

Deepal S05

Dismantling manual



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Chongqing Chang'an Automobile Co., Ltd.

Dismantling Manual

Detail information

Vehicle Type	S05
Model Year	2025
Applicable Vehicle Model	SC6464AAKBEV(Two-wheel drive) SC6464AALBEV(Four-wheel drive)
Length/Width/Height (mm)	4598*1900*1600
Wheelbase (mm)	2880
Trunk Capacity (L)	/
Tire (spare tire) size	225/60R18; 245/45R20
Curb Weight (kg)	1940/2040
Transmission Form	Fixed speed ratio reducer
Fuel Type	BEV
Driving Mode	Rear wheel drive/Four wheel drive

Front view of 45° angle of real vehicle



Special instructions for disassembly

Please refer to the operation instructions provided by the manufacturer for the disassembly of power battery.

1.Introduction

With the development of automobile industry and the rapid rise of automobile ownership, the recovery, disassembly and treatment of automobile scrapping stage is of great significance for protecting the environment, promoting the comprehensive utilization of resources and realizing the healthy and sustainable development of automobile industry.

In order to ensure the harmless treatment of end-of-life vehicles, help and guide recycling and disassembly enterprises to complete the disassembly operation efficiently and safely, and treat the waste scientifically and environmentally, this vehicle dismantling manual is specially prepared.

This dismantling manual provides recycling and disassembly enterprises with relevant information such as methods and precautions for disassembling and recycling this model, so as to improve the recycling rate of end-of-life vehicles and reduce the possibility of damage to the environment and personnel during disassembly. The pictures and instructions of the model indicated in the manual are only valid for this model.

Please confirm the vehicle model before disassembly!

2.Terms and definitions

End-of-Life vehicles: vehicles that meet the national mandatory scrapping standards for motor vehicles.

Dismantling: carry out harmless treatment for scrapped vehicles and dismantle reusable parts and main components; Decompose and store according to the material type of each article; Procedures and methods for flattening or cutting vehicle body and structural parts.

Identification: most auto parts are marked with the material mark of the part on the surface or other positions. During disassembly, metal, plastic, liquid and other parts shall be classified according to different materials and stored in the specified way.

3.General description

As for the dismantling site, dismantling equipment, dismantling tools, collection and storage containers, as well as the liquid, solid waste and hazardous waste generated in the dismantling process, the dismantling enterprise and dismantling personnel shall comply with the provisions of relevant standards.

3.1 disassembly site and equipment

Disassembly should be carried out in a well ventilated place according to relevant regulations. Fire fighting supplies, first aid and eye cleaning supplies should be prepared in advance. Personal protective equipment is very important in the disassembly process, including protective clothing, protective shoes, goggles, gloves, ear muffs, helmet and mask.

Disassembly shall be carried out in accordance with corresponding procedures and regulations on environment, health and worker protection, including all work, handling, classification, transportation, storage, and treatment methods of other parts, chemicals, filters and other materials.

Dismantling should pay attention to the protection of land resources and surface water resources to avoid pollution. Toxic and harmful substances shall be treated in a well ventilated place according to the requirements of corresponding laws and regulations.

The staff must be familiar with and respect the corresponding safety instructions.

The disassembled hazardous waste shall be transported to the local approved waste disposal site.

According to the requirements of corresponding standards, all working fluids and specified parts and assemblies must be removed first. Relevant parts / assemblies must be easily disassembled and all working fluids shall be extracted as far as possible.

3.2 disassembly tools

All kinds of wrenches, screwdrivers, pliers, hammers, scissors, chisels, crowbars, electric saws and other special tools are required for the disassembly of this model.

3.3 description of disassembly process

This disassembly manual focuses on the pre-treatment and disassembly of the vehicle during the disassembly process of the vehicle.

According to the provisions of iso22628, the pretreatment part is mainly to disassemble tires, automotive liquids and other parts, some of which contain toxic and harmful substances, and some parts have certain risks in the disassembly process. This paper describes the pretreatment disassembly process in detail, in order to reduce or avoid the damage to the environment or staff in the subsequent disassembly process as much as possible.

