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1 Electrical parts

1.1. Headlight assembly

Preparatory work:

Remove the front cover- See Section 01 of Chapter II

Remove the lower left cover and the lower right cover - See Section 02 of Chapter II

Step1
Unplug the harness of the headlight.



Step2:
Remove the 2 screws as shown in the figure.



Step3
Remove the 2 screws that under headlamp as shown in the figure. Then remove the headlights (including lampshade).



Step4

Remove the 5 screws in the red circle with a phillips screwdriver.



1.2. Speedometer assembly

Preparatory work:



Remove the lower cover - See Section 01 of Chapter II

Remove the mounting plate of the denso - see chapter 2, Section 03

Step1

Unplug the instrument assembly connector as shown in picture.





<p>Step2 Unscrew 2 nuts from instrument bottom shell with 10mm socket wrench, then remove the speedometer assy.</p>	
<p>Step3 Unscrew 6 screws in the circle, and unplug harness of the speedometer.</p>	

1.3. Right switch assembly

Preparation:

Remove the front cover - see chapter 2, Section 01

Remove the mounting plate of the denso - see chapter 2, Section 02

<p>Step1 Unplug the right switch assembly connector, turn the handle connector and unplug the harness.</p>	
<p>Step2 Remove the right brake upper pump assembly retaining bolt with an 8mm wrench.</p>	

Step3

Remove the right switch combination of 2 screws with a phillips screwdriver (marked in the picture)



Step4

Remove the bolts with 5mm inner hexagon wrench and remove the handle weight.



1.4. Left switch assembly

Preparation:

Remove the front cover - see chapter 2, Section 01

Remove the mounting plate of the denso - see chapter 2, Section 02

<p>Step1 Unplug left switch assembly connector unplug harness.</p>	
<p>Step2 Remove the right brake upper pump assembly retaining bolt with an 8mm wrench.</p>	
<p>Step3 Remove the 2 screws in the left switch combination with a phillips screwdriver (marked in the figure).</p>	
<p>Step4 Remove the bolts with 5mm inner hexagon wrench and remove the handle weight.</p>	

1.5. Converter

Preparation:

Remove the front cover - see chapter 2, Section 01

Step1

Remove the two screws in the red circle with a phillips screwdriver.



Step2

Unplug the converter connector, remove the converter.



1.6. Alarm

Preparation:

Remove the front cover ---- see chapter 2, Section 01

Step1

Arrow points to the components is the alarm host, with a screwdriver to remove two screws.



Step2
Unplug the alarm connector, remove the alarm.



1.7. Horn

Preparation:

Remove the front cover ---- see chapter 2, Section 01

Step1
Unplug the speaker connector.



Step2
Remove the fixing bolts of the horn bracket with a 10mm socket wrench and remove the horn



1.8. Flasher

Preparation:

Remove the front cover - see chapter 2, Section 01

Step1
Remove the flasher rubber bracket



Step2
Unplug the flasher connector and remove the flasher.



1.9. Battery

Preparation:

Take out the battery hatch cover -- see chapter 2, Section 12

<p>Step1 Turn off the power lock switch.</p>	
<p>Step2 Power off air.</p>	
<p>Step3 Unscrew the battery bend buckle and pull out the bend wire.</p>	

1.10. Tail lamp

Preparation:

Remove the battery-- see chapter 01, Section 09

Remove the luggage box-- see chapter 02, Section 13

Remove the Sub Seat Comp Double-- see chapter 02, Section 26

Remove the rear carrier- see chapter 02, Section 27

Remove the center cover- see chapter 02, Section 28

Step1

Remove the three screws in the red circle with a phillips screwdriver.



Step2

Pull out 3 plugs in the red circle, and remove the taillight.


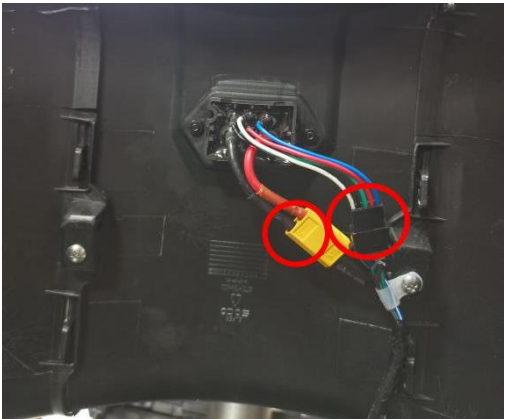


1.11. Charging port

Preparation:

Remove the battery-- see chapter 01, Section 09

Remove the luggage box-- see chapter 02, Section 13

<p>Step1 Remove the charging port fixing 2 screws with a phillips screwdriver.</p>	 A close-up photograph of the charging port cover on a dark grey or black plastic housing. The cover is rectangular with rounded corners and a latch mechanism at the top. Two screws are visible on the left and right sides of the cover, each circled in red. Above the cover, there is a yellow triangular warning symbol with a lightning bolt inside.
<p>Step2 Pull out 2 connector inside the center cover, then remove the charging port.</p>	 An internal view of the charging port area. The cover has been removed, revealing a complex arrangement of wires and connectors. Two connectors are circled in red: a yellow one and a blue one. The wires are color-coded, with red, blue, and white wires visible. The background is dark, showing the internal components of the device.

