TURBRO

Diesel Heater User Manual

ARCADE

Model: H9BP



IMPORTANT SAFEGUARDS: READ ALL INSTRUCTIONS BEFORE USE.

Improper handling and/or installation of the heater may result in fire hazards and property damage due to the presence of fuel and electrical components. Strict adherence to all safety and installation instructions is mandatory.

RETAIN THIS MANUAL FOR FUTURE REFERENCE

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SAFETY INSTRUCTIONS

Please read all instructions before attempting to assemble, operate, or install the product.

To reduce the risk of fire, electric shock, or injury to persons, observe the following:

- Use this unit only in the manner intended by the manufacturer.
- Keep children and pets away from the heater, fuel, fuel lines, exhaust pipe, and other hot surfaces during and after operation.
- Do not use or install the heater in places where flammable vapors or gases or large amounts of dust may form and accumulate.
- Disable the heater when the fuel tank is being fueled.
- Do not cover the heater with clothing, pieces of fabric, and so on, and do not place such objects in front of the air intake pipe or inlet and outlet of the heated air.
- The installation arrangement must exclude the possibility of contact of the exhaust pipe with the air intake, fuel pipe, or other flammable objects.
- The vehicle or place where the heater is installed must be equipped with a fire extinguisher.
- Do not install electric wiring (harnesses) of the heater near the fuel pipe and the exhaust pipe.
- Disconnect the heater from its electric power during repair work on the heater.
- To prevent electrical damage, never power the heater from the vessel's circuit while the engine is running without a battery connected.
- Do not disconnect power while the heater is in operation.
- When electric welding is carried out on the vehicle or repair work is made on the heater, the heater must be disconnected from the battery.
- Take the safety precautions, which must be observed when working with electrical and fuel systems, when installing and dismantling the heater.
- Do not disconnect the heater from power before the purge cycle ends.

- When the heater has been switched off, do not switch it on again for 5-10 seconds.
- Due to poisonous exhaust gases and risk of suffocation, DO NOT use the heater in closed and/or unventilated places (e.g., garage, workshop, etc.)
- Do not step on the heater or put any objects on it or in it.

If the consumer fails to follow the requirements above, the warranty of the heater becomes null and void.

