ZONTES

ZT310-T (EURO IV/V)

Service manual

2021/12/11

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

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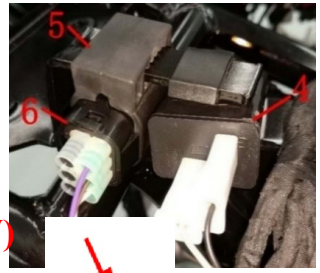
ZT310(230W)



ZT310(five wire)

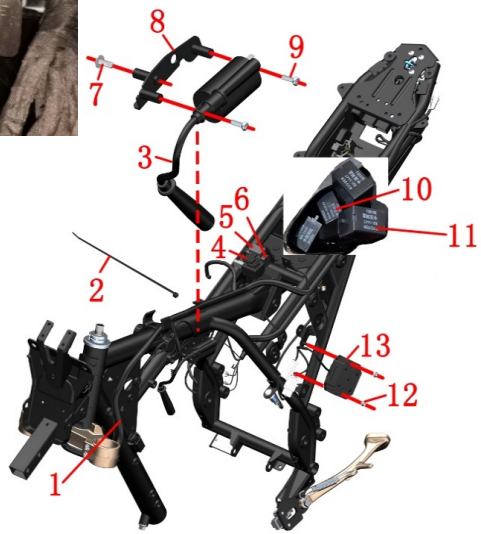


FIG.1 FRAME&ELECTRONIC PARTS COMPONENT		Electrical device component-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1184200-098007	ZT310－T1 Harness assembly	1	TFT Instrument
	1184200-046000	ZT310－T Harness assembly		
	1184200-164000	ZT310-T1 wiring harness assembly (Bosch ECU)		
2	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	20	
3		ZT310 EFI ignition coil	1	
4	1184200-039000	ZT310-R flasher	1	
5	1244100-082000	ZT250-R dump switch rubber sleeve	1	
6	1184100-002000	ZT250-S dump switch	1	
7	1251100-102000	Non-standard bolt M6×16（304 stainless steel）	1	
8	1274100-085000	ZT250-R ignition coil mounting bracket	1	
9	1250201-032093	GB818 M5×16（Environmental friendly color）	2	
10	1184200-024000	ZT310-R side bracket relay	1	G8HN-1C4T-RJ
11	1184100-017000	ZT250-S EFI Relay	2	KH-1A4T
12	1250303-010093	GB6177.1 M6（Environmental friendly color）	2	
13	1184200-033000	ZT310-R rectifier (for lithium battery)	1	lithium battery
	1184200-133000	ZT310 rectifier (230W)		colloid battery
	1184200-174000	ZT310 rectifier (five wire)		

PROCEDURE:

●Main harness

Unplug all electrical components connected to the main harness.Different connectors ,different operation,it according to the actual situation.It may use one word screwdriver,plier,scissors and so on.The cable tie(2) can be used to pick up the head restraint piece with scissors as shown on the left.

●Flasher and dump switch

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

●Relay and side bracket relay

Pull out the side bracket relay (10) and electric injection relay (11) directly.

●Ignition coil and support

Remove the crosshead bolts (9) with a cross screwdriver and remove the ignition coil(3). Use the inner hexagon tool to loosen the bolts(7) and remove the ignition coil bracket(8).

●Rectifier

Use sleeve to loosen the nut(12),and remove the rectifier(13). Note that the rectifier is not universal.The back of rectifier printed "ZT310(230W)" for the colloid battery,othervise for the lithium battery.

CAUTION：

●It needs to remove the head assembly, handlebar assembly,cushion and oil tank and so on.

●Pay attention to the direction and angle of force when plugging and unplugging the electrical device, so as to avoid bending the electrical device insert and causing poor contact.Prohibit violent operations.

●Pay attention to the limit boss of the bracket, beware of hurting your fingers when remove the flasher and dump switch rubber sleeve.

TFT Instrument

ZT310-X Electronic Instrument

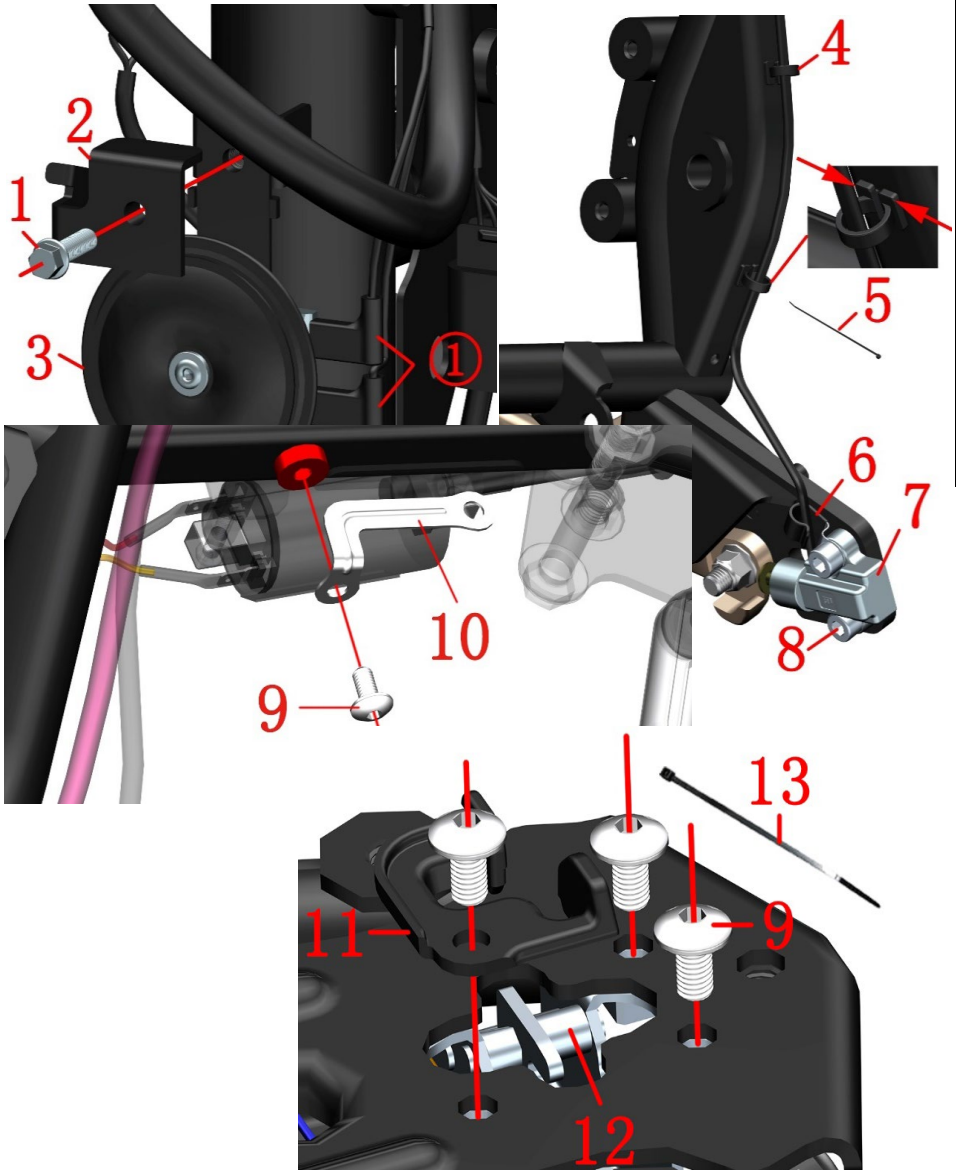


FIG.2 FRAME&ELECTRONIC PARTS COMPONENT		Electrical device component-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22Hex flange face full thread bolt	1	
2	1274200-033000	ZT310－R Front disc brake tubing bracket No. 2	1	
3	1184200-004000	ZT310 Horn	1	
4	1274100-017000	ZT250－SLine buckle	2	
5	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	2	
6	1274100-095000	Side bracket flameout switch wire fixing bracket	1	
7	1184100-012000	Side bracket flameout switch wire fixing bracket	1	
8	1250205-040095	GB70.1Hexagon socket bolt M8×16	2	
9	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
10	1274200-291000	ZT310-R ignition coil connecting bracket	1	
11	1224200-205000	ZT310 electronic cushion lock guide block	1	
12	1274100-058000	ZT310 electronic cushion lock	1	
13	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	2	

PROCEDURE:

●Horn

Pull off the horn plug①, One hang hold the horn(3) and the other remove the bolts(1) with tool, and move away the bracket(2)and remove the horn.

●Flameout switch

Find and unplug the flameout switch plug;The wire buckle (4) is pressed inward in the direction of the arrow shown and then pulled out forcefully, cut off the cable tie(5).Use the inner hexagon tool to loosen the bolt and remove the bracket(6) and flameout switch(7).

●Ignition coil connecting bracket

Remove the bolt (9) with a 4# hex wrench, then the ignition coil connecting bracket (10) can be taken off.

●Cushion lock

Find and pull off the cable connector of the cushion lock, cut off the cable tie(13), loosen the bolts(9) and remove the cushion lock guide block(11) and cushion lock(12).

CAUTION:

●Can't pull the cable directly when pull off the plug① and ②.

●Pay attention to the strength and direction of force when removing the buckle.

●Be careful not to overcharge the charging time. See the instructions for battery use and maintenance.

●From October 22, 2020,one guide block(11) have been added to the electronic cushion lock.

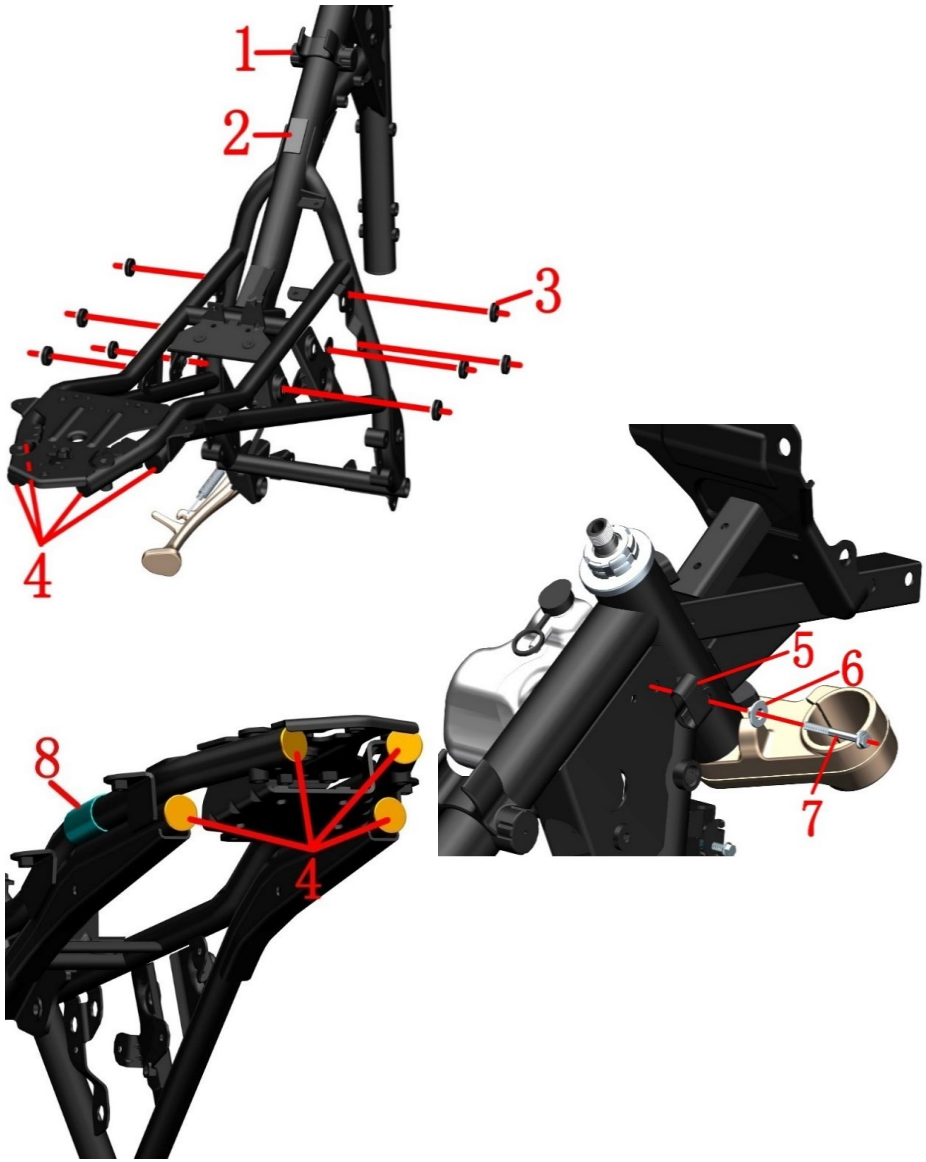


FIG.3 FRAME&ELECTRONIC PARTS COMPONENT		Frame plastic component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-019000	ZT250－S Tank liner limit glue	1	
2	1240300-007000	HJ125－6 Battery pad	1	
3	1244100-002000	ZT250－S Side cover round glue	10	
4	1244100-061000	ZT250 Frame waterproof rubber stopper	4	
5	1224200-016000	ZT310－R Clamp	1	
6	1274100-007000	ZT250－S Flanging bushing(φ6.4×φ9×6＋φ20×2)	1	
7	1250105-236093	GB5789 M6×55（Environmental color）	1	
8	1240100-023000	battery anode protection glue	1	colloid battery

PROCEDURE:

●Tank liner limit glue

Hold the inner limiting rubber with both hands (1) and pull the cylindrical part at both ends to remove it.

●Side cover round glue

Remove the side cover round glue(3) with your hands directly.

●Frame waterproof rubber stopper

Remove the frame waterproof rubber stopper with your hands directly.

●Calmp

Remove the cable from the clamp, hold the vice water tank with one hand, the loosen the bolt(7) with the other hand, remove the bushing(6) and clamp(5).

●Battery pad

Remove the battery pad (2) directly by hand and clean the remaining glue.

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

CAUTION:

●First remove the cushion, oil tank outside cover, oil tank liner, side cover and tail skirt and so on.

●All parts should be properly assembled in place.

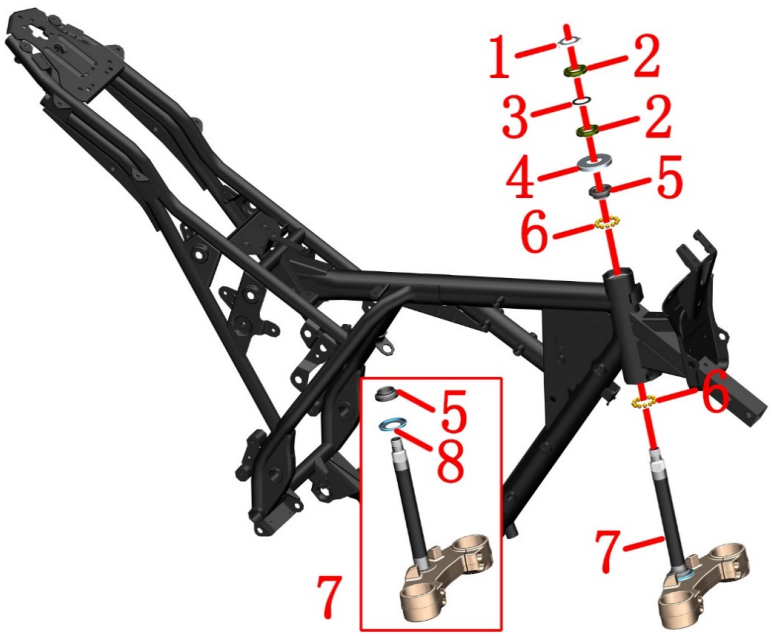


FIG.4 FRAME&ELECTRONIC PARTS COMPONENT		Steering rack component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1134100-007000	ZT250－S Adjust nut lock washer	1	
2	1251300-046093	ZT250－S Directional column adjustment nut M24X1	2	
3	1244100-015000	ZT250－S Adjusting nut pad	1	
4	1224100-005000	ZT250－S Dust cover to the column	1	
5	1130900-024000	ZT250－S Shaft ring	1	
6	1130900-022000	ZT250－S Siamese steel ball	2	
7	1134100-015000	ZT250－S Lower joint plate (homemade / with bead top) component	1	
8	1224100-006000	ZT250－S Directional column dust cover	1	

PROCEDURE:

●Remove the cylinder

Remove the lock washer(1). Use the special four-jaw sleeve or hook wrench to remove the upper adjustment nut (2).

Remove the rubber pad(3).

Hold the lower connection board assembly(7) in one hand,and loosen the adjustable nuts(2) with the special four-jaw sleeve or hook wrench in the other hand.

Remove the upper dust cover(4) .

Remove the lower connection board assembly(7) .

Remove the shaft ring (5) and the connecting steel ball (6) on the upper part of the front riser. Remove the connecting steel ball on the lower connection board assembly(7).

●Installation:

When reassembling, the joint steel balls should be evenly coated with grease, pay attention to the amount of grease.

The adjusting nut close to the upper dust cover (4) requires a torque of about 14 N.m, so that it can be flexibly rotated without jamming.

The upper adjustment nut only needs to be screwed to the bottom nut groove, and should not be too tight to prevent the rubber pad (3) from being deformed too much.

CAUTION：

●It needs to remove the head assembly,handlebar assembly and front shock absorber at first.

●Pay attention to fixing the vehicle to be repaired during the disassembly process to prevent accidents caused by dumping.

●Check whetreher there are some abnormal phenomena such as partial grinding and rust on the connecting steel ball. If there are, please go to Shengshi official website to buy regular accessories. If not, be sure to clean the old grease and then smear.Must check the joint ball for missing when reassembling.

●It is reasonable to adjust the steering tightness. If it is too loose, it will cause slight shaking and abnormal noise when the front of the vehicle is in emergency braking. If it is too tight, the rotation will be inflexible, resulting in safety hazards.

●If you have the ability and have the right tools, you can replace the shaft collar (5) and the lower dust cover (8) at the lower joint assembly. Pay attention to the protection of the lower plate during the replacement process; after replacement, be sure to check the parallelism between the column and the shock absorbing hole, and the verticality of the column and the lower plate.

●When the front fork has a slight sway or the steering wheel swings while braking.

First check whether the front tire pressure is the recommended air pressure at normal temperature: normal temperature: standard 250kPa.

● If it is lower than the recommended air pressure, first inflate the front tire air pressure to 350kPa, and then deflate to the test drive to check whether it is released. If the front wheel is otherwise lifted and turned to check the tread, if it is eccentric or deformed, the front tire needs to be replaced. If you need to re-adjust the adjustment nut.

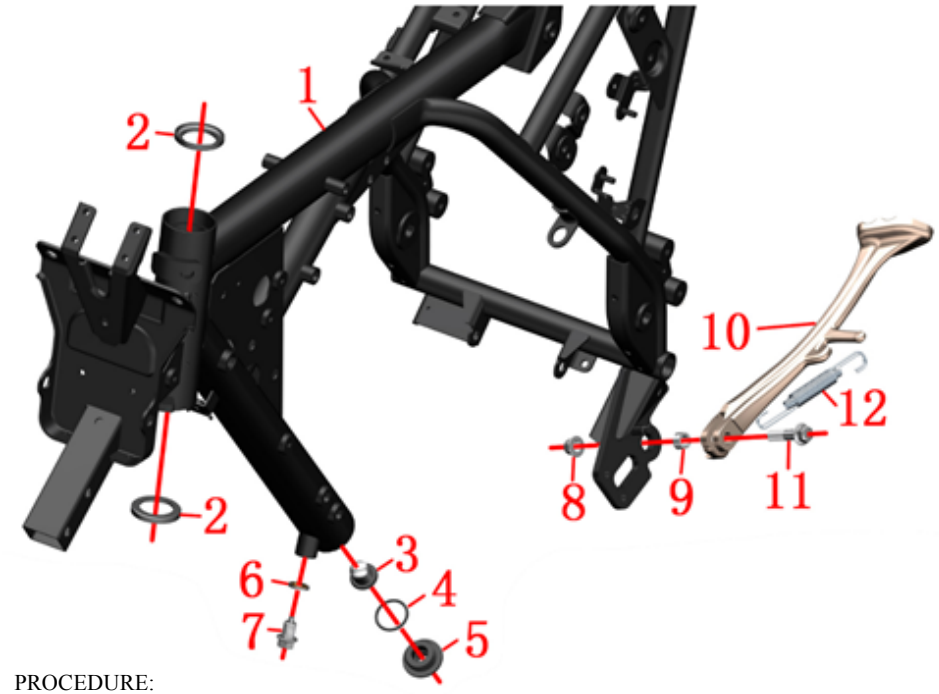


FIG.5 FRAME&ELECTRONIC PARTS COMPONENT		Frame, Side support, the operation of releasing engine oil	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4014200-010000	ZT310－T Frame after sale assembly	1	
2	1130900-026000	ZT250－S Seat ring	2	
3	1274100-006000	ZT250－S Frame oil filter	1	
4	1051453-003000	27.4×2.65 Acrylate rubber O-ring	1	
5	1274100-024000	ZT250－SOil-cooled joint	1	
6	1244100-033000	Combination sealφ12×φ20×2	1	
7	1251100-066093	M12×1.5×15 Oil drain bolt(Environmental color)	1	50±4N.m
8	1251300-057093	Non-standard bolt M10×1.5（Dacro）	1	45±5N.m
9	1251700-025091	ZT250－S Side bracket bushing	1	
10	1274200-200000	ZT310－T Side bracket (short)	1	a
	1271200-165000	ZT310－T Side bracket (short/dark gray)		
	1274200-070000	ZT310－T Side bracket		b
	1274200-289000	ZT310－T Side bracket (dark gray)		
11	1251100-088094	Non-standard bolt M10×1.5×43(Dacro)	1	
12	1264100-001000	ZT250－S Side bracket spring	1	

PROCEDURE:

●Check the seat ring

Check whether there is worn on seat ring(2),and If there is,please purchase and replace it on Shengshi official website.Press the seat in place with a suitable tool and apply grease.

●Replace the oil filter.

Place the oil plate underneath and remove the oil-cooled joint(5), O-ring (4), and oil filter(3) with appropriate tools. When replacing the oil filter (3), the O-ring (4) must be replaced at the same time. Always tighten the oil-cooled fitting (5) to the standard torque value during reassembly.

●Let out the oil in the frame tube

Place the oil plate underneath and remove the oil drain bolt(7) and seal(6) with a suitable tool,exhust the oil from the frame tube. Refer to the instructions for detailed steps to replace the oil. It is recommended to replace the oil drain bolt(7) and the seal(6) at each time to change the oil to prevent oil leakage.

●Side bracket

Use a Phillips screwdriver to remove the side bracket spring(12) to prevent personal injury when the spring is retracted; remove the nut(8) and bolt (11) with a suitable tool; remove the side bracket(10) and bushing(9). When reassembling, the bushing(9) is first greased and placed in the frame (1).The side bracket a is a low seat version and b is a high seat version.

CAUTION：

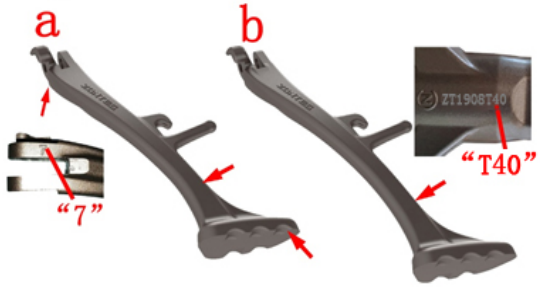
●Remove first the wind deflector COMPONENT, handle bar COMPONENT, steering column COMPONENT.

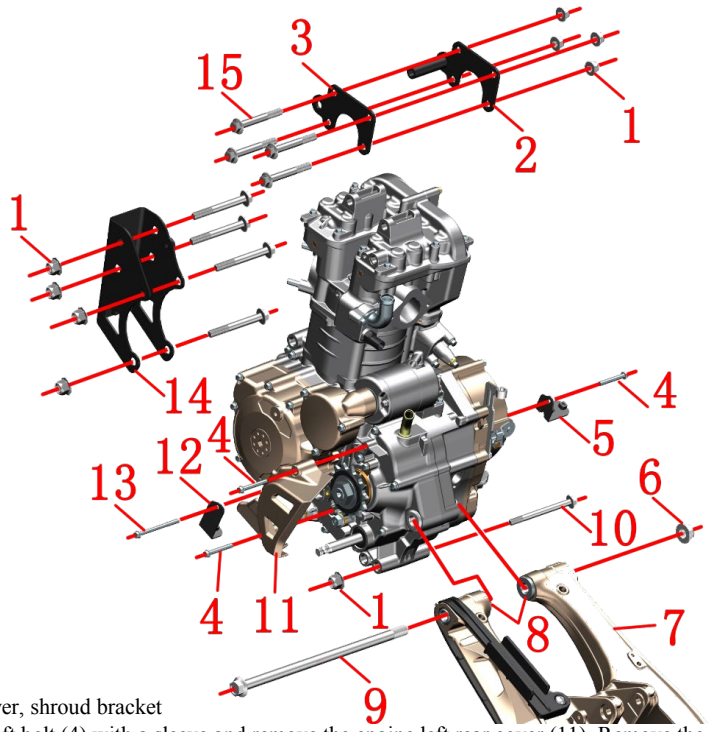
●The seat ring should be greased to reduce the resistance of the front fork.

●The wasted engine oil should be recycled and handed over to a qualified institution for disposal.It is forbidden to dump and pollute environment or water source.

● Be careful when disassembling the side bracket springs. All parts should be properly assembled in place.

●Side stand "a" Type :Side stand "a" Type :the bottom edge has a jagged shape and number "7" is matched with the ZT310-X front shock absorber;Side stand "b" Type :matching ZT310-T (40) front shock absorber use. The letters behind the ZT+4 number on the inside of the bottom cylinder represent the shock-absorber models, such as “X”, “T40”. For example, ZT1908T40: "ZT" stands for ZONTES, "1908" stands for August 2019, and "T40" is the shock absorber model. Different models have different shock absorber lengths, so be careful to distinguish them clearly.





FRAME&ENGINE		Frame&Engine	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-057093	Non-standard nut M10×1.5（Dacro）	9	65±5N.m
2	1020242-186000	ZT310－R Right hanging piece	1	
3	1020242-185000	ZT310－R Left hanging piece	1	
4	1251112-003093	M6×45 Hexagonal flange face 9.8 level bolt.（color zinc）	3	12±1.5N.m
5	1274200-066000	ZT310－T Lower shroud right bracket	1	
6	1251300-059093	125 Rear fork shaft nut M14×1.5（Dacro）	1	110±5N.m
7	4024100-024000	ZT250 Aluminum alloy rear fork assembly (including bearing / oil seal)	1	
8	1274100-009000	ZT250－S Rear fork bushing	2	
9	1252200-016093	250 Rear fork shaft 14×310（Dacro）	1	
	4050854-002051	ZT310-R engine left rear cover (dark gray)		
10	1251100-086093	Non-standard bolt M10×1.5×112（Dacro）	1	
11	4044201-022051	ZT310－R Engine left rear cover	1	
12	1274200-065000	ZT310－T Lower shroud left bracket	1	
13	1251112-005093	M6×75 Hexagon flange bolt（environmental color zinc）	1	12±1.5N.m
14	4024200-005000	ZT310－R Bracket	1	
15	1251100-132003	Non-standard bolt M10×1.5×80（Dacro）	8	

PROCEDURE:

●Engine left rear cover, shroud bracket

Remove the engine left bolt (4) with a sleeve and remove the engine left rear cover (11). Remove the bolts (13) and (4) with the sleeve and then remove the left and right brackets (12) and (5) of the shroud. Reinstall the bolts (13), (4) back into the engine to prevent oil leakage.

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

First, cover the head of the bolt (9) with a sleeve, and then remove the nut (6) with a sleeve. Other parts cannot be removed.

●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). Use the sleeve to cover the head of the bolt (10) then dismantle the nut (1) with the sleeve. Remove the bolt.Both persons hold the left and right boxes of the engine. One person takes the bolt (5) 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.

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.

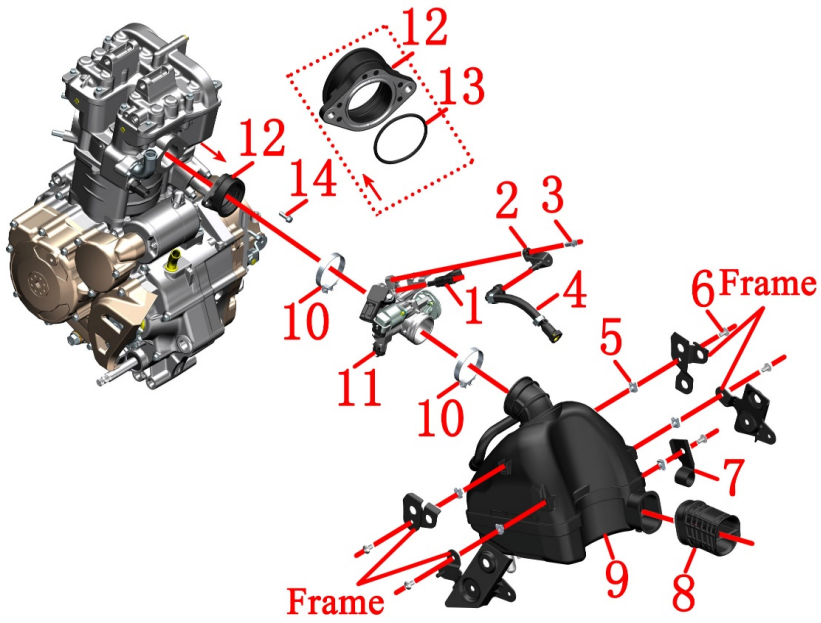


FIG.1 INTAKE SYSTEM COMPONENT		Intake system component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1050954-007000	39－N008 Fuel injector	1	
2	1050954-008000	39－N008 Fuel injector fixator	1	
3	1251112-001093	M6×16 Hexagon flange bolt（color zinc）	1	
4	1050954-006000	ZT250-R Fuel injector high pressure 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.

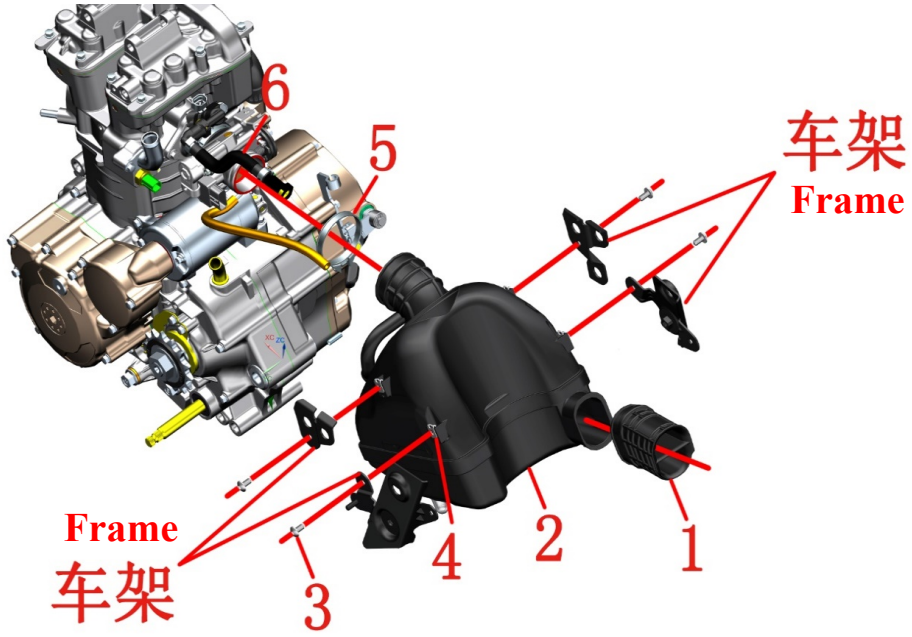


FIG.2 INTAKE SYSTEM COMPONENT		Intake system component(Bosch) 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244200-017000	ZT310－R Air filter large air inlet	1	
2	1224200-171000	ZT310-T1 Air Filter (Bosch)	1	
3	1251100-101000	Non-standard bolt M6×12（304stainless steel）	4	
4	1251300-063093	Plywood M6×11×15（Environmental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

CAUTION:

●high-pressure fuel pipe

First press the high-pressure fuel pipe (6) close to the snap ring on the fuel pump connector and pull it out directly. A small amount of fuel in the fuel pipe needs to be filled with an oil can to prevent fuel from dripping onto any parts. Then press the ring near the throttle body to pull out the high-pressure fuel pipe, as shown in the lower right figure. Strictly prevent smoke and fire during disassembly.

●Air filter

First remove the bolt (3); loosen the hose clamp assembly (5) on the side of the air filter, clamp the clamp on the exhaust pipe with pliers and pull out the exhaust pipe connecting the exhaust port of the engine, and then use the glue that was distributed with the bike . Plug it properly to prevent foreign matter from entering and damaging the engine. Remove the air filter (2), splint nut (4); finally pull out the air inlet (1).

CAUTION:

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

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

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

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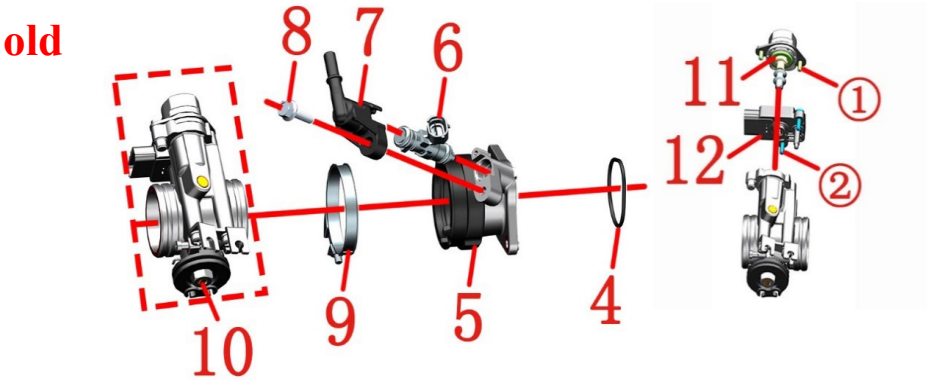
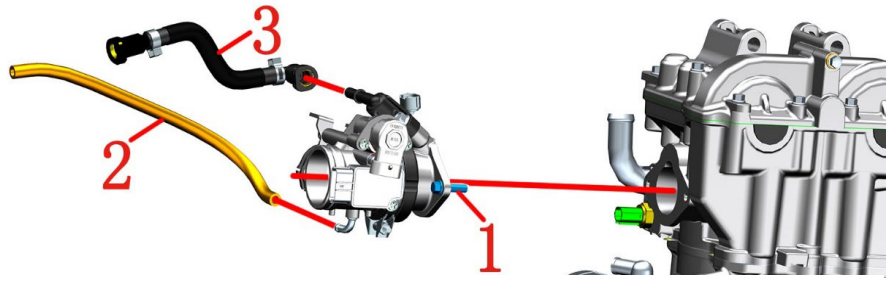
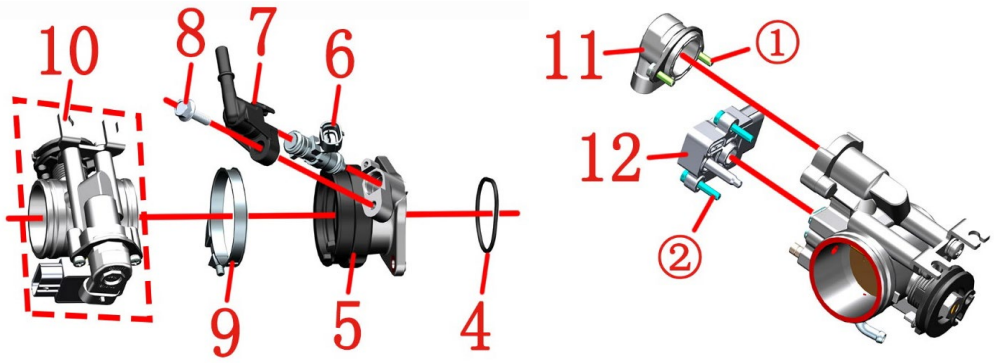


FIG.3 INTAKE SYSTEM COMPONENT		Intake system component (Bosch EFI)2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Hexagon flange bolt（color zinc）	2	
2	1244200-117000	ZT40 Throttle valve desorption rubber tubing	1	
3	1050954-035000	ZT310-R Fuel injector high pressure oil pipe unit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

new





PROCEDURE:

●Throttle assembly

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

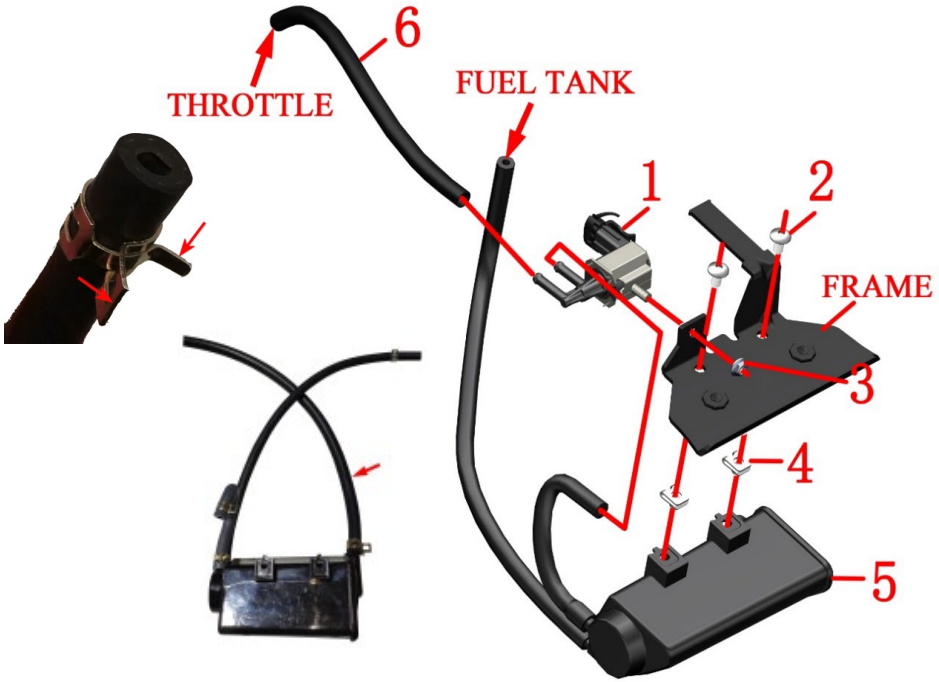


Fig.2 INTAKE SYSTEM COMPONENT		Canister assembly	CHK / ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1050954-009000	YH canister solenoid valve	1	
2	1251100-101000	Non-standard bolt M6×12（304stainless steel）	2	
3	1250303-010093	GB6177.1M6（environmental color）	1	
4	1251300-063093	Plywood M6×11×15（environmental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

PROCEDURE:

●Carbon tank

Use a pair of pliers to clamp the pipe clamp at the outlet of the oil separator at the bottom of the tank liner and remove the oil pipe.Remove the bolt(2) with the inner hexagon tool.Remove the carbon tank(5) from the left of the frame and remove the plywood but(4).

●Desorption pipe

Clamp the pipe clamps at both ends of the desorption pipe with pliers and remove the desorption pipe(6).

●Canister solenoid valve

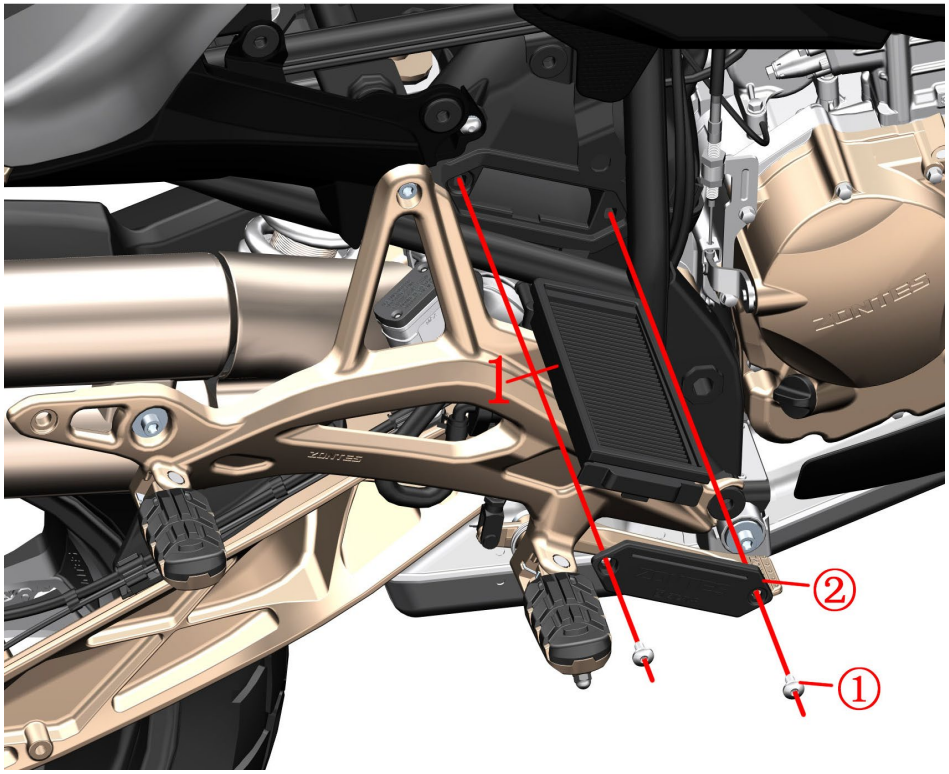
First remove the connector of the canister solenoid valve(1), then remove the nut(3) with the sleeve and remove the solenoid valve.

CAUTION:

●It needs to remove the cushion,side cover oil tank outside cover and liner in advance.

●Regularly check the carbon canister and air filter element for poor ventilation. Otherwise, the oil supply may affect the driving experience.

●There should be no folding or entanglement in the pipeline.



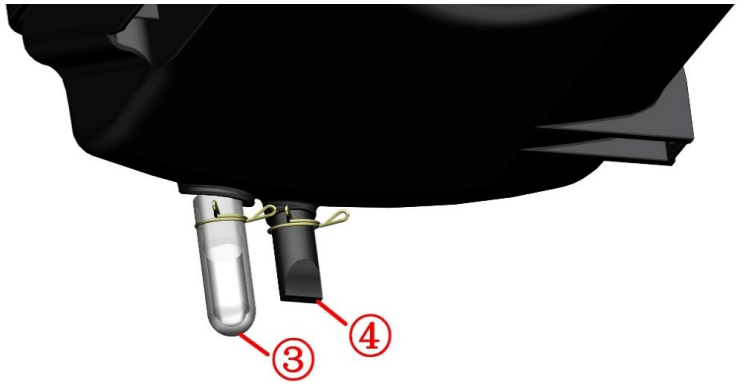


Fig.3 INTAKE SYSTEM COMPONENT		Replace air filter element	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4134200-002000	ZT310－R Air filter element（carton packaging）	1	

PROCEDURE:

●Air filter element

If you need to maintain the air filter element, first remove the cushion, right side cover and so on. Remove two standard parts① on the air filter with the tool, remove the box cover②and then pull off the air filter element. Use a blow gun to blow from the dusty side of the filter element and blow off the dust on the surface of the filter element. If the blow is reversed, the dust cannot be cleaned, which may cause engine damage or increased intake resistance, which may affect the driving experience. If there is any damage, please log in to Shengshi official website to purchase additional parts after sale. Make sure the assembly is in place during assembly.

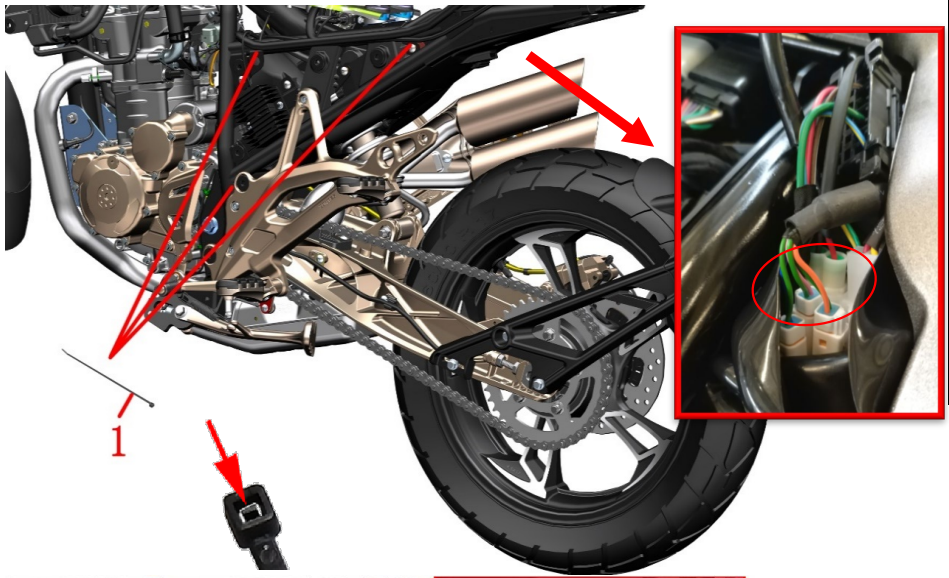
●Oil accumulation pipe and water supply pipe

When flushing the motorcycle, avoid water entering the inside of the air filter; a small amount of water can be removed and the accumulated oil pipe (3) and water pipe (4) can be removed. Make sure that there is no water inside to start the engine. The oil storage pipe should be inspected regularly. If the accumulated oil is more, it should be released in time.

CAUTION:

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

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



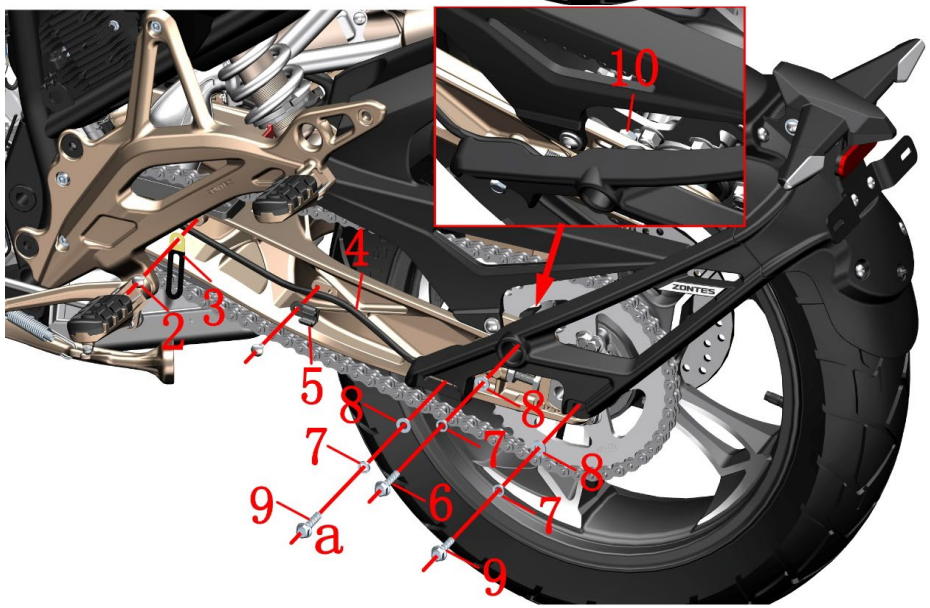


Fig.1 REAR WHEEL COMPONENT		Rear sub mudguard component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-037000	0 degree antiflaming cable tie（black3.6×295）	3	
2	1251100-101000	Non standard bolt M6×12（304 stainless steel）	2	
3	1270300-273000	φ8 cleat（L=73）	1	
4	1184200-030000	ZT310－R sub mudguard connecting cable(L=2000)	1	
5	1224200-003000	ZT310－Z rear disc brake oil tube cleat	1	
6	1250105-143093	GB5789M8×35（environmental color zinc）	1	
7	1250501-007093	GB93φ8（environmental color zinc）	3	
8	1250503-021093	GB97.1φ8（environmental color zinc）	3	
9	1250105-148093	GB5789M8×30（environmental color zinc）	2	35～40N.m
10	1250303-011093	GB6177.1M8（environmental color zinc）	1	35～40N.m

PROCEDURE:

●Rear vice fender assembly

Find interface a and unplug three plugs.

Cut off or use a tool to untie the cable tie.

Pull straight the clip(3).Remove bolt(2), take off the clip(3) and disc brake oil pipe clamp(5).

Use plum blossom wrench to tightent the nut(10) and disassemble bolt(6) which is close to "ZONTES" mark with a sleeve.And remove the spring pad(7),flat pad(8)and nut(10).

Hold the Rear vice fender assembly and disassemble bolt(6) and bolt(9) with a sleeve. Take off spring pad(7) and flat pad(8).

Take off the Rear vice fender connecting cable and rear vice fender assembly.

CAUTION:

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

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

●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.

