

AUTOOL LM806

Refrigerant Recovery Machine

User Manual

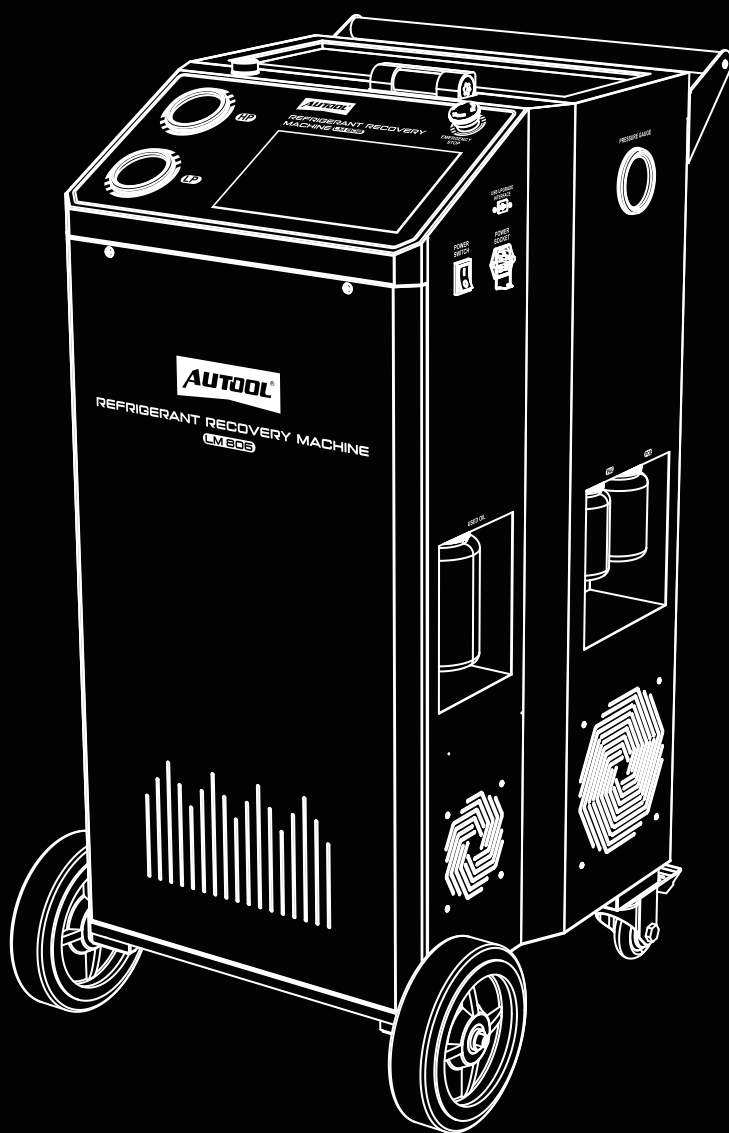


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COPYRIGHT INFORMATION

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TERMS OF SERVICE AND WARRANTY

NOTE

- The recovery, flushing/regeneration, and charging functions are intended for air conditioning systems equipped with R134a only.

Product information			
Record the serial number and manufacturing year of this machine for future reference. For details, please refer to the product label on the machine.			
Serial number:		Date of manufacture:	

Disclaimer

- The information, illustrations, and specifications contained in this manual are based on the latest information available at the time of publication. The right to make changes at any time is reserved, without obligation to notify any individual or organization of such revisions or modifications. Furthermore, the manufacturer is not responsible for any errors contained in this material or for any incidental or consequential damages (including loss of profits) arising from the provision, performance, or use of this material. If necessary, obtain additional health and safety information from the relevant government agencies, as well as from vehicle, refrigerant, and lubricant manufacturers.
-

Terms of service and warranty:

Thank you for choosing our product.

- This product is covered by a one-year warranty. Within the warranty period, any product quality issues not caused by human error will be repaired free of charge, with replacement parts provided by the dealer or manufacturer, and repair performed by personnel designated by the dealer or manufacturer.
 - After the one-year warranty expires, after-sales service will require payment for parts and repair costs.
 - For products or parts that require repair or replacement, please contact the dealer or manufacturer for confirmation and provide valid proof to ensure timely resolution of after-sales issues.
 - We have a comprehensive quality service system in place to ensure that any product quality issues are reasonably addressed.
-

The warranty does not cover the following situations:

- Damage to the product or its accessories caused by improper operation.
- Accidental damage to the product or accessories during transportation, storage, or handling.
- Damage or other losses resulting from replacement of product parts or use of the product for purposes other than its intended use.

IMPORTANT SAFETY INFORMATION

This product is designed to be operated by qualified and trained personnel. Operators should have sufficient knowledge of air conditioning maintenance, refrigeration, and high-voltage electronic equipment. Operation is permitted only after reading and understanding the safety warnings and operating procedures in this user manual and the vehicle service manual.

When using the equipment, basic safety precautions should always be followed to reduce the risk of personal injury and product damage.

This product is designed to be simple and reliable in selecting and performing all functions. Therefore, if the general safety guidelines below are followed, and the product is used and maintained correctly, the user will not face any risk (improper use or maintenance can compromise the safety of the product).

- ▶ Always check the vacuum pump oil before operation. Avoid working when the oil level is insufficient or the oil quality is poor.
- ▶ The refrigerant storage tank must be filled to no more than 80% of its maximum effective capacity to prevent serious accidents caused by additional pressure from environmental factors.
- ▶ Keep all hoses used with the product away from hot components and rotating parts, such as cooling fans and radiators.
- ▶ Check the vacuum pump oil regularly; running the pump without oil is strictly prohibited.
- ▶ Ensure the power switch is functioning normally. The machine must be properly grounded, and precautions should be taken to prevent electric leakage during use to avoid high-voltage hazards.
- ▶ Always operate according to the manual to avoid refrigerant contamination.
- ▶ Do not add contaminated refrigerant to the vehicle's air conditioning system.

- ▶ Avoid overfilling the refrigerant or exposing the storage tank to excessively high ambient temperatures, as this can cause overpressure and damage to the tank and compressor.
- ▶ Ensure the vehicle is in “PARK” (for automatic transmission) or “NEUTRAL” (for manual transmission). Then, engage the parking brake and place wheel chocks to prevent movement.
- ▶ Warning: The warnings, cautions, and instructions discussed in this manual cannot cover every possible situation. Operators must understand that common sense and prudence are factors not included in this product but must be provided by the operator.
- ▶ This product is an advanced electromechanical device containing precision control components. Disassembly or repair by untrained personnel is strictly prohibited.

WARNING



- ▶ **This product may only be operated by qualified personnel.**

Before operating the machine, read and follow the instructions and warnings in this manual. Operators must be familiar with the hazards associated with air conditioning and refrigeration systems, refrigerants, and pressurized components. If the operator cannot read this manual, the operating instructions and safety precautions must be read and discussed in the operator's native language.



- ▶ **The refrigerant storage tank contains liquid refrigerant.**

Do not overfill the machine's internal refrigerant storage tank, as overfilling may result in explosion and personal injury. Do not recover refrigerant into uncertified containers; only use refillable containers authorized by local government authorities.



- ▶ **Hoses may contain high-pressure liquid refrigerant.**

Handle refrigerant with care, as improper handling can cause serious injury. Wear protective equipment, including safety goggles and rubber gloves.



- ▶ **Avoid inhaling refrigerant and lubricant vapors or oil mist.**

Contact can cause personal injury, particularly to the eyes, nose, throat, and lungs. Use this product in a mechanically ventilated area, with ventilation providing at least four air changes per hour. If an accidental system discharge occurs, ventilate the work area before resuming service.



► **Do not use extension cords.**

Extension cords may overheat and cause a fire. If an extension cord must be used, use a standard oxygen-free copper cord with a minimum cross-section of 1 mm² and keep it as short as possible. To reduce the risk of fire, do not use this product near spilled or open containers of gasoline or other flammable substances.



► **Do not use compressed air to perform pressure tests or leak tests on equipment or vehicle air conditioning systems.**

Some mixtures of air and R134a refrigerant can be flammable at higher pressures. These mixtures pose a potential hazard that may result in fire or explosion, causing personal injury or property damage.



► **To prevent cross-contamination, this equipment must only be used with R134a refrigerant.**

This product is designed solely for the recovery, flushing, recirculating, and recharging of R134a refrigerant. Do not attempt to adapt this product for use with another type of refrigerant. Do not mix refrigerant types within a system or the same container; mixing refrigerants can cause severe damage to both the product and the vehicle's air conditioning system.



► **The equipment contains high-voltage electricity, which poses a risk of electric shock.**

Contact can cause personal injury. Disconnect the power before performing any maintenance on this product.



► **Keep level.**

During operation, this product must be placed on a level, flat surface to ensure accurate measurement.

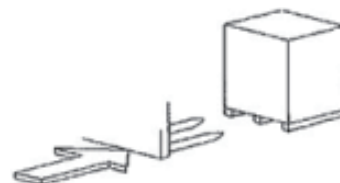


► **Protect the equipment from rain.**

Do not expose this product to direct sunlight or rain. It should be stored in a well-ventilated area.

