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DIESEL HEATER

We continue to be committed to provide you tools with competitive price. "Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

VEVOR[®]

TOUGH TOOLS, HALF PRICE

DIESEL HEATER

MODEL:XMZ-L-D4



XMZ-W-D4



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us: **Technical Support and E-Warranty Certificate**
www.vevor.com/support

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

Symbol	Symbol Description
	Warning: To reduce the risk of injury, the user must read the instructions manual carefully.
	This symbol, placed before a safety comment, indicates a kind of precaution, warning, or danger. Ignoring this warning may lead to an accident. To reduce the risk of injury, fire, or electrocution, please always follow the recommendations shown below.
	CORRECT DISPOSAL: This product is subject to the provision of European Directive 2012/ 19/EC. The symbol showing a wheelie bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.
	Warning: Toxic material. Take care to avoid coming into contact with toxic material.
	Warning: Flammable material. Take care to avoid causing a fire by igniting flammable material.

SAFETY INSTRUCTION

**WARNING:**

Read all safety warnings, instructions, illustrations, and specifications provided with this diesel heater. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

1. The following measures shall not be adopted
 - Change the important component of the diesel heater.
 - Make use of spare parts from other manufacturers without permission.
 - Disobey the instruction and guide during installation or operation.
2. Only allow using original attachments and spare parts during installation and maintenance.
3. The heaters shall not be used in places where they may form flammable vapor or dust, for example:
 - Fuel depot
 - Carbon storehouse
 - Timber storehouse
 - Granary and similar sites
 - Diesel/petrol stationAnd keep away from fuel tanks, compression tanks, fire extinguishers, clothes, or other flammable objects.
4. Do not use cigarette lighter for startup.
5. Do not use the heater in closed and/or unventilated places.
6. The heaters shall be turned off when filling fuel.
7. Do not cut off the electric power in operation.
8. If the fuel leaks or discharges from the fuel system of heaters, please contact VEVOR for repair.
9. Place the exhaust outlet outside to prevent any penetration of exhaust fumes.
10. In the process of work, it is forbidden to cut off the electric power directly to stop the heater from working.
11. Seal all gaps between the mounting plate and the car body.
12. The machine will stop heating after over-temperature protection. Please do

not power off. After the machine is naturally cooled and turned off, it can be restarted.

13. After turning off the machine, please do not immediately disconnect the power supply. It takes 3-5 minutes for the machine to stop working completely.

14. After starting the machine for 3-5 minutes, it will work normally and heat up. Please wait patiently.

15. When the heater is just started, the current is relatively high, so an adapter with a voltage of 12-24V and a current of 12A or greater is required for the power supply.

16. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be done by children without supervision.

17. WARNING: Flammable material



During installation/use, service, and disposal of the appliance, please pay attention that there should be no flammable substances around the exhaust pipe. The temperature of the exhaust pipe is very high when it is working. Take care to avoid causing a fire by igniting flammable material.

18. WARNING: Toxic material



19. During installation/use, service, and disposal of the appliance, please install the appliance with space for ventilation to prevent carbon monoxide poisoning. Place the exhaust outlet outdoors to prevent exhaust gas from seeping in.

SAVE THESE INSTRUCTIONS

FCC INFORMATION

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This product may cause harmful interference.
- 2) This product must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this product are not expressly approved by the party. Responsibility for compliance could void the user's authority to operate the product.

Note: This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the product and the receiver.
- Connect the product to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

