

# Operating Instructions

## Air Top 2000 ST

(Control Rheostat Only)



Feel the Drive

### Introduction



Dear Webasto Customer,  
Thank you for choosing the Webasto Air Top 2000 ST air heater.

The Air Top 2000 ST heater is used

- to heat cabins, boats, trucks, minibuses, vans and motor homes and
- to defrost vehicle windows.

We presume that the principle and mode of operation of your new heater has been explained to your complete satisfaction by the workshop/service centre which installed the heater. In these operating instructions we would like to once again provide you with an overview of the safe use of the Air Top 2000 ST heater.

Repair or maintenance work not described here may only be carried out by an authorized Webasto dealer.



**WARNING:** Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### Servicing and safety instructions

1. When heater is in use, the surface of the hot air outlet may become hot to the touch. Contact with skin may cause burns.
2. The year in which the heater was used for the first time must be permanently displayed on the factory plate by deleting the inapplicable years from the plate.
3. **The heaters are not designed for heating hazardous substance transport compartments.**
4. **Webasto heaters must be switched "off" when re-fueling at filling stations and/or while loading or unloading flammable materials for transport, to prevent the risk of explosion. Please review the owner's manual for safety and use instructions.**
5. **The heater may not be operated in enclosed spaces (such as garages) as a result of the risk of poisoning and asphyxiation, even if a timer or remote is used.**
6. In the event of long-lasting heavy smoke development, unusual combustion noises or a smell of fuel or if the heater suffers continuous fault cut-outs with error messages (flashing code), it must be shut down by removing the fuse and must not be used until it has been inspected by Webasto-trained personnel.
7. **Wherever inflammable vapors or dust may form (for example in the vicinity of fuel, carbon, wood dust, etc...), the heater must be switched off as a result of the risk of explosion.**
8. **The heat transfer unit on air heaters is exposed to very high thermal stress and must be replaced by a genuine Webasto spare part ten years after it is used for the first time. If exhaust lines pass through areas used by personnel, they must also be replaced by genuine spare parts after ten years.**
9. The fuel specified by the vehicle manufacturer is suitable for use in the Air Top 2000 ST B (petrol EN228).
10. The diesel fuel specified by the vehicle manufacturer is suitable for use in the Air Top 2000 ST D (diesel EN590).
  - No negative influences due to additives.
  - If fuel is extracted from the vehicle's tank, follow the additive instructions issued by the vehicle manufacturer.
  - If you change to low-temperature fuel, the heater must be operated for approx. 15 minutes so that the fuel system is filled with the new fuel.
11. The temperature in the area around the heater must not exceed 85 °C (storage temperature). If the temperature exceeds this level there is a risk of permanent damage to the electronics systems.
12. Noncompliance with the installation instructions and the warnings contained therein will lead to the exclusion of all liability by Webasto. The same applies if repairs are carried out incorrectly or with the use of parts other than genuine spare parts. This will result in the invalidation of the type approval for the heater unit, and therefore of its homologation/EC type licence.
13. Keep the hot air inlet and hot air outlet free of dirt and foreign bodies. Soiled or blocked hot air lines may cause overheating, and therefore result in the overheating cut-out tripping.
14. To prevent mechanical parts seizing, the heater should be operated for approx. 10 minutes every four weeks.
15. Do not stand on the heater and do not place any heavy items on the heater or throw items at the heater.
16. Do not place any items of clothing, textiles or similar materials over the heater or in front of the hot air inlet and the hot air outlet.
17. The current of hot air in the heater must not be restricted or blocked by highly inflammable substances or materials such as rags, cleaning wool, etc.
18. The heater must not be cleaned with a high pressure cleaner.

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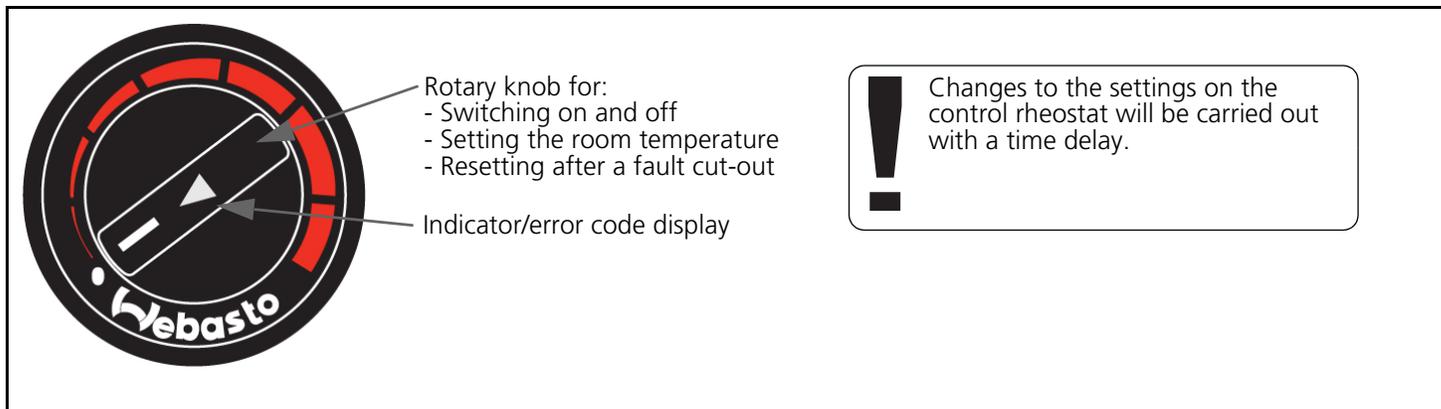
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### Control Rheostat



### Switch On

Set the rotary knob on the control rheostat to the desired position.



