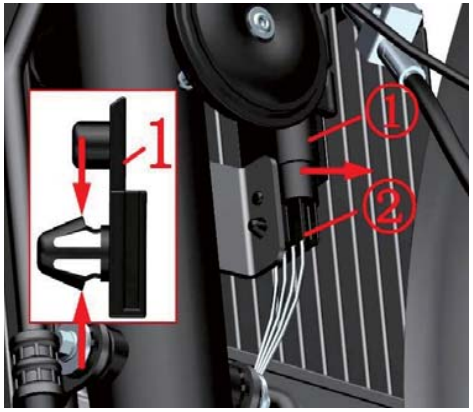
●The material should be protected during disassembly to prevent damage to the paint.

●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.



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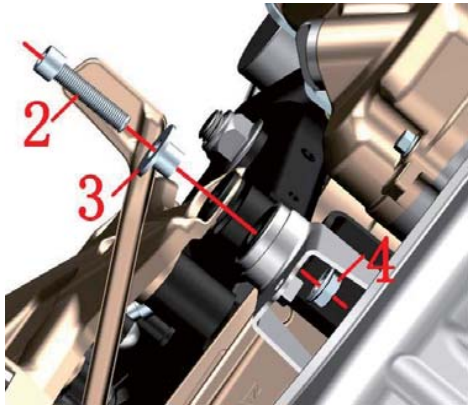
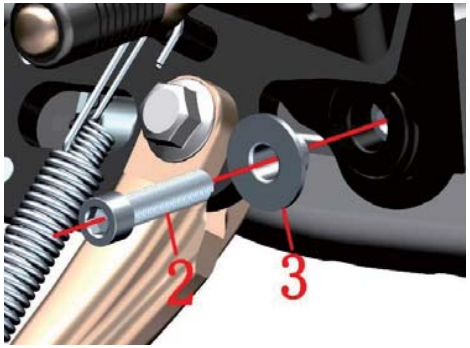


B

C



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.

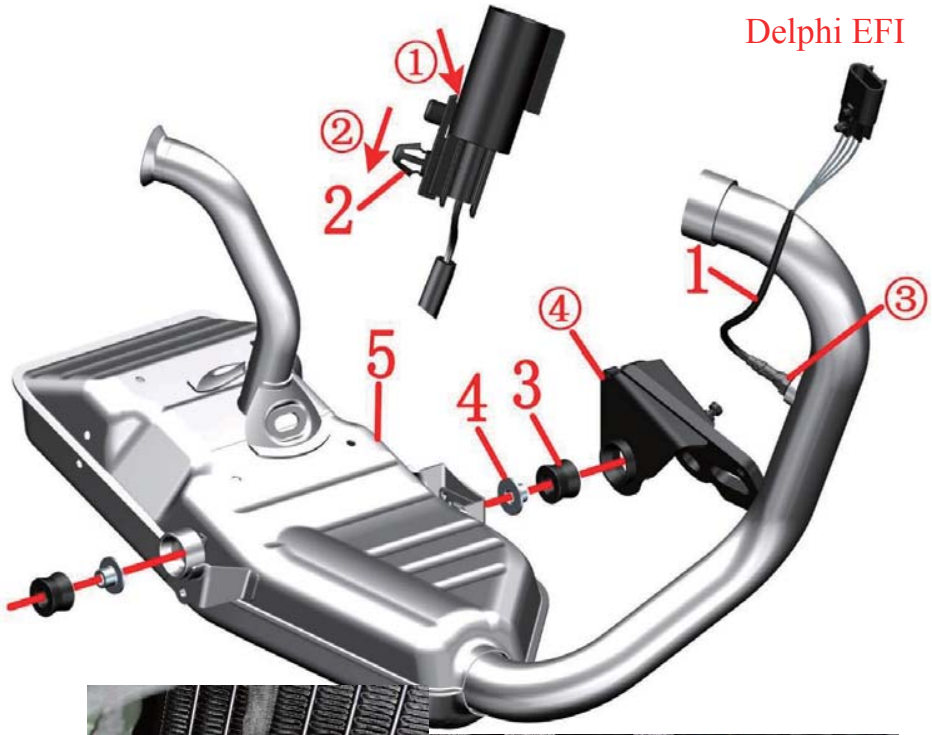


FIG.3 MUFFLER COMPONENT		Muffler front assembly 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1050953-008000	OSM planar oxygen sensor 25322728	1	Delphi EFI
	1050954-026000	LSF oxygen sensor		Bosch EFI
2	1224100-013000	ZT250-S Oxygen sensor fixing buckle	1	Delphi EFI
	1224200-008000	ZT310-R line card 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