1.12. Air switch

Preparation:

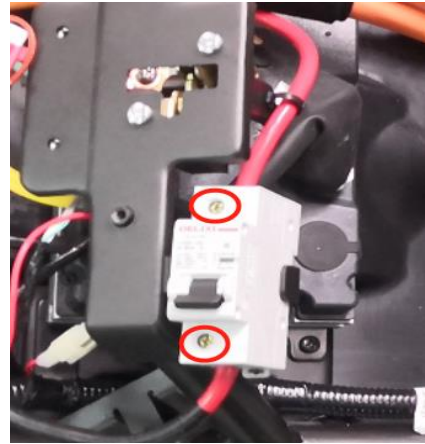
Take out the battery hatch cover -- see chapter 02, Section 12

Remove the battery -- see chapter 01, Section 09

Remove the luggage box -- see chapter 2, Section 13

Step1

Turn off the air switch, loosen the two power connections with a phillips screwdriver, unplug the power cord.



Step2

Open the lower button and pull it out. Take out the air switch.



1.13. Rear winker

Preparation:

Remove the battery-- see chapter 1, Section 09

Remove the luggage box -- see chapter 02, section 13

Remove the saddle assembly-- see chapter 02, Section 26

Remove the rear carrier- see chapter 02, Section 27

Remove the center cover- see chapter 02, Section 28

Step1

Unplug left and right turn signal connectors



Step2

Remove the retaining nut with a 14mm open wrench and remove the rear winker.



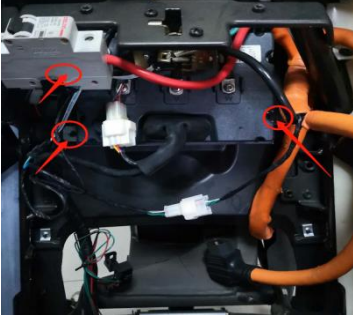


1.14. Controller

Preparation:

Remove the battery - see chapter 01, Section 09

Remove the luggage box - see chapter 02, Section 13

<p>Step1 Unplug the controller connector.</p>	
<p>Step2 Remove 5 screws with a phillips screwdriver and remove the terminal line of the controller (phase line, positive and negative).</p>	
<p>Step3 Remove 3 screws with a phillips screwdriver and remove the controller fixing bracket. Remove the controller.</p>	

1.15. Side stand switch set.

Preparation:

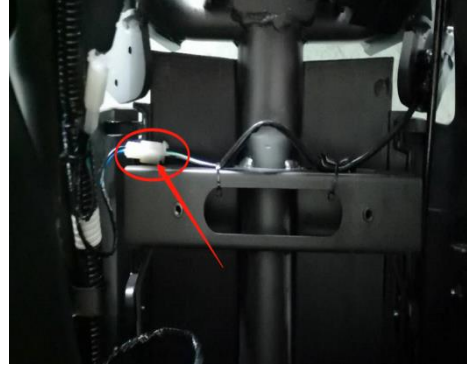
Remove the battery cover-- see chapter 02, Section 12

Remove the battery -- see chapter 00, Section 09

Remove the luggage box -- see chapter 2, Section 13

Step1

Unplug power switch (left and right).



Step2

Remove 2 screws with a phillips screwdriver and remove the side stand switch set.



1.16. USB interface

Preparation:

Remove the front cover - see chapter 2, Section 01

Step1

Unplug the USB connector.



Step2

Push back the USB interface and take it out.



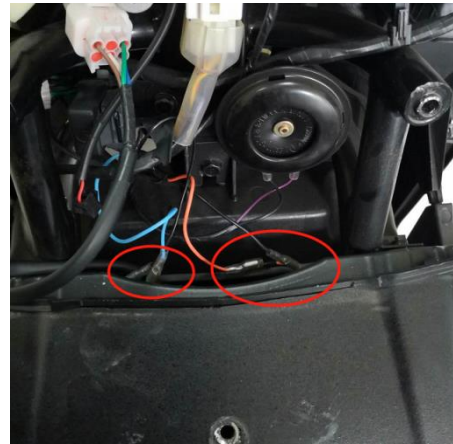
1.17. Front Winker

Preparation:

Remove the front cover - see chapter 2, Section 01

Step1

Unplug left and right turn signal connectors.



Step2

Remove the retaining nut with a 14mm open wrench and remove the winker(right and left).