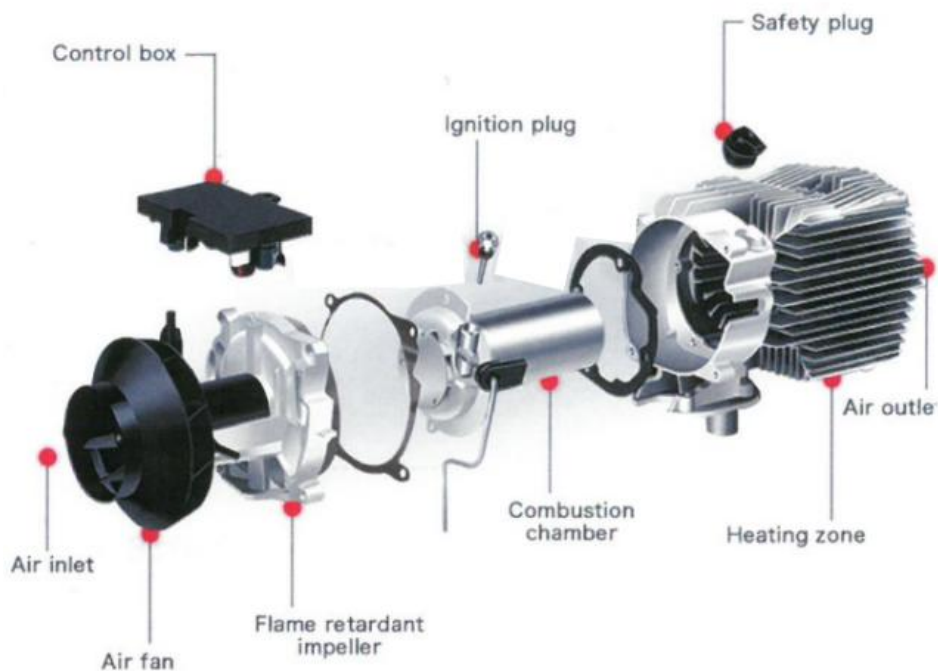
PRODUCT FUNCTION

1. The diesel heater (hereinafter referred to as the heater) is independent of the original engine system. It makes use of a 12-24V direct current to drive. There are two kinds of control modes for the heater: Automatic control mode and Manual

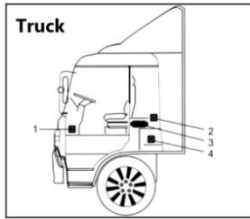
control mode. The heater adopts light diesel, which corresponds to the environmental temperature as fuel, and it can be started and operated normally at a temperature of above 40N. The inhaled fresh air is heated to hot air through the heat exchanger by the energy that comes from burning fuel, then blown to where it is needed. This type of heater has the advantage of compact structure, lightweight, high thermal efficiency, economy of electricity and fuel, and easy installation.

2. The heater gets rid of damage to the car caused by the sudden drop in temperature, improves the temperature inside the car, and preheats the engine coolant to avoid engine wear at low temperature. Conducive to car interior thawing, car start, and car glass defrost fog.

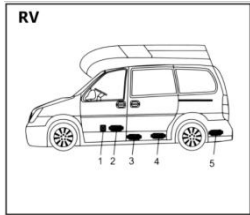
INTERNAL STRUCTURE



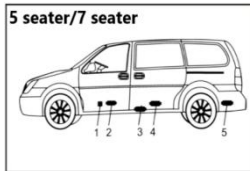
INSTALLATION POSITION



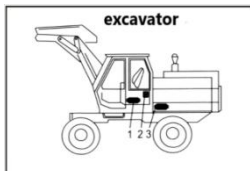
1. On the co-driver's legroom.
2. On the back wall of the cab.
3. Driver's seat backrest.
4. Within the tool box.



1. In front of the passenger seat.
2. Between the driver seat and passenger seat.
3. 3&4 under the container.
4. In the trunk.



The heater is mainly installed in the passenger room or baggage room of the vehicle. If it cannot be installed, fix the heater under the underside of the vehicle, but be ware of splashing.



1. Inside the driver's seat.
2. On the back wall of the cab.
3. Inside the protection box.



1. Installed in the garage against the wall
2. There should be no foreign objects blocking the front and rear air vents.
3. No flammable materials around the exhaust pipe



1. Installed against the wall of the warehouse
2. There should be no foreign objects blocking the front and rear air vents.
3. No flammable materials around the exhaust

The installation of the machine requires



professional personnel to install it.