4.Safety warning icon



Skin irritation



Explosive



Harmful Chemicals



Inflammable



High voltage



Wear gloves



Wear earplugs



Wear goggles



Wear protective boots



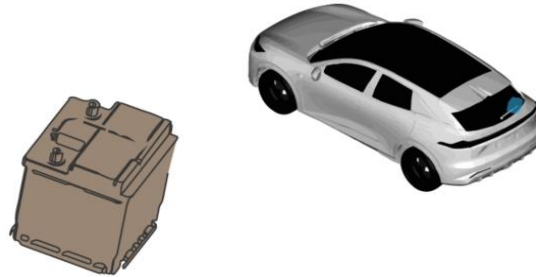
Wear safety helmet










5. Disassembling process and description

5.1 Pretreatment

5.1.1 Battery

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

Right and rear of the rear cabin

Main materials:

PP/lead/battery acid

Quantity:

1

Weight:

12.3Kg

Fasteners:

Nut

Number of fasteners:

2

Disassembly tools:

Open wrench

Disassembly method:

Loosen the fasteners and remove them

Recycling methods:

Delivery of battery recycling enterprises for processing

Notes for disassembly:

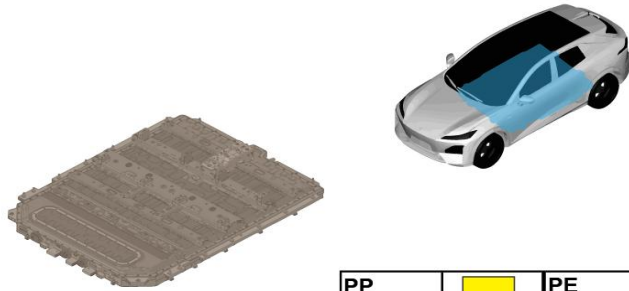
Avoid acid contact with skin and eyes to prevent burns; belong to highly flammable substances to prevent proximity to the fire source; belong to toxic substances to prevent skin contact; avoid direct exposure of batteries to the sun; wear protective equipment (protective glasses, gloves, etc.); operate in a well-ventilated environment;

Safety warning signs:



5.1.2 Traction battery

Pictures of parts:

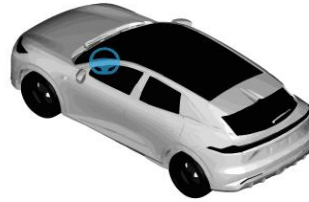


PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:	All
Location:	The lower part of the vehicle occupant compartment
Main materials:	Steel,Aluminum alloy,Copper,PVC,PA,Rubber
Quantity:	1
Weight:	512kg
Fasteners:	Bolt
Number of fasteners:	16
Disassembly tools:	Open wrench; Socket wrench; Power battery lifting car
Disassembly method:	Release the fastener after discharge (please refer to professional disassembly materials)
Recycling methods:	Delivery of power battery recycling enterprise processing
Notes for disassembly:	Protective equipment (protective glasses, insulated gloves, etc.) should be worn for operation; before disassembly, make sure that the whole vehicle is not in a high-voltage state and unplug the battery from the positive or negative electrode.
Safety warning signs:	

5.1.3 Driver's airbag assembly

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

Steering wheel

Main materials:

ABS

Quantity:

1

Weight:

0.856kg

Fasteners:

Buckle

Number of fasteners:

3

Disassembly tools:

Flat screwdriver

Disassembly method:

After the airbag is detonated, use a screwdriver to loosen the bolts and remove the airbag module.

Recycling methods:

Modified recycling of waste plastics

Notes for disassembly:

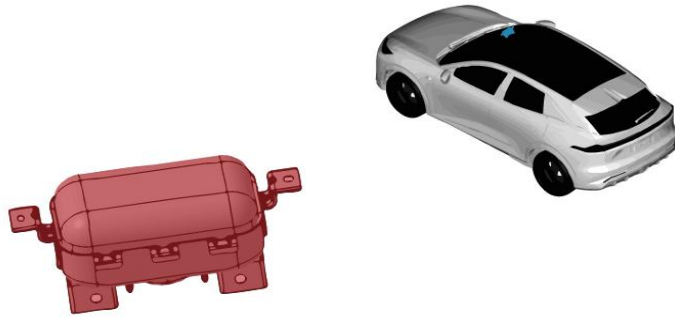
Wear protective equipment (protective glasses, gloves, etc.)