1.18. Motor

Preparation:

Take out the battery cover -- see chapter 02, Section 12

Remove the battery-- see chapter 01, Section 09

Remove the triple-phase line in the controller-- see chapter 01, Section 15

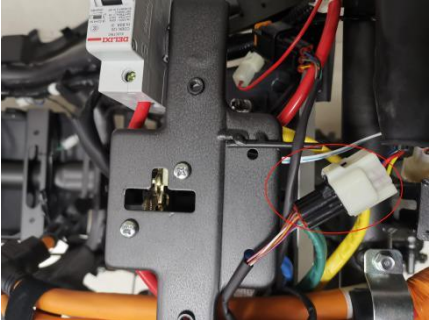



Remove the luggage box-- see chapter 2, Section 13

Remove the saddle assembly-- see chapter 02, Section 26

Remove the rear carrier- see chapter 02, Section 27

Remove the center cover- see chapter 02, Section 28

Remove the rear wheel assembly - see chapter 02, Section 41

<p>Step1 Unplug the motor Hall connector.</p>	
<p>Step2 Unscrew a screw with 10mm sleeve to remove the motor fixing bracket.</p>	
<p>Step3 Remove two bolts and flat fork guard with 5mm socket screw hexagon wrench.</p>	
<p>Step4 Remove the rear brake caliper assembly fixing bolts with a 12mm wrench</p>	

2 Mechanical parts

2.1 Front cover

Step1

Remove the two screws in the red circle with a phillips screwdriver.



Step2

Remove the front cover by pushing the front cover upward in the direction shown in the picture.



2.2 Electric Installation Plate

Preparation:

Remove the front cover ---- see chapter 2, Section 01

Step1

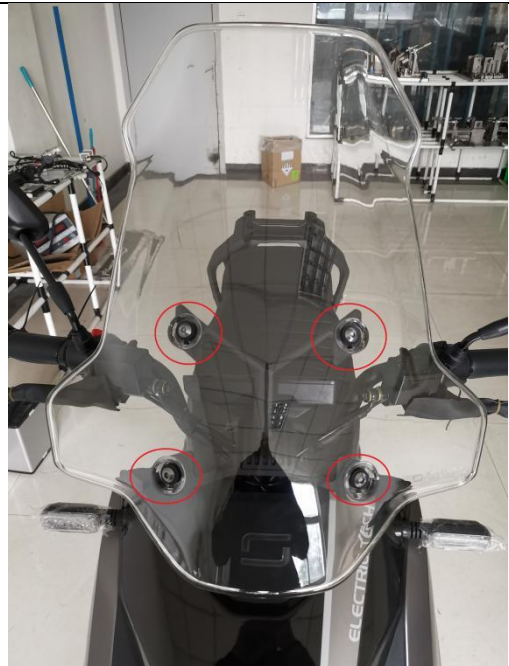
Unscrew 3 screws in the red circle with 10mm sleeve ,and remove the Electric installation plate.



2.3 Front windshield

Step1

Use the socket screw hexagon wrench to unscrew 4 screws in the red circle, remove the front windshield.(Hold on with your hand before removing the last screw to keep the front wind from falling)



Step2

Remove the 2 screws in the picture with an Allen wrench to remove the front windshield bracket



2.4 Right and left Garnish in Front cover

Preparation:

Remove the front cover - see chapter 2, Section 01

Step1

Remove the left and right 4 screws from the red circle with a phillips screwdriver



Step2

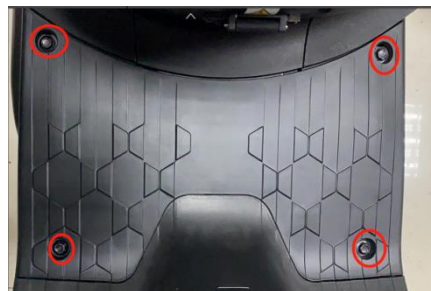
Use a phillips screwdriver to remove the left and right screws in the red circle of the main beam cover and remove the left and right front cover



2.5 Pedal

Step1

Remove the four bolts in the red circle with a 10mm nail sleeve and take out the pedal.



2.6 Left /right Side strip

Preparation:

Remove the front cover - see the chapter 02 ,section 01

Remove the left and right front shields -- see Chapter 2, Section 04


Remove the foot rest pedal.

Step1

Remove the left and right 7 screws in the red circle with a phillips screwdriver and take out the side strip.



2.7 Hook



<p>Step1 Remove one bolt from the red circle with a 10mm nail sleeve and take out the hook.</p>	 A close-up photograph of the steering lock assembly on a vehicle. A red circle highlights a bolt on the lock cover. A key is inserted into the lock cylinder. A yellow warning sticker is visible above the lock, and the number '140%' is printed on the plastic housing.
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2.8 Lock cover

Preparation:

Remove the front cover - see chapter 02, section 01

Remove the front right cover and front left cover - see chapter 02, section 04

<p>Step1 Remove the screw in the red circle with cross screwdriver</p>	 A close-up photograph showing a cross screwdriver being used to remove a screw from the lock cover. A red circle highlights the screw head.
<p>Step2 Turn the lock cover to the left to remove the power cover</p>	 A close-up photograph of the steering lock assembly. A red circle highlights the lock cover, and a red curved arrow indicates it should be turned to the left. A key is inserted into the lock cylinder. A yellow warning sticker is visible above the lock.