MODEL

Model	XMZ-W-D4	XMZ-L-D4
Appearance		
Power ZWH	8KW	8KW
Heating medium	Air	Air
Fuel	Diesel	Diesel
Ratings	DC12-24V/40W	DC12-24V/40W

PACKING LIST

Model		XMZ-W-D4	XMZ-L-D4
Main engine		1	1
Intake pipe		1	1
Exhaust pipe		1	1
Blowpipe		1	1
Remote control		1	1

Silencer with 1 fixing piece and 2 screws		1	1
Blowpipe clamp		2	2
Clamp		4	4
Pipe clip		2	2
Air filter element		1	1
Nut		4	4
Screw for the lock catch		10	10
Adapter		1	1
Exhaust pipe fixing seat		1	1
External wiring		1	1
Screw rod		4	4
Silencer retaining screw		1	1
Air vent		1	1
Silencer bracket		1	1

Refer to the installation diagram below and carefully read the precautions when installing or using:

1. No Side Installation:

※ Side installation of the diesel heater will result in oil leaks inside the machine after a period of use, producing a large amount of smoke and carbon monoxide poisoning. During installation, leave a space of 10cm around the heater to ensure

good ventilation.

※ If installing the heater inside a building: ① With the heater placed indoors: Make holes in the wall for the exhaust pipe to be placed outdoors. Pay attention to insulating the exhaust pipe as it can become very hot and could cause a fire. ② With the heater placed outdoors: It's necessary to extend the exhaust pipe to avoid the exhaust from being sucked into the building from the back fan position of the heater, which can lead to carbon monoxide poisoning.



Incorrect Installation Direction



Correct Installation Direction

2. Precautions for the power supply:

※ The power supply for the diesel heater must meet the following requirements:

Voltage: 12-24V; Current: $\geq 12A$, either from a direct power source or a battery.

When powered by a battery, do not charge the battery while using the heater as insufficient current can cause malfunction. Ensure a firm and secure connection to the battery. Using clamps for fixation can result in poor contact.

※ When extending the power cable for the diesel heater, the wire diameter should be $>2 \text{ mm}^2$. Using a thin wire can lead to insufficient current, causing the heater not to work. After connecting, use insulating tape to protect the connection and

prevent electrical leakage, which might lead to fires.

※ Do not disconnect the power when the diesel heater is operating at high temperatures. This can cause backfire due to high temperatures. Repeatedly doing so can cause permanent damage. Solutions:

- If power is cut and you immediately turn on the heater: Wait until the internal heat of the heater has completely dissipated before turning it on for normal operation.

- If the heater is turned on a long time after a power cut: Incomplete combustion inside may produce a large amount of smoke. Wait for the smoke to clear, and the heater will automatically start and operate normally.

3. After the heater is installed, you need to manually pump oil before turning it on:

※ The fuel line of the heater is long. Before initially starting the heater, manually pump oil up to the fuel inlet. Otherwise, when turned on, the heater will take over 30 minutes to detect the fuel (during this time, it will continuously check for the fuel signal). Once the ignition plug detects the fuel, it will ignite and heat. Refer to the LCD switch user guide for detailed instructions on manual fuel pumping.

※ When manually pumping fuel, pump just up to the fuel inlet. Over-pumping can result in the heater emitting a large amount of white smoke. Quick solution: Detach the fuel line, turn on the heater and let it stop naturally, then restart it. Repeat this process until no smoke is emitted. Reconnect the fuel line and turn the heater on to resume normal operation.

※ After starting the diesel heater, continuously blow air into the air pipe using an air pump or a high-speed blower until the heater starts and functions normally. If white smoke appears after operating for a period: This indicates that the atomizing net is clogged. Remove the ignition plug, take out the atomizing net, clean its surface or replace it with a new one.

Cautions for Diesel Heater Power Supply:

※ Diesel heater power supply requirements: Voltage: 12-24V; Current: $\geq 12\text{A}$;

Use either a power source or a battery. (Avoid charging the battery while supplying power to the heater, as low current may lead to malfunctions. Ensure a secure battery connection without using clamps to prevent poor contact. Using the car's cigarette lighter as a power source is not recommended due to insufficient current.)