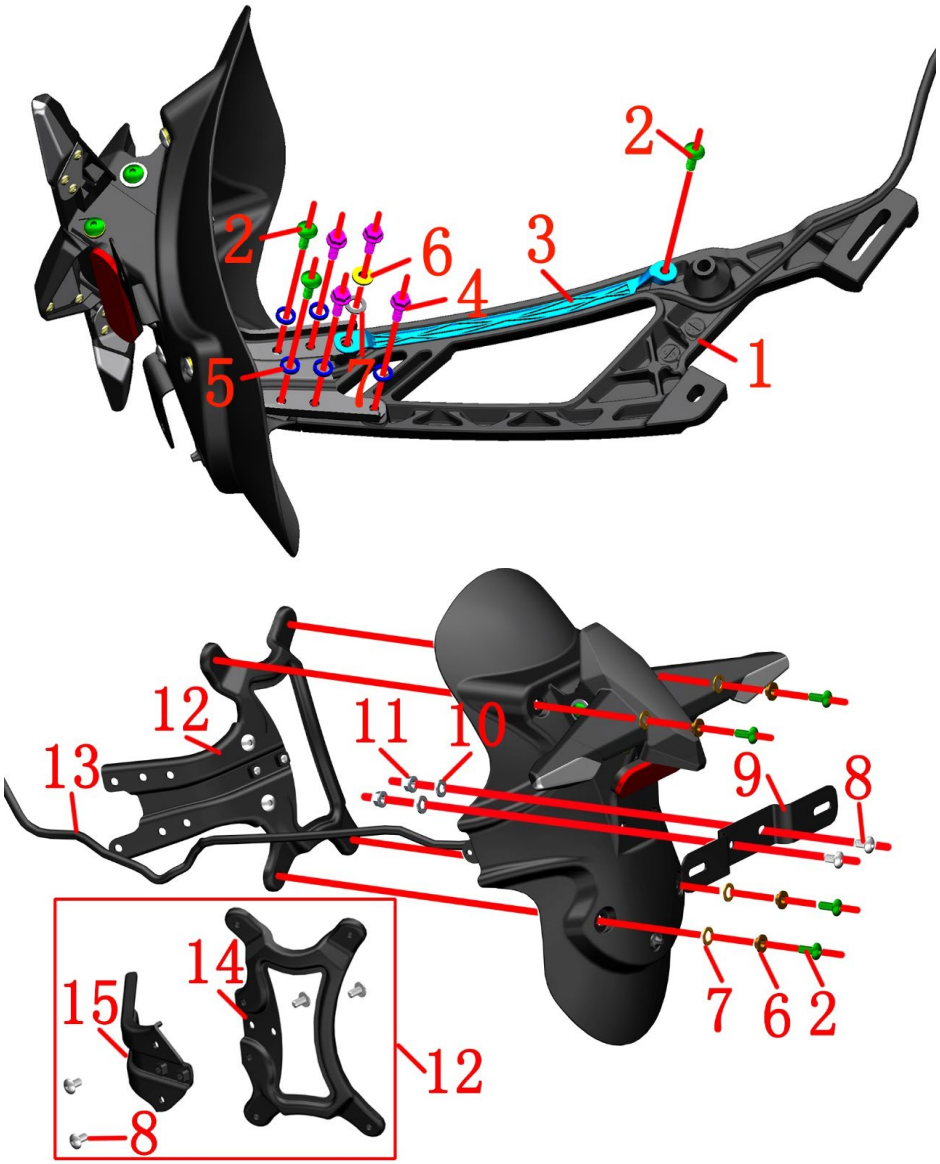


Fig.2 Rear wheel, swinging arm component		Rear sub mudguard component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1020242-263021	Rear auxiliary mud plate aluminum alloy bracket (home made)	1	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	7	
3	1224200-090000	Rear auxiliary mud board 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)	6	
9	1270300-039000	HJ125-6 rear license plate bracket	1	
10	1250503-021093	GB97.1φ8 (environmental color)	2	
11	1250303-010093	GB6177.1M6 (environmental color)	2	
12	4024200-102000	ZT310-R rear sub-plate iron bracket (Improvement)	1	
13	1184200-030000	ZT310-R sub-mud board adapter cable (L=2000)	1	
14	4024200-036000	ZT310-V rear auxiliary fender iron support rear section	1	after-sale
15	4024200-101000	ZT310 rear auxiliary fender iron support front section	1	

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(2) and 3 pcs of (4)， then remove 5 pcs of spring washer(5).

●Back license plate bracket assembly

Remove the bolt(8) and nut(11) at the license bracket(9) and remove the license bracket(9)and gasket(10).

●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(12)and rear turn signal assembly.

The old one-piece iron bracket has been discontinued, and the integrated iron bracket assembly (12) needs to be replaced. The assembly already contains the front section (15), the rear section (14) 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.

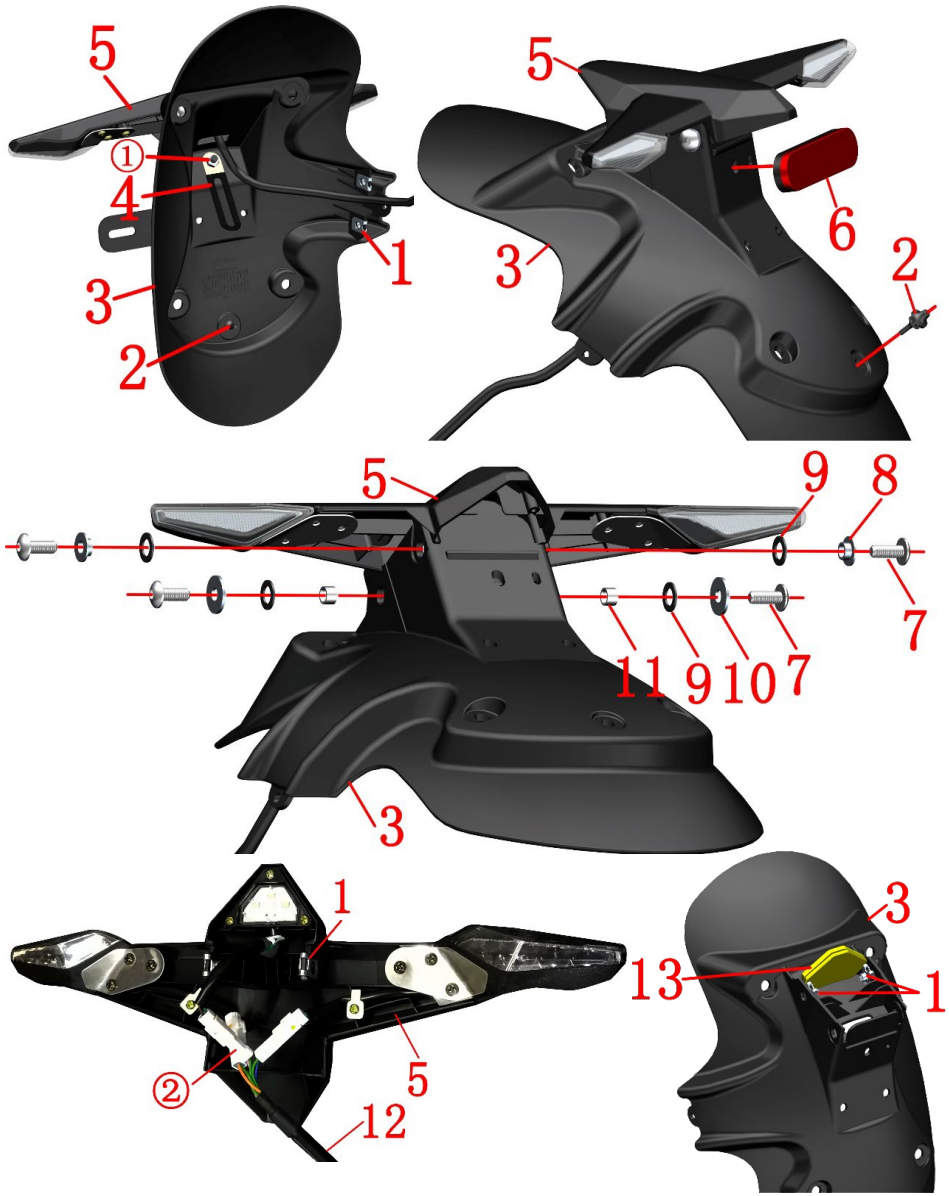


Fig.3 REAR WHEEL COMPONENT		New rear sub-mud component 3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-063093	Plywood M6×11×15（environment color）	6	
2	1244100-006000	ZT250－SRear license plate buffer rubber	1	
3	1224200-091000	ZT310－RRear auxiliary mudguard fender（250R、310R/X/T）	1	
4	1270300-273000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

PROCEDURE:

●Back reflector, license plate cushion rubber

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

●Steering lights, fender sub-assemblies

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

●fender sub-assembly

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

●turn signal subassembly

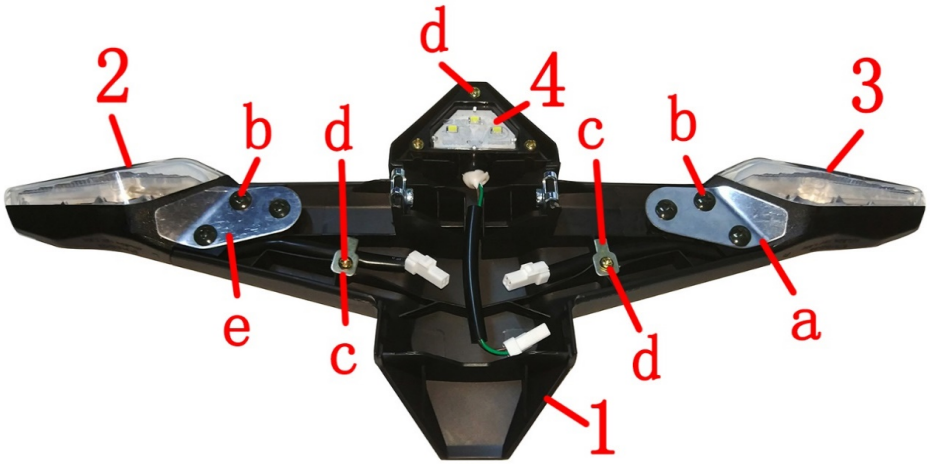
Remove the 2 plywood nuts(1) from the turn signal(5). Remove the 3 joints of② and remove the sub-mud switch cable(12).

CAUTION:

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

●When reassembling, check if there is any pressure on the wire to prevent it from tightening. Short circuit caused by bolts. Pay attention to the lamp connector, do not insert the wrong, turn left Green + orange; right turn signal is green + blue; license plate light is green + pink.

●Add a rubber plug on March 11,2019.



ZT310－X Rear left turn signal

ZT310－X Rear right turn signal

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

PROCEDURE:

●Rear license light

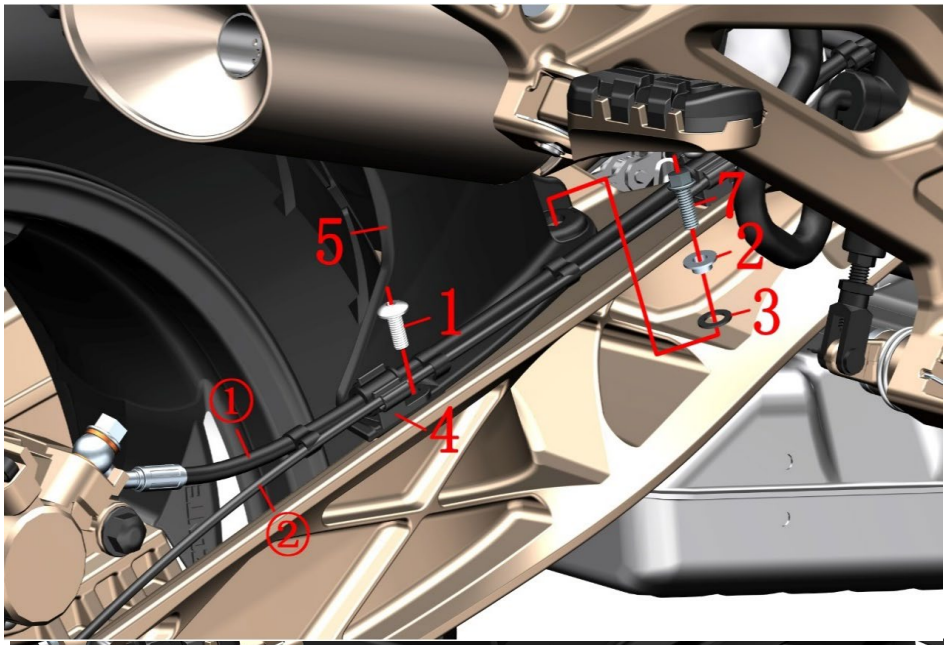
Grip the rear turning light bracket(1) then disassemble three bolts "d" on the license light(4).

●Rear turning signal

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

CAUTION:

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



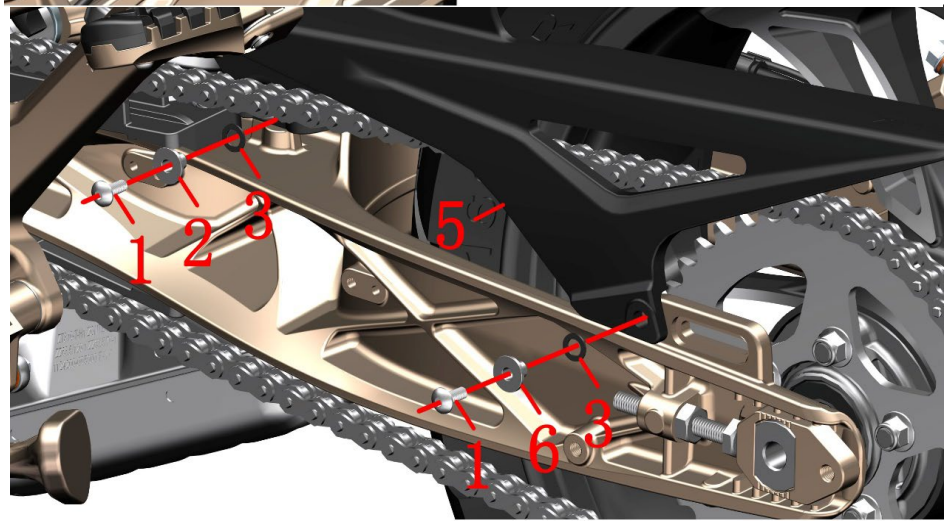


Fig.5 REAR WHEEL COMPONENT		Rear inner mudguard	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16（stainless steel）	4	
2	1274100-057095	Flanging bushingφ6.2×φ8.4×3.5＋φ14×1.5	2	
3	1244100-052000	Flanging bushing buffer rubber (φ8.5×φ14×1)	3	
4	1224200-003000	ZT310－ZRear disc brake pipe clamp	1	
5	1224200-094000	ZT310－R Rear inner fender	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:

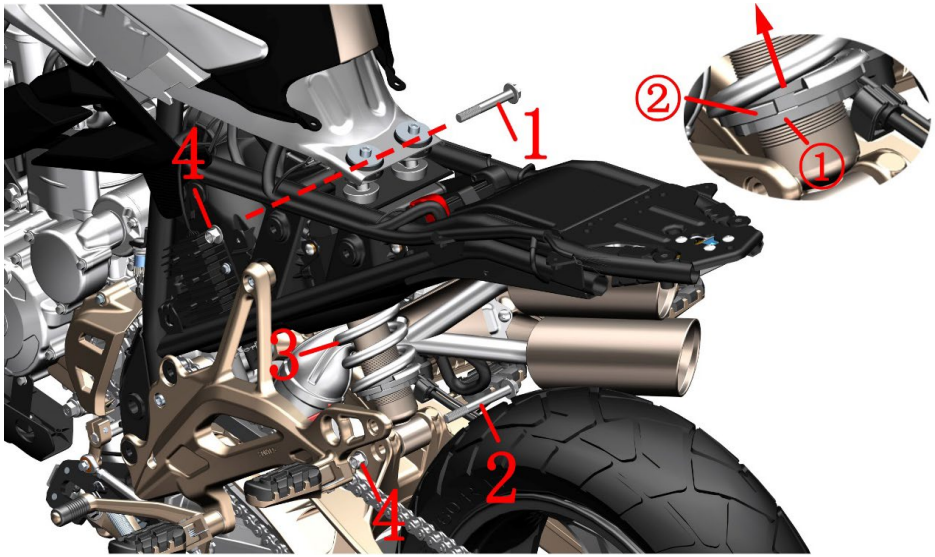
●Rear inner mudguard

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.



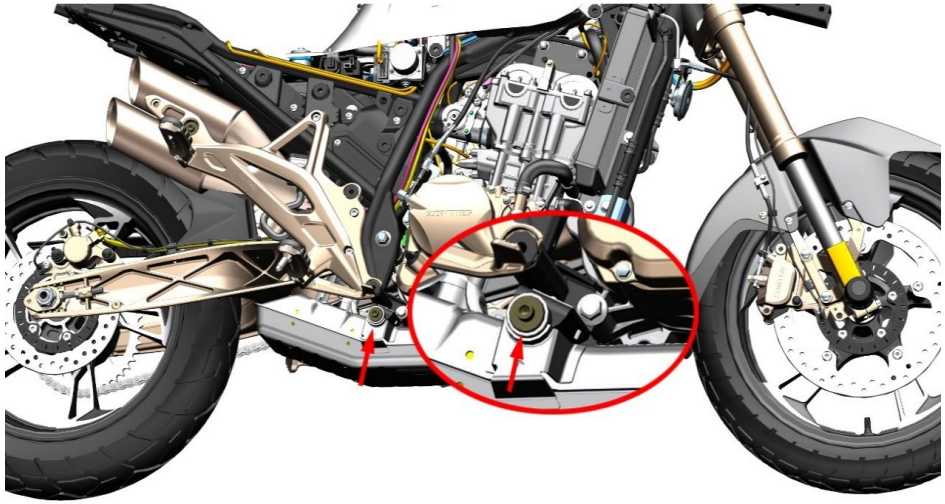


Fig.6 REAR WHEEL COMPONENT		Rear shock absorber	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-085093	Non-standard bolt M10×1.5×75（Dacro）	1	
2	1251100-060000	Non-standard bolt M10×1.5×90（Dacro）	1	
3	1114200-020000	ZT310－X Rear shock absorber (improved)	1	a
	1114200-019000	ZT310－T Rear shock absorber (improved)		b
4	1251300-057093	Non-standard bolt M10×1.5（Dacro）	2	45±5N.m

PROCEDURE:

●Rear shock absorber

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

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

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

●Adjust the rear absorber

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

CAUTION:

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

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

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

●It can be distinguished by the lettering in the front left or front right shock absorber. "a" is the front shock absorption lettering corresponding to the short seat version is “ZT****X”, "b" is the high seat version corresponding to the lettering “ZT****T40”, and 4 “*” represents the production year and month.

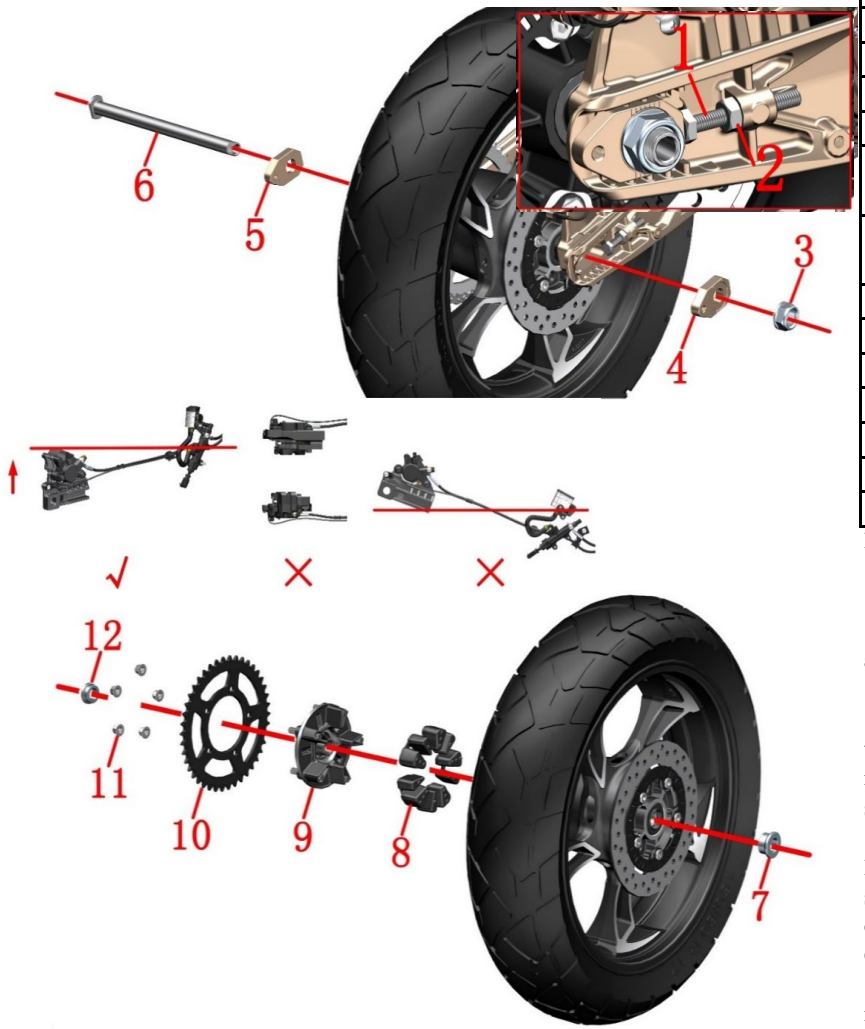


Fig.7 REAR WHEEL COMPONENT		Rear wheel component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-105000	Chain adjuster bolt M10×70（304stainless steel）	2	
2	1251300-050000	Chain adjuster nut M10（304stainless steel）	2	
3	1251300-067000	ZT250－RRear wheel hollow shaft nut	1	110N.m
4	1032142-073035	ZT310 Right chain adjuster(Titanium)	1	
	1032142-075051	ZT310 Right chain adjuster(dark gray matte)		
5	1032142-072035	ZT310 Left chain adjuster (Titanium)	1	
	1032142-074051	ZT310 Left chain adjuster (dark gray matte)		
6	1094100-032000	ZT250－R Rear wheel hollow shaft nut	1	
7	1274200-002000	ZT310Rear wheel right sleeveφ20×φ28×φ38×18.5	1	
8	1244200-050000	ZT310－T Sprocket cushion rubber	5	
9	1094200-011000	ZT310－R Second generation sprocket seat	1	
10	1080100-068000	ZT310－T 520－42T Sprocket	1	
11	1251300-057093	Non-standard nut M10×1.5（Dacro）	5	45±3N.m
12	1274100-106000	ZT250－R rear wheel left sleeveφ20×φ30×φ35×12.9	1	

PROCEDURE:

●Rear wheel assembly

Disassemble rear wheel axle nut (3) 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.The oil seal type of the sprocket seat is φ52×φ30×7;Bearing type: 6205.

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.

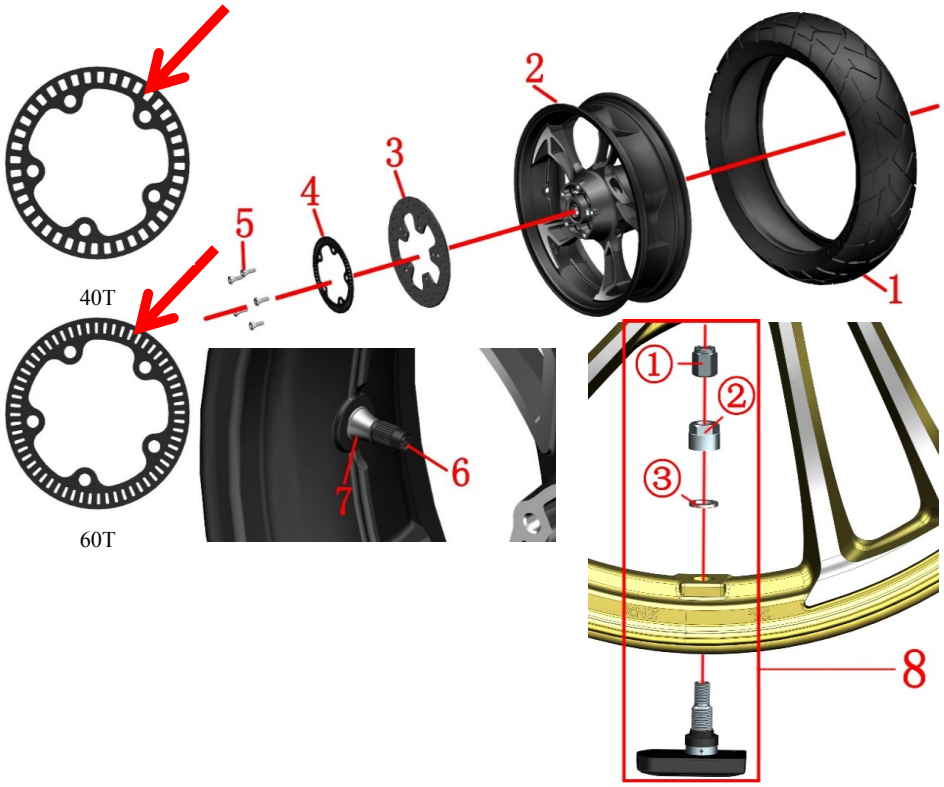


Fig.8 REAR WHEEL COMPONENT		Rear wheel component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1230100-385000	ZT310－T 160/60R17(CM509P) tyre	1	
	1230100-232000	ZT310－T 160/60R17(CM509) tyre		
2	1094200-020000	ZT310－T black rear rim（4.5×17）	1	
3	1100100-419000	ZT310－R1 rear disc brake plate（230×4.5）	1	
4	1274200-058000	ABS induction ring gear (60 teeth)	1	
	1274200-168021	ABS induction ring gear (40 teeth)		
5	1251100-117093	Non standard hex socket bolt M8×25	5	22～24N.m
6	1230200-006000	HJ100－D tire valve cap	1	EURO IV
7	1230100-047000	HJ125－3A environmental tubeless tire valve	1	
8		ZT310 tire pressure sensor	1	EURO V

CAUTION:

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

●After changing the tire, check air proof performace and dynamic balance.

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

●Insufficient tire pressure can cause abnormal wear; there is a risk of puncture in summer tire pressure.

●After the new brake disc is replaced, it should be carried out for about 300 kilometers to fully achieve the best braking effect. Pay attention to leave enough braking distance during running-in.

PROCEDURE:

●Disc brake plate, ABS gear ring

Disassemble bolt (5) with socket sleeve. Then take down the ABS gear ring (4) and the disc brake plate(3). Note that the ring gear of the rear wheel has two kinds of 40and 60 teeth matching 17-inch front wheels; Some vehicles produced in late May 2019 and before that are 40 teeth, after that are 60 teeth.

●EURO IV:Tire and rim assembly

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 then take off.

●EURO V:Tire pressure wireless built-in sensor

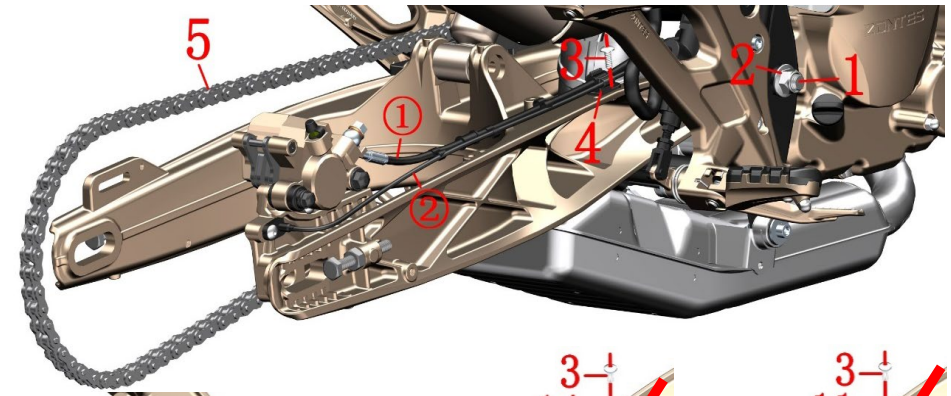
Remove the valve cap① that comes with the tire pressure wireless built-in sensor,use a tool to release the air, and then use a professional tire puller to remove the rear tire (1), taking care to avoid the tire pressure sensor. Finally, use a 12# wrench to remove the valve nut ② and the flat washer ③, and then remove the tire pressure sensor.

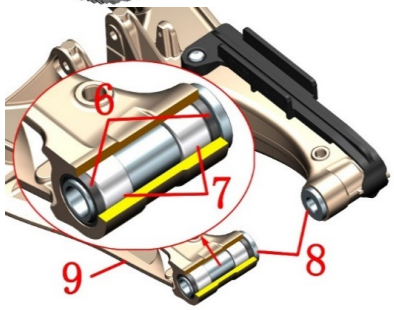
●Maintenance

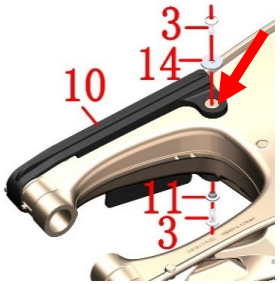
Tire: Check regularly the tire on cracks and air pressure.If the tire is ware to the marker, change the tire with same specification. See details in user manual. Ingradiant of tire include semi hot melt rubber. Area with too high temperature is not suitable. If temparature of outdoor is too low, storing 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.

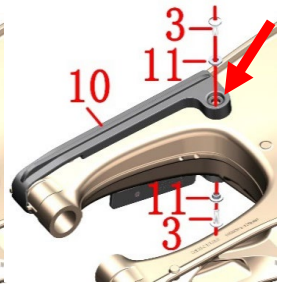
Disc brake plate: Thickness can not be less than 4mm. If not, change it.





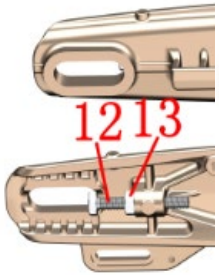


Improvements rear fork anti-bearing block



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 WHEEL 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	ZT250 dark gray aluminum alloy rear 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.

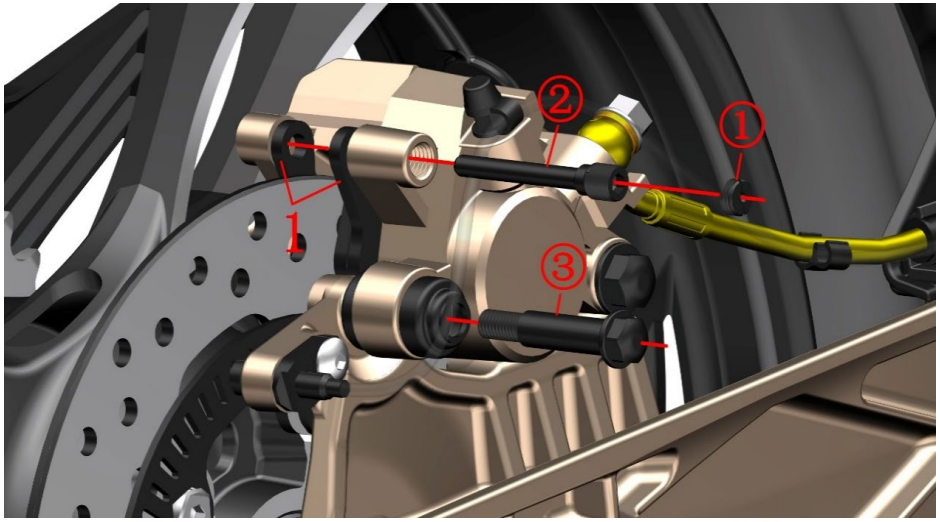
Oil seal (6) and needle bearing (7) are used for interference compression.

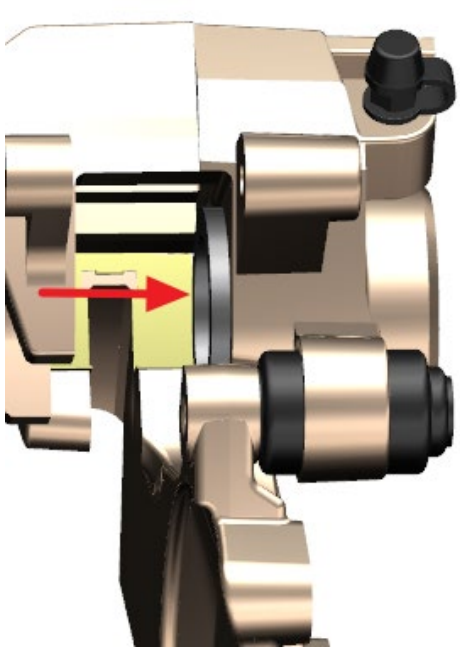
Please ensure that you have the ability to disassemble and disassemble.

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.

●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.





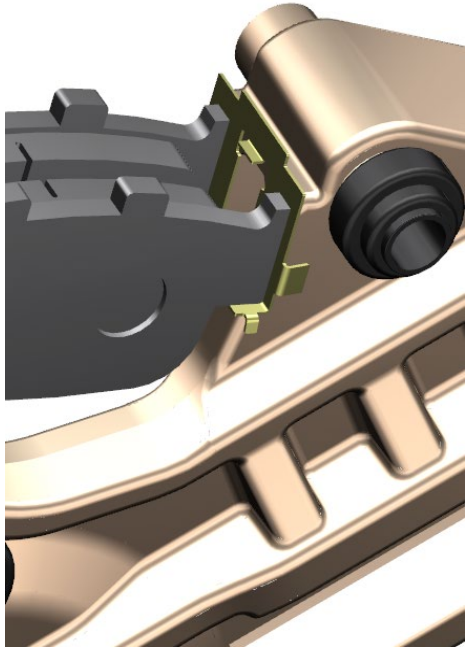


Fig.10 REAR WHEEL COMPONENT		Change rear brake arresters	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1100100-092000	ZT250－S rear disc brake arrester(HS10)	1	

PROCEDURE:

●Disassemble disc brake pad

Use slotted screwdriver to disassemble nut①.

Disassemble pin axle② with inner hex socket tool.

Disassemble rolling axle③ with socket sleeve.

Take off rear disc brake pad(1).

●Replace rear disc brake pad

Push the caliper piston all the way to the direction of the arrow, as shown in the lower left corner. In order to reduce the resistance, the cross bolt on the oil cup of the rear brake main pump can be removed first, and the upper cover and the sealing rubber pad are removed; it should be restored in time after being pushed to the bottom.

The new brake pad must to be fitted tightly the slot. As show in figure below.

Tighten the pin axle② with inner hex socket tool.

Tighten rolling axle③ with socket sleeve.

Tighten nut① with slotted screwdriver.

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

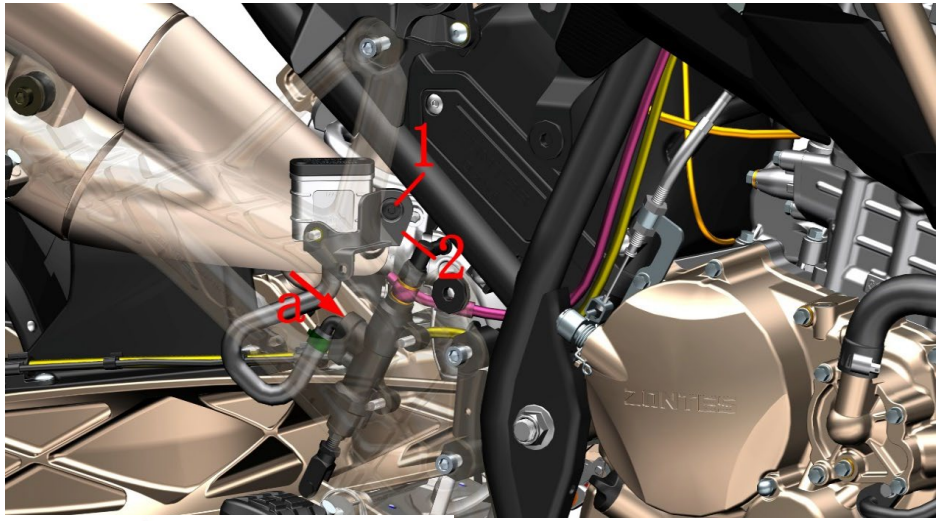
CAUTION:

●Check regularly the brake pad and disc brake plate status.

●To change brake pad in qualified mainenance spot are suggested.

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

●After the new brake pads are replaced, it should be carried out for about 300 kilometers to fully achieve the best braking effect. Pay attention to leave enough braking distance during running-in.



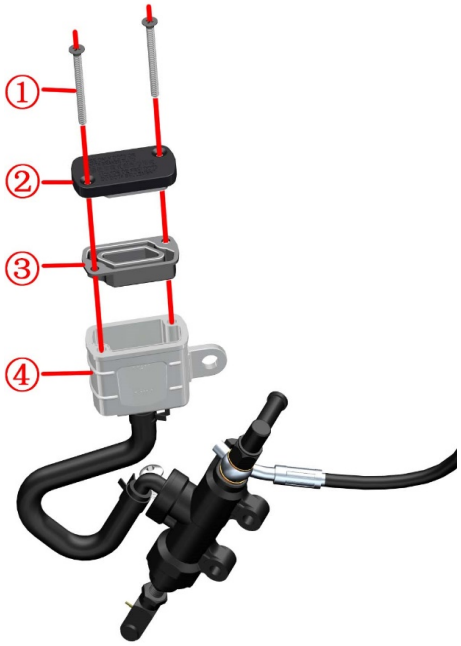


Fig.11 REAR WHEEL COMPONENT		Rear disc brake main pump adding braking liquid	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S Expansion nail	1	
2	1224200-055000	ZT310－R rear disc brake oil cup bracket	1	

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".

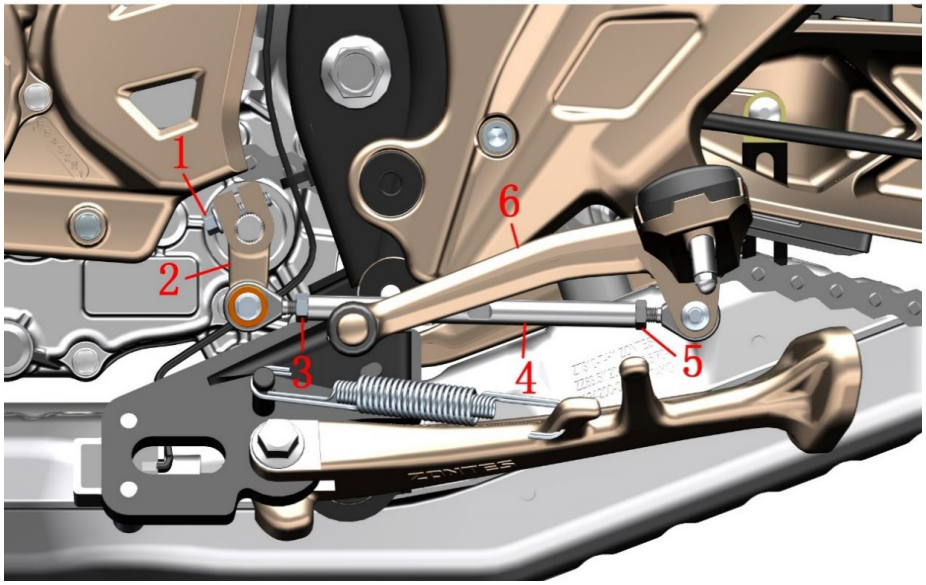
●If liquid surface is below "LOWER", check the arrester status and confirm if the braking system is leaking.

●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.



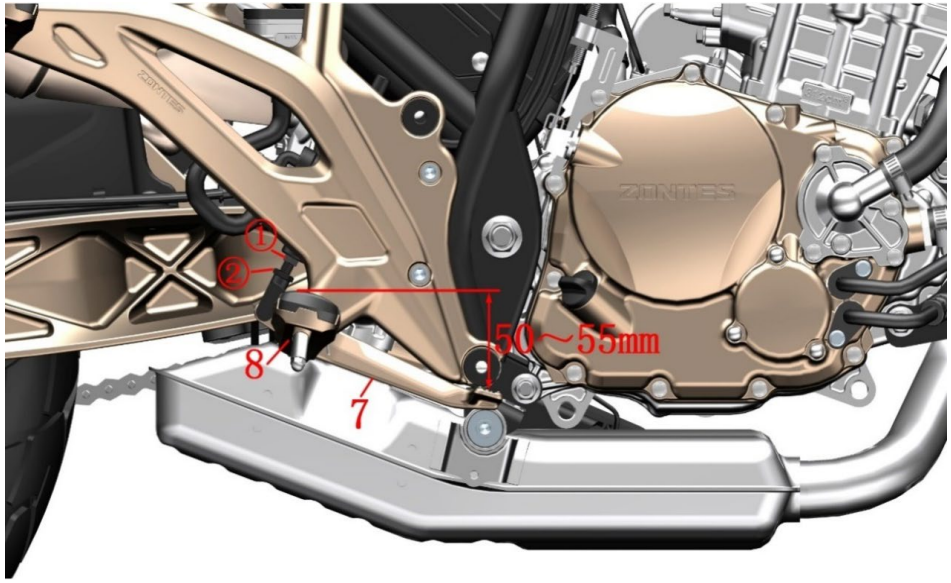


Fig. 1 FOOT PEDAL COMPONENT		Pedal adjustment	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Hexagon flange face bolt full thread 8.8	1	
2	1274100-039000	ZT250-S shift lever spline rocker arm	1	
3	1250301-020093	GB6170 M6 (environmental color)	1	
4	1274200-003000	ZT310-R shift lever adjustment screw φ10×130	1	
5	1250301-018093	GB6170 M6-LH (environmental color zinc)	1	
6	1274200-160000	ZT310-T shift lever pedal rocker	1	
7	1274200-010000	ZT310-R brake pedal	1	
8	1274200-194000	ZT310-T front right pedal assembly (improved)	1	

PROCEDURE:

●Variable lever height adjustment

Use an open-end wrench to loosen the nut (3) and the nut (5) to the direction of the arrow. Use an 8# open-end wrench to adjust the groove position on the adjustable screw to the appropriate height, and then lock the nut. If it cannot be adjusted to the proper position in the above method, the bolt (1) can be removed. Use a slotted screwdriver to pull the spline rocker arm (2) in the middle slot slightly and pull it out, adjust it to the appropriate height and assemble it. Note the groove in the middle of the alignment spline.

●Brake pedal height adjustment

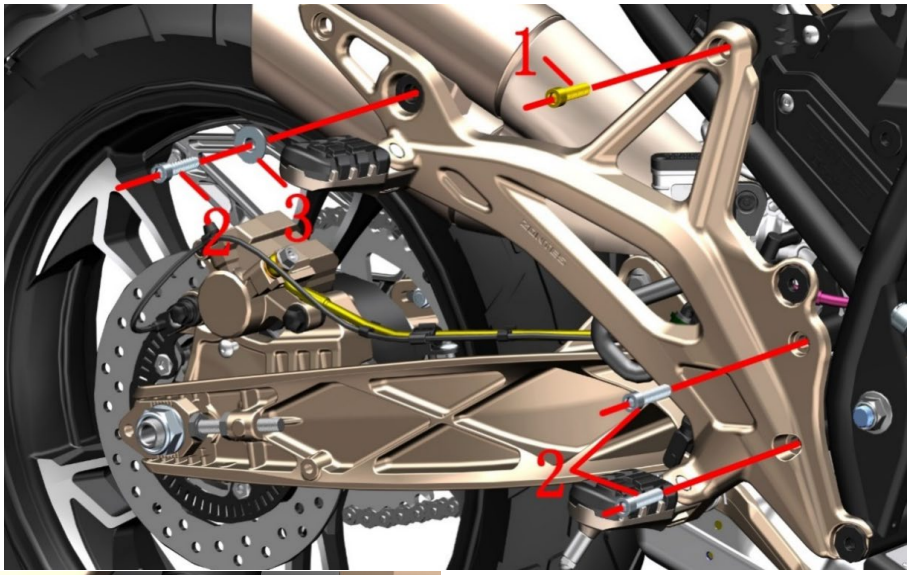
Use an open-end wrench to loosen the nut②to the direction of the arrow. Rotate the adjustable screw①to adjust the foot pedal position of the brake pedal (7) to 50~55mm below the top surface of the pedal assembly (8). Fix the adjusting screw① and lock the nut②.

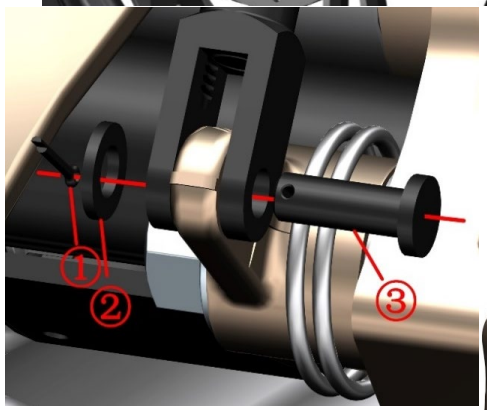
CAUTION:

●The vehicle should be supported during the adjustment process to prevent accidental injury caused by dumping.

●The height of the shift lever pedal arm should be reasonable, otherwise it will affect the driving experience.

●The height of the brake pedal should be reasonable, otherwise the brake disc and the brake disc will always rub against the service life, and in severe cases, the brake maybe invalid.





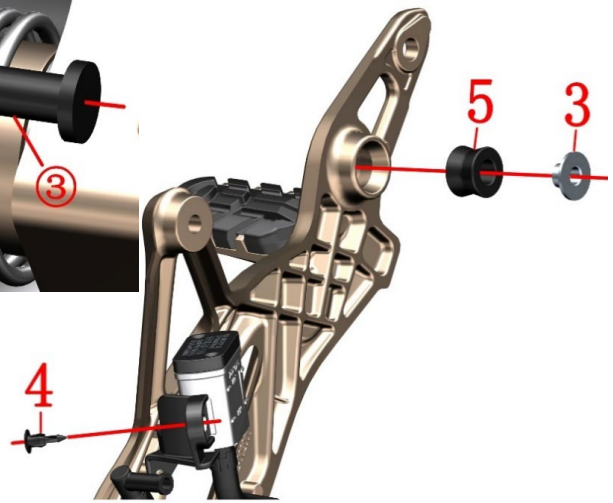


Fig. 2 FOOT PEDAL COMPONENT		Right footrest component-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-034093	GB70.1 Inner hexagon M8×30 (environmental color	1	
2	1250205-023000	GB70.1 Inner hexagon M8×35 (environmental color	3	
3	1274100-068095	ZT310 Muffler flanged bushing	2	
4	1224100-010000	ZT250-S Expansion nail	1	
5	1244100-064000	ZT310 Muffler buffer rubber	1	

PROCEDURE:

●Right footrest assembly

Use the pliers to straighten the split pin ① and remove it, then remove the spacer ② and the pin ③.

Fix the rear of the muffler and then remove the bolts (2) at the rear of the footrest and remove the bushing (3).

Remove the front bolts (1), (2).

Turn to the back and remove the bushing (3) and cushion rubber (5). Remove the expansion screw (4).

CAUTION:

●When flipping to the back, the footrest and nearby parts should be protected from scratching the surface.

●Pay attention to the force when turning over to prevent damage to the disc brake tubing.

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

●The rear disc brake oil cup cannot be lower than the oil pipe joint on the rear disc brake main pump.

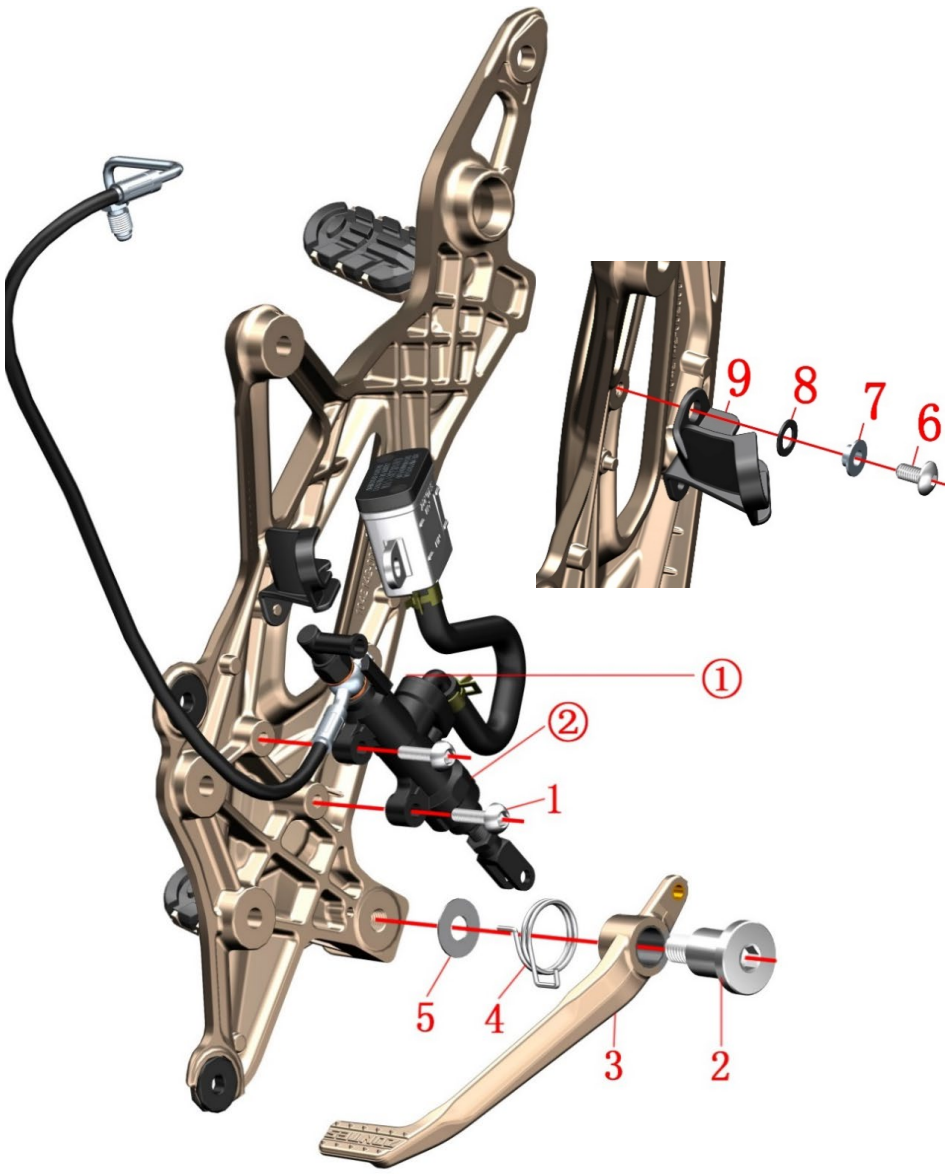


Fig. 3 FOOT PEDAL COMPONENT		Right footrest component-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-121093	Non-standard bolt M6×25 (environmental color)	2	
2	1251100-131000	Non-standard shaft bolt M10×1.5×36	1	
3	1274200-010000	ZT310-R brake pedal	1	
	1274200-300051	ZT310-R brake pedal(Dark gray)		
4	1260100-119093	ZT310-R brake pedal torsion spring	1	
5	1251500-060095	Non-standard flat pad φ10.5×φ26×1	1	
6	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	1	
7	1274100-057095	Flanging bushing	1	
8	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	1	
9	1224200-055000	ZT310-R rear disc brake oil cup bracket	1	

PROCEDURE:

●Rear disc brake main pump component

Remove the bolt (1); the rear disc brake oil cup must not be lower than the oil pipe joint ① on the rear disc brake main pump ②.