SAVE THESE INSTRUCTIONS

PACKAGE CONTENTS



Diesel Heater Unit
With Control Panel



Remote Control



Air Pipe Set × 2



DC 12/24V Power Cable



AC/DC Power Adapter



Funnel



Exhaust Pipe



Silencer



Storage Bag



Heat Protection Sleeve



Silencer Fixing
Accessories

SPECIFICATIONS

Model: H9BP

Power Supply: 12V / 24V DC, 110V AC / 60Hz

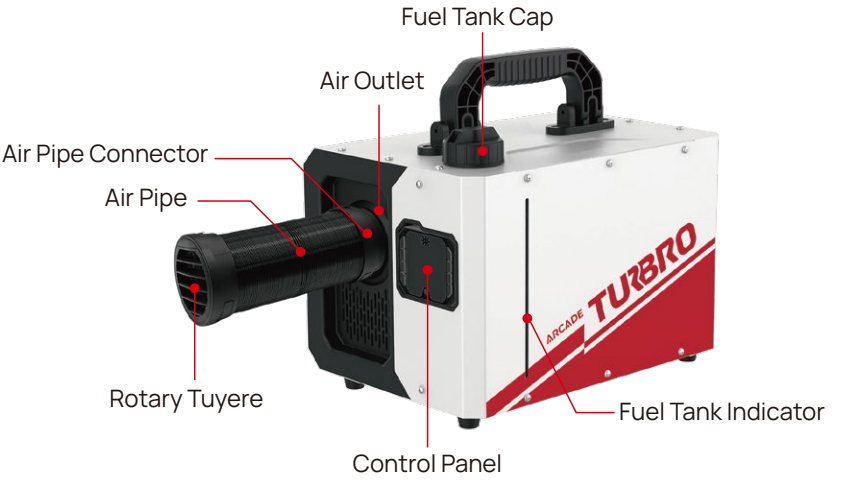
Rated Current: 4A

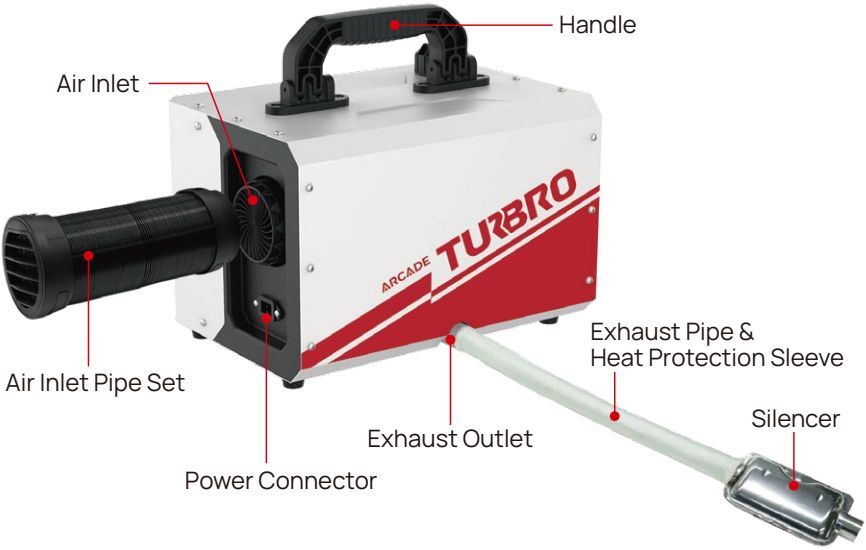
Product Dimensions: 15.8 × 10.6 × 13.9in / 40.0 × 26.8 × 35.2cm

INSTALLATION & PRODUCT FEATURES

WARNING: To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the heater.

Product Features





Tips: The air inlet pipe set is designed for air intake, installation is optional depending on requirements.

Power Connection

If using a 12V / 24V DC power supply, connect the positive (white) and negative (black) wires to the battery terminals. Also, ensure the power supply or battery meets the following two requirements:

12V Power Supply or Battery: Output current ≥ 15A

24V Power Supply or Battery: Output current ≥ 10A

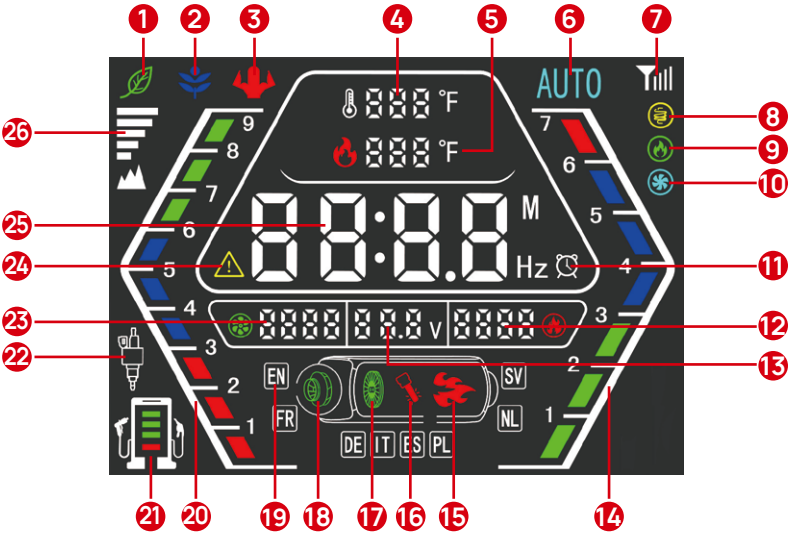
WARNING: For optimal combustion, do not over-bend or route the exhaust pipe upward. Install horizontally or sloped downward.

WARNING: Extend the exhaust terminal fully outdoors. Pay attention to wind direction to avoid exhaust re-entering the air intake and causing carbon monoxide poisoning.

WARNING: The exhaust gas can reach temperatures as high as 750°F/400°C. Always keep children, pets, and flammable materials away from the exhaust pipe and outlet. Never place cargo or other objects near the exhaust path.