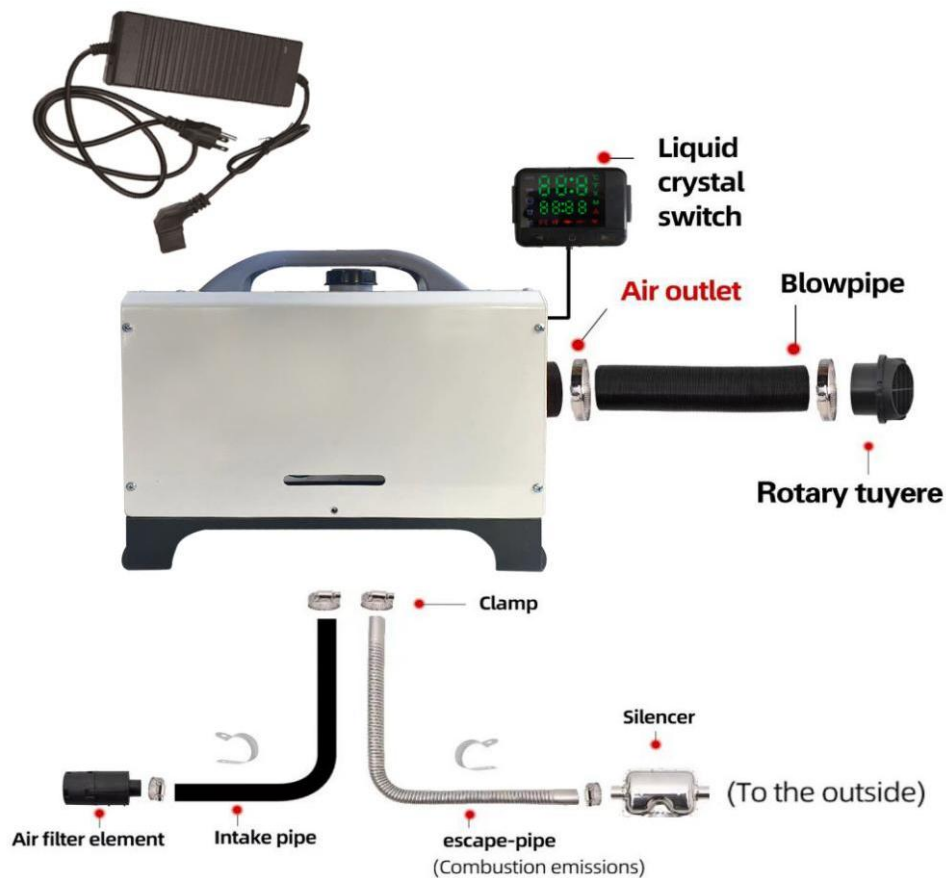


It is recommended to use high-grade diesel fuel when refueling the diesel heater. Other types of fuels, such as kerosene, vegetable oil, gasoline, waste oil, etc., cannot be used. Otherwise, the heater may have an unpleasant odor and malfunction during operation.

INSTALLATION DIAGRAM

XMZ-W-D4 (Horizontal type)

Parking heater installation details

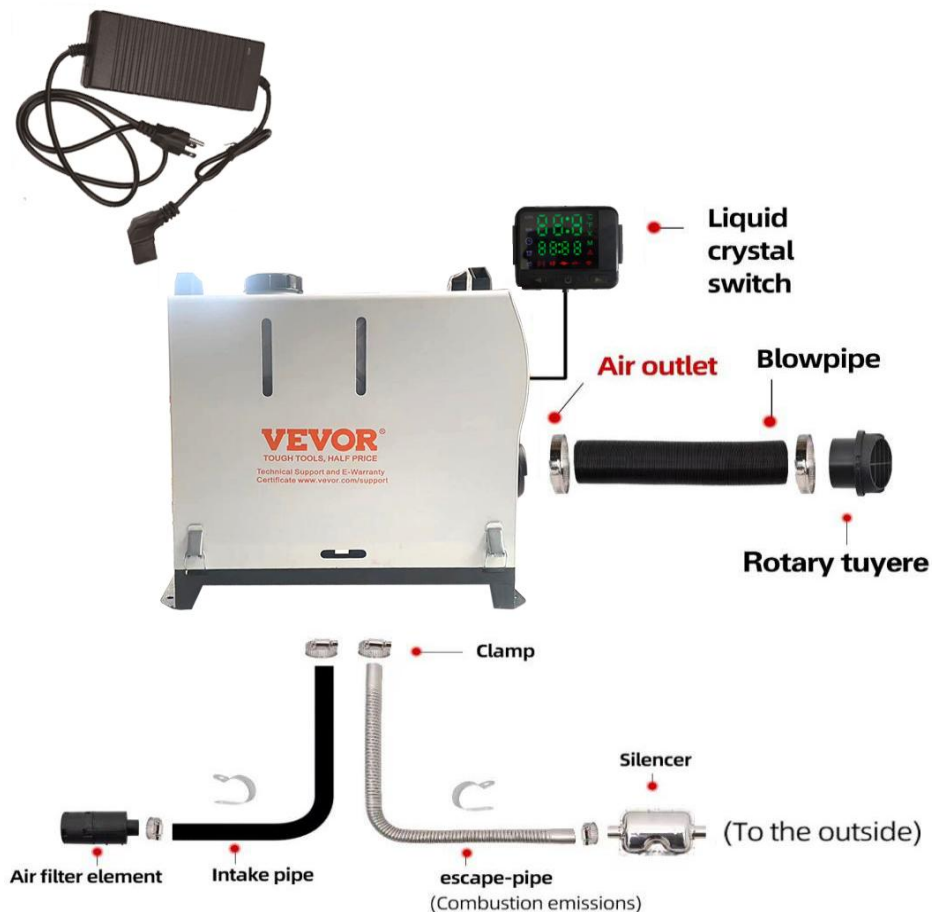


When the heater is just started, the current is relatively high, so an adapter with a voltage of 12-24V and a current of 12A or greater is required for the power supply.

XMZ-L-D4

(Vertical type)

Parking heater installation details

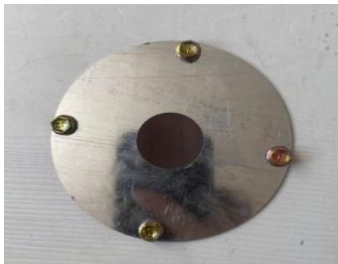


When the heater is just started, the current is relatively high, so an adapter with a voltage of 12-24V and a current of 12A or greater is required for the power supply.

Exhaust Pipe Fixture Installation



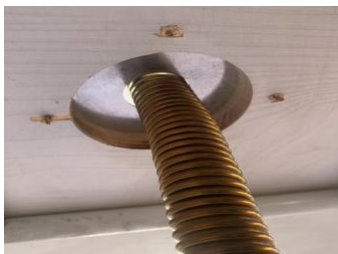
Step 1: Drill a 70mm hole



Step 2: Secure the parts together



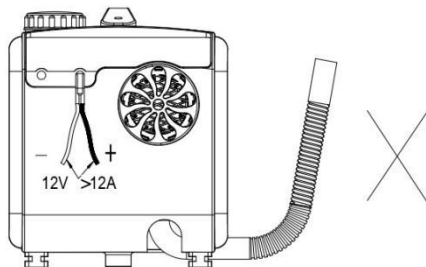
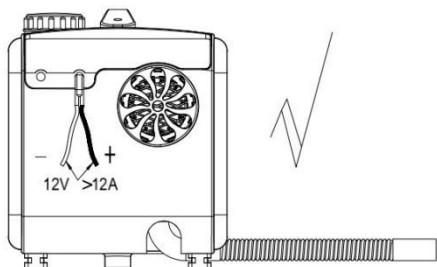
Step 3: Create a dovetail joint, and
secure the fixture



Step 4: Installation complete

Warning:

1. The air inlet shall not be blocked, and keep the inlet open and clear.
2. Keep the exhaust pipe clear. The exhaust pipe outlet shall be kept away from anything flammable to avoid heating and igniting the flammable goods and loading cargo on the ground.
3. To ensure optimal combustion, please remember that the smoke exhaust pipe cannot be placed upward but must be placed horizontally or downward.



REMOTE CONTROL OPERATION INSTRUCTIONS

After starting the machine for 3-5 minutes, it will work normally and heat up. Please wait patiently.

There are two types of switches: the standard one without Bluetooth function and the high-end one with Bluetooth function.



Standard one without Bluetooth function:

Run Mode declaration:

The heater has a manual set, an output power mode, and an automatic constant temperature mode. In the automatic mode, according to the temperature difference between the setting and the room, the heater automatically adjusts the output power. In the manual mode, the adjustable power range for Level 1 ~ 10, and in the automatic mode, the setting temperature is adjustable for 8 ~ 36 °C (46.4°F ~ 96.8°F).

Instruction:

- Turn ON/OFF the Heater: Press the ON/OFF key to turn ON or OFF the heater.
- Change the Run Mode: Press the ON/OFF key for more than 3 seconds to change the run mode for the heater. It will loop in manual mode and automatic mode.
- Adjust Temperature Units (°C and °F): In the automatic mode, press the UP key more than 3s to switch between °C and °F.
- Adjust Output Power Level or Setting Temperature: In manual mode, use the UP and DOWN keys to adjust the output power. In automatic mode, use the UP and DOWN keys to adjust the temperature setting.
- Remote Controller Authorization: When the controller is in "Off" status, press and hold the UP key for more than 2s until the display shows "rte," then release the UP key. Next, press any key on the remote controller. When the controller returns to the off status, it means authorization has been successful. If not, repeat the above operation.

- Time Setting: When the controller is in "On" status, press the DOWN key for more than 2s until the screen displays a digital "S01," and then click the UP or
- DOWN key to select a set project. It will loop in a project.



- Press the ON/OFF key more than 2s into edit mode and click the ON/OFF key again to exit edit mode. In the edit mode, the display blinks the set data, the running time set range 0.5 ~ 10 hours, and the set step 0.5 hours. While the Timer switch displays t-oF, the Timer is disabled; display t-oN the Timer is enabled.
- Select Language: While the controller is on, press and hold the ON/OFF key and the DOWN key for more than 3 seconds to change the language of the speaker. It will cycle between options such as "u-OF" (mute), "u-En" (English), "u-Ge" (German), and "u-Ru" (Russian).
- Executing Independent Fuel Pumping Program: When the controller is in the OFF status, first power it on and press and hold the DOWN key for more than 7 seconds until the display shows "300." Release the DOWN key, and the pump will start pumping fuel. The display will show the remaining time (in seconds) for this program. When the remaining time reaches "0," the pumping program is complete. Pressing the ON/OFF key will stop the program.

Warning:

When execute this programme attention don't pumping too much fuel into the heater.

Fault display:

When the heater fails, the display area flashes a fault code, and the fault type is shown in the table below:

code	Fault Message	Handling Method
------	---------------	-----------------

E-01	Abnormal voltage	1. Check that the heater supply voltage type matches the actual vehicle voltage. 2. Check that the supply voltage is not higher than 18V or lower than 9V. 3. Check that the main harness connector is not loosely connected.
E-03	Ignition plug abnormality	1. Check whether the ignition plug is connected falsely. 2. The ignition plug is faulty; replace the ignition plug. 3. Main board is faulty; replace the main board.
E-04	Oil pump abnormality	1. Check whether the oil pump plug is loose and connected falsely. 2. Check the main wiring harness for disconnection. 3. Oil pump is faulty; replace the oil pump.
E-05	High temperature protection	1. Incorrect or faulty furnace temperature sensor type; replace the sensor. 2. Main board is faulty; replace the main board.
E-06	Fan abnormality	1. Check whether the fan impeller of the car is jammed. 2. Check whether the fan plug is loose and falsely connected. 3. The fan is faulty; replace the fan. 4. Check whether the wind wheel induction magnet is missing or has the wrong polarity. 5. Check whether the main board wind speed sensor is normal. 6. The main board is faulty. Replace the main board.
E-08	Flame out due to lack of oil	Checking the fuel tank for lack of oil.

E-09	Overheat protection sensor	1. Detect whether the outlet air temperature sensor connector is loose and connected falsely. 2. The air outlet sensor is faulty, replace the main board. 3. The main board is faulty; replace the main board.
E-10	Secondary startup failed	1. Check whether the oil pump works. 2. Check whether the interfaces of the oil circuit are hanging wax and blocked.

Manufacturer: Shanghaimuxinmuyeyouxiangongsi

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