# USER MANUAL

# TURBRO



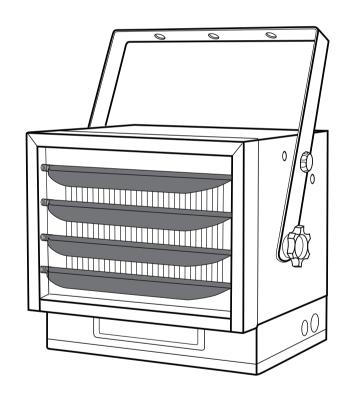


MODEL: GH7500

#### HARDWIRED INSTALLATION REQUIRED

THIS HEATER MUST BE GROUNDED AND HARDWIRED TO A PROPERLY SIZED CURRENT PROTECTION CIRCUIT BREAKER IN ACCORDANCE WITH THE (US) NATIONAL ELECTRIC CODE AND LOCAL CODES.

KEEP THIS USER MANUAL FOR FUTURE REFERENCE.



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### **WARRANTY REGISTRATION**

Thank you for purchasing a TURBRO Electric Heater! We're extremely happy that you have decided to join us.

To express our appreciation, we are giving you a warranty extension. All you need to do is to register your new product at <a href="https://www.turbro.com/warranty">https://www.turbro.com/warranty</a>. After registration, you'll get a 1-year extension on the 1-year manufacturer warranty for a total of 2 years. It's that easy!

#### **Tip for First-Time Use**

When using this heater for the first time, or after a long period of storage. The product may produce a 'new product' smell. Please turn on the heater and run it for at least 15 minutes at the maximum heat level to remove the smell. The smell will dissipate after a few minutes of use.

#### PET OWNERS WARNING

During the initial use of this heater, or after prolonged storage, it may produce fumes resulting from moisture and dust. These fumes are not harmful and will dissipate within a few minutes. However, to prevent any distress to birds and small pets who are sensitive to fumes, we advise against using the heater around them during this period.

# SAFETY INSTRUCTIONS

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

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces.
- Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, etc. and curtains at least 3 feet (0.9 m) from the front of the heater and keep them away from the sides and rear.
- Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- Always turn off the power of heater when not in use.
- Do not operate any heater after it malfunctions. Disconnect power at the service panel and have the heater inspected by a reputable electrician before reusing.
- Do not use outdoors.
- This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate the heater where it may fall into a bathtub or other water container.
- This heater is not suitable for use in corrosive atmospheres such as marine greenhouses or chemical storage areas.
- To disconnect the heater, turn off the controls and power to the heater circuit at the main disconnect panel.
- Heater air flow must be directed parallel to or away from the adjacent wall.
- Observe wall, floor and ceiling clearance requirements.

- Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater.
- To prevent a possible fire, do not block air intakes or exhaust in any manner. Do not use it on soft surfaces, like a bed, where openings may become blocked.
- Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
- If you use the mounting bracket, make sure that both the mounting structure and anchoring hardware can reliably support the weight of the heater.
- This heater may display 'ER' on screen which means the parts of the heater are getting excessively hot. Please turn off the heater immediately and check for any objects on or near the heater that might be obstructing the airflow or causing high temperatures.

#### DO NOT OPERATE THE HEATER WHEN DISPLAYING 'ER' ON SCREEN.



#### WARNING

Any attempt to disassemble or modify the product may cause damage.

#### **KEEP THESE INSTRUCTIONS**

#### **ELECTRICAL SAFETY INFORMATION**

#### WARNING

This heater requires hardwire installation (no plug). The installation of this product must be carried out by a Certified Electrician and in accordance with all local and national electrical codes.

- Use only copper wires rated for at least 167°F(75°C).
- Connect to properly grounded outlets only.
- All wiring must be done according to national and local electrical codes in the United States and the heater must be grounded as a precaution against possible electric shock. Heater circuit must be protected with proper fuses.
- All electrical power must be disconnected and the main service box must be locked before inspecting, cleaning or servicing the heater. This is a precaution to prevent serious electric shock.

#### WARNING

Improper installation or failure to follow the procedures outlined in this instruction manual can result in serious electrical shock.