TRANSPORTATION AND PACKAGING

- After packaging, there is no pressure in the refrigerant storage tank and piping system.
- Storage and transportation must follow the markings on the box. Avoid rain and observe the indicated orientation.
- Use a forklift to transport the goods. Avoid rough handling during transport.



- Ensure that the product and accessories in the packaging are complete and match the parts list; if not, contact your local dealer promptly.
- Proper handling of the packaging is the responsibility of the customer.
- The recommended mechanical service life is 5 years.
- Dispose of the machine in accordance with local policies, laws, and regulations.

ACCESSORIES

- Check the accessories against the packing list. If any parts are missing or damaged, contact the dealer promptly.

Photo	Name	Quantity
	User manual	1
	3-meter high-pressure and low-pressure hoses; 1.5-meter yellow hose	1 set
	High-pressure and low-pressure couplers	1 set
	Power cord	1

TECHNICAL SPECIFICATIONS

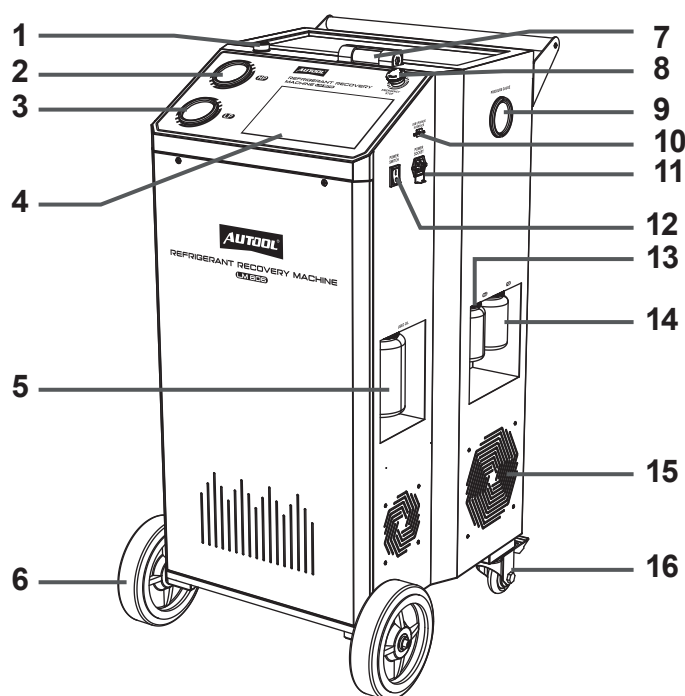
Name	Specification
Power supply	AC 220V 50Hz 1PH
Operating temperature	5~50°C
Vacuuming speed	60L/min
Compressor power	1/3HP
Applicable refrigerant type	R134a
Refrigerant electronic scale accuracy	±10g
Refrigerant electronic scale maximum load	40kg
Refrigerant storage tank capacity	12kg
Refrigerant oil electronic scale accuracy	±5g
Refrigerant oil electronic scale Maximum load	5kg
Pressure sensor range	-1~30bar
Pressure sensor accuracy	±0.1bar
Refrigerant recovery speed	>350g/min
Refrigerant charging speed	>800g/min
Maximum working pressure	20bar
Net weight / Gross weight	73kg/95kg
Packaging dimensions	68*64*129cm

PRODUCT DESCRIPTION

Features

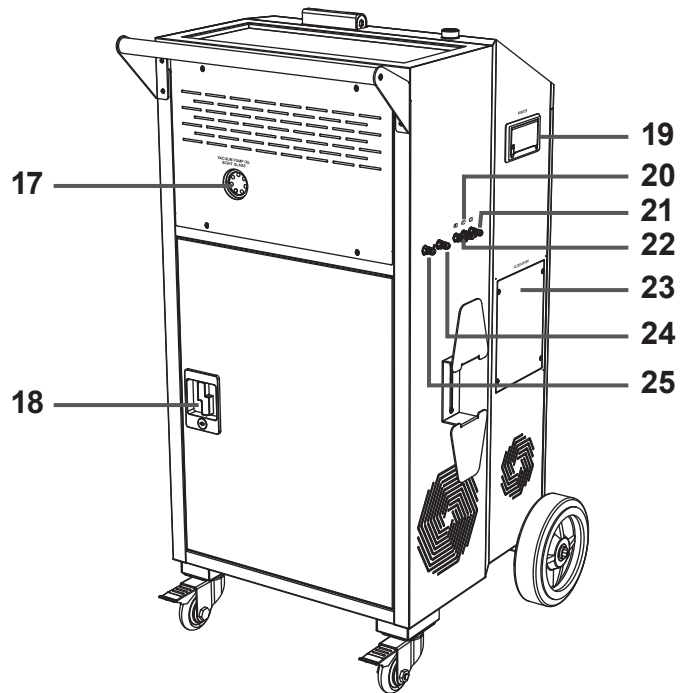
- Automotive air conditioning pipelines flushing without disassembly.
- Refrigerant recovery and purification.
- Separation and discharge of old refrigerant oil.
- Fully automatic vacuum leak detection.
- Air conditioning system vacuuming.
- Fully automatic quantitative charging of refrigerant and refrigerant oil.
- Fully automatic operation functions.
- Built-in vehicle database.
- Alerts for different refrigerant types.
- 10.1-inch TFT color capacitive touch screen for operation and display.
- Unit setting function.
- Pipeline compensation for more accurate charging.
- Electronic scale key parameter reset function.
- Thermal printer for printing operation records.
- Four electronic scales for accurate measurement of refrigerant and new / old refrigerant oil.
- Equipped with a large sight glass for clear visibility of the flushing process.
- Pipeline flushing function to remove residues and dirt left after system operation with a single button.
- Reserved charging interface for small refrigerant can, facilitating easy refrigerant addition.

CONTROL PANEL COMPONENT DESCRIPTION

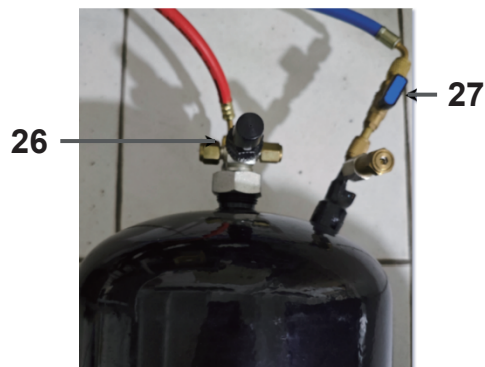


1	Audible and Visual Alarm: Indicates operation completion or error.
2	High-Pressure Gauge: Indicates the pressure on the high-pressure side.
3	Low-Pressure Gauge: Indicates the pressure on the low-pressure side.
4	Display Screen: Operation and display.
5	Used Oil Bottle: Collects waste oil from the vehicle air conditioning system.
6	Caster Wheels: 8 inches.
7	Sight Glass: Observe refrigerant and refrigerant oil during flushing and recovery.
8	Emergency Stop
9	Tank Pressure Gauge: Indicates pressure inside the storage tank.
10	USB Upgrade Interface
11	Power Socket: Connects the power cord.
12	Power Switch: Turns the machine on and off.
13	PAG Oil Bottle: Holds PAG refrigerant oil.
14	POE Oil Bottle: Holds POE refrigerant oil.

15	Cooling Fan: Cools the refrigerant storage tank.
16	Swivel Caster: 4-inch swivel casters with brakes.

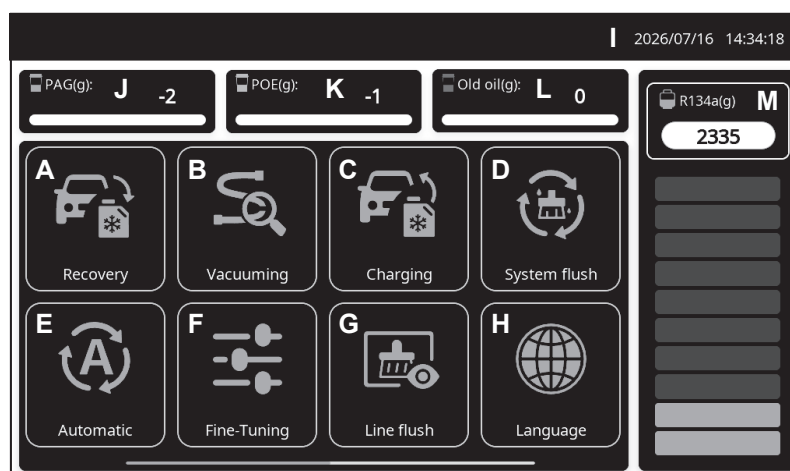


17	Vacuum Pump Oil Sight Glass: Observe the oil level and condition of the vacuum pump.
18	Rear Door Handle: Opens the rear service panel.
19	Printer
20	External Refrigerant Charging Port: Charging interface for small refrigerant can.
21	High-Pressure Port: Connects to the red hose.
22	Low-Pressure Port: Connects to the blue hose.
23	Filter Dryer
24	Low-Pressure Pipeline Flushing Port: Connects to the blue coupler.
25	High-Pressure Pipeline Flushing Port: Connects to the red coupler.

