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Confirm button/knob

Setting button **Power button**

Instructions on displays of the panel in the standby mode:	After the power-on initialization is completed, check the panel (Turn the knob, with one time for one of the followings) which displays the followings circularly; Display of clock → display of shell temperature → display of power supply voltage → display of gear/temperature setting → display of altitude → display of the failure code in case of a failure	
Instructions on button operation	Standby mode	Power button: short press to power on, and the panel displays ON.
		Knob: Adjust the temperature/gear.
		Setting button: long press for 3 seconds to set parameter.
		Confirm button: short press cyclically to switch the displays.
	Power on mode	Power button: long press 3 seconds to power off, and the panel displays OFF.
		Knob: Adjust the temperature/gear.
		Confirm button: short press cyclically to switch the displays.
Instructions on remote control code matching	Standby mode	Long press the setting button + Counterclockwise knob to enter the remote-control code matching interface, and "-PE-" will be displayed. Long press the ON/OFF button of the remote control for code matching, and exit after the code matching is successful or by short pressing the power button. If the button is inactive for 20 seconds, automatically exit; The remote control icon is always on after the code matching is successful;
Instructions on manual oil pumping	Standby mode	Long press the power button + clockwise knob to enter the manual oil pumping interface, and "020P" will be displayed. Turn the knob to adjust the oil pumping time (the maximum manual oil pumping time is 120 seconds). Short press the

		power button to start/stop oil pumping. Short press the power button to exit or automatically exit after the button is inactive for 20 seconds;
Instructions on manual gear control mode/ auto constant temperature mode	Standby mode/power on mode	1. Long press the setting button + clockwise knob to switch the constant temperature mode, and the interface displays "27°C" and flashes; Long press again to switch the manual mode, and the interface will display "P01" (the manual mode by default); 2. In the power on mode, long press ON button of the remote control for 3 seconds to cyclically switch the manual mode and constant temperature mode. Each switch must be at least 3 seconds before it can be switched again; 3. In the standby mode, long press OFF button of the remote control for 3 seconds to cyclically switch the manual mode and constant temperature mode. Each switch must be at least 3 seconds before it can be switched again;
Instructions on temperature display switching	Power on mode	Degrees Celsius is displayed by default, such as "27℃". In the power-on mode, long press the confirm button for 3 seconds to switch the display of Degrees Fahrenheit, and the interface displays "27 ℉"; At this time, any content related to temperature display will be switched to Fahrenheit display;
Instructions on parameter setting (Standby mode)	Level 1 Menu selection	Long press the setting button for 3 seconds to enter the menu, and display "SET8". Turn the knob to switch options, short press the confirm button to enter the options, short press the power button to save and exit, or automatically exit after the button is inactive for 20 seconds; SET1--SET9 can be selected;
	SET8 Time setting	After selecting "SET8", short press the confirm button to enter, and the upper row will display "-1-". Turn the knob to switch Monday-Sunday. Short press the confirm button to switch to the lower row display as "00:00". Turn the knob to switch the time. Short press the confirm button to switch to the minute display. After the minute is adjusted, short press the confirm button to jump to the next item (SET9) in the first-level menu or short press the power button for 3 seconds to save and exit, or automatically exit after the button is inactive for 20 seconds without saving;
	SET1-7 Timing setting	Select SET1-7 corresponding to Monday-Sunday in the first-level menu, short press the confirm button to enter, and "CLS" will be displayed in the upper row. Turn the knob to switch CLS, ON and LON, and short press the confirm button to confirm; CLS(Back) Shortpresstheconfirmbuttontoselecttoreturntothepreviousmenu. ON Shortpresstheconfirmbuttontoentertheinterfaceofsettingsingletimingstartup.Initially,"00:00" (Singletiming isdisplayedandthefirstblankflashes.Turntheknobtochangethenumber,andthenshortpressthe startup) confirmbuttontoenterthenextblank.ThenshortpresstheconfirmbuttontoentertheOFFsetting.