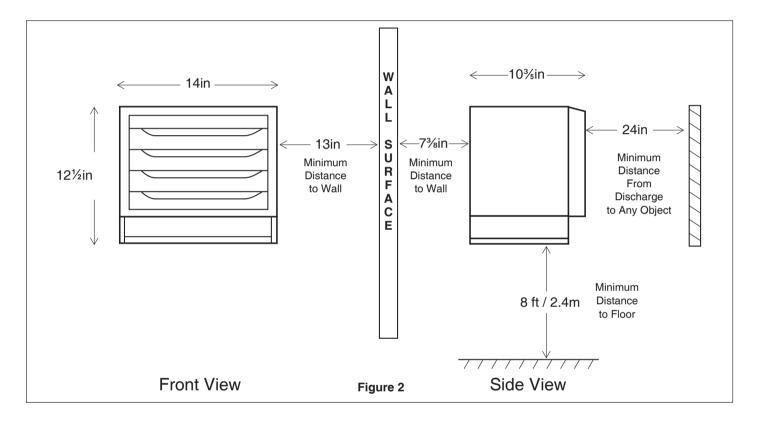
#### **SPECIFICATIONS**

Power Supply	240V / 60Hz
Rated Current	31.3A
Rated Power	7500W / 25589BTU
Adjustable Thermostat	50°F - 95°F / 10°C - 35°C
Noise Level	≤ 55 dBA
Net Weight	23.8lbs / 10.8kg
Dimensions	14 × 10.6 × 12.6in 35.5 × 27 × 32cm
Remote Control	Yes

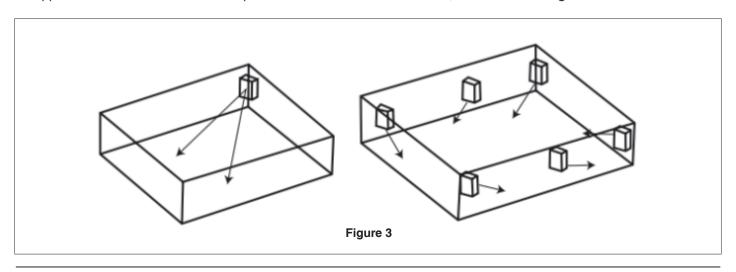
# **LOCATING THE HEATER**

#### WARNING

- FOR INDOOR USE ONLY, PLACE THE HEATER IN A DRY LOCATION FREE OF GASOLINE, PAINT, FLAMMABLE LIQUIDS OR COMBUSTIBLE DUST OR MATERIALS.
- DO NOT USE EXTENSION CORDS
- Install heater out of traffic areas, maintaining the clearances stated in **Figure 2**. Ensure that the airflow is not restricted or obstructed by any items, and it should gently sweep exposed walls instead of blowing directly onto them.



• When more than one heater is used in an area, the heaters should be arranged so that the air discharge of each heater supports the air flow of the others to provide best circulation of warm air, as indicated in **Figure 3**.



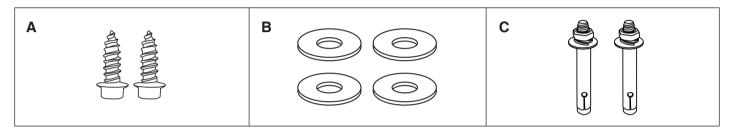
# **INSTALLATION**

#### MOUNTING THE BRACKET

#### **Tools Required (not included)**

- Electric screwdriver
- Tape measure
- Electric power drill

#### **Hardware Required (included)**



Part	Description	Quantity
Α	3/8" Diameter Lag Bolt	2
В	Washer	4
С	M10 Expansion Bolt	2

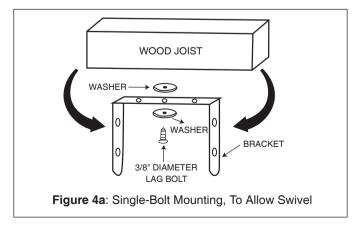
Locate a ceiling joist or other firm structural element or support to mount the heater and point at the desired direction of airflow.

