

Warranty and Maintenance Manual-XPENG G6

Warranty Card			
Customer Info		Vehicle Info	
Owner's Name:		Vehicle Model:	G6
Phone Number:		VIN:	
Delivery Date:		Service Center:	
Owner's Signature:		(Stamp)	
Date of Signing:		Date of Stamping:	

This warranty card is kept by the customer.

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1. Limited Warranty

Scope of Warranty

This Warranty and Maintenance Manual (hereinafter referred to as the “Manual”) applies to the XPENG series models purchased by customers in the European Union. During the vehicle Limited Warranty Period as defined below, XPENG European Holding B.V. registered at Hoogoorddreef 11, 1101 BA, Amsterdam, under the registration number: 862200623 (hereinafter referred to as “XPENG”) warrants the vehicle against quality defects in design, workmanship or raw materials, and shall bear the spare parts costs and maintenance man-hour costs arising therefrom (except for the items specified in the Warranty Disclaimer). The intention of this Manual is to state the scope of the warranties. In the event any of the warranties provided in this Manual should be limited or deviated from what otherwise is required according to applicable local (consumer) law, of the country where the consumer bought its vehicle, the latter shall prevail. For clarity, nothing in this Manual shall limit a consumer’s statutory rights pursuant to the local laws (as applicable). Instead of invoking the warranties described in this Manual, it is also possible to invoke the warranty that is applicable under the local consumer law of the country where the consumer bought its vehicle.

Warranty Period

This Manual applies to vehicles registered on or after the 1 January 2023. The key parts, consumable parts, whole vehicle parts and special warranty items are covered by different warranty periods as described in this Manual. For more details, please refer to the table below:

Category	Content	Limited Warranty Period
Warranty Period for Key Parts	Traction battery and battery management system (BMS), drive motor and intelligent power unit (IPU)	96 months or 160,000 km
Warranty Period for Consumable Parts	Wiper blades	6 months or 5,000 km
	12V battery, smart key batteries, light bulbs, fuses, air conditioning filter elements, brake pads, and tires	12 months or 20,000 km
Warranty Period for Whole Vehicle (Basic warranty)	Original whole-vehicle parts other than key parts, consumable parts and special warranty items	60 months or 120,000 km

Special Warranty Items	Paint	36 months with unlimited mileage
	Body Rust	144 months with unlimited mileage.

Note:

The traction battery warranty covers a minimum capacity for a period of 96 months or 160,000 km from the date of first registration, whichever comes first. This warranty covers repairs needed to return the battery capacity to at least 70% of the original battery capacity.

Body Rust: The limited warranty for body rust only covers rust perforations (holes that pass through the body panels from the inside out due to defects in materials or workmanship);

The above-mentioned warranty periods for key parts, consumable parts, whole vehicle and special warranty items start from the date of delivery and end at the time or mileage limit, whichever occurs first. If there is a separate agreement on the warranty periods for accessories or other products, the warranty periods specifically agreed for such accessories or products shall prevail.

It is advisable to have your vehicle inspected and maintained at a Service Center designated by XPENG in accordance with the requirements and frequency specified in this Manual, in order to keep your vehicle in optimum condition.

Transfer of Ownership

The vehicle limited warranty set forth in this Manual shall not be subject to change by the transfer of ownership of the vehicle, but the vehicle limited warranty period shall still start on the date of the first delivery to the original owner

2. Limited Warranty for Replaced Parts

The original parts (parts supplied by XPENG or third-party suppliers designated by XPENG for new vehicle repair and maintenance as a part of the vehicle) that are recommended by XPENG for customers to maintain the safety and performance of the vehicle and replaced at a facility of a Service Center authorized by XPENG (hereinafter referred to as a "Service Center") are covered by the limited warranty service for parts as described below. During the limited warranty period for parts, XPENG warrants the covered parts of the vehicle against quality defects in design, workmanship or raw materials during normal use. Replaced parts are covered by different warranty periods, depending on the circumstances of the parts replacement, including:

Original parts replaced due to non-quality issues

Original parts that are replaced at a Service Center due to any reason other than quality defects in design, workmanship or raw materials are covered by a limited warranty period of 12 months or 20,000 km for the vehicle mileage (whichever occurs first) from the date of completion of the repair by the Service Center, wiper blades are covered by a limited warranty period of 6 months or 5,000 km for the vehicle mileage (whichever occurs first) from the date of completion of the repair by the Service Center.

Original parts replaced due to quality issues

Original parts that are replaced by a Service Center for free due to quality defects in design, workmanship or raw materials are warranted for the remaining limited warranty period as those replaced defective parts, and will not be warranted any more as the remaining limited warranty period of those replaced parts expires.

3. Warranty Disclaimer

Any malfunctions or incidental damages resulting from the following situations are not covered by the warranty described in this Manual:

Systems or parts that are not allowed to be modified, adjusted, or disassembled according to the user manual of your vehicle, but are damaged due to the customer's self-modification, adjustment, or disassembly

Damages caused by the customer's improper handling of the vehicle in the event of quality issues.

Force majeure or factors beyond the control of XPENG:

- Damage or indirect damage caused by accidents, human factors, environmental factors such as natural disasters, or other force majeure factors including, but not limited to, exposure to sunlight, airborne chemicals, tree sap, animal or insect droppings, road debris (including stone chips), industry fallout, rail dust, salt, hail, floods, acid rain, fire, water, contamination, lightning, explosion, earthquake, and windstorms;
- Product malfunctions caused by abnormal operating conditions (such as decreased remote control range, and remote control failure resulting from environmental electromagnetic interference);
- Malfunctions that occur outside of the warranty period as described in this Manual;
- Damages to the traction battery caused by normal capacity fading, man-made or accidental collision, water, etc.

XPENG shall not be liable for the following costs incurred for:

- Any repair, alteration or modification of the vehicle, or the installation or use of fluids, parts or accessories, made by a person or facility not authorized or certified to do so.
- Improper repairs or maintenance work (other than that carried out at a Service Center or repair facility authorized by XPENG), including use of fluids, parts or accessories other than those specified in the customer's owner documentation.
- Improper towing of the vehicle.
- Improper winch procedures.
- Theft, vandalism, or riot.
- Driving over uneven, rough, damaged or hazardous surfaces, including but not limited to, curbs, potholes, unfinished roads, debris, or other obstacles, or in competition, racing or autocross or for any other purposes for which the vehicle is not designed.
- Overloading the vehicle.
- Using the vehicle as a stationary power source.
- Economic and time losses caused by the inability to use the vehicle;
- Vehicle storage or rental fees;

- Accommodation, meals, and other travel expenses.

Damages caused by the customer's failure to properly clean, maintain, store, use, or repair the vehicle in accordance with the user manual of the vehicle or product instructions. Such as:

- Improper maintenance or the use of lubricants or additives other than those we recommend in the user manual;
- The use of non-original spare parts (original spare parts: supplied or agreed by XPENG);
- Maintenance that is not completed within the time and mileage recommendations, as those described in this Manual and the user manual,
- Improper use and maintenance of the vehicle. If the vehicle has been used in severe driving conditions without following the additional maintenance steps specified in the user manual.
- Cannot provide evidence that you have properly maintained your vehicle, such as vehicle maintenance records and receipts;

The following is not covered by the limited warranty:

- Corrosion caused by defects in materials or workmanship not manufactured or supplied by XPENG, resulting in perforated body panel or chassis from the inside out;
- Perforated body panel or chassis from the outside in caused by surface or cosmetic corrosion caused by stone chips or scratches;
- Corrosion caused by accidents, abuse, negligence, and/or improper operation;
- Damages caused by vehicle maintenance or operation, installation of accessories, exposure to chemical substances, natural disasters, fire, or improper storage.
- Normal deterioration.
 - Normal wear, tear or deterioration such as discoloration, fading or deformation.
 - Surface corrosion on any part other than the sheet metal panels on the exterior body.
 - Gradual wearing of mechanical components in proportion to mileage.
 - The adjustment of doors, bonnets and tailgates.
- Normal maintenance

XPENG will not cover costs for normal maintenance services described under 'Regular Maintenance' in this Manual and 'maintenance' in the user manual, such as:

- inspection
- cleaning and polishing
- minor adjustments
- lubrication
- oil/fluid changes
- replacement of filters

- anti-freeze coolant refill
- wheel alignment and tyre rotation

unless these are carried out as part of a repair under warranty according to this Manual.

Vehicle categorized as "total loss" or "insurance write off"

XPENG will not undertake warranty obligations for vehicles categorised as "total loss" or "insurance write off". Other damages to vehicle not caused by vehicle quality issue.

4. Dispute Resolution

In the event that any disputes, differences or controversies arise between the customer and XPENG related to this Manual, XPENG will explore reasonable possibilities for an amicable settlement.

If a dispute or claim cannot be resolved amicably, either XPENG or the customer may submit their claim to the competent court.

5. Warranty Precautions

Warranty Certificates

- If you have lost this Manual, please contact XPENG for a replacement in time. After the replacement, you will continue to enjoy relevant warranty services.
- The vehicle sales invoice, this Manual and repair orders and invoices are important certificate documents for you to enjoy the warranty as described in this Manual. XPENG reminds you to keep them properly to prevent loss or damage.

Repair and Maintenance Records

If repair or maintenance services are performed on your vehicle, you should keep the relevant documents such as the repair order and invoice, which will be an important evidence to prove that your vehicle has been subject to relevant repair or maintenance services in accordance with the user manual of your vehicle or this Manual.

Maintenance Time

When having your vehicle repaired or maintained at a Service Center, a reasonable and sufficient time has to be allowed for the Service Center to complete the repair or maintenance services. The Service Center will repair and return your vehicle to you as soon as possible.

Maintenance Plan

While complying with relevant laws and regulations, XPENG and the Service Center are entitled to develop a specific repair or parts replacement plan pursuant to technical requirements and the actual situation of your vehicle. Parts replaced under warranty belong to XPENG.

Product Change

XPENG reserves the right to make design changes to the vehicles it produces, and is not obliged to implement any identical or similar changes to any sold vehicle.

Recall

In the event of product recall, XPENG will provide a reasonable maintenance plan based on the product defects. Under normal circumstances, the defects can be resolved by repairing or replacing parts. In order to eliminate the defects of the vehicle as soon as possible and to ensure that you can drive your vehicle safely, please actively cooperate with XPENG and the Service Center to accept relevant repair or maintenance services after receiving the recall notice or being informed of the recall information through official channels.

Miscellaneous

Every XPENG vehicle is a highly smart electric vehicle involving many advanced technologies. Therefore we strongly advise you to carefully read the user manual of your vehicle and this Manual before using your vehicle, and drive and maintain your vehicle as suggested. You should inform a Service Center in advance before having any other party than a Service Center perform emergency maintenance on your vehicle.

6. Necessity of Maintenance

- Routine maintenance for your vehicle is necessary to ensure proper use and pleasant driving experience, improve the efficiency and reliability of vehicle, and reduce potential maintenance costs.
- For the daily maintenance services that can be performed by yourself as clearly specified in the user manual of your vehicle, you can complete those services in accordance with the relevant instructions in the user manual.
- In view of the system complexity of your vehicle and strict after-sales service requirements specified in national laws and regulations for electric vehicles, XPENG hereby strongly recommends you have your vehicle regularly maintained at a Service Center.
- If you have any questions about how to maintain your vehicle, please contact a Service Center directly.

7. Daily Maintenance, Precautions and Recommended Use

- The range of your vehicle is related to the level of discharge. To avoid the performance degradation of the traction battery caused by discharging the traction battery too much, XPENG recommends you to recharge the battery in time and ultimately when the low battery warning light on your CID is on.
- The actual range of your vehicle will decrease as the age of the traction battery increases.
- The range of your vehicle depend on various conditions such as weather conditions, load factor, driving style and the use of accessories such as heating or air conditioning.
- At extreme temperatures (both hot or cold) and low power levels, sluggish acceleration or lack of power may occur due to the characteristics of the traction battery.

- Have your vehicle maintained regularly.
- Keep the tire pressure at the level that is advised in the user manual of your vehicle.
- Try to avoid using your vehicle in hot or cold climates.
- Do not leave your vehicle parked for too long after you've finished using it during the winter, and charge it as soon as possible.
- Remove unnecessary items to reduce the load factor on your vehicle.
- When necessary, turn off high-power electrical appliances such as air conditioner or adjust the heating/cooling temperature to reduce the energy consumed and increase the range.
- At high speeds, close the windows to reduce air resistance and power consumption.
- Keep your driving speed steady.
- When accelerating, press the accelerator pedal gently.
- When decelerating, release the accelerator pedal. If emergency braking is not necessary, do not press the brake pedal or gently press it to obtain as much braking energy recovered as possible and increase the range.

8. Regular Maintenance

Have your vehicle maintained at an interval of 12 months or 20,000 km, and perform the second column of maintenance items every 24 months or 40,000 km (e.g. 24 months or 40,000 km, 48 months or 80,000 km, 72 months or 120,000 km). The coolant is recommended to be replaced every 72 months

System	Inspection Item	Every 12 Months or 20,000 km	Every 24 Months or 40,000 km
		Visual Inspection (V) Adjust (A) Clean (C) Replace (R) Supplement (S) Lubricate (L) Tighten (T)	
Traction Battery System	Traction battery appearance	V	V
	Odor inspection	V	V
	High voltage connector and wiring harness	V	V
	Low voltage connector and wiring harness	V	V
	bolt torque	V+T	V+T
	Balance valve/breather valve	V	V
	repair switch	-	V
Motor System	Front/rear motor appearance	V	V
	Connectors & wiring harness	V	V
	Temperature control pipeline	V	V
	Support rubber and bolt torque	V	T

System	Inspection Item	Every 12 Months or 20,000 km	Every 24 Months or 40,000 km
		Visual Inspection (V) Adjust (A) Clean (C) Replace (R) Supplement (S) Lubricate (L) Tighten (T)	
Electrical Control System	Visual inspection of motor compartment	V	V
	Motor compartment HV connector and wiring harness	V	V
	Motor compartment LV connector and wiring harness	V	V
	Super charging/ Low charging port and wiring harness	V	V
	12V-Battery	V	V
	Lighting and signals	V	V
	Interior lights and ambient lights	V	V
	Multifunction steering wheel	V	V
	XPilot system	V	V
	Seat memory and	V	V
	adjustment		

	Door opening/closing function	V	V
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System	Inspection Item	Every 12 Months or 20,000 km	Every 24 Months or 40,000 km
		Visual Inspection (V) Adjust (A) Clean (C) Replace (R) Supplement (S) Lubricate (L) Tighten (T)	
Electrical Control System	Window functions	V	V
	Power supply and USB	V	V
	Horns	V	V
	CID functions	V	V
	Passive entry and passive start (PEPS)	V	V
	Remote door lock	V	V
	Interior and exterior rear-view mirrors	V	V
	Instrument information and faults	V	V
	Vehicle software version	V + A	V + A
Braking System	EPB	V	V
	Brake caliper and cylinder	V	V
	Brake fluid	V	R
	Brake lines	V	V
	brake pedal travel	V	V

System	Inspection Item	Every 12 Months or 20,000 km	Every 24 Months or 40,000 km
		Visual Inspection (V) Adjust (A) Clean (C) Replace (R) Supplement (S) Lubricate (L) Tighten (T)	
Braking System	Ibooster and connectors	V	V
	Brake disc	V	V
	Front and rear brake pads	V	V
Steering System	Free play of steering wheel	V	V
	Steering column adjustment	V	V
	Steering motor	V	V
	Steering shaft and dust cover	V	V
	Tie rod ball joint and dust cover	V	V
	EPS function	V	V
Body System	Front and rear windshields, door glass and sunroof glass	V	V

	Washing wipers	V	V
	Washing fluid	S	S
	Seats and slider tracks	V	V
	Door locks, hinges and stoppers	V + L	V + L
	Hood lock, trunk lid latch and hinges	V + L	V + L
System	Inspection Item	Every 12 Months or 20,000 km	Every 24 Months or 40,000 km
		Visual Inspection (V) Adjust (A) Clean (C) Replace (R) Supplement (S) Lubricate (L) Tighten (T)	
Body System	Struts for hood and trunk lid	V	V
	Childproof locks	V	V
	Seat belts and seat belts reminders	V	V
	Seals and weatherstripping for doors	V	V
	Interiors	V	V
	Body rust condition	V	V
Drive train &	Reducer appearance	V	V
	Reducer oil (replace every 48 months/80,000 km)	V	V

Suspension System	Drive shaft and dust cover	V	V
	Tires, rims and torques	V + T	V + T
	Tire rotation (if applicable)	V + A + T	V + A + T
	Tire eccentric wear (alignment adjustment if necessary)	V	V
	Wheel bearings	V	V
	Front and rear suspension	V	V
	Shock absorbers and springs	V	V
System	Inspection Item	Every 12 Months or 20,000 km	Every 24 Months or 40,000 km
		Visual Inspection (V) Adjust (A) Clean (C) Replace (R) Supplement (S) Lubricate (L) Tighten (T)	
Drive train & Suspension System	Chassis screw torque	V + T	V + T
Cooling System	Coolant (replace every 72 months/120,000 km)	V	V
	Cooling pipeline	V	V
	Water pump	V	V

	Radiator	V + C	V + C
	Shutter	V	V
	Cooling fan	V	V
A/C System	A/C function inspection	V	V
	A/C evaporator drain line	V	V
	Compressor	V	V
	A/C pipeline	V	V
	A/C condenser	V + C	V + C
	PTC wiring harness	V	V
System	Inspection Item	Every 12 Months or 20,000 km	Every 24 Months or 40,000 km
		Visual Inspection (V) Adjust (A) Clean (C) Replace (R) Supplement (S) Lubricate (L) Tighten (T)	
Recommended Maintenance Items (as needed)			
/	Wiper blades (every 3 months or 5000 km)	R	R
	Tire pressure and eccentric wear check (every 3 months or 5000 km)	V + A	V + A
Air Conditioner	A/C filter	C	R
	It is suggested that replacement period shall not exceed 2 year,		

The following maintenance services are determined based on normal driving conditions. If you often drive under harsh conditions, please have your vehicle maintained more frequently. For more details, please contact XPENG or a Service Center when you are:

- Driving in a highly dusty environment.
- Driving at extremely cold (below 0 °C) or high temperatures (above 40 °C).
- Driving in wet conditions or wading in water frequently.
- Driving on roads with a lot of salt or corrosive materials.
- Braking frequently or driving in mountainous areas.
- Engaged in operational activities, or your vehicle is often used for special purposes such as high-load use.
- Engaged in racing or competitive activities.
- Are planning a retrofitting or making modifications not authorized by XPENG.

9. Vehicle Maintenance Log

Maintenance Registration Form			
Date		Mileage	
Maintenance Engineer		Service Center Stamp	
Next Maintenance Due:			
Next Maintenance Mileage:			
Customer Signature:			

Maintenance Registration Form			
Date		Mileage	
Maintenance Engineer		Service Center Stamp	

Next Maintenance Due:	
Next Maintenance Mileage:	
Customer Signature:	

Maintenance Registration Form			
Date		Mileage	
Maintenance Engineer		Service Center Stamp	
Next Maintenance Due:			
Next Maintenance Mileage:			
Customer Signature:			

Maintenance Registration Form			
Date		Mileage	
Maintenance Engineer		Service Center Stamp	
Next Maintenance Due:			
Next Maintenance Mileage:			
Customer Signature:			

Maintenance Registration Form			
Date		Mileage	
Maintenance Engineer		Service Center Stamp	
Next Maintenance Due:			
Next Maintenance Mileage:			
Customer Signature:			

Maintenance Registration Form			
Date		Mileage	
Maintenance Engineer		Service Center	
Next Maintenance Due:			
Next Maintenance Mileage:			
Customer Signature:			

Maintenance Registration Form			
Date		Mileage	

Maintenance Engineer		Service Center Stamp	
Next Maintenance Due:			
Next Maintenance Mileage:			
Customer Signature:			

Maintenance Registration Form			
Date		Mileage	
Maintenance Engineer		Service Center Stamp	
Next Maintenance Due:			
Next Maintenance Mileage:			
Customer Signature:			

Maintenance Registration Form			
Date		Mileage	
Maintenance Engineer		Service Center Stamp	
Next Maintenance Due:			

Next Maintenance Mileage:	
Customer Signature:	

Maintenance Registration Form			
Date		Mileage	
Maintenance Engineer		Service Center Stamp	
Next Maintenance Due:			
Next Maintenance Mileage:			
Customer Signature:			

10. Limitation of Liability

To the maximum extent permissible under local applicable law, XPENG hereby disclaims any and all indirect, incidental, special and consequential damages arising out of or relating to the customer's vehicle, including, but not limited to, transportation to and from a Service Center , loss of vehicle value, loss of time, loss of income, loss of use, loss of personal or commercial property, inconvenience or aggravation, emotional distress or harm, commercial loss (including but not limited to lost profits or earnings), towing charges, bus fares, vehicle rental, service call charges, gasoline expenses, lodging expenses, damage to tow vehicle, and incidental charges such as telephone calls, facsimile transmissions, and mailing expenses. To the maximum extent permissible under local applicable law, XPENG will not be liable for any direct damages in an amount that exceeds the fair market value of the vehicle at the time of the claim.