●Brake pedal component

Remove the bolt (2); pull the brake pedal (3) out; remove the brake pedal torsion spring (4) and washer (5).

●Rear disc brake oil cup bracket

Remove the bolt (6) and remove the flange bushing (7), rubber pad (8), and rear disc brake oil cup bracket (9).

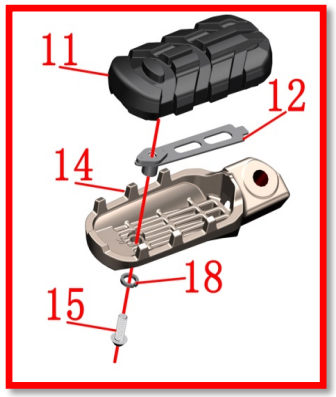
CAUTION:

●Apply grease evenly to the inner surface of the brake pedal bushing to reduce brake pedal resistance.

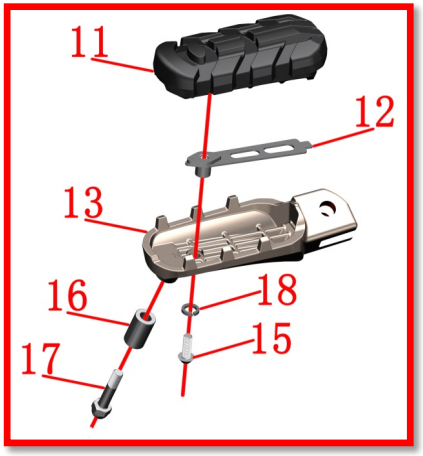
●When reassembling, pay attention to the torsion spring to be inserted into the reserved hole on the pedal bracket.

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

●The disc brake oil cup and the disc brake main pump should be placed to prevent the upper air of the oil cup from entering the brake line.



Rear right foot pedal assembly



Improved front right foot pedal assembly

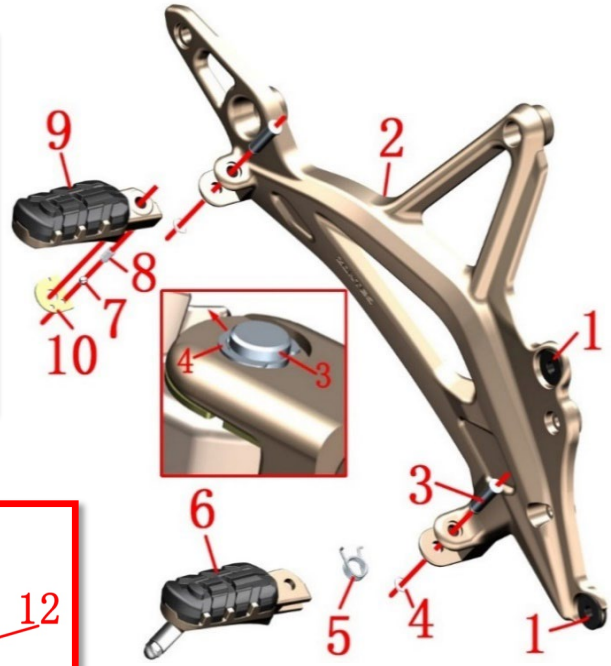


Fig. 4 FOOT PEDAL COMPONENT		Right footrest component-3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-002000	ZT250-S side cover round glue	2	
2		Right pedal stand	1	
3		Pedal pin	2	
4	1264100-006000	ZT250-S pedal circlip	2	
5	1264100-004000	ZT250-S front right pedal torsion spring	1	
6		Front right pedal assembly (improved)	1	
7	1274100-010000	ZT250-S rear pedal steel ball	1	
8	1264100-005000	ZT250-S pedal steel ball spring	1	
9		Rear right pedal assembly	1	
10	1270300-272000	KD250-F rear pedal fixed piece	1	
11	1244200-036000	ZT310-T pedal rubber sleeve	2	Pedal after sale parts
12	1274200-051000	ZT310-X pedal rubber sleeve positioning plate	2	
13		ZT310-T Front right pedal	1	
14		ZT310-T Rear right pedal	1	
15	1250205-038000	GB70.2M5×12 (stainless steel)	2	
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 pad	1	

CAUTION:

●Make sure the assembly is correct when replacing the consumables of the foot separately.

●Since 20th Mar 2020,add a GB93φ6 spring pad.

PROCEDURE:

●Front right pedal assembly

Use the tool to remove the circlip (4), remove the pedal pin (3), and then remove the front right pedal assembly (6) and the pedal torsion spring (5).

●Rear right pedal assembly

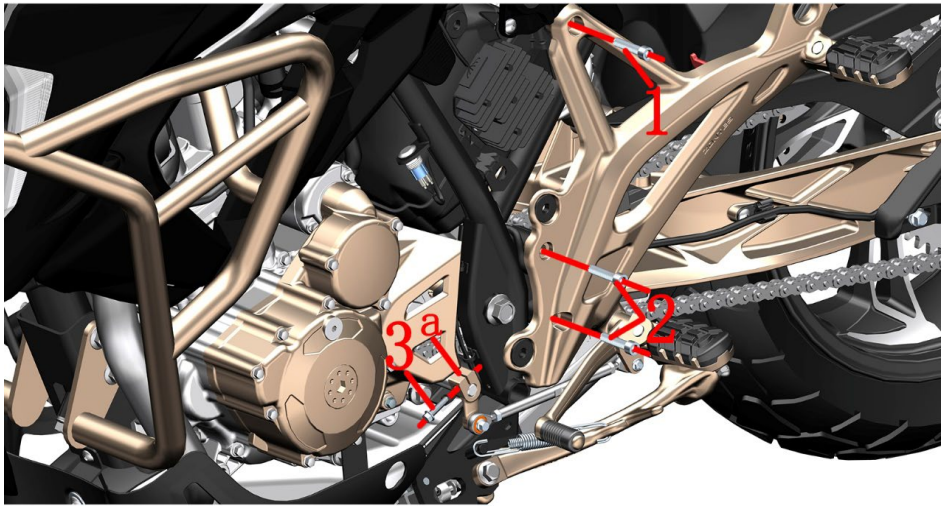
Use the tool to remove the circlip (4), remove the pedal pin (3), and then pull the rear right foot assembly (9) out, remove the positioning piece (10), steel ball (7), spring (8).

●Foot support

Remove the side cover round glue (1).

●Foot aftersales service parts

Grasp the pedal assembly and remove the bolt (15) and spring pad(18);Remove the rubber sleeve (11) and the fixing piece (12) and front right foot pedal(13) or rear right foot pedal(14). Remove the bolt(17), then take off the bushing(16). Only front pedal needs bolt(17) and the bushing (16). Foot pedal rubber (11), positioning plate (12), bolt (15) are in common use. Each part use 1 piece for after sales purpose.



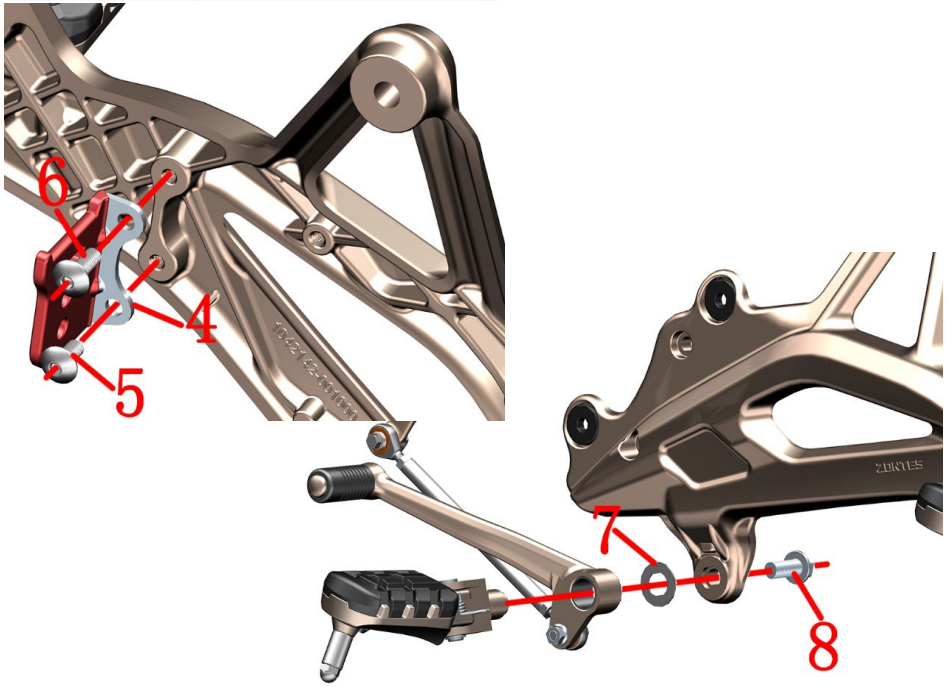


Fig. 5 FOOT PEDAL COMPONENT		Left footrest component-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-034093	GB70.1 Hexagon M8×30 (environmental color zinc)	1	
2	1250205-023000	GB70.1 Hexagon M8×35 (environmental color zinc)	2	
3	1251100-061093	M6×22 hex flange bolt full thread 8.8	1	
4	1274200-037000	ZT310-R disc brake lock bracket	1	
5	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	1	
6	1250105-137093	Non-standard bolt M6×16 (304 stainless steel)	1	
7		Foot support gasket	1	
8	1251100-123093	Non-standard bolt M8×25 (environmental color)	1	Old
	1250105-278093	GB5789 M10×1.25×25(10.9/ environmental color)		New

PROCEDURE:

●Left pedal component

Use a Phillips wrench to remove the bolt (3) and use a flat-blade screwdriver to insert the slot①. Pull the spline rocker arm slightly apart and pull it out from the engine shift shaft.

Remove the bolts (1) and bolts (2) with the hexagon socket tool and remove the left foot bracket assembly.

●Disc brake lock bracket

Flip to the back and remove the bolt (5) and (6) with the hexagonal tool; remove the disc brake bracket (4).

●Shift lever assembly

Remove the bolt (8); separate the left footrest and shifter assembly from the left footrest assembly and remove the seat washer (7).

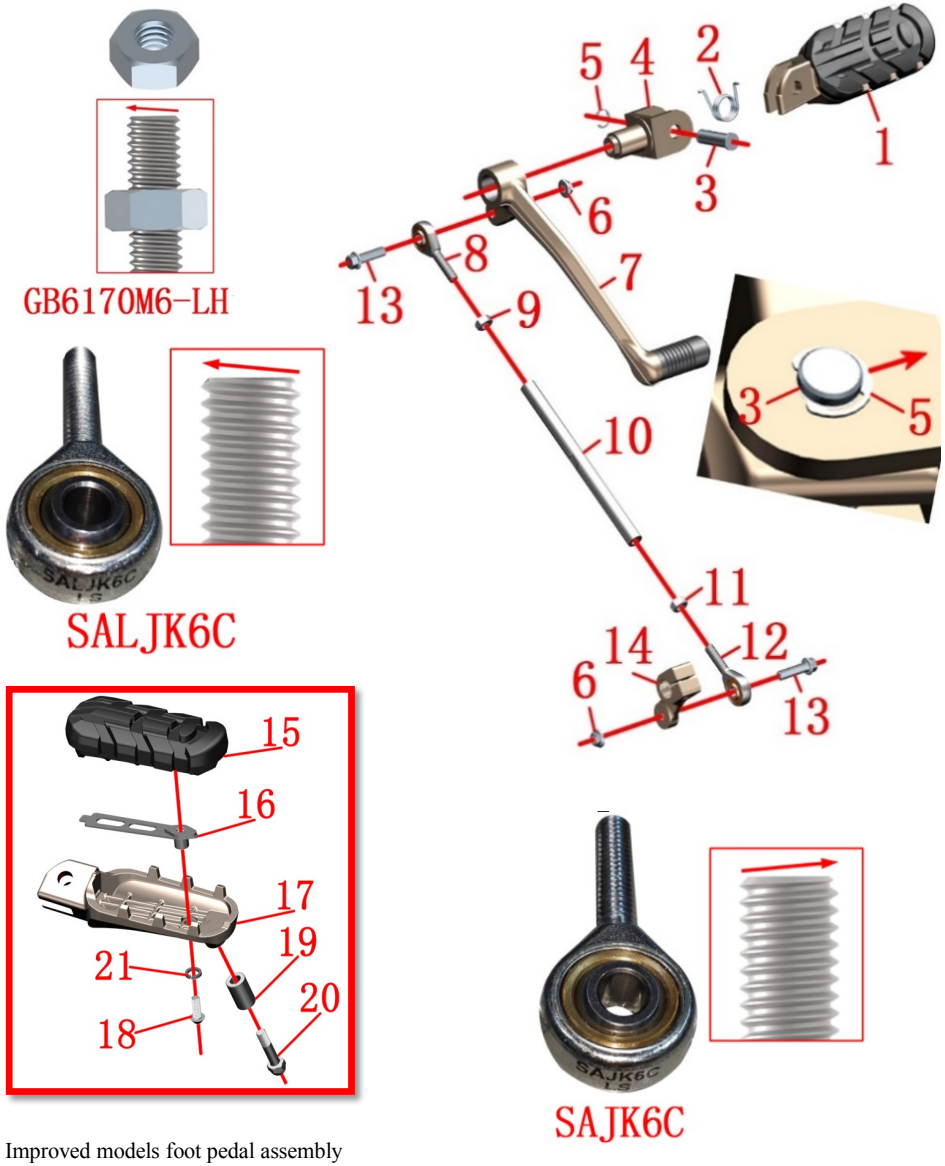
CAUTION:

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

●When reassembling, pay attention to the bearing spacers aligned with the support bosses to fit in place.

●Evenly apply grease on the cylindrical surface of the foot support to reduce the resistance of the shift lever.

●Only suitable for TOP DOG disc brakes RE008 and RE0081, other models are not adapted.



Improved models foot pedal assembly

Fig. 6 FOOT PEDAL COMPONENT		Left footrest component-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		Front left pedal component	1	
2	1264100-003000	ZT250-S front left foot torsion spring	1	
3	1274100-012000	ZT250-S Foot pin	1	
4		Foot support	1	
5	1264100-006000	ZT250-S pedal circlip	1	
6	1250303-010093	GB6177.1 M6 (Environmental Color)	2	
7		ZT310-T shift lever pedal rocker	1	
8	1274100-043000	Rod end joint bearing SALJK6C	1	
9	1250301-018093	GB6170 M6-LH (environmental color zinc)	1	
10	1274200-003000	ZT310-R shift lever adjustment screwφ10×130	1	
11	1250301-020093	GB6170 M6 (environmental color)	1	
12	1274100-042000	Rod end joint bearing SAJK6C	1	
13	1251100-061093	M6×22 hex flange bolt full thread 8.8	2	
14		ZT250-S shift lever spline rocker arm	1	
15	1244200-036000	ZT310-T pedal rubber sleeve	1	Foot sales parts
16	1274200-051000	ZT310-X foot rubber sleeve fixing piece	1	
17		ZT310-T Front left pedal	1	
18	1250205-038000	GB70.2 M5×12 (stainless steel)	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 pad	1	

PROCEDURE:

●Left pedal component

Use the tool to remove the circlip (5), remove the pedal pin (3), and then remove the front left pedal assembly (1) and the pedal torsion spring (2) from the support (4).

●Shift lever component

Remove the nuts (6) and bolts (13) at both ends with the sleeve, and remove the shift lever rocker arm (7) and the spline rocker arm (14). Use the open-end wrench to loosen the nuts (9) and (11) separately, remove the adjusting rod (10), and then separate the joint bearings (8) and (12).

●Foot aftersales service parts

Grasp the front left pedal assembly and remove the bolt (18) and spring pad(21) .Remove the rubber sleeve (15) and the fixing piece (16). Remove the bolt(20), then take off the bushing(19).

●Since 20th Mar 2020,add a GB93φ6 spring

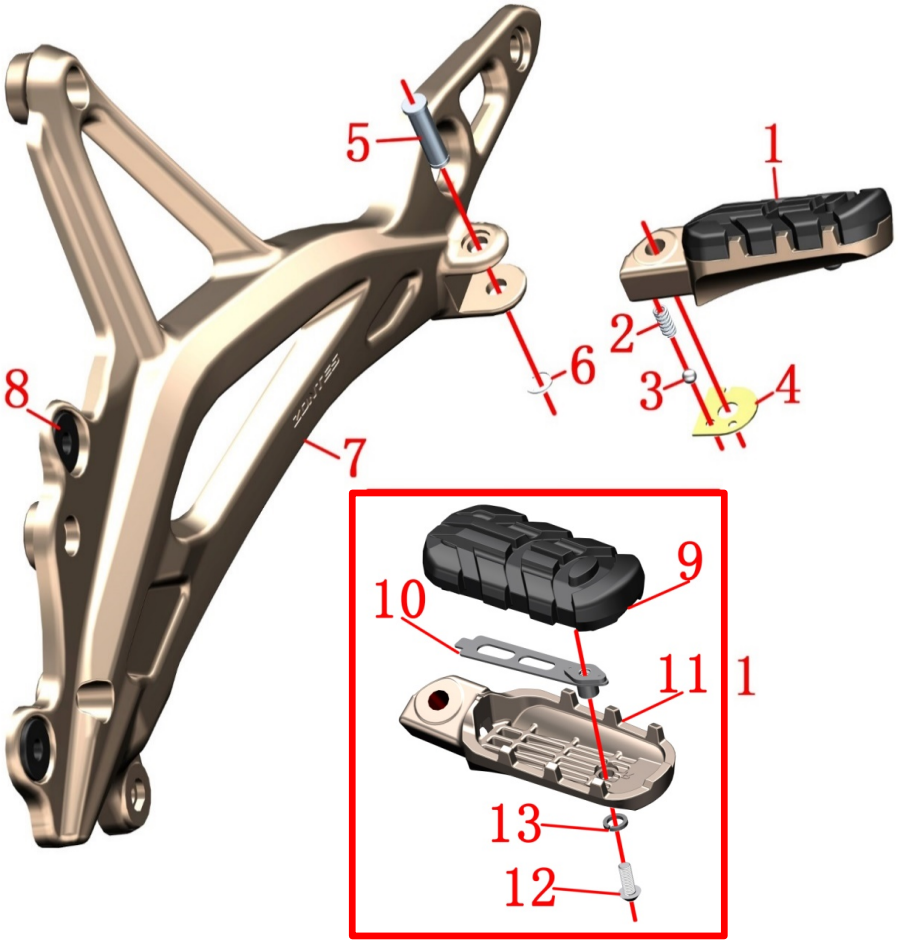


Fig. 7 FOOT PEDAL COMPONENT		Left footrest componet-3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		Rear left pedal assembly	1	
2	1264100-005000	ZT250-S pedal steel ball spring	1	
3	1274100-010000	ZT250-S rear pedal steel ball	1	
4	1270300-272000	KD250-F rear pedal positioning piece	1	
5		Foot pin	1	
6	1264100-006000	ZT250-S pedal circlip	1	
7		Left foot stand	1	
8	1244100-002000	ZT250-S side cover round glue	2	
9	1244200-036000	ZT310-T pedal rubber sleeve	1	Pedal after sales
10	1274200-051000	ZT310-X pedal rubber sleeve fixed pin	1	
11		ZT310-T Rear left pedal	1	
12	1250205-038000	GB70.2 M5×12 (stainless steel)	1	
13	1250501-010000	GB93φ6 spring pad	1	

PROCEDURE:

●Rear left pedal

Use the tool to remove the circlip (6), remove the pedal pin (5), and then pull the rear left pedal assembly (1) out, remove the positioning piece (4), steel ball (3), spring (2).

●Pedal support

Remove the side cover round rubber (8).

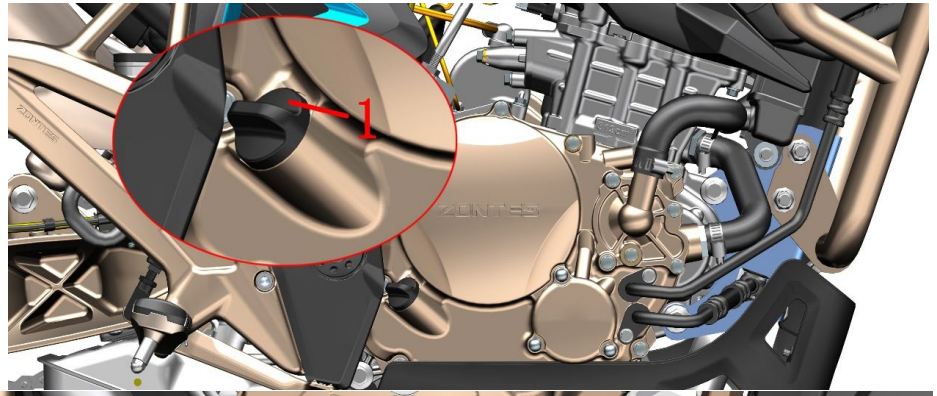
●Pedal sales parts

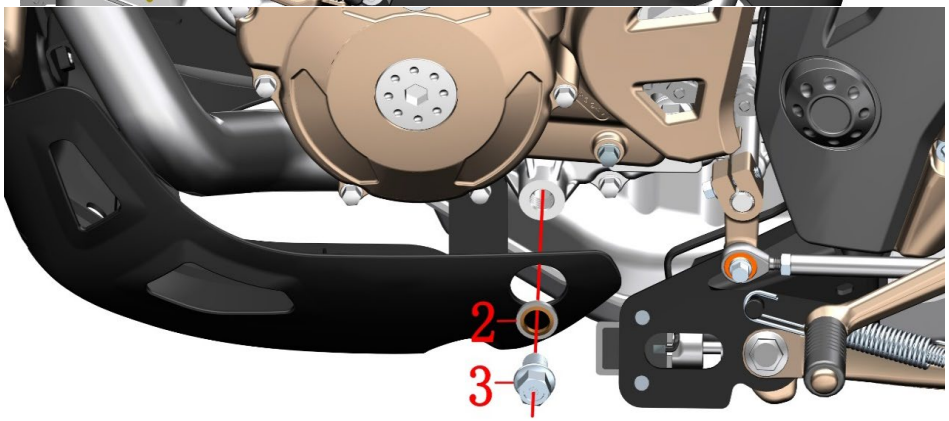
After grasping the left foot pedal assembly, remove the bolt (12) with the hexagonal tool. Remove the rubber sleeve (9) and the fixed piece (10) and the rear left pedal(11).

CAUTION:

●Make sure the assembly is correct when replacing the quick-wear parts of the pedal separately.

●Since 20th Mar 2020,add a GB93φ6 spring pad.





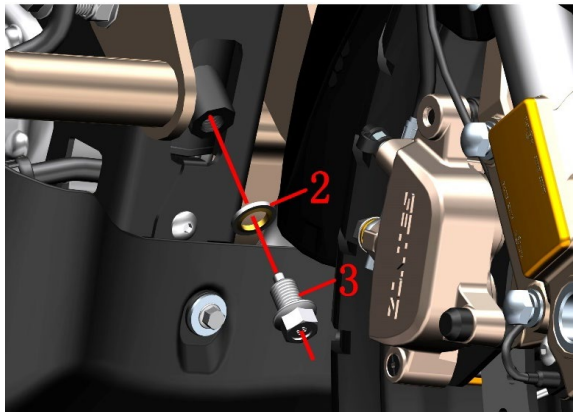


Fig.1 COOLING SYSTEM COMPONENT		Change engine oil	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1050854-002000	ZT180MN Engine oil level gauge	1	
2	1244100-033000	Sealing gasket 12×φ20×2	2	
3	1251100-066093	M12×1.5×15 Oil draining bolt	2	24±4N.m

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 (as left bottom picture shown) and draining bolt on the engine (as left middle picture shown).

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 minutes. Check if the engine oil leaks.

Run the engine at idling speed for 5 minutes then shut down the engine for 3 minutes. 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.

●It is recommended to buy genuine "ZONTES" special oil on the official website.

●Since the crankshaft connecting rod of the engine is bushing structure, at least 1 liter of oil should be added to start the engine before replacing the oil.Otherwise, the bearing bush may be scrapped or the crankshaft may get stuck.

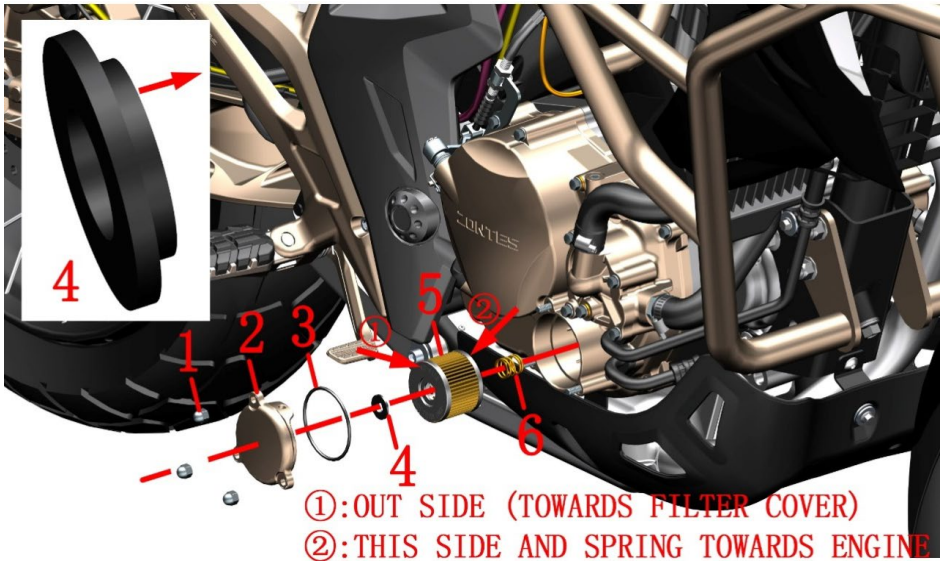


Fig.2 COOLING SYSTEM COMPONENT		Replace the oil filter	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-096000	Non-standard cover type 9 degree nut M6×13 (environmental color zinc)	3	【1】
2	4050954-002000	ZT180MN Engine oil refined filter cover（Titanium）	1	
3	1051454-004000	55×2.5 O-ring	1	after-sale
4	1051454-005000	ZT180MN Engine oil refined filter seal ring	1	
5	4134200-003000	ZT180 refined filter seal component	1	【2】
6	1050853-009000	Φ16.4×17×1.6 Spring for filter	1	

PROCEDURE:

●Change engine oil filter

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

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

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

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

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

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

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

CAUTION:

●Ensure every component is well assembled.

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

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

●【1】Due to status change,if this nut needs to be replaced,3 pieces shall be replaced at the same time.

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

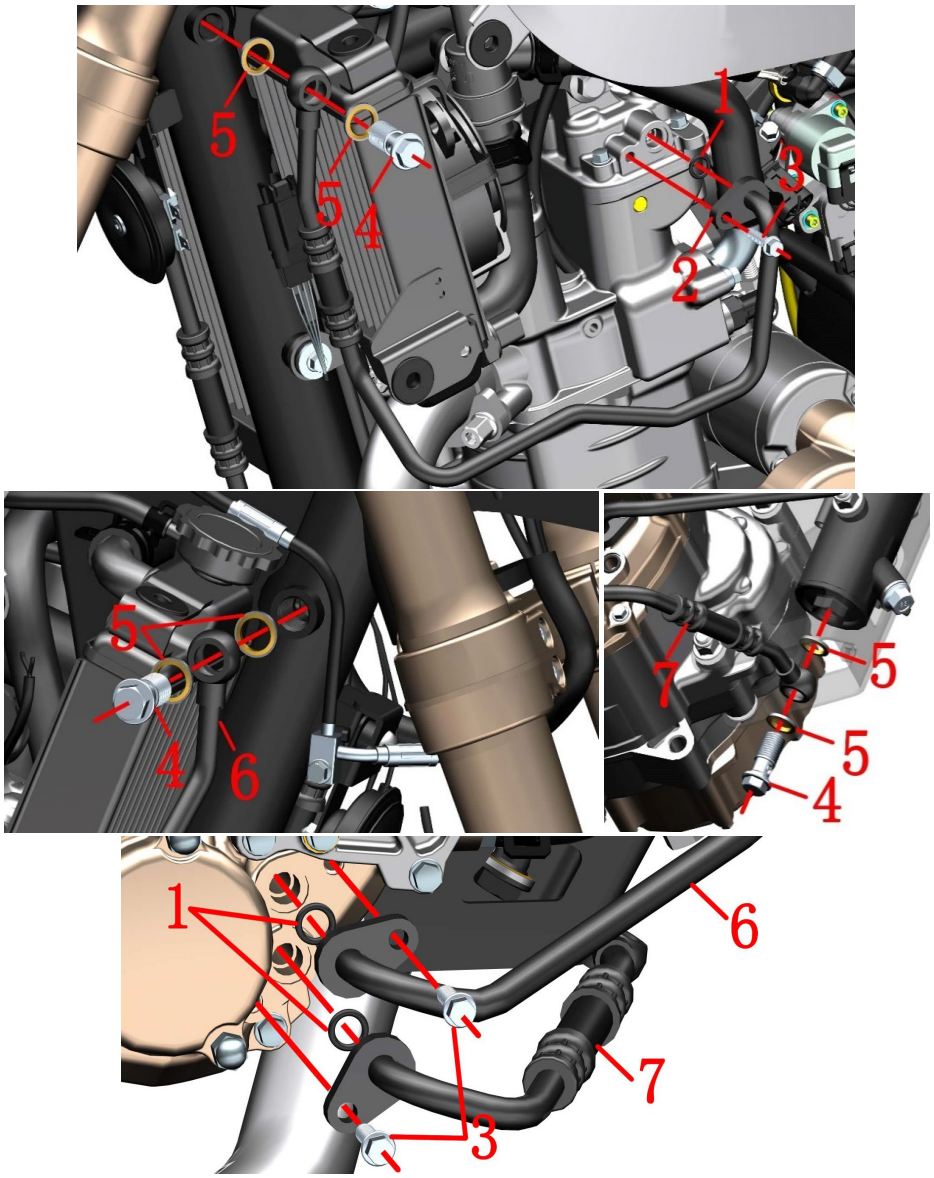


Fig.3 COOLING SYSTEM COMPONENT		Radiator tubing component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1051454-014000	9.8×2.5 O-ring	3	
2	1244200-016000	ZT310－R Chassis connected oil tube	1	
3	1251100-061093	M6×22 Hex flange bolt	3	
4	1251100-089094	Oil passing bolt M14×1.50×32	3	30±2N.m
5	1244100-034000	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). (as left picture shown)

●Engine oil outlet tube

Disassemble oil passing bolt (4), seal gasket (5) with socket sleeve. As middle picture shown.

●Engine oil intake tube

Disassemble oil passing bolt (4), seal gasket (5) with socket sleeve. (as left picture shown)

Disassemble bolt (3) with socket sleeve. Take off engine oil outlet tube (6), engine oil intake tube (7); Take off O-ring (1). (as picture shown)

CAUTION:

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

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

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

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

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

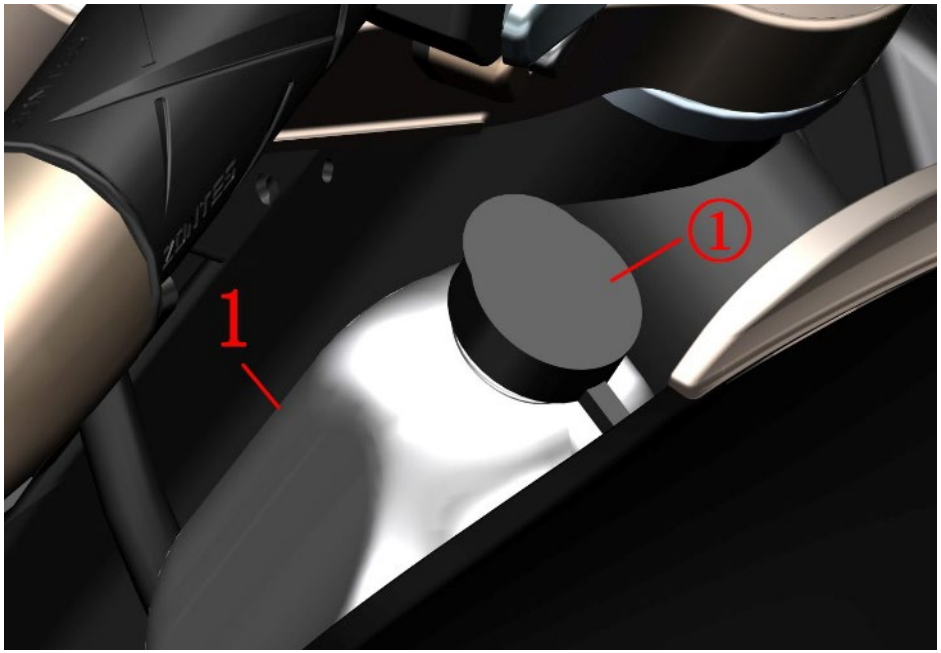


Fig.4 COOLING SYSTEM COMPONENT		Add coolant	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-006000	ZT310－R sub water tank	1	

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 bracket; 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.

●Replace the 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.

●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.

●Total volume of cooling liquid is 1440ml.

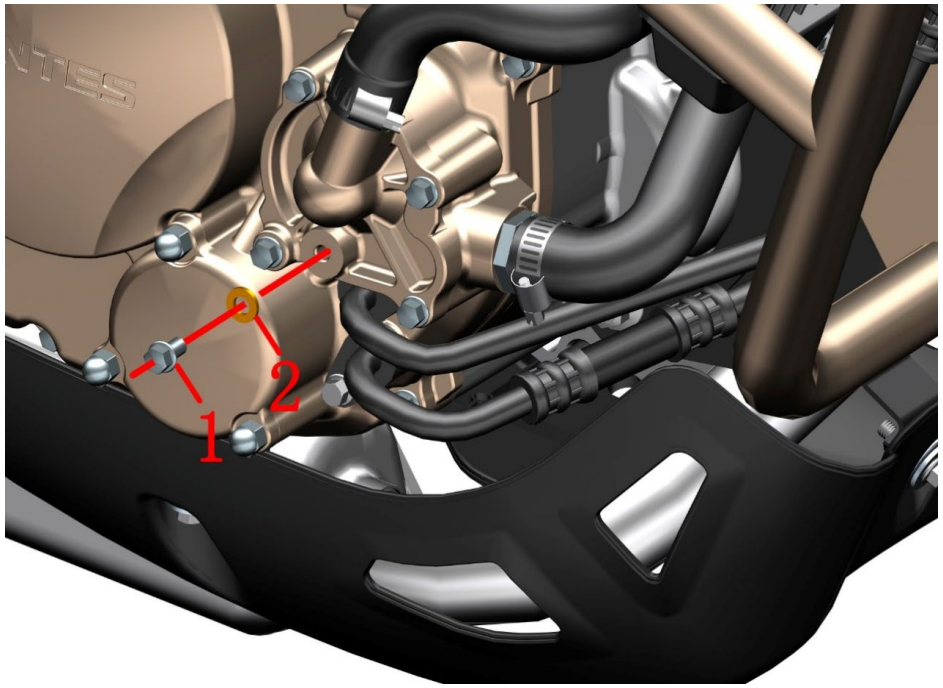


Fig.5 COOLING SYSTEM COMPONENT		Draining cooling liquid	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251112-001093	M6×16 Hex flange bolt（color zinc)	1	
2	1051654-002000	Seal gasketφ6×13×1.8	1	

PROCEDURE:

●Drain the cooling liquid

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

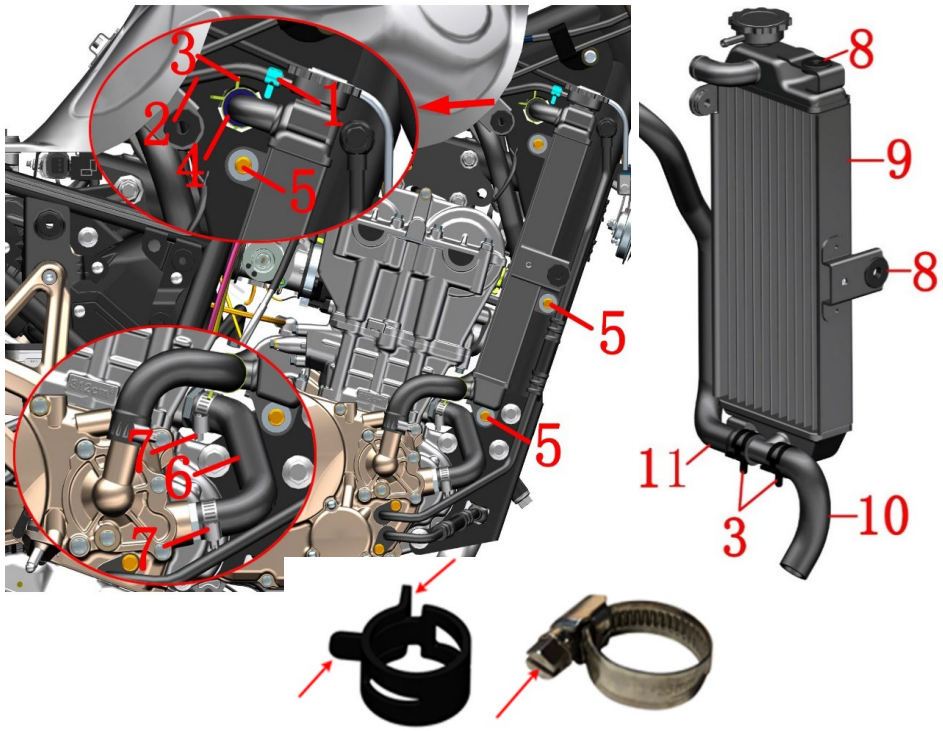
Wipe out all of the cooling liquid on surface every component with a clean cloth.

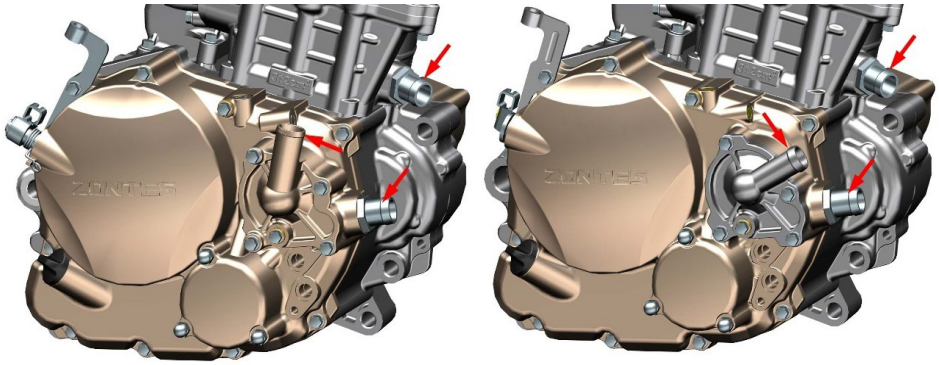
CAUTION:

●Motorcycle should be well supported.

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

●Cooling liquid is toxic. Avoid strictly eye or skin contact. More details in "Attention" of previous page.





sliding clutch lihgt clutch

Fig.6 COOLING SYSTEM COMPONENT		Right water tank component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1274200-079000	ZT310 Hoop of water tube（φ9）	1	
2	1244200-013000	ZT310－R Connecting tube of sub water tank	1	
3	1274200-090000	ZT310 Hoop of water tube（φ26）	3	
4	1244200-011000	ZT310－R Connecting tube of L & R water tank	1	
5	1251100-061093	M6×22 Hex flange bolt(level 8 ,color zinc)	3	
6	1244200-012000	ZT310－R Engine cooling liquid passing tube	1	
7	1274200-041000	ZT310 water tank tube clamp（φ26）	3	
8	1244100-002000	ZT250－S Side cover round gum cushion	2	
9	1274200-005000	ZT310－R , right water tank	1	
10	1244200-098000	ZT310-R engine inlet pipe (sliding clutch)	1	sliding clutch
	1244200-003000	ZT310-R engine inlet pipe		lihgt clutch
11	1244200-021000	ZT310 small circulation water tube	1	

PROCEDURE:

●Sub water tank connecting tube

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

●Water tube

Remove the clamps (7) at both ends of the pipe (6) from the anti-knock boss and remove them from the engine;Remove the clamp (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.

●water tank connecting tube

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

●Right water tank component

Hold the right water tank component with one hand, disassemble 3 pieces bolts (5) with socket sleeve by other hand. Separate the connecting tube (4) with right want tank assembly.

The right water tank component will be pulled out after the hoop (3) move to the tank below the T junction, after the small cycle water pipe (11) and type T junction separation.

Remove the engine inlet pipe (10) by the same method.

Seperate the side cover glue (8) with right water tank (9).

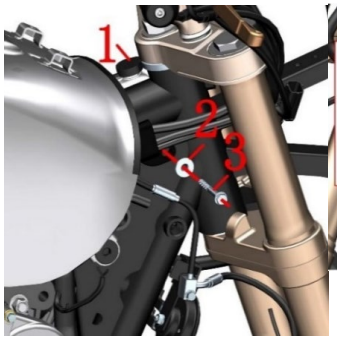
CAUTION:

●Motorcycle should be well supported.

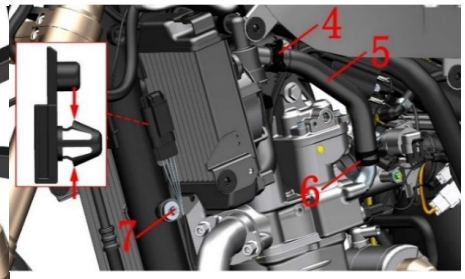
●Manipulation should start after the engine is completely cooled down.

●Cooling liquid is toxic. Avoid strictly eye or skin contact. More details in "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.



A



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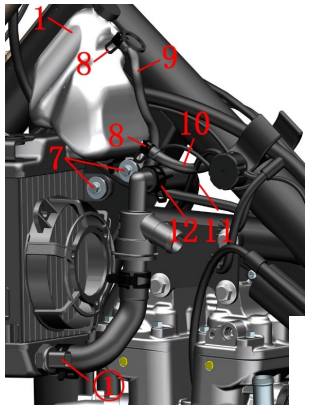
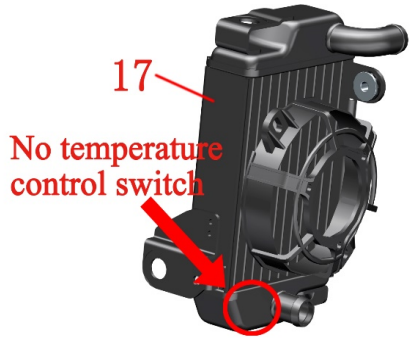


C

D



CAUTION:

●Cooling liquid is toxic. Avoid strictly eye or skin contact. More details in "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.7 COOLING SYSTEM COMPONENT		Left water tank component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-006000	ZT310－R Sub water tank	1	
2	1274100-007000	ZT250－S Flanging bushing(φ6.4×φ9×6＋φ20×2)	1	
3	1250105-236093	GB5789M6×55（color zinc）	1	
4	1274200-091000	ZT310 Hoop of water tube（φ27）	2	
5	1244200-001000	ZT310－R Engine water intake tube	1	
6	1274200-090000	ZT310 Hoop of water tube（φ26）	3	
7	1251100-061093	M6×22 Hexagon flange face threaded bolt	3	
8	1274200-088000	ZT310 Hoop of water tube（φ10.5）	2	
9	1244200-025000	ZT310－R Sub tank leaking pipe	1	
10	1244200-013000	ZT310－R Connecting tube of sub water tank	1	
11	1244200-021000	ZT310 small circulation water tube	1	
12	1274200-089000	ZT310 Hoop of water tube（φ22）	1	
13	1244200-011000	ZT310－R Connecting tube of L & R water tank	1	
14	1274200-019000	ZT310－R Thermostat	1	
15	1244200-010000	ZT310－R left water tank intake tube	1	
16	1244100-002000	ZT250－S Side cover round rubber	2	
17	1274200-004000	ZT310－R left water tank	1	
	1274200-277000	ZT310-R left water tank (no temperature control switch/single connector)		

PROCEDURE:

●Sub water tank component

Hold well the sub water tank component. Disassemble bolt (3) on the right side. Take off bush (2). As Picture A, move away the clamp (8). Disassemble water leaking tube (9) and connecting tube (10). Then disassemble the bottom bolt (7) of sub water tank. Take off sub water tank (1). (As Picture C)

●Left water tank component

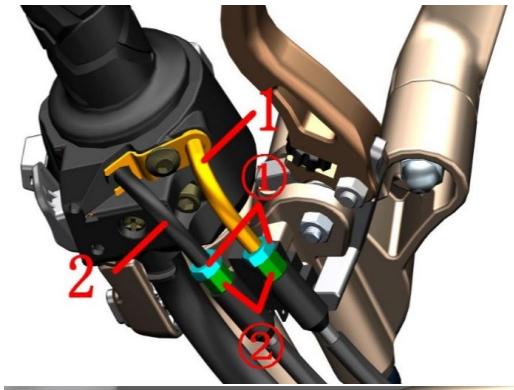
Use a plier to grip as the arrow shows on the cable clip and pull it out of left water tank holder. Move hoop (4) and (6) to interface of tube and pull out engine water outlet tube (5). Take off hoop (4) and (6).(As Picture B)

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 water tube (11). Take off hoop (12).

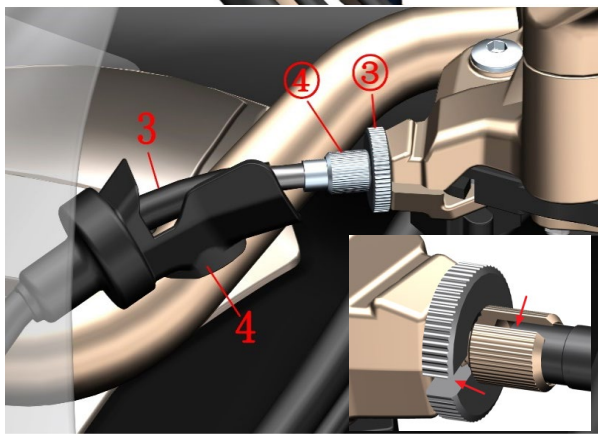
Unplug the fan cable connector;Remove the water tank component after removing the bolts (7) of sub water tank .

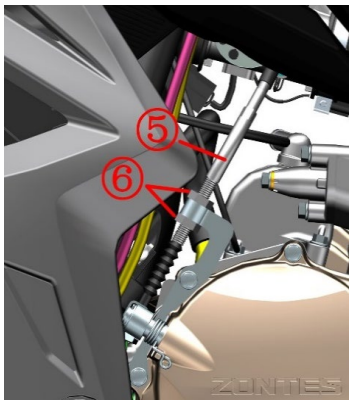
Move the hoop (6) from top of water tank to conner joint of water tank. Then pull out the connecting tube (13).(As Picture D) Separate side cover gum cushion (16) and left cooling liquid tank (17).

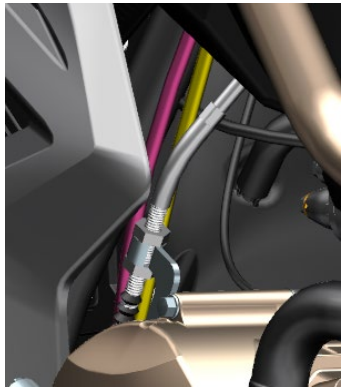
Move away the hoop (6) and (4) under the water tank. Then take off the themostat (14) and left water tank intake tube (15). Take off hoop (6) and (4).(As Picture D) .Seperate the side cover glue (16) with right water tank (17).



ZT310-X1 clutch line







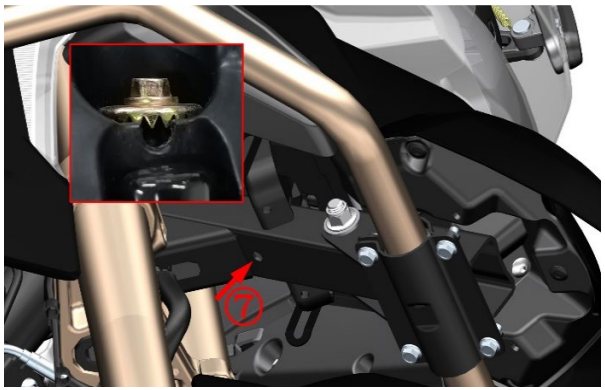


Fig. 1 FRONT FORK COMPONENT		Throttle/clutch cable clearance adjustment, light height adjustment	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		Throttle refueling line	1	
2		Throttle return line	1	
3	1154200-012000	ZT310-X1 clutch line	1	
4	1244200-046000	ZT310-V clutch line sheath	1	

PROCEDURE:

●Throttle Cable

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 adjusting screw ②to adjust the clearance to 2 to 4 mm. Lock the nut ① after adjustment.

●Clutch line

Micro adjustment：

Retract the protective rubber sleeve (4) of the clutch rocker arm to the bend of the clutch wire (3), loosen the nut ③ with pliers, rotate the adjusting screw ④, and finally lock the nut ③ to reset the dust jacket (4). After adjustment, note that the nut ③, the adjusting screw ④ and the groove of the rocker seat should be staggered to prevent the cable from coming out.