OPERATING

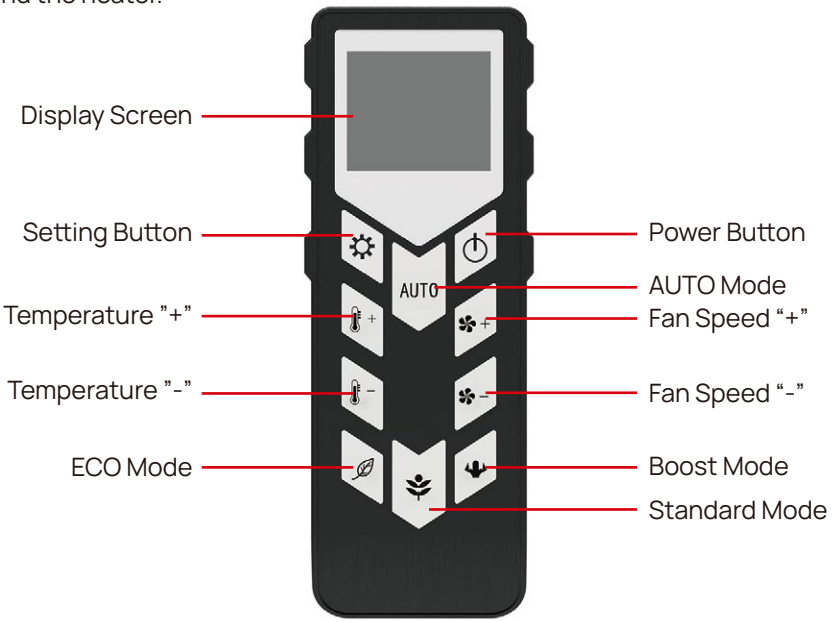




1. ECO Mode
2. Standard Mode
3. Boost Mode
4. Ambient Temp
5. Chamber Shell Temp
6. AUTO Mode
7. Signal Icon
8. Preheating Icon
9. Running Icon
10. Cooling Down Icon
11. Timer Icon
12. Combustion Fan Speed
13. Operating Voltage
14. Gear Level
15. Combustion
16. Igniter
17. Combustion Fan
18. Blower Fan
19. Voice Language
20. Fan Speed Level
21. Fuel Volume
22. Pump Icon
23. Blower Speed
24. Warning Icon
25. Operating Parameter Display
26. Altitude

Remote Control

The remote control can be used up to 82 feet (25 meters) away from the heater, so long as there are no obstructions between the remote control and the heater.



Remote Control Batteries

Insert two new AAA 1.5V batteries into the battery compartment on the back of the remote control.Ensure that the polarity is correct. Batteries are **not included** in the package due to safety during transportation.

⚠ Do not cut off the power supply while the heater is in operation, as this may cause irreparable damage to the heater. Please cut off the power supply only after the heater has been shut down normally, and the purge cycle is completed.

⚠ The heater should be used on a horizontal and stable surface. If it is used in a moving vehicle or ship, it must be fixed in a space to prevent it from moving or tipping over due to bumps.

Fuel Pumping Mode:

Used to pre-fill the fuel line after initial use or running out of fuel, enabling faster startup. Press the Setting button 5 consecutive times to start the fuel priming mode. The display will show a 200-second countdown. During priming, the unit continuously monitors the fuel signal. Once the glow plug detects fuel, it will automatically ignite. You can also press any button to stop the process at any time.

WARNING: If a fuel leak is detected during the fuel priming mode, stop operation immediately.

NOTE: Do not use this mode if the fuel line already contains fuel.

Power ON/OFF:

• Press and hold the Power button for 2s to power on the heater.

• Press and hold the Power button for 2s to turn off the heater. **NOTE**: The heater will not stop operating immediately. The display will show a flashing "OFF" and Cooling Down icon, indicating that the unit has entered cool-down cycle. The blower fan will continue to run for 3–10 minutes to dissipate residual heat.

CAUTION: Do not disconnect the power during this cooling process.

CAUTION: Do not press the Power button again during this cooling process.

Working Mode Switching:

When powered on, press the Mode button to cycle through Boost Mode, Standard Mode, ECO Mode and AUTO Mode.