The above limitations and exclusion will apply whether or not the customer's claim is in contract, tort (including negligence and gross negligence), breach of warranty or condition, misrepresentation (whether negligent for otherwise) or otherwise at law or in equity, even if XPENG has been advised of the possibility of such damages or such damages are reasonably foreseeable.

Nothing in this Manual shall exclude, or in any way limit XPENG the liability of XPENG for death or personal injury, solely and directly caused by XPENG negligence of XPENG or that of its employees, agents, or subcontractors (as applicable), fraud or fraudulent misrepresentation, or willful misconduct.

11. Modifications and Waivers

No person or entity, including, but not limited to, an XPENG employee or authorized representative, can modify or waive any part of this Manual.

12. Routine Maintenance

Vehicle Exterior

Doors and front hood

Check that all doors, tailgate, trunk lid and front hood operate smoothly. Also ensure that all latches are securely locked. Lubricate if necessary. Ensure that when the first latch of the front hood is released, the second latch prevents the hood from opening. Check lubrication frequently when driving on roads in areas where road antifreeze salt or other corrosive substances are used.

Lights

Clean the headlight regularly. Ensure that the headlights, brake lights, taillights, turning lamps and other lights are working properly and are securely mounted. Also check the alignment of the headlights.

Wheel nuts/bolts

Check for loose or missing nuts/bolts. Tighten nuts/bolts if necessary.

Tire rotation

With two-wheel drive (2WD) and the same size of front and rear tires, periodically check the condition of the tires to determine if they

are rotated. Tires marked with directional indicators can only be rotated between the front and rear. After the tire rotation is completed, ensure that the direction indicator is pointing in the direction of wheel rotation.

With four-wheel drive (4WD) and the same size of front and rear tires, periodically check the condition of the tires to determine if they

are rotated. Tires marked with directional indicators can only be rotated between the front and rear. After the tire rotation is completed, ensure that the direction indicator is pointing in the direction of wheel rotation.

Tire should not be rotated if the front and rear tires are different sizes. The timing of tire rotation may vary depending on your driving habits and road conditions.

Fluid leak

Check under the vehicle for leaking oil, water and other fluids.

Tips

If smell fluids or find any leaks, find the cause and fix it.

Wheel alignment and balancing

A wheel alignment may be necessary if the vehicle runs to one side when driving on a straight and flat surface, or if uneven or unusual tire wear is noted. Wheel balancing may be necessary if the steering wheel or seat vibrates at normal highway speeds.

Windscreen

Clean the windscreen regularly. Check the windscreen for cracks or other damage. Repair if necessary.

Wiper blade

If the wiper blades can't clean the windscreen cleanly, check them for wear or cracks. Replace them if necessary.

13. Chassis

Steering drive mechanism and steering gear

- a. Check steering wheel free travel.
- b. Check the steering drive mechanism for looseness or damage.
 - Check and ensure that there is no any gap in the cross tie rod connector.
 - Check and ensure that the dust seal and dust boot are not damaged.
 - Check and ensure that the dust boot clamps are not loose.
 - Check and ensure that there is no damage to the steering gear shell.

Drive Shaft Dust Sleeve

Check drive shaft sleeve for loose clamps, cracks, lubricating grease leaks, distortion or damage.

Drive Axle

Visually check the drive axle for fluid leaks. If fluid is leaking, find cause and repair.

Front and Rear Suspension

Check front and rear suspension alignment parameters.

14. Body

Check the body

- a. Check the outer plate of body for dents, scratches or rust.
- b. Check the bottom of the body for rust or damage. If necessary, replace damaged parts or repair damaged areas.

Check Bolts and Nuts on the Chassis and Body

- a. If necessary, tighten the bolts and nuts on the following chassis parts.
 - Front axle and suspension
 - Rear axle and suspension
 - Transmission system
 - Brake System
 - Electric drive system suspension

- Other chassis components
- b. If necessary, tighten the bolts and nuts on the following body parts.
 - Seat
 - Seat belt system
 - Doors and front hood
 - Body support
 - Other body parts

Road test

- a. Check the motor and chassis for abnormal noise.
- b. Check and ensure that the vehicle does not run to a specific side.
- c. Check and ensure that the brake works properly without dragging.
- d. Check the parking brake.

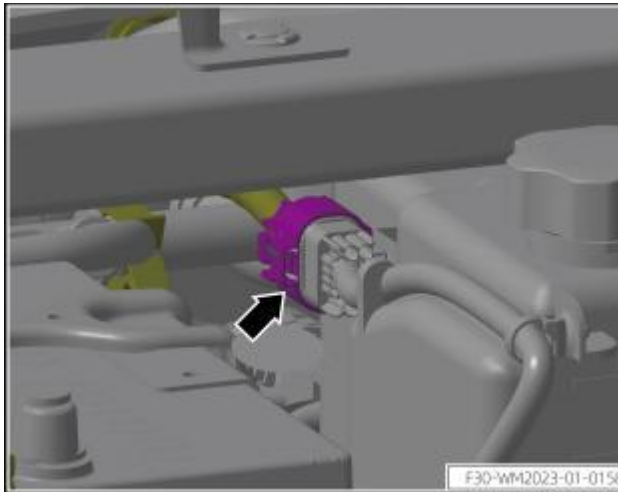
15. Coolant

Coolant - Draining

Caution

- Be sure to drain the coolant when it is cold.
- Do not spill the coolant on surrounding parts.

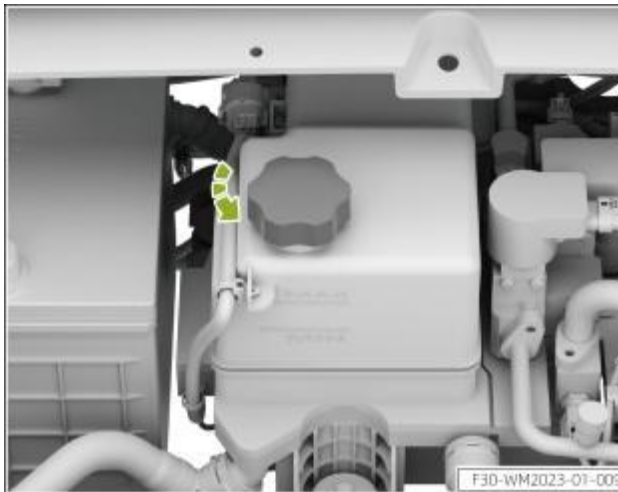
Draining procedure



- 1 Remove the front compartment trim panel assembly with reference to Front Compartment Trim Panel Assembly - Removal.
- 2 Disconnect the battery negative terminal with reference to Battery Negative Terminal - Disconnection.
- 3 Disconnect 1 wiring harness connector of the thermal management integration module.

Caution

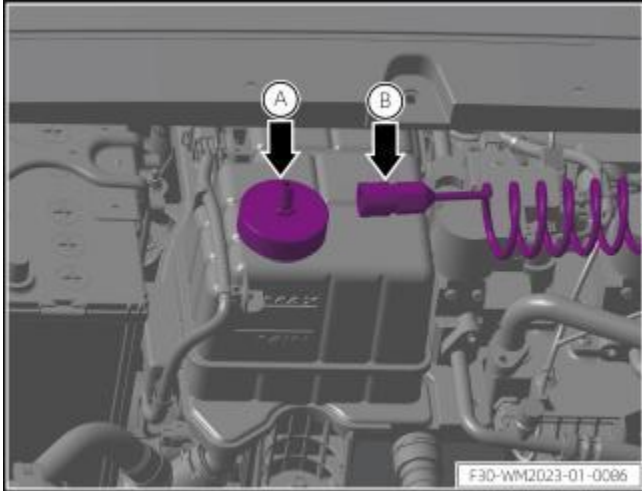
To avoid dry spin damage to the pump, disconnect the main harness connector from the Thermal Management Integration Module before repairing.



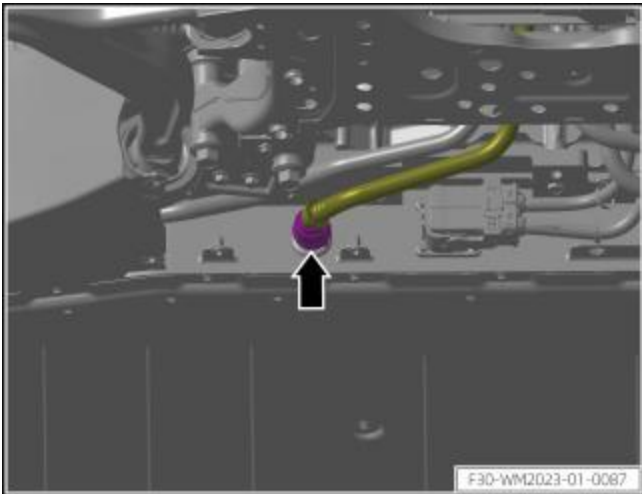
- 4 Rotate the thermal management integration module lid counterclockwise and remove the thermal management integration module lid.

Caution

Wait for the coolant to completely cool before opening the reservoir cap.



- 5 Install the expansion tank adapter A, connect one end of the blowing fixture B to the expansion tank adapter A, and the other end to the workshop air source, and keep the blowing fixture off.
- 6 Lift the vehicle with reference to Vehicle Lifting and Supporting Points.
- 7 Remove the front compartment bottom guard assembly-front with reference to Front Compartment Bottom Guard Assembly- Front - Removal.



Remove 1 pin and disconnect the battery water pump outlet pipe from the traction battery assembly.

Caution

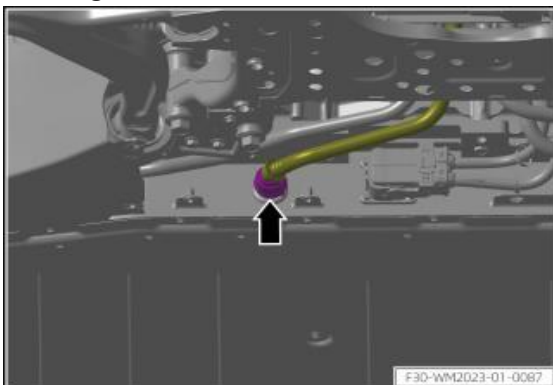
- Place the coolant collection container under the water pipe.
- When the coolant cannot be completely discharged, turn on the vacuum purge switch and use an air pressure not exceeding 0.2MPa to pressurize the thermal management integrated module to completely discharge the coolant.

Coolant - Adding

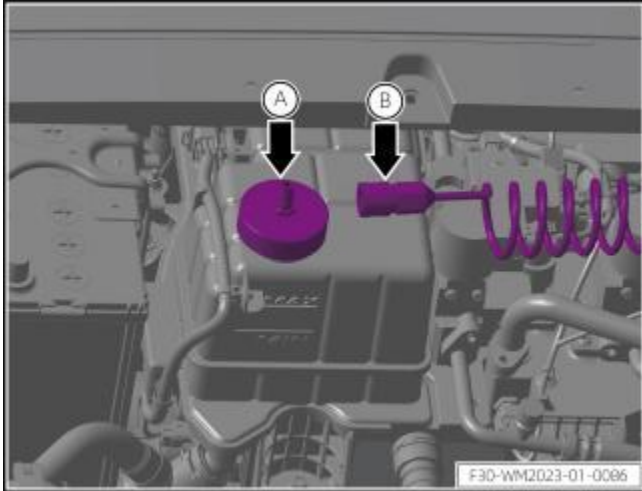
Caution

Do not spill the coolant on surrounding parts.

Adding Procedure



- 1 Connect the battery water pump water outlet pipe to the traction battery assembly and install 1 pin.
- 2 Install the front compartment bottom guard assembly-front with reference to Front Compartment Bottom Guard Assembly - Front - Installation.
- 3 Lower the vehicle.



- 4 Remove the expansion tank adapter A and remove the blowing fixture B.



- 5 Add coolant until the coolant level is between the MIN mark and the MAX mark. If it is below the MIN mark, add coolant approved by XPENG in a timely manner.

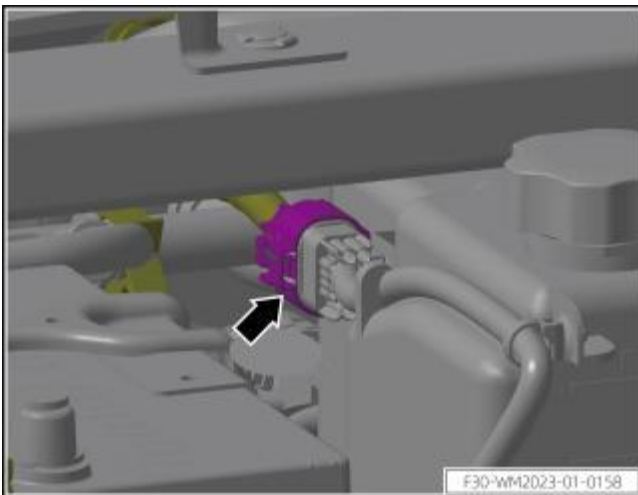
Caution

During the filling, the coolant level shall be kept at the MAX line.

Caution

After filling is completed, let it sit for 5 minutes before performing subsequent operations.

- 6 Connect the battery negative terminal with reference to Battery Negative Terminal - Connection.



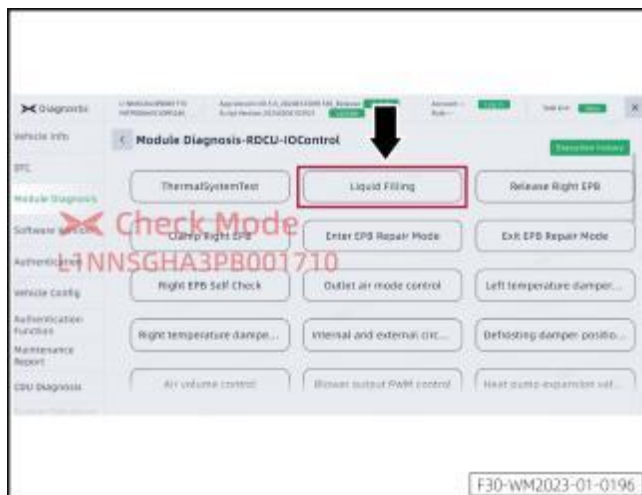
- 7 Connect 1 wiring harness connector to the thermal management integration module.
- 8 Enter the IVDS with reference to Login and Exiting.



9 Select the "RDCU" to enter.



10 Select "Action Test" to enter.



11 Select "Adding Mode" to enter.



12 Confirm to execute adding mode.



13 Select "Manual coolant adding mode" for coolant adding.



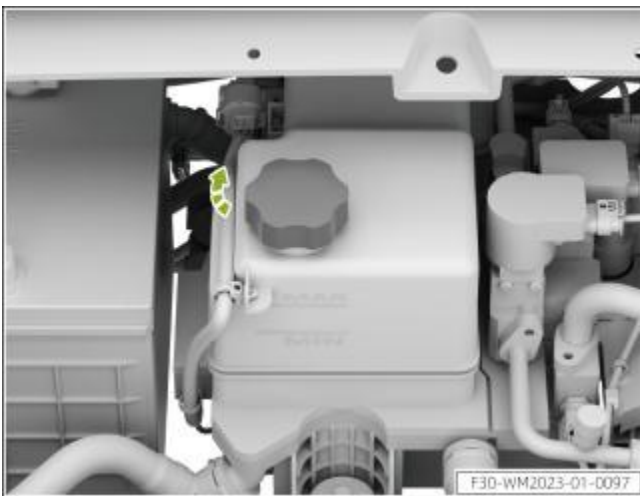
14 The system will enter the bleeding procedure for no less than 1 h and wait for the progress bar to reach 100%.

Caution

- The bleeding time shall be no less than 1 hour, and it will be completed when the progress bar reaches 100%.
- During bleeding, promptly check whether the coolant level is at the MAX line. If not, add coolant at any time.



- 15 The interface will prompt that all statuses are OK, indicating that the coolant adding is completed.
- 16 Exit the IVDS with reference to Login and Exiting.



- 17 Rotate clockwise to install the tank cover of thermal management integration module.
- 18 Install the front compartment trim panel assembly with reference to Front Compartment Trim Panel Assembly - Installation.

Video for Coolant-Replacement

Brake fluid

Draining procedure

Caution

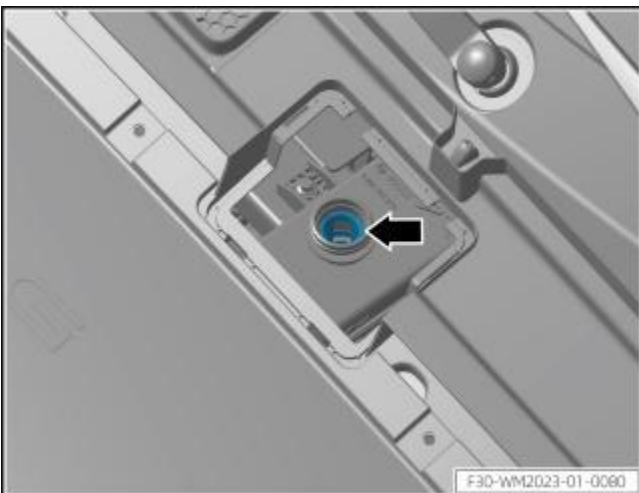
- Never mix brake fluid with other mineral oils, as they can damage the seals and rubber parts of the brake system.
- Brake fluid is toxic and corrosive, so never spill it onto the body paint.
- Brake fluid is highly hygroscopic and will absorb moisture from the surrounding environment and must be kept tightly sealed.
- Never reuse the discharged brake fluid.
- Clean the spilled brake fluid with plenty of water.
- Dispose the waste according to local regulations.

Caution

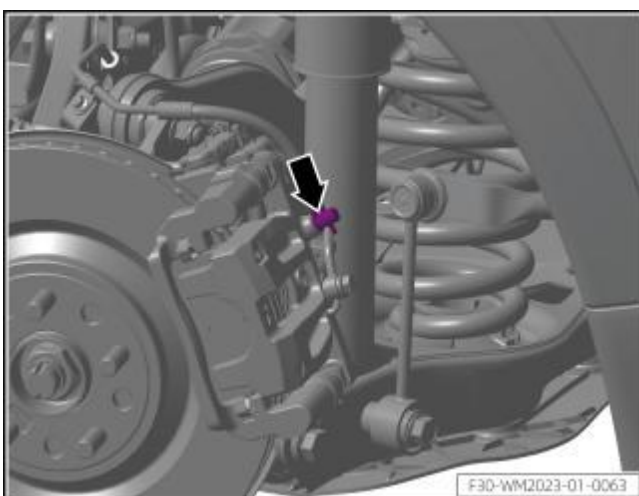
After the brake fluid is replaced, depress the brake pedal for several times before moving the vehicle to prevent danger from driving the vehicle without braking.



- 1 Remove the brake fluid filler cap with reference to .
- 2 Lift the vehicle with reference to Vehicle Lifting and Supporting Points.
- 3 Remove the wheel with reference to Wheel Assembly - Removal.
- 4 Rotate the split brake fluid reservoir cover counterclockwise and remove the split brake fluid reservoir cap.



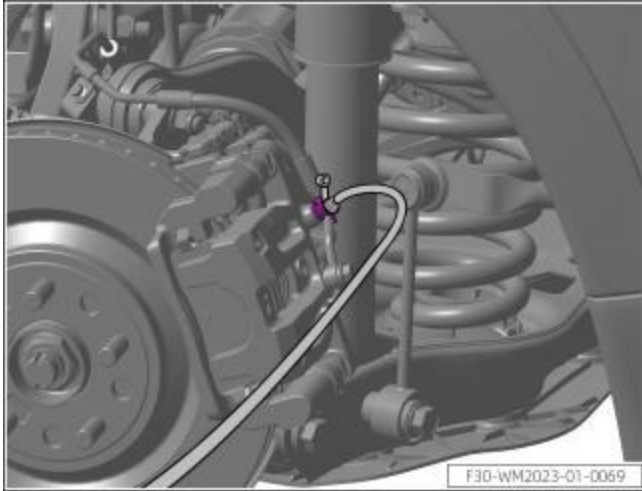
- 5 Remove the filter from the split brake fluid reservoir and use an injector to extract the brake fluid.