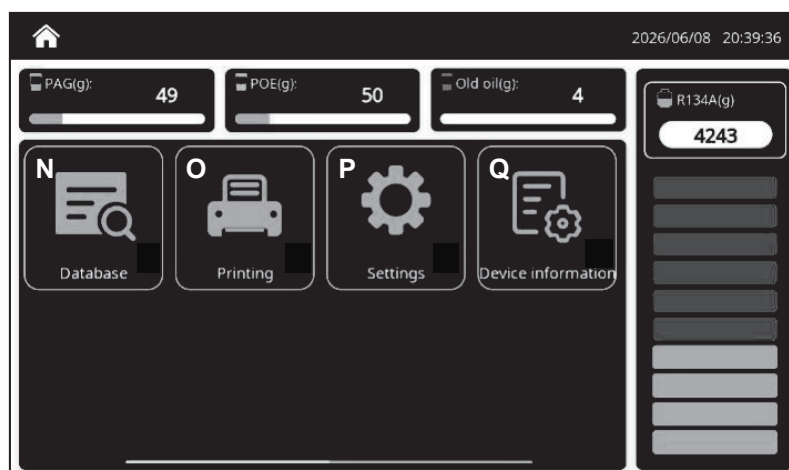


26	Liquid Phase Valve: Controls the flow of liquid refrigerant.
27	Gas Phase Valve: Controls the flow of gaseous refrigerant.

FUNCTION INTERFACE DESCRIPTION



A	Refrigerant Recovery: Recovers and regenerates refrigerant from the vehicle air conditioning system.
B	Vacuuming: Performs vacuuming first, then automatically executes the negative-pressure leak detection function.
C	Refrigerant Charging: Charges refrigerant and refrigerant oil into the vehicle air conditioning system.
D	System Flushing: Removes oil and contaminants from the vehicle air conditioning pipelines.
E	Automatic: After settings are completed, the entire process is performed automatically.
F	Fine-Tuning: When the vehicle A/C system is running, fine-tune excessively high or low system pressure by recovering or adding a small amount of refrigerant.
G	Pipeline Flushing: Flush residuals and contaminants inside the pipelines.
H	Language: Language selection.
I	Current date and time.
J	PAG Refrigerant Oil Weight.
K	POE Refrigerant Oil Weight.
L	Used Refrigerant Oil Weight.
M	Refrigerant Weight in Storage Tank.



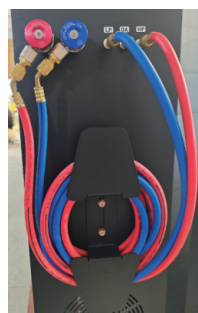
N	Database: Provides refrigerant type, compressor oil type, and charging amount (system initial charging amount)
O	Print: Prints data records generated during operation.
P	Settings: System maintenance and parameter settings.
Q	Device Information: Device-related identification and operation records.

PREPARATION BEFORE USE

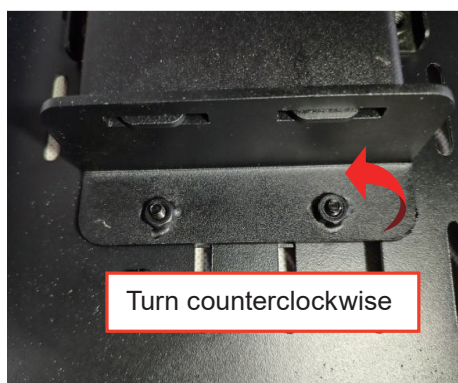
Accessory installation



Open the packaging and check that all accessories are complete.



Install the high- and low-pressure couplers, hoses, and power cord.



Turn counterclockwise



Loosen the protective screws on the electronic scale.

⚠ NOTE

- Keep the protective screws of the electronic scale in a safe place. If the product needs to be transported over a long distance, reattach the protective screws to the machine.

Checking the vacuum pump oil level



Check the vacuum pump oil level sight glass; the oil level must be within the marked lines and as close to the center as possible.

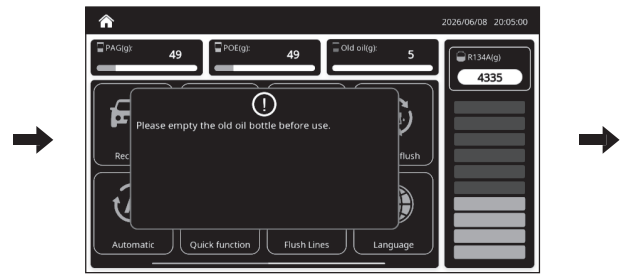


AC 220V 50Hz 1PH.

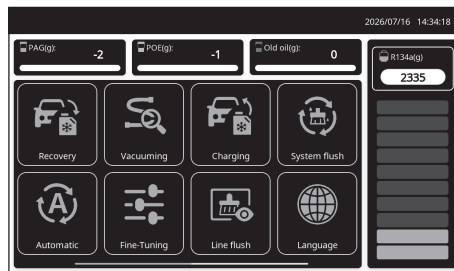




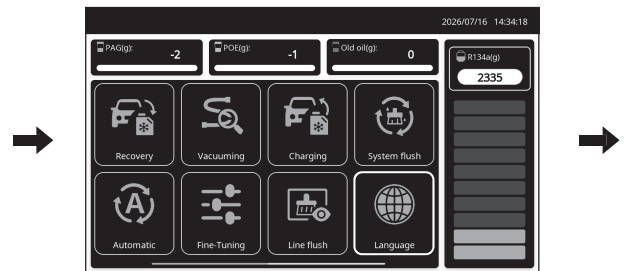
Toggle the power switch.



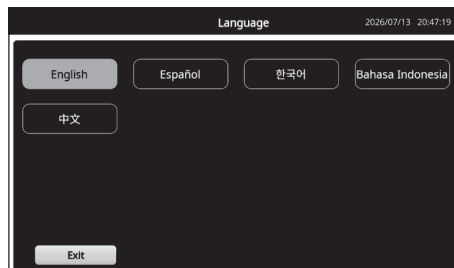
Follow the prompts; if there is old oil in the used oil bottle, empty it first.



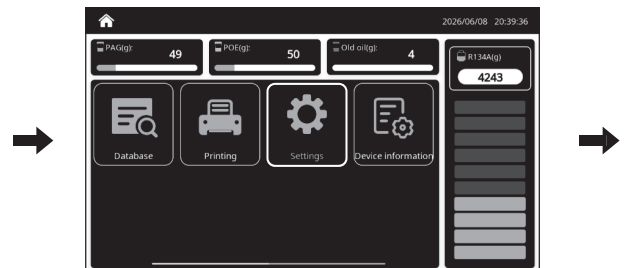
This prompt will automatically disappear after 5 seconds, or tap the screen to dismiss it.



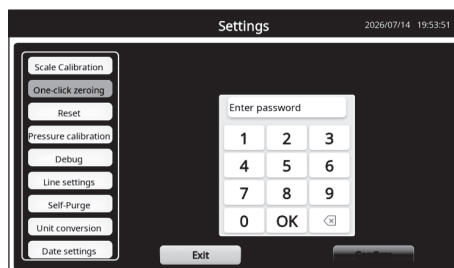
Tap the "Language" icon.



Swipe left or right to select the desired language, then tap the exit icon at the bottom to complete the language setting.

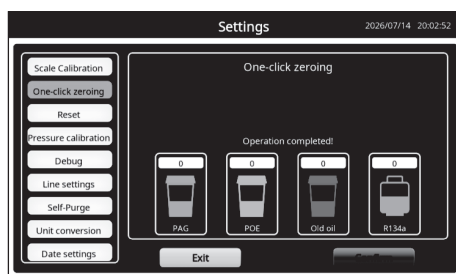


On the main function interface, select the "Settings" icon to enter the system settings interface.

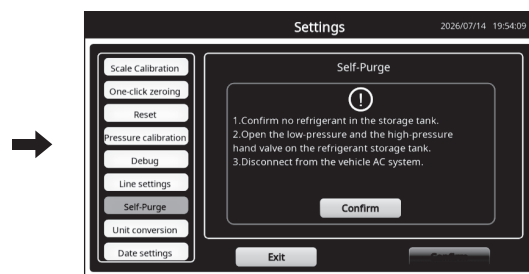


Swipe up and down on the left-side menu, tap the "One-Key Zeroing" button, enter the password, then tap the corresponding icon. After the value returns to zero, the zeroing operation for the corresponding electronic scale is completed.



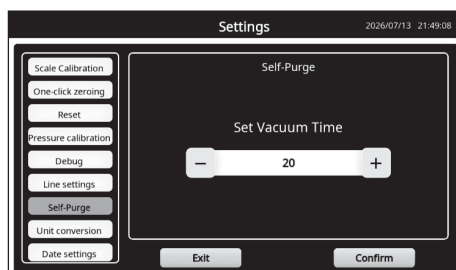


Note: Perform this operation only when the refrigerant storage tank and refrigerant oil bottles are empty; otherwise, it may cause functional abnormalities.



On the left-side menu, tap the “Self-Purge” function.