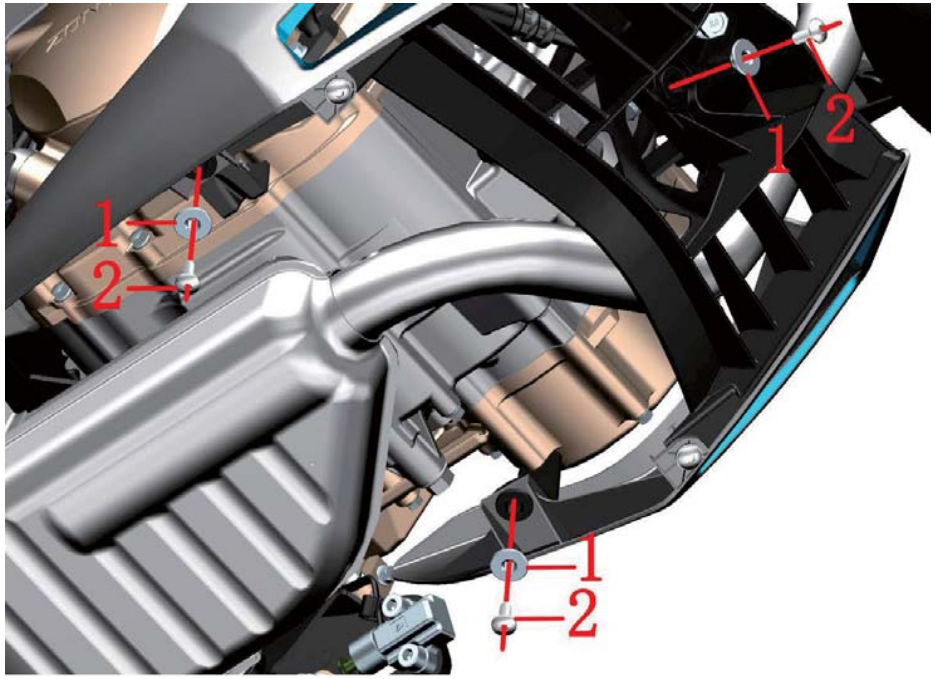
Remove the bushing(3) and cushion rubber(2) from the frame④.

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.



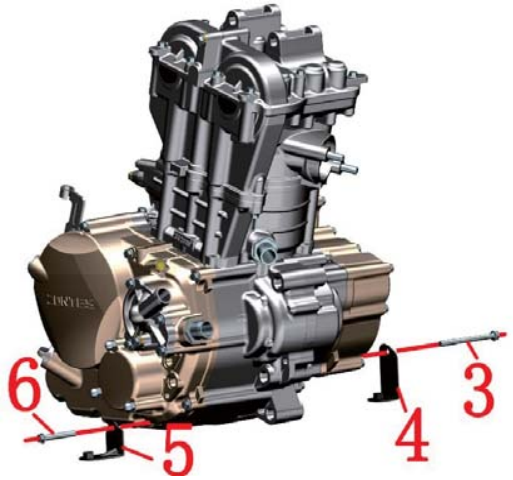


FIG.1 LOWER SHROUD COMPONENT		Lower shroud component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1274100-007000	ZT250-S flanging sleeve（φ6.4×φ9×6＋φ20×2）	3	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	3	
3	1251112-005093	M6×75 Hexagonal flange bolt (color zinc)	1	
4	1274200-015000	ZT310-R Lower shroud left bracket	1	
5	1274200-016000	ZT310-R Lower shroud right bracket	1	
6	1251112-003093	M6×45 Hex flange surface 9.8 bolts (color zinc)	1	

PROCEDURE:

●Lower shroud assembly

Raise the platform of the motorcycle and support the lower shroud assembly with one hand. Remove the 3 bolts(2) with the hexagonal tool and remove the flange bush(1).

Remove the shroud assembly and place it.

●Lower shroud bracket

Remove the bolt(3) with the sleeve and remove the left shroud bracket(4).

Remove the bolt(6) with the sleeve and remove the right shroud bracket(5).

CAUTION:

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

●The shroud should be supported during disassembly to prevent fracture due to uneven force.

●The bolts(3) and (6) must meet the standard torque and must be coated with a thread tightening glue.