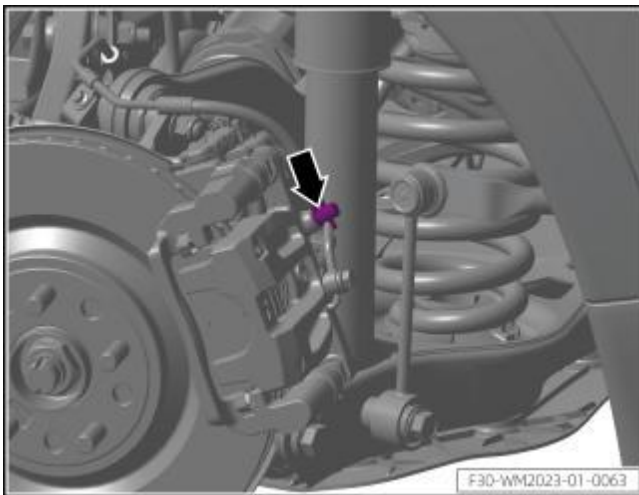
- 6 Remove the left rear vent cap and remove the left rear bleed screw.

Recommended tools:

- Screw: 10mm wrench



- 7 Install a container for collecting brake fluid.
- 8 Continuously depress the brake pedal until there is no brake fluid flowing into the brake fluid container, indicating that the brake fluid is thoroughly drained.

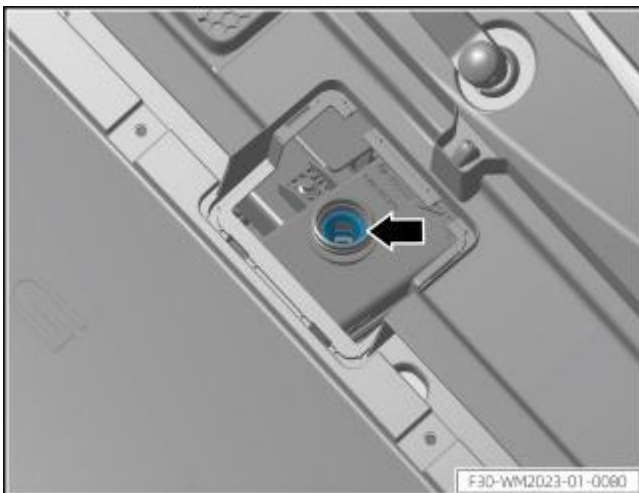


- 9 Install the left rear bleed screw and the left rear vent cap.

- **Screw torque: 12Nm**

Recommended tools:

- Screw: 10mm wrench



- 10 Install the filter in the split brake fluid reservoir.



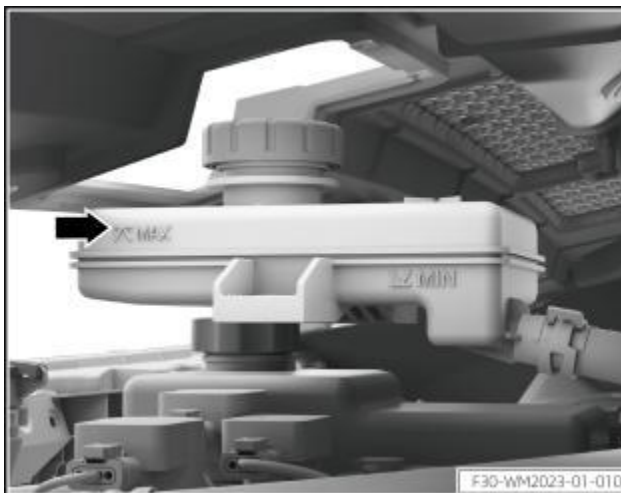
- 11 Install the split brake fluid reservoir cover clockwise.
- 12 Install the wheel with reference to Wheel Assembly - Installation.
- 13 Lower the vehicle.
- 14 Install the brake fluid filler cap with reference to .
- 15 Perform the brake fluid bleeding procedure with reference to or.

Brake fluid - Adding

Adding Procedure



- 1 Remove the brake fluid filler cap with reference to .
- 2 Rotate the split brake fluid reservoir cover counterclockwise and remove the split brake fluid reservoir cap.



- 3 Then add brake fluid until the brake fluid level is between the MIN mark and the MAX mark. If it is below the MIN mark, add brake fluid approved by Xpeng in a timely manner.



- 4 Install the split brake fluid reservoir cover clockwise.
- 5 Install the brake fluid filler cap with reference to .
- 6 The adding of brake fluid is completed.

Brake Fluid - Change

Change Procedure

Caution

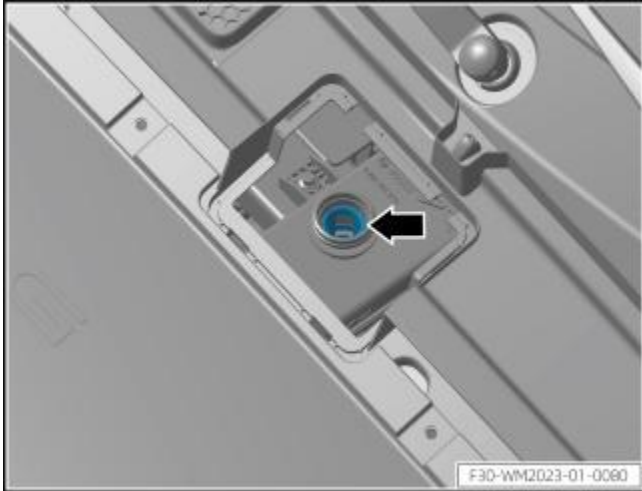
- Never mix brake fluid with other mineral oils, as they can damage the seals and rubber parts of the brake system.
- Brake fluid is toxic and corrosive, so never spill it onto the body paint.
- Brake fluid is highly hygroscopic and will absorb moisture from the surrounding environment and must be kept tightly sealed.
- Never reuse the discharged brake fluid.
- Clean the spilled brake fluid with plenty of water.
- Dispose the waste according to local regulations.

Caution

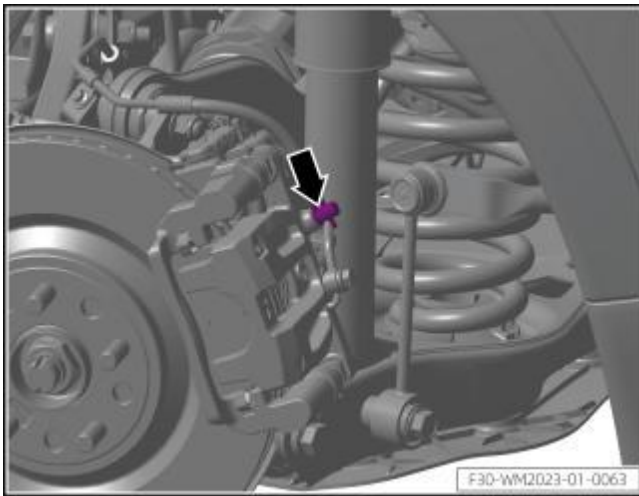
After the brake fluid is replaced, depress the brake pedal for several times before moving the vehicle to prevent danger from driving the vehicle without braking.



- 1 Remove the brake fluid filler cap with reference to .
- 2 Lift the vehicle with reference to Vehicle Lifting and Supporting Points.
- 3 Remove the wheel with reference to Wheel Assembly - Removal.
- 4 Rotate the split brake fluid reservoir cover counterclockwise and remove the split brake fluid reservoir cap.



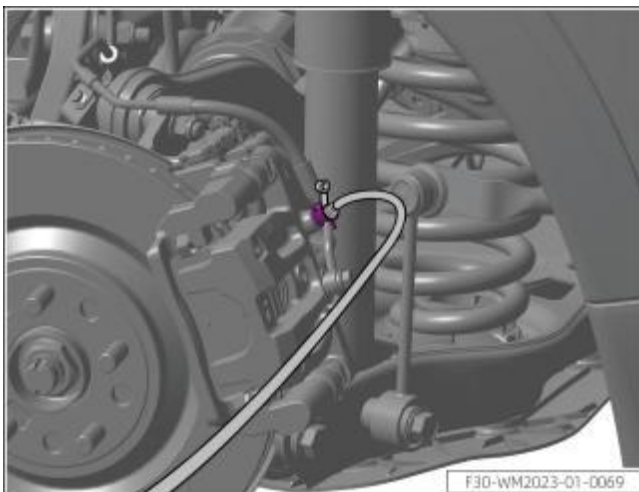
- 5 Remove the filter from the split brake fluid reservoir and use an injector to extract the brake fluid.



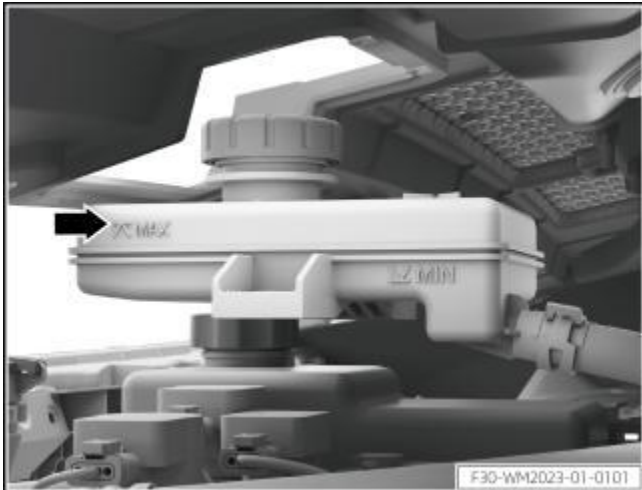
- 6 Remove the left rear vent cap and remove the left rear bleed screw.

Recommended tools:

- Screw: 10mm wrench



- 7 Install a container for collecting brake fluid.
- 8 Continuously depress the brake pedal until the vehicle's brake fluid is completely drained, and then close the bleed valve.



- 9 Then add brake fluid until the brake fluid level is between the MIN mark and the MAX mark. If it is below the MIN mark, add brake fluid approved by Xpeng in a timely manner.

Caution

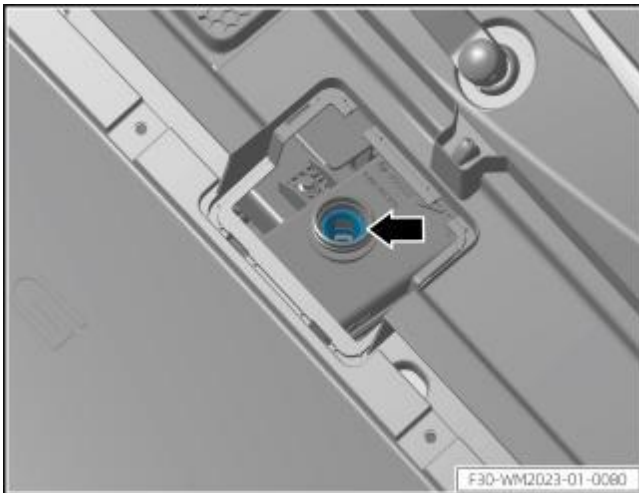
During the filling, the brake fluid level shall be kept at the MAX line.

- 10 Release the left rear bleed valve, slowly depress the brake pedal to the limit, then release the brake pedal and repeat this operation continuously until the newly added brake fluid is discharged. Then depress the brake pedal and close the bleed valve.

Caution

- Perform the steps 6 - 10, and fill the brake fluid in the order of left rear → left front → right front → right rear.
- The brake fluid container shall have a small amount of brake fluid into which the hose shall be inserted to prevent air from entering the brake system.
- After replacing the brake fluid, clean the filler port and surrounding area, and check whether there is any leakage of brake fluid.

- 11 Install the filter in the split brake fluid reservoir.



- 12 Install the split brake fluid reservoir cover clockwise.

- 13 Perform the brake fluid bleeding procedure with reference to or Install the wheel with reference to Wheel Assembly - Installation.

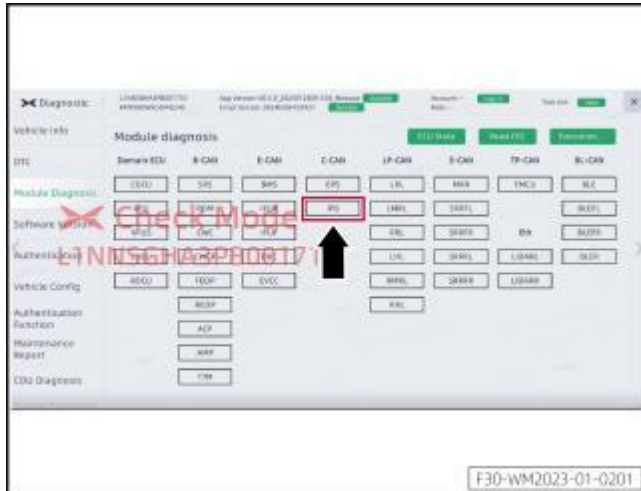
- 15 Lower the vehicle.

- 16 Install the brake fluid filler cap

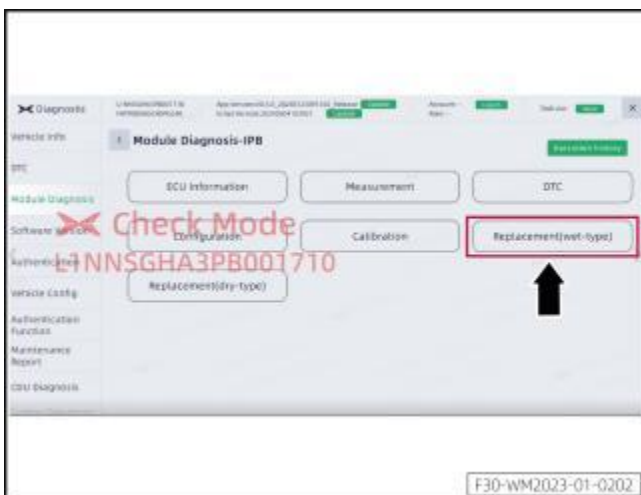
Bleeding Procedure

Caution

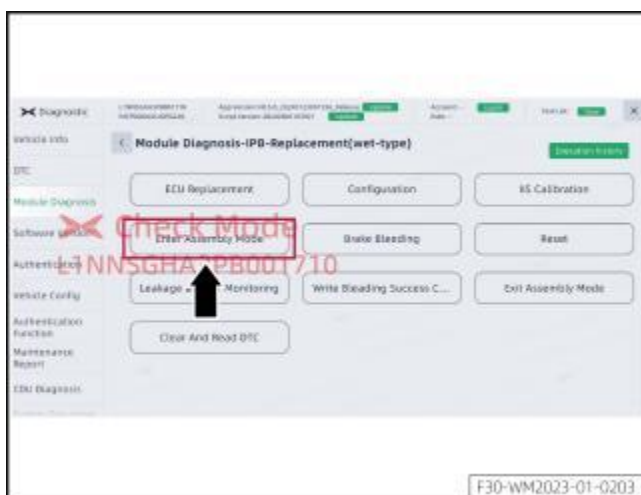
The bleeding of brake fluid wet parts is performed when the air does not enter the integrated power brake (IPB) body and there is brake fluid in the split wheel cylinder fluid reservoir.



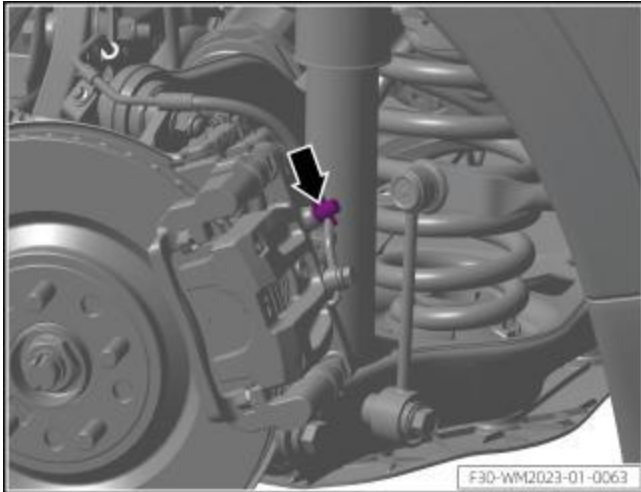
- 1 Remove the brake fluid filler cap with reference to .
- 2 Lift the vehicle with reference to Vehicle Lifting and Supporting Points.
- 3 Remove the wheel with reference to Wheel Assembly - Removal.
- 4 Enter the IVDS with reference to Login and Exiting.
- 5 Click the module to enter "IPB".



- 6 Select "Module Replacement (Wet)" and enter.



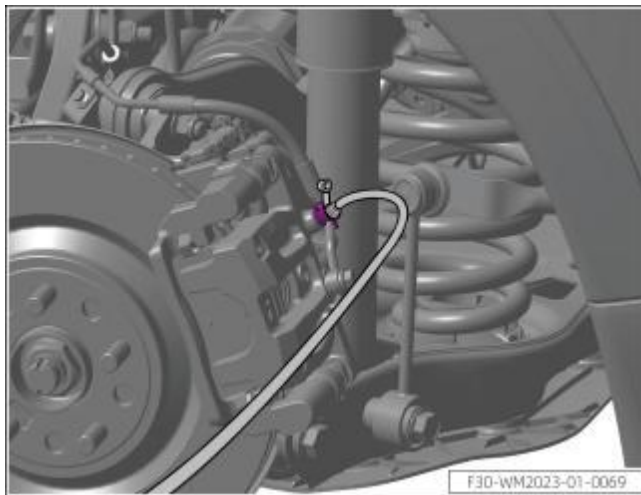
- 7 Select "Enter Assembly Mode" program.



- 8 Remove the left rear vent cap and remove the left rear bleed screw.

Recommended tools:

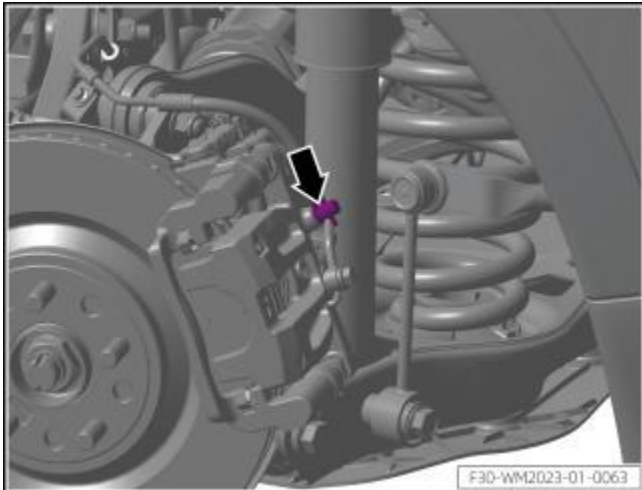
- Screw: 10mm wrench



- 9 Install a container for collecting brake fluid.

Caution

Insert the hose into the small amount of brake fluid in the container to check whether there is bubble.



10 Continuously depress the brake pedal deeply until no bubbles emerge in the brake fluid container, then depress the brake pedal to the limit, install and tighten the bleed screw, and install the bleed cap.

Caution

When draining the brake fluid, be sure to keep adding brake fluid to ensure the brake fluid level is higher than the min line to prevent air from entering the IPB chamber.

Screw torque:

12Nm

Recommended

tools:

- Screw: 10mm wrench

11 Complete the bleeding procedure for the remaining 3 wheels in sequence from step 8 to step 10.

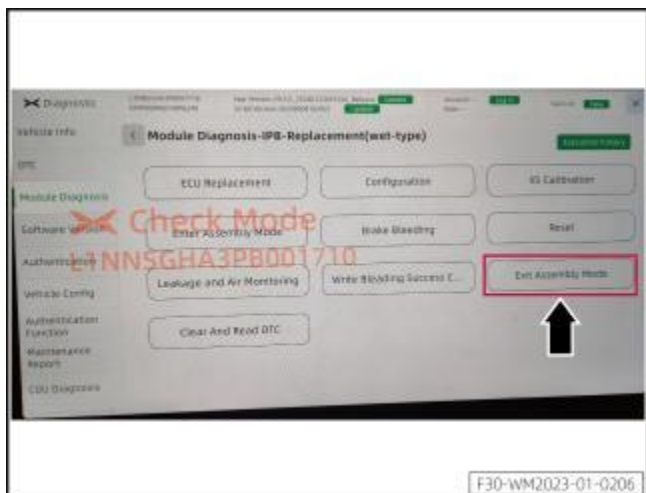
Caution

- If there is no air in one of the wheel ends, the bleeding procedures are not required.
- If the brake caliper is replaced, perform the bleeding procedures on the current wheel end only.
- If the brake pipe or brake hose is replaced, bleed the nearest wheel end.