Big adjustment:

If the fine adjustment does not meet the requirements, use an open-end wrench to loosen the nut ⑥ near the bottom, after griping the adjustment screw ⑤, rotate the nut ⑥ at the bottom of the top, and finally lock the nut ⑤ at the bottom. Adjust the screw ⑤ elbows inward.

●Light beam height adjustment

The driver sits on the vehicle and fixes the vehicle. The other person uses a PH2 Phillips screwdriver (diameter 6mm) to insert into the hole ⑦ at the bottom of the front end of the frame. Align the adjustment bolt's tooth shape, turn clockwise to lower, counterclockwise to increase the light beam height.

CAUTION:

●The throttle cable adjustment should be noted as follows:

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

The engine idle speed does not increase when turning in the direction of rotation.

Check that the engine idle speed should be carried out in the case of a heat engine and should be between 1500 and 1700 rpm/minute

●Clutch adjustment should pay attention to the following:

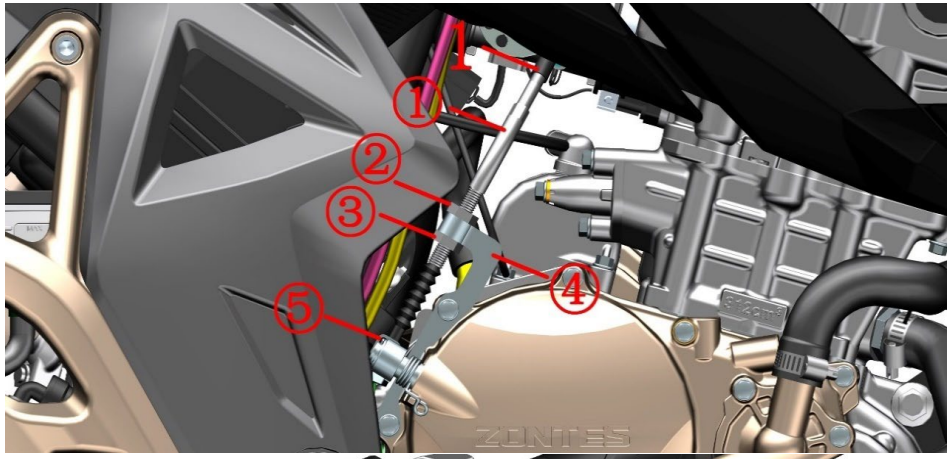
Excessive free travel can cause wear and failure of the clutch and shifting mechanism.

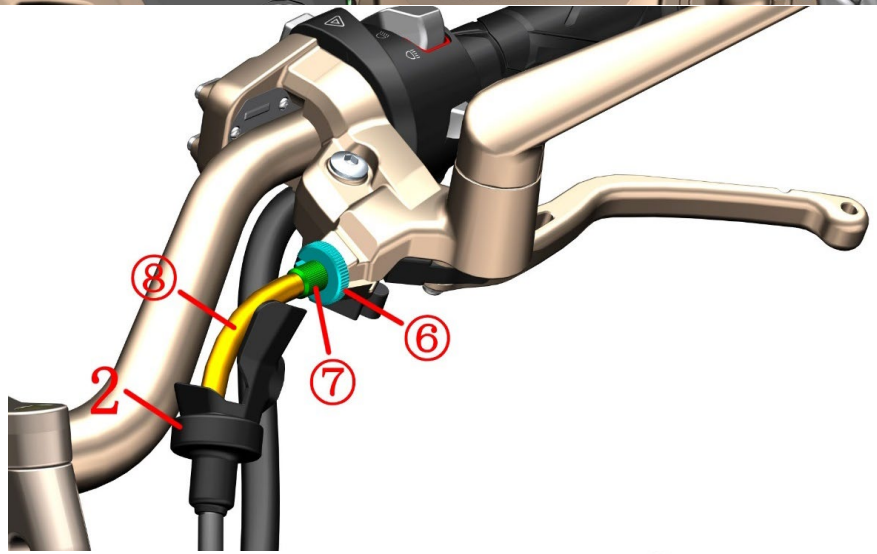
After adjustment, be sure to shift the slot on the nut, adjusting screw and rocker arm to a certain position to prevent the cable from coming out of the slot.

●Note that the lighting height adjustment should be as follows:

Light levels that are too low or too high can affect safe driving. The lighting level should be adjusted reasonably based on the presence or absence of occupant and driver weight changes.

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





ZT310-X1 clutch line

Fig. 2 FRONT FORK COMPONENT		Replacement clutch cable	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1154200-012000	ZT310-X1 clutch line	1	
2	1244200-046000	ZT310-V clutch line protecting bush	1	

PROCEDURE:

●take down the clutch cable

Use an open-end wrench to loosen the nuts ②, ③; fix the adjusting screw ①, screw 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 core connector from the bracket ⑤, and place the nut ③ toward the black sheath with one hand, and remove the adjusting screw ① from the bracket ④ upwards with one hand.

First, retract the protective rubber sleeve (2) to the bend, loosen the nut ⑥ with pliers; rotate the slot of the nut ⑥ and the adjusting screw ⑦ to the same position as the slot on the rocker arm, and pull the cable from the rocker seat. Take it down.

Remove the clutch line.

Remove the protective rubber sleeve (2) from the clutch wire (1).

●Install the clutch line

Put the protective rubber sleeve (2) into the clutch line bend.

After the clutch wire joint is put into the rocker arm, the nut ⑥ and the slot of the adjusting screw ⑦ are screwed to the slot on the rocker arm.

The clutch line is assembled in place in the original routing.

Screw nut ② up to the top of the thread of the adjustment screw and screw nut ③ to the bottom to completely separate the thread.

The nut ③ is placed close to the black sheath in one hand, and the adjusting screw ① is inserted into the bracket ④ in one hand.

The clutch core connector is inserted into the hole of the bracket ⑤.

Firstly, the nut ② is initially positioned, and the nut is adjusted according to the method of adjusting the free stroke in the clutch cable adjustment, and then the nut ③ is locked.

Finally, the protective rubber sleeve (2) is reset.

CAUTION:

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

●Replace the clutch wire, first remove the seat cushion, fuel tank and liner, side cover, etc.

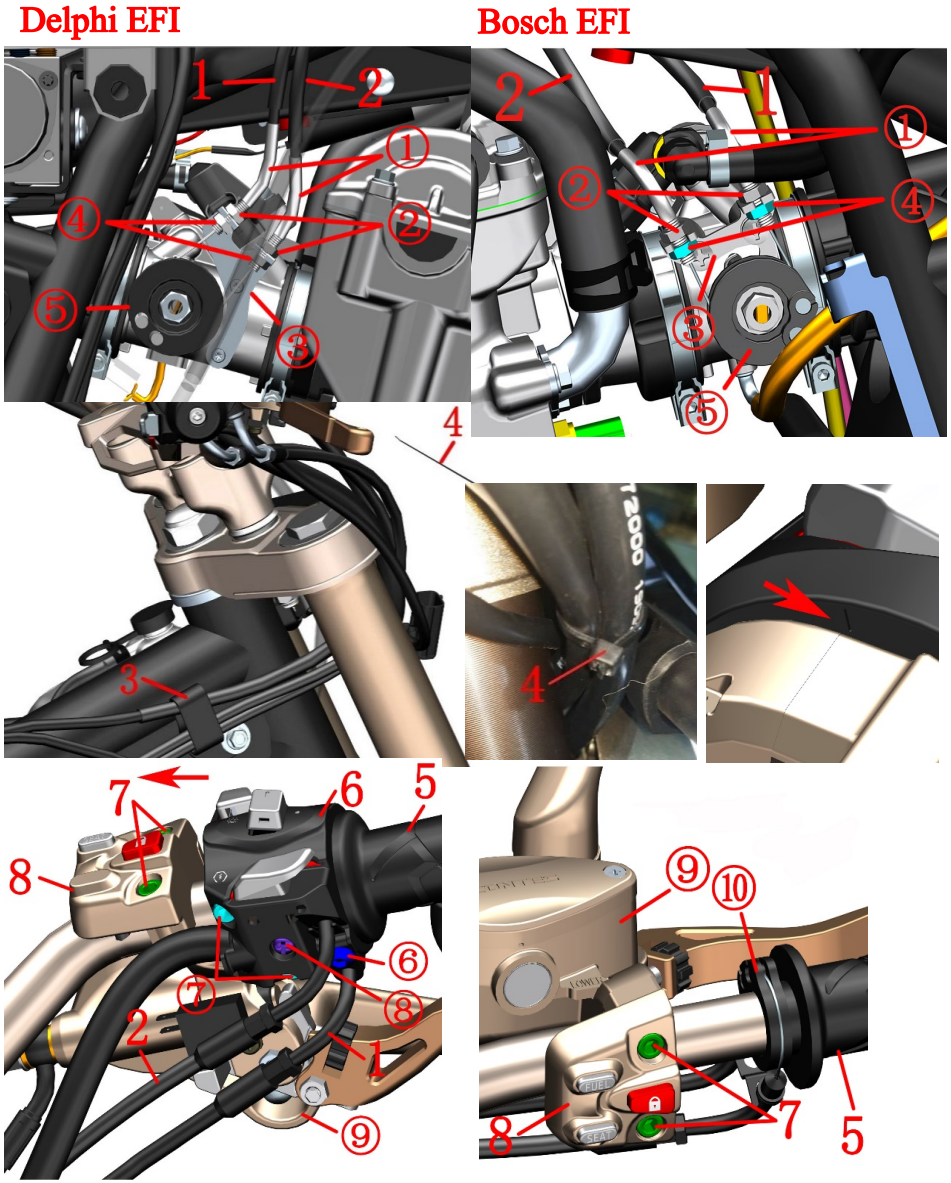


Fig. 3 FRONT FORK COMPONENT		Replace the throttle line	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1		Throttle refueling line	1	
2		Throttle return line	1	
3	1224200-016000	ZT310-R hub clamp	1	
4	1224100-051000	0 grade flame retardant cable tie (black 2.5×100)	1	
5	1244100-042000	ZT250-R right hand rubber sleeve	1	
6	1184200-140000	ZT310-X1 right hand switch	1	
7	1250205-031091	GB70.1M6×30 (stainless steel)	2	
8	1184200-145000	Second Generation Right Handlebar Switch (TFT)	1	

PROCEDURE:

●Dismantle throttle line

Use an open-end wrench to turn the nut②of the throttle line(1)or the return line(2)up to the end, and the nut④ to the bottom of the adjustment tube①; rotate the turntable on the throttle clockwise to rotate the cylindrical joint of the filler line from the turntable Remove the upper part; then move the adjustment tube up over the bracket③on the throttle and pull it outward to separate the core from the bracket. Similarly, remove the oil return line.

Open the card of the clamp (3) slightly outward, remove the throttle line from the slot, and cut the strap (4).

Loosen the bolt (7) with the hexagon socket tool; move the sub-switch (8) and the right disc brake rocker assembly ⑨ and lock the bolt (7). The disc brake main pump ⑨ should always be kept at a high position to prevent air from entering the oil passage.

Hold the right hand switch (6) with your hand, remove the bolts ⑦ and ⑧ and then remove the bolt ⑥. Separate the upper and lower parts of the handlebar switch.

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

●Install the throttle line

First thread the throttle line into the cable hole in the lower part of the switch. Install the cylindrical joint of the throttle line into the core turntable ⑩ of the right handle rubber sleeve (5). Snap the oil return line into the limit card slot on the refueling line and lock the bolt ⑦ with a hexagonal tool. The torque is 8~10N.m. After the switch mounting hole position is good, the bolt 8 is slightly twisted a few times, and then the positioning hole at the lower part of the switch (6) is aligned with the direction to lock the bolt ⑥. Finally, tighten the bolts ⑧, tie the straps (4), and cut off the excess. Reset the sub-switch and rocker assembly, paying attention to the symbols on the alignment switch.

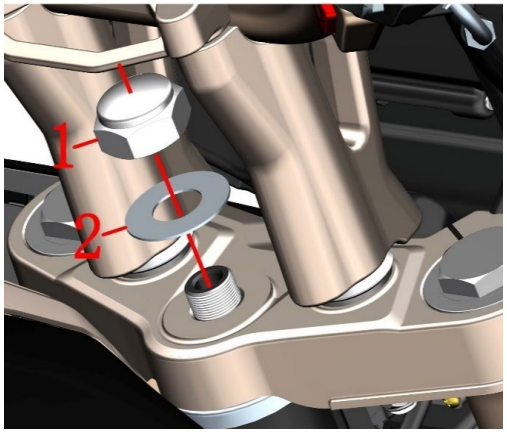
Install the throttle cable into the hub clamp (3) slot.

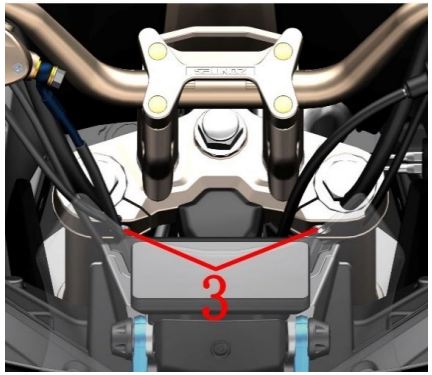
Use the hand to turn the nut ② of the throttle line (1) or the return line (2) up to the end, and the nut ④ to the bottom of the adjustment tube ①.

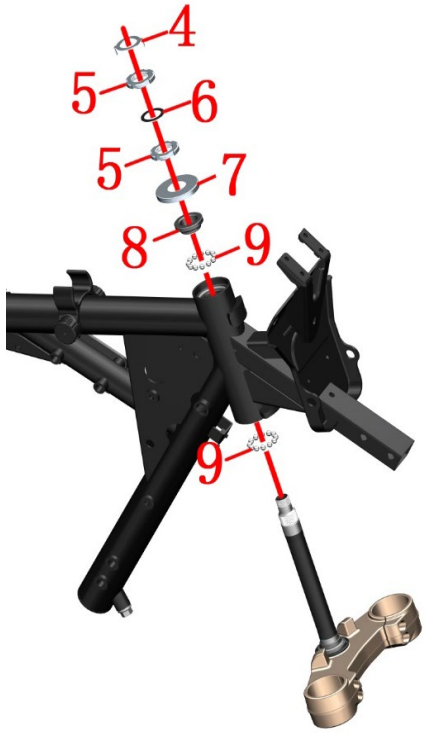
Put the oil return line into the bracket ③, and then put the joint into the turntable ⑤.

Put the oil line into the bracket ③, and then turn the turntable ⑤ to a certain angle and then insert the joint.

Adjust the clearance of the throttle cable by referring to the method of adjusting the clearance; after the adjustment, the left and right rotation directions should not change the idle speed and the reset is flexible. Lock nuts ② and ④.







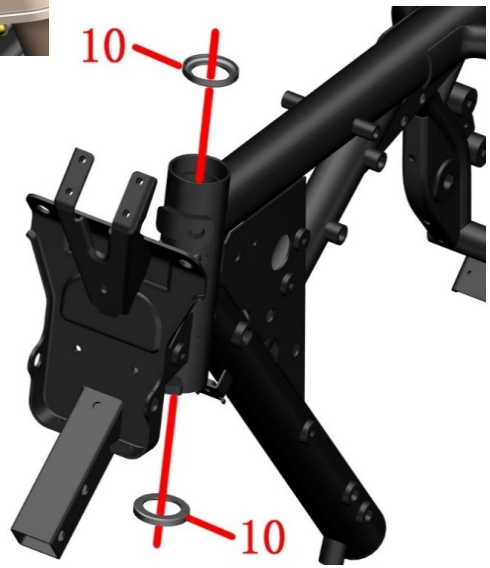


Fig. 4 FRONT FORK COMPONENT		Steering adjustment	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251300-045000	ZT250-S upper plate decorative nut (chrome plated)	1	100N·m
2	1251500-050000	ZT250-S upper plate gasket φ18.5×φ39×1	1	
3	1250205-023000	GB70.1 Hexagonal M8×35 (environmental color zinc)	2	22～24N.m
4	1134100-007000	ZT250-S adjusting nut lock washer	1	
5	1251300-046093	ZT250-S direction column adjustment nut M24X1	2	
6	1244100-015000	ZT250-S adjustment nut pad	1	
7	1224100-005000	Dust cover on ZT250-S direction column	1	
8	1130900-024000	ZT250-S shaft ring	1	
9	1130900-022000	ZT250-S Siamese Steel Ball	2	
10	1130900-026000	ZT250-S seat	2	

PROCEDURE:

●When the front fork has a slight sway or the steering wheel swings when braking

First check whether the front tire pressure is the recommended air pressure at normal temperature: standard 250 kPa. If it is lower than the recommended air pressure, first inflate the front tire pressure to 350 kPa, then deflate to 250 kPa. Whether the test is released. If the front wheel is otherwise lifted and turned to check the tire tread, if it is eccentric or deformed, the front tire needs to be replaced. If no, continue to operate.

●Check steering device

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

Adjust the adjustment nut:

Remove the trim nut (1) with a wrench and remove the washer (2); remove the bolt (3) with a hexagon socket tool. Wrap the direction and upper panel assembly with a clean cloth and place it to prevent scratches. Remove the lock washer (4); use the special four-jaw sleeve or hook wrench to remove the upper adjustment nut (5) and remove the rubber pad (6).

If the steering resistance is too large, turn the bottom adjustment nut (5) counterclockwise. If the brake is slightly swayed or the steering swings, it will rotate clockwise. The torque is about 14N.m, so as to lift the front wheel to rotate left and right without any stuck. It is appropriate.

When reassembling, the uppermost adjustment nut only needs to be screwed to the bottom nut groove. It should not be too tight to avoid excessive deformation of the rubber pad (6); the torque of the decorative nut (1) is 100N.m.

●Steering bearing

If the above operation still cannot eliminate the excessive steering resistance or stuck, proceed as follows:

Remove the adjusting nut (5), remove the upper dust cover (7), the shaft ring (8), the connecting steel ball (9), remove the direction column & front shock absorber & front wheel assembly, check the shaft ring and the connected steel ball for abnormal wear or rust. . Also check the seat (10) in the riser in front of the frame for abnormal wear or rust. The newly replaced one-piece steel ball should be evenly coated with grease, 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.

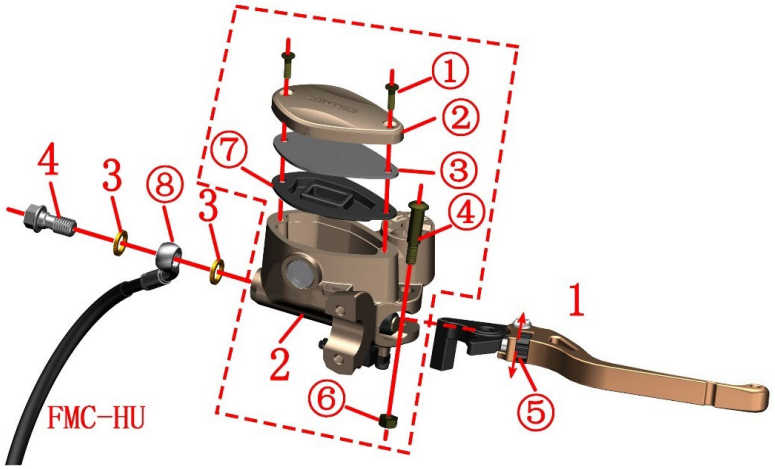


Fig.5 FRONT FORK COMPONENT		Add brake fluid, rocker adjustment	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1134100-032000	ZT250-R right hand rocker arm (machine plus)	1	
2	1100300-044000	ZT125T front disc brake main pump assembly	1	
3	1251513-013000	Brake brake tubing copper washer φ15×φ10.2×1.5	2	
4	1251100-112000	Disc brake tubing bolt M10×1-22	1	32N.m

PROCEDURE:

●Front disc brake main pump

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

●Rocker

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

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

●Add brake fluid

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

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

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

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

Be sure to clean the foreign body before reassembling it.

CAUTION:

●The vehicle's horizontal support should be fixed before checking.

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

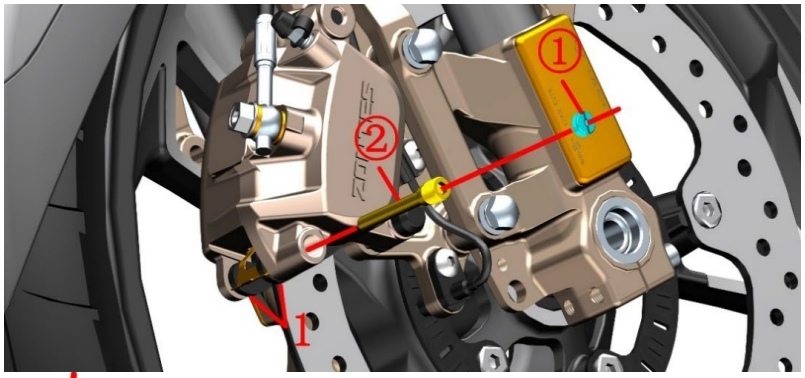
●If the liquid level is below “LOWER”, first check the brake pad wear and whether the brake system leaks.

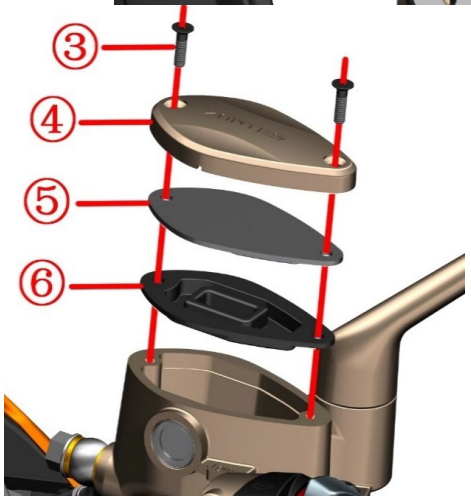
●If you accidentally swallow the brake fluid, you should contact the poisoning control center or the hospital immediately; if you accidentally get into the eyes, take the water and rinse immediately.

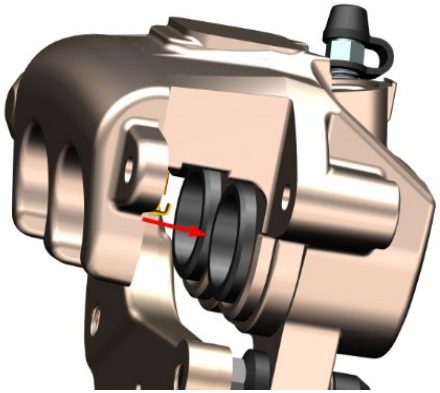
●Keep brake fluid away from children and pets.

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

●It is strictly forbidden to mix water, dust, impurities and silicic or petroleum-based liquids, otherwise it will cause serious damage to the brake system.







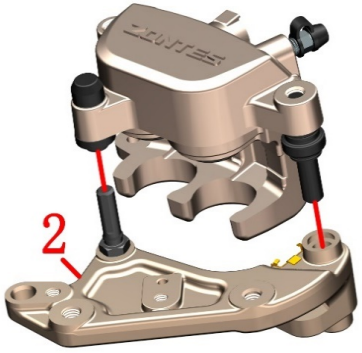


Fig. 6 FRONT FORK COMPONENT		Replace the front brake pads	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1100100-091000	ZT250-S front disc brake pads (H10)	1	After-sales
2	1100100-570000	ZT310-T front brake caliper mounting plate	1	

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.

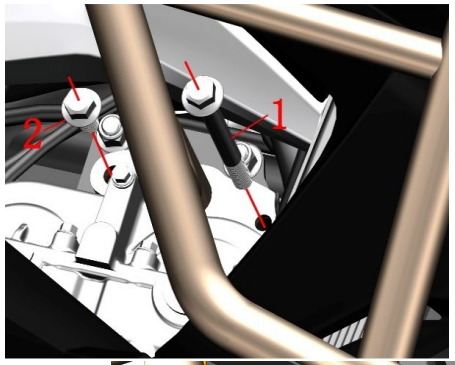
●The wear of the brake pads and brake discs should be checked regularly. Check whether the brake fluid in the main disc observation window of the front disc brakes is at 3/4.

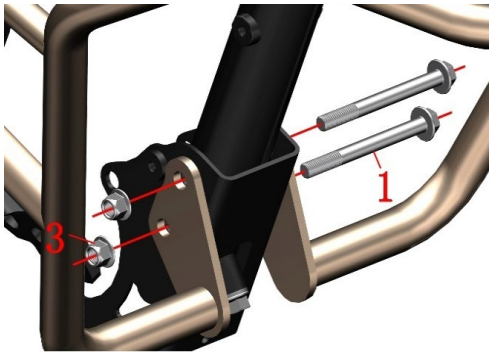
●When replacing the brake pads, it is strictly forbidden to remove the oil pipe bolts and the vent bolts to prevent the air from entering the pipeline and causing the brake to fail.

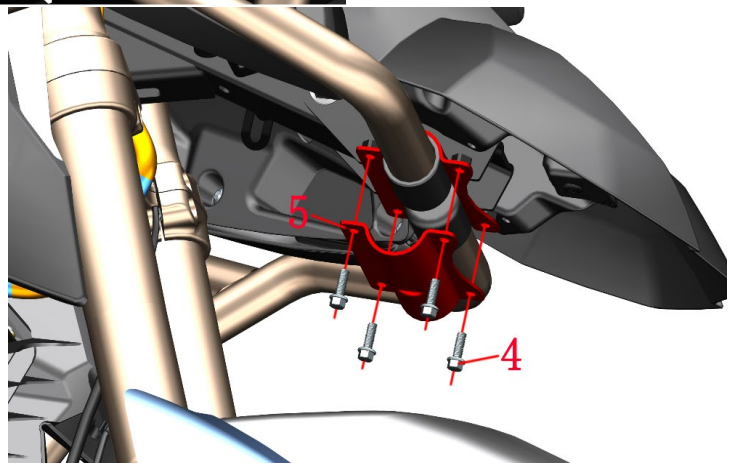
●After disassembling the front disc brake main oil cup cover, the front end should not be shaken to prevent the brake fluid from overflowing.

●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.







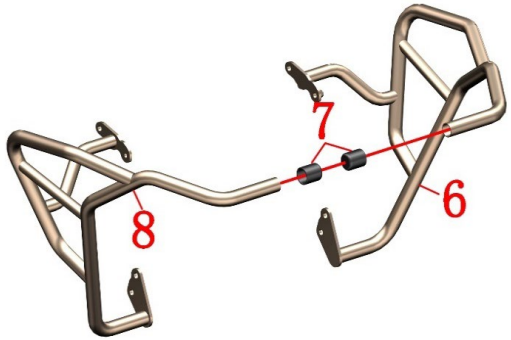


Fig. 7 FRONT FORK COMPONENT		Guard bar component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-137000	Non-standard bolt M10×1.5×100 (Dacro)	3	65±5N.m
2	1251100-082093	Non-standard bolt M10×1.5×20 (Dacro)	2	65±5N.m
3	1251300-057093	Non-standard nut M10×1.5 (Dacro)	2	65±5N.m
4	1251112-001093	M6×16 Hex flang bolt thread(color zinc)	4	
5	4024200-027000	ZT310-T frame protection bar pressure plate	1	
6	1144200-034000	ZT310-T left guard	1	
7	1144200-030000	ZT310-T retaining bar rubber sleeve	2	
8	1144200-033000	ZT310-T right guard bar	1	

PROCEDURE:

●Guard bar component

Remove the bolts (1) and (2) on the right side of the vehicle.

One person uses a sleeve to fix the head of the left bolt (1) of the vehicle, and one person removes the nut (3) with a sleeve; do not remove the bolt (1) first.

One person grasps the left guard bar, and the other person grasps the right guard bar with one hand and then removes the four bolts (4) under the upper fender from the other hand, and removes the guard bar (5). Remove the right guard bar (8), the left guard bar (6), and the bolt (3).

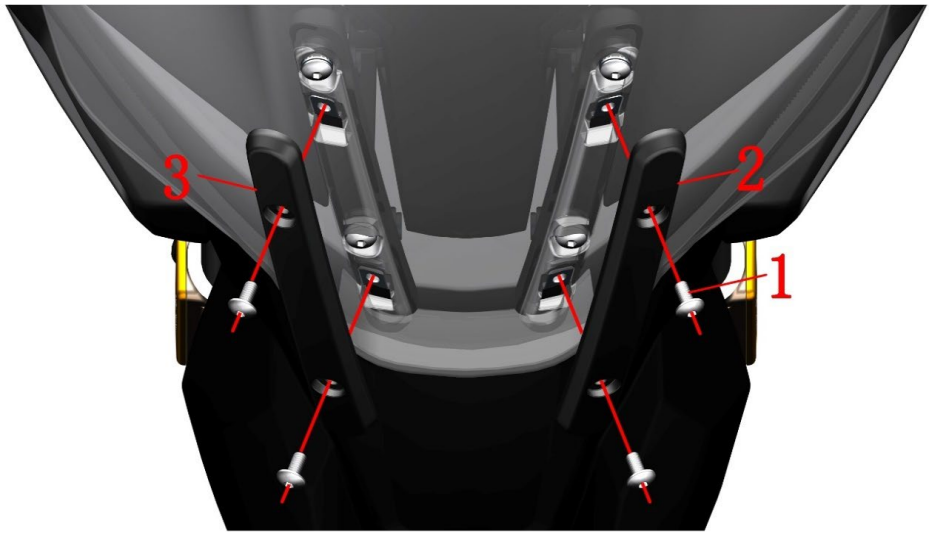
Remove the protective rubber sleeve (7) from the left and right guard bars.

CAUTION:

●The vehicle support should be fixed before operation.

●The torque of the bolts (1), (2) and nuts (3) must be 65±5N.m when reassembling; make sure that the guard bars are not pressed to any cables.

●When reassembling, the left and right guard bars should be assembled first, and then the guard bar pressure plate should be assembled.



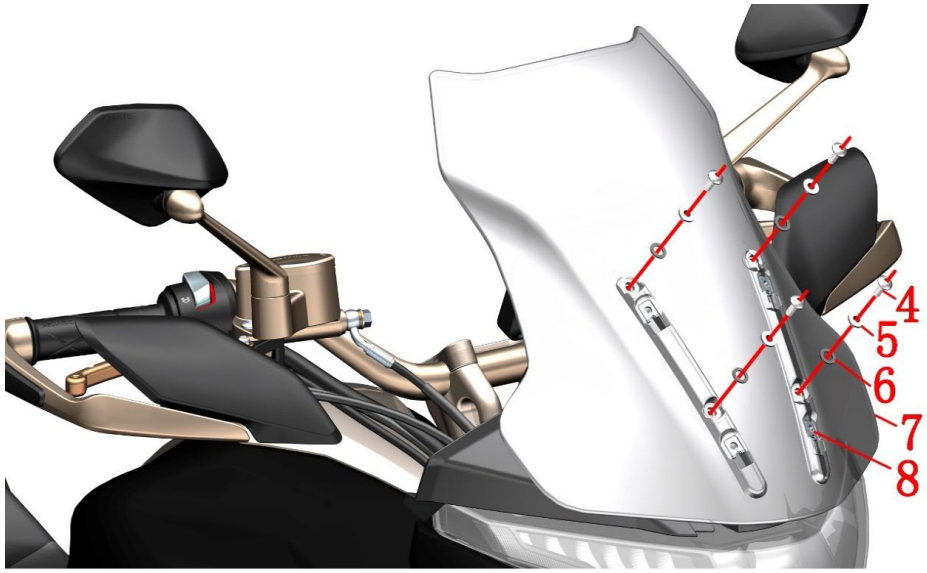


Fig. 8 FRONT FORK COMPONENT		Windshield component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
2	1224200-072000	ZT310-T windshield left decorative cover	1	
3	1224200-073000	ZT310-T windshield right decorative cover	1	
4	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	4	
5	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	4	
6	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	4	
7	1224200-071000	ZT310-T windshield	1	
8	1251300-063093	Splint M6×11×15 (environmental color)	4	

PROCEDURE:

●Windshield decorative cover

Remove the bolts (1) and remove the left decorative cover (2) and the right decorative cover (3).

●Windshield

Hold the windshield (7) in one hand, remove the bolts (4) in one hand, remove the flange bushing (5), and the rubber pad (6); remove the windshield assembly. Remove the plate nut (8).

CAUTION:

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

●The windshield is easy to be scratched and must be protected.

●When reassembling, pay attention to the torque of the bolts should not be too large to avoid damage to the windshield.

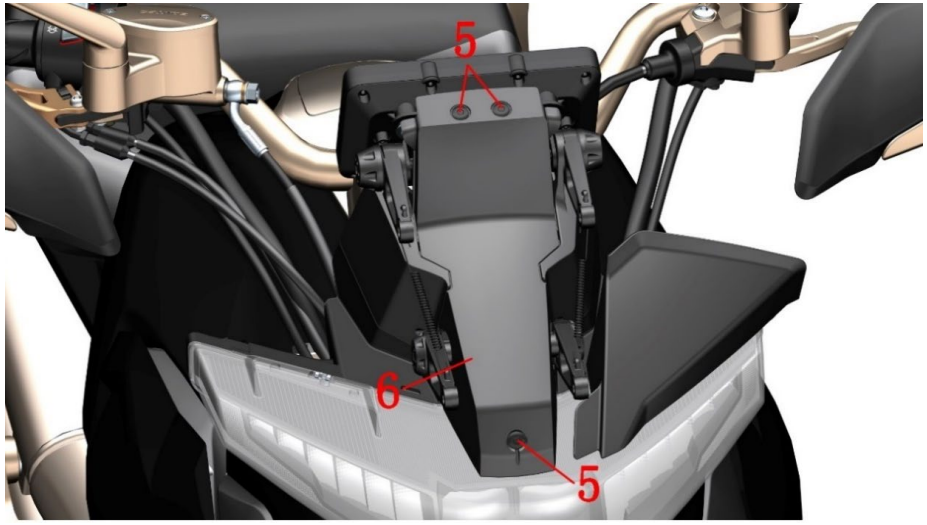


Fig. 9 FRONT FORK COMPONENT		Windshield bracket component (Electronic Instrument)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1264100-006000	ZT250-S pedal circlip	4	
2	1274200-030000	ZT310-X windshield lower pressing block rotating shaft	4	
3	1274200-112000	ZT310-T windshield left bracket	1	
4	1274200-113000	ZT310-T windshield right bracket	1	
5	1224100-010000	ZT250-S expansion nail	3	
6	1224200-076000	ZT310-T hood middle decorative cover	1	

PROCEDURE:

●Windshield bracket

First remove the circlip (1) on the left side of the vehicle, remove the rotating shaft (2), and remove the left bracket (3). Remove the right bracket (4) in the same way.

●The middle cover of the hood

Use a small Phillips screwdriver to push down the center of the expansion screw (5) and remove the expansion pin. Remove the middle cover (6) of the hood.

CAUTION:

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

●Small circlips need to be properly kept.

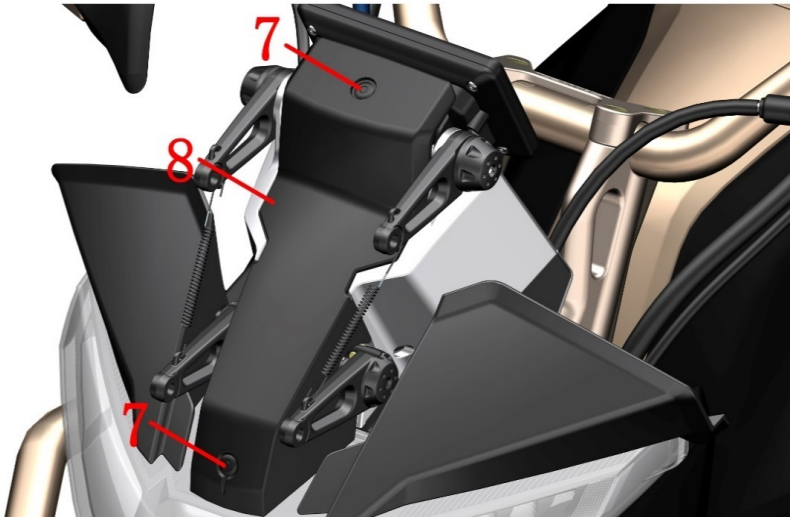


Fig. 10 FRONT FORK COMPONENT		Windshield bracket component(TFT Instrument)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1264100-006000	ZT250-S pedal circlip	4	
2	1244200-089000	ZT310-T windshield right buffer rubber	1	
3	1274200-030000	ZT310-X windshield lower pressing block rotating shaft	4	
4	1244200-048000	ZT310-T windshield left buffer rubber	1	
5	1274200-112000	ZT310-T windshield left bracket	1	
	4024200-076051	ZT310-T windshield left bracket(dark gray matte)		
6	1274200-113000	ZT310-T windshield right bracket	1	
	4024200-077051	ZT310-T windshield right bracket(dark gray matte)		
7	1224100-010000	ZT250-S expansion nail	2	
8	1224200-142000	ZT310-T1 hood middle decorative cover	1	TFT Instrument

PROCEDURE:

●windshield buffer rubber

First remove the left side of the windshield cushion rubber (4) and the right side buffer rubber (2).

●Windshield bracket

First remove the circlip (1) on the left side of the vehicle, remove the rotating shaft (3), and remove the left bracket (5). Remove the right bracket (6) in the same way.

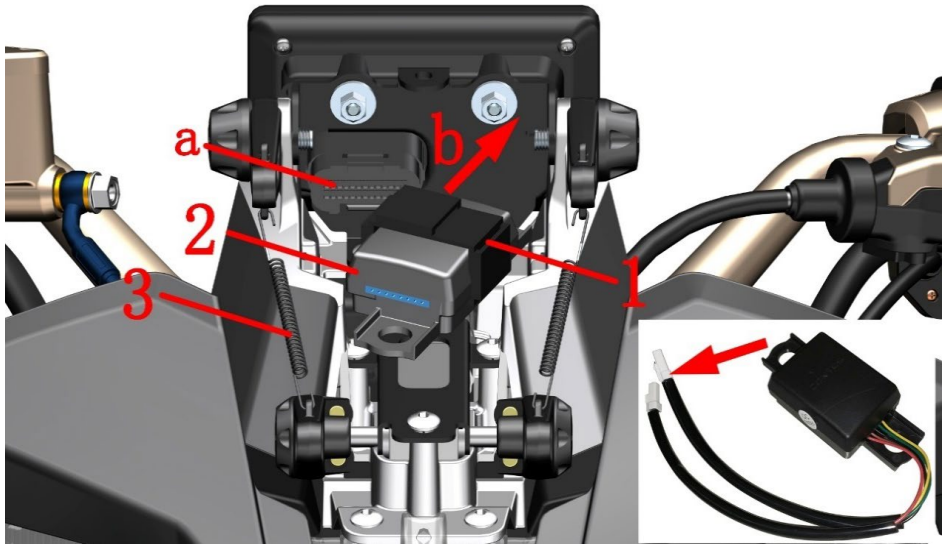
●The middle cover of the hood

Use a small Phillips screwdriver to push down the center of the expansion screw (7) and remove the expansion pin. Remove the middle cover (8) of the hood.

CAUTION:

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

●Small circlips need to be properly kept.



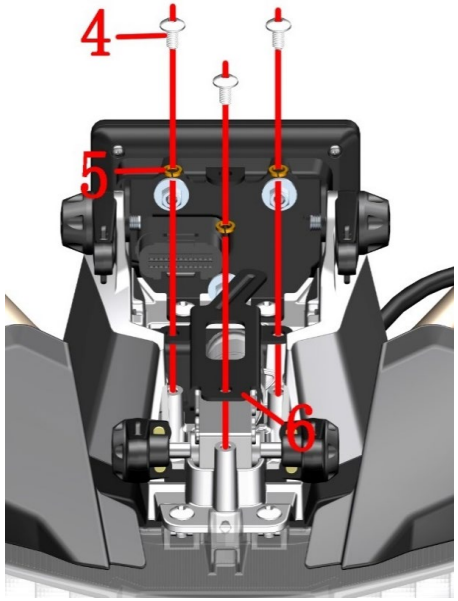


Fig. 11 FRONT FORK COMPONENT		Windshield motor component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244200-073000	ZT310-T windshield controller rubber sleeve	1	
2	1184200-073000	ZT310-T windshield motor controller	1	Old
	1186200-016000	ZT310T-M windshield motor controller(limited time)		New
3	1260100-218000	ZT310-T rocker extension spring	2	
4	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	3	
5	1250501-010000	GB93φ6 spring pad	3	
6	1274200-137000	ZT310-T motor pressure plate	1	
7	1244200-074000	ZT310-T windshield motor sheath	1	
8	1184200-074000	ZT310-T windshield motor	1	
9	1244200-075000	ZT310-T windshield front rocker buffer rubber	4	
10	1250201-046000	GB818 cross recessed pan head screw M4×16	4	
11	1274200-144000	ZT310-T hood right lower rocker	1	
	4024200-080051	ZT310-T hood right lower rocker(dark gray matte)		
12	1274200-118000	ZT310-T lower rocker clamp	2	
	4024200-081051	ZT310-T lower rocker clamp(dark gray matte)		
13	1274200-143000	ZT310-T hood lower left rocker	1	
	4024200-079051	ZT310-T hood lower left rocker(dark gray matte)		

PROCEDURE:

●Windshield motor controller component

First turn the black protective rubber sleeve of the instrument cable connector at a downward to expose the connector, and press the limit buckle down and unplug the connector. Locate and unplug the controller and the windshield motor.

Remove the windshield motor controller component in the direction indicated by arrow b; remove the rubber sleeve (1) from the motor controller (2).

Remove the tension spring (3) with pliers.

●Wind block motor pressure plate

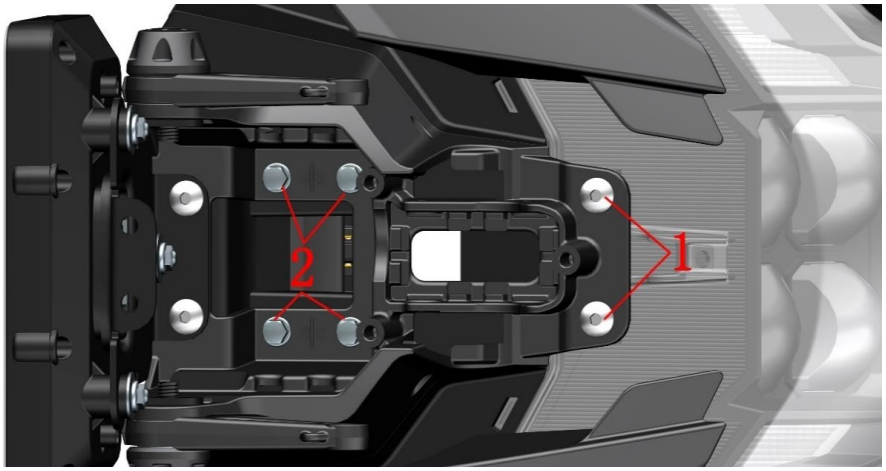
Remove the three bolts (4), remove the three spring washers (5), and remove the motor pressure plate (6). Finally remove the windshield motor component.

●Wind gear motor assembly

Remove the windshield motor sheath (7) and rocker cushion rubber (9). Remove the bolt (10) with a Phillips screwdriver and separate the rocker clamp (12), the lower left rocker (13), the windshield motor (8) and the lower right rocker (11).

CAUTION:

●When pulling out the plug, it is strictly forbidden to pull the cable directly. When assembling, the cable should not be bent or entangled excessively, and the parts should be prevented from directly pressing the cable.



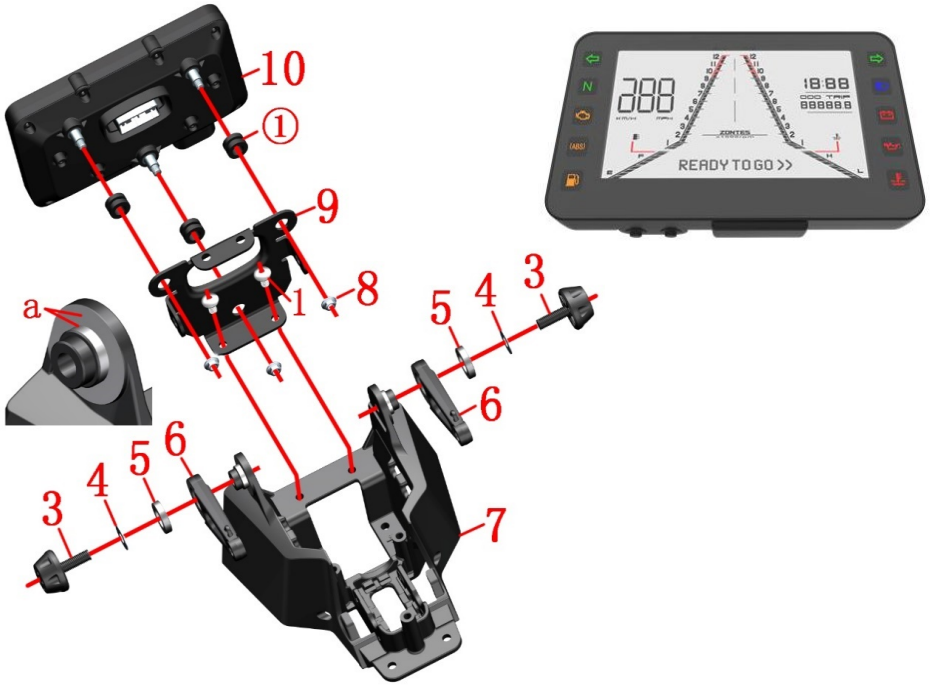


Fig. 12 FRONT FORK COMPONENT		Head cover aluminum bracket, instrument component(Electronic Instrument)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
2	1251112-001093	M6×16 hex flange bolt (environmental color zinc)	4	
3	1224200-093000	ZT310-T upper rocker decorative block	2	
4	1274200-136000	ZT310-T hood upper rocker gasket	2	
5	1250601-093000	6802 deep groove ball bearing	2	
6	1274200-114000	ZT310-T windshield rocker arm	2	
7	1274200-115000	ZT310-T hood aluminum bracket	1	
8	1250303-010093	GB6177.1M6 (environmental color)	3	
9	1274200-063000	ZT310-T instrument bracket	1	
10	1164200-001000	ZT310-X electronic instrument	1	

PROCEDURE:

●Head cover aluminum bracket, instrument component

Remove the 2 bolts (1) and 4 bolts (2) and remove the hood aluminum bracket and instrument component. Be careful not to pull the meter cable and the windshield controller cable.

●Windshield rocker arm component

Remove the upper rocker trim (3) with the hex tool and remove the washer (4). Remove the windshield rocker arm component from the hood aluminum bracket (7). Separate the windshield rocker arm (6) from the bearing (5).

●Instrumentation components

Remove two bolts (1) and remove the meter and bracket component from the hood aluminum bracket (7).

Remove three nuts (8) and remove the meter (10) from the meter bracket (9). Remove the buffer rubber 1 that comes with the meter from the meter holder.

CAUTION:

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

●Both end faces a of the aluminum cover of the head cover should be greased to reduce the resistance.

●If only the instrument and the bracket assembly are removed, the threaded part of the upper rocker trim block should be unscrewed until the end face of the thread is flush with the inner end surface of the aluminum cover of the hood.

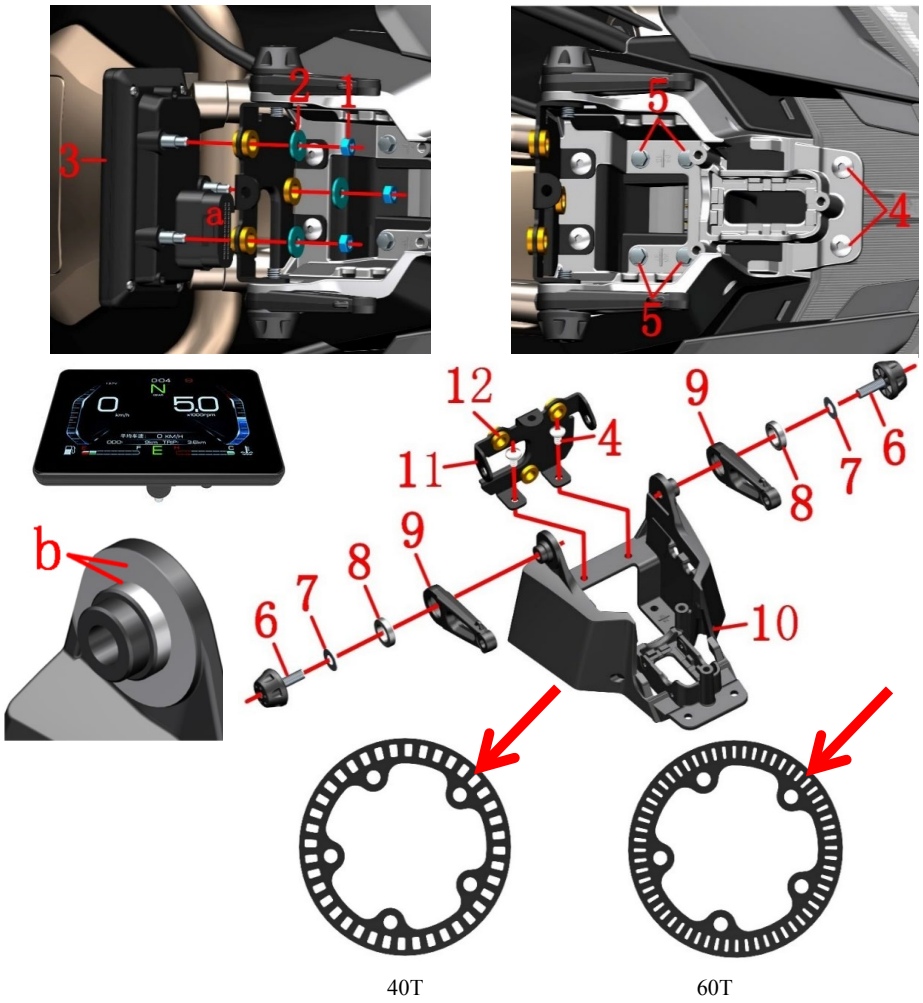


Fig. 11 FRONT FORK COMPONENT		Head cover aluminum bracket, instrument component(TFT Instrument)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250301-020093	GB6170M6(environmental color)	3	
2	1250502-010093	GB96.1φ6(environmental color)	3	
3		ZT310 universal TFT instrument	1	
4	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
5	1251112-001093	M6×16 hex flange bolt (environmental color zinc)	4	
6	1224200-093000	ZT310-T upper rocker decorative block	2	
7	1274200-136000	ZT310-T hood upper rocker gasket	2	
8	1250601-093000	6802 deep groove ball bearing	2	
9	1274200-114000	ZT310-T windshield rocker arm	2	
	4024200-078051	ZT310-T windshield rocker arm(dark gray matte)		
10	1274200-115000	ZT310-T hood aluminum bracket	1	
11	1274200-155000	ZT310-T1 instrument bracket	1	
12	1244200-092000	ZT310TFT instrument buffer rubber	3	

●Both end faces a of the aluminum cover of the head cover should be greased to reduce the resistance.