Safety warning signs:



5.1.4 Front passenger airbag assembly

Pictures of parts:

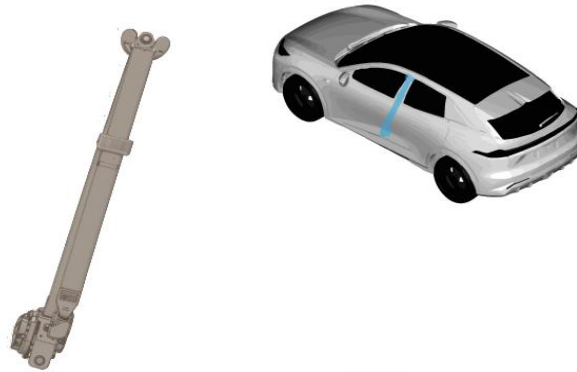


PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:	All
Location:	Inside the dashboard
Main materials:	Steel material, PA
Quantity:	1
Weight:	1.5kg
Fasteners:	Bolt
Number of fasteners:	4
Disassembly tools:	Torque wrench
Disassembly method:	After the airbag is detonated, use a torque wrench to loosen the bolts and remove the airbag module.
Recycling methods:	The detonated airbag can be broken, sorted and reused
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.); operate in a well-ventilated environment
Safety warning signs:	

5.1.5 Front seatbelt pretensioner



Pictures of parts:





PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:	All
Location:	B-pillar
Main materials:	Steel materials + PP
Quantity:	One on each side
Weight:	1.43kg
Fasteners:	Bolt,Buckle
Number of fasteners:	3
Disassembly tools:	Cross-head screwdriver,Socket wrench,Buckle screwdriver,Safety component detonator
Disassembly method:	After the airbag is detonated, use a socket wrench to loosen the bolts and remove the airbag module.
Recycling methods:	Mixing plastic separation and modification recycling
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.); operate in a well-ventilated environment
Safety warning signs:	

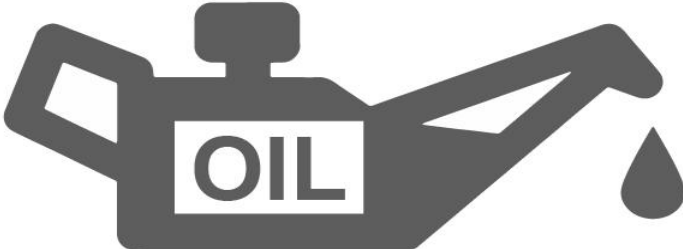

5.1.6 Refrigerant

Pictures of parts:	 A stylized snowflake logo with a white circle in the center containing the letters 'A/C' in black. The snowflake has six main branches, each with smaller sub-branches.
Applicable models:	All
Location:	In the air conditioning pipeline
Main materials:	Refrigerant (R1234yf)
Quantity:	1
Weight:	1kg
Fasteners:	/
Number of fasteners:	/
Disassembly tools:	Special filling and emission equipment for refrigerants
Disassembly method:	Emission using special discharge equipment for refrigerants
Recycling methods:	Delivery of refrigerant recycling qualified enterprises for processing
Notes for disassembly:	Operate in a well-ventilated environment
Safety warning signs:	 Three safety warning signs are displayed horizontally. From left to right: a blue circular sign with a white hand wearing a blue glove; a blue circular sign with a white face wearing blue safety glasses; and a yellow triangular warning sign with a black border, depicting a hand holding a refrigerant cylinder with a gas leak.