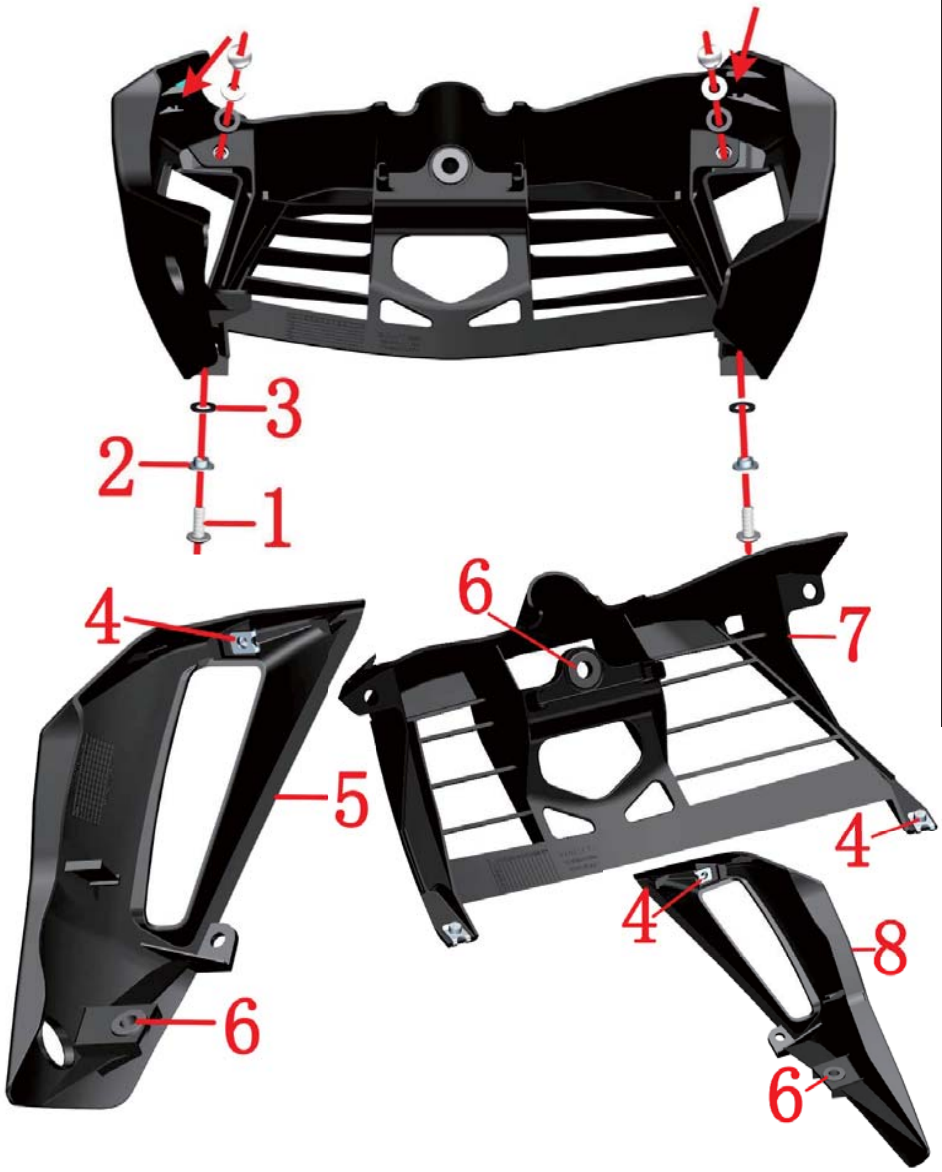


FIG.2 LOWER SHROUD COMPONENT		Lower shroud component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	REMARKS
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	4	
2	1274100-057095	Flanged bush φ6.2×φ8.4×3.5＋φ14×1.5	4	
3	1244100-052000	Flange bushing buffer (φ8.5×φ14×1)	4	
4	1251300-063093	Plywood M6×11×15 (environmental color)	4	
5	4044201-032052	Lower shroud left part（iron grey）	1	blue
	4044201-089051	Lower shroud left part（dark grey bright blue）		bright blue
	4044201-085051	Lower shroud left part（dark grey bright green）		green
	4044201-081051	Lower shroud left part（dark grey bright purple）		purple
	4044201-093021	Lower shroud left part（bright black）		black
	4044201-085011	Lower shroud left part（dark grey bright red）		red
	4044201-518051	Lower shroud left part（dark grey bright yellow）		yellow
6	1244100-004000	ZT250－S Flanging bushing buffer	3	
7	1224200-011000	ZT310－R Lower shroud middle part	1	
8	4044201-036052	Lower shroud right part（iron grey）	1	blue
	4044201-090051	Lower shroud right part（dark grey bright blue）		bright blue
	4044201-086051	Lower shroud right part（dark grey bright green）		green
	4044201-082051	Lower shroud right part（dark grey bright purple）		purple
	4044201-094021	Lower shroud right part（bright black）		black
	4044201-086011	Lower shroud right part（dark grey bright red）		red
	4044201-519051	Lower shroud right part（dark grey bright yellow）		yellow

PROCEDURE:

●Lower shroud assembly

Remove 4 bolts(1) and remove the flange bush(2) and pad(3).

Use a flathead screwdriver to open the snaps indicated by the arrows and separate the lower shroud assembly into three parts.

Remove the plywood nut(4) and cushion rubber(6) from the left part of the shroud(5).

●Shroud right part

Remove the plywood nut(4) and cushion rubber(6) from the right part of the shroud(8).

●Shroud middle part

Remove the plywood nut(4) and cushion rubber(6) from the middle part of the shroud(7).

CAUTION:

●The shroud should be well protected during disassembly to prevent breakage or paint scratches caused by uneven force.