Working Mode - Boost Mode:

In this mode, the heater operates at maximum heat output to rapidly heat up the space. The fan speed level is selectable from 7L to 9L. For long-term efficiency, we recommend switching to another working mode once the desired temperature is reached.

Working Mode - Standard Mode:

In this mode, the heater operates with medium heat output. The fan speed level is selectable from 4L to 9L.

Working Mode - ECO Mode:

In this mode, the heater operates with low fuel consumption and low heat output. The fan speed level is selectable from 1L to 9L.

Working Mode - AUTO Mode:

Designed to automatically heat the space to the set temperature (10-45°C/50-113°F).

In this mode, the heater intelligently adjusts its heat output and fan speed to reach the desired temperature more efficiently and economically.

IMPORTANT: In Fahrenheit mode, temperature increments may alternate between 1°F and 2°F. This is **normal**, as the total range of 50–113°F is not an even multiple of 2°F.

NOTE: In ECO, Standard, or Boost Mode, do not press the temperature adjustment (+/-) buttons. These buttons are only functional in AUTO Mode; pressing them will automatically switch the heater to AUTO Mode.

In AUTO Mode, do not press the fan speed button; doing so will switch the heater directly to Boost Mode.

Auto Start/Stop Function:

Disabled by default, this feature can only be configured in the App (Me > Auxiliary > Start/Stop). When enabled, the heater automatically stops heating once the set temperature is reached, and restarts when the temperature drops below a specific threshold.

°F / °C Switch:

Press and hold the Mode button for 3s to switch between Celsius and Fahrenheit.

Timer:

NOTE: The timer function is only available via the App and must be set up in the App.

Operating Parameter Display:

- Shows fan speed level (1L - 9L) in ECO, Standard and Boost modes.
- Shows set temperature in Auto mode.
- Press the Setting button to display pump power, igniter power, altitude, total operating time in sequence.

Voice Prompt Language:

When powered on, press and hold the Settings button for 3s to enter language selection mode. Then, press the Settings button to cycle through and select: EN(English) - FR(French) - DE(German)- IT(Italian) - ES(Spanish) - PL(Polish) - NL(Dutch) - SV(Swedish).

BLUETOOTH CONTROL

NOTE: The effective control distance of Bluetooth is 82 feet (25 meters).

NOTE: Enable Bluetooth on your device before connecting.

A. iOS system: Scan the QR code below or search '**chihuitong**' on the App Store and download it.

Android system: Scan the QR code below and download it.

chihuitong APP

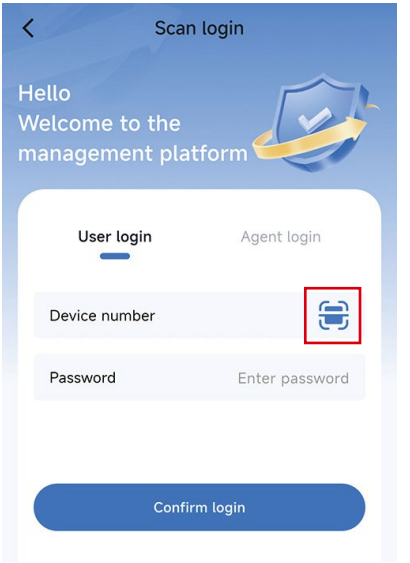
Download on the App Store

GET IT ON Google Play

B. Open the APP and tap the Scan button at the bottom.



C. Tap the scan QR code icon on the interface.



D. Scan the "Bluetooth Pairing QR Code" below the control panel to pair.

NOTE: If it cannot be scanned for any reason, remove the control panel and scan the QR code on its back.

E. The app will enter the operation interface once the QR code connection is successful.

NOTE: If the App shows as offline, exit the control interface to return to the Home screen, then re-enter the control interface.

FCC STATEMENT

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.

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.

MAINTENANCE

⚠ **WARNING:** Poorly ventilated exhaust can **KILL**. Carefully follow ALL aspects of ventilation maintenance.

- Turn off the heater, disconnect it from the power supply, and allow it to cool completely before performing any maintenance.
- Periodically inspect the electrical connections for loose connections and tighten if needed.
- Regularly check the fuel levels in the heater's fuel tank to make sure there's enough diesel to keep the heater running. If the fuel level is low, top off the tank with diesel while being careful to avoid overfilling.
- Check the fuel lines and connections for any signs of leaks, such as fuel spots on the floor or a strong diesel odor. If there are leaks, tighten the connections to prevent further leaks. If you are unsure how to tighten the connections, consult the seller.
- Check the exhaust pipe regularly for blockages, clearing and cleaning the line if needed.
- If the heater has not been used for a long period of time, it Is important to perform a test run before using it again. This will ensure that the heater is functioning properly and that there are no leaks or other issues that could cause harm. To perform a test run, turn on the heater and run it for a few minutes, observing the fuel and air levels, the temperature, and the exhaust pipe. If everything appears to be working properly, the heater is ready for use. If you notice any issues, such as dirty or broken components, clean or replace them as needed. For serious issues, seek assistance from the seller or licensed diesel heating technician.

TROUBLESHOOTING

When a fault occurs during operation, the control panel display will flash to display the error code.

Code	Possible Cause	Recommended Solution
E 01	Supply voltage too high	1. If you use the DC 12/24V Power Cable to connect the heater, check if the power supply voltage is higher than 32V. 2. Check if the main wiring harness connector is loose.
E 02	Supply voltage too low	1. If you use the DC 12/24V Power Cable to connect the heater, check if the power supply voltage is lower than 9V. 2. Check if the main wiring harness connector is loose.
E 03	Fuel pump open circuit	1. Check if there is any wire breakage in the fuel pump harness. 2. Check if the fuel pump plug is loose; unplug and reinstall to confirm. 3. If none of the above issues exist, replace the fuel pump.
E 04	Fuel pump short circuit	1. Check if the fuel pump wiring is short-circuited due to squeezing and broken insulation. If not, replace the fuel pump. 2. If the problem is not solved after replacing the fuel pump, replace the mainboard.
E 05	Glow plug open circuit	1. Check if the glow plug connector is properly connected and not loose. 2. If properly connected, remove the glow plug to check if it is damaged. 3. If the glow plug is damaged, replace it. 4. If the glow plug is normal, replace the mainboard.
E 06	Glow plug short circuit	1. Check if the glow plug wiring has damaged insulation causing a short circuit. 2. Check if the protective sleeve between the center electrode at the base of the glow plug and the side electrode is damaged, causing a short circuit. 3. If there is no short circuit, check if the glow plug is damaged. 4. If the glow plug is normal, replace the mainboard.

Code	Possible Cause	Recommended Solution
E 07	Abnormal speed of the blower motor	1. Check if the entire machine is firmly fixed and properly installed. 2. Check the blower fan impeller for any obstructions or interference. 3. If there is no interference, replace the motor assembly.
E 08	Blower fan motor short circuit	1. Check if the blower fan wiring has damaged insulation causing a short circuit due to squeezing. 2. If no abnormalities are found, replace the mainboard.
E 09	Heater flameout	1. Check if there is air bubbles in the fuel line or if the fuel line is kinked or crushed. 2. Check if the fuel line is damaged, causing fuel leakage. 3. Check if the fuel tank is empty.
E 10	Ignition failure	1. Check the fuel tank and fuel lines for fuel. 2. If the heater does not ignite, use compressed air to repeatedly blow and clean the air intake and exhaust ports, clean the combustion chamber, and then restart.
E 11	Overheat protection	The surface temperature of the aluminum casing reaches or exceeds 563°F/295°C and activates the overheat protection mechanism. Check carefully whether the intake pipe, outlet pipe, and exhaust pipe are bent or too long, as these abnormalities will affect the exhaust effect and hinder heat dissipation.
E 12	Temperature sensor open circuit	1. Check the temperature sensor wiring for loose connections or broken wires. 2. If there are no such issues, replace the temperature sensor; 3. If the problem persists, replace the mainboard.
E 13	Temperature sensor short circuit	1. Check the temperature sensor wiring for damaged insulation or short circuits. 2. If no such issues are found, replace the temperature sensor; 3. If the problem persists, replace the mainboard.