12 After the bleeding of all wheels are completed, the CID returns to the "Module Diagnosis - IPB - Module Replacement (Wet)" interface, runs the "Air and Leakage Detection" procedure, and displays the result (Started successfully, status: OK). Close option, and proceed to the next step.



13 Click "Write successfully with matching words", and the CID will display the result: Written successfully, status: OK.



14 Close the option, return to the "CID Return Module Diagnosis
- IPB - Module Replacement (Wet)" interface, and click "Exit Assembly Module".

15 Exit the IVDS with reference to Login and Exiting.

16 The brake fluid bleeding - wet part procedure has been completed.

17 Install the wheel with reference to Wheel Assembly - Installation.

18 Lower the vehicle.

19 Install the brake fluid filler cap.

20 After the bleeding is completed, if the following fault phenomena occur, a self-test is required.

- The instrument display screen shows a prompt for brake system fault.
- The IVDS reads DTC: "C055E00" Hydraulic circuit leakage.
- When the brake pedal shakes and clatters when being depressed, it means the braking force is insufficient (i.e. IPB is downgraded to alternating pressure building mode or mechanical backup mode).

21 Self-test operation steps.

- Lock the vehicle and power it off, and wait for 5 min.

Tips

During the waiting, do not wake up the vehicle (do not open the door, do not sit in the driver and front passenger seats, do not press the key unlocking button, and let the vehicle sleep completely.

- Unlock the vehicle again, open the door and sit in the driver

seat, and wait for at least 15 s.

- Depress the brake pedal to the limit and hold it for at least 20 s (exert maximum force against the backrest) to complete the self-test operation.

Caution

If the fault still exists after repeating the above operations for many times, try to bleed again to confirm whether there is leakage, or check whether the IPB hardware is faulty.

Brake fluid bleeding - dry part

Bleeding Procedure

Caution

The bleeding of brake fluid dry parts is performed when the brake fluid leakage causes air to enter the integrated power brake (IPB), or when the integrated power brake (IPB) assembly is replaced with a new one.

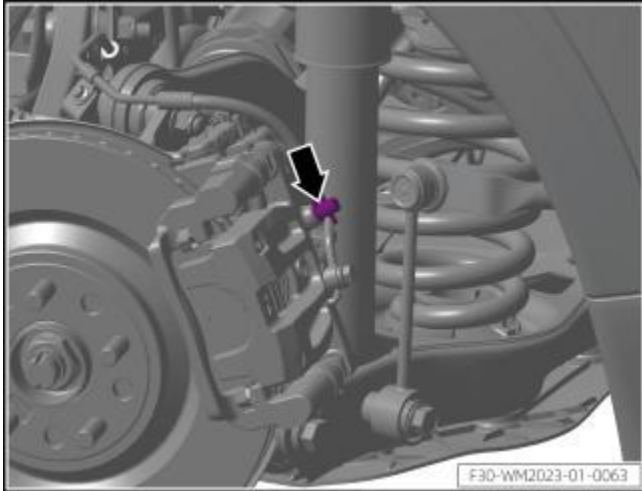
- 1 Remove the brake fluid filler cap with reference to .
- 2 Lift the vehicle with reference to Vehicle Lifting and Supporting Points.
- 3 Remove the wheel with reference to Wheel Assembly - Removal.
- 4 Enter the IVDS with reference to Login and Exiting.

- 5 Click the module to enter "IPB".



- 6 Select "Module Replacement (Dry)" and enter.

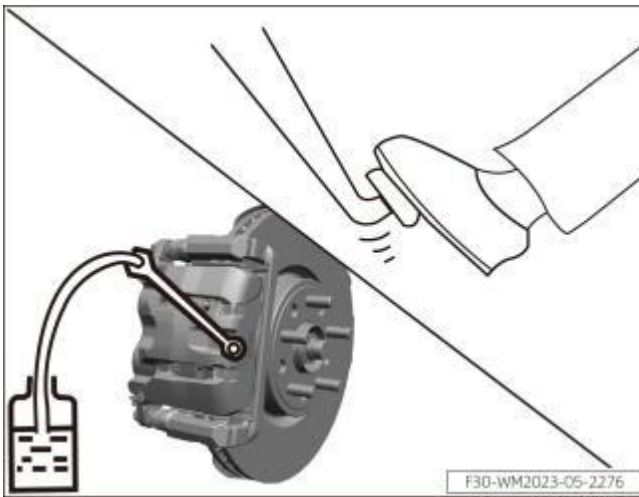
- 7 Select "Enter Assembly Mode" progr



8 Remove the left rear vent cap and remove the left rear bleed screw.

Recommended tools:

- Screw: 10mm wrench



9 Install the brake fluid container, and continuously depress the brake pedal until no bubbles emerge in the brake fluid container.

Caution

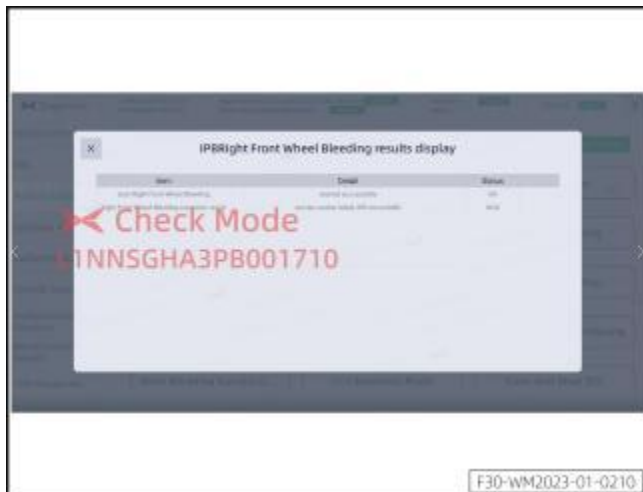
Insert the hose into the small amount of brake fluid in the container to check whether there is bubble.

Caution

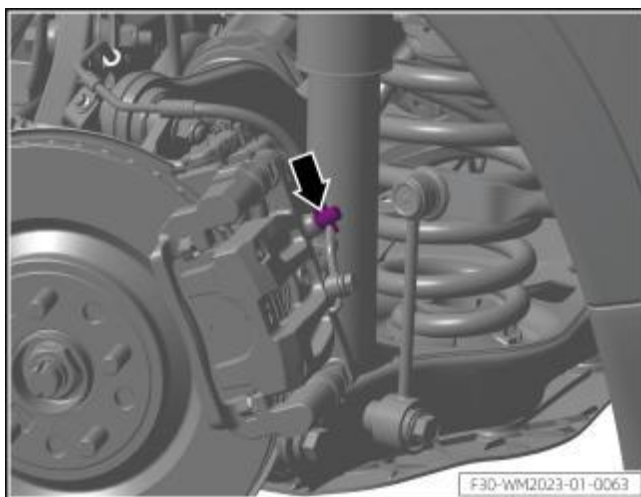
When draining the brake fluid, be sure to keep adding brake fluid to ensure the brake fluid level is higher than the min line to prevent air from entering the IPB chamber.



10 Go back to the "Module Diagnosis-IPB-Module Replacement" interface and click the "Left Rear Wheel Bleeding" procedure



11 Continuously depress the brake pedal until the procedure is completed. If the result prompt: Executed successfully, Status: OK is displayed, it indicates that the left rear bleeding is completed.



12 Install the left rear bleed screw and the vent cap.

- **Screw torque: 12Nm**

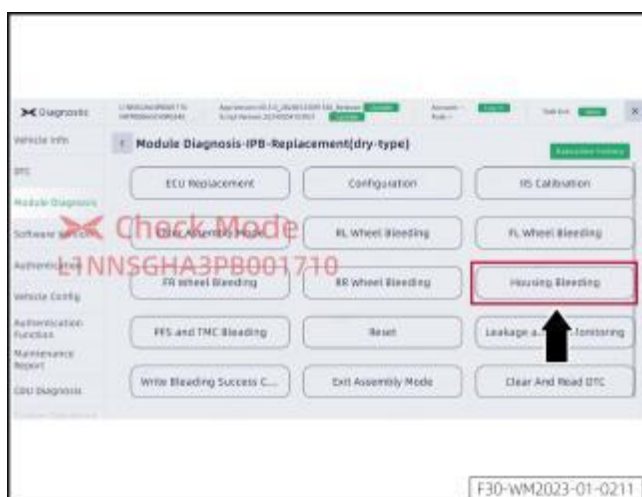
Recommended tools:

- Screw: 10mm wrench

13 Perform the steps 8 - 12, and complete the bleeding procedure in the order of left rear wheel → left front wheel → right front wheel → right rear wheel.

Caution

When the bleeding procedure is performed in sequence, the diagnosis procedure of the scan tool is also performed in the order of "left rear wheel → left front wheel → right front wheel → right rear wheel".



14 After the bleeding procedure is completed for four wheels, go back to the "Module Diagnosis-IPB-Module Replacement"

interface, click the "Housing Bleeding" procedure, do not depress the brake pedal until the procedure is completed with the result prompt: Executed successfully, status: OK.

Caution

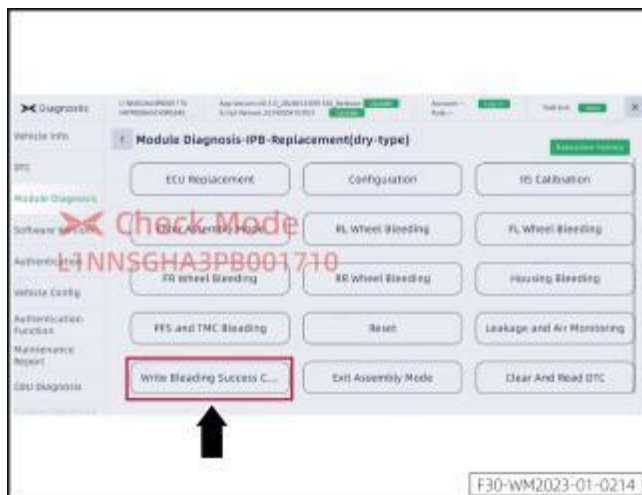
Please keep the fluid reservoir cap open during this procedure.



- 15 Click the "PFS and TMC Bleeding" procedure, continuously depress the brake pedal until the procedure is completed with the result prompt: Executed successfully, status: OK.



- 16 Click "Air and Leak Test" and wait for the procedure completion with the result prompt: Executed successfully, status: OK.



- 17 Click "Write successfully with matching words" procedure, and wait for the procedure completion with the result prompt: Written successfully, status: OK



18 Close the option, return to the "CID Return Module Diagnosis

- IPB - Module Replacement (Wet)" interface, and click "Exit Assembly Module".

19 Exit the IVDS with reference to Login and Exiting.

20 The brake fluid bleeding - dry part procedure has been completed.

21 Install the wheel with reference to Wheel Assembly - Installation.

22 Lower the vehicle.

23 Install the brake fluid filler cap with reference to .

24 After the bleeding is completed, if the following fault phenomena occur, a self-test is required.

- The instrument display screen shows a prompt for brake system fault.
- The IVDS reads DTC: "C055E00" Hydraulic circuit leakage.
- When the brake pedal shakes and clatters when being depressed, it means the braking force is insufficient (i.e. IPB is downgraded to alternating pressure building mode or mechanical backup mode).

25 Self-test operation steps.

a. Lock the vehicle and power it off, and wait for 5 min.

Tips

During the waiting, do not wake up the vehicle (do not open the door, do not sit in the driver and front passenger seats, do not press the key unlocking button, and let the vehicle sleep completely.

b. Unlock the vehicle again, open the door and sit in the driver

seat, and wait for at least 15 s.

c. Depress the brake pedal to the limit and hold it for at least 20 s (exert maximum force against the backrest) to complete the self-test operation

Caution

If the fault still exists after repeating the above operations for many times, try to bleed again to confirm whether there is leakage, or check whether the IPB hardware is faulty.

16. Electric drive lubricant (rear electric drive)

Electric Drive Lubricant - Discharge

Before Changing The Electric Drive Lubricant, If The Vehicle Temperature Is Low, It Is Recommended To Lift The Vehicle On The Lift Until The Wheels Are Off The Ground, Then Gently Press The Accelerator Pedal, Allowing The Vehicle To Operate At An Indicated 30km/h For 3 Minutes To Increase The Lubricant Temperature.

Warning

- Since electric vehicles contain high-voltage batteries, there is a risk of electric shock, leakage or similar accidents if the vehicle is not handled correctly. It is necessary to follow the correct procedure when doing repair work.
- Before working on the high-voltage system, insulated equipment for protection (including insulated gloves, power-specific helmets, and insulated shoes) must be worn, and insulated tools must be used for high-voltage work.
- The person responsible for high voltage work should be clearly identified to ensure that other persons do not touch the vehicle. When not working, cover high-voltage parts with insulated guards or similar items to prevent others from touching them.

Warning

The high voltage must be disconnected before performing repair or maintenance on the high voltage system wiring harness and parts.

Warning

It is strictly forbidden to run the motor at high speed on the lift, which may cause personal injury or equipment damage.

1. Disconnect High Voltage, See.
2. Raise Vehicle, See Vehicle Lift and Support Locations.
3. Remove the Spare Tire Well Front Panel, See Spare Tire Well Guard Assembly - Front - Removal.
4. Place the Oil Collection Device Beneath the Drain Outlet.
5. Remove the Drain Plug① and Drain the Lubricant.



6. Install Drain Plug ① onto the Front Electric Drive and Tighten to the Specified Torque.

- **Torque: 25Nm**

Caution

- If the screw plug sealing ring is subject to aging, crack, damage or other defects that affect the sealing performance, or the thread is damaged, replace the screw plug assembly with a new one during installation.
- If there are foreign objects (such as worn gear chips) adhering to the magnet of the screw plug, wipe them off before installation.

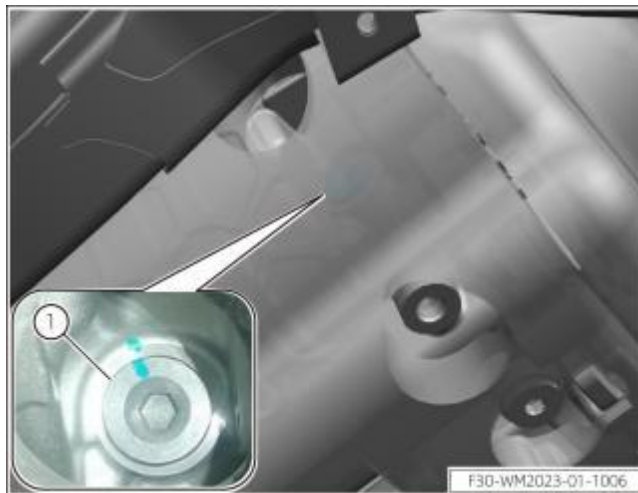
Electric Drive Lubrication Oil - Filling

Warning

- Since electric vehicles contain high-voltage batteries, there is a risk of electric shock, leakage or similar accidents if the vehicle is not handled correctly. It is necessary to follow the correct procedure when doing repair work.
- Before working on the high-voltage system, insulated equipment for protection (including insulated gloves, power-specific helmets, and insulated shoes) must be worn, and insulated tools must be used for high-voltage work.
- The person responsible for high voltage work should be clearly identified to ensure that other persons do not touch the vehicle.

When not working, cover high-voltage parts with insulated guards or similar items to prevent others from touching them.

1. Remove the oil filler screw plug ①.



2. Fill the electric drive lubricating oil.

- **Reference value: 1.35L**

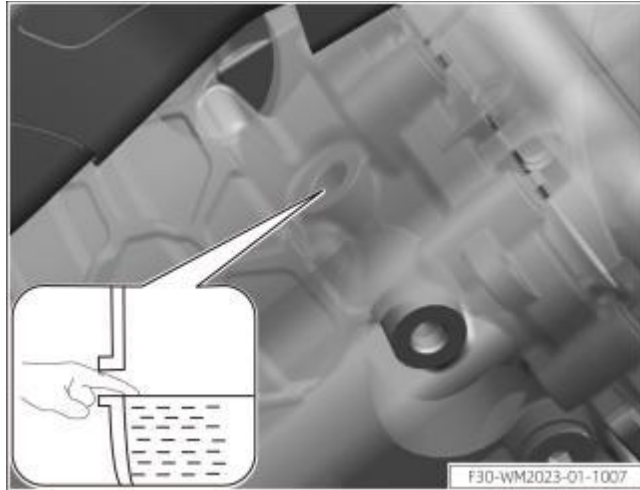
Caution

The following steps must be followed to check whether the oil level reaches the specified value. Insufficient lubricating oil will damage the drive motor.

a. Check whether the oil level is close to the specified level near the mounting hole of the filling port; if not, refill it.

Tips

After filling the oil, let it sit for 30 s to allow the oil level to settle, then check and confirm the oil level.

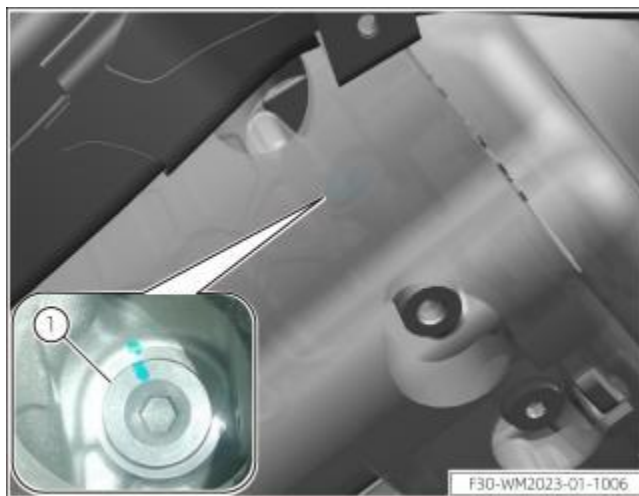


3. Install the oil filler screw plug ① to the front electric drive and tighten it to the specified torque.

- **Torque: 25Nm**

Caution

- If the screw plug sealing ring is subject to aging, crack, damage or other defects that affect the sealing performance, or the thread is damaged, replace the screw plug assembly with a new one during installation.
- If there are foreign objects (such as worn gear chips) adhering to the magnet of the screw plug, wipe them off before installation.



Note: If you change the oil cooler, filter, or electronic pump parts, raise the vehicle on a lift until the wheels are off the ground, then slowly depress the accelerator pedal and allow the vehicle to run for 3 minutes at the indicated 30km/h, and check the level again to see if it reaches the specified value, and refill it if necessary.

Warning

It is strictly forbidden to run the motor at high speed on the lift, which may cause personal injury or equipment damage.

4. Install the spare tire well front guard with reference to Spare Wheel Tire Guard assembly-Front .
5. Lower the vehicle.

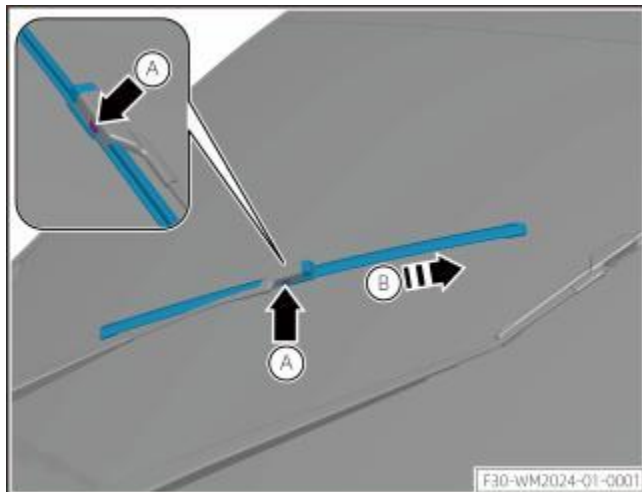
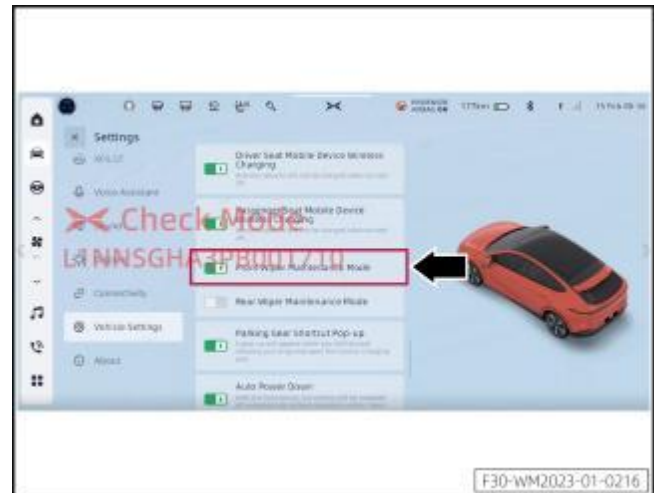
17. Video for Electric Drive Lubricating Oil-Replacement

Main wiper blade

Disassembly Procedure

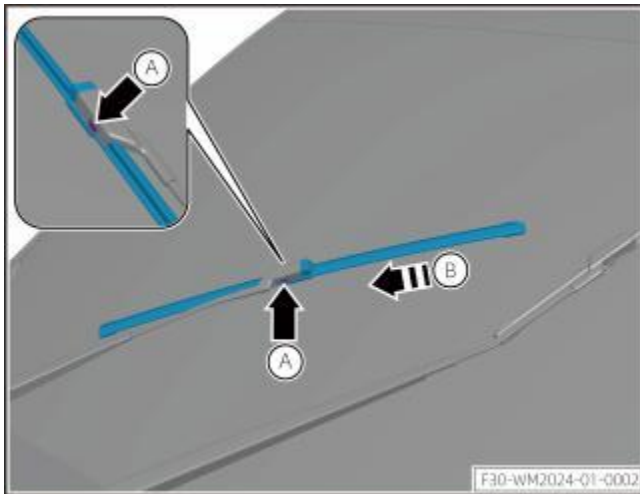
Main Wiper Blade - Removal

- 1 Place Vehicle Gear in P Position, Keep Wipers Off. Activate 'Front Wiper Maintenance Mode' in the Touchscreen Settings to move the Wiper Arms to the Maintenance Position.