2.9 Main girder cover

Preparation:

Remove the front cover - see chapter 02, section 01

Remove the left and right front shields - see Chapter 02, Section 04

Take off the foot rest pedal- see Chapter 02, Section 05

Remove the (left/right) side strip- see chapter 02, Section 06

Remove the hook - see chapter 2, Section 07

Remove the power lock cover - see chapter 2, Section 8

Step1

Remove the left 3 screws and right 3 screws in the red circle of the front lower cover with a phillips screwdriver



2.10 Inner pocket

Preparation:

Remove the front cover ----- see chapter 02, section 01

Remove the electric installation plate----- see chapter 02, section 02

Remove the left and right front shields -- see Chapter 2, Section 04

Step1

Remove 5 screws in the red circle of the front lower cover with a phillips screwdriver and remove the inner pocket.



2.11 VIN Cover

Step1
using straight screwdriver to pry-out the
VIN cover in the red circle.



2.12 Battery compartments cover

Step1
Open the saddle lock, remove the battery
compartments cover.



2.13 Luggage box

Preparation:

Take out the battery cover-----see chapter 02, section 12

Remove the battery-----see chapter 01,section 09

Step1
Use a 10mm nail sleeve to remove the four
screws in the red circle, and take out the
storage box



2.14 Brake Handlebar

Step1

Use a 10mm socket wrench to remove the two bolts and nuts in the red circle, and remove the handlebar . (same right and left).



2.15 Left handle grip

Step1

Use a 5mm allen wrench to remove the bolt, take out the handlebar weight.



Step2

Hold the handle grip, rotate and pull it out.



2.16 Handlebar

Preparation:

Remove the front cover- see chapter02, section 01

Remove the front right/left side shield - see chapter 02, section 04

Remove the footrest - see chapter 02, section 05

Remove the left/right side strip - see chapter 02, section 06

Remove the hook - see chapter 02, section 07

Remove the Power lock cover - see chapter 02, section 08

Remove the main girder cover - see chapter 02, section 09

Remove the left and right switch assy - see chapter 01, section 03 and section 04

Remove the brake lever - see chapter 02, section 14

Remove the left handle grip - see chapter 02, section 15

Step1

Use a 5mm allen wrench to remove the four screws on handlebar holder, take out the handlebar.



2.17 Post Comp , Handle

Preparation:

Remove the front cover - see chapter 2, section 01

Remove the left and right front shields - see Chapter 2, Section 4

Take off the footrest- see Chapter 02, Section 05

Remove the (left/right) side strip - see chapter 02, section 06

Remove the hook - see chapter 2, Section 7

Remove the power lock cover - see chapter 02, Section 08

Remove the main girder cover - see chapter 2, Section 09

Remove the left and right switch assembly - see chapter 1, Section 3 and section 4

Take off the handlebar - see chapter 01, Section 16

Step1

Remove the 1 bolt in the red circle with 14mm socket wrench ,then remove the Stand pipe.



2.18 Steering stem

Preparation:

Remove the front cover-- see Chapter 02, Section 01

Remove the left and right front shields -- see Chapter 02, Section 04

Take off the footrest - see Chapter 02, Section 05

Remove the (left/right) side strip-- see chapter 02, section 06

Remove the hook -see chapter 02, section 07

Remove the Power lock cover -see chapter 02, section 08

Remove the main girder cover -see chapter 02, section 09

Remove the left and right switch assy-see chapter 01, section 03 and section 04

Take off the handlebar - see chapter 02, Section 16

Take off the stand pipe - see chapter 02, Section 17

Remove the front absorber - see chapter 02, Section 23

<p>Step1 Remove the steering column nut assembly in the sequence shown in the drawing and remove the steering stem with a special tool. (1. monkey wrench 2. Hook wrench)</p>	
<p>Step2 Remove the steering stem and other accessories downward.</p>	
<p>Step3 Take off the absorber, then remove the steering stem.</p>	

2.19 Front fender

Step1

Use a 5mm Allen wrench to remove the two screws on the left and right of the red circle of the front fender, and then remove the front fender



2.20 Head lock assembly

Preparation

Remove the front cover-- see Chapter 02, Section 01

Remove the left and right front shields - see Chapter 02, Section 04

Take off the footrest - see Chapter 02, Section 05

Remove the (left/right) side strip - see chapter 02, section 06

Remove the hook - see chapter 2, Section 7

Remove the power lock cover - see chapter 02, Section 08

Remove the main girder cover - see chapter 2, Section 09

Take off the stand pipe - see chapter 02, Section 17

Remove the steering column - see chapter 02, Section 18

Step1

Unplug the power lock assembly connector and unplug the harness.