Warning: Before performing the system self-purge function on a new machine, ensure that there is no refrigerant in the machine’s pipelines or storage tank!



After tapping “Confirm,” adjust the flushing time by tapping the left or right arrows in the numeric box, then tap “Confirm” to start the operation.

Filling the refrigerant storage tank with refrigerant



NOTE

- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ Before filling the refrigerant storage tank, ensure that the system self-purge operation has been completed.
- ▶ Warning: When using a new machine for the first time, more than 3 kg of new refrigerant must be added to the machine’s refrigerant tank to ensure proper charging function. If the cleaning function is used, the refrigerant in the storage tank must exceed 4 kg.

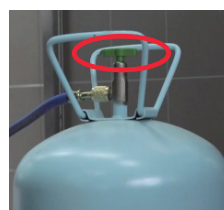


R134a
Weight ≥ 5 kg

Refrigerant Type:
For R134a use only!!!
Do not use any other type!!!



Remove the blue coupler.



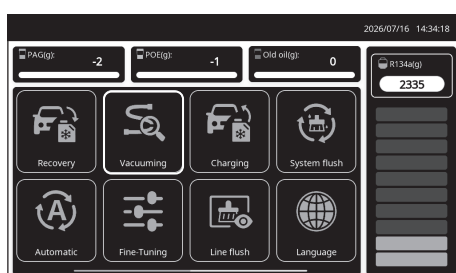
Do not open the tank's
valve yet!



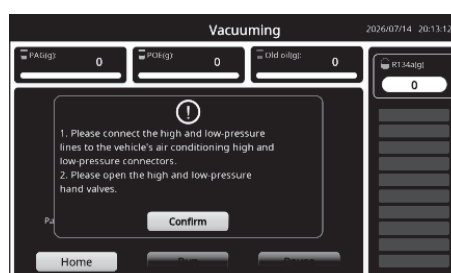
AC 220V 50Hz 1PH.



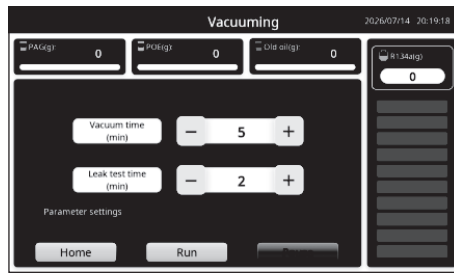
Turn on the power switch.



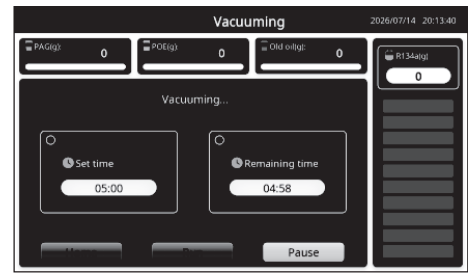
Tap the Vacuum function.



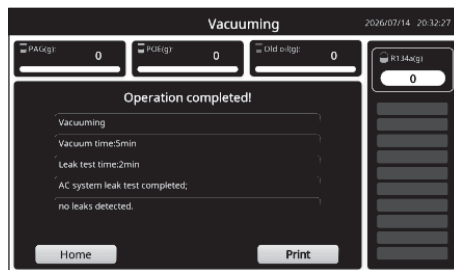
Follow the prompts and tap
"Confirm" when completed.



Use the + and – buttons to set the time. Since this is for vacuuming the pipelines, set the vacuum time to 5 minutes and the leak test time to 2 minutes, then tap the “Confirm” button.



Wait...

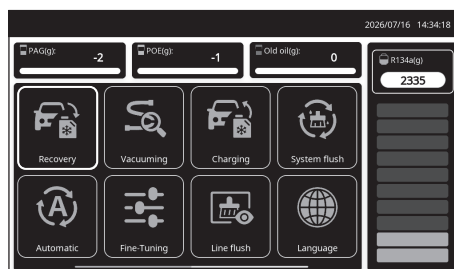


Wait for the operation to complete. The low-pressure gauge reading should be around -0.8 bar.

If the system is indicated as normal, proceed to the next operation. If an abnormality is detected, check the connection status of the fittings.



Open the refrigerant tank's manual valve and invert the tank.

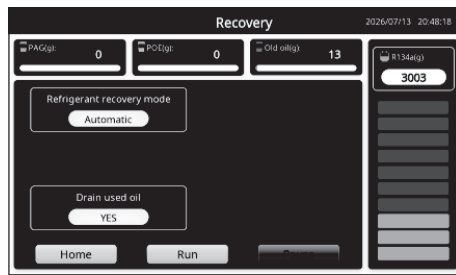


Tap the Recovery function.



Follow the prompts and tap “Confirm” when completed.





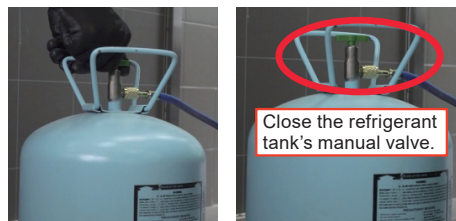
Tap the “Automatic” button to enter the desired recovery amount.

Note: When recovering the set amount, discharging used oil is prohibited, so the oil discharge option will be unavailable.

Tap “RUN” to start the recovery process.



When the recovery is complete, tap “Home” to exit.



Since the coupler has been removed during refrigerant replenishment, please close the manual valve of the external refrigerant tank first, then perform a second recovery to evacuate the residual refrigerant in the hoses.



Disconnect the low-pressure hose.



Reset the low-pressure coupler.



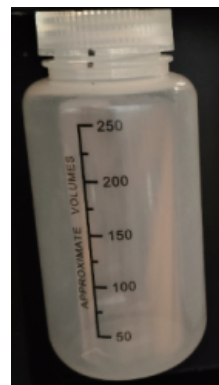
The new refrigerant has been filled, and the machine is ready for normal use.

Adding new refrigerant oil



NOTE

- The type and charging amount of compressor oil can be obtained through the following methods:
 1. Check the relevant labels in the engine compartment;
 2. Query the device database (Note: The database displays the initial charging amount of compressor oil. Please confirm the actual amount to be added according to the specific situation);
 3. Refer to the vehicle repair manual;
 4. Consult the vehicle manufacturer.



Take out the new oil bottle and add the corresponding refrigerant oil.

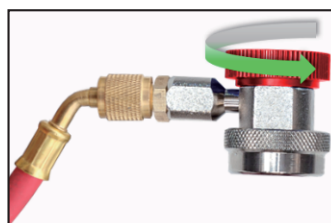
New Refrigerant Oil Level:
Add at least approximately 25 ml (one small scale mark) more than the required charging amount to prevent air from being drawn in due to insufficient compressor oil when adding oil to the vehicle A/C system.

OPERATING INSTRUCTIONS

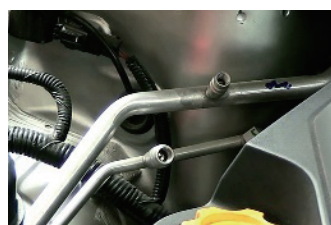
Connect the machine to the vehicle air conditioning system

⚠ NOTE

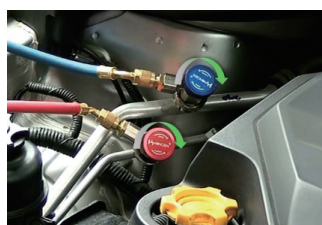
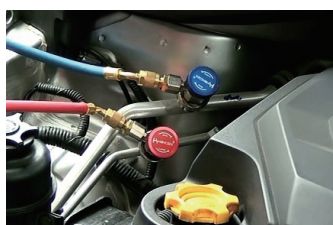
- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ Check whether the refrigerant in the vehicle air conditioning system is R134a. This equipment is only suitable for air conditioning systems using R134a refrigerant.
- ▶ Before connecting the quick couplers, clean any debris from the pipeline ports.



Before connecting to the vehicle, make sure the quick coupler valves are closed by turning counterclockwise.



If the vehicle's high- or low-pressure ports are dirty, they must be cleaned; otherwise, the quick coupler connection may leak.

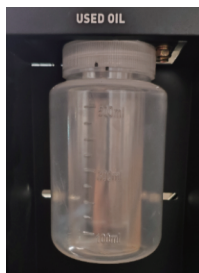


After proper connection, open the quick coupler valves by turning clockwise.

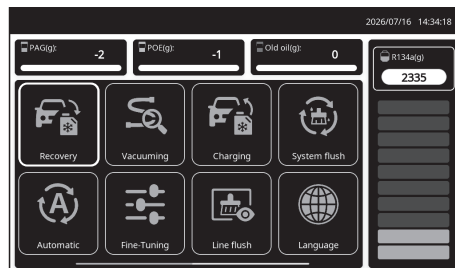
Vehicle air conditioning system refrigerant recovery

NOTE

- Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.



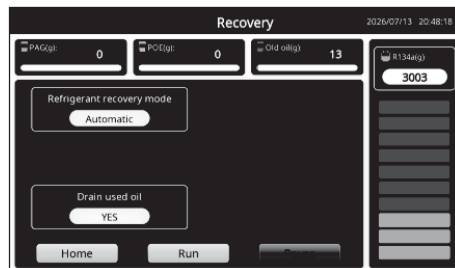
Empty the used oil from the used oil bottle.