●If only the instrument and the bracket assembly are removed, the threaded part of the upper rocker trim block should be unscrewed until the end face of the thread is flush with the inner end surface of the aluminum cover of the hood. First remove the meter and then remove the meter holder.

PROCEDURE:

●Instrumentation components

Unplug the meter cable connector first. Then remove the 3 pieces nuts (1) and remove the 3 pieces gaskets (2). Remove the meter (3) from the meter holder. Note that the 40- and 60-tooth are not universal, and misuse can result in inaccurate speed and mileage. It can be distinguished by the number of front wheel ring numbers.

●Head cover aluminum bracket, instrument component

Remove the 2 bolts (4) above head light and 4 bolts (5) and remove the hood aluminum bracket and instrument support component. Be careful not to pull the meter cable and the windshield controller cable.

●Windshield rocker arm component

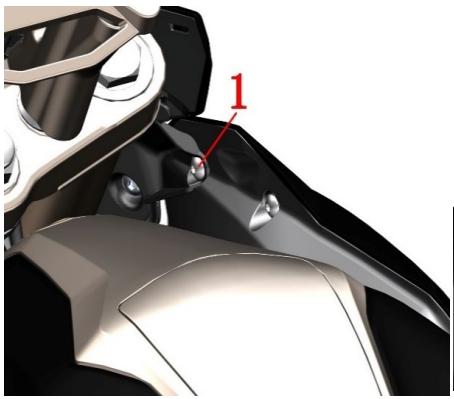
Remove the upper rocker trim (6) with the hex tool and remove the washer (7). Remove the windshield rocker arm component from the hood aluminum bracket (10). Separate the windshield rocker arm (9) from the bearing (8).

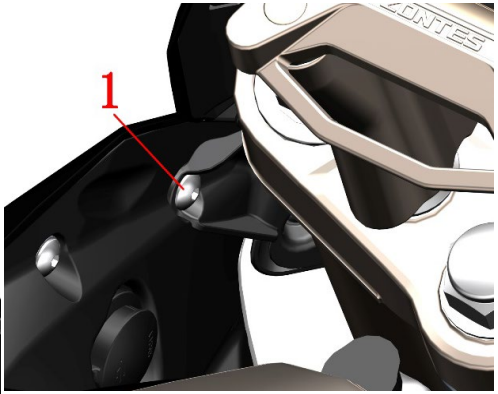
Remove 2 pieces bolts(4) fron the meter holder, remove the meter holder from aluminum support.

Remove 3 pieces buffer rubbers from the meter holder(11).

CAUTION:

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





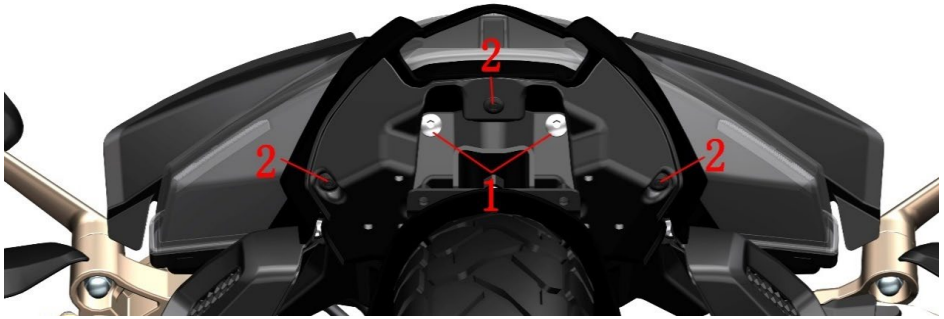


Fig. 14 FRONT FORK COMPONENT		Front fender upper component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	4	
2	1224100-010000	ZT250-S expansion nail	3	

PROCEDURE:

●Front fender upper component

Remove two bolts (1) at the joint between the front mud plate and the rear cover of the fuel tank trim cover.

Remove three expansion screws (2) on the back of the front mud plate and remove the 2 bolts (1).

After pulling the fuel tank trim cover on both sides of c to the outside car, pull out the staples at b; finally, remove the front fender plate assembly from the upper side.

CAUTION:

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

●When disassembling, pay attention to the direction and strength of force to prevent damage or scratching of the material.

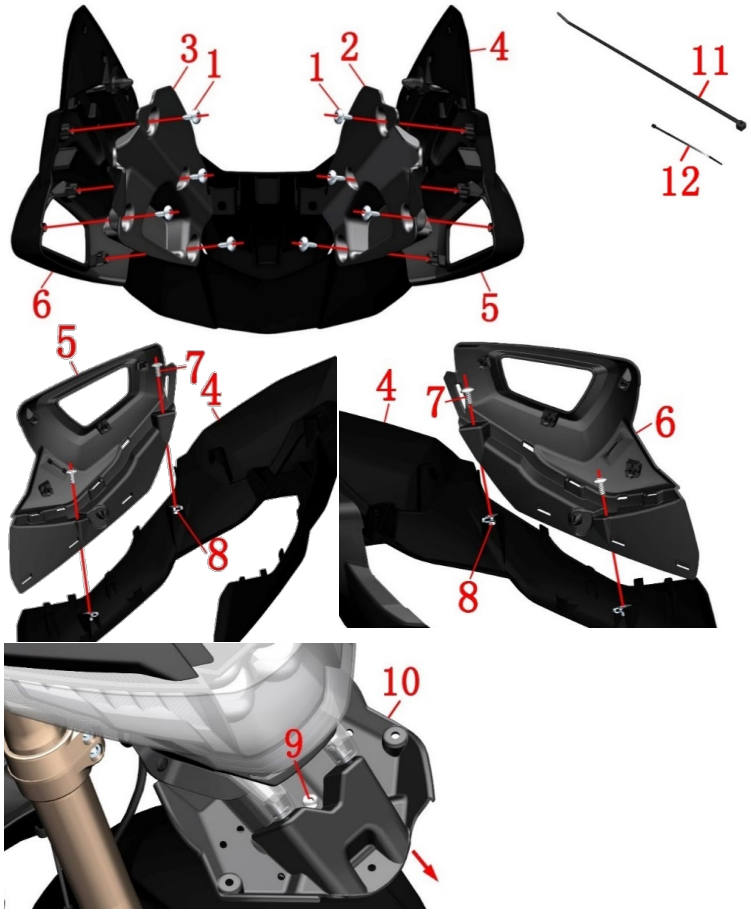


Fig. 13 FRONT FORK COMPONENT		Front fender upper component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251200-033093	Non-standard self-tapping screws ST4.2×12 (environmental color)	8	
2	1224200-081000	ZT310-T front mud board right decorative cover bottom plate	1	
3	1224200-080000	ZT310-T front mud board left decorative cover bottom plate	1	
4	4044201-106021	ZT310-T front mud plate (bright black / applique titanium gold / ADVENTURE TOURERS)	1	Bright black vehicle
	4044201-135063	ZT310-T front mud plate (bright blue / applique black / ADVENTURE TOURERS)		Bright blue vehicle
	4044201-136033	ZT310-T front mud plate (bright orange / applique black / ADVENTURE TOURERS)		Bright orange vehicle
	4044201-135002	ZT310-T front fender upper part (pearl white/applique black/ADVENTURE TOURERS)		Bright white vehicle
5	4044201-110051	dark gray front mud board right decorative cover	1	
6	4044201-109051	dark gray front mud board left decorative cover	1	
7	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
8	1251300-063093	Splint M6×11×15 (environmental color)	4	
9	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	1	
10	1224200-079000	ZT310-T front mud board back board	1	
11	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	2	
12	1224100-051000	0 grade flame retardant cable tie (black 2.5×100)	2	

CAUTION:

●When disassembling, pay attention to the direction and strength of force to prevent damage or scratching of the material.

●It is recommended to place a layer of soft non-woven fabric before placing the front fender assembly.

●The self-tapping screws must be perpendicular to the mounting surface before assembly to start tightening, and the torque should not exceed 2.5N.m to prevent damage to the parts.

PROCEDURE:

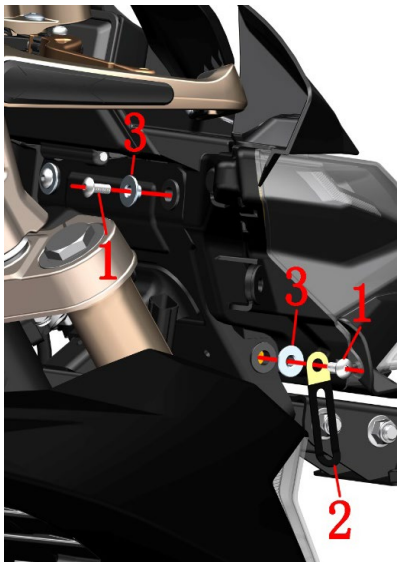
●Front fender upper component

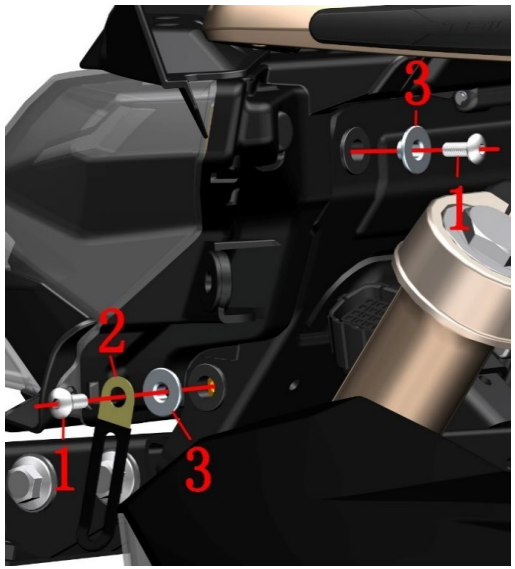
Remove the eight self-tapping screws (1) on the inside of the front fender plate assembly and remove the front damp panel left trim cover bottom plate (3) and right trim cover bottom plate (2).

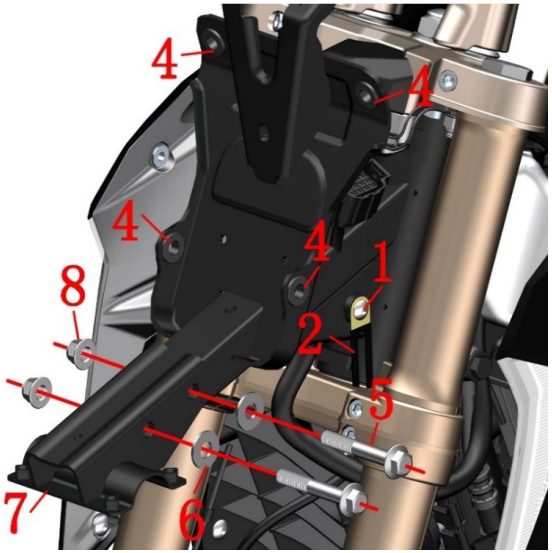
Remove the four bolts (7) from the back to the back and remove the front trim cover (5) and the right trim cover (6) from the front mud plate (4).

Remove the 4 plywood nuts (8) from the front mud plate (4).

Remove or remove the cable tie (11) and cable tie (12) and remove the cable. Remove the bolt (9) and remove the front mud plate back (10).







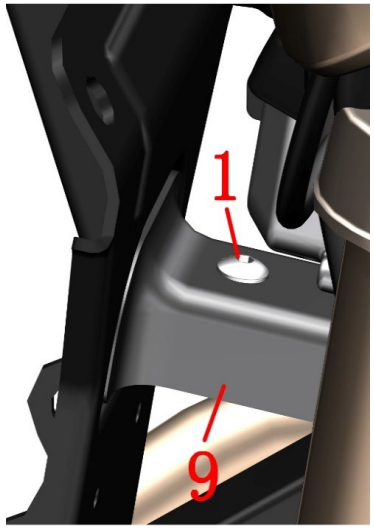


Fig. 16 FRONT FORK COMPONENT		Headlight component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	6	
2	1270300-273000	Φ8 line clamp (L=73)	3	
3	1274100-007000	ZT250－S Flanging bushing(φ6.4×φ9×6＋φ20×2)	4	
4	1244100-004000	ZT250-S Flanging Bushing Buffer	4	
5	1251100-084093	Non-standard bolt M10×1.5×66 (Dacro)	2	
6	1251500-007091	Non-standard flat pad φ10.5×φ24×2 (white zinc)	2	
7	4024200-028000	ZT310-T guard bar mounting bracket	1	
8	1251300-057093	Non-standard nut M10×1.5 (Dacro)	2	65±5N.m
9	1224200-082000	ZT310-T frame front riser trim cover	1	

PROCEDURE:

●Headlight component

Straighten the three clips (2) first. One person holds the headlight component; the other person removes the bolts on the left and right sides (1), removes the clamp (2), and the flange bushing (3), then pulls the headlight component slightly and then removes the headlight line. Cable connector. Pass the meter and windshield controller cable through the gap in the headlight component. Place the headlight component. It is recommended to place a soft non-woven fabric to prevent scratching the lampshade.

Remove the cuff bushing cushioning rubber (4) from the frame.

Remove the bolt (1) on the left side of the frame and remove the clamp (2).

●Support bracket on the guard bar

Secure the bolt (5) with a sleeve and remove the nut (8). Remove the bolts (5) and washers (6). Finally remove the mounting bracket (7) on the guard bar.

●Front riser trim cover

Remove the bolt (1) and remove the front riser trim cover (9).

CAUTION:

●When disassembling, pay attention to the direction and strength of force to prevent damage or scratching of the material.

●It is strictly forbidden to pull the cable directly. When assembling, the cable should not be bent or entangled excessively.

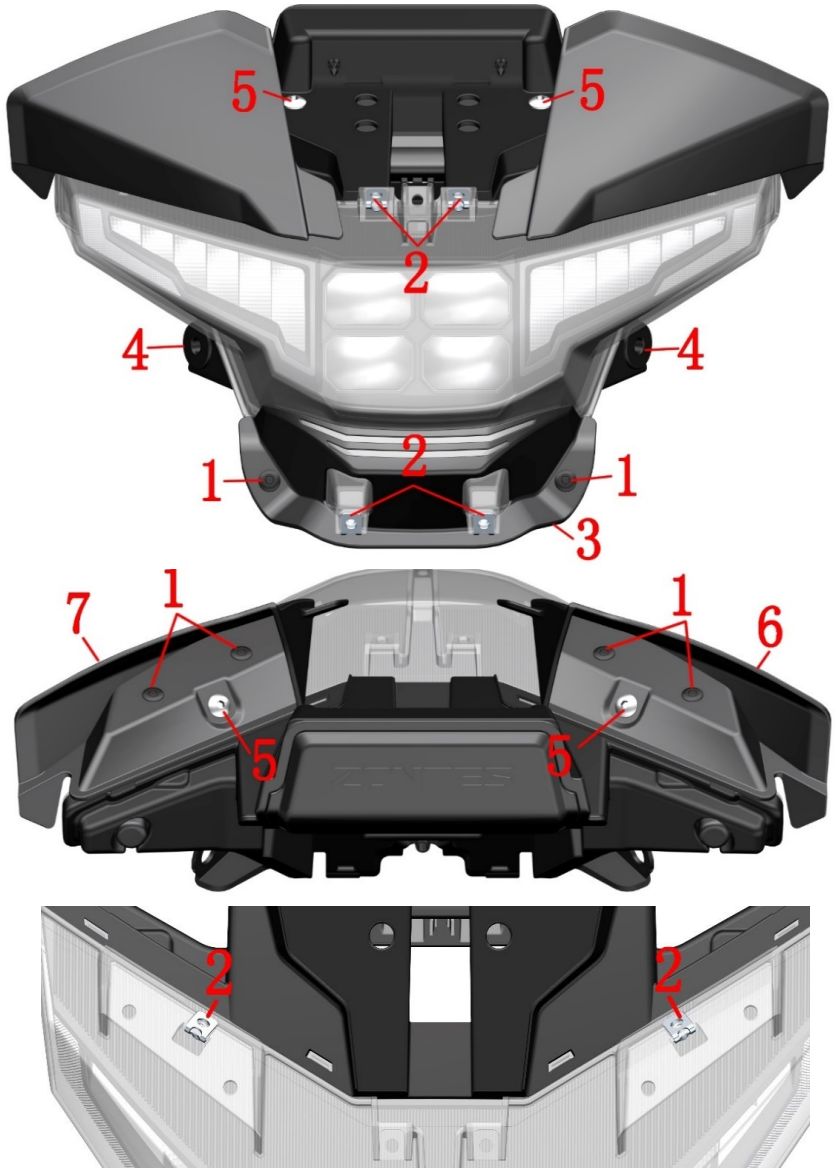


Fig. 17 FRONT FORK COMPONENT		Headlight component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S expansion nail	8	
2	1251300-063093	Splint M6×11×15 (environmental color)	6	
3	1020442-048000	ZT310-T headlight front trim cover	1	
4	1244100-002000	ZT250-S side cover round glue	2	
5	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
6	1224200-075000	ZT310-T hood right decorative cover	1	
7	1224200-074000	ZT310-T hood left decorative cover	1	

PROCEDURE:

●Headlight front cover

Use a small Phillips screwdriver to push down the center of the expansion screw (1) and remove the expansion pin. Remove the headlight cover (3).

●Hood cover

Remove the four plywood nuts (2) from the headlight component.

Remove the two bolts (5) on the front of the headlight component; remove the side cover round (4).

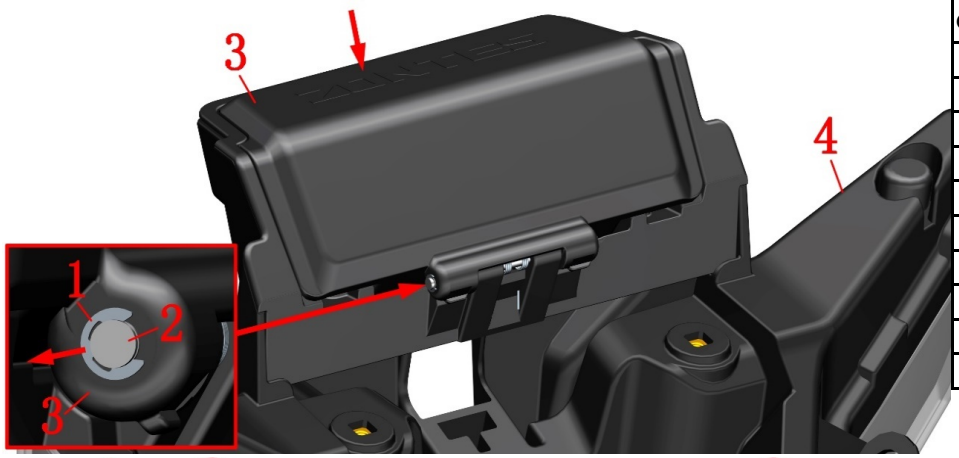
Remove the two bolts (5) and the 4 expansion pins (1) above the headlight component. Remove the hood cover left trim cover (7) and right trim cover (6).

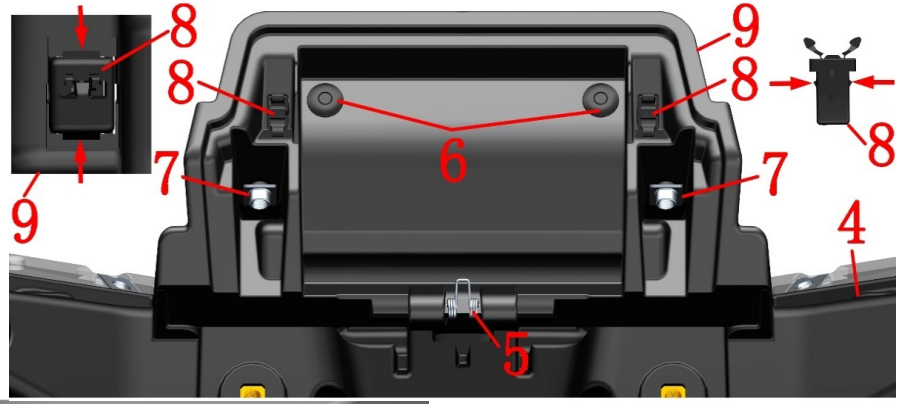
Remove the two plywood nuts (2).

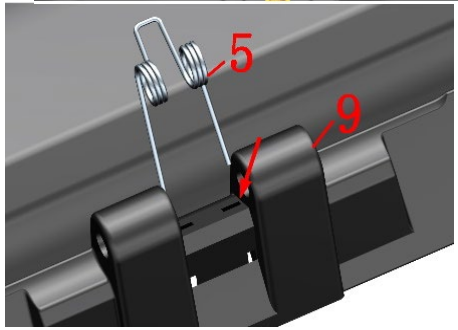
CAUTION:

●When disassembling, pay attention to the direction and strength of force to prevent damage or scratching of the material.

●Proper protection measures should be taken to prevent scratching the lampshade.







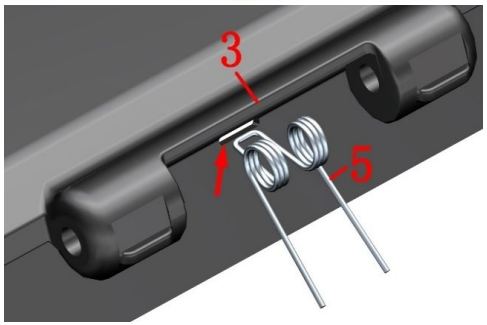


Fig. 18 FRONT FORK COMPONENT		Headlight component 3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1260100-215000	ZT310-T storage box cover rotating shaft limit circlip	1	
2	1274100-090000	ZT250-S fuel tank cover rotating shaft	1	
3	1224200-078000	ZT310-T hood cover box cover	1	
4	1174200-022000	ZT310-T headlights	1	
5	1260100-159000	ZT310-T hood debris box cover torsion spring	1	
6	1224100-010000	ZT250-S expansion nail	2	
7	1251300-063093	Splint M6×11×15 (environmental color)	2	
8	1224200-099000	ZT310-T head storage box reset lock	2	
9	1224200-077000	ZT310-T hood glove box bottom	1	

PROCEDURE:

●Miscell box components

First push the rotating shaft (2) to the left side of the vehicle and then remove the circlip (1) with pliers. Remove the rotary shaft (2).

Remove the glove compartment cover (3) from both sides of the end of the glove compartment cover "ZONTES" and remove it.

Remove the spring (5). When assembling, pay attention to the assembly. The spring (5) should be inserted into the mounting hole of the bottom of the glove box (9). Then press the cover (3) slightly against the spring head and slowly assemble the cover to the bottom of the glove box. The head slides in.

Use a small Phillips screwdriver to push down the center of the expansion screw (1) and remove the expansion pin. Separate the glove box assembly from the headlights (4).

Flip to the back of the glove box assembly and the pliers are slightly clamped in the direction of the arrow and the reset lock (8) is removed. Remove the splint nut (7) from the bottom of the glove box (9).

CAUTION:

●When disassembling, pay attention to the direction and strength of force to prevent damage or scratching of the material.

●Proper protection measures should be taken to prevent scratching the lampshade.

●The circlip should be kept in a small size. Special attention should be paid to the protection of the lock lock.

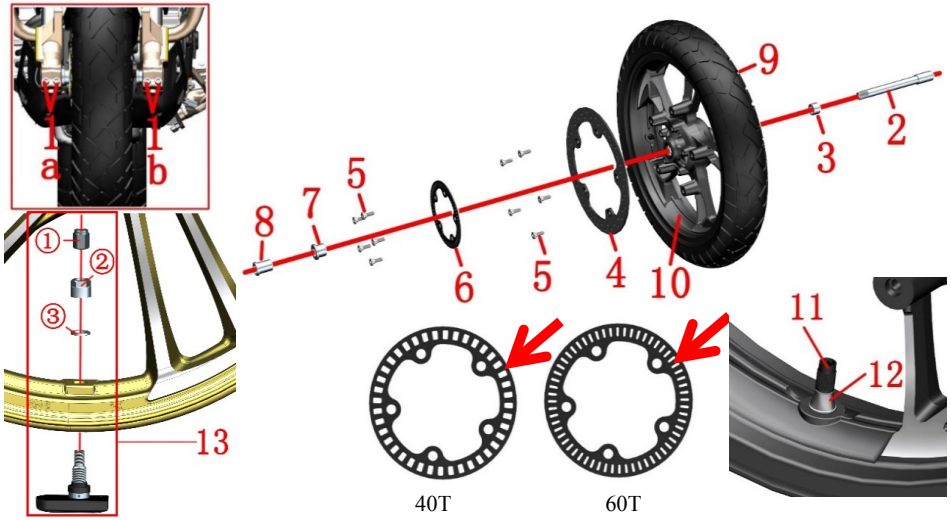


Fig. 17 FRONT FORK COMPONENT		Front wheel component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-023000	GB70.1 Hexagonal M8×35 (color zinc)	4	20N.m
2	1094100-033000	ZT250-R front wheel hollow shaft	1	
3	1094100-008000	ZT250-R front wheel left sleeve	1	
4	1100100-418000	ZT310-R1 front brake disc (300×5.0)	1	
5	1251100-117093	Non-standard hexagon socket bolt M8×25 (environmental color)	10	25N.m
6	1274200-058000	ABS induction ring gear (60 teeth)	1	
	1274200-168021	ABS induction ring gear (40 teeth)		
7	1094100-036000	ZT250-R front wheel right sleeve	1	
8	1094100-037000	ZT250-R front wheel right fixed bushing	1	
9	1230100-486000	ZT310-T 110/70R17 (CM509) tire	1	
10	1094200-026000	ZT310-R black front wheel（3.0×17）	1	
11	1230200-006000	HJ100－D tire valve cap	1	EURO IV
12	1230100-047000	HJ125－3A environmental tubeless tire valve	1	
13		ZT310 tire pressure sensor	1	EURO V

CAUTION:

●When the front wheel hollow shaft is removed, the bolts on the right front shock absorber bottom tube are loosened slightly. If the hollow shaft is too tight, the loose shaft sleeve cannot be fixed.

●Care should be taken when disassembling the tires and rims to prevent damage to the parts.

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

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

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

●Maintenance project

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. The tires are semi-hot melt rubber products and are not suitable for use in areas with low temperatures. When the outdoor temperature is too low, it is recommended to store the vehicle in a place with a high temperature or indoors to prevent freezing cracks.

Normal temperature: standard 250 kPa.

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

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

Brake disc: After the new brake disc is replaced, it should be carried out for about 300 km to fully fit in order to achieve the best braking effect. Care should be taken to ensure adequate braking distance during running-in.

PROCEDURE:

●Tire and wheel component

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 component downward to remove the right sleeve (7) and front wheel component. Finally, use the hexagonal tool to remove the 2 bolts (1) of the right front shock absorber "a", remove the right fixing sleeve (8) .

●Brake disc, ABS ring gear

Remove the bolt (5) with a hexagon and then remove the ABS ring gear (6). Remove the bolt (5) with the hexagon socket tool and remove the brake disc (4).Some vehicles produced in late May 2019 and produced before that were 40 teeth, produced after that are 60 teeth; the two kinds of ring gears could not be mixed.

●EURO IV:Tire and rim component

Unscrew the valve cap ⑾ and use the tool to release the air. Remove the tire (9) with a professional tire extractor. Finally remove the tire valve⑿ with a suitable tool then take off.

●EURO V:Tire pressure wireless built-in sensor

Remove the valve cap① that comes with the tire pressure wireless built-in sensor,use a tool to release the air, and then use a professional tire puller to remove the front tire (9), taking care to avoid the tire pressure sensor. Finally, use a 12# wrench to remove the valve nut ② and the flat washer ③, and then remove the tire pressure sensor.

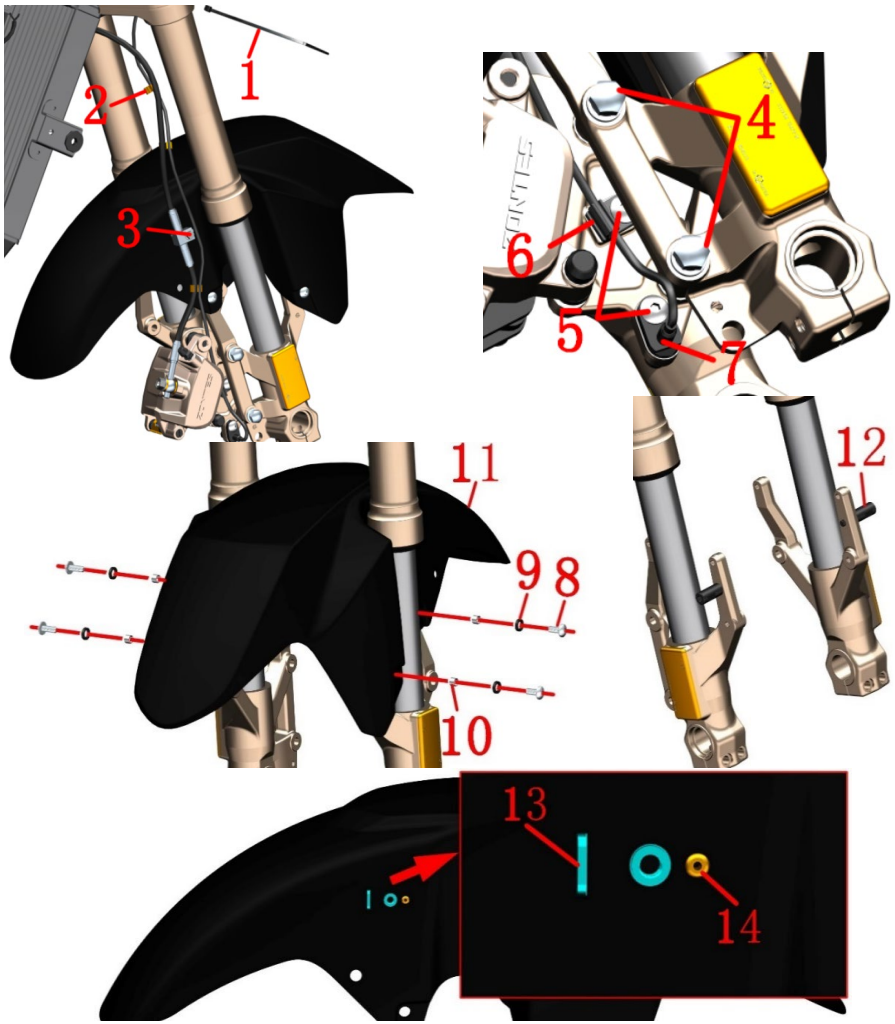


Fig. 20 FRONT FORK COMPONENT		Front mud board & wheel speed sensor component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-051000	0 level fire-retardant belting （black2.5×100）	1	
2	1224100-044000	Wheel speed sensor clamp	3	
3	1251100-061093	M6×22 hex flange face full thread bolt	1	
4	1251100-080094	Non-standard bolt M8×37 (environmental color zinc)	2	
5	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
6	1224200-127000	ZT310-T front wheel WSS wire clip	1	
7	1184200-045000	DF30 wheel 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-scalding bushing	4	
11	4044201-380021	ZT310-R front mud board component (bright black)	1	【1】
	4044201-381051	ZT310-R front mud board component (dark gray)		【2】
	4044201-382051	ZT310-R front mud board component (dark gray)		【3】
	4044201-532052	ZT310-R front fender (dark bright gray/applique white/ABS)		
12	1274200-035194	ZT310 Front mudguard liner(black zine)	2	
13	1274200-038000	ZT310-X front mud board front oil pipe fixing seat	1	after-sale
14	1250402-001091	GB12615φ3×10	1	

CAUTION:

●[1] is used for special black vehicles; [2] is used for dark gray and bright blue vehicles; [3] is used for dark gray and bright orange vehicles.The mudguard component has been included Front mudguard front oil pipe fixing seat(11) and Rivet(12). Rivets need to be assembled with professional tools.

PROCEDURE:

●Wheel speed sensor

Pull out the plug of the wheel speed sensor (7); cut off the belting (1); then remove 3 pcs clamp (2).Pull out the sensor cable from the clip(6) and remove the bolts(3) abd bolts(5) on the bottom, remove the sensor(7).

●Front disc brake caliper

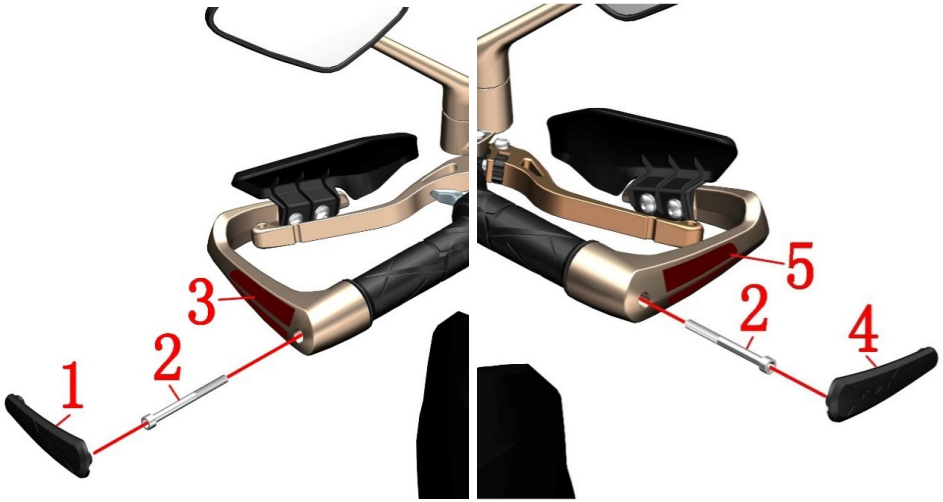
Remove the bolts (3) and (4) so that the caliper will hang down naturally. It is forbidden to invert the caliper to prevent the air from entering and causing the brake to fail.Remove thebolt(5) on the clip(6) and take out of it.

●Front mudguard

Hold the front mud plate (11) with your hand and then remove the 4 bolts (8) 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.



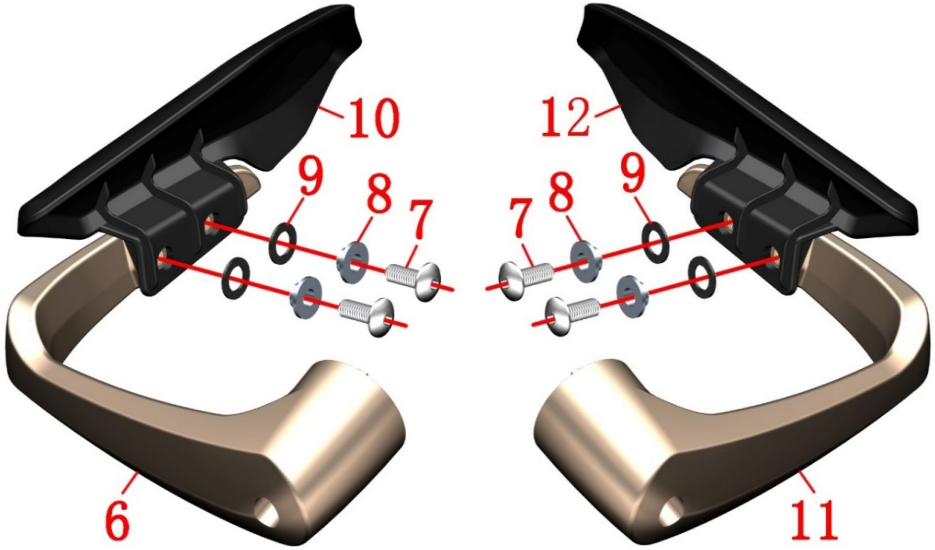


Fig. 21 FRONT FORK COMPONENT		Hand guard component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244200-059021	ZT310-T left hand windshield hand gel	1	
2	1250205-085000	GB70.1M6×70 (stainless steel)	2	
3	1244200-077000	ZT310-T left hand protection decorative rubber strip	1	
4	1244200-060021	ZT310-T right hand windshield hand gel	1	
5	1244200-078000	ZT310-T right hand protection decorative rubber strip	1	
6	1134200-009000	ZT310-T aluminum alloy left hand	1	
7	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
8	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	4	
9	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	4	
10	1224200-087000	ZT310-T left hand windshield	1	
11	1134200-007000	ZT310-T aluminum alloy right hand guard	1	
12	1224200-088000	ZT310-T right hand windshield	1	

PROCEDURE:

●Left hand guard components

Use a sharp tool to insert the larger end of the left hand gel (1), pick up the hand gel and tear it off. Clean the left hand protector strip (3). Remove the bolt (2) with a hexagonal tool and remove the left hand component.

Remove the two bolts (7), remove the bushing (8), and the rubber pad (9). Separate the left hand guard (6) from the left windshield (10).

●Right hand guard component

Follow the steps above to apply the right hand gel (4), the right hand guard rubber strip (5), the right hand guard (11) and the right windshield (12).

CAUTION:

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

●Protective measures should be taken to prevent scratching of materials.

●Hand protection decorative rubber strip can be replaced by 3M double-sided tape.

●When reassembling, pay attention to align the limit boss of the hand guard with the groove of the direction handle, and then tighten the bolt to prevent the hand guard from rotating.

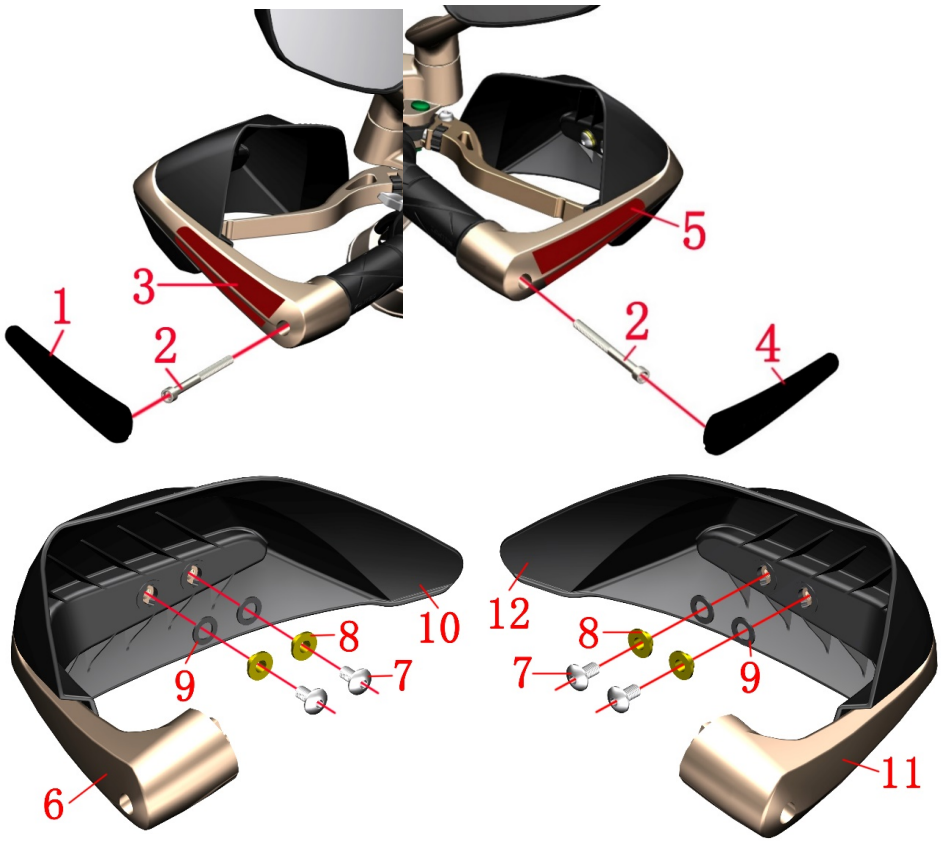


Fig. 22 FRONT FORK COMPONENT		Hand guard component(Bosch)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244200-059021	ZT310-T left hand windshield hand gel	1	
2	1250205-085000	GB70.1M6×70 (stainless steel)	2	
3	1244200-077000	ZT310-T left hand protection decorative rubber strip	1	
4	1244200-060021	ZT310-T right hand windshield hand gel	1	
5	1244200-078000	ZT310-T right hand protection decorative rubber strip	1	
6	1134200-024051	ZT310-T Aluminum alloy left handguard (2021)	1	
7	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
8	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	4	
9	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	4	
10	1224200-203021	ZT310-T left handguard (2021 model)	1	
11	1134200-025051	ZT310-T aluminum alloy right handguard (2021)	1	
12	1224200-199021	ZT310-T right handguard (2021 model)	1	

PROCEDURE:

●Left hand guard components

Use a sharp tool to insert the larger end of the left hand gel (1), pick up the hand gel and tear it off. Clean the left hand protector strip (3). Remove the bolt (2) with a hexagonal tool and remove the left hand component.

Remove the two bolts (7), remove the bushing (8), and the rubber pad (9). Separate the left hand guard (6) from the left windshield (10).

●Right hand guard component

Follow the steps above to apply the right hand gel (4), the right hand guard rubber strip (5), the right hand guard (11) and the right windshield (12).

CAUTION:

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

●Protective measures should be taken to prevent scratching of materials.

●Hand protection decorative rubber strip can be replaced by 3M double-sided tape.

●When reassembling, pay attention to align the limit boss of the hand guard with the groove of the direction handle, and then tighten the bolt to prevent the hand guard from rotating.

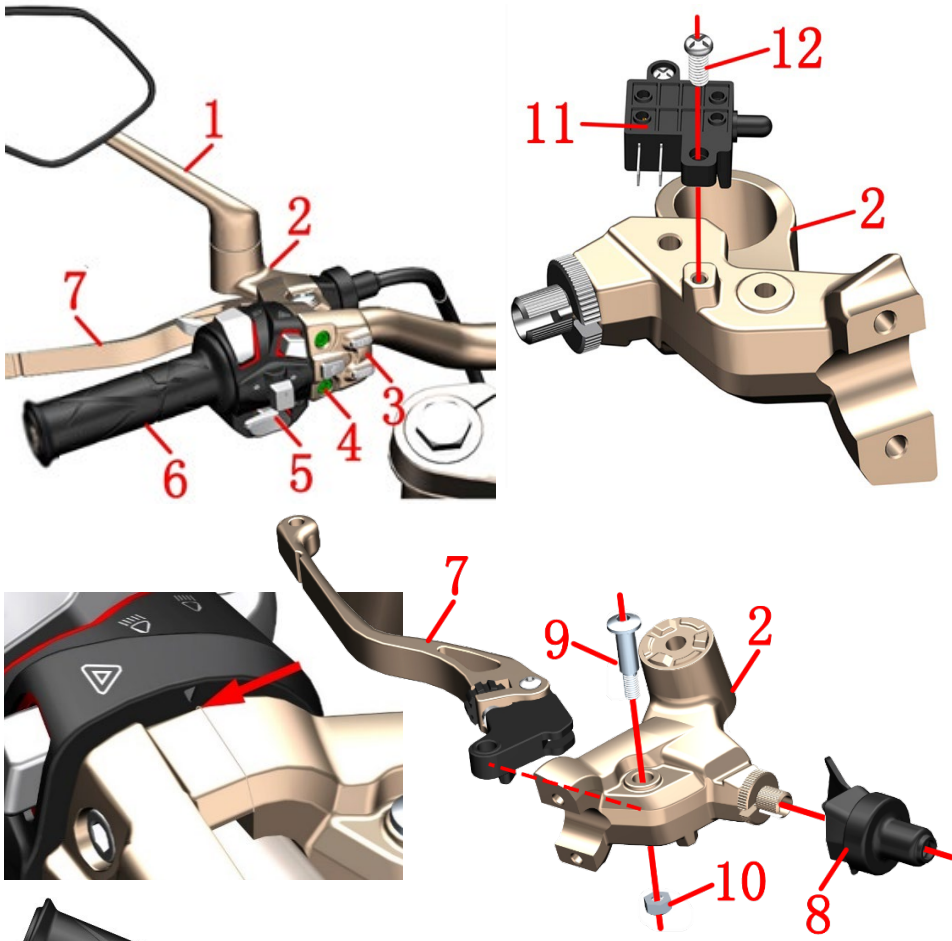


Fig.21 FRONT FORK COMPONENT		Left hand component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1194100-001000	ZT250－S left rear view mirror	1	
2	1134200-011000	ZT310－V left hand rocker arm component	1	
3	1184200-144000	ZT310－X1 Second generation left hand switch (TFT)	1	
4	1250205-031091	GB70.1M6×30 (stainless steel)	2	
5	1184200-141000	ZT310－X1 left handlebar switch	1	
6	1244100-041000	ZT250－R left hand rubber sleeve	1	
7	1134200-010000	ZT310-V left hand rocker arm (machine plus)	1	
8	1244200-046000	ZT310-V clutch line sheath	1	
9	1251100-198000	Non－standard bolt M6×13－φ8×20	1	
10	1251300-073000	GB/T6185 nut M6	1	
11	1184200-170000	ZT310-V Clutch switch	1	
12	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(7) by referring to the steps in "Right Handle Assembly" and "Add Brake Fluid, Adjusting Rocker Arm".

●Left hand rubber sleeve

Can be soaked in hot water for about 10 minutes before 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 outward.

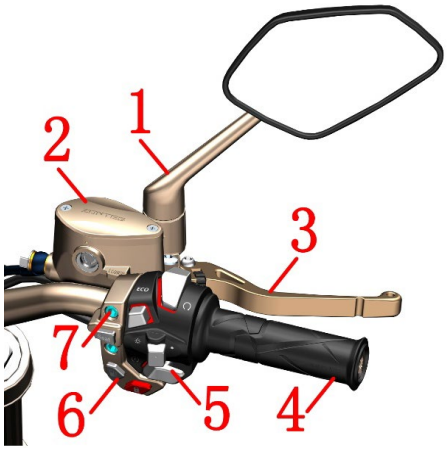
●Replace the left hand rocker arm and clutch switch

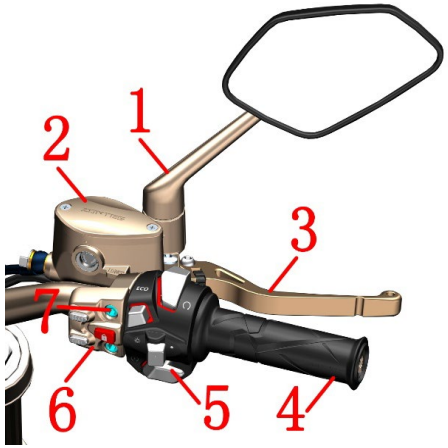
Fix the bolt(9) with a hexagonal tool, then remove the nut(10) with a sleeve or a wrench, remove the bolt(9) and then remove the left hand rocker arm(7). First unplug the clutch switch, then remove the bolt(12) with a Phillips screwdriver and remove the clutch switch(11). The rotation adjustment nut 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.

●Press during reassembly: the left hand grip rubber sleeve - switch - left hand rocker arm component - left rear view mirror. Note the triangle symbol on the rocker arm component and the secondary switch seam alignment switch.





Old

New

Second Generation Right Handlebar Switch (TFT)

Second Generation Right Handlebar Switch (Liquid crystal)

ZT310-X right hand switch

ZT310-X right hand switch(TFT)

Fig. 24 FRONT FORK COMPONENT		Right hand component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1194100-002000	ZT250-S right rear view mirror	1	
2	1100300-044000	ZT125T front disc brake main pump component (without handle)	1	
3	1134100-032000	ZT250-R right hand rocker arm (machine plus)	1	
4	1244100-042000	ZT250-R right hand rubber sleeve	1	
5	1184200-022000	ZT310-X right hand switch	1	Stop selling
	1184200-140000	ZT310-X1 right hand switch		New
6	1184200-086000	ZT310-X right hand switch(TFT)	1	Stop selling
	1184200-145000	Second Generation Right Handlebar Switch (TFT)		New
	1184200-023000	ZT310-X right hand switch		Stop selling
	1184200-151000	Second Generation Right Handlebar Switch (Liquid crystal)		New
7	1250205-031091	GB70.1 M6×30 (stainless steel)	2	
8	1154200-003000	ZT310-X throttle oil line	1	
9	1154200-004000	ZT310-X throttle return line	1	

PROCEDURE:

●Right hand handle component

Remove the right rear view mirror (1) by referring to the method of removing the left-hand view mirror from the previous page.

Locate and unplug the cable of the right handle switch (5) and sub switch (6).

First remove the bolt (7) and remove the sub-switch (6). Pay attention to keeping the side of the “ZONTES” on the front disc brake main pump (2) horizontally to prevent the air from entering the brake hose and causing the brake to fail.

Refer to the procedure for replacing the throttle line in the front to remove the right hand switch (5), the throttle refueling line (8), the return line (9), and the right hand grip (4).

The front disc brake main pump (2) and the rocker arm (3) are decomposed by referring to the step of adding the brake fluid.

CAUTION:

●The vehicle's horizontal support should be fixed before checking.