5.1.7 Brake fluid

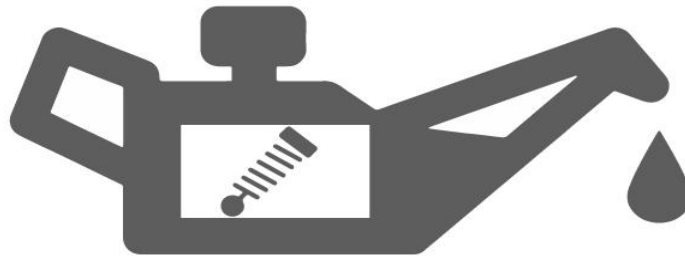
Pictures of parts:	
Applicable models:	All
Location:	In the pipeline of the brake system
Main materials:	Brake fluid
Quantity:	1
Weight:	0.85kg
Fasteners:	/
Number of fasteners:	/
Disassembly tools:	Flat screwdriver
Disassembly method:	Use a screwdriver to remove the pipeline and then discharge it.
Recycling methods:	Delivery of waste liquid recycling qualified enterprises for processing
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.)
Safety warning signs:	



5.1.8 Air conditioning compressor oil

Pictures of parts:	
Applicable models:	All
Location:	The controller end of the compressor
Main materials:	Lubricant
Quantity:	1
Weight:	0.25kg
Fasteners:	/
Number of fasteners:	/
Disassembly tools:	Flat screwdriver;
Disassembly method:	Use a screwdriver to remove the pipeline and then discharge it;
Recycling methods:	Delivery of waste liquid recycling qualified enterprises for processing;
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.)
Safety warning signs:	



5.1.9 Shock absorber oil

Pictures of parts:



Applicable models:	All
Location:	Inside the shock absorber cylinder
Main materials:	Lubricating oil
Quantity:	1
Weight:	1.12L
Fasteners:	/
Number of fasteners:	/
Disassembly tools:	Electric drill
Disassembly method:	Discharge after drilling with electric drill
Recycling methods:	Delivery of waste liquid recycling qualified enterprises for processing
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.)
Safety warning signs:	 










5.1.10 Wind window glass cleaning liquid

Pictures of parts:	
Applicable models:	All
Location:	In the washing tank
Main materials:	Cleanser
Quantity:	1
Weight:	1kg
Fasteners:	/
Number of fasteners:	/
Disassembly tools:	Flat screwdriver
Disassembly method:	Use a screwdriver to remove the pipeline and then discharge it.
Recycling methods:	Delivery of waste liquid recycling qualified enterprises for processing
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.)
Safety warning signs:	

5.1.11 Tires

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

Both sides of the front and rear axles of the car

Main materials:

Rubber, steel materials

Quantity:

4

Weight:

11.87kg

Fasteners:

Bolt

Number of fasteners:

20

Disassembly tools:

T-wrench; ratchet wrench, etc.

Disassembly method:

Use tire removal equipment such as tire removal machines to remove tires

Recycling methods:

Utilization of waste rubber recycled rubber

Notes for disassembly:

Wear protective equipment (protective glasses, gloves, etc.)

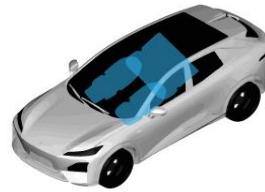
Safety warning signs:












5.2 Dismantling

5.2.1 Seat pad

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

Seat

Main materials:

PU

Quantity:

8

Weight:

8.2kg

Fasteners:

Buckle

Number of fasteners:

/

Disassembly tools:

Crowbar, Wire cutters

Disassembly method:

Use a screwdriver to loosen the bolts, release the clips, remove the seat cover, and take out the seat cushion.

Recycling methods:

Rigid polyurethane foam blending modification recycling

Notes for disassembly:

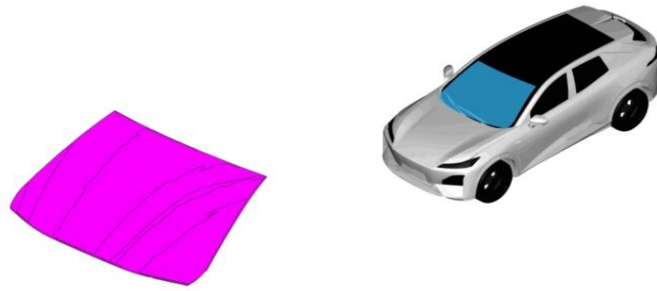
Wear protective equipment (protective glasses, gloves, etc.)