Tap the “Recovery” function icon.



Verify the information, then press “Confirm” to proceed to the next step.



Tap the “Automatic” button to enter the recovery amount, or press the “Run” button directly to start the operation.



Wait...



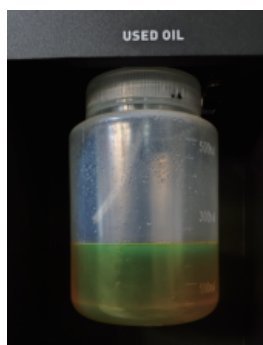
At this point, the high- and low-pressure gauge readings should be near or below the zero mark. Press the “Print” button to print the operation record of the current procedure.

Refrigerant recovery operation is complete. Click “Home” to return to the main interface.

Used refrigerant oil discharge

NOTE

- ▶ The discharged refrigerant oil is only a small amount of oil dissolved in the refrigerant. The amount of oil discharged varies between vehicles; some air conditioning systems may release only a minimal amount of refrigerant oil.

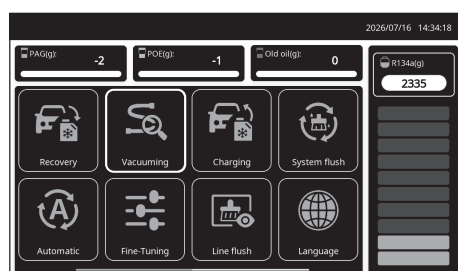


The amount of decomposed old oil can be used as a reference for the quantity of refrigerant oil needed when charging the current vehicle's air conditioning system.

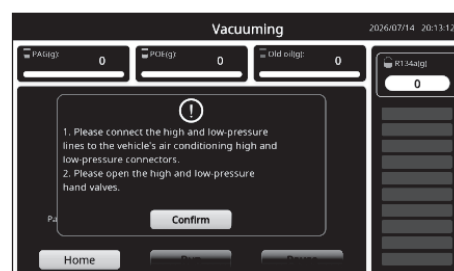
Vacuumping and leak test

NOTE

- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ Warning: Before performing this operation, the air conditioning system must be free of refrigerant.
- ▶ This function performs negative-pressure leak test.

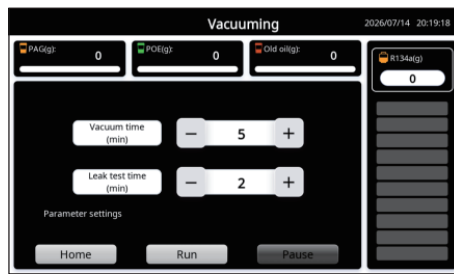


Tap the "Vacuum" icon.

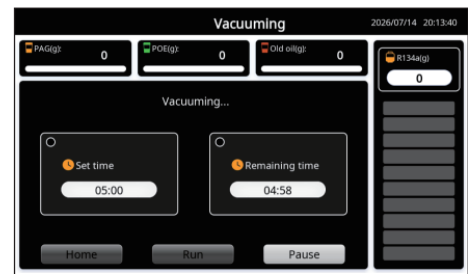


Verify the information on the screen, then press the "Confirm" button.

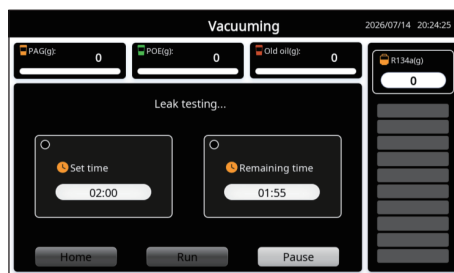




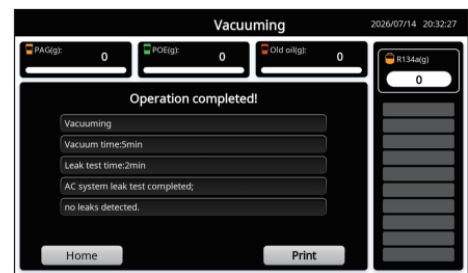
Use the + and – buttons to adjust the vacuum and leak test times, then press the “Run” button to start the operation.



Wait...



After the function execution is completed, the operation result will be displayed. Click “Print” to print the record of this operation.



Air conditioning system leak test completed. Click “Home” to return to the main interface.

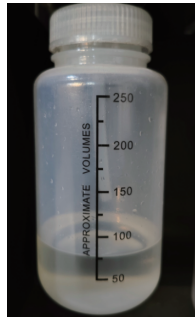
Refrigerant oil / refrigerant charging



NOTE

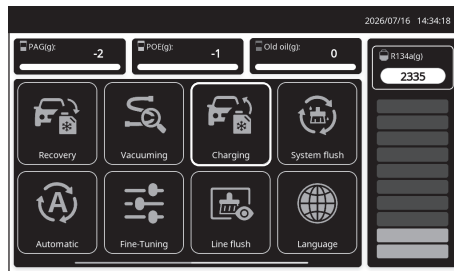
- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ Important Reminder: This function requires that the vehicle air conditioning system has been evacuated and maintained at maximum vacuum before performing the operation, and that the system has no leaks. Ensure the vehicle air conditioning is not running during charging.
- ▶ The refrigerant type and standard charge amount are usually indicated near the vehicle's engine compartment. If not found, refer to the database, the vehicle service manual, or consult the vehicle manufacturer.



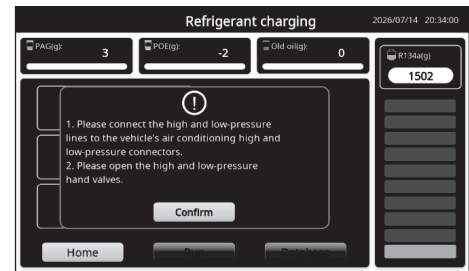


Based on the amount of old oil decomposed during the recovery process, add at least an additional 25 ml of new oil to the new refrigerant oil bottle.

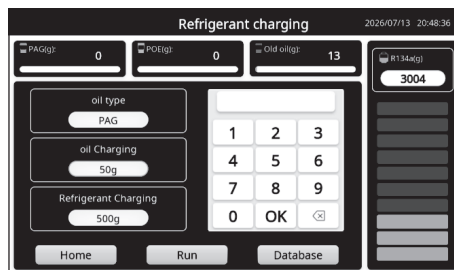
Check that the refrigerant level in the storage tank is maintained at ≥ 3 kg. If it is below this level, replenish the refrigerant in time; otherwise, the function will not operate properly.



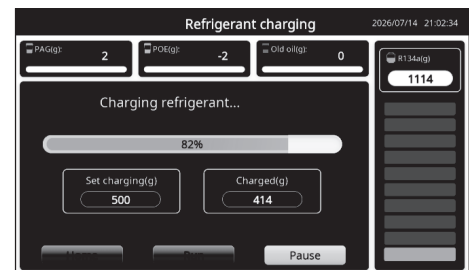
Tap the “Charging” function icon.



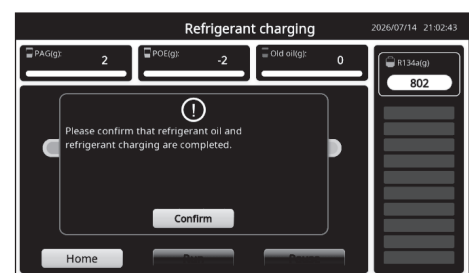
After confirming the prompt information, click “Confirm”.



Tap the left-side button to select the type of refrigerant oil and enter the required charging amounts for refrigerant and refrigerant oil. If no refrigerant oil is needed, enter 0 for the oil charging amount. After entering the values, tap “Run.”
Note: If you click “Compressor Oil Type” and switch the type, the pipeline flushing function prompt page will immediately pop up. Please follow the instructions to perform the relevant operations.

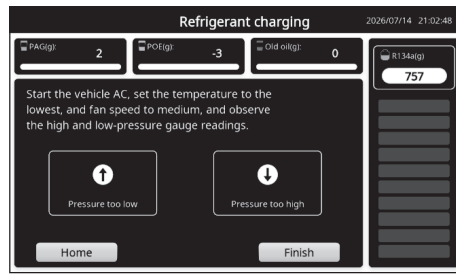


Wait...



A prompt will appear after the charging is completed. Check the prompt information and click “Confirm”.





Follow the prompts on the debugging interface to perform the corresponding operations!
Note: After the charging is finished, allow the system to sit for 5 minutes.



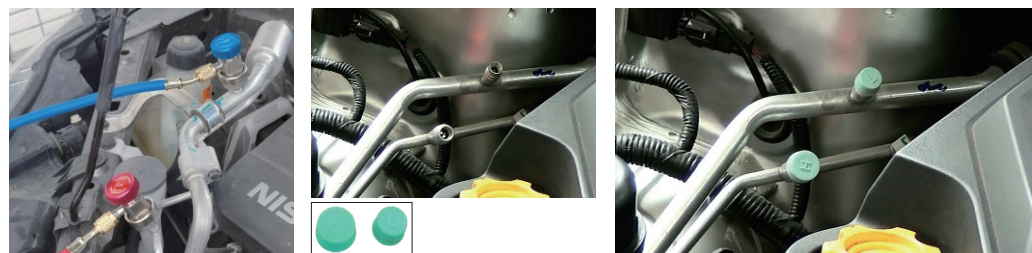
Start the vehicle engine and turn on the air conditioning, setting the temperature to the lowest.