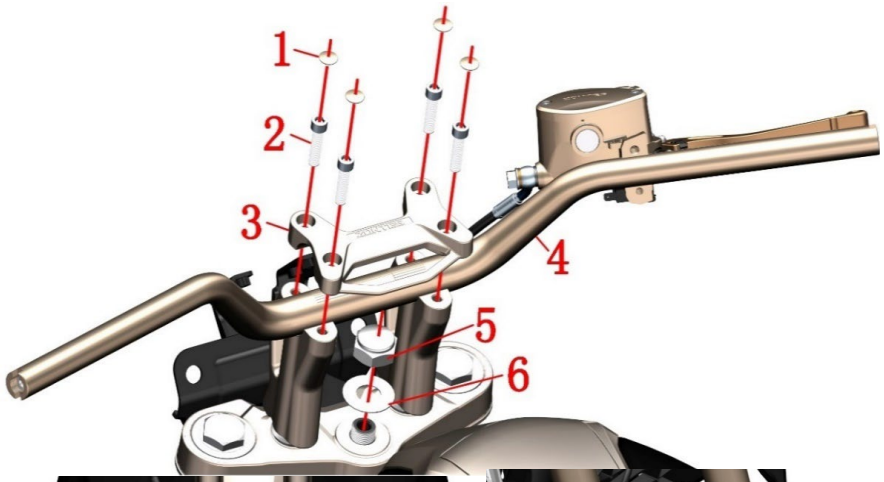
●Check that the fluid level of the brake fluid is between 3/4 of the “observation window”.

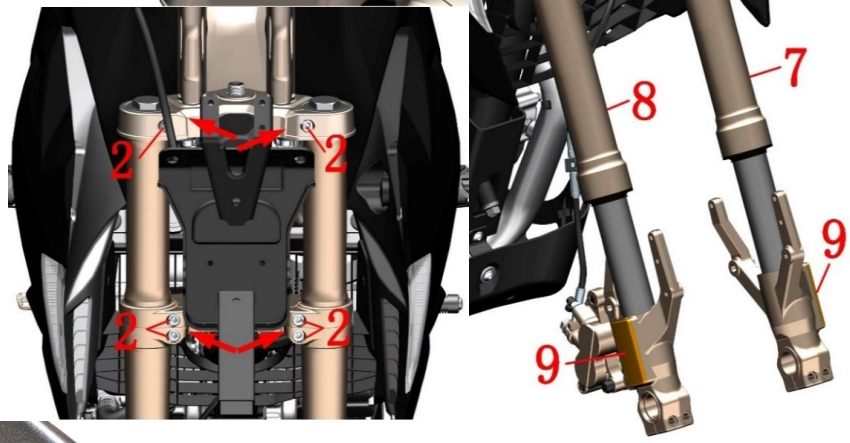
●Do not flush the oil cup directly with high pressure water.

●When assembling the balance block, the convex parts at both ends of the elastic piece should be aligned and the upper fixed hole should be inserted into the hole.

●The seam between the main disc and the sub-switch of the front disc brake should be aligned with the triangle on the right-hand switch.

●Old switch can be replaced as new models.





The letters behind the ZT+4 number on the inside of the bottom cylinder represent the shock-absorber models, such as “X”, “T40G”. For example, ZT2003T40G: "ZT" stands for ZONTES, "2003" stands for March 2003, and "T40G" is the shock absorber model.

Fig. 25 FRONT FORK COMPONENT		Hand bar component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044102-001051	ZT250-SM8 bolt decorative buckle	4	
2	1250205-023000	GB70.1 Hexagon M8×35 (environmental color zinc)	10	
3	1134200-005000	ZT310-R direction press block (homemade)	1	
4	1134200-008000	ZT310-T direction	1	
5	1251300-045000	ZT250-S upper plate decorative nut (chrome plated)	1	
6	1251500-050000	ZT250-S upper plate gasket φ18.5×φ39×1	1	
7		Front left shock absorption(Improved version)	1	
8		Front right shock absorption	1	
9	1174100-001000	ZT250-S reflector	2	after-sales

PROCEDURE:

●Directional components

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

●Uplink board component

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

●Front left and right shock absorption

Remove the bolts (2) on the lower joint plate, hold the shock absorber in the middle with one hand, and insert a slotted screwdriver into the slots of the upper and lower joint plates to slightly enlarge the slot gap, and separate the left shock absorber (7) and the right shock absorber (8). under. Remove the upper plate component.

●Reflecting film

The reflector is replaced by a spare part for sale (no replacement shock absorption). The heat-reflecting sheet can be moved back and forth with a hot air gun to reduce the viscosity of the double-sided adhesive after being heated. After removing the reflector, the residual glue should be cleaned first.

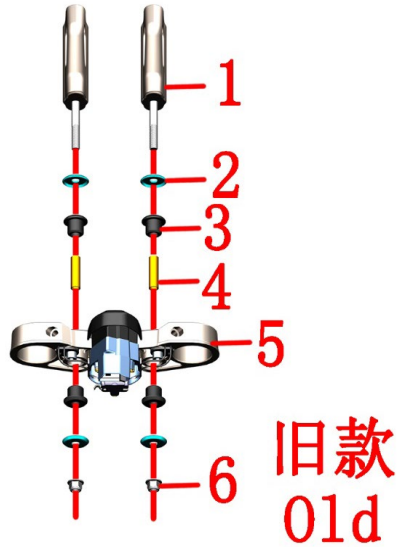
CAUTION:

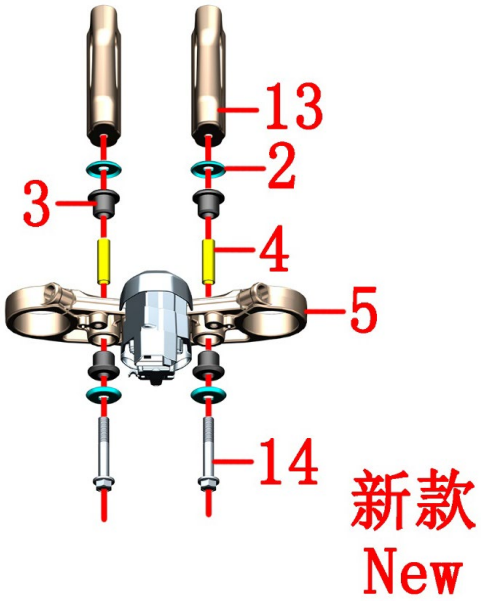
●Protect protective measures to prevent scratching the appearance of the material.

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

●The damping state can be distinguished by the lettering inside the front shock absorber bottom tube. The shock absorber lengths of different models are different and cannot be mixed.

●From April 21, 2020, the front shock absorber of the high seat version has been changed from "T40" to "T40G".





Stop selling

New

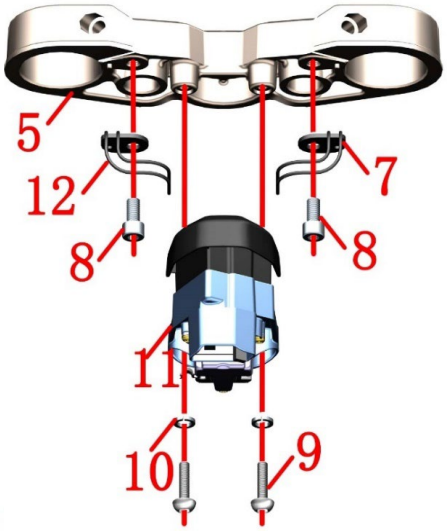


Fig. 26 FRONT FORK COMPONENT		Uplink plate, handle bar component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1134200-013000	ZT310-X hamdle bar block component	2	Stop selling
2	1274200-018000	ZT310-R upper plate gasket	4	
3	1244200-008000	ZT310-R upper plate buffer rubber	4	
4	1251700-065000	ZT310-R bushing φ10×φ12×41	2	
5	1134200-004000	ZT310-R uplink board (homemade)	1	
6	1251300-057093	Non-standard nut M10×1.5 (Dacro)	2	40N.m
7	1274200-105000	ZT310-T left wiring bracket	1	
8	1250205-040095	GB70.1. Hexagon bolts M8×16 (color zinc)	2	
9	1251100-121093	Non-standard bolt M6×25 (environmental color)	2	
10	1250501-007093	GB93φ8 (environmental color)	2	
11	1184200-035000	ZT310-X electronic faucet lock (DC)	1	Stop selling
	1184200-138000	ZT310 faucet lock(electromagnetic/line 450) assembly	1	New
12	1274200-106000	ZT310-T right wiring bracket	1	
13	1134200-040051	ZT310－X direction pad M10×1.25（titanium）	2	New
14	1250105-280000	GB5789 M10×1.25×60 (level 10.9 dacromet)	2	

PROCEDURE:

●Uplink plate and spacer component

In order to facilitate the direction of the block, it is recommended to assemble the direction and the upper block 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.

Old: Using 14# sleeve remove the nut (6) and remove the gasket (2), cushion rubber (3), and bushing (4).

New:Using 14# sleeve remove the bolt(14) and remove the gasket(2), cushion rubber(3), and bushing(5).

Remove the upper plate component.

●faucet lock

Remove the bolt (9) and remove the spring washer (10) and the faucet lock (11). Two pieces of spring pad (10) will be added from October 31, 2018.

Remove the bolts (8) and remove the left wiring bracket (7) and the right wiring bracket (12).

CAUTION:

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

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

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

●Old faucet lock can be replaced as new models.

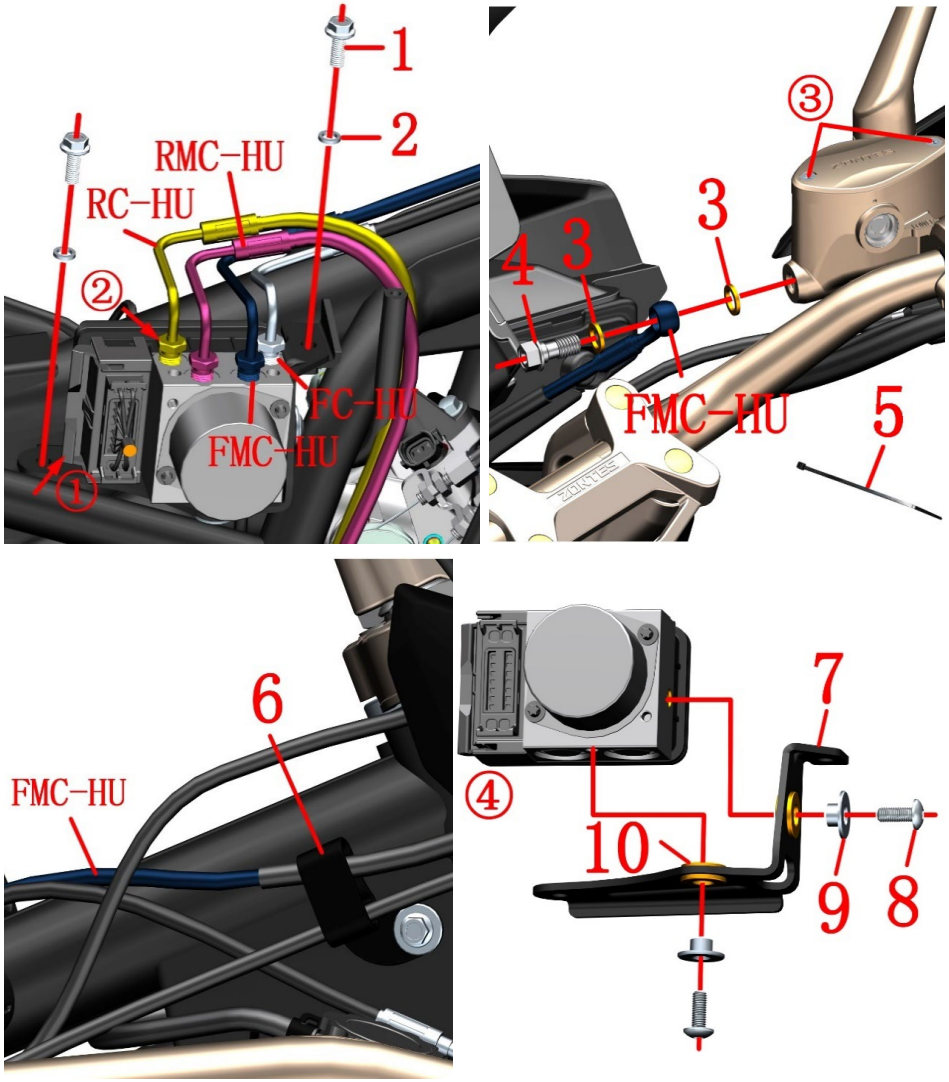


Fig. 27 FRONT FORK COMPONENT		ABS brake system-1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251112-001093	M6×16 Hexagon flange bolt （color zinc）	2	
2	1250501-010000	GB93 φ6 (environmental color)	2	
3	1251513-013000	Brake brake tubing copper washer φ15×φ10.2×1.5	2	
4	1251100-112000	Disc brake tubing bolt M10×1－22	1	32N.m
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 bushing(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.

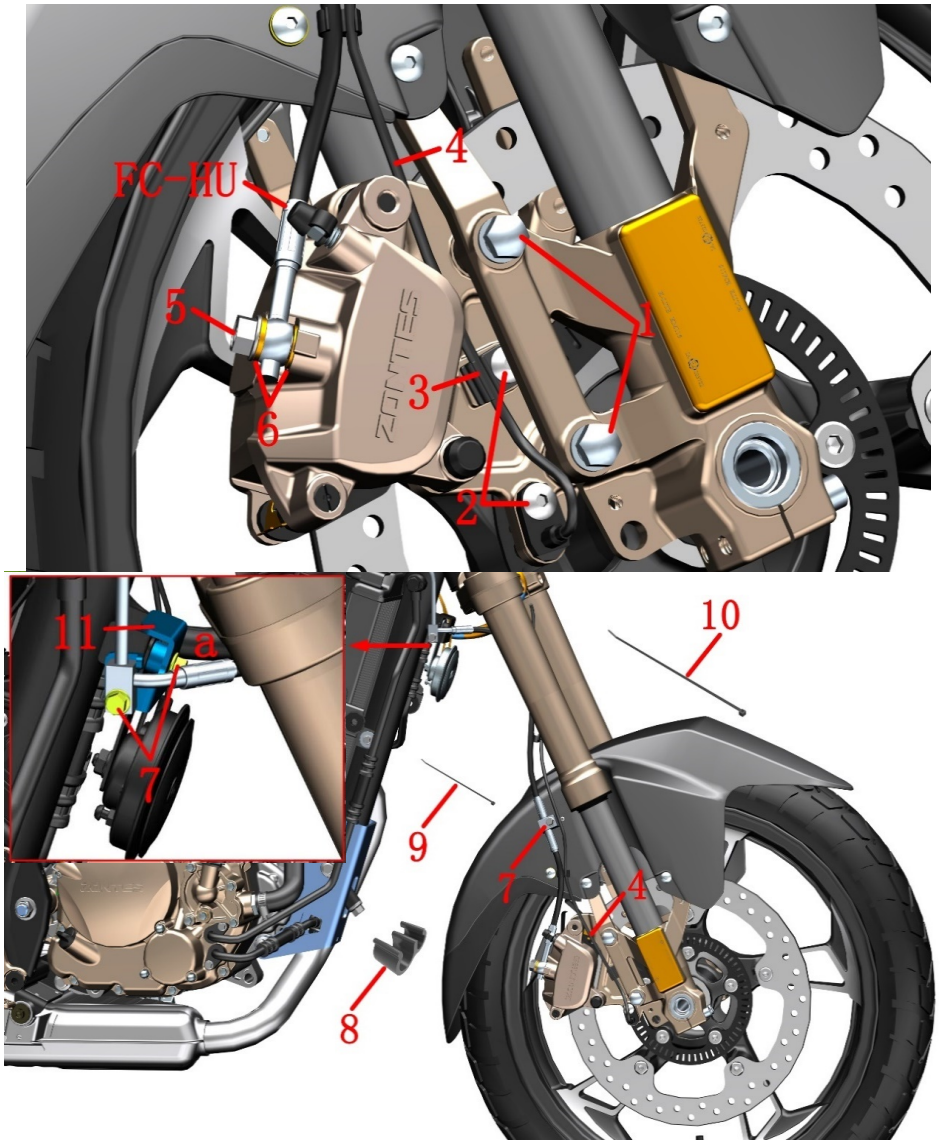


Fig. 28 FRONT FORK COMPONENT		ABS brake system-2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-080094	Non-standard bolt M8×37 (environmental color zinc)	2	
2	1251100-101000	Non－standard bolt M6×12 (304 stainless steel)	2	
3	1224200-127000	ZT310-T front wheel WSS wire clip	1	
4	1184200-045000	DF30 system wheel speed sensor	1	
5	1251100-112000	Disc brake oil pipe bolt M10×1-22	1	32N.m
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

Place 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.

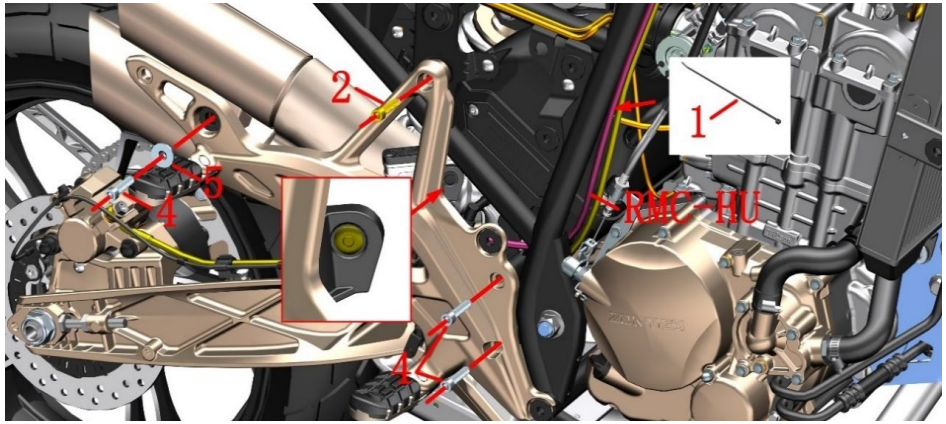
CAUTION:

●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.



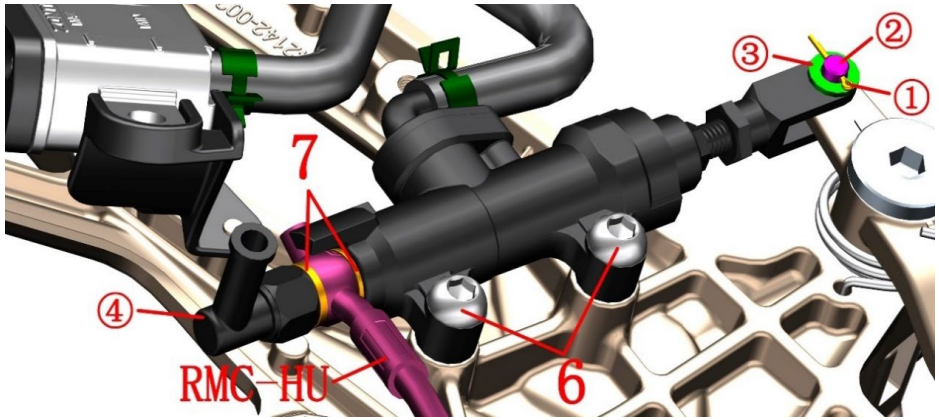


Fig. 29 FRONT FORK COMPONENT		ABS brake system-3	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-037000	0 grade flame retardant cable tie (black 3.6×295)	1	
2	1250205-034093	GB70.1 Hexagonal M8×30 (environmental color zinc)	1	
3	1224100-010000	ZT250-S expansion nail	1	
4	1250205-023000	GB70.1 Hexagonal 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.

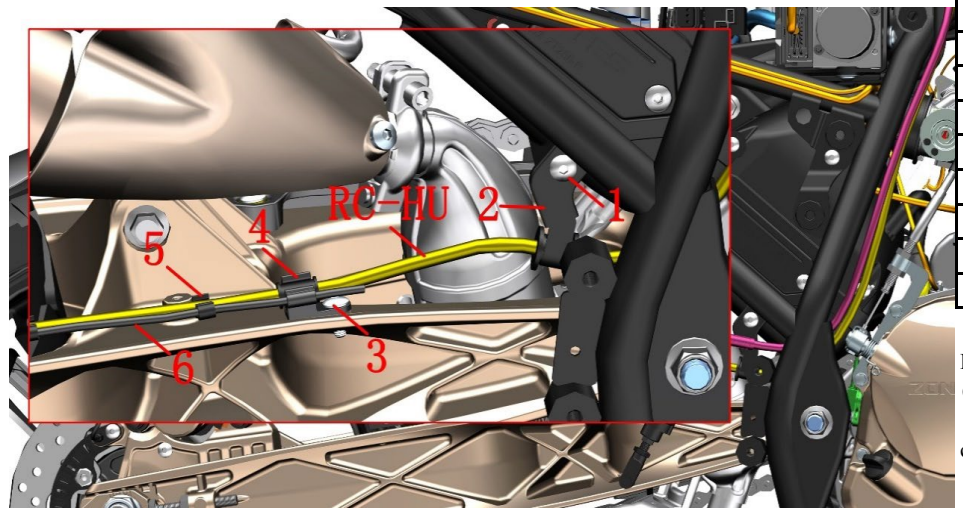
Remove the bolt (8), remove the bushing (9), rubber pad (10), and remove the oil cup bracket (11) from the right footrest bracket.

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.



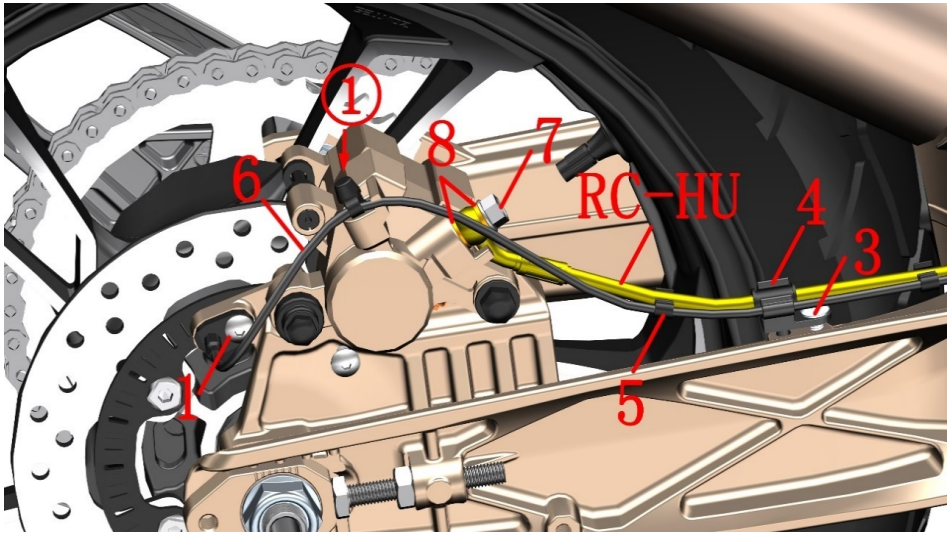


Fig. 30 FRONT FORK COMPONENT		ABS brake system-4	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
2	1274200-034000	ZT310－R oil pipe clamp of rear disc brake	1	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
4	1224200-003000	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	32N.m
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).

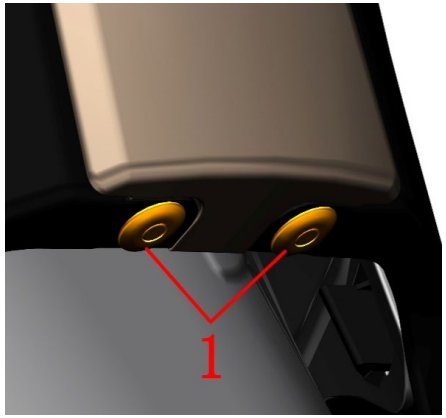
After wearing the waterproof gloves, remove the bolts (7) with a 12# sleeve; remove the copper washers (8). If you need to replace the RC-HU tubing, it is recommended to replace the two copper washers (8) at the same time; the bolts (7) can be replaced if they are not damaged.

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.



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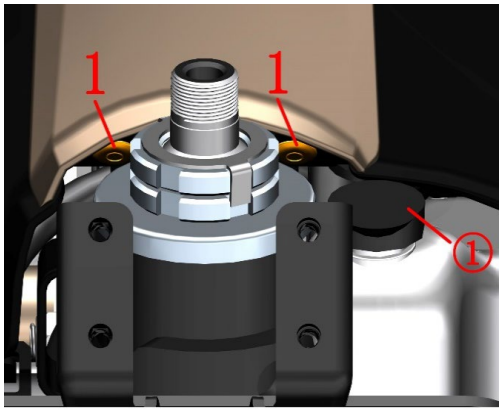
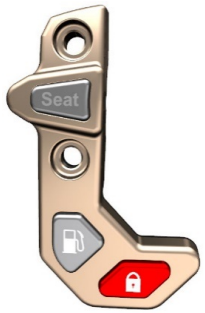


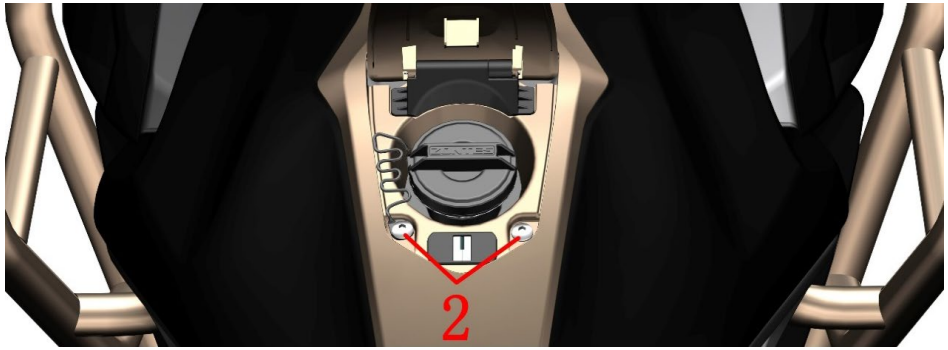
B



Or

C

D



E

Fig. 1 FUEL TANK 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 component

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

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

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

Remove the bolt (2) (Figure E).

Grasp the head of the middle cover assembly and pull it up; grasp the tail of the middle cover assembly and pull it up. Pay attention to the nylon cord ② of the fuel tank cap.

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

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.

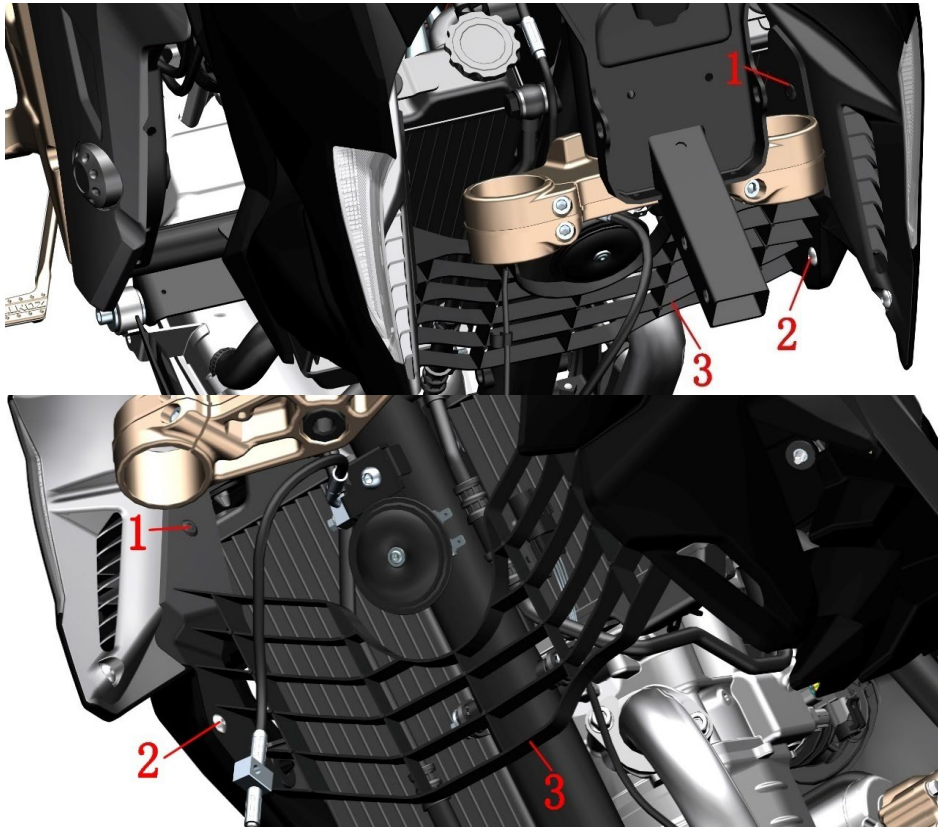
Large tank version

Small tank version

Fig. 2 FUEL TANK COMPONENT		Fuel tank cover, fuel tank cover, fuel tank lock	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044201-325035	ZT310-T fuel tank cover (titanium matte)	1	【2】
	4044201-329064	ZT310-T fuel tank cover (bright blue)		【3】
	4044201-331033	ZT310-T fuel tank cover (bright orange)		【4】
	4044201-018035	ZT310-R fuel tank cover (titanium matte)		【5】
	4044201-018064	ZT310-R fuel tank cover (bright blue)		【6】
	4044201-139033	ZT310-R fuel tank cover (bright orange)		【7】
	4044201-329002	ZT310-T fuel tank cover (Pearl white)		
2	1184200-002000	ZT310 electronic fuel tank lock	1	
3	4044201-326035	ZT310-T fuel tank cover (titanium matte)	1	【2】
	4044201-330064	ZT310-T fuel tank cover (bright blue)		【3】
	4044201-332033	ZT310-T fuel tank cover (bright orange)		【4】
	4044201-019035	ZT310-R fuel tank cover (titanium matte)		【5】
	4044201-019064	ZT310-R fuel tank cover (bright blue)		【6】
	4044201-140033	ZT310-R fuel tank cover (bright orange)		【7】
	4044201-330002	ZT310-T fuel tank cover (Pearl white)		
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 storage box cover rotating shaft limit circlip	1	【1】

●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 assembling, pay attention to whether the length of the process clip 1 on the outer cover is too long. If it is too long, be sure to cut it short.
● 【1】 The fuel tank cover rotation bracket (5) already contains a circlip (7).
● 【2】&【3】&【4】 for large tank version. 【5】&【6】&【7】 for small tank version.
● 【2】&【5】 for black vehicle. 【3】&【6】 for blue vehicle. 【4】&【7】for orange vehicle.

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 component
Use a needle-nose pliers to clamp the tab of the swivel bracket (5) with a slight force. Remove the cover component and pay attention to the force to prevent damage to the buckle.
Remove the circlip (7) attached to the rotating shaft (6), which is the self-contained rotating bracket (5). Remove the rotating shaft and separate the rotating bracket (5) and damper (4).
CAUTION:
●The material should be protected during the disassembly process to prevent damage to the paint surface.



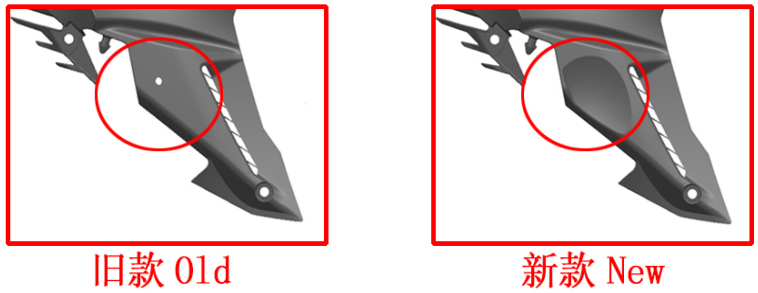


Fig. 3 Fuel tank component		Decorative cover grill	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S expansion nail	2	
2	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
3	1224200-053000	ZT310-R decorative cover grill	1	

PROCEDURE:

●Furniture cover grille

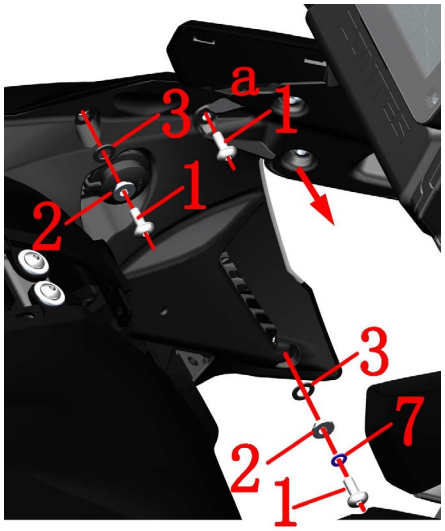
Remove the expansion screw (1) and the bolt (2).

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.



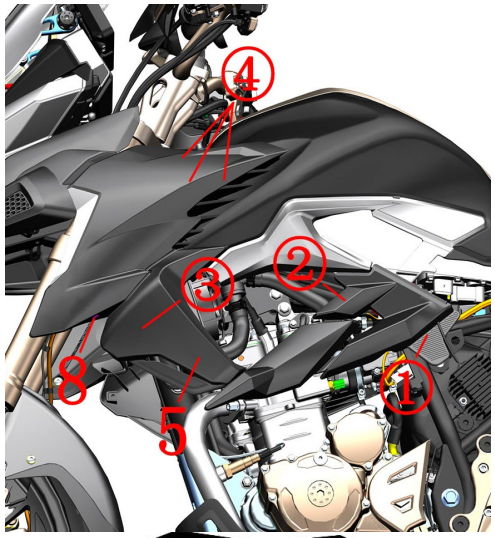


Fig. 4 Fuel tank component		Fuel tank cover component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	6	
2	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	6	
3	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	6	
4	1251300-063093	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

First remove the bolt (1) at a, pull the bottom plate of the front cover of the front mud plate slightly, and remove the bushing (2) and the cushion rubber (3). Then remove the other two bolts (1); remove the bushing (2) and the cushion rubber (3).

Remove the expansion screw (8), pull out in the order ①-②-③ and pull out the trim cover (5).

Press ④ 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.

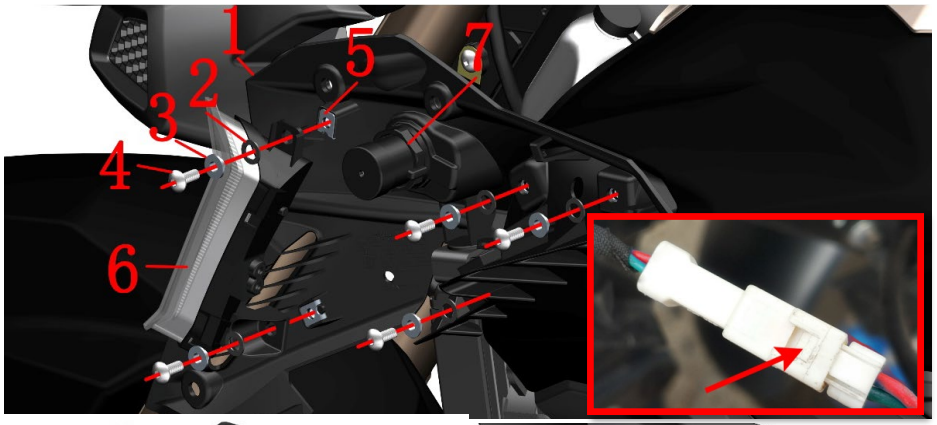
CAUTION:

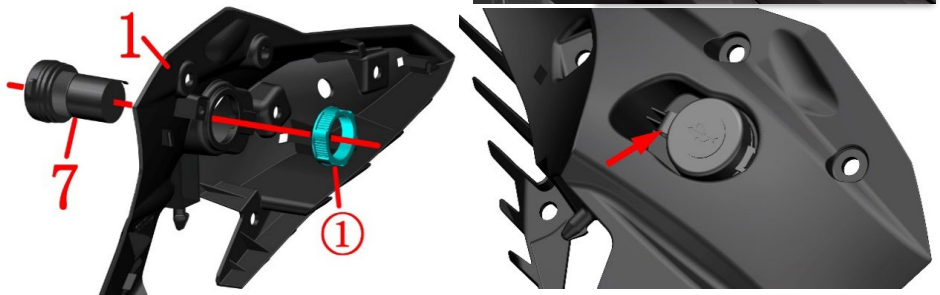
●The left and right side covers and cushions must be removed in advance.

●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 the④ 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.





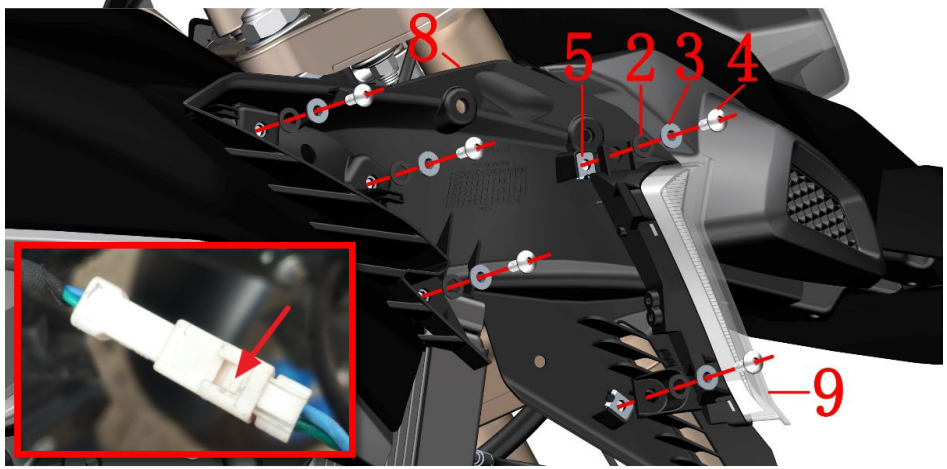


Fig. 5 FUEL TANK COMPONENT		Fuel tank trim cover rear shell component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-013000	ZT310-R fuel tank left decorative cover back shell	1	
2	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	10	
3	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	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 component

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

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

Remove the nut ①.

●Right tank trim cover back shell component

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

Remove the two 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.

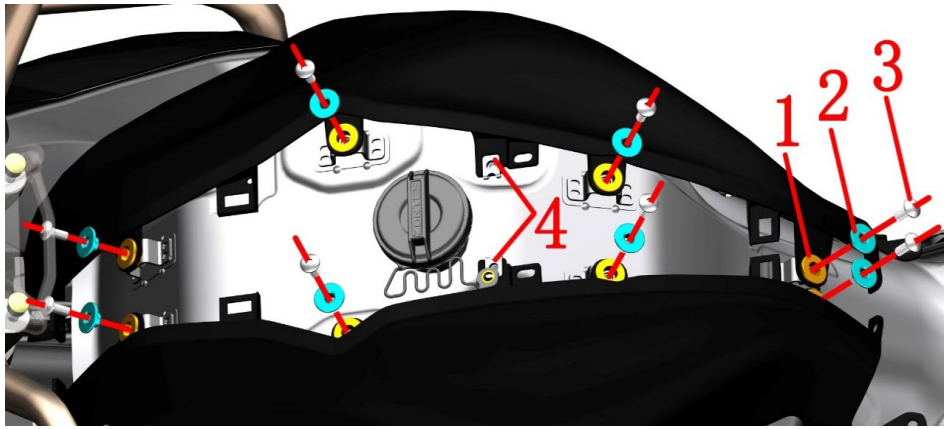
Remove the other three bolts (4) from the rear cover (8) of the right trim cover, and remove the bushing (3) and the cushion rubber (2). Remove the right decorative cover back cover (8).

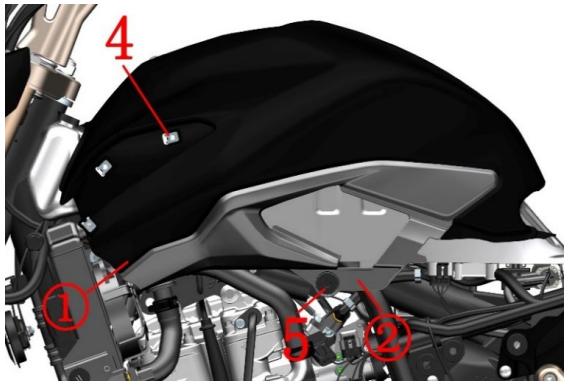
CAUTION:

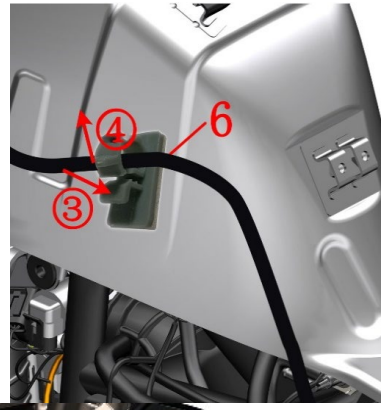
●Do not pull the cable directly when unplugging the connector. The cable should not be bent or entangled excessively during component.

●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.







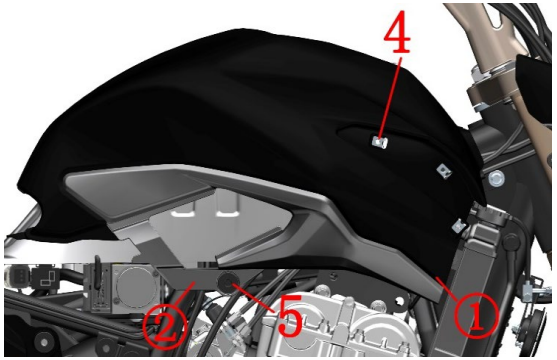


Fig. 6 FUEL TANK COMPONENT		Large fuel tank versiong fuel tank component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-004000	ZT250-S Flanging Bushing Buffer	8	
2	1274100-007000	ZT250－S Flanging bushing(φ6.4×φ9×6＋φ20×2)	8	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	8	
4	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 component

Remove the four bolts (3) of the left tank cover and remove the bushing (2) and cushion rubber (1).

Pull out the two 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. Then remove the left tank component.

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

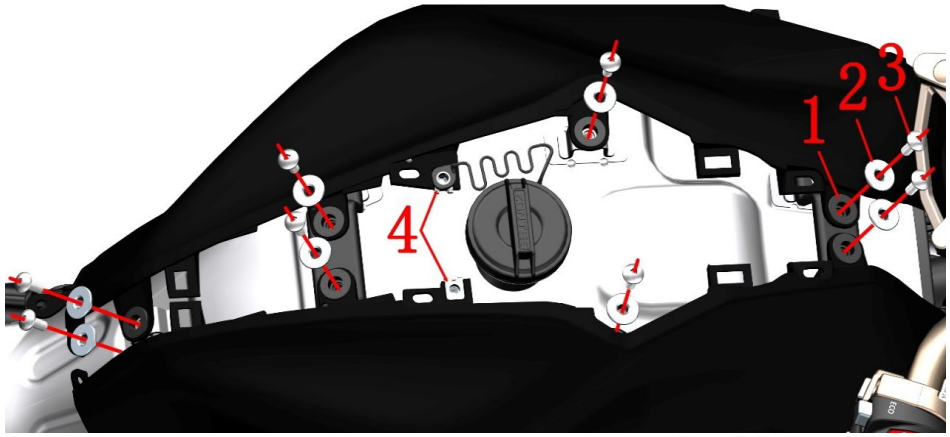
Follow the steps above to remove the right tank component, as well as the splint and side cover round.

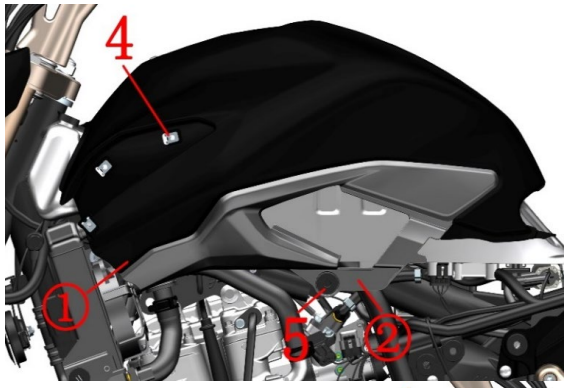
CAUTION:

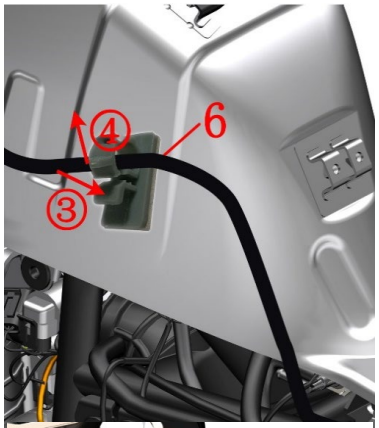
●The left and right side covers, the middle cover component and the seat cushion must be removed in advance.

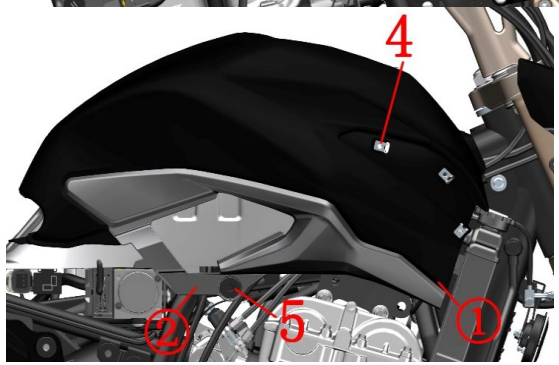
●The material should be protected during the disassembly process to prevent damage to the paint surface.

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









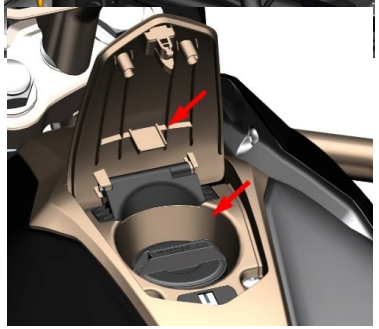


Fig. 7 FUEL TANK COMPONENT		Small fuel tank versiong fuel tank component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-004000	ZT250-S Flanging Bushing Buffer	8	
2	1274100-007000	ZT250－S Flanging bushing(φ6.4×φ9×6＋φ20×2)	8	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	8	
4	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 component

Remove the four bolts (3) of the left tank cover and remove the bushing (2) and cushion rubber (1).

Pull out the two 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. Then remove the left tank component.

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

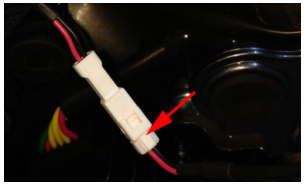
Follow the steps above to remove the right tank component, as well as the splint and side cover round.

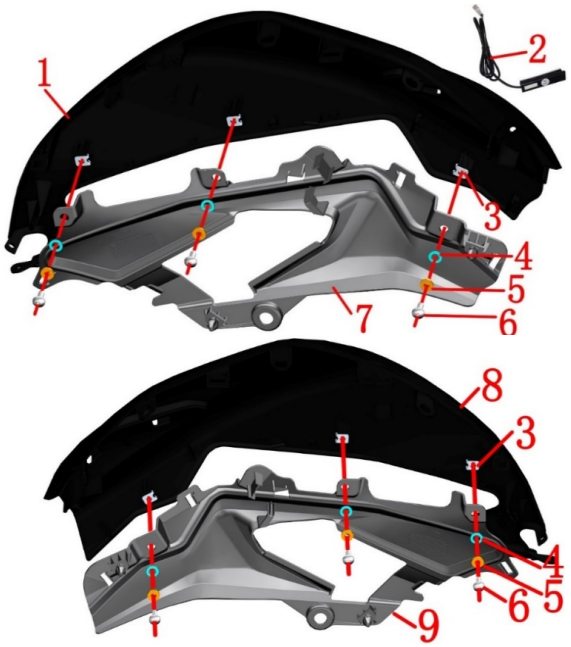
CAUTION:

●The left and right side covers, the middle cover component 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.





CAUTION:

●The material should be protected during the disassembly process to prevent damage to the paint surface. Pay attention to the force when disassembling the staples to prevent damage to the staples.

●The fuel tank cover upper part has been swithched form decal to soft sticker form mid-March 2020 . We suggest buy a "1210342-475000 ZONTES soft sticker" together when changing the old fuel tank cover upper part.

PROCEDURE:

●Fuel tank component

Remove the three bolts (6) on the left tank component and remove the bushing (5) and cushion rubber (4).

Slightly push the snap on the upper part of the left cover (1) to remove the lower part of the left cover (7).

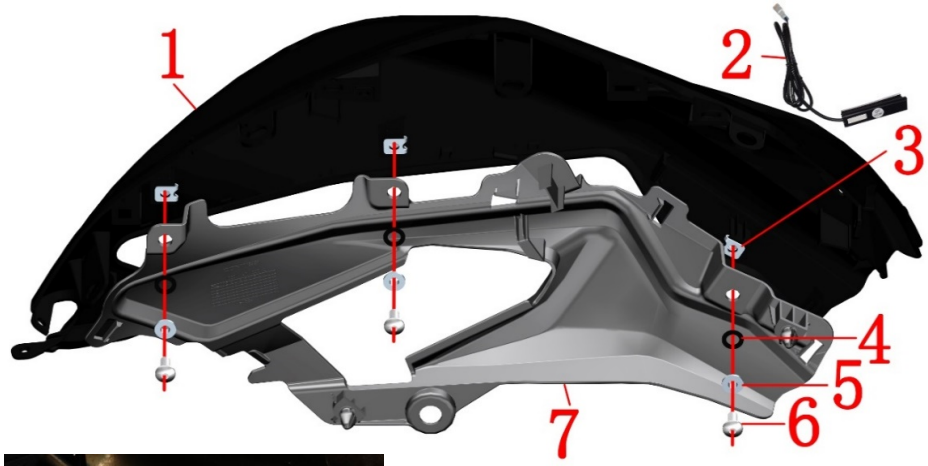
Remove the clamping nut (3) from the upper part (1) of the left cover.