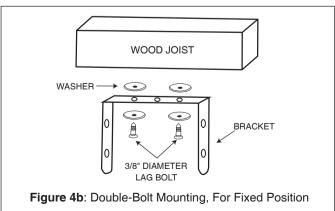
- A. Mount the bracket with the wood joist. Refer to Figures 4a and 4b.
- 1. Drill a 0.25" pilot hole in the wood joist for the 3/8" lag bolt(s).
- 2. Place the bolt(s) and washers as shown in the Figures 4a or 4b.

Figure 4a: For Single-Bolt Mounting (center bracket hole only).

(If you want to swivel the heater, a longer Lag bolt may be required to properly secure the heater. This bolt is ot included.)

Figure 4b: For Double-Bolt Mounting (both off-center holes are used).

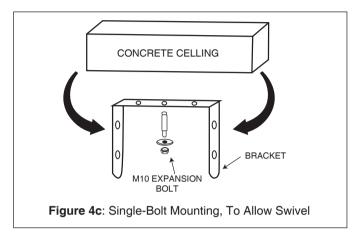


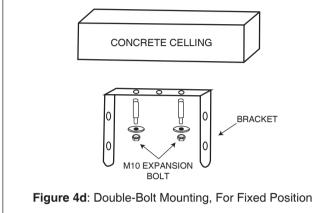


- B. Mount the bracket with the concrete ceiling. Refer to Figures 4c and 4d.
- 1. Drill a 0.47" pilot hole in the ceiling joist for the expansion bolt(s).
- 2. Place the bolt(s) and washers as shown in the Figures 4c or 4d.

Figure 4c: For Single-Bolt Mounting (center bracket hole only).

Figure 4d: For Double-Bolt Mounting (both off-center holes are used).





#### HANGING THE HEATER IN THE BRACKET

- 1. Lift the heater into the mounting bracket and align the lower bracket holes with the threaded holes nearest the heater's center.
- 2. Thread a large knob-screw through the hole on each side of the bracket.
- 3. Aim the heater horizontally or tilted by aligning the upper bracket holes with the top threaded holes on the heater and secure with the small knob-screws and tighten all (See **Figure 5**).

**NOTE:** This heater is heavy. It is recommended 2 or more adults fulfill the assembly at this step to prevent damage or injury.

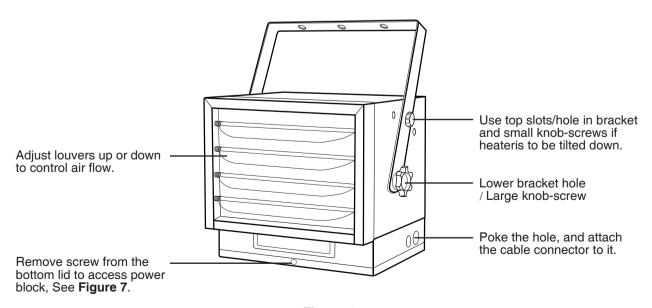
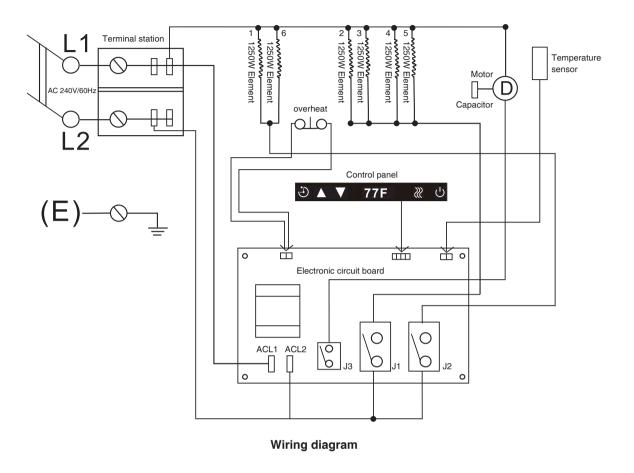


Figure 5

# **CONNECTING THE POWER**



WARNING: This appliance must be grounded.

WARNING: This appliance must connect to a current protection circuit or device at 50 Amp or less before being connected to power supply!

NOTE: All wiring must be carried out by a Certified Electrician and must be in accordance with national and local electrical codes in the United States.

- 1. With the power off at the breaker, remove the screw from the bottom lid to access the power block of the heater (See **Figure 5**).
- 2. Poke the hole at the side of the heater. Attach the cable connectors to the hole (See **Figure 5**) and slide the wire through the cable connector.
- **NOTE:** For certain applications, conduit may be required (See **Figure 6**). Check the local electrical codes. If you plan to run the wiring in conduit and want the flexibility to adjust the heater's position, make sure to purchase sufficient flexible conduit that allows for easy turning of the heater.
- 3. Pull enough wire into the heater and connect the wire to the Power Block located in the electrical area of the heater (See **Figure 7**).
- 4. Must tightly torque all terminal screws and power block lugs. Refer to **SPECIFICATION** and NEC / local codes, for the required torque values. Failure to do so may cause overheating.
- 5. Turn on power at the main circuit breaker panel.

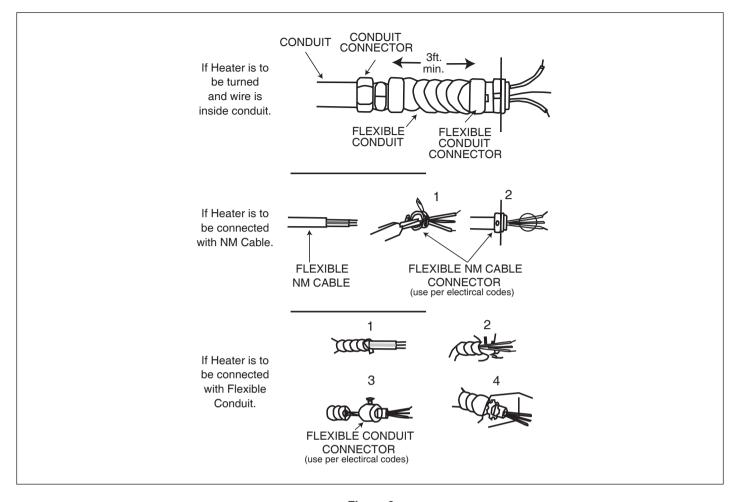


Figure 6

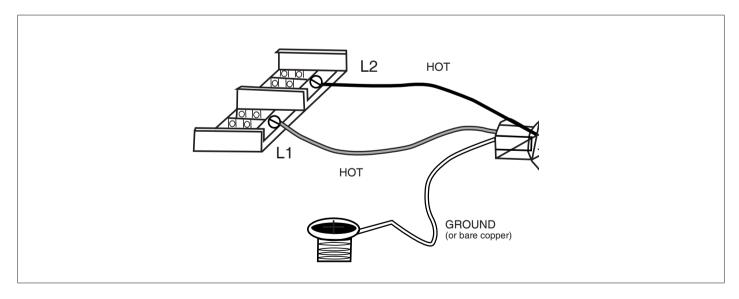


Figure 7

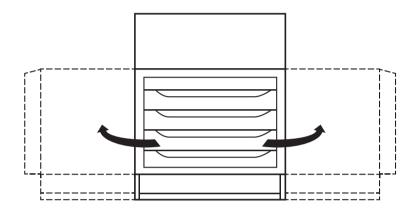
**WARNING:** It is advised that at the start of each heater season, the power should be turned off at the circuit breaker and the LI & L2 lug screws checked for tightness and proper torque. The heater should be cleaned and checked for mechanical and electrical integrity. See SPECIFICATION and NEC / local codes.

# **ADJUSTING AIR FLOW**

**WARNING:** To prevent electric shock, disconnect the power to the heater at the main service box before attempting to adjust the louvers.

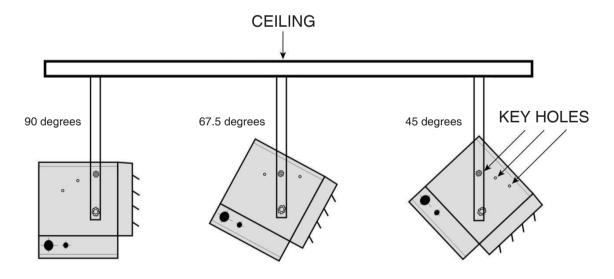
#### 1. Swivel the unit

If the heater is mounted on a single center lag bolt (see Figure 4a / 4c), you can adjust the entire heater and bracket assembly by turning it left or right.



#### 2. Tilt the unit

Loosen the top Small Knob-Screws and thread them into provided holes in the heater until tight.



#### 3. Adjust the louvers as desired.

See Figure 5.

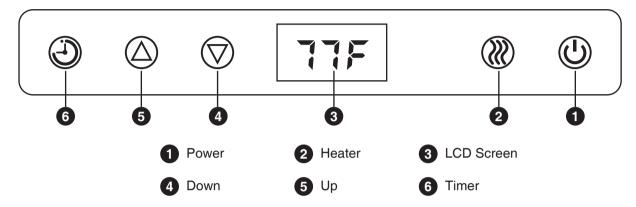
NOTE: When the heater is on, please avoid adjusting the louvers with bare hands to prevent burns.

NOTE: DO NO OPERATE THE HEATER WITH THE FRONT LOUVERS CLOSED, OTHERWISE CAUSE DAMAGE TO THE HEATER.

# **OPERATING**

**WARNING:** The heater must be properly installed before use.

#### **Control Panel**



When the heater is plugged in, all buttons will flash and the screen will display the environment temperature and heating stage 'OFF' alternatively every 15 seconds.

#### 1. Power Button

- Press this button to power on the heater, all icons will display on the screen.
- Press the Power Button to turn off the heater, the motor will be turned off in 30 seconds, and the heat will be blown out.
- Press the Power button for 10 seconds, to lock the heating function. At this time, the heater button has no function when pressing it. Then press the Power button for 10 seconds again, to unlock the heating function. (The digital screen flashes 6 times before the setting is locked or unlocked).

NOTE: When the heating function is locked, press the heater button only to switch between 'OFF' and 'FA'.

#### 2. Heater Button

• Press the Heater Button to turn on the heat. Press again to cycle through different setting as follows:

Heater Setting	Display Value	Heater Performance
OFF	OFF	Fan Off, Heating function Off, The fan will be turned off in 30s.
Fan Only	FA	Fan On, Heating function Off
5000W Low	L	Fan On, Heating function On, The default setting temperature is 77°F/25°C.
7500W High	Н	Fan On, Heating function On, The default setting temperature is 77°F/25°C.

**NOTE:** The heating function activates only when the setting temperature is higher than the environment temperature; otherwise, the heater engages the fan only.

Press and hold the Heater button for 5 seconds to switch between Fahrenheit (°F) and Celsius (°C) display.

#### 3. LCD Screen

- Displays information about the settings you are using.
- After adjusting the heater and timer settings, the screen will display the working environment temperature, heating stages and timer setting alternatively for each 15 seconds.

#### 4 & 5. Up & Down Button

• Press the Up & Down button to adjust the temperature setting between 50°F - 95°F(10°C - 35°C). See the table for detailed temperature setting instruction.

NOTE: Please note that the Up & Down button functions exclusively when the heating function is on.

Fahrenheit Temperature	50°F	51°F	52°F	 93°F	94°F	95°F
Display	50F	51F	52F	 93F	94F	95F
Celsius Temperature	10°C	11°C	12°C	 33°C	34°C	35°C
Display	10C	11C	12C	 33C	34C	35C

When the timer function is active, press the Up & Down button to adjust the timer setting.

#### 6. Timer Button

- Controls the amount of time that the heater will run before powering off.
- Press the Timer button to activate the timer function. Press again to cycle through different timer settings. See the table for detailed timer setting instruction.

Timer Interval	1 Hour	2 Hours	3 Hours	4 Hours	 7 Hours	8 Hours	OFF
Display	1 H	2 H	3 H	4 H	 7 H	8 H	\

• The timer function will exit without any action in 5s.

NOTE: The timer function is not an excuse to leave the heater unattended.

When the desired temperature is reached, the heater will automatically stop heating, and the environment temperature reading will flash continuously.

NOTE: Heater will cycle on and off to maintain the set temperature.

#### THERMAL CUT-OUT

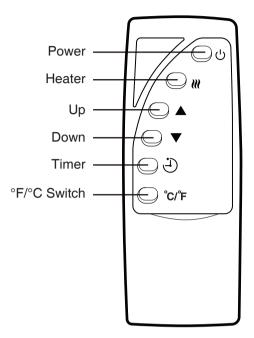
The heater will automatically shut off when parts of it overheat. The heater will turn ON again when the abnormal temperature returns to normal levels. Should the unit overheat and cause the thermal cut-out to cycle, the cause of the overheating should be determined and corrective action taken before further operation.

NOTE: When the thermal cut-out is activated, the control panel will show 'ER' In this case, please turn off the heater immediately and check for any objects on or near the heater that might be obstructing the airflow or causing high temperature.

DO NOT OPERATE THE HEATER WHEN SHOWING 'ER'.

#### **Remote Control**

The remote control can be used up to 19.7 feet (6 meters) away from the heater, so long as there are no obstructions between the remote control and the heater. The remote can control all the settings as the control panel does.



#### **Remote Control Batteries**

Press and slide the battery cover on the rear of the remote and remove the cover. insert two new AAA 1.5V batteries into the battery compartment. Ensure that the polarity is correct. Batteries are not included in the package due to safety during transportation.

NOTE: Do not mix old and new batteries together in the remote. Do not mix alkaline, standard (carbon-zinc), or rechargeable (NiCad, NiMh, etc.) batteries together.

#### **DISPOSAL OF USED BATTERIES**

Battery may contain hazardous substances which could endanger the environment and human health.



This symbol marked on the battery and or packaging indicates that used battery shall not be treated as municipal waste. Batteries should be disposed of at an appropriate collection point for recycling. By ensuring the used batteries are disposed of correctly, you will help prevent potential negative consequences for the environment and human health. The recycling of materials will help to conserve natural resources. For more information about the recycling of used batteries, please contact your local municipality waste disposal service.

# **CARE AND MAINTENANCE**

#### NOTE:

Before cleaning, make sure the heater is OFF and has been disconnected from the power at the circuit breaker and that the heating element of the heater is cool.

Do not disassemble the heater to clean it.

- Use a vacuum or duster to remove dust and dirt from the heater and vent areas.
- Clean with a soft, damp cloth and buff with a dry cloth to maintain the luster of this product.
- Never use abrasive cleaners, liquid sprays, or any cleaner that could scratch the surface of the appliance.
- During summer or at other times when the appliance is not in use, disconnect the power supply, and cover the whole appliance with a dust cloth. Moreover, keep the appliance in a dry and cool place.
- All other servicing should be performed by qualified service personnel. Do not try to repair the heater yourself.

# **TROUBLESHOOTING**

Error Code	Possible Cause(s)	Recommended Solution
ER	Overheat safety cut-off.     Temperature sensor is loosened or damaged.	<ol> <li>DISCONNECT THE POWER!</li> <li>Check if the heater has any objects to be covered, and if the motor is working. Normally, when the temperature is below 149°F (65°C), the heater will restore to the status of your settings.</li> <li>Check the temperature sensor, re-tighten it. If it still does not work, contact turbro service team.</li> </ol>
E1	Temperature sensor is loosened.     Temperature sensor is damaged.	DISCONNECT THE POWER!  1. Check the temperature sensor, and retighten it.  2. If it still does not work, contact turbro service team.
E2	No buttons work over 20 seconds.	DISCONNECT THE POWER! Restart the unit.
Temperature reading flash continuously	Ambient temperature is over 95°F( 35°C).	When the ambient temperature is below 95°F(35°C), it will restore to the status of your settings.

# **WARRANTY INFORMATION**

TURBRO provides a 1-year limit for TURBRO Heater, from the date of purchase, subject to the following conditions and limitations.

#### WHAT IS COVERED?

- Any alteration or misuse of the product will nullify this warranty.
- This warranty is non-transferable and is effective for the original buyer from the authorized seller only.
- 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).

#### WHAT IS NOT COVERED?

- Damage caused by the owner when attempting to fix or alter the product themselves.
- Damage caused by misuse, abuse, neglect, alterations, or unauthorized repair.
- Natural depreciation.

#### **HOW TO REQUEST WARRANTY SERVICES?**

• To obtain the benefit of this warranty please leave a message online (turbro.com/pages/contact-us), or send an email to *support@turbro.com*. Our customer service will address your issue within 24 hours.

#### WHAT WILL TURBRO DO?

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

# TURBRO



<u>support@turbro.com</u>



**(323) 438-3334**