



primuswindpower

AIR Wind Turbine: Quick Start Guide – Important Information

- ❗ **IMPORTANT:** Follow proper storage instructions of your AIR wind turbine to limit any damage and or water ingress when removing front hub/ blades for seasonal storage and or when transporting between projects. Refer to AIR Owner’s manual storage kit instructions Appendix C.
- ⚡ **WARNING:** Rotating blades are a serious mechanical hazard. Install AIR wind turbines so no one can come into contact with blades.
- ⚡ **WARNING!**
 - Please read the AIR Owner’s Manual prior to installation! The AIR Owner’s manual is saved in a USB memory stick, which is included in the AIR box with this quick start guide. The USB stick also includes useful documents, videos, pictures and part accessories for a safe and effective install of the AIR wind turbine. These documents are separated into named files on the USB stick.
 - The most updated version of this manual is located here: www.primuswindpower.com
 - The warranty does not include installation errors of the AIR wind turbine.
 - If you are not familiar with electrical wiring, safety procedures and off grid systems, please use a qualified person to complete the install.
 - Please use high quality terminal connections and correct wire sizing as a poor install may lead to decreased performance or a non-operable AIR turbine.
 - If using Lithium Ion battery type (or Diversion/ Dump load) please refer to the AIR Owner’s manual (Appendix A) prior to installation of the AIR turbine. These installation types may require a Potentionmeter setting change.
- ❗ **IMPORTANT:** Tef-Gel should be applied to all hardware (blade bolts and yaw bolts) during assembly process. Lightly coat the bolt shaft/threads and underside of the bolt head with Tef-Gel. Tef-Gel is used as a corrosion prevention and as an anti-seize lubricant to prevent galling and thread damage.
- ❗ **IMPORTANT: SERIAL NUMBER BELOW RETAIN THIS DOCUMENT FOR YOUR RECORDS**
- ❗ **IMPORTANT: BEFORE INSTALLATION!!**
 - **All AIR turbines are voltage specific.** Before connecting your AIR turbine to the Battery Bank, please be sure the voltage of the turbine matches the voltage of the battery bank.
 - Be sure to pay attention to **correct polarity** when connecting your positive and negative (Red/Black) turbine wire leads. A reversed polarity connection will damaged the internal control circuit and this would void the warranty.
 - Green Wire is ground and proper turbine grounding of the AIR turbine is critical to operation and protects people and equipment. Refer to AIR Owner’s manual for specific grounding recomendations.
 - Properly sized Breaker (recomended) or Slow Blow Fuse is required in the AIR install to protect wiring and additional off grid equipment from over current faults.
 - Determine your wire size using chart in manual for specific AIR turbine, wire run distance and voltage. Stranded, cooper wire is reccomended.
 - Read the AIR Owner’s Manual prior to the start of installation.

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INSTALLING THE AIR WIND TURBINE:

- Assemble the blade set first using proper torque for hardware and use tef-gel/aplicator included in your hardware kit. Tef-Gel should be applied to all hardware during assembly process. When installing the AIR X Marine/AIR 30 unit blades, it is recommended to perform tip to tip measurement of blades to avoid vibration. Read AIR Owner's Manual for procedure.
- All AIR turbines use a 1.5 inch SCH. 40/80 tower pipe (1.875 inch OD). The YAW of the turbine slips into this size pipe with the YAW pad in place. Lift turbine 1/8 of an inch to isolate turbine on YAW pad to minimize vibration transfer from turbine to tower.
- Be sure all 3 WIRE connections (RED-BLACK-GREEN) are properly secure in tower pipe as non solid connections can lead to operational issues.
- After proper installation of HUB nut, secure nose cone on all 3 tabs on HUB. Rotate blade set and listen for nose cone clicking or check any rubbing with HUB on FACE of AIR turbine.
- Prior to tower tilt up, power up turbine, be sure to check for the 2 LED blinks to assure the proper connection of turbine to battery. Refer to AIR Owner's Manual on this topic and LED operation.



AIR MAINTENANCE:

- Within 30-60 days after initial turbine install, check blade bolts, hub nut and YAW bolts for proper torque to ensure safe long term operation of the AIR unit.
- Every 6-12 months, repeat procedure inspection procedure of hardware and include the inspection of the Blade set for chips or nicks. Please refer to Maintenance section in AIR Owner's Manual for specifics on this topic.

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