Code	Possible Cause	Recommended Solution
E 14	Communication failure	1. Check if the control panel communication line (blue wire) is damaged. 2. Check if the control panel plug terminals have fallen off. 3. If normal, replace the control panel. 4. If the fault is not cleared after replacement, replace the mainboard.
E 15	Air intake temperature too high	Check the ambient temperature where the control panel is located. If the ambient temperature is below 149°F/65°C and the error code is constantly displayed, replace the control panel.
E 16	Abnormal speed of the combustion fan motor	1. Check the combustion air fan impeller for any obstructions or interference. 2. If the impeller has no interference, replace the motor assembly.
E 17	Short circuit in the combustion fan motor	1. Inspect the combustion fan motor wiring for damage. 2. If no abnormalities are found, replace the mainboard.
E 18	Open circuit in the combustion fan motor	1. Check the wiring of the combustion fan motor for any looseness or damage. 2. If no issues are found, replace the motor assembly.
E 19	Blower motor open circuit	1. Check the blower motor wiring for loose connections or breaks. 2. If none are found, replace the motor assembly. 3. If the problem persists after replacing the motor assembly, replace the mainboard.
E 20	Combustion fan motor circuit fault	Replace the mainboard.
E 21	Blower motor circuit fault	Replace the mainboard.

WARRANTY INFORMATION

This 1-year limited warranty is extended to the original purchaser of this product and warrants against any defect in materials and workmanship under normal use and conditions, for a period of one year from the date of the original purchase, subject to the conditions and limitations outlined below.

This warranty is non-transferable to any subsequent owner of the product regardless of whether the product is transferred during the specified term of the warranty.

THIS LIMITED WARRANTY IS GIVEN TO THE PURCHASER IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE.

What is covered?

- TURBRO's warranty extends only to products purchased from authorized sellers that are subject to TURBRO's quality controls and have agreed to follow its quality controls.
- This warranty is limited to the repair or replacement of part(s) proved to be defective in material or workmanship after said defect is confirmed by the manufacturer's inspection.
- The manufacturer may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s).

UPON THE EXPIRATION OF THIS WARRANTY, ALL SUCH LIABILITY WILL TERMINATE. NO OTHER WARRANTIES ARE EXPRESSED OR IMPLIED ANYMORE.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

What is not covered?

- Damage or losses caused by any alterations or unauthorized repair made to the product by the owner.
- Damage or losses caused by accident, neglectful operation, misuse, abuse, or use contrary to the user manual and safety guidelines.
- Damage or losses occurring during commercial use, rental use, or any use for which the product is not intended.
- Damage or losses caused by improper or inadequate maintenance.
- Failure to perform general maintenance (including cleaning).
- Use of non-standard parts or accessories.
- Natural depreciation and normal wear and tear.

TURBRO SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW.

Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

How to request warranty services?

To obtain the benefit of this warranty please leave a message online (www.turbro.com/contact), or send an email to support@turbro.com.

To express our gratitude to you for choosing us, we are giving you a 1-year warranty extension to the original 1-year manufacturer's limited warranty, extending the coverage period to two years in total.

- Complete the registration of your new product at https://www.turbro.com/warranty within 90 days from the date of package delivery (inclusive of the 90th day).
- Any registration beyond this stipulated period will be deemed invalid.
- The ultimate interpretation of the terms and conditions related to the extended warranty service rests solely with TURBRO.

If you discover that your product is defective within the specified warranty period, please contact our Customer Support via support@turbro.com.

- Order ID and invoice, or bill of sale should be provided. Such payment record must be kept to verify the purchase date and establish a warranty period.
- Model and issue description should be provided in detail, preferably with pictures and videos.
- DO NOT dispose of your product before contacting us.
- DO NOT return the product unless instructed by our customer service.
- The original carton should be kept in case of warranty return of the unit.

What will TURBRO do?

- Replace certain parts.
- Replace the item.
- Refund the item under certain circumstances.

In no event shall liability exceed the purchase price paid by the original purchaser of the product.

Any instructions or warranty included in this manual may be subject to change without notice. For the most up-to-date instructions and warranty information, please contact us via support@turbro.com.

TURBRO

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