



**USER'S MANUAL**  
**FOR 12V RV AIR CONDITIONER**  
**ROOFTOP AIR CONDITIONER**  
**MODEL: 1-KIT-12VRV-1**  
**Release Date 1/1/2021**

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### **I. General Information**

Your Premier Products Turbo II 12V Air Conditioner was designed to operate from a 12V DC power source capable of supporting a power draw of 100 Amps constant. Your Turbo II was designed with a soft start inverter driven compressor to ensure power draw never exceeds 100 Amps. If the Air Conditioner isn't operating properly, the power supply should be examined first by a qualified technician to ensure a proper power supply is present.

**Air Conditioner Performance:** Your Turbo II air conditioner is capable of cooling the air entering it, as a general rule of thumb, by 17-24 degrees. This can be measured by taking the temperature of the air going into it, and comparing the temperature of the air coming out of the louvers. Humidity levels, sun load on the outside unit, and several other factors can affect this temperature difference however you should always see a 17-24 degree difference. When measuring to ensure proper operation, always allow the unit to operate for 15 minutes before taking these temperatures. As long as you are seeing this temperature difference your AC is operating as designed and at capacity. The following can aid in maintaining a comfortable temperature inside your vehicle: parking in a shaded area, keeping

all windows and doors closed, avoiding prolonged use of heat producing appliances, and lowering any window coverings.

Compressor Protection Circuit: Your Turbo II is equipped with safety switches to protect the compressor from premature failure. If an abnormal condition occurs (Failure of blower or fan motor, dirty condenser coil, dirty air filters) this may cause the compressor to not run. This will be noticed in the temperature difference discussed in the previous paragraph. If after performing the maintenance items in Section III of this user's manual, your AC isn't operating at full capacity, please take it to a qualified technician for further diagnosis.

## **II. Control Operations**

There are 2 options available to control your Turbo II Air Conditioner. Option one is through the Vehicle Control System installed by the vehicle manufacturer. For operation instructions for this option, please refer to the manufacturers user manual for control operation.

Option 2 is with the Premier Products Digital Controller. Please refer to the Digital Controller Users Manual for instructions on control operation.

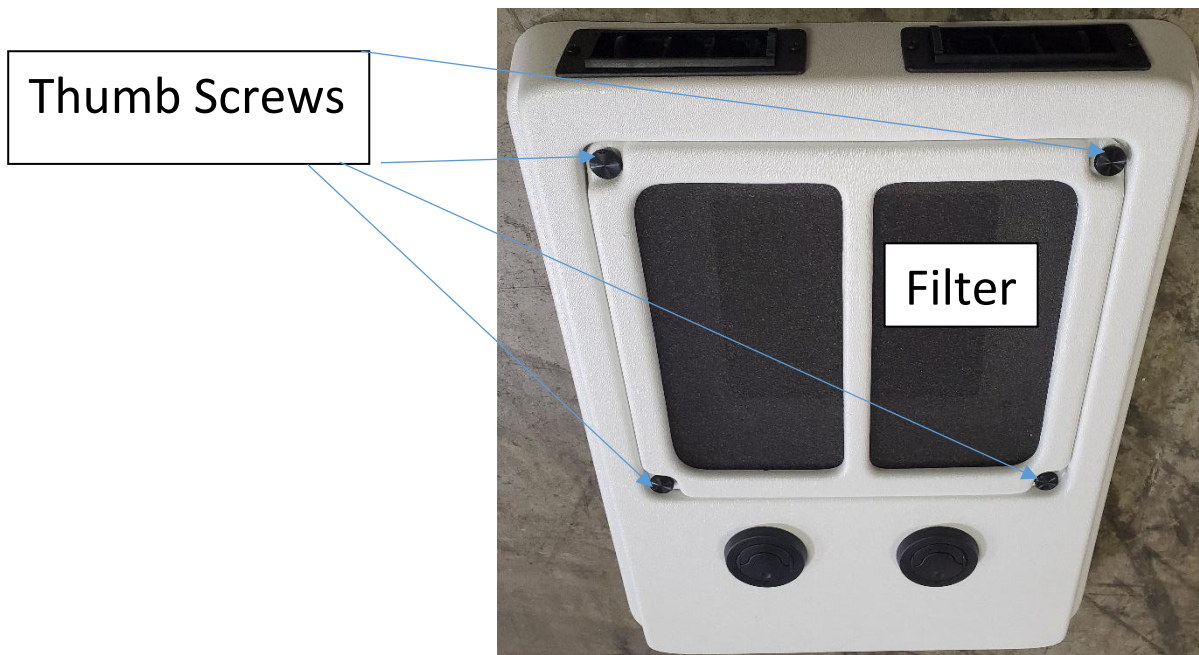
## **III. Maintenance**

Your Turbo II Air Conditioner requires very little regular maintenance. There are only 2 maintenance items that need to be performed by the owner. These are however, very important, as these will help ensure you are getting full capacity from the Air Conditioner.

## 1.)Cleaning of Air Filter

Your AC is equipped with a washable filter that needs to periodically be rinsed out. The filters are reusable and can be cleaned with water. The Filter is designed to capture dirt, dust, grease, lint, etc and keep these things from getting to the internal parts of your air conditioner. When the filter becomes too “clogged”, this can lead to performance issues with your AC including lowered air flow volume and compressor short cycling. **Important: Do not operate your Turbo II for extended periods of time without the air filter installed. This will lead to dirt, dust, grease, lint, etc clogging the cooling coil which will result in a much more costly repair.**

To remove the air filter simply remove the 4 thumb screws from the air filter retaining ring. Lower the ring and filters from the ceiling assembly. Simply rinse out the air filter with water from a sink faucet and then reassemble.



## 2.) Cleaning of Condenser Coil

While driving down the road, over time, the condenser coil of your Turbo II can become partially clogged with dust, dirt, grease, and general road debris. Because of this it is necessary to periodically (once/yr) rinse out the coil with water. **Important: Do not use high pressure water to clean the condenser coil. This can lead to damage of the aluminum fins on the coil which can lead to system failure. Use only normal water pressure from a typical garden hose.** Simply rinsing off this dirt and debris will ensure maximum system performance.



Condenser Coil  
View from Front  
of Vehicle

## IV. Warranty Service

In the unfortunate case that your Turbo II needs warranty or service work, please obtain authorization, service center locations, and technical support via [hvacsupport@premierproducts.net](mailto:hvacsupport@premierproducts.net) or 1-855-881-1800.

# V. Wiring Diagram