Observe the high- and low-pressure gauges, and adjust the refrigerant charge or recovery amount using the screen buttons according to the real-time system pressure.



Once the air conditioning system pressure is confirmed to be normal, turn off the vehicle air conditioning and shut down the engine.



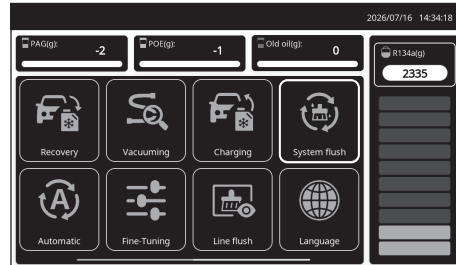
Disconnect the equipment from the vehicle air conditioning system and restore the vehicle's high- and low-pressure AC ports.
This completes the refrigerant charging function.

System flush

⚠ NOTE

- Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.

- Check the refrigerant amount in the storage tank; it must be greater than 4 kg. If it is below this level, replenish the refrigerant in time; otherwise, the function will not operate properly.



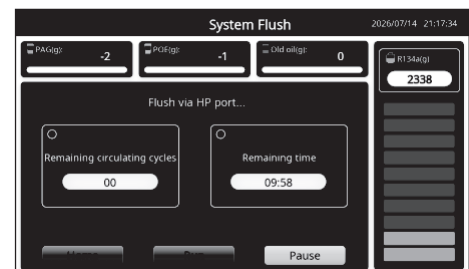
Tap “System Flush”.



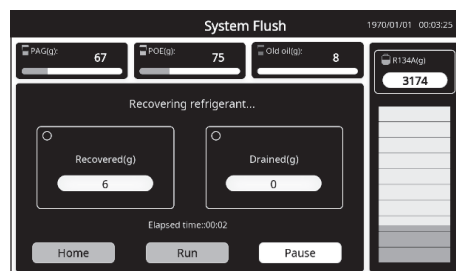
After confirming the prompt information, click “Confirm”.



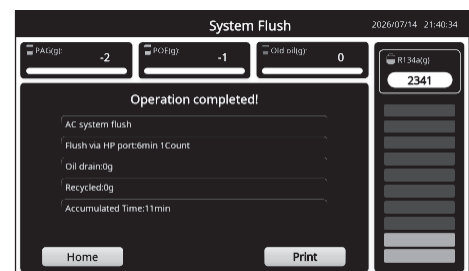
Adjust the cleaning function parameters, or keep the default values.
Click “Run”.



Wait...



After the flushing function is complete, the system will automatically recover the refrigerant from the air conditioning system.



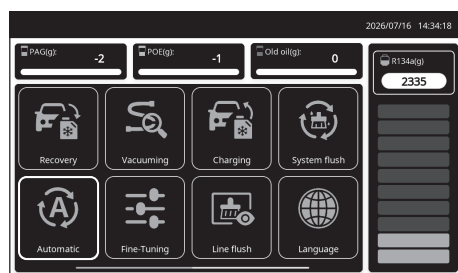
Air conditioning system flushing operation is complete. Click “Home” to return to the main interface.



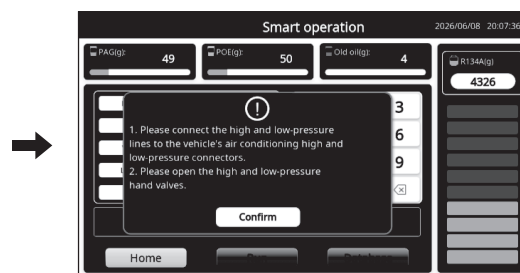
Intelligent operation

NOTE

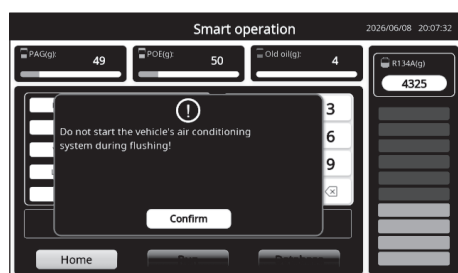
- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ The refrigerant type and standard charge amount are usually indicated near the vehicle's engine compartment. If not found, refer to the database, the vehicle service manual, or consult the vehicle manufacturer.
- ▶ Empty the used oil bottle and add the appropriate amount of new refrigerant oil to the new oil bottle.
- ▶ Check the refrigerant level in the storage tank; it must be maintained at ≥ 4 kg. If it falls below this level, it must be replenished promptly.



Tap "Automatic".



Verify the prompt information and tap "Confirm".



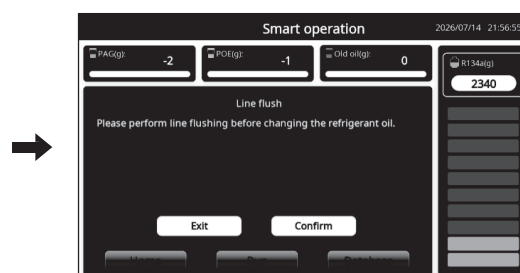
Verify the prompt information again and tap "Confirm".

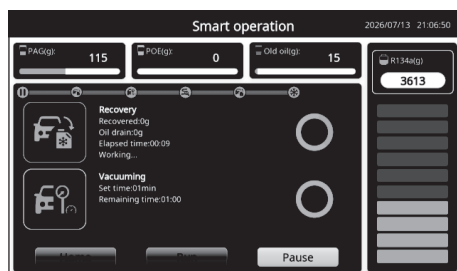


Click the left-side list to adjust the operation parameters, then click "Run".

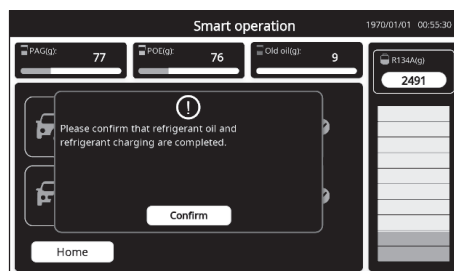


Before clicking "Run", if you need to select the compressor oil type, please follow the prompts to complete the operation.

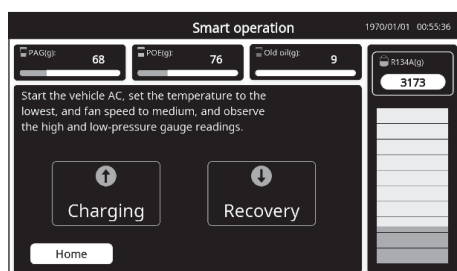




Wait...



Operation completed. Check the prompt information and click "Confirm".



Allow the system to sit for 5 minutes, then follow the on-screen instructions.



Start the vehicle engine, turn on the air conditioning, and set the temperature to the lowest.



Using the real-time readings from the high- and low-pressure gauges, fine-tune the refrigerant charge or recovery amount.



Once the air conditioning system is confirmed to be normal, turn off the air conditioning and shut down the engine.



Restore the vehicle's high- and low-pressure AC ports. When the operation is complete, tap "Home" to exit the current operation.

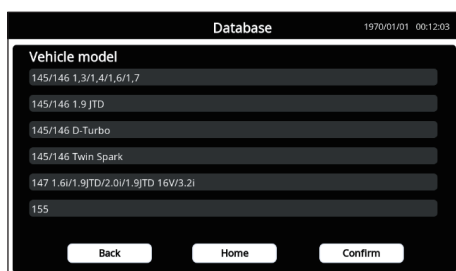
Database query



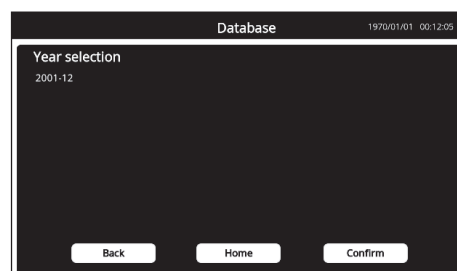
Click “Database”.



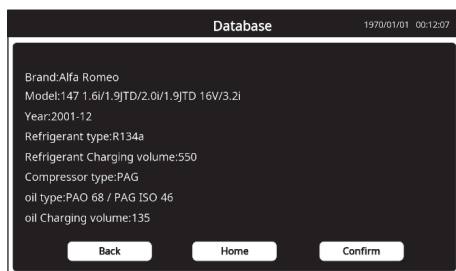
Swipe left or right to view other brands. Find the corresponding brand name and tap the icon.



Click the corresponding vehicle model.

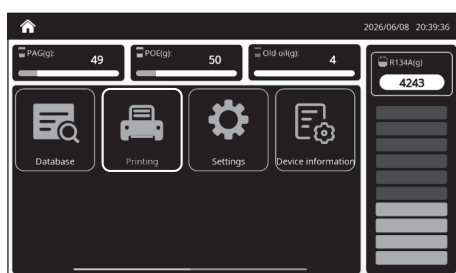


Click the corresponding model year.