Step2

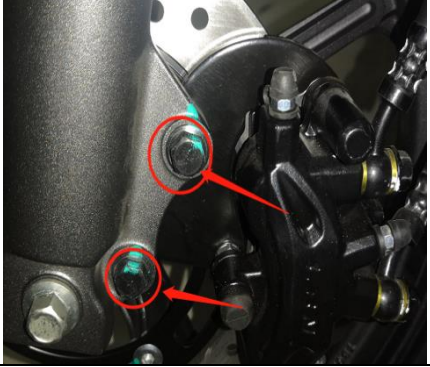


Remove the two screws in the red circle with a phillips screwdriver and remove the power lock assembly.



2.21 FRONT WHEEL

Preparation

Before remove the front wheels, prepare shelves to hold the car up so that it will remain stable once the front wheels are removed.

<p>Step1 Use a 12mm socket wrench to unscrew 2 screws of the front caliper in the red circle, and remove the front brake pump.</p>	
<p>Step2 Unscrew two bolts (right and left) in the red circle with socket wrench</p>	
<p>Step3 After loosening the screw, pull out the front axle and remove the front wheel according to the direction of the arrow.</p>	

2.22 Front bottom cover

Preparation:

Remove the front cover - see Chapter 02, Section 01

Remove the left and right front shields - see Chapter 02, Section 04

Take off the footrest - see Chapter 02, Section 05

Remove the (left/right) side strip - see chapter 02, section 06

Remove the hook - see chapter 02, section 07

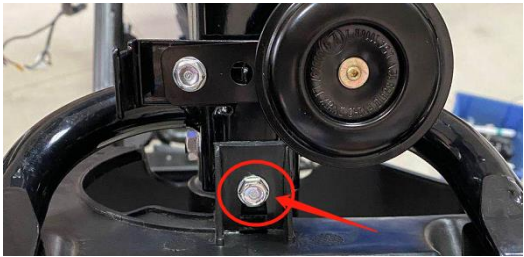


Remove the Power lock cover - see chapter 02, section 08

Remove the main girder cover - see chapter 02, section 09

Remove the front fender - see chapter 02, section 19

Remove the front wheel - see chapter 02, section 21

Remove the front absorber - see chapter 02, Section 23

<p>Step1 Remove one bolt from the red circle with a 10mm nail sleeve.</p>	
<p>Step2 Unscrew two screws under bottom cover as shown in the figure with phillips screwdriver.</p>	
<p>Step3 Remove the 2 bolts in the red circle with a 10mm nail sleeve and remove the front bottom cover.</p>	

2.23 Front shock absorber

Preparation:

Remove the front cover-- see Chapter 02, Section 01

Remove the left and right front shields - see Chapter 02, Section 04

Take off the footrest - see Chapter 02, Section 05

Remove the (left/right) side strip - see chapter 02, section 06

Remove the hook - see chapter 02, section 07

Remove the Power lock cover - see chapter 02, section 08

Remove the main girder cover - see chapter 02, section 09

Remove the steering column - see chapter 02, Section 18

Remove the front fender - see chapter 02, section 19

Remove the front wheel - see chapter 02, section 21

Remove the front bottom cover - see chapter 02, section 22

Step1

Remove the 2 fixing bolts of the front caliper bracket in the red ring with a 12mm socket wrench and take off the front brake pump.



Step2

Use a 14mm socket wrench to remove the left and right bolts from the red circle.



2.24 Front/rear brake disc

Preparation

Remove the front wheels -- see chapter 02, section 21

Remove the rear wheel(rear motor) -- see chapter 01, section 19

Step1

Remove the first four and three fixing bolts of the brake disc with a 6MM hexagon wrench and remove the brake disc.

Note: Due to the gluing treatment of the brake disc screw during installation, attention should be paid to remove the screw to avoid the injury caused by the slip of the hexagon socket bolt!



2.25 L/R guide cowl

Preparation:

Take out the battery hatch cover -- see chapter 2, Section 12

Take out the lithium battery -- see chapter 1, Section 09

Take out the luggage box. See chapter 2, Section 13

Step1

Remove the seat latch, unscrew the left and right 4 screws in the red circle with a phillips screwdriver and take down the left and right air guide



2.26 Sub Cushion Assy.

Step1

Remove 2 screws in the red circle, then push the seat in the direction of the red arrow to remove the sub cushion assembly



2.27 Rear shelf

Preparation:

Remove the vice cushion assy ----- see chapter 02, section 26

Step1

Use a 12mm nail sleeve to remove the three bolts in the red circle and the rear shelf.