		OFF (Single timing shutdown)	Short press the confirm button to enter the interface of setting single timing shutdown after setting ON. Initially, "00:00" is displayed and the first blank flashes. Turn the knob to change the number, and then short press the confirm button to enter the next blank. Then short press the confirm button to return to the next item in the first-level menu after setting.
		LON (Cycle timing startup)	Short press the confirm button to enter the interface of setting cycle timing startup. Initially, "00:00" is displayed and the first blank flashes. Turn the knob to change the number, and then short press the confirm button to enter the next blank. Then short press the confirm button to enter the LOF setting.
		LOF (Cycle timing shutdown)	Short press the confirm button to enter the interface of setting cycle timing shutdown after setting LON. Initially, "00:00" is displayed and the first blank flashes. Turn the knob to change the number, and then short press the confirm button to enter the next blank. Then short press the confirm button to return to the next item in the first-level menu after setting.
	SET9 Configuration setting	Password input	Initially, it displays "————" and the first blank flashes. Turn the knob to change the number, and then short press the confirm button to confirm it to enter the next blank. The subsequent numbers are set in sequence, and finally short press the confirm button to enter the next setting when the password is correct. Password: 1234
		Parts selection	Display "12V" by default, turn the knob to switch, and you can choose 12V, 24V and AU (automatic matching). Short press the confirm button to enter the next item;
		Power selection	Display "H-5" by default, turn the knob to switch, and you can choose H-8 (8KW), H-5 (5KW) and L-2 (2KW). Short press the confirm button to enter the next item;
		Selection of oil pump type	Display "22ML" by default, turn the knob to switch, and you can choose 16ML, 22ML and 28ML. Short press the confirm button to enter the next item;
		Language selection	Display "L-C" by default, turn the knob to switch, and you can choose L-C (Chinese), L-F (foreign language) and L-0 (mute). Press the confirm button to enter the next item;
		Start-stop mode selection	Display "OFF" by default, turn the knob to switch, and you can choose OFF or ON. Short press the confirm button to enter the next item; When the start-stop mode is ON, enter this page, and the default value is 25℃. Turn the knob to change the number, and short press the confirm button to return to the first item;
	Note: After all parameter settings are finished, please press the power button to confirm and save the settings before exiting. No settings will be saved in case of automatic exit after timeout.		
Instructions on voice broadcast	It will report only when the interface is switched or the status is changed; report is not performed during adjustment; report is performed when the interface stays for more than 1.5s during adjustment; Note: (Voice button is Off: Long press the Confirm button + Counterclockwise knob);		

Instructions on screen off	Standby mode	The screen will completely turn off after no press for more than 3 minutes.	
	Power on mode	The screen will turn off after no press for more than 3 minutes If the screen is off, there will be a breathing light prompt and it will display. Press any button to wake up the screen.	
Instructions on failures and how to deal with them	Under voltage	E-01	The voltage is too low: for 24V, lower than 18V, and for 12V, lower than 10V.
	Over voltage	E-02	The voltage is too high: for 24V, higher than 32V, and for 12V, higher than 17V.
	Spark plug failure	E-03/F1	Short circuit of spark plug
		E-03/F2	Open circuit of spark plug
	Oil pump failure	E-04/F1	Short circuit of oil pump
		E-04/F2	Open circuit of oil pump
	Overheating	E-05	The shell temperature exceeds 260℃. Check whether the air inlet and outlet are blocked.
	Motor failure	E-06/F1	Short circuit of fan
		E-06/F2	Open circuit of fan
		E-06/F3	Fan speed not recognized by Hall sensor
	Disconnection	E-07	Check whether the communication cable or plug between the power button and the controller is open or virtually connected.
	Flame failure	E-08	Check whether there is air or wax blockage in the oil circuit, resulting in poor oil supply.
	Sensor failure	E-09/F1	Short circuit of case temperature sensor
		E-09/F2	Open circuit of case temperature sensor
	Ignition failure	E-10	In case of two times of ignition failure, check the reasons such as blocked oil circuit, not smooth oil intake, stuck oil pump or blocked volatile net due to oil problems.
	Failures in ambient temperature sensors	E-11	Ambient temperature sensors are open or short-circuited.
	Controller overheating	E-12	The temperature of the controller exceeds 100℃. Check whether the air inlet and outlet are blocked, or whether the ECU is damaged.