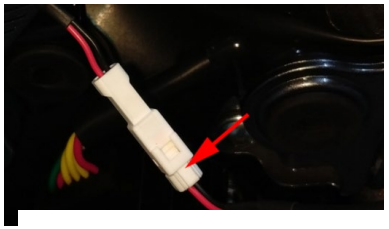
Locate the PKE external antenna (2) cable connector on the left side of the vehicle, and press the limit card to remove it. Remove the PKE external antenna from the upper left side of the tank. After slightly heating with a heat gun, tear off the double-sided tape and clean the residual glue.

Remove the right cover upper part (8) and the right cover lower part (9) as described above.

PKE antenna is Velcro + double-sided adhesive on the upper part of the fuel tank left cover.

Fig. 7 FUEL TANK COMPONENT		Large fuel tank versiong fuel tank component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044201-323021	ZT310-T fuel tank left cover upper part (bright black / applique dark gray / ZONTES)	1	Old Stop selling
	4044201-327051	ZT310-T fuel tank left cover upper part (dark gray / applique dark gray / ZONTES)		
	4044201-465021	ZT310-T fuel tank left cover upper part (bright black/ZONTES Soft sticker)		New Soft sticker
	4044201-463051	ZT310-T fuel tank left cover upper part (dark gray/ZONTES Soft sticker)		
2	1184200-053000	ZT310PKE external single antenna	1	
3	1251300-063093	Splint M6×11×15 (environmental color)	6	
4	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	6	
5	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5	6	
6	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	6	
7	4044201-016051	Fuel tank left cover lower part (dark gray matte)	1	Special black
	4044201-016064	Fuel tank left cover lower part (bright blue)		Bright blue
	4044201-137033	Fuel tank left cover lower part (bright orange)		Bright orange
	4044201-016002	Fuel tank left cover lower part (Pearl white)		
8	4044201-324021	ZT310-T fuel tank right cover upper part (bright black / applique dark gray / ZONTES)	1	Old Stop selling
	4044201-328051	ZT310-T fuel tank right cover upper part (dark gray / applique dark gray / ZONTES)		
	4044201-466021	ZT310-T fuel tank right cover upper part (bright black/ZONTES Soft sticker)		New Soft sticker
	4044201-464051	ZT310-T fuel tank right cover upper part (dark gray/ ZONTES Soft sticker)		
9	4044201-017051	Fuel tank right cover lower part (dark gray matte)	1	Special black
	4044201-017064	Fuel tank right cover lower part (bright blue)		Bright blue
	4044201-138033	Fuel tank right cover lower part (bright orange)		Bright orange
	4044201-017002	Fuel tank right cover lower part (Pearl white)		
10	1210342-475000	ZONTES soft sticker	2	





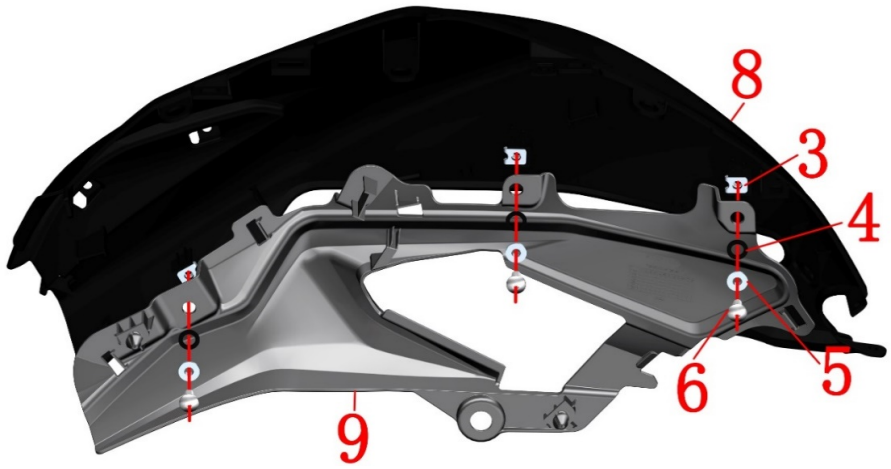


Fig. 9 FUEL TANK COMPONENT		Small fuel tank versiong fuel tank component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044201-146021	ZT310-R fuel tank left cover upper part (bright black / applique dark gray / ZONTES)	1	Special black
	4044201-033051	ZT310-R fuel tank left cover upper part (dark gray)		【1】
2	1184200-053000	ZT310PKE external single antenna	1	
3	1251300-063093	Splint M6×11×15 (environmental color)	6	
4	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	6	
5	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5＋φ14×1.5(color zinc)	6	
6	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	6	
7	4044201-016051	ZT310-R fuel tank left cover lower part (dark gray matte)	1	Special black
	4044201-016064	ZT310-R fuel tank left cover lower part (bright blue)		Bright blue
	4044201-137033	ZT310-R fuel tank left cover lower part (bright orange)		Bright orange
8	4044201-147021	ZT310-R fuel tank right cover upper part (bright black / applique dark gray / ZONTES)	1	Special black
	4044201-034051	ZT310-R fuel tank right cover upper part (dark gray)		【2】
9	4044201-017051	ZT310-R fuel tank right cover lower part (dark gray matte)	1	Special black
	4044201-017064	ZT310-R fuel tank right cover lower part (bright blue)		Bright blue
	4044201-138033	ZT310-R fuel tank right cover lower part (bright orange)		Bright orange

PROCEDURE:

●Fuel tank component

Remove the three bolts (6) on the left tank component and remove the bushing (5) and cushion rubber (4).

Slightly push the snap on the upper part of the left cover (1) to remove the lower part of the left cover (7).

Remove the clamping nut (3) from the upper part (1) of the left cover.

Locate the PKE external antenna (2) cable connector on the left side of the vehicle, and press the limit card to remove it. Remove the PKE external antenna from the upper left side of the tank. After slightly heating with a heat gun, tear off the double-sided tape and clean the residual glue.

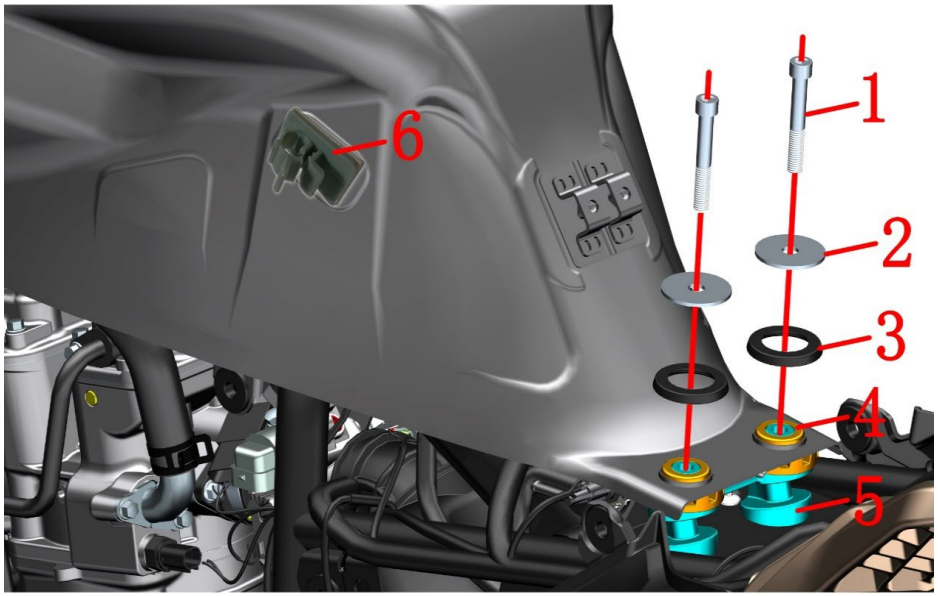
Remove the right cover upper part (8) and the right cover lower part (9) as described above.

CAUTION:

●The material should be protected during the disassembly process to prevent damage to the paint surface. Pay attention to the force when disassembling the staples to prevent damage to the staples.

●[1], [2] are used for dark gray bright blue/bright orange.

●PKE antenna is Velcro + double-sided adhesive on the upper part of the fuel tank left cover.



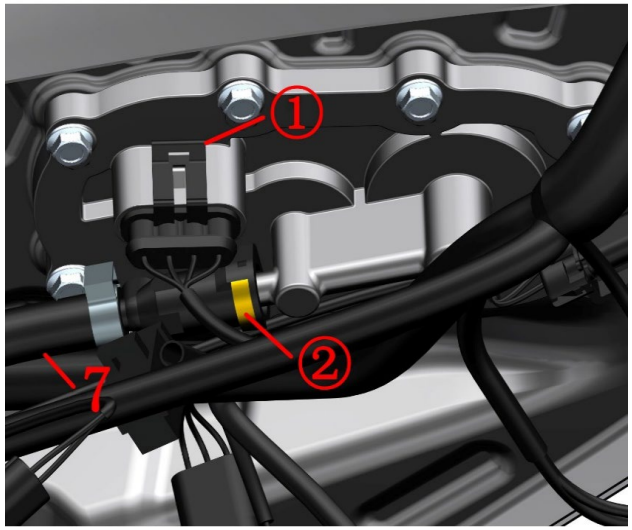


Fig. 10 FUEL TANK COMPONENT		Fuel tank liner component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-043093	GB70.1 M8×55 (environmental color)	2	22～24N.m
2	1251900-028093	ZT250-R fuel tank flat pad φ9×φ37.5×2 (environmental color)	2	
3	1244100-020000	ZT250-S fuel tank pressure	2	
4	1244100-053000	ZT250-S second generation fuel tank gasket	2	
5	1274100-080000	ZT250-R cushion fixing block	1	
6	1224200-066000	ZT310PKE external antenna mount	1	
7	1050954-006000	ZT250-R EFI High Pressure Tubing Sub-assembly	1	
	1050954-035000	ZT310-R Fuel injector high pressure oil pipe unit		

PROCEDURE:

●Tank liner component

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

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

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

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

Locate the limit retaining ring ② on the high-pressure tubing sub-assembly (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 leaks when the high-pressure tubing sub-assembly is pulled out, and the fuel should be prevented from dripping to the outside of the engine or the muffler.

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

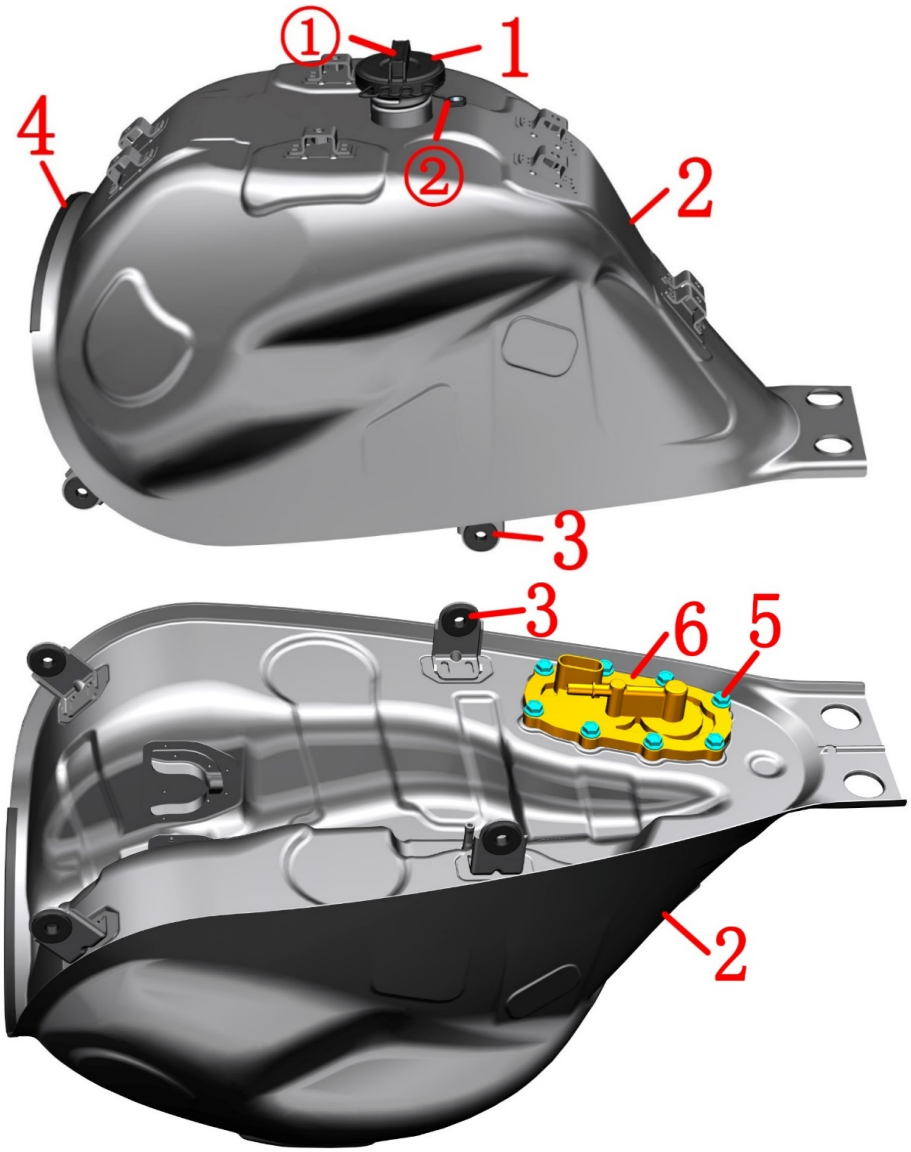


Fig. 11 FUEL TANK COMPONENT		Large fuel tank liner component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-033000	ZT250-S threaded fuel tank cap	1	
2	4034200-009000	ZT310-T fuel tank liner	1	
3	1244100-002000	ZT250-S side cover round glue	4	
4	1240300-021000	HJ125-6 shroud glass strip (1.5m)	0.17	
5	1250105-137093	GB5789M6×16 (environmental color)	8	
6	1050954-018000	T02 built-in fuel pump -300	1	

PROCEDURE:

●Fuel tank cap

Pinch ① by hand to remove the fuel tank cap (1) counterclockwise. Be careful not to pull the nylon cord ② hard.

●Adhesive strip

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

●Side cover round glue

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

●Fuel pump

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

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

CAUTION:

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

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

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

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

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

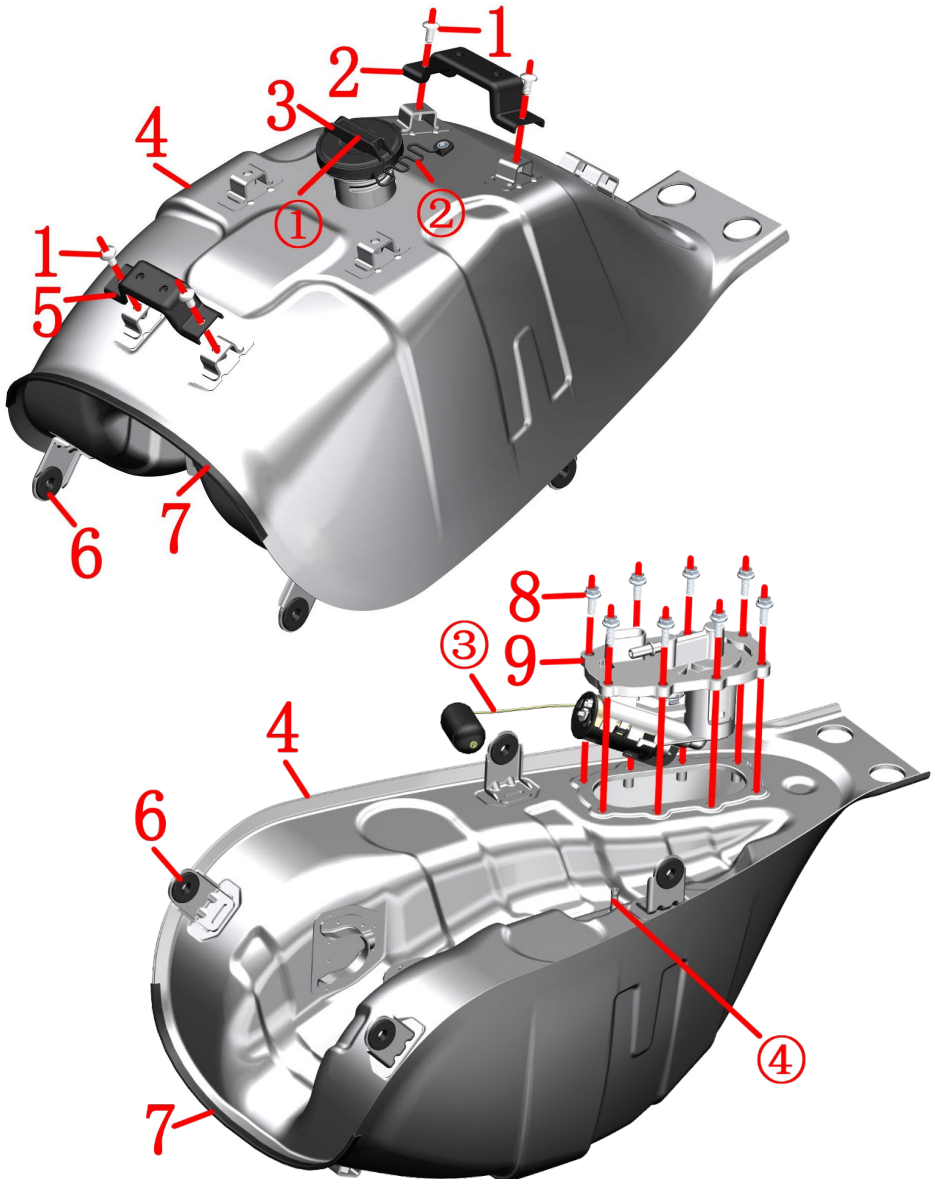


Fig. 12 FUEL TANK COMPONENT		Small fuel tank liner component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
2	1274200-014000	ZT310-R fuel tank cover rear mounting bracket	1	
3	1224100-033000	ZT250-S threaded fuel tank cap	1	
4	4034200-001000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

Pinch ① by hand to remove the fuel tank cap (3) counterclockwise. Be careful not to pull the nylon cord ② 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 component is placed upside down, remove the bolts (8) with a sleeve.

When the fuel pump (9) is removed, the float connecting rod ③ cannot be bent or bent to avoid inaccurate oil display.

CAUTION:

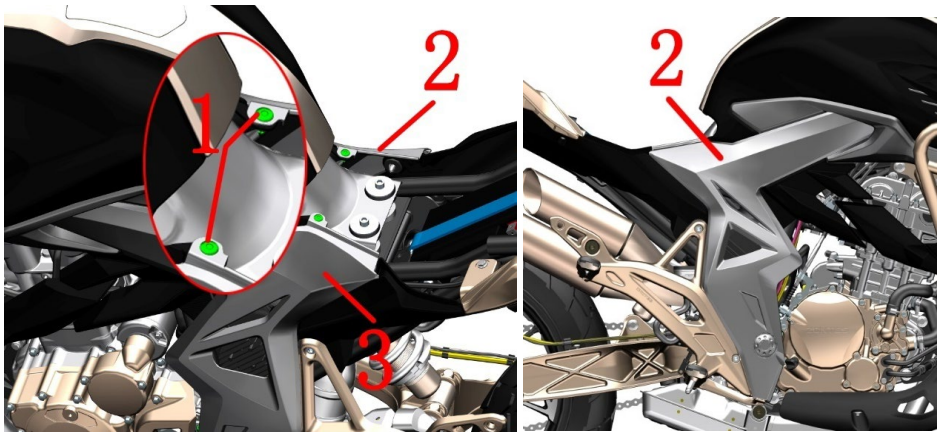
●It is recommended to use the oil pump to pump out the fuel or consume the fuel before disassembling the tank component.

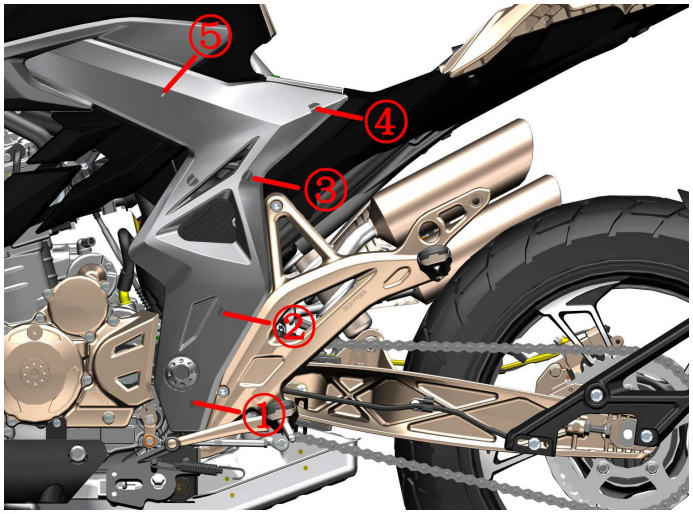
●Fireworks, answering or dialing should be strictly prohibited near the car-breaking site to prevent accidents.

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

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

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





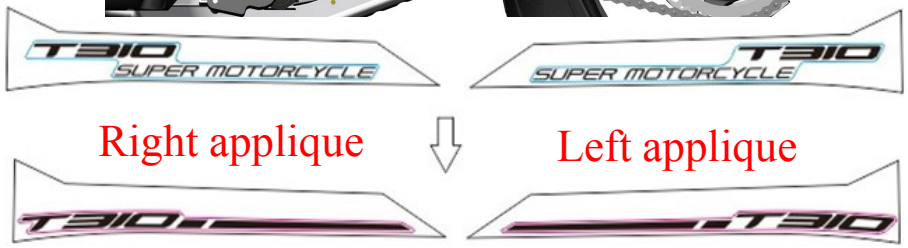


Fig. 1 Side cover component		Side cover component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224100-010000	ZT250-S Expansion nail	2	
2	4044201-149051	Right side cover (Dark gray matte/applique black/T310)	1	【1】
	4044201-142052	Right side cover (dark gray light/applique black/T310)		【2】
	4044201-462051	Right side cover (Dark gray matte/applique stripes/T310)		【3】
	4044201-462052	Right side cover (dark gray light/applique stripes /T310)		【4】
3	4044201-148051	Left side cover (dark gray matte/decal black /T310)	1	【1】
	4044201-141052	Left side cover (dark gray light/applique black/ T310)		【2】
	4044201-461051	Left side cover (Dark gray matte /applique stripes /T310)		【3】
	4044201-461052	Left side cover (dark gray light/applique stripes /T310)		【4】
4	1210342-034000	ZT310-R left side cover applique (black/T310)	1	Stop selling
5	1210342-472000	ZT310-R left side cover applique(black/stripes/T310)		New
6	1210342-035000	ZT310-R right side cover applique(black/T310)	1	Stop selling
7	1210342-471000	ZT310-R right side overapplique(black/stripes/T310）		New

PROCEDURE:

●Side cover component

Press the middle part of expansion nail with Small Phillips screwdriver(As shown in left Fig. C), then remove the expansion nail (1).

Pull out staples by stretching your hand into the gap, first pull out the staples at ①-②-③.

One hand stretch the upper part of side cover and the other hand stretch the front part of tail dress, pull out with force the staple on the ④ of the side cover.

One hand press the position of ⑤, the other hand stretch the back of the side cover and at the same time pull back hard, then take off the side cover from the oil tank decorative cover.

CAUTION:

●When is installed, first insert the plugs on the head of side cover, fasten the staple on the position of ⑤, then install the staples from ④ to ① in turn, at last, install the expansions.

●The side cover already contains applique.【1】&【2】 old applique side cover will stop selling ,and it's recommended to buy a new stripes applique or a side cover【3】or【4】when replacing the side cover.【1】&【3】for Special black vehicle;【2】&【4】for bright blue or bright orange vehicle.

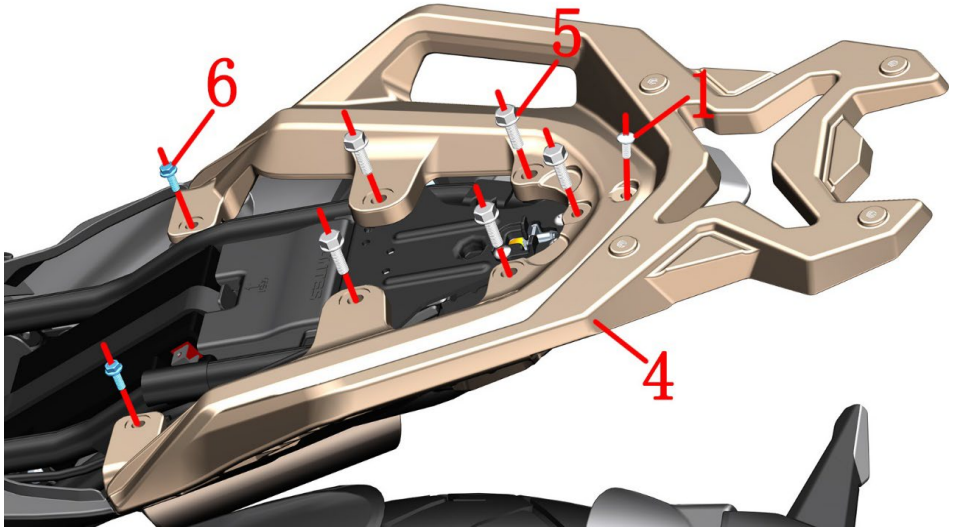


Fig.1 REAR COVER COMPONENT		Rear rack	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16 (stainless steel)	5	
2	1274100-057095	Flange bushing φ6.2×φ8.4×3.5＋φ14×1.5	4	
3	1244100-052000	Flange bushing buffer rubber（φ8.5×φ14×1）	4	
4	1274200-103000	ZT310－T Rear Aluminum alloy rack	1	
5	1251100-123093	Non-standard bolt M8×25 (environmental color)	5	
6	1250105-137093	GB5789M6×16(environmental color)	2	

PROCEDURE:

●REAR RACK

Remove 4 units bolts (4) on the bottom and take off bushing (2) and bushing buffer rubber (3).

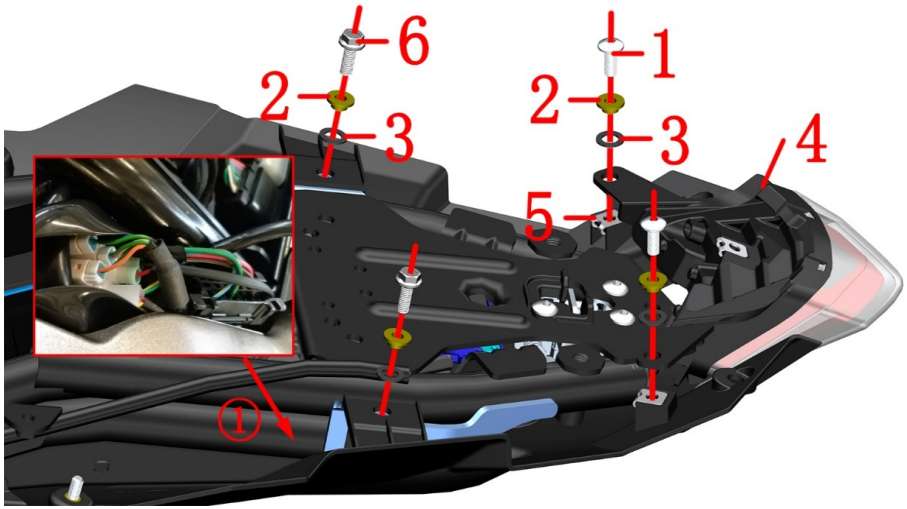
Remove bolt (1)；5 units bolts (5) and 2 units bolts (6).

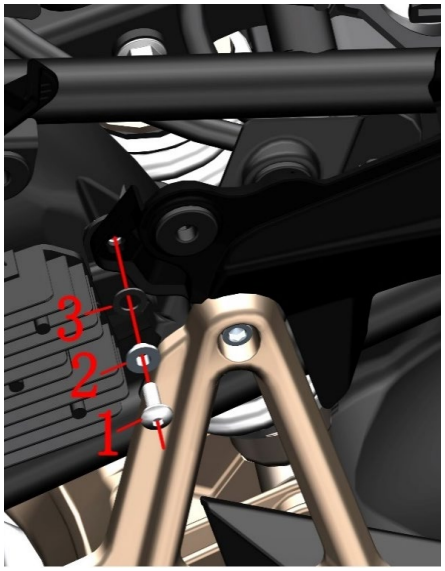
Remove rear rack(4).

CAUTION：

●Remove the side cover and cushion in advance.

●Protect the parts from damage during the process of disassembly.





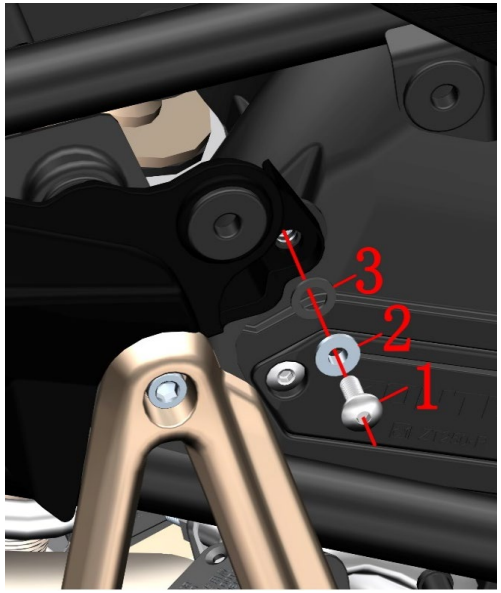


Fig. 2 REAR COVER COMPONENT		Rear cover component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard boltM6×16(304 stainless steel)	4	
2	1274100-057095	Flange bushing φ6.2×φ8.4×3.5＋φ14×1.5	6	
3	1244100-052000	Flange bushing buffer rubber（φ8.5×φ14×1）	6	
4	1174200-023000	ZT310－T taillight	1	
5	1251300-063093	Plywood M6×11×15(environmental color)	3	
6	1250105-137093	GB5789M6×16(environmental color)	2	

PROCEDURE:

●Taillight

Take off all the connectors at the location①,do not touch the cables.

Remove the 2 bolts (1) on the taillight (4)，Take out bushing (2) and buffer rubber (3). Take off taillight.

Remove taillight and 3 pieces of plywood (5) on the rear cover； Take out bushing (2) and buffer rubber (3).

●Rear cover component

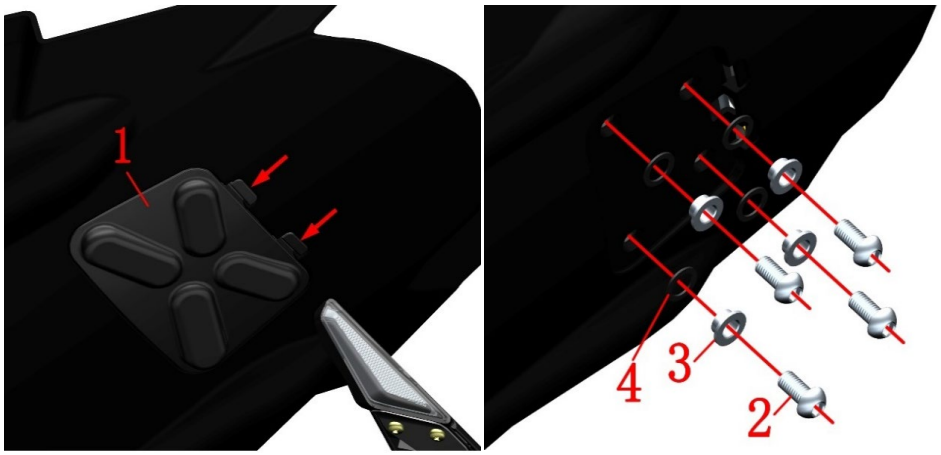
Remove the bolts⑹at both sides;Take out bushing (2) and buffer rubber (3).

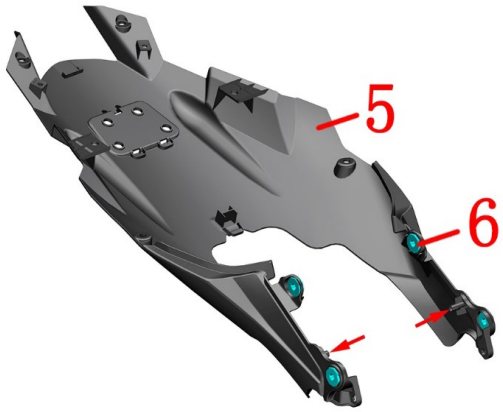
Remove the bolts (1) at front both sides of rear cover;Take out bushing (2)and buffer rubber (3).

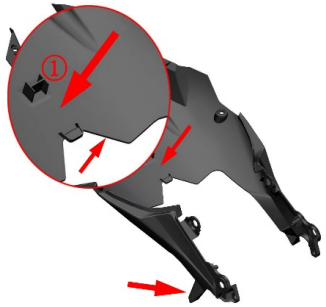
CAUTION：

●Remove side cove and cushion in advance.

●Protect the parts from damage during the process of disassembly.







310T rear cover

Colloid battery

Lithium battery

350T rear cover

Fig. 3 REAR COVER COMPONENT		Rear cover component 2	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	4044201-108021	ZT310－T fender cap of rear cover（black）	1	black
	4044201-108052	ZT310－T fender cap of rear cover（gray）		blue/orange
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	4044201-107021	ZT310－T rear cover（black）	1	【1】
	4044201-107052	ZT310－T rear cover（gray）		【2】
	4044302-048021	ZT350－T rear cover（black）		【3】
	4044302-050052	ZT350－T rear cover（gray）		【4】
6	1244100-002000	ZT250－S sive cover round rubber	4	
7	4044201-562000	ZT310-T rear cover after-sales kit (lithium battery)	1	After-sales part

PROCEDURE:

●Rear cover mudguard mounting cover.

Push the buckle① on the mounting cover (1) as per the direction of arrow in Fig.1 and remove it.

●Rear cover

Hold rear cover (5),remove bolt (2),bushing (3),bushing buffer rubber (4).

One person keeps holding the rear cover (5)，another person takes out the buckle slightly as per the direction of arrow on the front of rear cover,then take off the rear cover from the rear rack.

Take off the 4 side round rubbers (6) from rear cover (5).

Note that lithium batteries and colloid batteries correspond to the rear tail skirt is not universal need to pay attention to distinguish clearly. The bottom snap and the process boss spacing or the shape around the buckle can be observed to distinguish; The colloid battery version is very close lying and has a large arc transition around it.

CAUTIONS：

●Remove side covers,cushion,rear rack in advance.

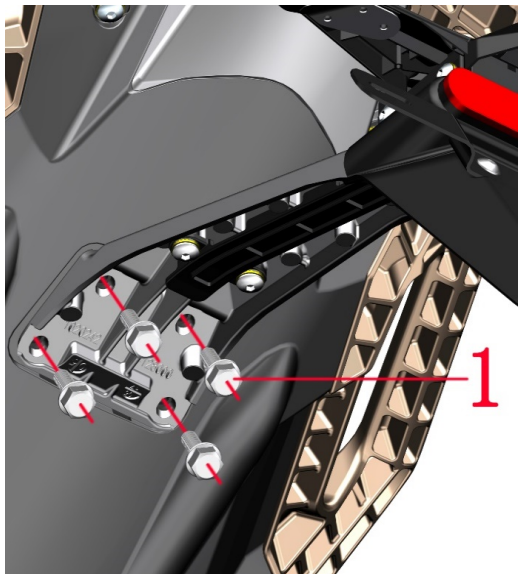
●Protect the parts from damage during the process of disassembly.

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

●If need to change a new rear cover,you should pay attention to the lug boss at the position ① and check if it is being cut down.If not, please cut it down short by yourself.

●【1】、【2】 for lithium battery version of the vehicle (Discontinued), 【3】、【4】for the colloid battery version of the vehicle. Bright black-tailed skirts are used for bright black vehicles and dark gray-tailed skirts are used for bright blue/bright orange vehicles.

●Lithium battery model users need to purchase the ZT310-T rear cover after-sales kit (lithium battery model) together with the rear cover after purchasing the new state.



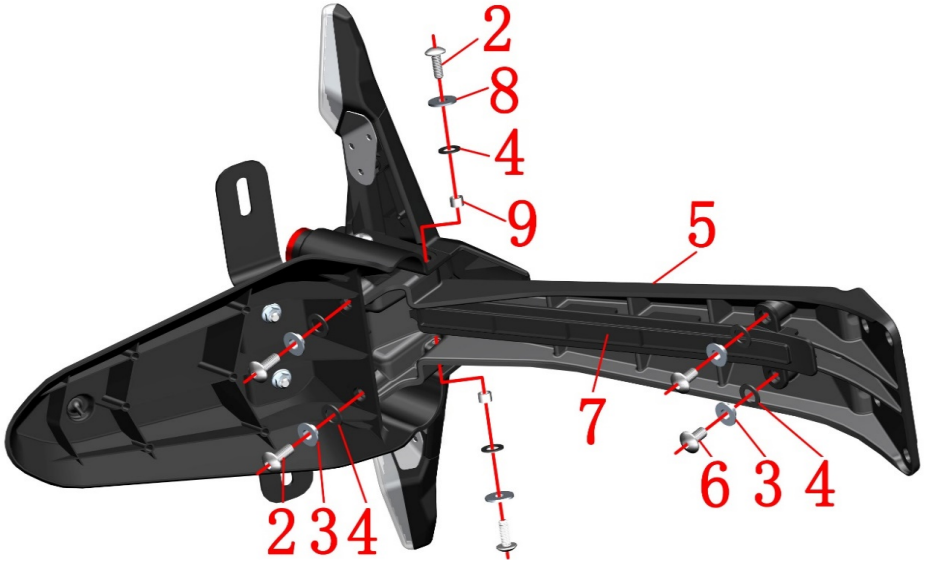


Fig. 4 REAR COVER COMPONENT		Rear mud board assembly 1	CHK ADH	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-123093	Non-standard bolt M8×25(environmental color)	4	
2	1251100-102000	Non-standard bolt M6×116 (304 stainless steel)	4	
3	1274100-057095	Flanging bush φ6.2×φ8.4×3.5＋φ14×1.5	4	
4	1244100-052000	Flanging bushing cushion rubber (φ8.5×φ14×1)	4	
5	4024200-071051	ZT310-X rear fender bracket (matte dark gray)	1	
6	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
7	1224200-033000	ZT310-X rear mud plate bracket cover	1	
8	1250502-010093	GB96.1φ6（environmental color）	2	
9	1274100-018000	ZT250－S Muffler anti-hot plate bushing	2	

PROCEDURE：

●Rear mud board assembly

Locate the cable connector on the rear mud plate assembly and unplug it. The color is three joints of green + orange, green + blue, green + powder.

Remove the 4 bolts(1)and remove the rear mud plate assembly. During the removal process, be careful not to pull the cable forcibly.

Remove the 2 bolts(6) and remove the bushing(3) and cushion rubber(4). Remove the bracket cover(7).

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

CAUTION：

●The seat cushion needs to be removed in advance.

●The removal process cannot forcibly pull the cable.

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

●The lamp cover needs to be protected.

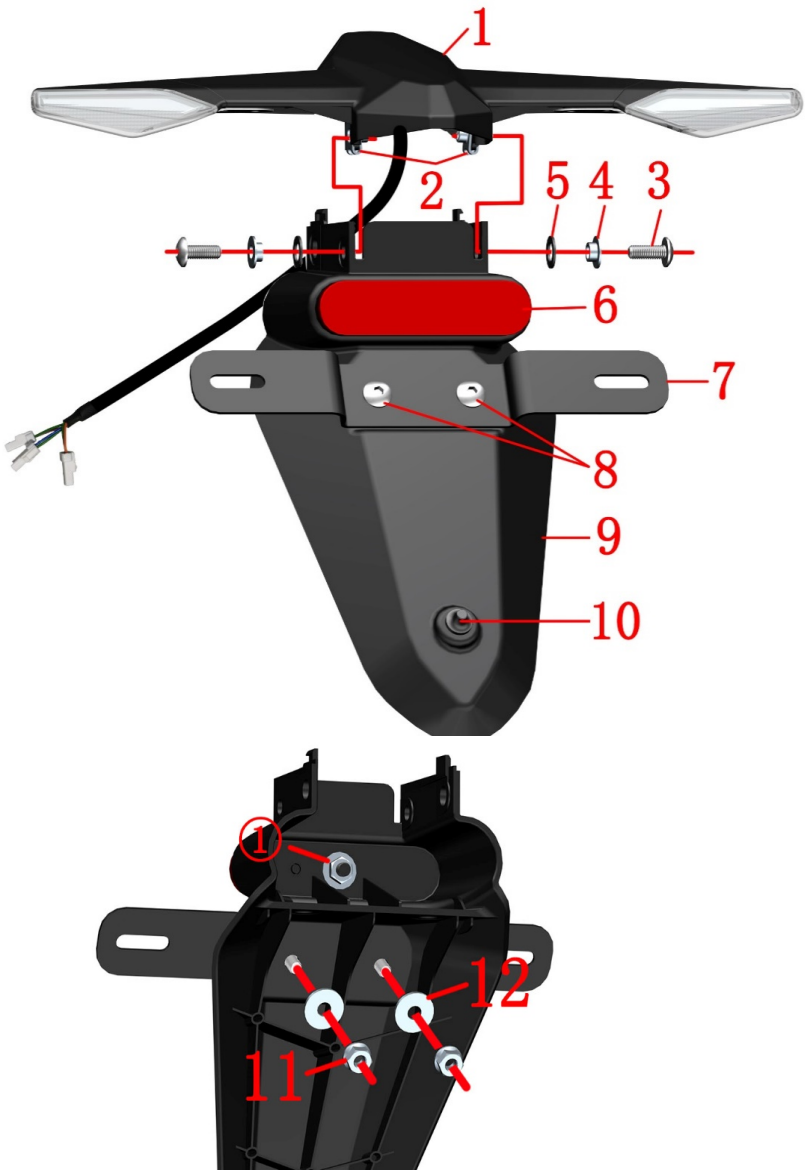


Fig. 5 REAR COVER COMPONENT		Rear mud board assembly 2	CHK ADH	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1174200-035000	ZT310 rear turn signal (including license plate light)	1	
2	1251300-063093	Splint M6×11×15 (environmental color)	2	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
4	1274100-057095	Flanging bushing φ6.2×φ8.4×3.5+φ14×1.5	2	
5	1244100-052000	Cuff bushing cushioning rubber (φ8.5×φ14×1)	2	
6	1174100-002000	ZT250-S rear reflector	1	
7	1270300-039000	HJ125-6 rear license plate bracket	1	
8	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	2	
9	1224200-032000	ZT310-X rear mud board	1	
10	1244100-006000	ZT250-S rear license plate cushioning rubber	1	
11	1250303-010093	GB6177.1M6 (environmental color)	2	
12	1250503-021093	GB97.1φ8 (environmental color)	2	

PROCEDURE：

● Rear turn signal

Remove the 2 bolts (3) and remove the bushing (4) and cushion rubber(5). Remove the rear turn signal(1). If you remove the cable during the removal process, you cannot force the cable.

Remove the splint (2) from the rear turn signal(1).

●Back license bracket

Secure the head of the bolt (8) with a hexagon socket tool and remove the nut(11) with a sleeve on the back of the rear mud plate. Remove the bolt(18) and the license plate bracket(7).

●Back reflector

Remove the nut 1 from the rear reflector(6) with a sleeve and remove the rear reflector.

●Back license cushion rubber

Remove the rear license plate cushion rubber(11) from the rear mud plate(9).

CAUTION：

●The removal process cannot forcibly pull the cable.

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

●The lamp cover needs to be protected.

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

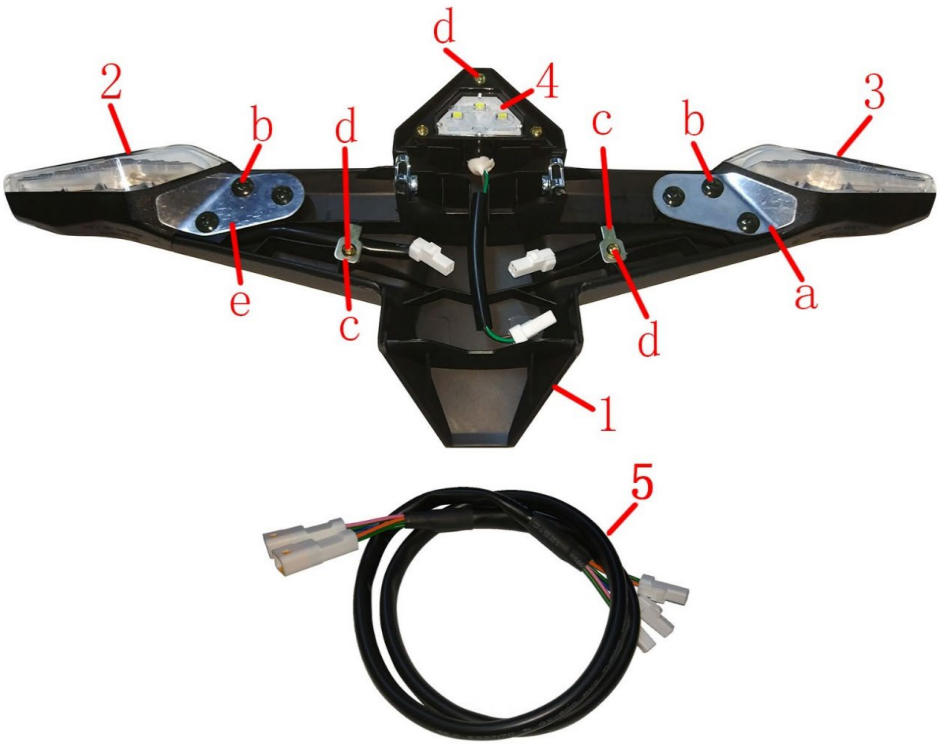


Fig. 6 REAR COVER COMPONENT		Rear turn signal after sale parts	CHK ADH	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-120000	ZT310 rear turn signal bracket	1	
2	1174200-019000	ZT310-X rear left turn signal	1	
3	1174200-020000	Right turn signal after ZT310-X	1	
4	1174200-021000	ZT310-X license plate light	1	
5	1184200-032000	ZT310-R rear turn signal cable (L=600)	1	

PROCEDURE：

●Back license plate light

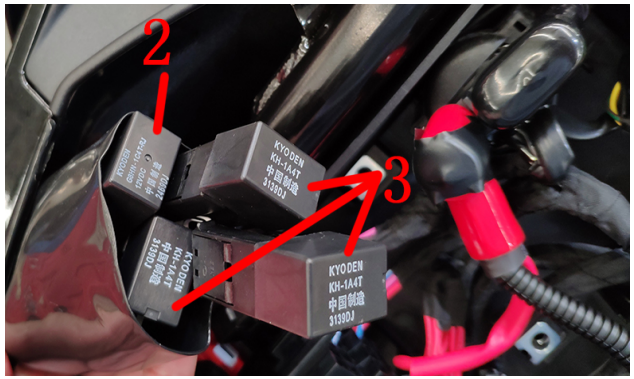
After grasping the turn signal bracket (1), remove the three screws d on the rear license plate light(4)and remove it.

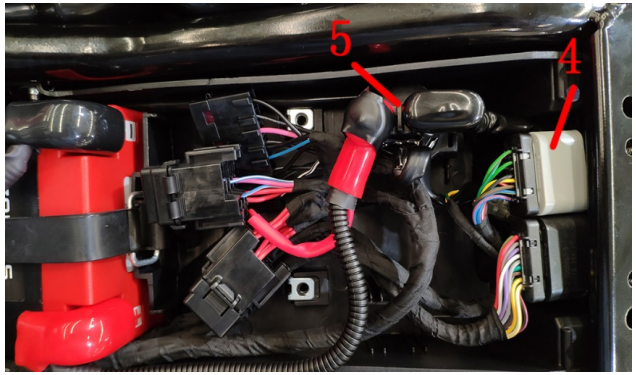
●Rear turn signal

Remove the 3 screws b and 1 screw d on the left side of the above figure, remove the left pressure plate e and the crimping plate c, and remove the left turn signal (2); similarly, the 3 screws on the right side of the figure above remove the right pressing line. After the plate a and the crimping plate c, the right turn signal(3) is removed.

CAUTION：

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





TFT Instrument

Fig 7 REAR COVER COMPONENT		Electrical component box component (TFT Instrument)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-086000	ZT310－T Electrical device box cover	1	
2	1184200-024000	ZT310－R Side bracket relay	1	G8HN-1C4T-RJ
3	1184100-017000	ZT250－S EFI relay	3	KH-1A4T
4	1050954-019000	MT05.2 Engine Controller - Model ZT310-RC4	1	
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 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）

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

●Fuse box

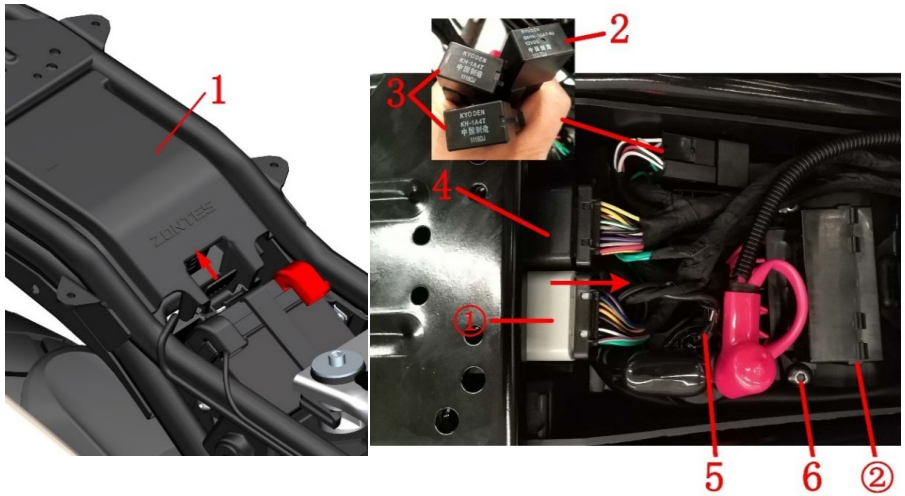
Three pcs fuse box cover with corresponding instructions.