**NOTE:**

To prevent the hot and combustion air fan from blocking or scraping, ensure that there are no objects on or against the heater before you switch it on.

### Ventilation Option (Optional)

A separate switch (not included in kit) allows the user to choose between heating and ventilation mode. In ventilation mode the fan speed depends on the position of the control rheostat.

### Actions in event of faults

If an error occurs, first check the fuse and plug connections to ensure that they are in good condition and connected properly. If the actions described below do not rectify the error, have the heater checked by Webasto-trained personnel.

### Heater unit cuts out automatically

Cause	Remedy
No combustion after start and repeat start	Switch heater unit off (for at least 2 seconds) and then on again
Flame extinguishes during operation	Switch heater unit off (for at least 2 seconds) and then on again
Heater unit overheats and indicator flashes	Make sure that hot air can flow freely, allow heater unit to cool down, Switch heater unit off (for at least 2 seconds) and then on again
Vehicle voltage too low	Charge battery Switch heater unit off (for at least 2 seconds) and then on again

### Heater unit emits black smoke

Cause	Remedy
Combustion air and/or exhaust system blocked	Check combustion air and exhaust system for blockage

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### Error code output on control rheostat

The error code is communicated by a series of flashes from the error code light in the center of the rotary knob. After a sequence of 5 fast flashes the error code will be communicated by a series of long flashes; refer to the table below for code explanations.

Example: F 03 = Pause Pause

Error code	Meaning
F 00	Control unit error (This error is indicated by (2) series of (5) fast flashes.
F 01	No start (after 2 starting attempts)
F 02	Flame failure (at least > 3)
F 03	Under voltage or over voltage
F 04	Premature flame recognition
F 05	Flame monitor (petrol heater) interrupt or short circuit
F 06	Temperature sensor interrupt or temperature sensor short circuit
F 07	Metering pump interrupt or metering pump short circuit
F 08	Fan motor interrupt or fan motor short circuit or fan motor overload or blocked
F 09	Glow plug interrupt or glow plug short circuit
F 10	Overheating
F 11	Overheating sensor interrupt or overheating sensor short circuit
*F 12	Heater unit lock-out
F 14	Overheating sensor installed incorrectly
F 15	Set point generator short circuit

\* If heater displays a code F-12, this indicates a "Lock-out mode", this can happen after three consecutive failed starts.

### Heater Lock out Reset Procedure:

1. Switch the heater ON
2. Within 10 seconds disconnect power from the heater (unplug the harness, disconnect the battery, remove the fuse)
3. Wait 10 seconds
4. Switch the heater OFF
5. Reconnect power
6. Switch the heater ON.
7. Rectify the cause of the fault

**IMPORTANT:** Heater fault codes can be read using PC Diagnostics, however, the heater lockout reset must be manually performed using the procedure stated above.

If you have any questions, contact our technical support team at:  
(800) 860-7866 or via email at: [info-us@webasto.com](mailto:info-us@webasto.com).

Webasto Thermo & Comfort North America, Inc. (hereinafter referred to as Webasto) warrants their heaters and heater kits against defects in material and workmanship for two (2) years effective at the time of installation or vehicle registration date for original equipment installation (OEM). This warranty period may not exceed three (3) years from the original date of sale by Webasto. This warranty period may be superseded by written contractual agreements.

All models are limited to 2,000 maximum operating hours.

Replacement parts are covered for six (6) months or the remainder of the original warranty period, whichever is longer.

The intent of the Webasto warranty is to protect the original end-user of the heater from defects and provide free repair and replacement of defective parts in the manner provided herein. During the warranty period, the exclusive remedy will be for Webasto, at their discretion, to repair or replace those parts which are demonstrated to be defective in material or workmanship.

While warranty is provided to the "original end-user", it is to be administered and serviced through an authorized Webasto dealer in accordance with the Webasto warranty policy or contractual agreement between Webasto and a second party.

To locate the nearest Webasto authorized dealer for warranty service:

visit <http://www.techwebasto.com> or call (800) 860-7866 in USA, (800) 667-8900 in Canada.

The heater can be registered by visiting [www.techwebasto.com](http://www.techwebasto.com) or by scanning the code.  
A proof of purchase is required for all heaters that are not registered.



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Webasto Product N.A., Inc.  
15083 North Road  
Fenton, MI 48430  
USA

Technical Support:  
Phone: (800) 860-7866

<http://www.techwebasto.com>  
<http://www.webasto.us>