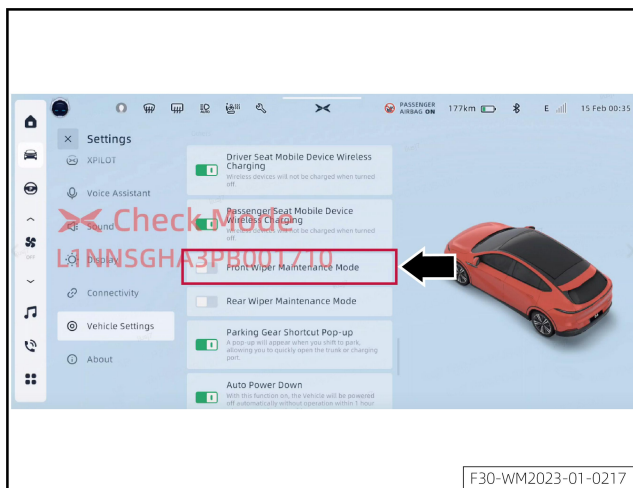
- 2 Press the Fixing Clips A on Both Sides and Remove the Front Wiper Blade in Direction B

Installation Process



Main Wiper Blade - Installation

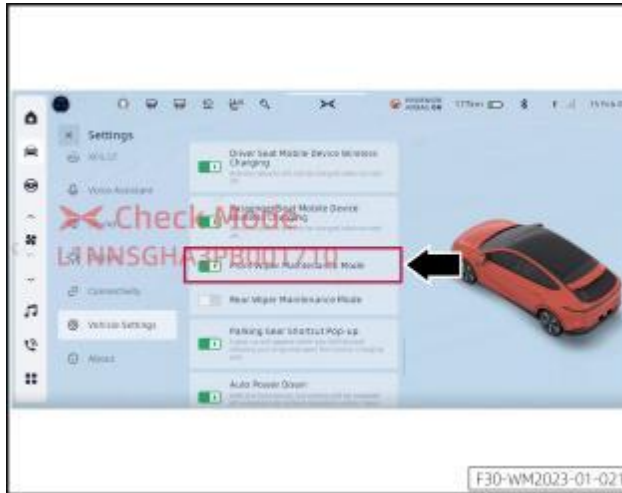
1 Install the Front Wiper Blade in the B Direction, securing both sides with the Fixed Clasps A into their positions



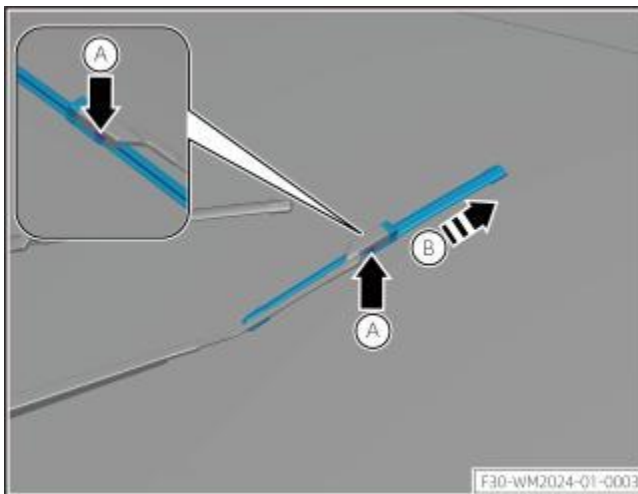
2 Shift Vehicle Gear to P and Keep Wipers Off. Turn Off 'Front Wiper Maintenance Mode' in the Touchscreen Settings to automatically reset the Wiper Arms.

18. Auxiliary wiper blade

Disassembly Procedure



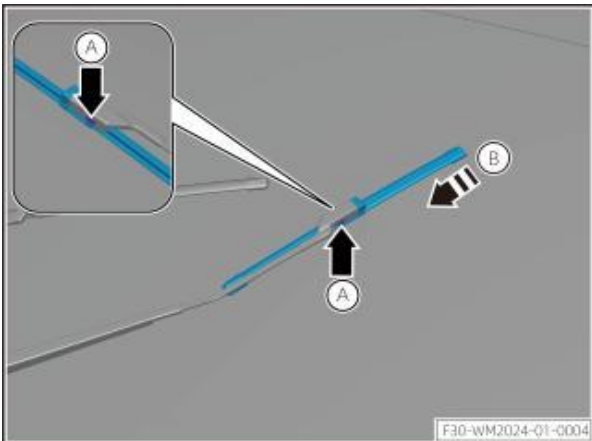
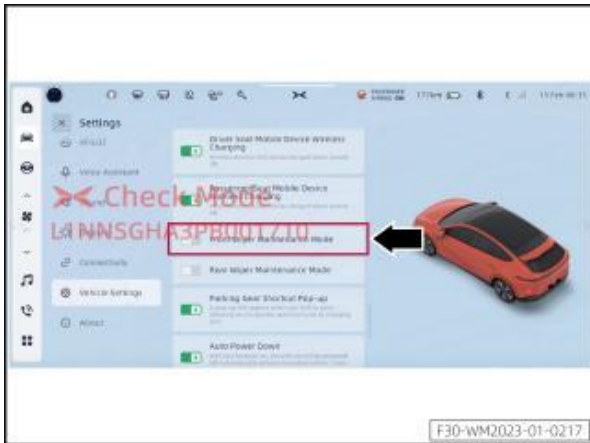
- 1 Place Vehicle Gear in P Position, Keep Wipers Off. Activate 'Front Wiper Maintenance Mode' in the Touchscreen Settings to move the Wiper Arms to the Maintenance Position.



- 2 Press the Retaining Clips A on Both Sides and Remove the Passenger-Side Wiper Blade in Direction B.

Installation Program

- 1 Install the Passenger-Side Wiper Blade in Direction B, securing both Side Clips A into their Fixed Positions.

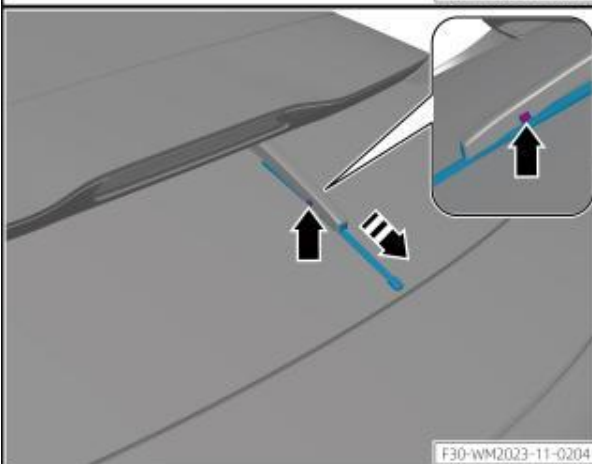
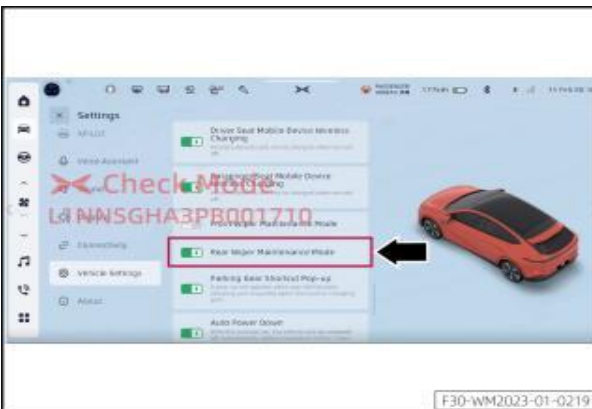


2. Place Vehicle Gear in Park and Keep Wipers Off. Turn Off 'Front Wiper Maintenance Mode' in the Touchscreen Settings. After Deactivating Maintenance Mode, the Wiper Arms Automatically Return to Position.

19. Rear wiper blade

Removal procedure

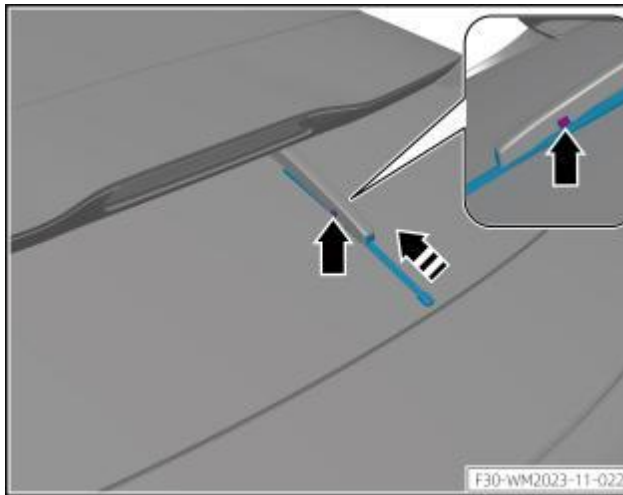
- 1 Shift to P and keep wipers off. Set the "Rear Wiper Repair Mode" to ON under Settings on CID, and the wiper arm will operate to the repair position.



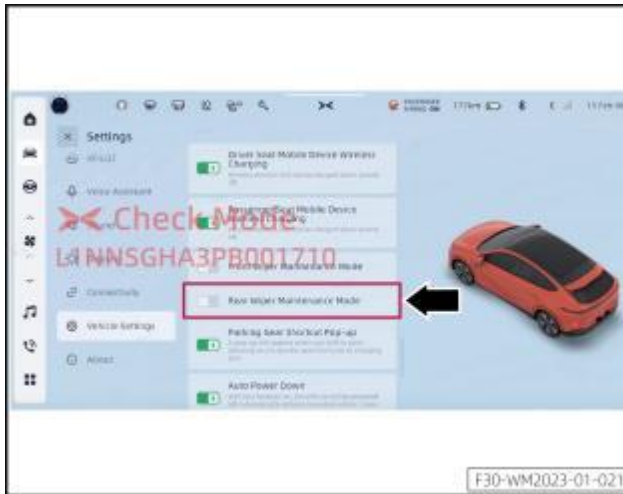
- 2 Press the purple area on both sides of the rear wiper blade and remove it in the direction of the arrow

Rear Wiper Blade - Installation

Installation procedure



- 1 Install the rear wiper blade in the direction of the arrow, and place the purple areas on both sides of the rear wiper blade in the fixed position.

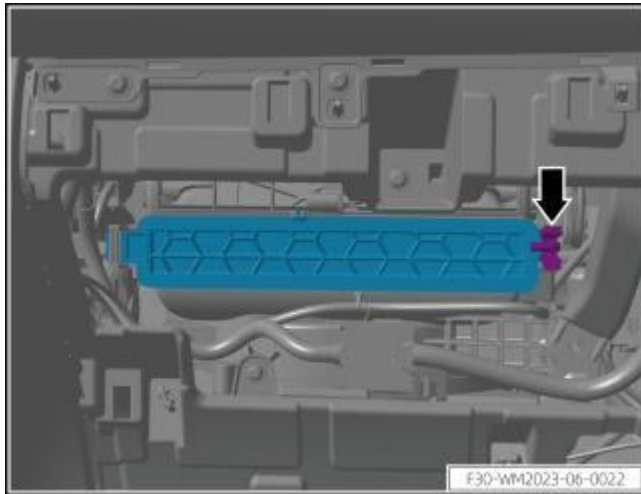


- 2 Shift to P and keep wipers off. Set the "Rear Wiper Repair Mode" to OFF under Settings on CID, and then the wiper arm will automatically return to its original position.

20. A/C filter

Disassembly Procedure

- 1 Disconnect the Battery Negative, See Battery Negative - Disconnect.
- 2 Remove the Dashboard Left End Cover Assembly, See Dashboard Side End Cover Assembly - Removal.
- 3 Remove the Lower Left Mute Panel Assembly, See.
- 4 Remove the Lower Left Trim Panel Assembly, see Left Lower Trim Panel - Removal.



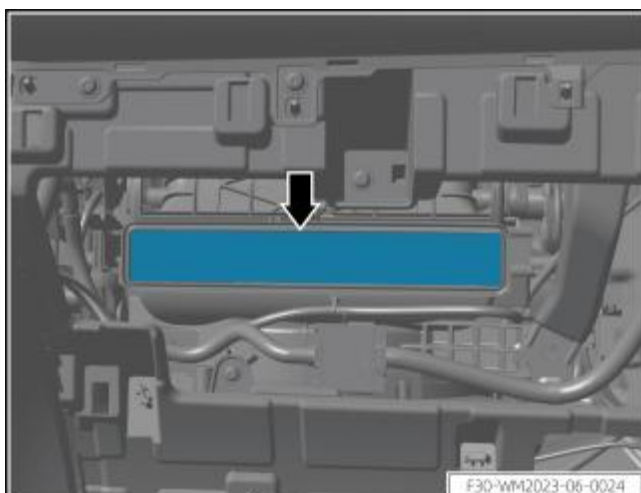
- 5 Press the Latch on the Right Side of the Filter Cover to Remove the Filter Cover.



- 6 Insert the Air Conditioner Filter Baffle beneath the Air Conditioner Filter.

Suggested Tools:

- Air Conditioner Filter: XTCZ1014 Air Conditioner Filter Baffle



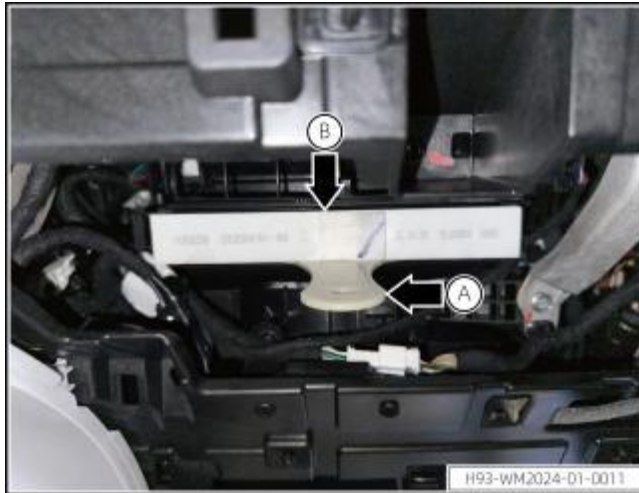
- 7 First, remove the Air Conditioner filter, then slowly pull out the Air Conditioner filter baffle.

Caution

When taking out the A/C filter baffle, be sure to prevent foreign matter from entering the A/C duct and damaging the part.

Air Conditioner Filter - Installation

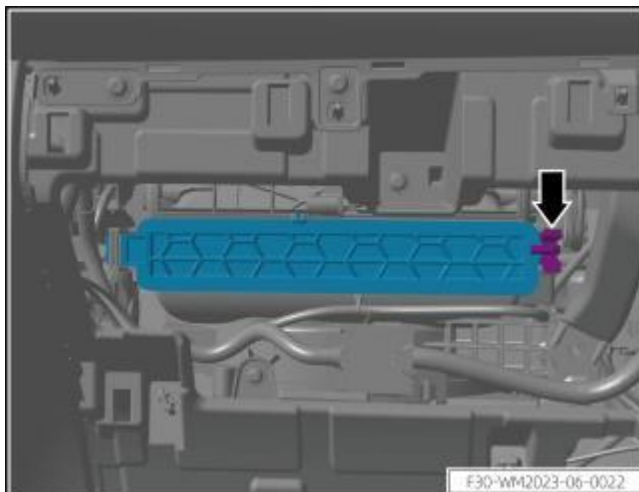
Installation Process



- 1 Insert the Air Conditioner Filter Baffle A beneath the Air Conditioner Filter, then install the Air Conditioner Filter with the Arrow B facing downwards.

Suggested Tools:

- Air Conditioner Filter: XTCZ1014 Air Conditioner Filter Baffle

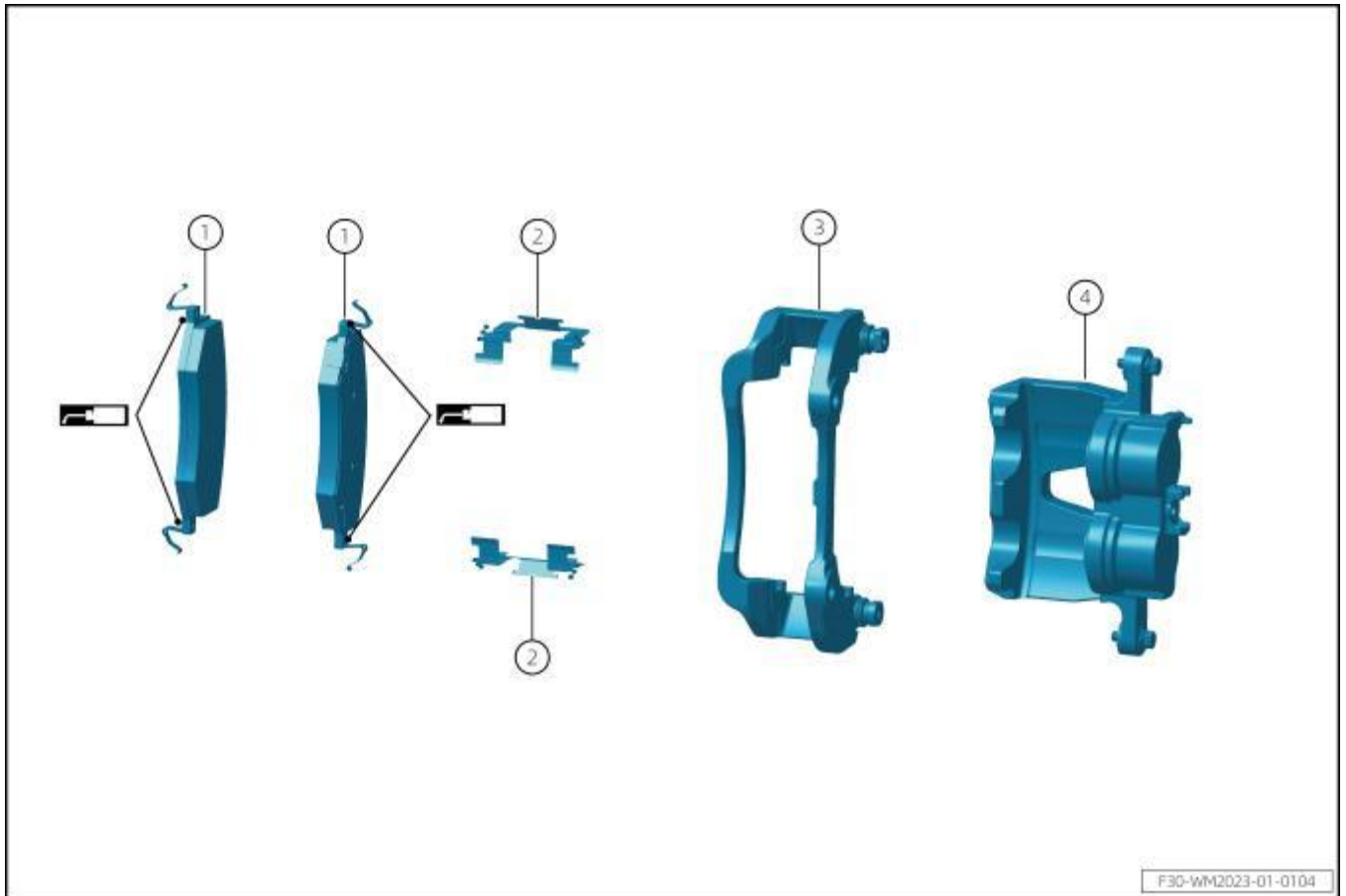


- 2 Install the Filter Cover, ensuring the right side snaps into place.
- 3 Install the Lower Left Trim Panel, Refer to Left Lower Trim Panel - Installation.
- 4 Install the Lower Left Mute Panel Assembly, See.
- 5 Install Dashboard Left End Cover Assembly, See.
- 6 Connect the Battery Negative, See Battery Negative - Connect.