2.28 Rear Center Cover

Preparation:

Take out the lithium battery -- see chapter 1, Section 09

Take out the luggage box----See chapter 2, Section 24

Remove the vice cushion assemble-----See chapter 2, Section 26

Remove the rear shelf-----See chapter 2, Section 27

Step1

Unscrew 2 screws on the left and right as shown in the figure with phillips screwdriver.



Step2

Unscrew 2 screws on the left and right as shown in the figure with phillips screwdriver, open the rear center cover.



Step3

Remove the cushion lock latch in the red circle, then remove the rear center cover.



2.29 L/R body cover

Preparation:

Take out the lithium battery - see chapter 1, Section 09

Take out the luggage box - see chapter 02, Section 13

Remove L/R guide cowl - see chapter 02, Section 25

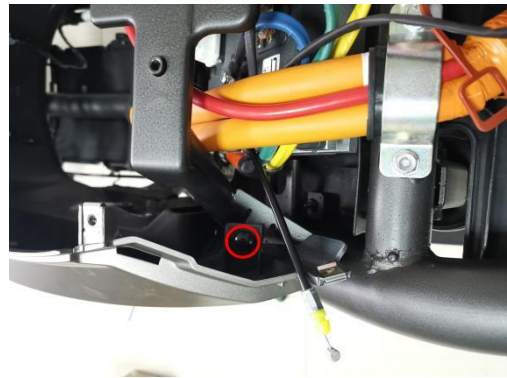
Remove the vice cushion assy - see chapter 02, Section 26

Remove the rear shelf - see chapter 02, Section 27

Remove the rear center cover - see chapter 02, Section 28

Step1

Remove the left and right screws from the red circle with a phillips screwdriver.



Step2

With a phillips screwdriver, remove 2 left screws and 2 right screws in the red circle and remove the vehicle body cover.



2.30 Center Cover

Preparation:

Take out the lithium battery - see chapter 1, Section 09

Take out the foot pedal - see chapter 02, Section 05

Take out the luggage box - see chapter 02, Section 13

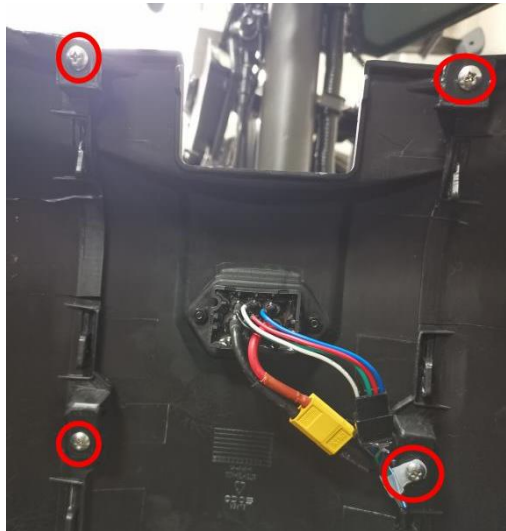
Step1

Use a phillips screwdriver to remove 2 screws in the red circle



Step2

Remove 4 screws inside the center cover.



Step3

Pull out 2 plugs inside the center cover, then remove the central cover.



2.31 Central L/R cover

Preparation:

Take off the footrest - see Chapter 02, Section 05

Take off the lithium battery - see Chapter 01, Section 09

Take off the luggage box - see Chapter 02, Section 13

Remove the vice cushion assemble - See chapter 2, Section 26

Remove the rear shelf - See chapter 2, Section 27

Remove the rear center cover - see chapter 02, Section 28

Remove the L/R body cover - see chapter 02, Section 29

Remove the center cover - see chapter 02, Section 28

Step1

Unscrew the left and right screw in the red circle, then remove the center L/R cover.



2.32 Bottom cover

Preparation:

Remove the front cover - see chapter 02, Section 29

Remove the L/R body cover - see chapter 02, Section 29

Take off the footrest - see Chapter 02, Section 05

Remove the (left/right) side strip - see chapter 02, section 06

Step1

Remove the left and right fixing screw, the remove the bottom cover.



2.33 Rear bottom cover

Preparation:

Take out the lithium battery ---- see chapter 1, Section 09

Take out the luggage box---- see chapter 02, Section 13

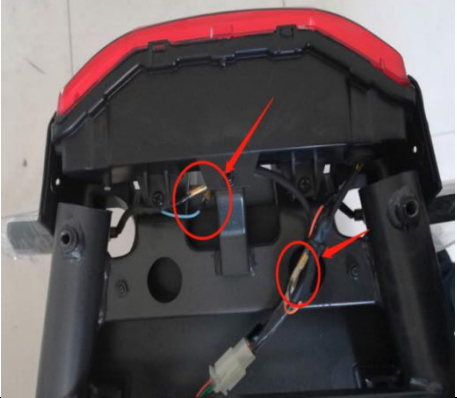


Remove the vice cushion assy -----see chapter 02, Section 26

Remove the rear shelf -----see chapter 02, Section 27

Remove the rear center cover -----see chapter 02, Section 28

Remove the rear turn light----- see chapter 1, Section14

Remove the rear license ----- see chapter 02, Section 35

<p>Step1 Unplug left and right turn light connector.</p>	
<p>Step2 Remove 2 left screws and 2 right screws in the red circle with a phillips screwdriver.</p>	
<p>Step3 Remove 4 left screws and 4 right screws in the red circle with a phillips screwdriver, then remove the rear bottom cover.</p>	

2.34 Main Stand

Preparation:

Removal of the main stand requires side stand to be raised so that the vehicle remains stable after the main support is removed.

<p>Step1 Remove the main stand spring with needle-nosed pliers.</p>	
<p>Step2 Remove the main stand sub spring with needle-nosed pliers.</p>	
<p>Step3 Draw the main stand axis in the direction of the arrow and remove the main stand.</p>	

2.35 Tail license

Step1

Unscrew vehicle rear 2 screws, then remove the tail license.



2.36 L/R side stand

Preparation:

Removal of the side stand requires the main stand to be raised so that the vehicle remains stable after the side stand is removed.

Step1

Remove side stand springs with needle-nosed pliers




Step2

Remove the side stand nut with a 17mm socket wrench, loosen the rotating shaft nut, remove the nut and remove the side stand.



2.37 Rear fork cover

<p>Step1 Remove 2 bolts and rear fork cover with 5mm socket screw hexagon wrench.</p>	
---	--

2.38 CBS assy

Preparation:

Remove the front cover-----see Chapter 02, Section 01

Remove the left and right front side shields-----see Chapter 02, Section 04

Take off the footrest ----- see Chapter 02, Section 05

Remove the (left/right) side strip-- see chapter 02, section 06



Remove the hook -----see chapter 02, section 07

Remove the Power lock cover -----see chapter 02, section 0

Remove the main girder cover -----see chapter 02, section 09

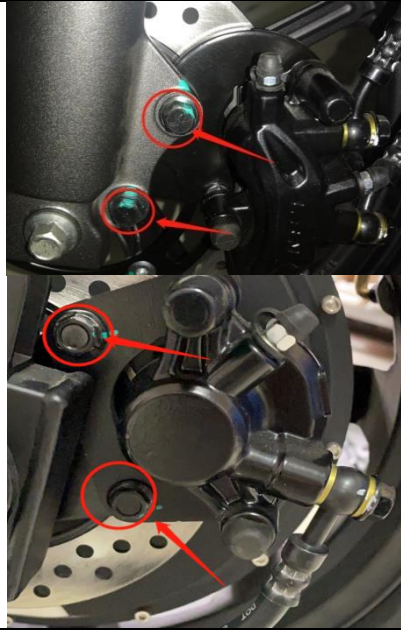
Remove the brake grip-----see chapter 02, section14

Remove the rear fork cover-----see chapter 02, section 37

<p>Step1 Use a 10mm sleeve to remove the front oil-pipe bracket bolts in the red circle.</p>	
<p>Step2 Use a 10mm sleeve to remove the fixing bolts of sub-pump in the red circle.</p>	

Step3




Use a 12mm sleeve to disassemble the 2 fixing bolts of the front and rear caliper brackets in the red circle, and remove the CBS assembly.



2.39 Rear fender and bracket

Description

Remove the rear fork cover - see chapter 22 section II

<p>Step1 Use a 5mm allen wrench to remove the 1 left screw and 1 right screw on front of the rear fender.</p>	
<p>Step2 Use a 10mm sleeve to remove two bolts in the red circle, take out the fender bracket.</p>	
<p>Step3 Use a 5mm allen wrench to remove the 3 screws on front of the rear fender, take out the rear fender.</p>	

2.40 Rear Shock Absorber

Preparation

Take out the rear fork cover - see chapter 02, section 37

Step1

Use a 14mm socket wrench to remove the 2 bolts in the red circle, then take out the rear shock absorber.



2.41 Rear wheel assy

Preparation:

Remove the rear fork cover - see chapter 02 section 37

Remove the rear fender - see chapter 02, section ,39

Step1

Use a 17mm sleeve spanner to remove the four bolts in the red circle ,then take out the rear wheel.