Safety warning signs:



5.2.2 Front windshield assembly

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

The upper part of the cab

Main materials:

Glass

Quantity:

1

Weight:

14.9kg

Fasteners:

Glass glue

Number of fasteners:

/

Disassembly tools:

Windshield disassembly tool set

Disassembly method:

Use the windshield to remove the steel wire to cut the surrounding adhesive material and remove the windshield.

Recycling methods:

Laminated glass roller pressure recovery technology

Notes for disassembly:

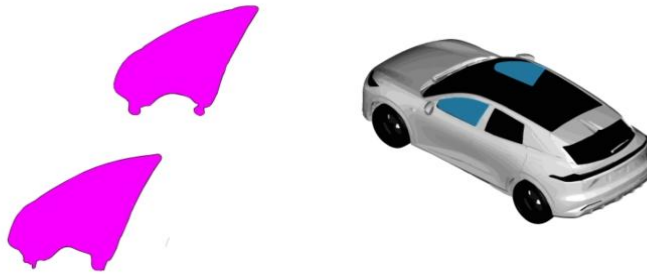
Wear protective equipment (protective glasses, gloves, etc.)

Safety warning signs:





5.2.3 Door glass assembly

Pictures of parts:

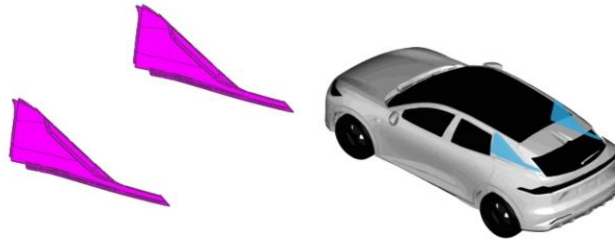











PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:	All
Location:	On the front door
Main materials:	Glass
Quantity:	2
Weight:	5.3kg
Fasteners:	Bolt
Number of fasteners:	8
Disassembly tools:	Slet wrench
Disassembly method:	Loosen the fasteners and remove them
Recycling methods:	Recycling of tempered glass float process
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.)
Safety warning signs:	 

5.2.4 Side glass assembly

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

On the D-pillar side panel

Main materials:

Glass, TPE, AL

Quantity:

2

Weight:

0.7kg

Fasteners:

Buckle

Number of fasteners:

3

Disassembly tools:

Windshield disassembly tool set

Disassembly method:

Use the windshield to remove the steel wire to cut the surrounding adhesive material and remove the windshield.

Recycling methods:

Tempered glass foaming technology

Notes for disassembly:

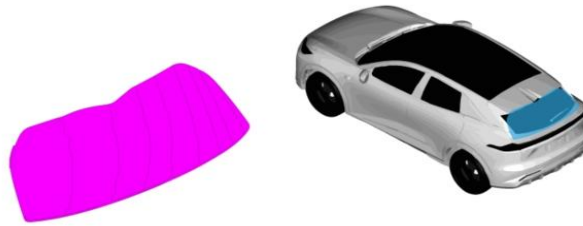
Wear protective equipment (protective glasses, gloves, etc.)










Safety warning signs:



5.2.5 Rear windshield assembly

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

Upper part of the back door

Main materials:

Glass

Quantity:

1

Weight:

5.0kg

Fasteners:

Glass glue

Number of fasteners:

/

Disassembly tools:

Windshield disassembly tool set

Disassembly method:

Use the windshield to remove the steel wire to cut the surrounding adhesive material and remove the windshield.

Recycling methods:

Recycled and reuse of tempered glass float process

Notes for disassembly:

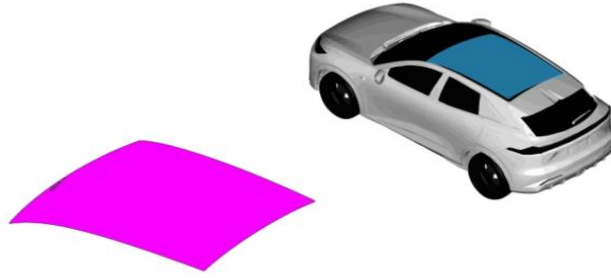
Wear protective equipment (protective glasses, gloves, etc.)