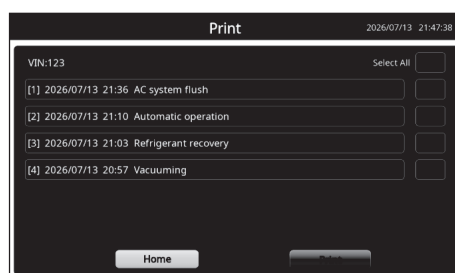


If the refrigerant type is other than R134a, the system will display a red warning. Click “Back” to return to the previous level or click “Home” to exit.

Printing



Click "Printing".



Click the number at the top of the window to modify the vehicle VIN.



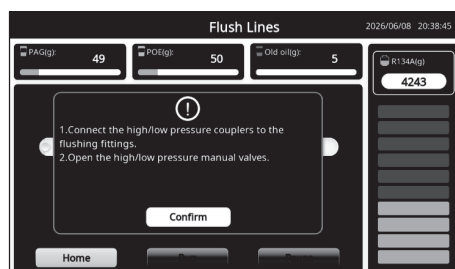
Tap "OK" to confirm the number.

Tap "Print" to print out the operation information.
Tap "Home" to exit.

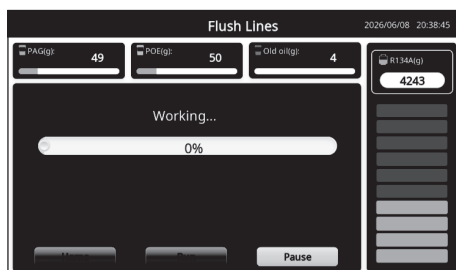
Flush lines



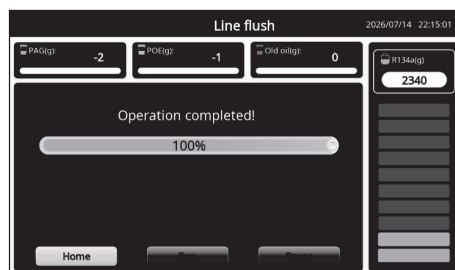
Click "Line Flush".



Check the prompt information and click "Confirm".



Wait...

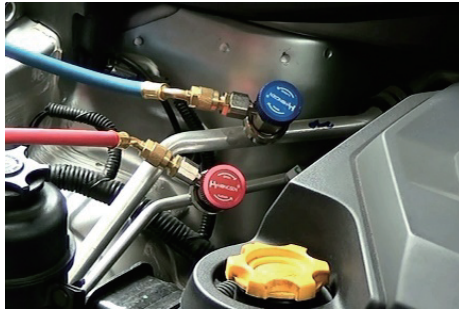


The "Flush Lines" function is complete. Click "Home" to exit.

Vehicle air conditioning system diagnosis

NOTE

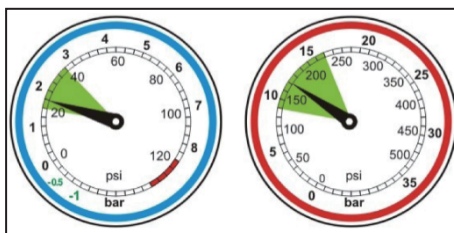
- ▶ When diagnosing the air conditioning system, the operator should be familiar with vehicle AC maintenance and use the pressure readings from the high- and low-pressure sides of the machine to identify possible fault points in the system.



Turn the coupler manual valve clockwise to open it.



Start the vehicle engine, turn on the air conditioning, and set the temperature to the lowest.



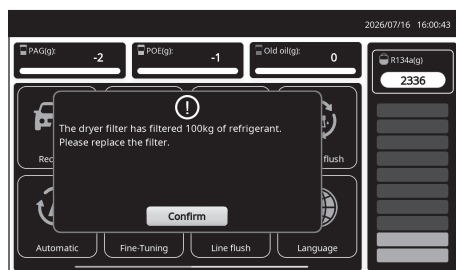
Observe the high- and low-pressure gauge readings to determine whether the vehicle air conditioning system is operating normally.

MAINTENANCE

Replacing the dryer filter

! NOTE

- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ Warning: High-pressure refrigerant may be present in the dryer filter and piping system. Perform refrigerant recovery before replacing the dryer filter. Wear protective equipment and handle with care when replacing the dryer filter to ensure personal safety.



When this prompt appears after the machine is powered on, it indicates that the dryer filter is approaching the end of its service life. Replace it promptly by following the steps below.



Open the panel for the dryer filter service port.



Use a properly sized wrench to remove the nuts at both ends of the dryer filter.

Install the new dryer filter onto the machine, paying attention to the installation direction.

- ➔ The new dryer filter must have the same specifications and dimensions as the old one.

After replacement, the refrigerant recovery counter needs to be reset to zero.

Vacuum pump oil replacement

⚠ NOTE

- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ To ensure optimal vacuum pump performance, replace the vacuum pump oil after the pump has operated for 600 minutes. If the vacuum pump oil appears degraded when viewed through the oil sight glass, the oil can be replaced earlier.



Check the level of contamination in the vacuum pump oil.



Oil Drain Screw

Unscrew the oil drain screw.



After draining the old vacuum pump oil, promptly reinstall the oil drain screw.



Open the vacuum pump oil filler cap.



Add new vacuum pump oil.



Observe the oil level through the sight glass and replace the filler cap.



Vacuum pump oil replacement is complete.

Calibrating the refrigerant electronic scale

⚠ NOTE

- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ If you are unsure of the accuracy of the electronic scale on the machine, you can calibrate it by following the steps below.



Prepare a 5 kg standard weight, or another certified standard weight. It must be an accurate standard weight, as the calibration procedure uses this weight as a reference. If the standard weight is inaccurate, the machine will display incorrect readings!



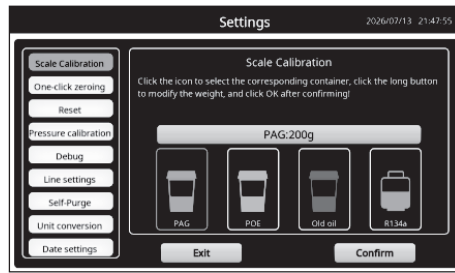
Ensure that the electronic scale's protective screw has been loosened.



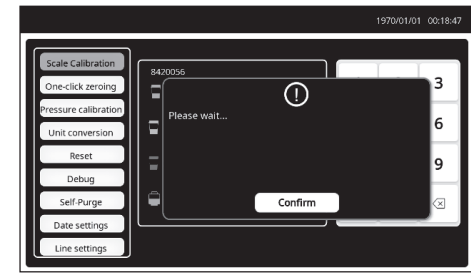
Tap "Settings."



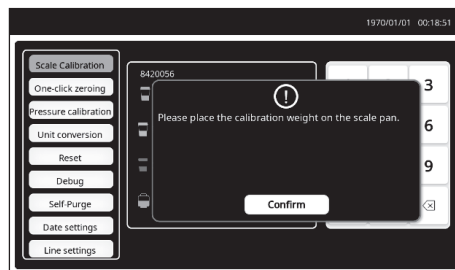
Click "Electronic Scale Calibration" and enter the password: 6789.



Select "R134a." For the default refrigerant storage tank electronic scale, the reference weight is 200 g. Tap the "200 g" value frame and enter the actual standard weight using the numeric keypad, then tap "Confirm."



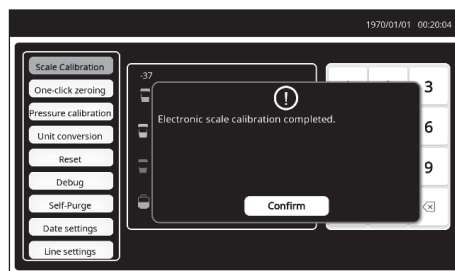
Wait...



Place the reference standard weight on the scale platform or the refrigerant storage tank.



Wait...



Tap "Confirm" to remove the reference standard weight.

Refrigerant electronic scale calibration is complete.

Calibrating the refrigerant oil electronic scale

⚠ NOTE

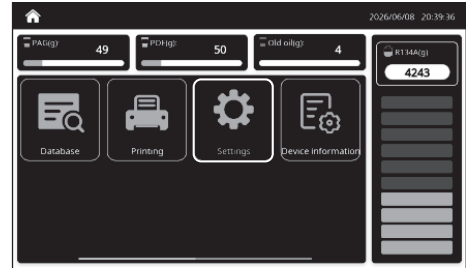
- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ If you are unsure of the accuracy of the refrigerant oil electronic scale, you can calibrate it by following the steps below.



Prepare a 200 g standard weight, or another certified standard weight. It must be an accurate standard weight, as the calibration procedure will use this weight as a reference. If the standard weight is inaccurate, the machine will display incorrect readings!