3 Fault code list

Code	Reason	Solution
86	GPRS communication fault	1.Move the bike to good network area
		2.Reconnect ECU
		3.Replace ECU
87	GPS communication fault	1.Move the bike to good network area
		2.Reconnect ECU
		3.Replace ECU
88	Battery low temperature protection for discharging	1.Stop using bike when temperature below -20°C
		2.Replace temperature sensor
		3.Replace BMS
89	Battery low temperature protection for charging	1.Stop charging battery when temperature below -20°C and move the battery to warm place
		2.Replace temperature sensor
		3.Replace BMS
90	Battery discharging over current protection	1.Reduce loading weight of the bike if it's over
		2.Replace BMS
		3.Replace battery
91	Battery high temperature protection	1.Stop using bike when environmental temperature is too high and cool down battery
		2.Replace temperature sensor
		3.Replace BMS
92	Battery charging over voltage protection	1.Turn on the bike and turn the accelerator a little to discharge the battery
		2.Replace charger
		3.Replace BMS
		4.Replace battery
93	Battery charging over current protection	1.Replace charger
		2.Replace BMS
		3.Replace battery
94	Battery communication fault	1.Reconnect communication position on main harness
		2.Replace main harness
		3.Replace battery connector
		4.Replace BMS
95	Accelerator hall sensor fault	1.Check or replace accelerator
		2.Check the 30pins connector from main harness to controller
		3.Replace main harness
		4.Replace controller

96	Motor hall sensor fault	1.Check the motor hall sensor output voltage
		2.Check the 30pins connector from motor hall sensor connector to controller
		3.Replace controller
97	Controller power tube fault	Replace controller
98	Controller suspends operation	1.Charge battery if it's empty
		2.Replace battery(BMS fault or battery cells unbalance)
		3.Replace controller
		4.Replace motor
99	Controller communication fault	1.Check the 30pins connector from main harness to controller
		2.Replace controller
		3.Replace main harness
101	ECU bluetooth fault	1.Reconnect ECU
		2.Replace ECU
		3.Replace main harness
102	ECU communication fault	1.Move the bike to good network area
		2.Reconnect ECU
		3.Replace ECU
		3.Replace main harness
103	Speedometer environmental temperature fault	1.Move the bike to usual normal tempeature area
		2.Reconnect speedometer
		3.Replace speedometer
104	Speedomter self-checking fault	1.Restart bike
		2.Reconnect speedometer
		3.Replace speedometer
105	Battery discharging fault	1.Replace BMS
		2.Replace battery
106	Battery charging fault	1.Replace charger
		2.Replace BMS
		3.Replace battery
107	Battery low voltage protection	1.Charge battery if it's empty
		2.Replace BMS
		3.Replace battery
108	Battery stuck-open fault	1.Replace BMS
		2.Replace battery
109	Battery MOSFET fault	1.Replace BMS
		2.Replace battery
111	Battery serials unbalance fault	1.Replace BMS
		2.Replace battery
112	Battery ID fault	Replace BMS
113	BMS harnware fault	Replace BMS

4 Torque list

Nr.	Item	Specification	Torque
			N • m
1	SIDE STAND	M10×1.25	25~34
	NUT	M10×1.25	5~15
	PIVOT		
2	MOTOR		
	SWINGARM FIXATION	M30×1.5	110~130
3	REAR SHOCK ABSORBER		
	SIDE FRAME	M10×1.25	49~59
	REAR SIDE SWINGARM	M10×1.25	49~59
4	STEERING STEM		
	NUT OF STEERING STEM	M22×1.0	55~65
	SELF-LOCKING NUT OF HANDLEBAR	M10×1.25	25~34
	Lower coupling plate (front shock absorber fixation)	M10×1.25	25~34
	Upper coupling plate	M8×1.25	20~25
	WEIGHT, HANDLEBAR		9.8~14
5	WHEEL		
	FRONT WHEEL AXLE	M12×1.25	54~64
	REAR WHEEL	M12×1.25	54~64
	FRONT BRAKE DISC BOLT	M8×1.25	39~44
	REAR BRAKE DISC BOLT	M8×1.25	39~44
6	REAR SWINGARM		
	REAR SWINGARM AXLE	M12×1.25	49~59
7	BRAKE		
	R BRAKE LEVER BOLT	M6×1.0	0.5~1.5
	R BRAKE LEVER NUT	M6×1.0	5.0~7.0
	L BRAKE LEVER BOLT	M6×1.0	0.5~1.5
	L BRAKE LEVER NUT	M6×1.0	5.0~7.0
	FRONT BRAKE LOWER PUMP MOUNTING BOLT	M8×1.25	24~29
8	REAR SHELF		
	Fastening bolt (FRAME)	M8×1.25	29~34
	COVER	M6×1.0	9.8~14

TORQUE		
项目 Item	N • m	Kgf • m
5mm BOLT & NUT	4.4~6	0.45~0.6
6mm BOLT & NUT	8~12	0.45~0.6
8mm BOLT & NUT	18~25	1.8~2.5
10mm BOLT & NUT	29~39	3.0~4.0
12mm BOLT & NUT	49~59	5.0~6.0

Technical requirements

- 1.The conversion value between torque units (N • m) and (Kgf • m) in this figure is 9.81
- 2.The fastening sequence of bolts and nuts: after bolts are fixed according to the torque value, the nuts are fixed.