21. Front disc brake lining

Front Disc Brake Lining Assembly - Exploded View

Exploded View of Front Brake Caliper with Lining Assembly



- 1. Front friction lining
- 3. Front brake caliper body bracket

- 2. Front friction lining retainer
- 4. Front brake caliper body

: Apply MOLYKOTE® Cu-7439

Front Disc Brake Lining - Removal

Tips

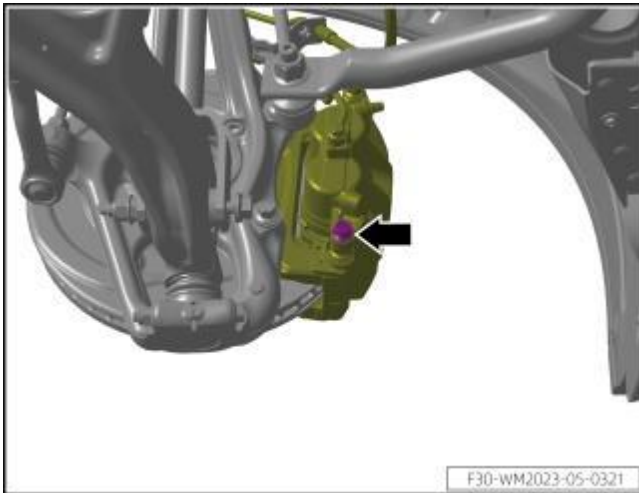
The maintenance steps are the operating procedures of part on the left side, which are the same as those on the right side.

Notes

- The dust covering the brake calipers is harmful, so it must be removed with a vacuum cleaner. Do not use an air gun to blow the dust.
- When removing the disc brake lining or brake caliper body bracket, do not depress the brake pedal because that the piston may pop out.
- If brake fluid or grease gets stuck on the brake disc, wipe it off immediately.

Removal procedure

- 1 Remove the left front wheel with reference to Wheel Assembly -Removal



- 2 Remove 1 fixing bolt connecting the left front brake caliper body to the left front brake caliper bracket

Recommended tools:

- Bolt: 14mm socket



- 3 Rotate the left front brake caliper body upwards to the appropriate position.

Caution

- Do not damage the brake hose during rotation.



- 4 Remove the repair kit for the left front brake lining.

Caution

- When removing the brake lining, be sure not to deform the brake caliper body bracket.
- Do not damage the piston dust cover.
- Do not drop brake lining, return spring, and gasket.
- Mark the position of the brake lining.

Front disc brake lining - installation

Tips

The maintenance steps are the operating procedures of part on the left side, which are the same as those on the right side.

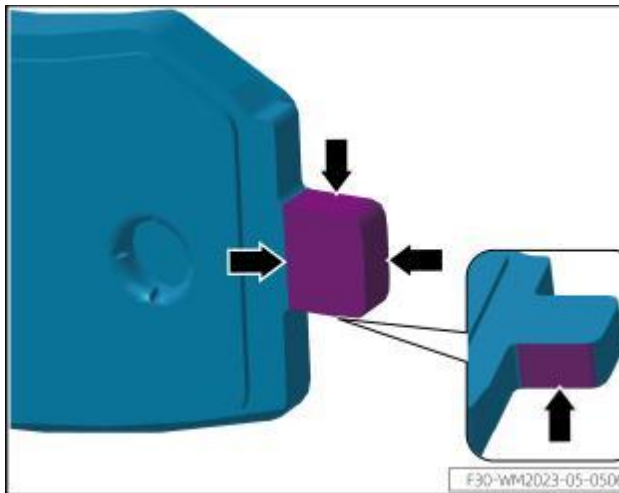
Warning

The dust covering the brake is harmful, so it must be removed with a vacuum cleaner. Do not use an air gun to blow the dust.

Caution

- When removing the brake lining or cylinder body bracket, do not depress the brake pedal because that the piston may pop out.
- If brake fluid or grease gets stuck on the brake disc, wipe it off immediately.

Installation procedure



- 1 Use a suitable tool (such as a brush) to apply a proper amount of grease to the lugs on both sides of the brake lining.
 - a. Apply MOLYKOTE Cu-7439® grease to the four sides of the lugs of the brake lining as shown in the figure.

Tips

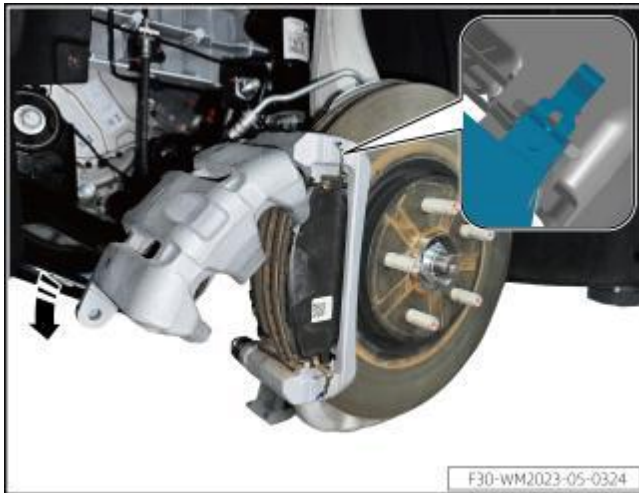
Apply grease to all four sides of the lug evenly.

- b. Check that the grease is evenly applied to the lugs on both sides of the brake lining.

Caution

- The working surface of the brake lining must not be greased or contaminated with foreign matter.





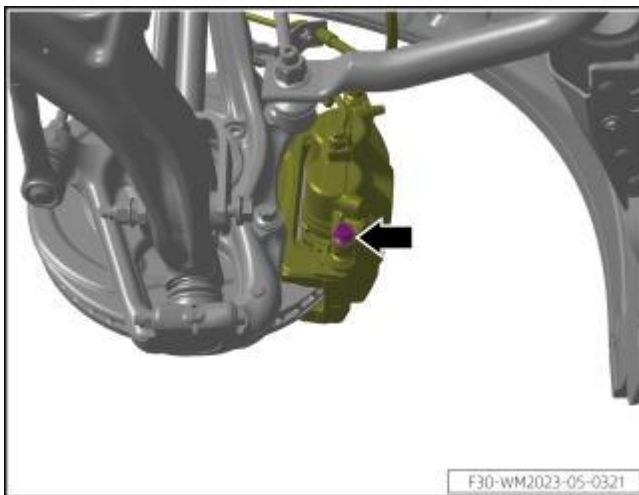
- 2 Install the left front brake lining assembly and rotate the left front brake caliper body downwards to the installation position

Caution

Ensure that the front brake lining mating surface is clean without oil stains, and the inside and outside of the front lining mating should be consistent. Do not install it reversely.

Notes

- Ensure that the four lugs of the two brake linings are installed in place as shown in the left figure.



- 3 Install and tighten the 1 fixing bolt connecting the left front brake caliper body to the left front brake caliper bracket.

- **Bolt torque: 58.5Nm**

Recommended tools:

- Bolt: 14mm socket

- 4 Install the left front wheel with reference to Wheel Assembly - Installation.

Front disc brake lining - inspection

Check Procedure

Tips

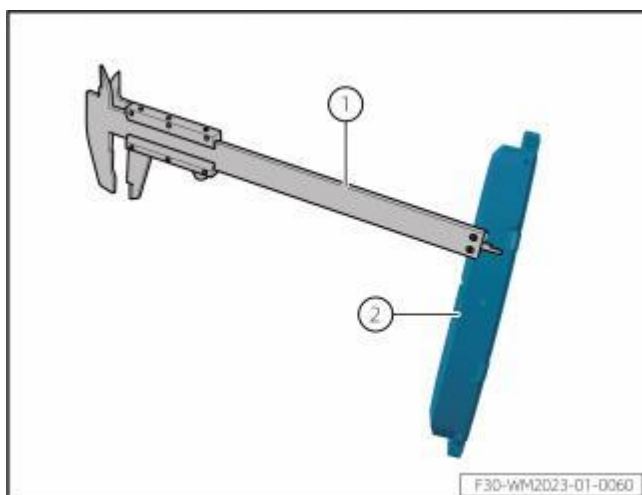
To better check the thickness of the brake lining, use a mirror and remove the wheels on one side if necessary.

- 1 Check the brake lining

Tips

If the thickness of the front brake lining (without backing plate) is less than or equal to 2.3mm, it means that the brake lining has reached the wear limit and must be replaced.

When replacing the brake lining, be sure to check the brake disc for wear. The wear limit of the front brake disc is 26mm. Replace the brake disc if necessary.

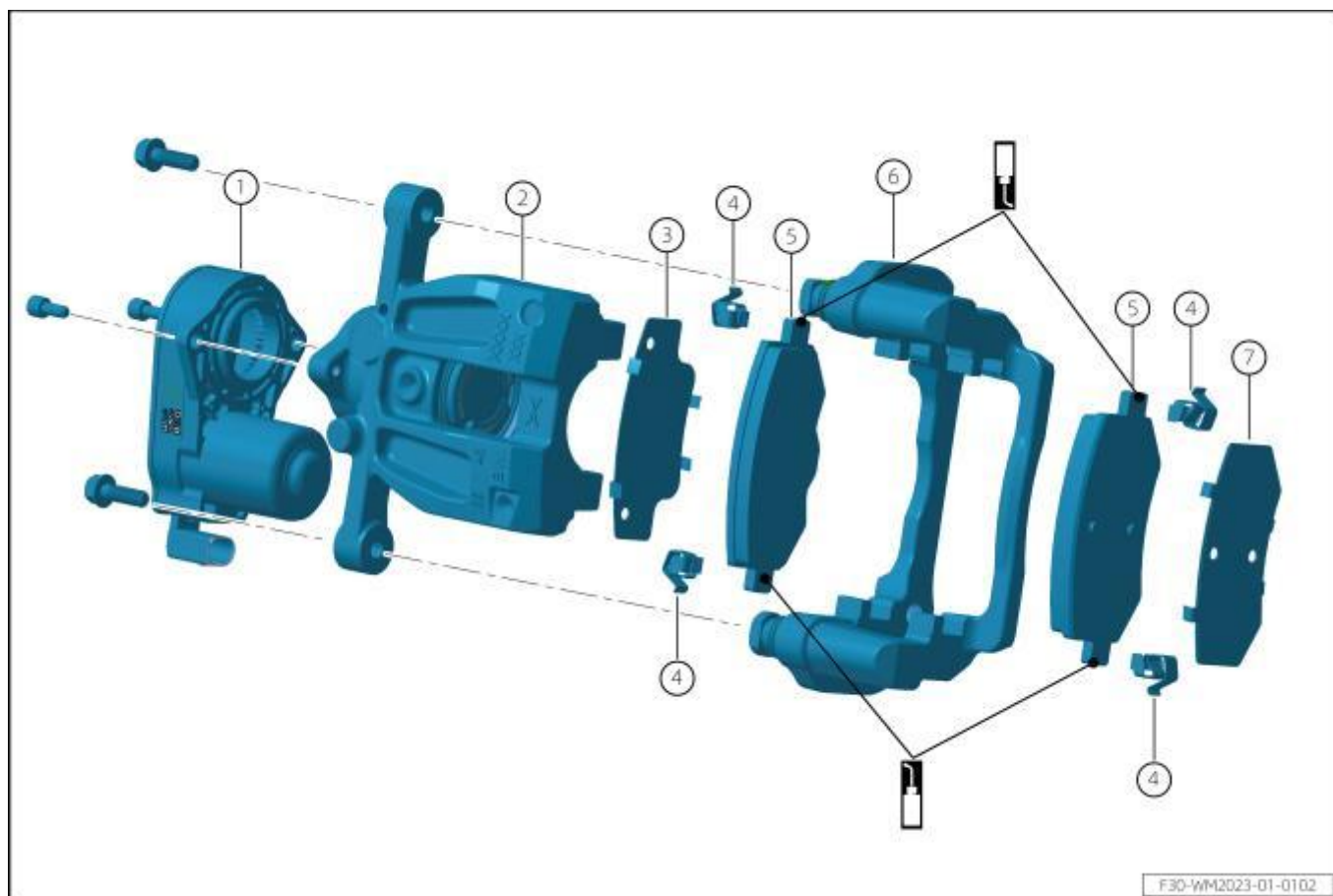


- a. Use a vernier caliper ① to measure the thickness of the brake lining as shown in the figure. If it exceeds the specification, replace the brake lining ② with a new one.
- b. If replacement is required, the brake lining must be replaced as a set.
- c. Check whether the friction surface of the brake lining ② is cracked, broken or damaged.
 - Wear limit of brake lining for the front wheel: 2.3mm (excluding the backing plate for brake lining)

Rear disc brake lining

Rear Disc Brake Friction Lining Assembly - Exploded View

Rear Brake Caliper with EPB Assembly - Exploded View



1. Rear brake caliper electrically-controlled drive assembly
3. Rear disc brake friction lining inner shim
5. Rear friction lining
7. Rear disc brake friction lining outer shim

2. Rear brake caliper body
4. Rear friction lining return spring
6. Rear brake caliper body bracket

: Apply MOLYKOTE® Cu-7439

Rear Disc Brake Pad - Removal

Tips

The maintenance steps are the operating procedures of part on the left side, which are the same as those on the right side.

Notes

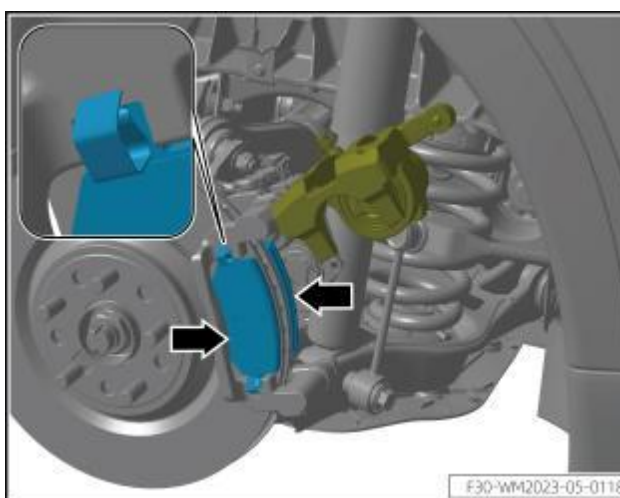
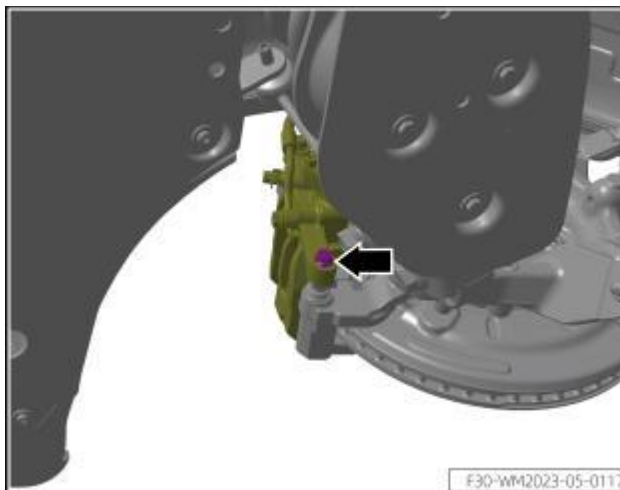
- The dust covering the brake calipers is harmful, so it must be removed with a vacuum cleaner. Do not use an air gun to blow the dust.
- When removing the disc brake lining or brake caliper body bracket, do not depress the brake pedal because that the piston may pop out.
- If brake fluid or grease gets stuck on the brake disc, wipe it off immediately.

Disassembly Procedure

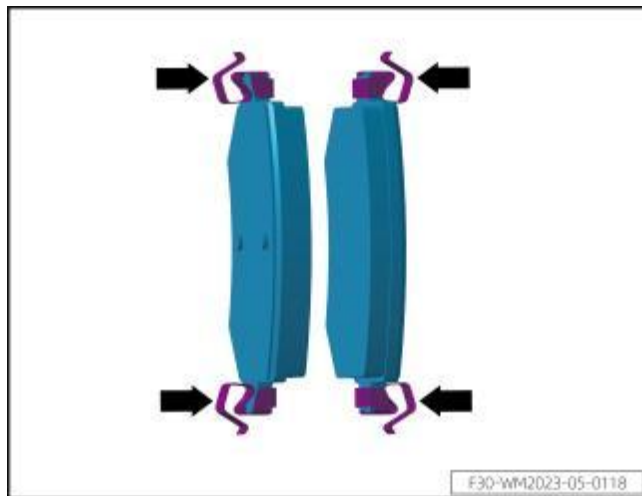
- 1 Execute 'Enter EPB Maintenance Mode', see Enter and Exit EPB Maintenance Mode.
- 2 Remove the Left Rear Wheel, See Wheel Assembly - Removal.
- 3 Remove the 1 Bolt Connecting the Left Rear Brake Caliper to the Left Rear Brake Caliper Bracket.

Suggested Tools:

- Bolt: 12mm Socket



- 4 Rotate the Left Rear Brake Caliper Upward to the Appropriate Position, Remove the Left Rear Brake Pad Assembly



- 5 Remove the 4 Retraction Springs from the Left Rear Brake Pad, and take out the Left Rear Brake Pad Repair Kit.
- 6 Remove Rear Disc Brake Pads, See Rear Disc Brake Pad - Removal.

Rear disc brake lining - installation

Tips

The maintenance steps are the operating procedures of part on the left side, which are the same as those on the right side.

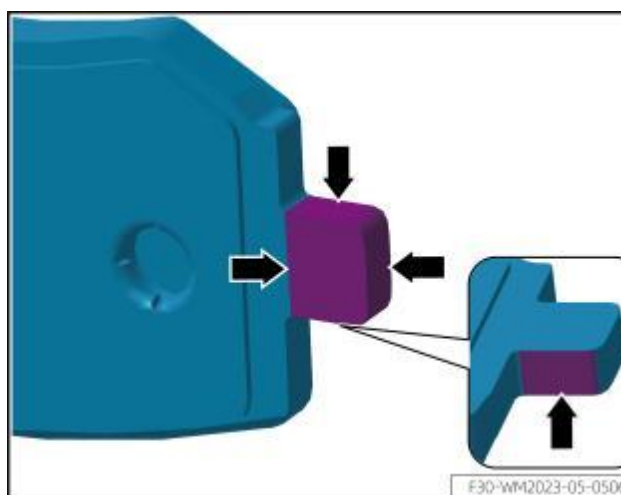
Warning

The dust covering the brake is harmful, so it must be removed with a vacuum cleaner. Do not use an air gun to blow the dust.

Caution

- When removing the brake lining or cylinder body bracket, do not depress the brake pedal because that the piston may pop out.
- If brake fluid or grease gets stuck on the brake disc, wipe it off immediately.

Installation procedure



- 1 Use a suitable tool (such as a brush) to apply a proper amount of grease to the lugs on both sides of the brake lining.

- a. Apply MOLYKOTE Cu-7439® grease to the four sides of the lugs of the brake lining as shown in the figure.

Tips

Apply grease to all four sides of the lug evenly.

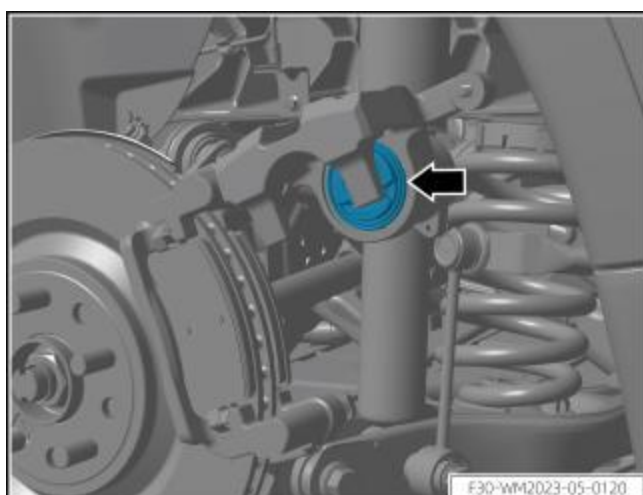
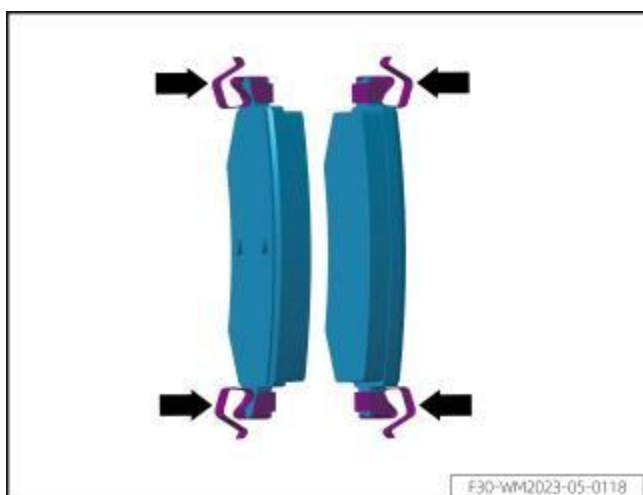
- b. Check that the grease is evenly applied to the lugs on both sides of the brake lining.

Caution

- The working surface of the brake lining must not be greased or contaminated with foreign matter.



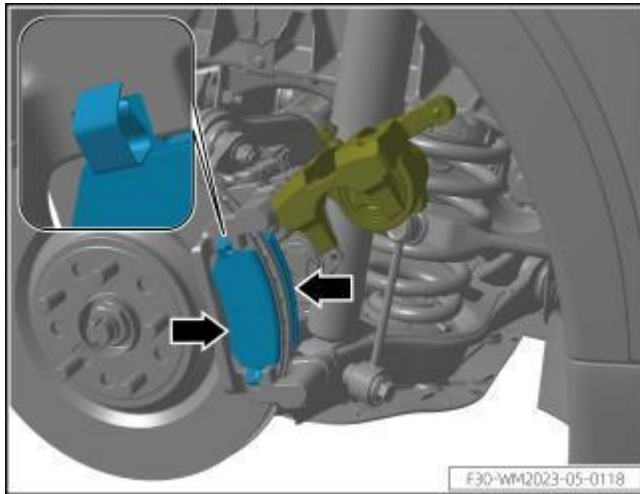
- 2 Install the rear disc brake lining gasket with reference to Rear Disc Brake Lining Gasket - Installation.
- 3 Install the 4 return springs of the left rear brake lining repair kit.



- 4 Use the piston tool to push the caliper piston into the caliper piston hole

Recommended tools:

- Piston: XTCZ9001 resetting tool of front/rear brake piston



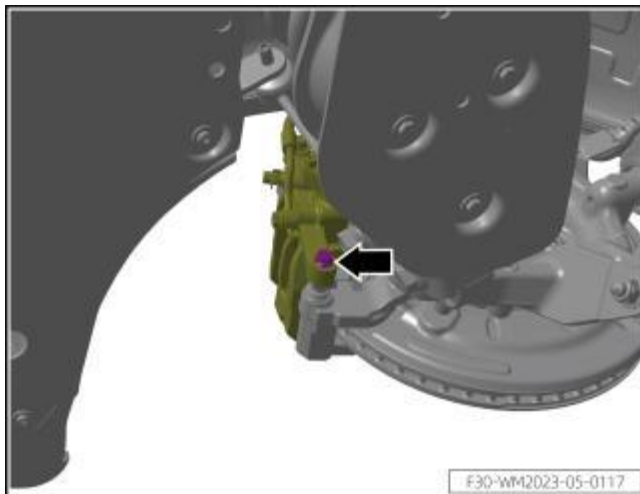
- 5 Install the left rear brake lining assembly and rotate the left rear brake caliper body downwards to the installation position.

Caution

Ensure that the rear brake lining mating surface is clean without oil stains, and the inside and outside of the rear lining mating should be consistent. Do not install it reversely.

Notes

- Ensure that the four lugs of the two brake linings are installed in place as shown in the left figure.



- 6 Install the 1 fixing bolt connecting the left rear brake caliper body to the left rear brake caliper bracket

- **Bolt torque: 35Nm**

Recommended tools:

- Bolt: 12mm socket

- 7 Install the left rear wheel with reference to Wheel Assembly - Installation.
- 8 Execute "Exiting EPB Repair Mode" with reference to Entering and Exiting EPB Repair Mode.

Rear disc brake lining - inspection

Check Procedure

Tips

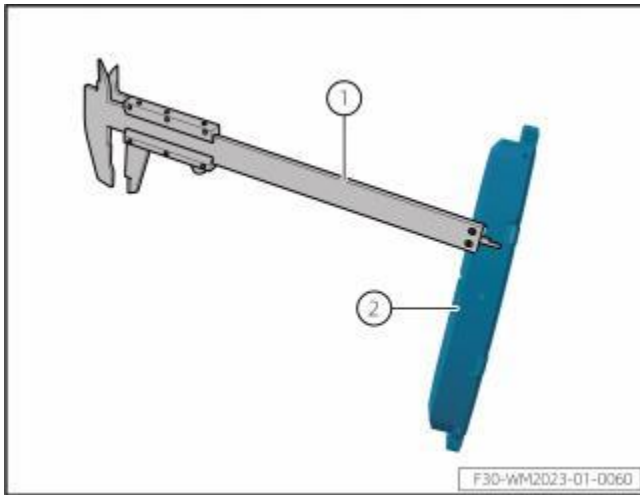
To better check the thickness of the brake lining, use a mirror and remove the wheels on one side if necessary.

- 1 Check the brake lining

Tips

If the thickness of the rear brake lining (without backing plate) is less than or equal to 3.3mm, it indicates that the brake lining has reached the wear limit, and the rear brake lining and the retaining spring must be replaced at the same time.

When replacing the brake lining, be sure to check the wear of the brake disc. The wear limit of the rear brake disc is 20mm. Replace the brake disc if necessary.



- a. Use a vernier caliper ① to measure the thickness of the brake lining as shown in the figure. If it exceeds the specification, replace the brake lining ② with a new one.
- b. If replacement is required, the brake lining must be replaced as a set.
- c. Check whether the friction surface of the brake lining ② is cracked, broken or damaged.
 - Wear limit of brake lining for rear wheel: 3.3mm (excluding the backing plate for brake lining)

22. Smart Key Battery



Smart Key Battery- Replacement

- 1 Press the decorative cover unlock button and remove the cover in the direction of the arrow.



- 2 Carefully flip open the back cover on both sides of the edges.



- 3 Remove the key battery. Battery model: CR2032H.
- 4 Install in the reverse order. Ensure the positive side (+) is facing up when installing the key battery.

Tips

- During the installation process, do not bend the key battery electrodes.
- Ensure there is no dust or oil stains inside the key case cover.
- Before replacing the key battery, eliminate static electricity from the body by touching the vehicle, etc., to prevent damage to the smart key.

Wheels Assembly

Wheel Assembly - Removal

Tips

The maintenance steps are the operating procedures of left front wheel, which are the same as those of other wheels.

Removal procedure



- 1 Remove the left front wheel nut cover with reference to [Wheel Nut Cover - Removal](#)
- 2 Loosen the wheel nuts by about 90°.

Recommended tools:

- Nut: 21mm socket
- 3 Lift the vehicle with reference to Vehicle Lifting and Supporting Points.
 - 4 Remove the wheel fixing nut and remove the wheel assembly.

Wheel Assembly - Installation

Tips

The maintenance steps are the operating procedures of left front wheel, which are the same as those of other wheels.

Installation procedure



- 1 Move the wheels to the installation position.
- 2 When assembling the wheel assembly, first tighten all wheel nuts by hand.
- 3 Pre-tighten the wheel fixing nuts A-B-C-D-E in sequence.
- 4 Lower the vehicle.
- 5 Tighten the wheel nuts to the specified torque with a torque wrench.
 - **Nut torque: 200Nm**
- 6 Install the left front wheel nut cover with reference to [Wheel Nut Cover - Installation](#)

Recommended tools:

- Nut: 21mm socket

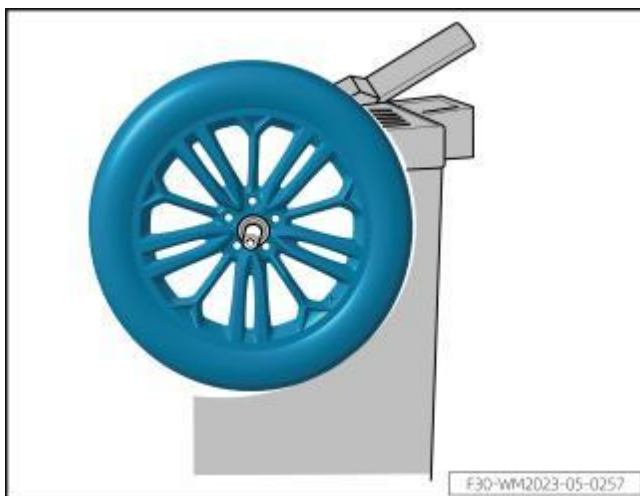
Wheel Assembly - Dynamic Balance

Procedure

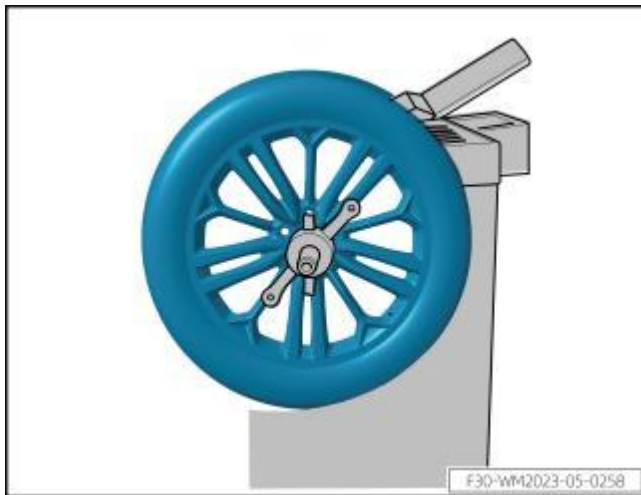
Tips

Before performing the dynamic balancing, the following conditions must be met:

- The tire inflation pressure is normal;
- There is no unilateral wear on the tread pattern; The tread depth should be at least 4mm;
- The tires are free of damage, such as scratches, punctures, foreign objects, etc.;
- The tires are free of balance weights;
- Test run has been carried out.



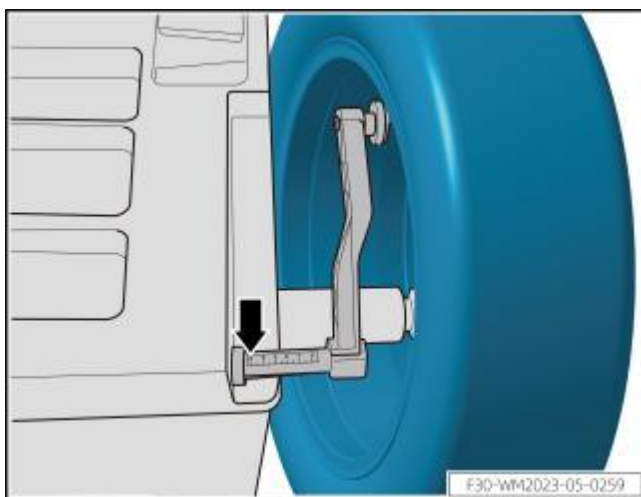
- 1 Remove the wheel trim cover and install the wheel assembly onto the dynamic balancing machine



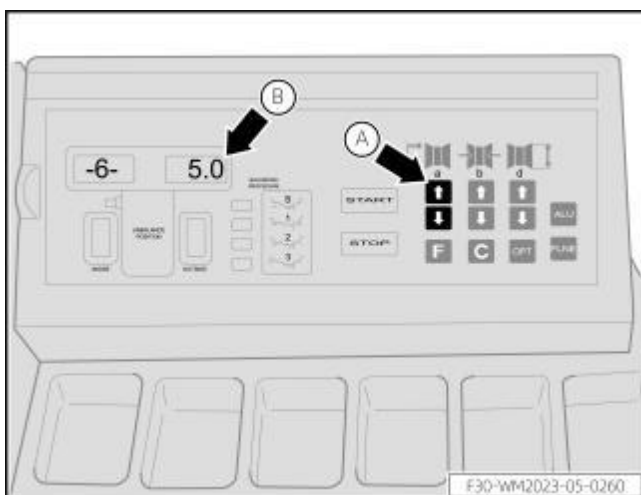
2 Fit a suitable cone into the center hole of the wheel assembly, and use a locking device to lock the wheel assembly.

Caution

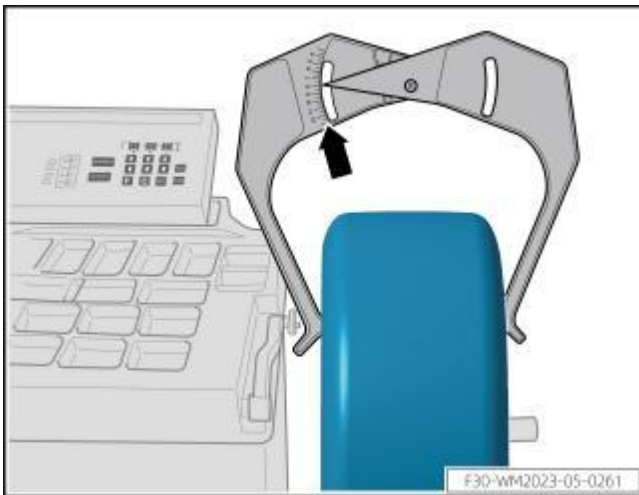
The cone must be aligned with the center hole, otherwise the data may not be accurate.



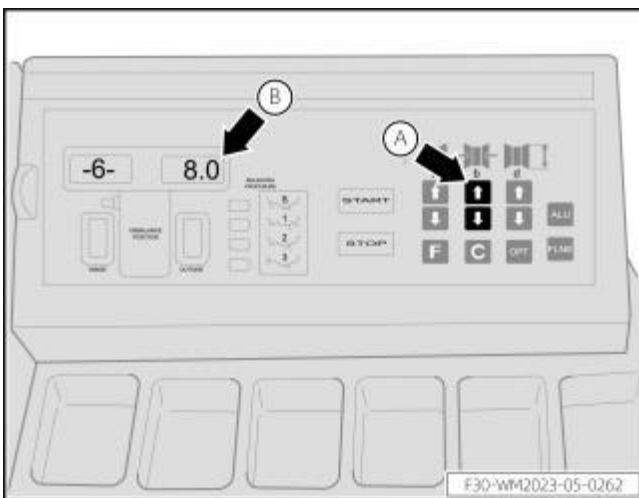
3 Turn on the power of the dynamic balancing machine, pull out a ruler to measure the distance between the wheel rim and the dynamic balancing machine, and read the distance between the wheel rim and the dynamic balancing machine



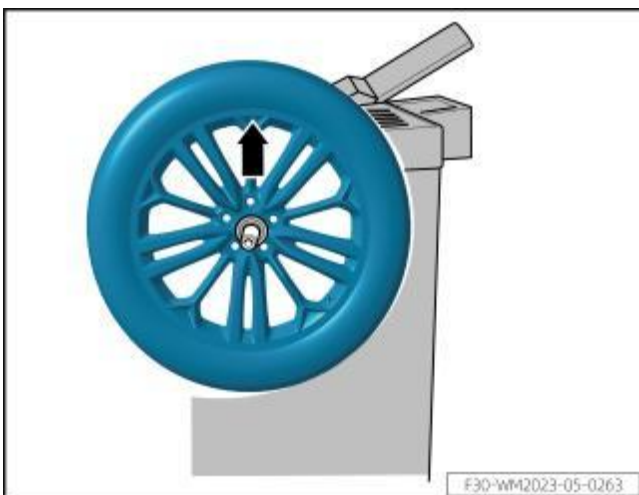
4 At panel A of the dynamic balancing machine, input the distance data between the wheel rim and the dynamic balancing machine, and display the input value B.



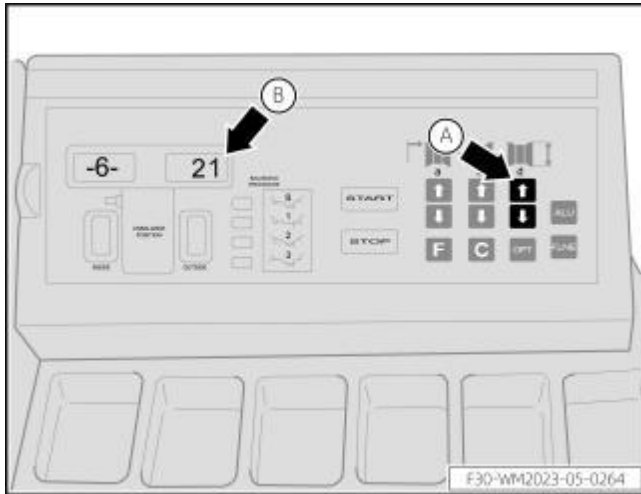
5. Use a ruler to measure the width of the wheel rim and read the wheel rim width data.



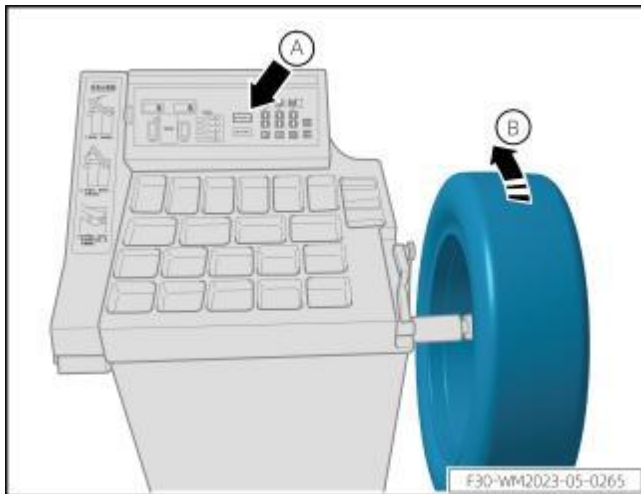
6 At panel A of the dynamic balancing machine, input the wheel rim width data and display the input value B



7 Check the wheel diameter at the arrow.



8 At panel A of the dynamic balancing machine, input the wheel diameter data and display the input value B



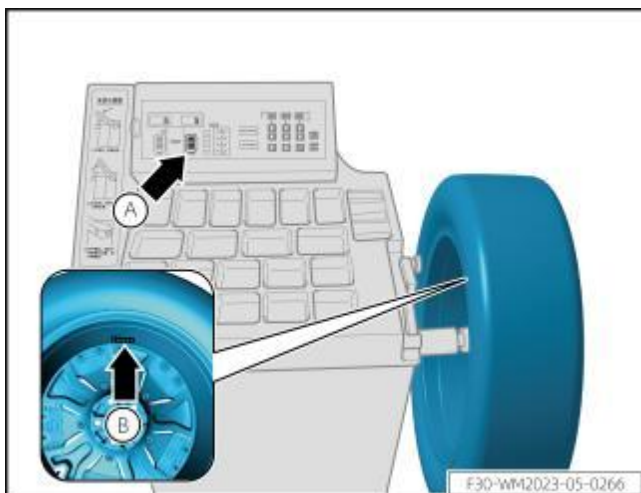
9 Press the start button A, and the dynamic balancing machine will start driving the wheels to rotate in the direction of arrow B, and then the measurement starts

10 After the wheels automatically stop, the panel displays the value of the wheel deviation.

Caution

When the wheel is rotating, do not get close to the wheel, so as to avoid danger.

The initial imbalance between the interior and the exterior is ≤ 60 .

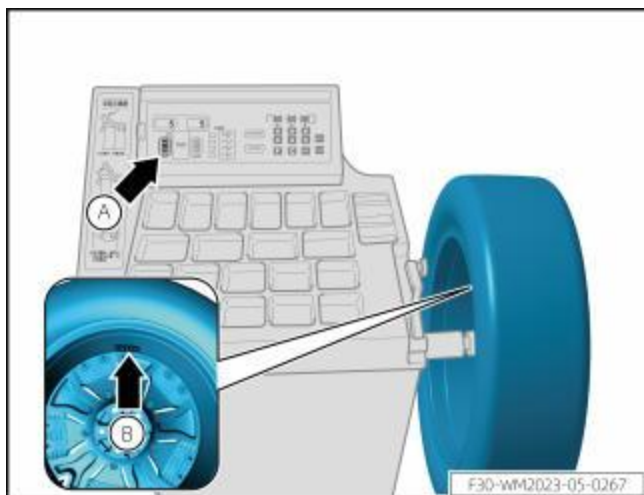


11 Rotate the wheel by hand, and when the display on the inner side of the dynamic balancing machine is in full grid state (A), add the corresponding counterweight B on the inner side of the wheel rim

Caution

Before adhering the balance weight, clear the dust on the rim to prevent the balance weight from falling off when the wheel rotates at high speed and causing an accident.

When adhering the balance weight, the adhesion position is centered on the rotating shaft of the dynamic balancing machine. Adhere the balancing weight on the rim directly above the rotating shaft of the dynamic balancing machine.



12 Rotate the wheel by hand, and when the display on the outer side of the dynamic balancing machine in full grid state (A), add the corresponding counterweight B on the outer side of the wheel rim

Caution

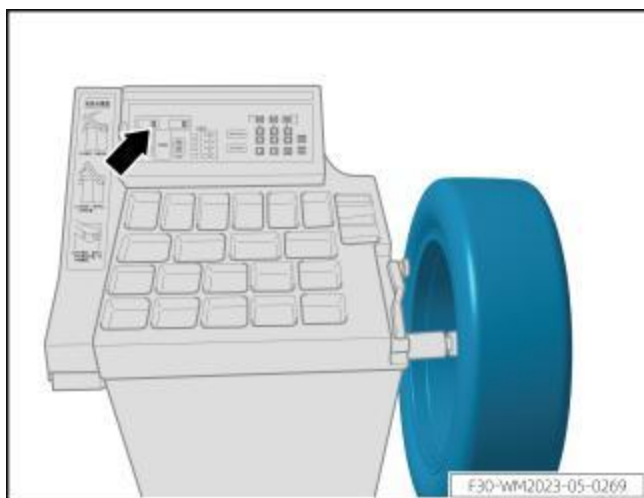
Before adhering the balance weight, clear the dust on the rim to prevent the balance weight from falling off when the wheel rotates at high speed and causing an accident.

When adhering the balance weight, the adhesion position is centered on the rotating shaft of the dynamic balancing machine. Adhere the balancing weight on the rim directly above the rotating shaft of the dynamic balancing machine.

13 Press the start button A again, and the dynamic balancing machine will start driving the wheels to rotate in the direction of arrow B

Caution

When the wheel is rotating, do not get close to the wheel, so as to avoid danger.



14 After the wheels automatically stop, the panel displays a value of 00, indicating that the dynamic balance has been completed.

Wheel assembly - transposition

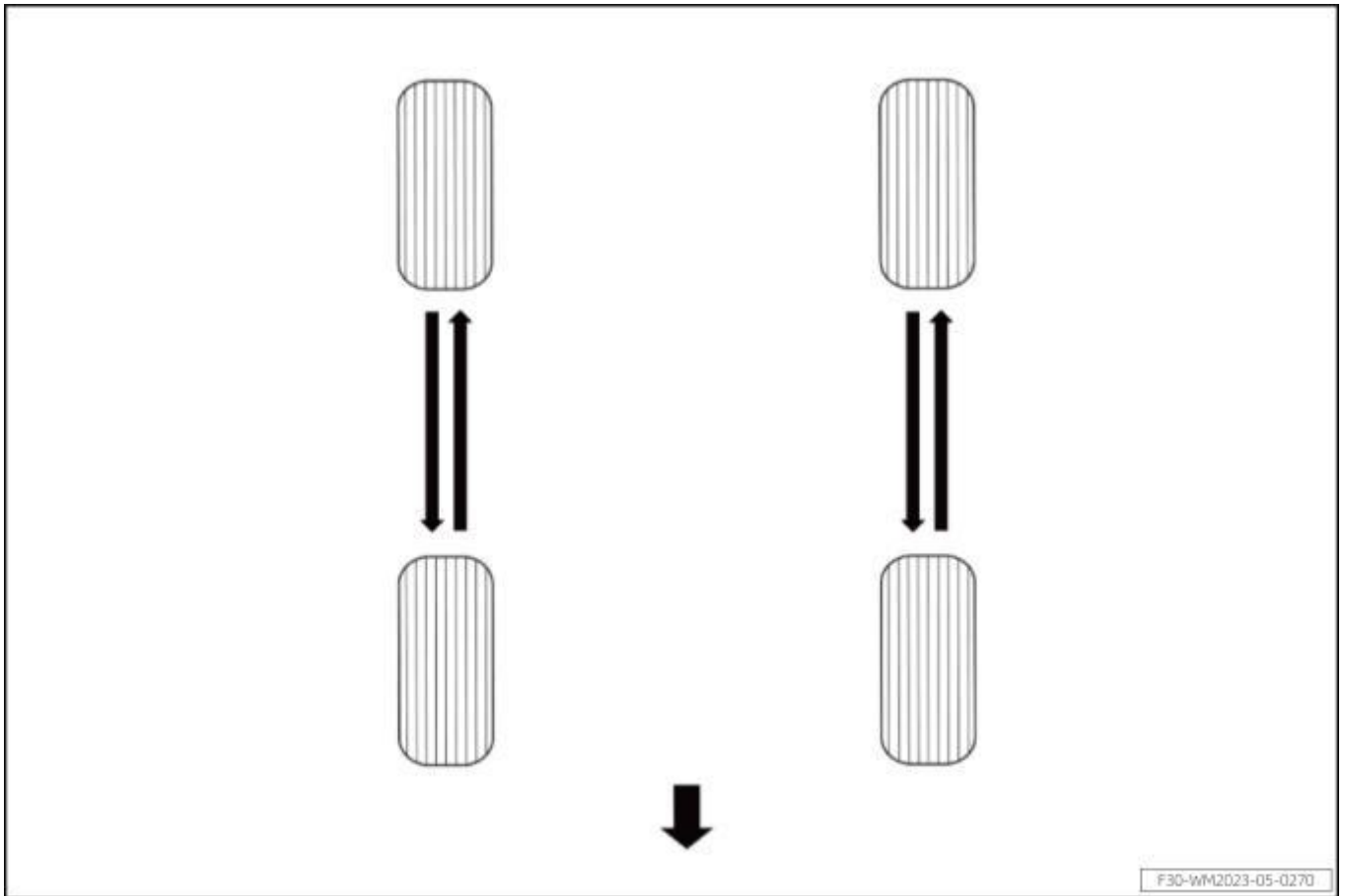
Please Follow the Tire Rotation Maintenance Schedule, See Maintenance Items and Schedule Chart.

When Installing Wheels, Tighten The Lug Nuts To The Specified Torque, See Wheel Assembly - Installation.

Rotate Tires as Shown in the Diagram.

Tire Rotation

Method: Swap Front and Rear, meaning move the front left tire to the rear left, the front right tire to the rear right, the rear left tire to the front left, and the rear right tire to the front right.



F30-WM2023-05-0270

Tips

The tire pressure will be automatically calibrated after the tire rotation. Please keep the vehicle stationary for at least 17min before calibration. During the calibration, drive the vehicle at a speed of over 40km/h for 10min and avoid reversing.

23. Battery

Battery testing

Testing Procedure

- 1 Press and hold the emergency power-off switch to power off the vehicle.

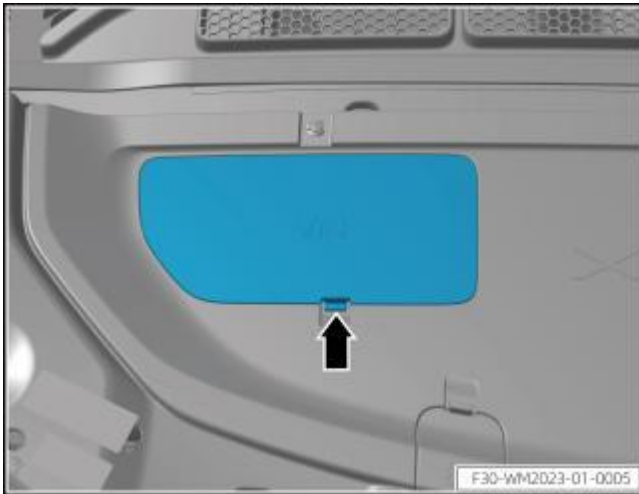
! Tips

- When the vehicle is stationary, press and hold the emergency power-off switch to power off directly.
- When the vehicle is driving, press and hold the emergency power-off switch for 5s, and a prompt pop-up window will appear on the ICM, and the vehicle can be powered off only after tapping to confirm
- When the vehicle is stationary, press the emergency power-off switch for 3 times within 2s to power off directly.



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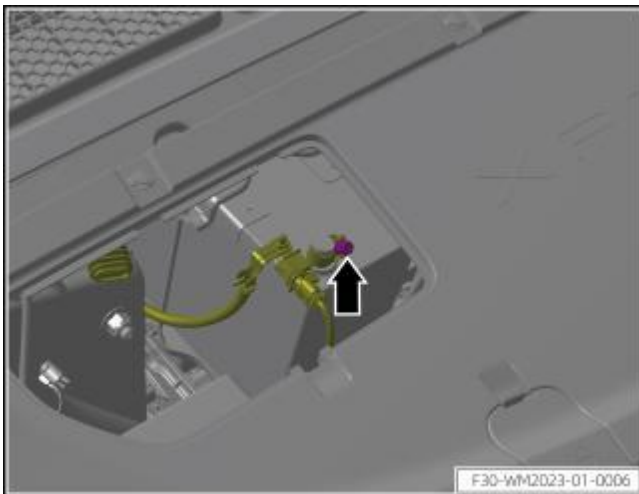
- 2 Disconnect the battery negative terminal



- a. Pry off the access cover in the direction of the arrow with a plastic pry plate

Recommended tools:

- Plastic pry plate



- b. Remove 1 fixing nut of the battery negative clamp, and disconnect the battery negative clamp.

Recommended tools:

- Nut: 10mm socket

- c. Confirm whether the high-voltage power supply is cut off by the following operations:

- Press the horn switch to check that the horn does not sound.
- Pull the high beam switch to check that the high beam is not on.
- Depress the brake pedal to check that both the instrument panel and the CID are not on.



- 3 Remove the fuse box upper cover.

- 4 Use a battery tester for testing.



- a. Attach the positive clamp of the battery tester to the positive pole of use box, and the negative clamp to the negative pole of battery.

Caution

Before using the battery tester, check whether the positive and negative terminal clips have protective rubber sleeves to avoid short circuit to the vehicle body during operation. Clamp the clips of the battery tester to the positive and negative terminals of the battery and make sure they are secure before next steps. If not, a "beep" sound will be heard.



- b. Select 12V based on the battery model of the vehicle and click OK



- c. Select the battery starting capacity and click OK.



- d. Select regular lead-acid battery based on the battery model of the vehicle, and click OK.



- e. Select CCA and click OK.



- f. Select 370A and click OK.



g. Get test results.

24. Rear disc brake lining gasket

Rear Disc Brake Pad - Removal

Tips

The maintenance steps are the operating procedures of part on the left side, which are the same as those on the right side.

Notes

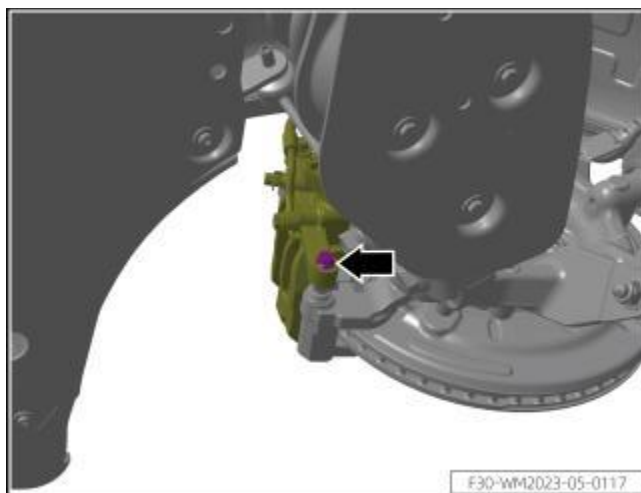
- The dust covering the brake calipers is harmful, so it must be removed with a vacuum cleaner. Do not use an air gun to blow the dust.
- When removing the disc brake lining or brake caliper body bracket, do not depress the brake pedal because that the piston may pop out.
- If brake fluid or grease gets stuck on the brake disc, wipe it off immediately.

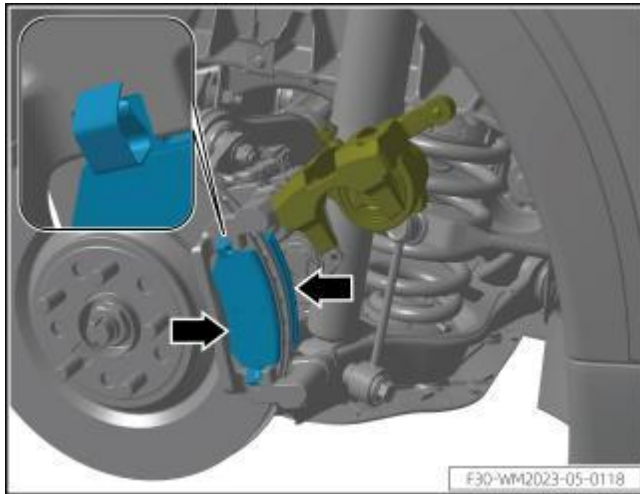
Disassembly Procedure

- 1 Execute 'Enter EPB Maintenance Mode', See Enter and Exit EPB Maintenance Mode.
- 2 Remove the Left Rear Wheel, See Wheel Assembly - Removal.
- 3 Remove the 1 Bolt Connecting the Left Rear Brake Caliper to the Left Rear Brake Caliper Bracket.

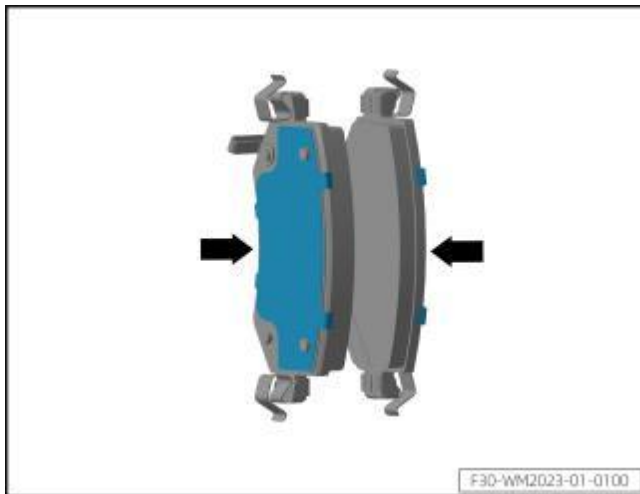
Suggested Tools:

- Bolt: 12mm Socket





- 4 Rotate the Left Rear Brake Caliper Upward to the Appropriate Position, Remove the Left Rear Brake Pad Assembly.



- 5 Remove and Detach the Inner and Outer Shims from the Left Rear Disc Brake Pad Assembly.

Rear disc brake lining gasket - installation

Tips

The maintenance steps are the operating procedures of part on the left side, which are the same as those on the right side.

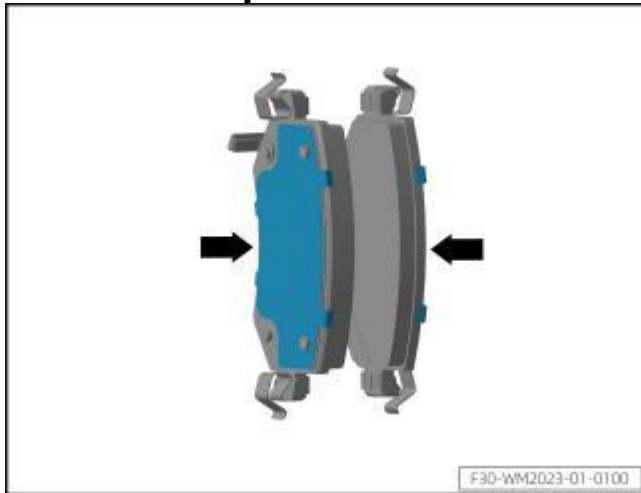
Warning

The dust covering the brake is harmful, so it must be removed with a vacuum cleaner. Do not use an air gun to blow the dust.

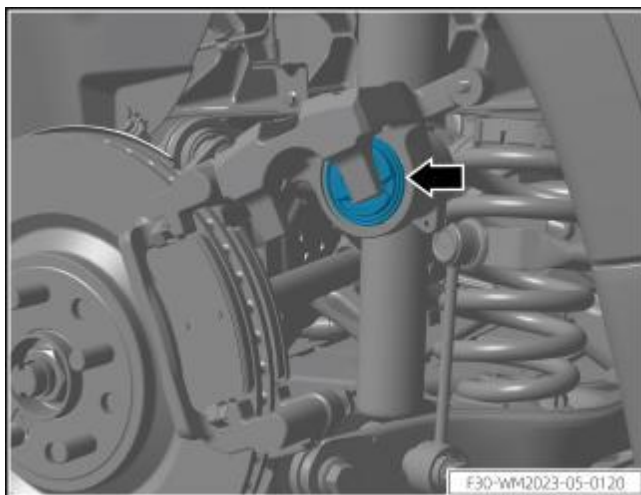
Caution

- When removing the brake lining or cylinder body bracket, do not depress the brake pedal because that the piston may pop out.
- If brake fluid or grease gets stuck on the brake disc, wipe it off immediately.

Installation procedure



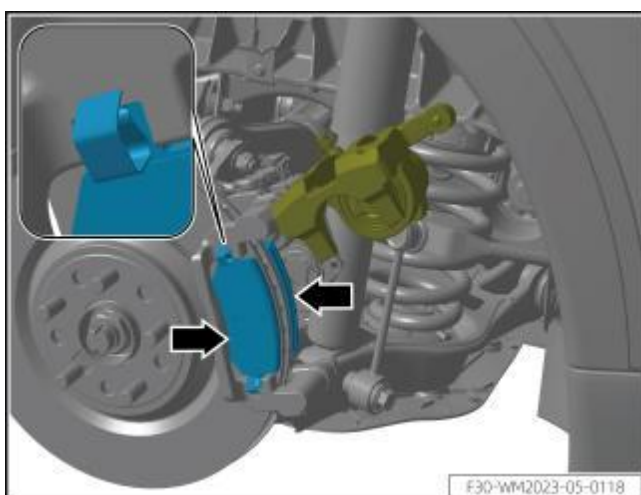
- 1 Install the inner and outer shims of the rear disc brake lining onto the left rear brake lining assembly.



- 2 Use the piston tool to push the caliper piston into the caliper piston hole.

Recommended tools:

- Piston: XTCZ9001 resetting tool of front/rear brake piston



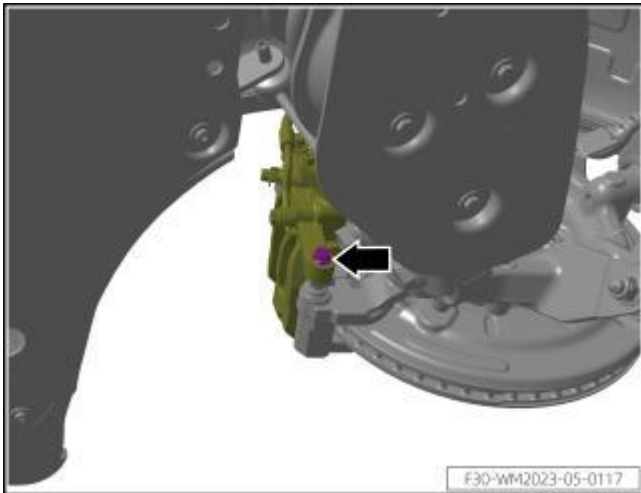
- 3 Install the left rear brake lining assembly and rotate the left rear brake caliper body downwards to the installation position.

Caution

Ensure that the rear brake lining mating surface is clean without oil stains, and the inside and outside of the rear lining mating should be consistent. Do not install it reversely.

Notes

- Ensure that the four lugs of the two brake linings are installed in place as shown in the left figure.



- 4 Install the 1 fixing bolt connecting the left rear brake caliper body to the left rear brake caliper bracket.

- **Bolt torque: 35Nm**

Recommended tools:

- Bolt: 12mm socket

- 5 Install the left rear wheel with reference to Wheel Assembly - Installation.
- 6 Execute "Exiting EPB Repair Mode" with reference to Entering and Exiting EPB Repair Mode.