Safety warning signs:





5.2.6 Skylight

Pictures of parts:

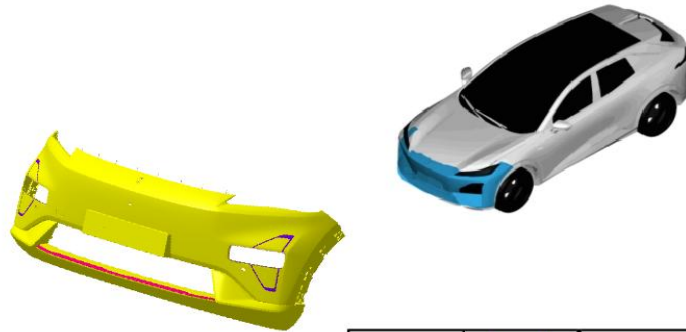











PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:	All
Location:	The top of the body
Main materials:	Glass
Quantity:	1
Weight:	21.8kg
Fasteners:	Glass glue
Number of fasteners:	/
Disassembly tools:	Windshield disassembly tool set
Disassembly method:	Use the windshield to remove the steel wire to cut the surrounding adhesive material and remove the windshield.
Recycling methods:	Laminated glass roll-press recycling technology
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.)
Safety warning signs:	 

5.2.7 Front bumper mask

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

The front end of the car body

Main materials:

PP,PMMA,ABS

Quantity:

1

Weight:

8.8kg

Fasteners:

Bolt,Screw,Buckle

Number of fasteners:

15

Disassembly tools:

Phillips screwdriver,Socket wrench

Disassembly method:

Loosen the fasteners and remove them

Recycling methods:

Clean and reuse waste plastic after breaking

Notes for disassembly:

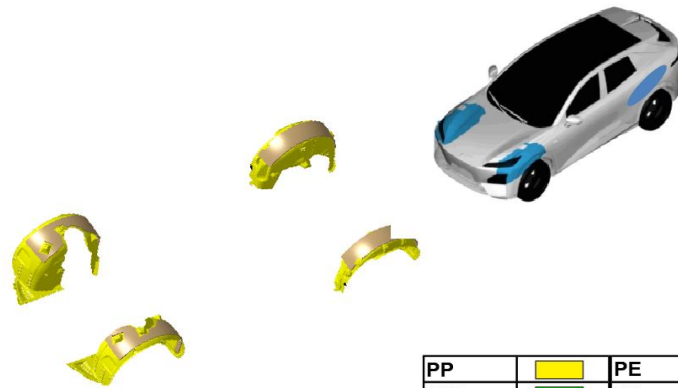
Wear protective equipment (protective glasses, gloves, etc.)










Safety warning signs:



5.2.8 Wheel shield

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

Above the front and rear wheels

Main materials:

PP

Quantity:

4

Weight:

5.6kg

Fasteners:

Screw

Number of fasteners:

70

Disassembly tools:

Phillips screwdriver, socket wrench, Buckle screwdriver

Disassembly method:

Loosen the fasteners and remove them

Recycling methods:

Clean and reuse waste plastic after breaking

Notes for disassembly:

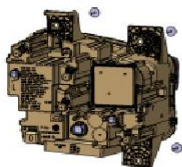
Wear protective equipment (protective glasses, gloves, etc.)

Safety warning signs:





5.2.9 Headlight assembly

Pictures of parts:

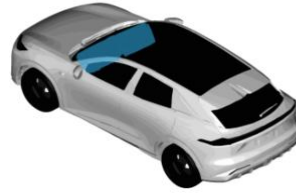
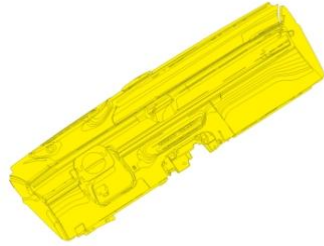











PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:	All
Location:	In front of the car
Main materials:	PC,PP+TD40
Quantity:	1
Weight:	2.95kg
Fasteners:	Bolt
Number of fasteners:	3
Disassembly tools:	Slet wrench
Disassembly method:	Loosen the fasteners and remove them
Recycling methods:	Mixed plastic crushing, separation and regeneration
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.)
Safety warning signs:	 

5.2.10 Dashboard Assembly

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

The dashboard in the cabin

Main materials:

PP+EPDM、PVC、PU、PP、PC+ABS、PA6、POM、PA6、HDPE

Quantity:

1

Weight:

13.6kg

Fasteners:

Bolt

Number of fasteners:

18

Disassembly tools:

Phillips screwdriver, Socket set

Disassembly method:

Loosen the fasteners and remove them

Recycling methods:

Mixing plastic separation and modification recycling

Notes for disassembly:

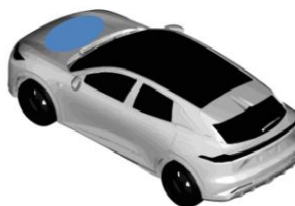
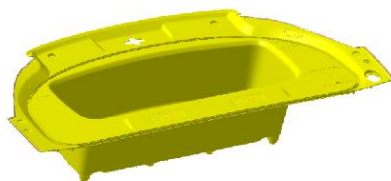
Wear protective equipment (protective glasses, gloves, etc.)










Safety warning signs:



5.2.11 Cabin storage compartment

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

Front

Main materials:

PP

Quantity:

1

Weight:

6.3kg

Fasteners:

Bolt,Screw,Buckle

Number of fasteners:

27

Disassembly tools:

Hex wrench,Buckle screwdriver,Phillips screwdriver

Disassembly method:

Loosen the fasteners and remove them

Recycling methods:

Mixing plastic separation and modification recycling

Notes for disassembly:

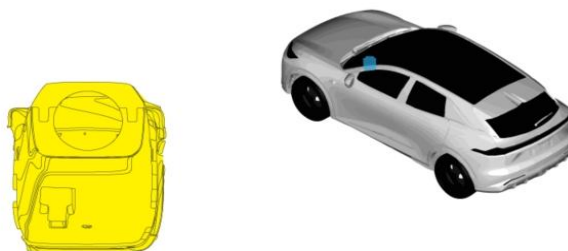
Wear protective equipment (protective glasses, gloves, etc.)

Safety warning signs:



5.2.12 Steering column shield

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

The main driver's seat in the cabin

Main materials:

PP+EPDM-TD10, PVC

Quantity:

1

Weight:

0.5kg

Fasteners:

Screw

Number of fasteners:

3

Disassembly tools:

Buckle screwdriver

Disassembly method:

Loosen the fasteners and remove them

Recycling methods:

Modified recycling of waste plastics

Notes for disassembly:

Wear protective equipment (protective glasses, gloves, etc.)

Safety warning signs:



5.2.13 Rear combination lamp assembly

Pictures of parts:

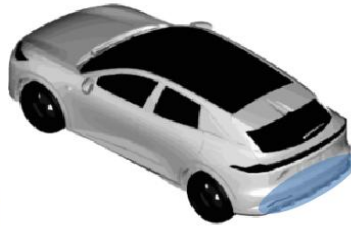
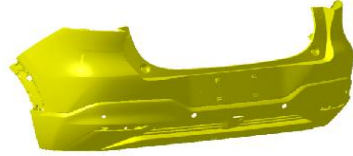


PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:	All
Location:	Rear
Main materials:	PMMA+ABS
Quantity:	1
Weight:	2.3kg
Fasteners:	Nut,Bolt
Number of fasteners:	7
Disassembly tools:	Torque wrench
Disassembly method:	Loosen the fasteners and remove them
Recycling methods:	Mixing plastic separation and modification recycling
Notes for disassembly:	Wear protective equipment (protective glasses, gloves, etc.)
Safety warning signs:	

5.2.14 Rear Bumper Cover

Pictures of parts:



PP		PE	
PVC		PA	
ABS		PMMA	
PUR		GLASS	
OTHER			

Applicable models:

All

Location:

Rear

Main materials:

PP

Quantity:

1

Weight:

7.2kg

Fasteners:

Bolt,Screw,Buckle

Number of fasteners:

20

Disassembly tools:

Socket wrench,Phillips screwdriver

Disassembly method:

Loosen the fasteners and remove them

Recycling methods:

Mixing plastic separation and modification recycling

Notes for disassembly:

Wear protective equipment (protective glasses, gloves, etc.)

Safety warning signs:

