

XMZ-TB20 Operation Instructions

Working mode:



- ① In gear mode, the gear can be adjusted within the range of 1 to 10 gears;
- ② In temperature control mode, the set temperature can be adjusted within the range of 8~36 °C. The gear of the control switch changes with the temperature inside the cab. When the temperature rises or falls, the control switch will automatically adjust the operating gear to quickly reach the set temperature, making the heater run more intelligent and economical.
- ③ When a fault occurs during operation, the control switch will display a flashing window to display the fault code, making it easier to find the fault more accurately and intuitively.

Operating instructions:

●On/Off and Mode Switching: Press the [On/Off] button to turn on the device in the off state; Press the [On/Off] button to turn off the device when it is turned on; Press the [Settings] button to switch between the current gear/temperature control mode/constant temperature heating;

●Gear adjustment: Press the 【 increase 】 button to run gear/temperature+1, up to 10 gears/36 °C, press the 【 decrease 】 button to run gear/temperature -1, down to 1 gear/8 °C;

● Basic settings: After turning on the computer, press and hold the [Settings] button for 3 seconds to enter the basic settings interface. The settings item will be displayed in the upper left corner, and the interface will display the specific data under the settings item:

- F0: Current time
- F1: Self start time
- F2: Running time 【 After self start 】
- F3: Self start switch setting
- F4: Language switching [Chinese (C), English (E), Russian (R), voice off (--)]
- F5: Temperature compensation
- F6: Fuel tank volume [5-50L (switch unit 5L) (default 10L)] [Display - represents not monitoring fuel tank condition]
- F7: Fuel pump type [16/22/28/32UL (default 22UL)]

F8: Constant temperature heating (in temperaturecontrolmode, when thecab temperature reaches the set temperature, it will automatically shut down after a delay of 30 seconds; when thecab temperature is 2 °C lower than the set temperature, it will automatically start up after a delay of 30 seconds)

- F9: Temperature switching: (°F/°C)
- FA: Screen brightness;
- Fb: Full fuel tank
- FC: CO value detection (this function is used with CO sensor)
- Fd: Running time switch

❖Press the [Add]/[Subtract] keystomake changes, and then press the [Set] key again to confirm the current data modification;

❖Press the [Plus]/[Minus] keystoadjust the settings. After all adjustments are successful, press the [Settings] key to save the basic settings; Press the [On/Off] button to return to the operating interface;

●Engineering mode: Press the [Add]/[Subtract] keys simultaneously for 3 secondswhile turning on the device to enter engineering mode. The current project will be displayed in the upper right corner, and the interface will display specific data under the project. Press the [Add]/[Subtract] keys to adjust the project check

View data:

- En00: heater motherboard version number [scrolling display];
- En01: Fault code;
- En02: Shell temperature;
- En03: Power supply voltage;
- En04: Heater operating gear;
- En05: cab temperature;
- En06: Altitude;
- En08: Remote control matching;
- En09: Bluetooth matching;

●Quick remote control matching: In the power on state, long press the 【 add button 】; Enter the En08 interface, and the screen displays "P-1". At this time, press any key on the remote control to successfully match and return to the running interface;

❖Clear the last remote control matching data: During the power on self-test, press and hold the [On/Off] button. The interface displays "CLr" to start clearing. When the interface displays "SU C",theclearing is successful.

●Bluetooth matching: open the mobile phone applet, click the setting key, set the 4-digit password, and then adjust the switch to enter the engineering mode En09, and the interface displays "BL e", and the Bluetooth name is displayed on the upper right side of the screen,

Long press and hold the [Settings] button for 3 seconds, and the flashing original password in the upper right corner will change to the displayed setting password, and the interface display will change to "SUC". After successful matching, it will automatically return to the running interface;

When the password is consistent, click on the corresponding Bluetooth name to connect successfully;

●Pump oil mode: Press and hold the [Pump oil button] for 5 seconds when the power is turned off for the first time, until the screen flashes and the countdown starts 300 seconds. After the countdown ends, the pump oil will automatically exit or press the [On/Off] button to end the pump oil and shut down;

●Check CO, detection value: Press and hold the power on button while turning on the machine; (This function is used with CO sensors)

●Fault display: When the heater malfunctions, the display area flashes a fault code, and the fault type is shown in the table below;

Fault codes	fault type	Troubleshooting
E-01	Abnormal voltage	Check if the voltage type of the heater supply matches the actual vehicle voltage; Check if the power supply voltage of the 24V version is higher than 32V or lower than 18V; 12V version; Check if the power supply voltage is higher than 18V or lower than 9V; Check if there is any looseness or virtual connection at the main harness connector;
E-03	Abnormal ignition plug	Check if the ignition plug is connected improperly; Igniter plug malfunction, replace the ignition plug; Main board malfunction, replace the main board;
E-04	Abnormal oil pump	Check if the oil pump plug is loose or connected in a virtual manner; Check if there is an open circuit in the main harness; Oil pump malfunction, replace oil pump;
E-05	Overheat protection	The furnace temperature sensor model is incorrect or faulty, replace the sensor; Main board malfunction, replace the main board;
E-06	Fan abnormality	Check if the fan impeller is stuck; Check if the fan plug is loose or connected improperly; Fan malfunction, replace the fan; Check if the induction magnet of the wind turbine is missing or has incorrect polarity; Check if the motherboard wind speed sensor is functioning properly; Main board malfunction, replace the main board;
E-08	Lack of fuel and stalling	Check if the fuel tank is short of oil;
E-09	Overheat protection sensor	Check if the temperature sensor connector is loose or poorly connected; Sensor malfunction, replace the motherboard; Main board malfunction, replace the main board;
E-10	Secondary startup failure	Check if the oil pump is working; Check whether the interfaces of the oil circuit are waxed or blocked;
E-11	CO alarm (concentration exceeding limit)	Check if the CO controller is installed correctly (avoiding direct exhaust gas blowing controllers), and check if the heater is installed correctly; Replace the CO controller;



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Android APP

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

NOTE: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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