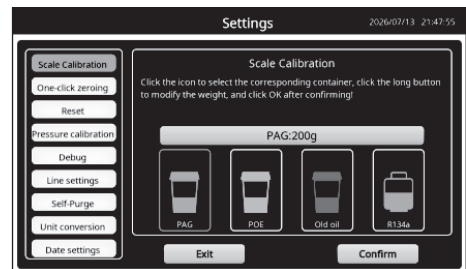
Empty the corresponding refrigerant oil bottle.



Tap “Settings”.

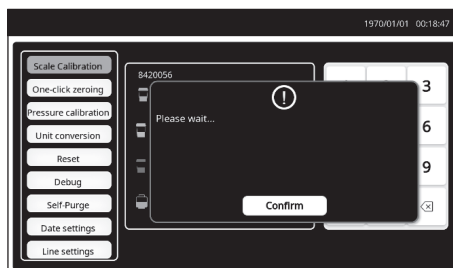


Tap “Scale Calibration” and enter the password 6789.

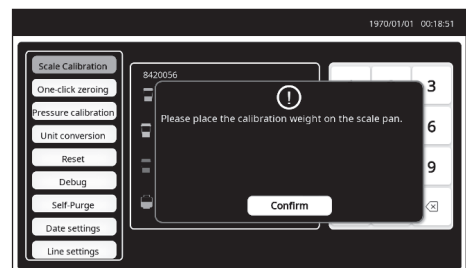


Select “PAG,” “POE,” or “Old Oil.”

The default reference weight is 200 g. Tap the “200” value frame, enter the actual standard weight, and then tap “Confirm”.



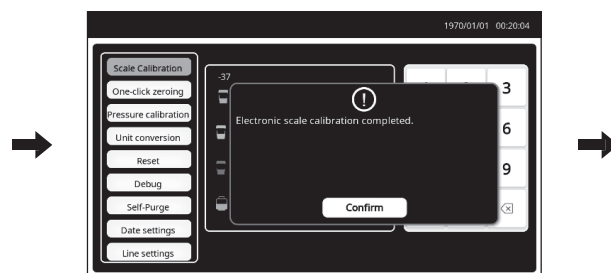
Wait...



Place the reference standard weight into the corresponding oil bottle according to the instructions.



Wait...



Tap “Confirm” and remove the reference standard weight, then restore the oil bottle.

Refrigerant oil electronic scale calibration complete.

Clearing the refrigerant storage tank weight

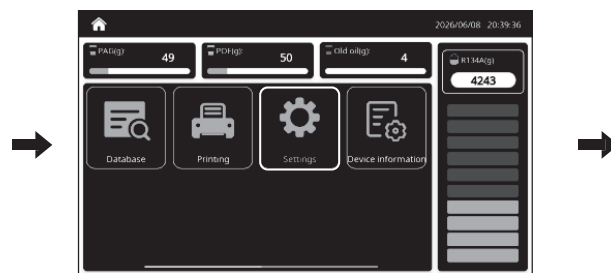
NOTE

- Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.

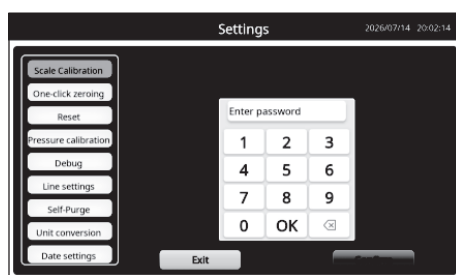


Place the refrigerant storage tank on the scale platform, and ensure the hoses are properly connected.

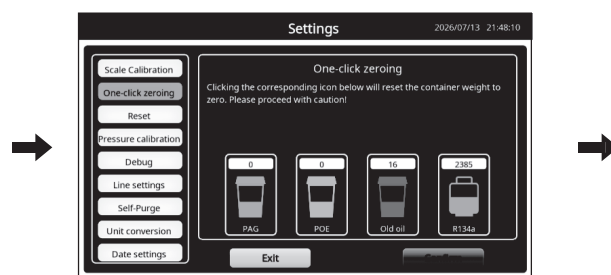
Note: The refrigerant storage tank must be empty and contain no refrigerant!



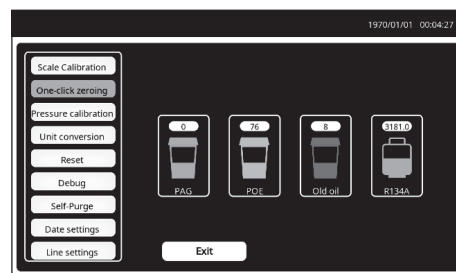
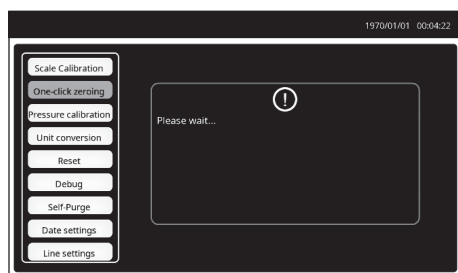
Tap “Settings”.



In the left-side menu, tap “One-click Zeroing” and enter the password.



Tap the icon for the corresponding refrigerant storage tank that needs to be reset—“R134a.”



When the number on the corresponding icon becomes 0, the zeroing is complete.

Non-condensable gas discharge from refrigerant storage tank

⚠ NOTE

- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ It is recommended to check the refrigerant storage tank for non-condensable gas before the first use of the product each day. If non-condensable gas is present, it can be discharged as follows.



Check and record the pressure of the refrigerant storage tank.



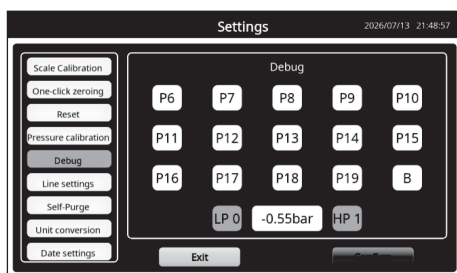
Measure the temperature of the refrigerant tank using a thermometer (thermometer provided by the user).

R134a=R1234yf			
Ambient temperature		Pressure value	
°C	°F	Bar	Psi
6	43	2.6	38
8	46	2.9	42
10	50	3.1	45
12	54	3.4	50
14	57	3.7	54
16	61	4.0	58
18	64	4.4	63
20	68	4.7	68
22	72	5.1	74
24	75	5.5	79
26	79	5.8	85
28	82	6.3	91
30	86	6.7	97
34	93	7.6	110
38	100	8.6	125
42	108	9.7	141
46	115	10.9	158
50	122	12.2	176

Refer to the standard temperature-to-pressure reference table.

If the refrigerant storage tank pressure is higher than the pressure corresponding to the standard temperature, power on the machine and go to "Settings", then select the "Debug".





Tap “P19” to open the pressure relief valve and perform the gas discharge operation.

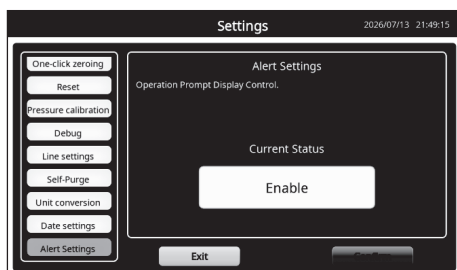
➔ Note: When discharging non-condensable gas, continuously monitor the tank pressure gauge. Stop the discharge promptly when the pressure reaches the value corresponding to the temperature.

The machine has a pressure protection feature: if the refrigerant storage tank pressure exceeds 20 kg, it will automatically perform a pressure relief operation.

Close the prompt frame

⚠ NOTE

- ▶ Warning: To prevent personal injury when handling refrigerant, read and follow the instructions and warnings in this manual, and wear protective equipment such as safety goggles and gloves.
- ▶ The prompt frame mainly serves to remind you of the prerequisite precautions for the operation, ensuring that the step can be performed accurately.



➔ After turning off the prompts, all prompt frames will no longer appear, and the operation will proceed directly to the next step.

After powering on, go to “Settings”.
Swipe up the left-side menu and select “Prompt Tone”.

MAINTENANCE SERVICE

Our products are made of long-lasting and durable materials, and we insist on perfect production process. Each product leaves the factory after 35 procedures and 12 times of testing and inspection work, which ensures that each product has excellent quality and performance.

- Maintenance** To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully:
- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
 - Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
 - Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable. Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time.
 - Adjust the clearance of various parts and replace worn (broken) parts. Avoid contact with corrosive liquids.
 - When not in use, please store the product in a dry place. Do not store the product in hot, humid, or non-ventilated places.

WARRANTY

From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.

Warranty access

- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

These conditions below shall not be in warranty range

- The product is not purchased through official or authorized channels.
- The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

Disclaimer

- All information, illustrations, and specifications contained in this manual, AUTOOL reserves the right of modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product. Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.

RETURN & EXCHANGE SERVICE

Return & Exchange

- If you are an AUTOTOOL user and are not satisfied with the AUTOTOOL products purchased from the online authorized shopping platform and offline authorized dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.
- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOTOOL will inspect the returned items to ensure that they are in good condition and eligible. Any item that does not pass inspection will be returned to you and you will not receive a refund for the item.
- You can exchange the product through the customer service center or AUTOTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOTOOL Customer Service.

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