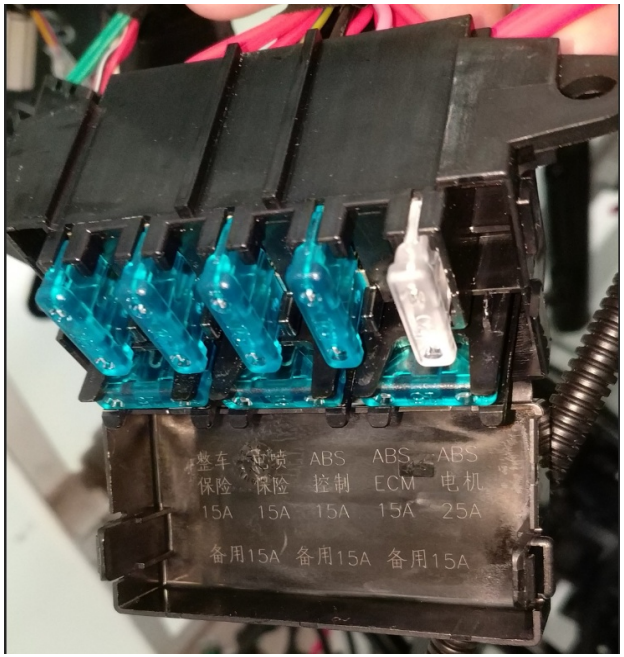
●PKE buzzer

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

CAUTION:

●Do not pull the cable directly.





Electrical Instrument

Fig 8 REAR COVER COMPONENT		Electrical component box component (electrical Instrument)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1224200-086000	ZT310－T Electrical device box cover	1	
2	1184200-024000	ZT310－R Side bracket relay	1	G8HN-1C4T-RJ
3	1184100-017000	ZT250－S EFI relay	2	KH-1A4T
4	1050954-019000	MT05.2 Engine Controller - Model ZT310-RC4	1	
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 Control Unit（ECU）

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

●Fuse box

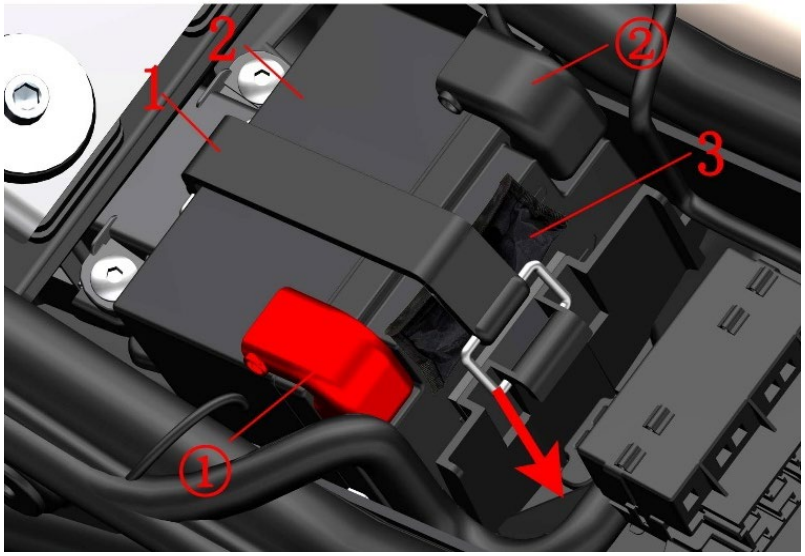
Remove the two bolts (6) and pull the fuse box and cables together, and then pinch the two ends of the fuse box ② and open the lid to replace the fuse. There is a corresponding description on the fuse box cover.

●PKE buzzer

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

CAUTION:

●Do not pull the cable directly.



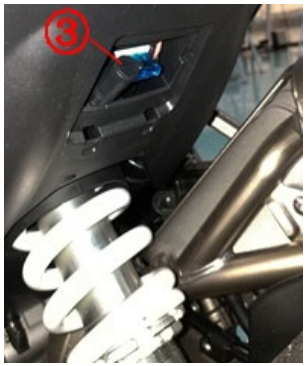


Fig. 9 REAR COVE COMPONENT		Battery component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1244100-072000	ZT250－R Battery straps	1	
2	1184100-116000	ZT250 Lithium battery	1	
3	1274200-078000	ZT310－R Vehicle tool	1	
4	1184200-038044	ZT310 Lithium battery charger	1	

PROCEDURE:

●Battery straps, vehicle tools

Pull the metal snap ring of the battery strap (1) in the direction of the arrow, press it down, remove it, and remove the on-board tool (3).

●Battery

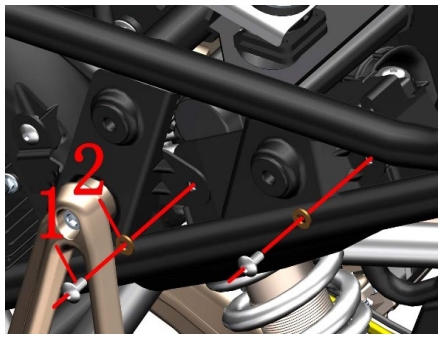
Unscrew the black protective cap ② to remove the negative pole； then remove the red protective cap ① and remove the positive pole； remove the battery. For reinstallation, connect the positive electrode first, then connect， the negative electrode. No parallel battery charging or ignition.Just use the battery charger"ZONTES" provide for you.PKE insurance must be removed before charging; the bracelet version cannot be unplugged. The bracelet version of the PKE assembly integrates a charging interface, and some models may also have a charging interface for the main harness.

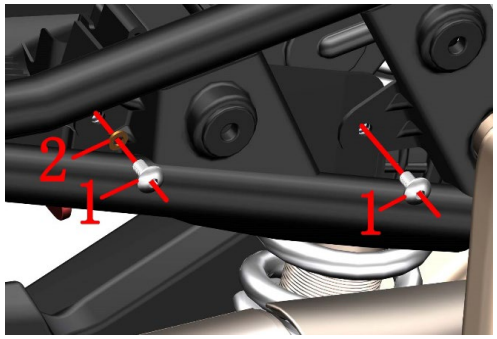
CAUTION:

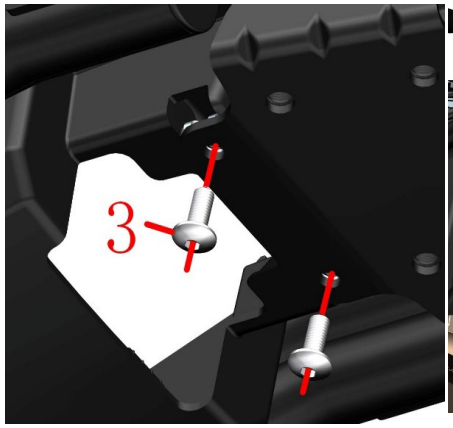
●Pull the plugs ①、② out of the cable.

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

●If the battery has reached the end of its useful life, it should be handed over to a qualified organization or a dedicated recycling center for proper disposal. it is forbidden to discard it.







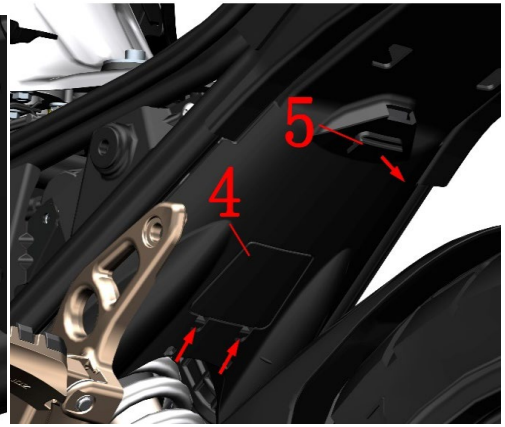


Fig. 10 REAR COVER COMPONENT		Electrical device box component 1	CHK ADH	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	4	
2	1251513-001019	6.3 x 12 x 1.6 copper gasket	3	
3	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	2	
4	1224200-040000	ZT310 Electrical device box cover	1	
5	1244200-047000	ZT310-X Electric device box back glue	1	

PROCEDURE:

●Electrical device box component

Remove the bolts(1) on the left side of the front of the electrical component box Remove the two gaskets (2).

Remove the bolts(1) on the right side of the front of the electrical component box and remove gasket(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 (3).

Pull down the electrical device box backing (5) in the direction of the arrow.

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.

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.

●The number of copper gaskets (2). for some vehicles produced in the early stage sats is 8 pcs, and the production is now 3 pcs.

Fig.11 REAR COVER COMPONENT		Electrical device box component 2	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 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.

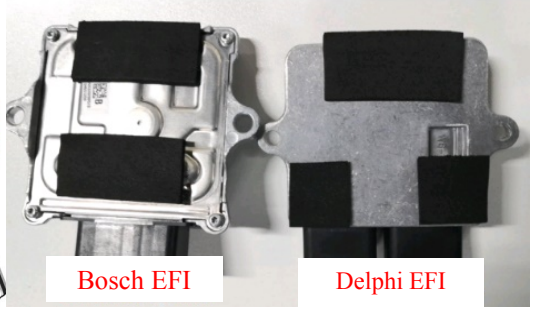
●PKE cables need to be protected. Non-professionals are strictly prohibited from dismantling the PKE system components, as this may cause permanent damage.

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

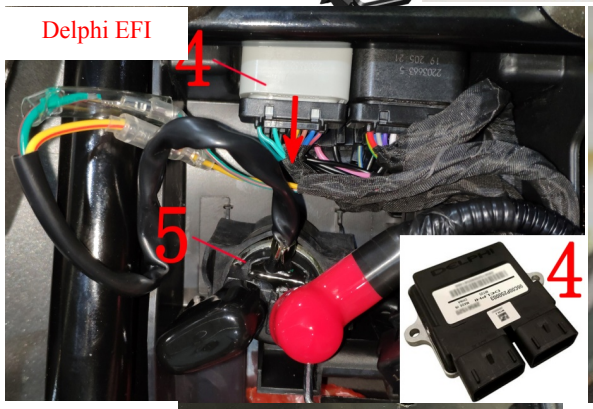
●PKE key shell（containing key glue+key ring） just for after-sale to change the shell,no internal electrical appliances.

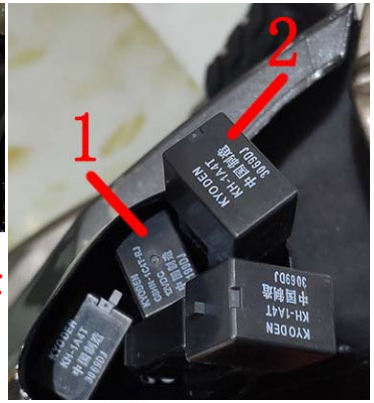
●The single antenna PKE controller has been stop selling, it can be replaced by bracelet edition.

● The button battery model used for the single antenna version is: CR2450; the bracelet version is: CR1225.



Delphi EFI





Bosch EFI

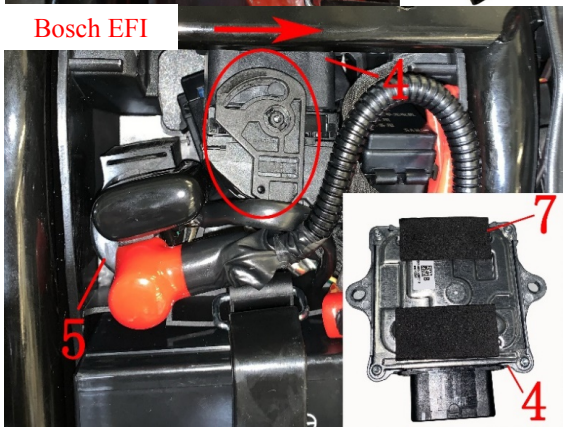


Fig. 12 REAR COVER COMPONENT		Electrical component (colloid battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1184200-024000	ZT310－R Side bracket relay	1	G8HN-1C4T-RJ
2	1184100-017000	ZT250－S EFI relay	3	KH-1A4T
3	1224200-175000	ZT310-T colloid battery electric device box upper cover	1	
4	1050954-019000	MT05.2 Engine Controller - Model ZT310-RC4	1	Delphi
	1050954-037000	MSE6.0 Controller-ZT180MN (Euro 5)		Bosch
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

Pull up the cable and unplug the side stand relay (1) and the EFI relay (2).Open the top cover of ZT310-T gel battery box(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）

Hold the ECU (4) connector in the direction of the arrow and separate the 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:

●Do not pull the cable directly.

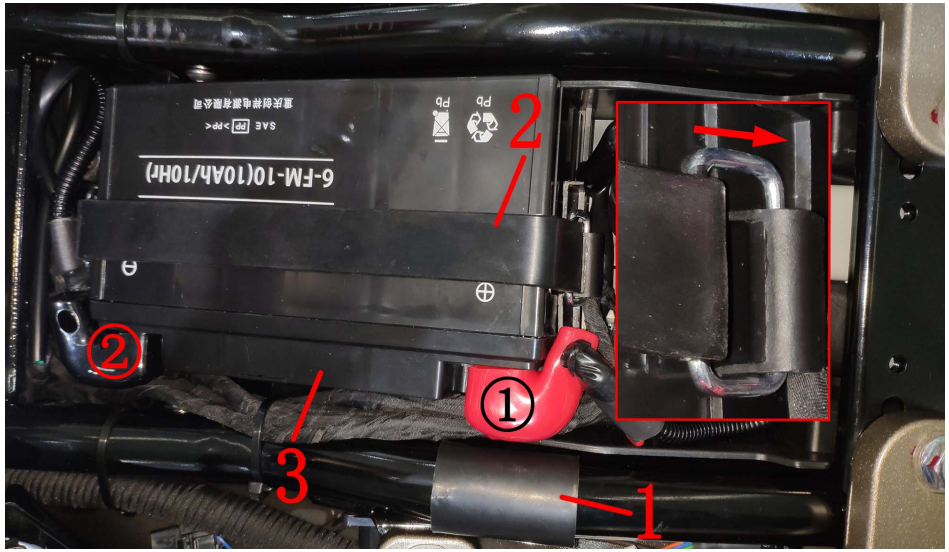


Fig. 13 REAR COVER COMPONENT		Battery component (colloid battery)	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1240100-023000	battery anode protection glue	1	
2	1244200-111000	ZT310 gel battery strap	1	
3	1184200-099000	ZT310 colloid battery (6-FM-10/10Ah)	1	
4	1184200-163000	ZT310 Lead Acid Battery Charger (European Standard)	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:

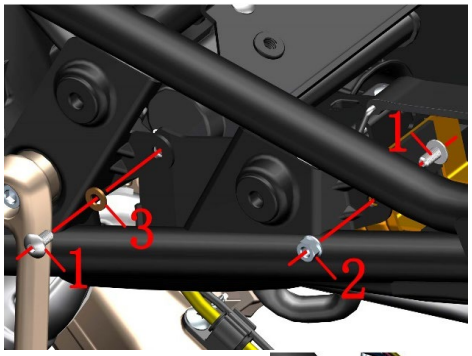
●Be careful not to overcharge the charging time. About the use and maintenance of the battery see the instructions.

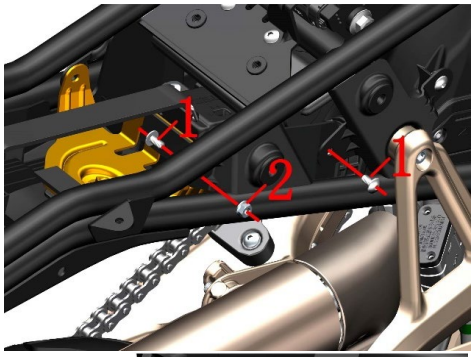
●Attention should be paid to the discomponent process to avoid damaging the material. Attention must be paid to the installation sequence when removing the battery.

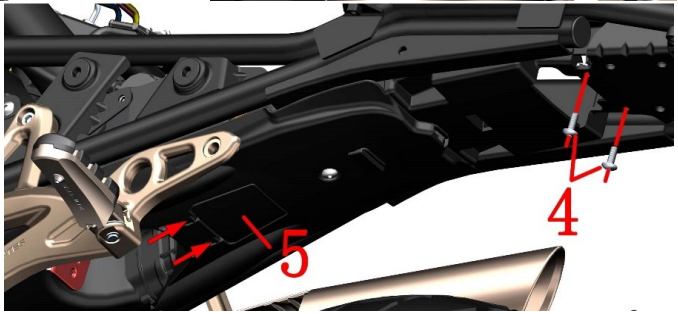
●The battery voltage should be checked regularly. If it is lower than 12.8V, it is recommended to charge it in time; it must not be overcharged; it should be taken out of storage for a long time without being used, and it should be charged once a month.

●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.







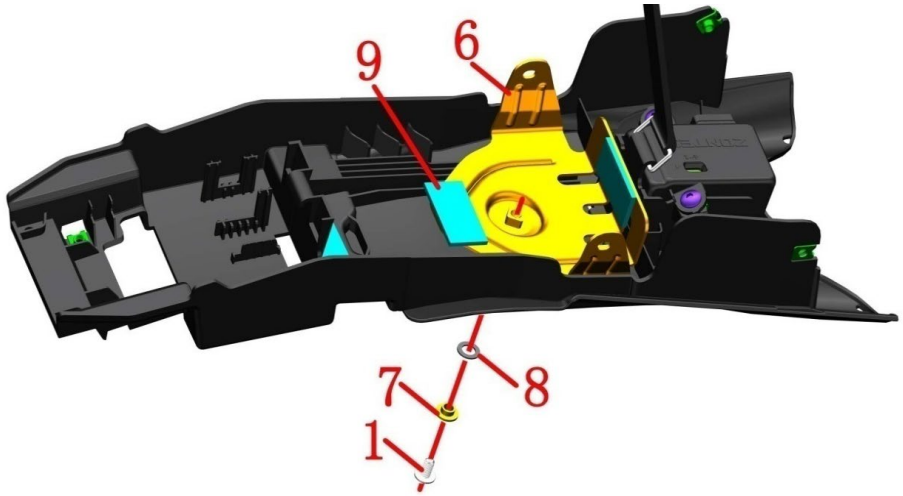


Fig. 14 REAR COVER COMPONENT		Electrical device box component 1 (colloid battery)	CHK ADH	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-101000	Non-standard bolt M6×12 (304 stainless steel)	5	
2	1250303-010093	GB6177.1M6 (environmental color zinc)	2	
3	1251513-001019	6.3 x 12 x 1.6 copper gasket	1	
4	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.

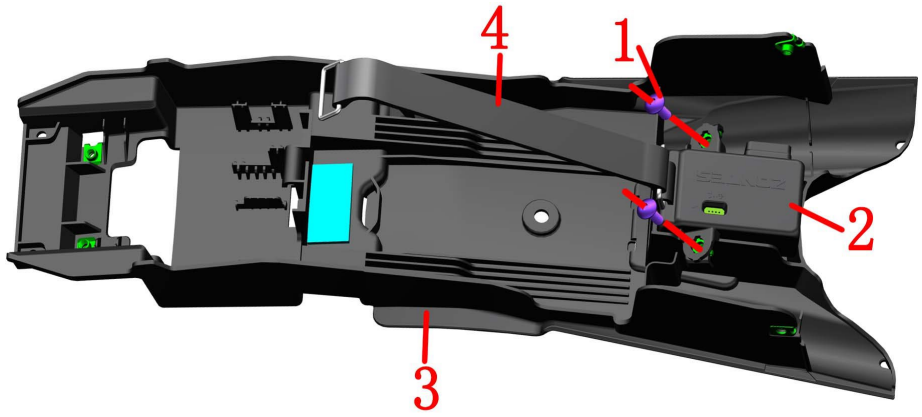
CAUTION:

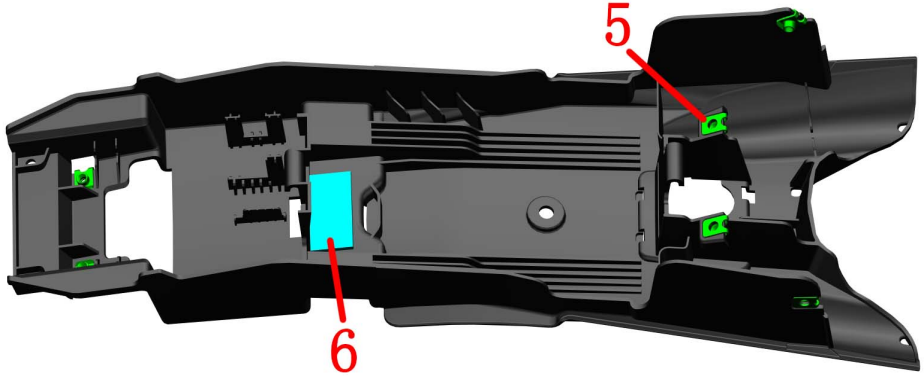
●Do not pull the cable directly when unplugging it.

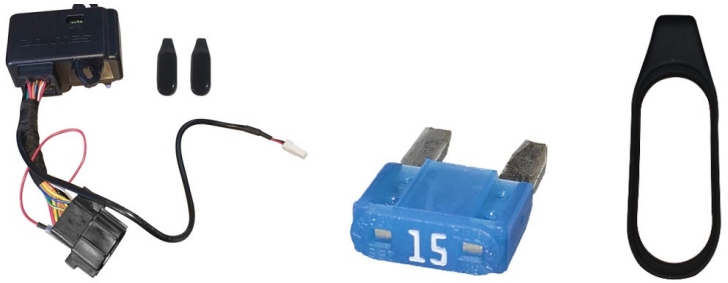
●If you need to replace the PKE fuse, you can replace it by directly removing the lower cover of the electrical device box.

●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

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Fig. 15 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	1224200-162000	ZT310 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.

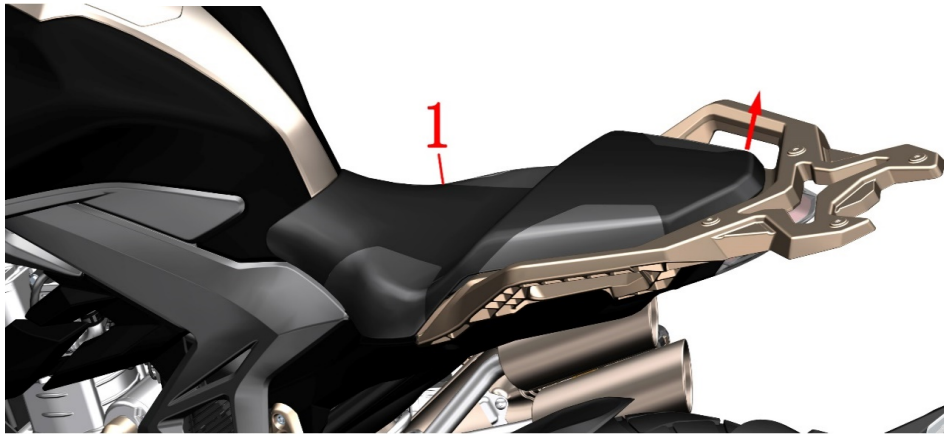
CAUTION:

●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.



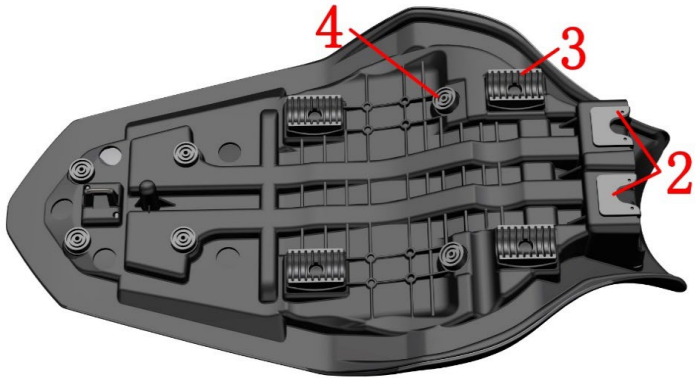


Fig.1 CUSHION COMPONENT		Cushion component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1200100-462000	ZT310－T cushion(2021 model)	1	one set
2	1244100-024000	ZT250－S Cushion front rubber	2	only for after-sale service
3	1244100-022000	ZT250－S Cushion rubber	4	
4	1244100-025000	ZT250－S Cushion round rubber	6	

PROCEDURE:

●Remove seat cushion

Press the unlock button" ", 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 assessory

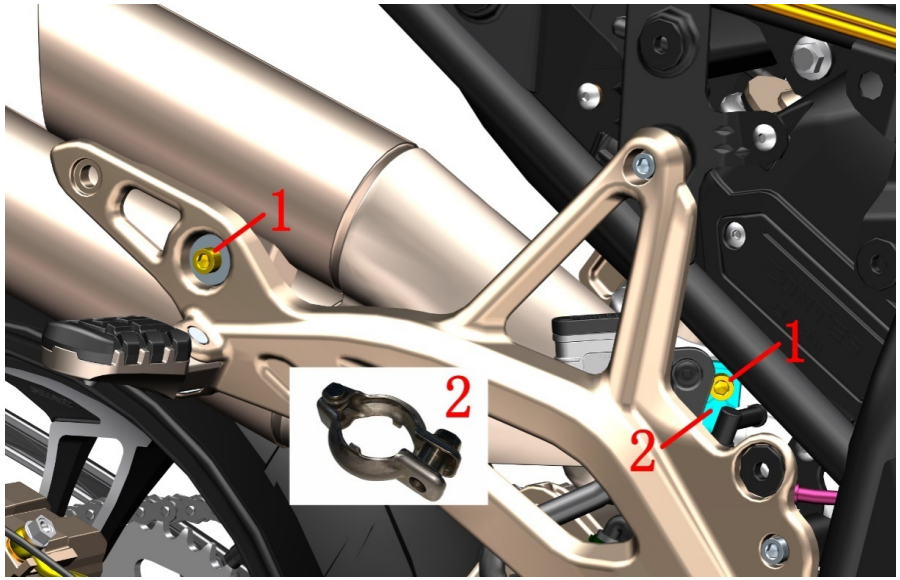
The corresponding installation position is shown in the lower left Figure.

CAUTION:

●The motorcycle should be fixed before operation.

●Cushion contains all cushion rubber and locks, bolts.

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



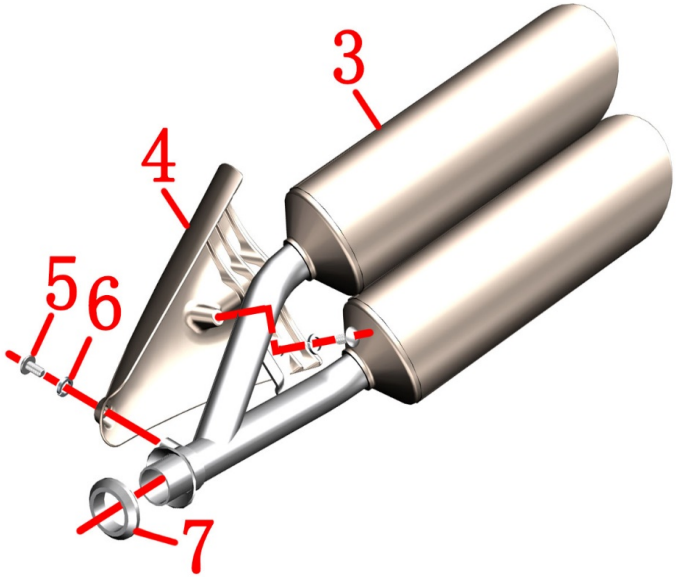


Fig.1 Muffler component		Muffler rear component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1250205-023000	GB70.1 inner hexagonal M8X35 (color Zinc)	2	
2	1274100-074000	ZT310-R Muffler clamp	1	
3	4024200-003035	ZT310-R Titanium rear muffler	1	
	4084200-001051	ZT310-R dark gray rear muffler		
4	4024200-004035	ZT310-R Titanium anti-hot board	1	
	4084200-002051	ZT310-R dark gray anti-scalding board		
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 gasket（37.8×25×10）	1	

PROCEDURE：

●Remove the rear component of muffler

Hold the muffler rear component with one hand, then use the hexagon tool to remove the bolt (1) from the gap between the frame tube and the pedal bracket. Remove the clamp (2).

Remove the bolt (1) of pedal bracket and remove the rear component of muffler.

Remove the bolt (5) and then remove the spring washer.

Remove the anti-hot board (4) from rear muffler (3).

●Graphite gasket

Remove the graphite gasket (7) and protect this nozzle.If there is any deformation it may lead to air leakage.

CAUTION:

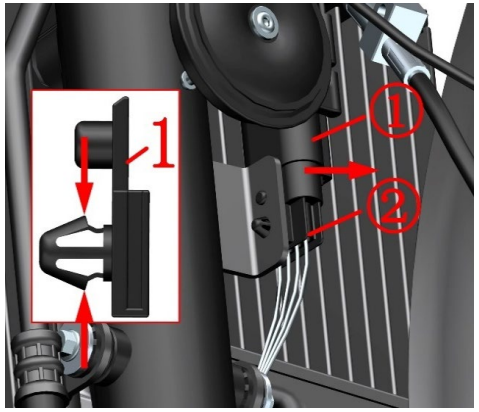
●The material need to be protected during the disassembly process to prevent damage of the paint surface.

●The muffler should be completely cooled before it is disassembled.

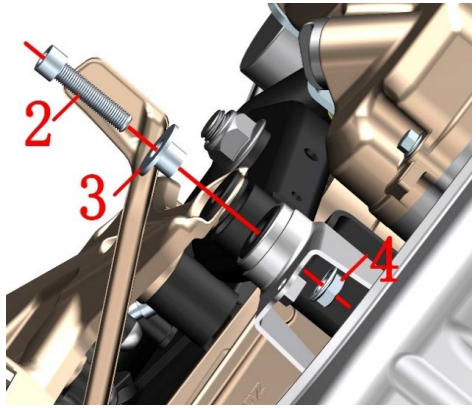
●Prevent other matter from entering the interior of muffler.

●The muffler nozzle needs to be protected.If there is any deformation, it may lead to air leakage.

●It is recommended that a new gasket should be replaced each time during the front component of muffler removing so as to prevent air leakage.



A



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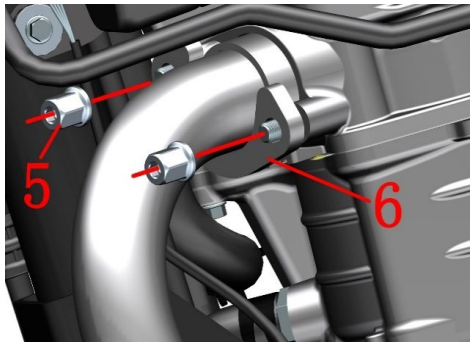

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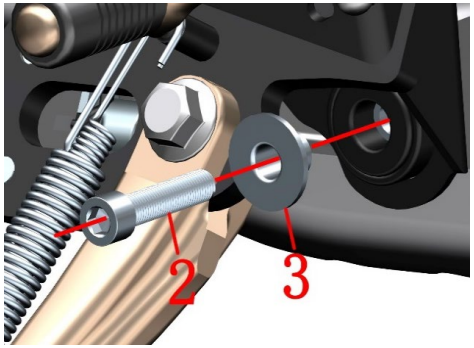

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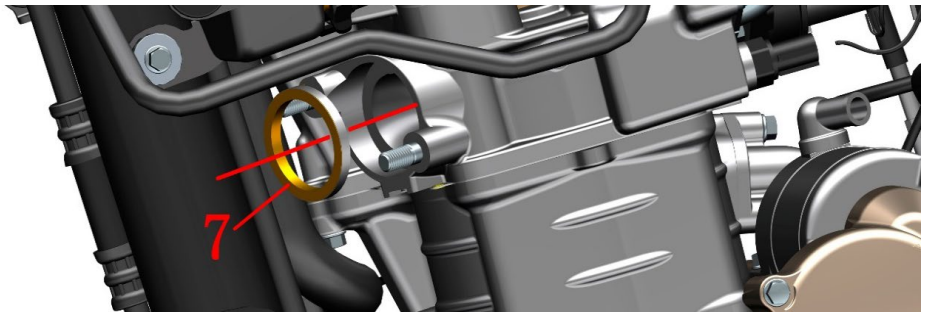


E

Fig.2 Muffler component		Muffler front component 1	CHK ADJ	
No.	Part No.	Part Name	QTY	CAUTION
1	1224100-013000	ZT250－S oxygen sensor fixed buckle		
2	1250205-023000	GB70.1 inner hexagonal M8X35 (color Zinc)	2	
3	1274100-068095	ZT310 Muffler flanging bushing	4	
4	1250303-011093	GB6177.1M8（color Zinc）	1	
5	1251300-058093	inner hexagonal nut M8 (color Zinc)	2	
6	1020241-094000	ZT250－S muffler flange	1	
7	1070100-133000	ZT250－S engine exhaust port seal gasket	1	

PROCEDURE：

●Oxygen sensor fixed 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 PIC A). Separate the oxygen sensor connector from the main harness.

●Muffler component

Lower the side bracket to fix the motorcycle.

Under the right nameplate of the motorcycle， remove the bolt (2)after fixing the nut (4) with a boxer wrench, and remove the flanging bushing (3), as shown in PIC B.

Remove the nut (5) and remove the muffler flange (6) as shown in PIC C.

Hold the muffler front assembly with one hand, remove the bolt (2) from the bottom of side bracket mounting plate with one hand, and remove the bushing (3) as shown in PIC D.

After removing the muffler front component, remove the gasket (7) as shown in PIC E.

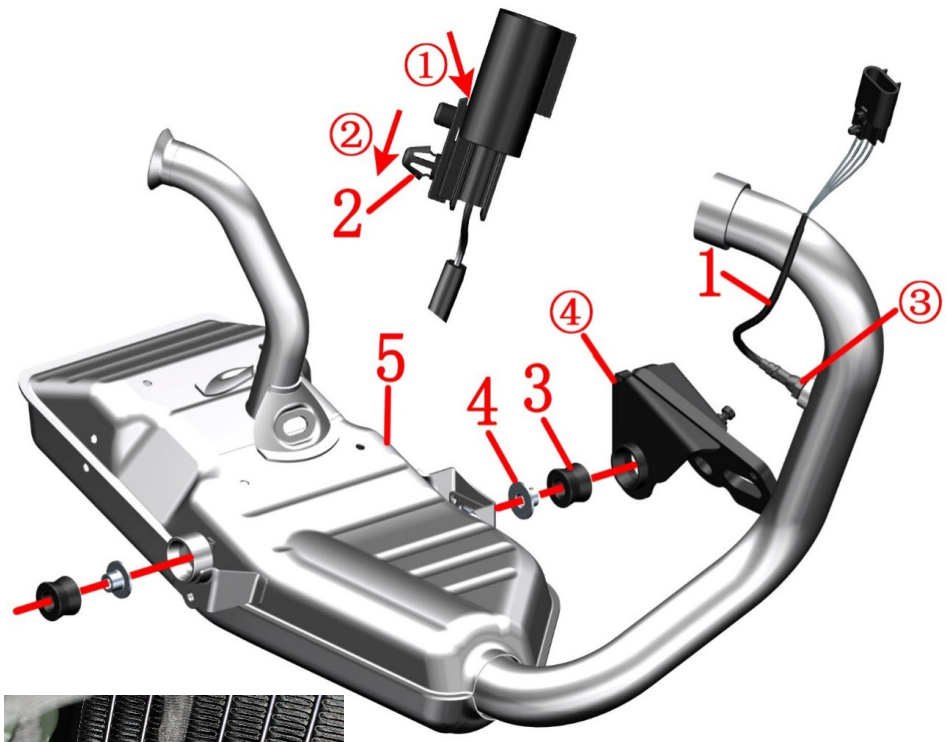
CAUTION:

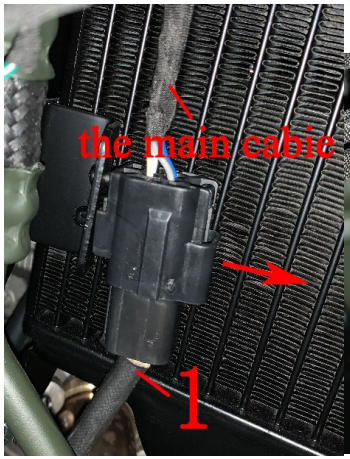
●The lower wind deflector assembly needs to be removed in advance,details about discounting step shown as“ Lower shroud assembly”.

●The muffler should be completely cooled before it is disassembled.

●Prevent other staff from entering the interior of muffler or engine.

●It is recommended that a new gasket should be replaced each time during the front assembly of muffler removing so as to prevent air leakage.





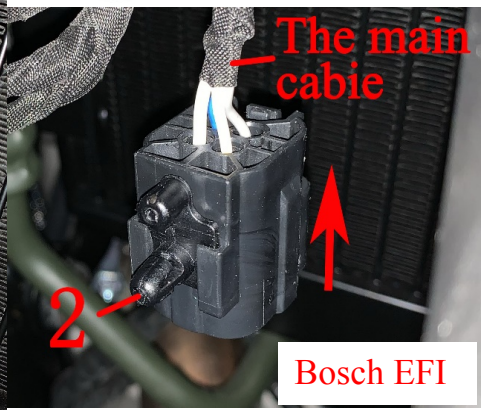


Fig.3 Muffler component		Muffler front component 1	CHK ADJ	
No.	Part No.	Part Name	QTY	CAUTION
1	1050953-008000	OSM planar oxygen sensor 25322728	1	Delphi EFI
	1050954-026000	LSF oxygen sensor		Bosch EFI
2	1224100-013000	ZT250-S Oxygen sensor fixing buckle	1	
	1224200-008000	ZT310-R cable clip		
3	1244100-064000	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 oxygen sensor fixing buckle of Bosch EFI is placed on the connector at one end of the main cable.

●Buffer assembly

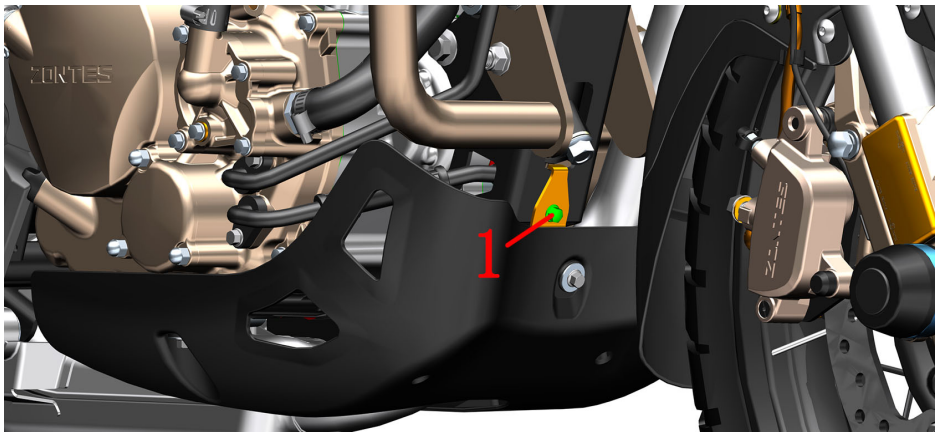
Remove the bushing(3) and cushion rubber(2) from the frame④.

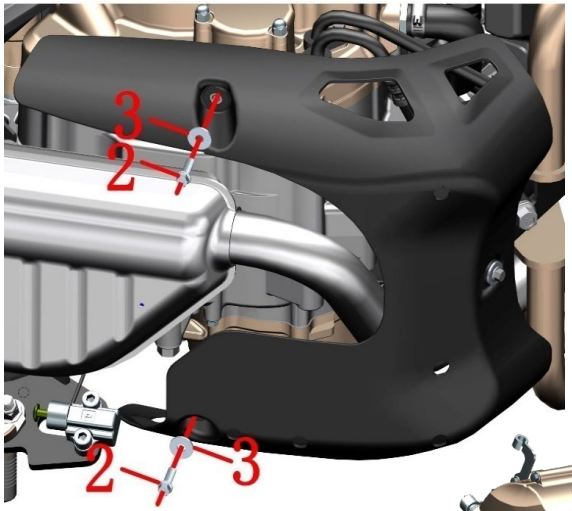
Remove the bushing(3) and cushion rubber(2) from the muffler front part(5).

CAUTION:

●The muffler should be completely cooled before it is disassembled.

●Prevent foreign matter from entering the interior of the muffler.





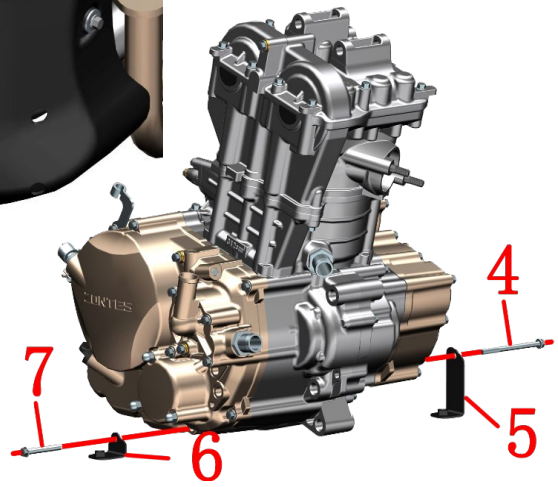


Fig.1 LOWER SHROUD COMPONENT		Lower shroud component 1	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251112-001093	M6×16 hex flange bolt (environmental color zinc)	1	
2	1251100-061093	M6×22 Hex flang bolt thread level 8.8 (color zinc)	2	
3	1250502-010093	GB96.1φ6（color zinc）	2	
4	1251112-005093	M6×75 Hex flange bolts (color zinc)	1	12±1.5N.m
5	1274200-065000	ZT310-R Lower shroud left bracket	1	
6	1274200-066000	ZT310-R Lower shroud right bracket	1	
7	1251112-003093	M6×45 Hex flange surface 9.8 bolts (color zinc)	1	12±1.5N.m

PROCEDURE:

●Lower shroud component

Raise the platform of the motorcycle,remove the bolt (1).

support the lower shroud assembly with one hand,Remove the bolts(2) at the both sides of the lower shroud and flange bushing.Then put away the lower shroud component.

●Lower shroud bracket

Remove the bolt (4) with the sleeve and remove the left shroud bracket (5).

Remove the bolt (7) with the sleeve and remove the right shroud bracket (6).

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 (4) and (7) must meet the standard torque and must be coated with a thread tightening glue.

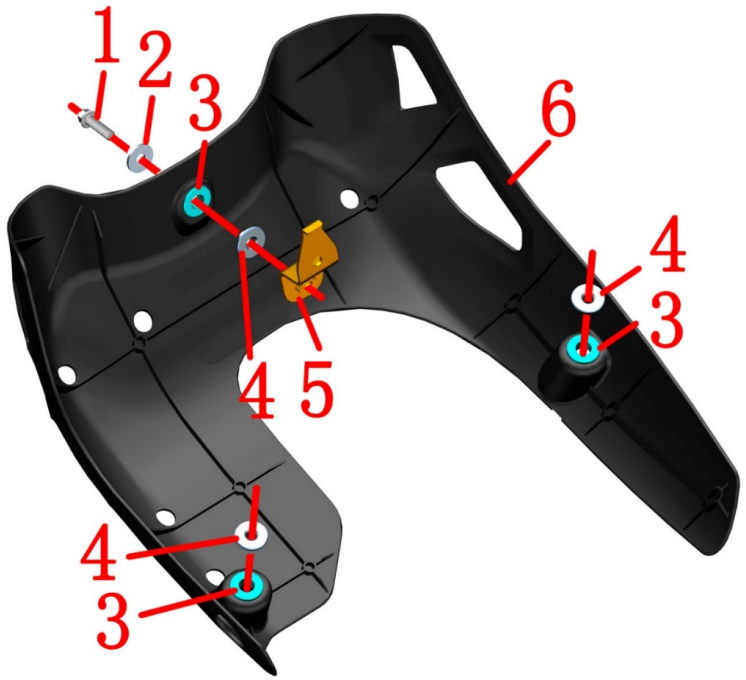


Fig.2 LOWER SHROUD COMPONENT		Sliding clutch version lower shroud component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-061093	M6×22 Hex flang bolt thread level 8.8 (color zinc)	1	
2	1250502-010093	GB96.1φ6（color zinc）	1	
3	1244100-004000	ZT250 －S Flanging bushing buffer	3	
4	1274100-007000	ZT250－S Flanging bushing(φ6.4×φ9×6＋φ20×2)	1	
5	1274200-067000	ZT310－T front bracket of lower shroud	1	
6	1224200-101000	ZT310－T lower shroud	1	

PROCEDURE:

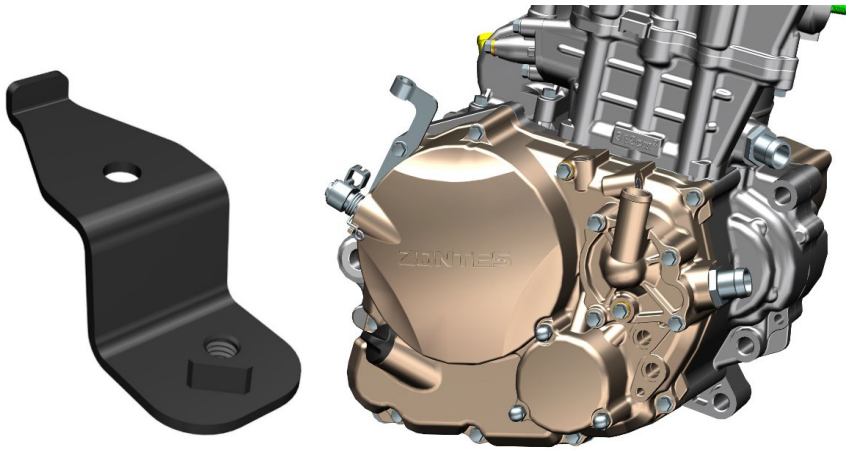
●Front bracket of lower shroud

Hold the front bracket of lower shroud tightly (5),remove bolt (1) and gasket (2).

●Lower shroud component

Remove 3 units of the flanging bushing (4) and the flange bushing buffer rubber (3) from lower shroud (6).

5



CAUTION：

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

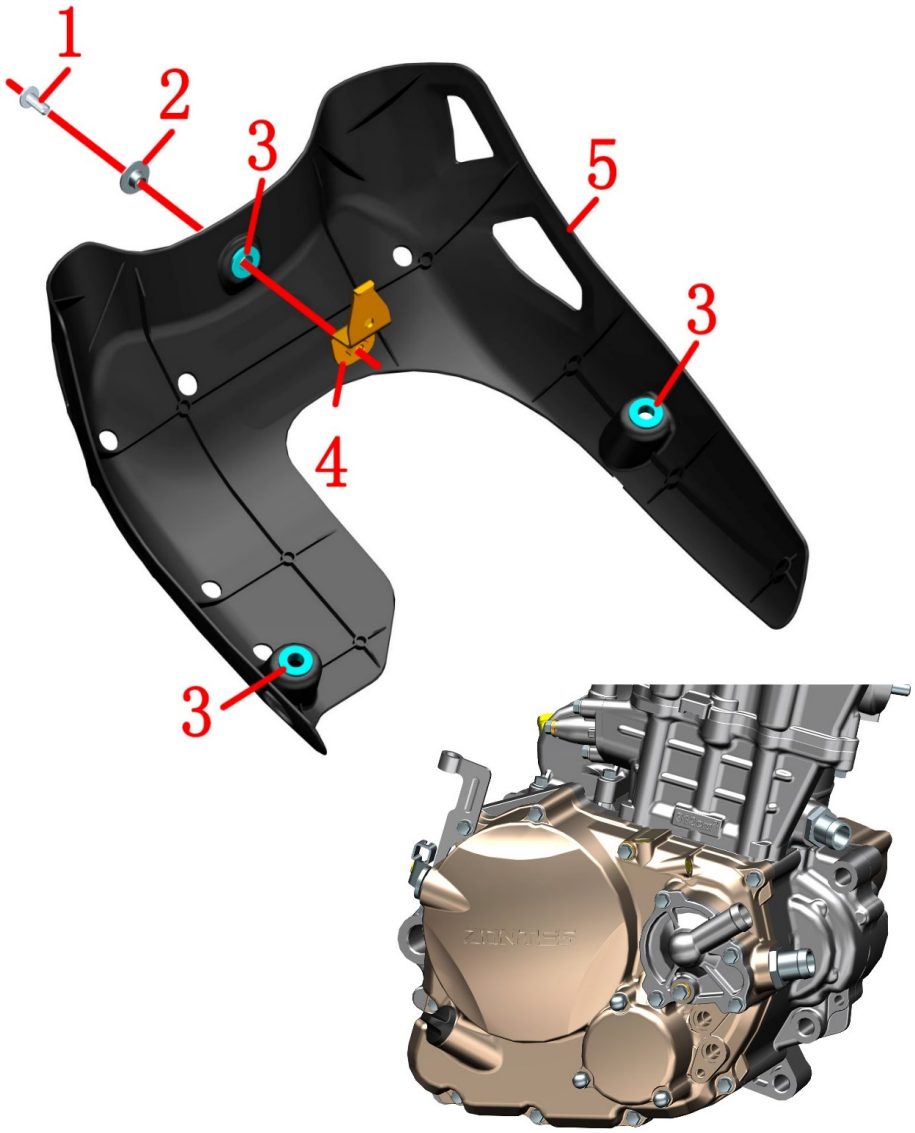


Fig.3 LOWER SHROUD COMPONENT		Light-clutch version lower shroud component	CHK ADJ	
NO.	PART NO.	PART NAME	QTY	CAUTION
1	1251100-102000	Non-standard bolt M6×16 (304 stainless steel)	1	
2	1274100-007000	ZT250－S Flanging bushing(φ6.4×φ9×6＋φ20×2)	1	
3	1244100-004000	ZT250 －S Flanging bushing buffer	3	
4	1274200-067000	ZT310－T front bracket of lower shroud	1	
5	1224200-101000	ZT310－T lower shroud	1	

PROCEDURE:

●Front bracket of lower shroud

Hold the front bracket of lower shroud tightly (4),remove bolt (1) and flange bushing (2).

●Lower shroud component

Remove 3 units of the flange bushing buffer rubber (3) from lower shroud (5).

CAUTION：

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