

639581 Revision G, Apr 2025

ANDREW RET Control Cables Guide ATCB-B01 Series

ATTACHING CONTROL CABLES

1. The connectors on RET control cables are keyed to provide a matching fit. Ensure that the dielectric grease has been added to connector pins before the connection is made.
2. The control cable connector at the base station end of a home run cable should always be male. See Figures 1 and 2.
3. Secure jumper cables without pulling actuators to either side.
4. Connections should be hand tightened only. Over-tightening can shear pins off of internal components of equipment.

RET cables can damage these pins if twisted with too much force on removal. The tightening torque of the AISG connector should not exceed 1.5N.m.

SECURING AND GROUNDING CONTROL CABLES

1. The main RET control cable, feeding to the tower structure, should be secured at 2 m intervals and 1 m from either end using cable ties (ANDREW 40417), hangers (ANDREW 68MCLICK), or similar fasteners.
 - Feeder cables between junction boxes and actuators should be secured every 0.5 m to avoid excessive wind vibration.
 - AISG connector cable first secure point between antenna or radio interface connector require no more than 0.5 meter distance. Over 2 meter cable require secure every 1 meter.
2. ANDREW recommends grounding RET systems on the top and bottom of the site.
 - At the top: By grounding a top Smart Bias Tee (SBT), AISG TMA, junction box, lightning protection unit, or using a ATGK-COMP grounding kit.
 - At the bottom: By grounding a lightning protection unit, junction box, bottom SBT, dc 2.1 bias tee, or using a ATGK-COMP grounding kit.
 - ANDREW recommends using an ATGK-CABLE grounding kit (Bulletin 639596) for runs over 60 m and at

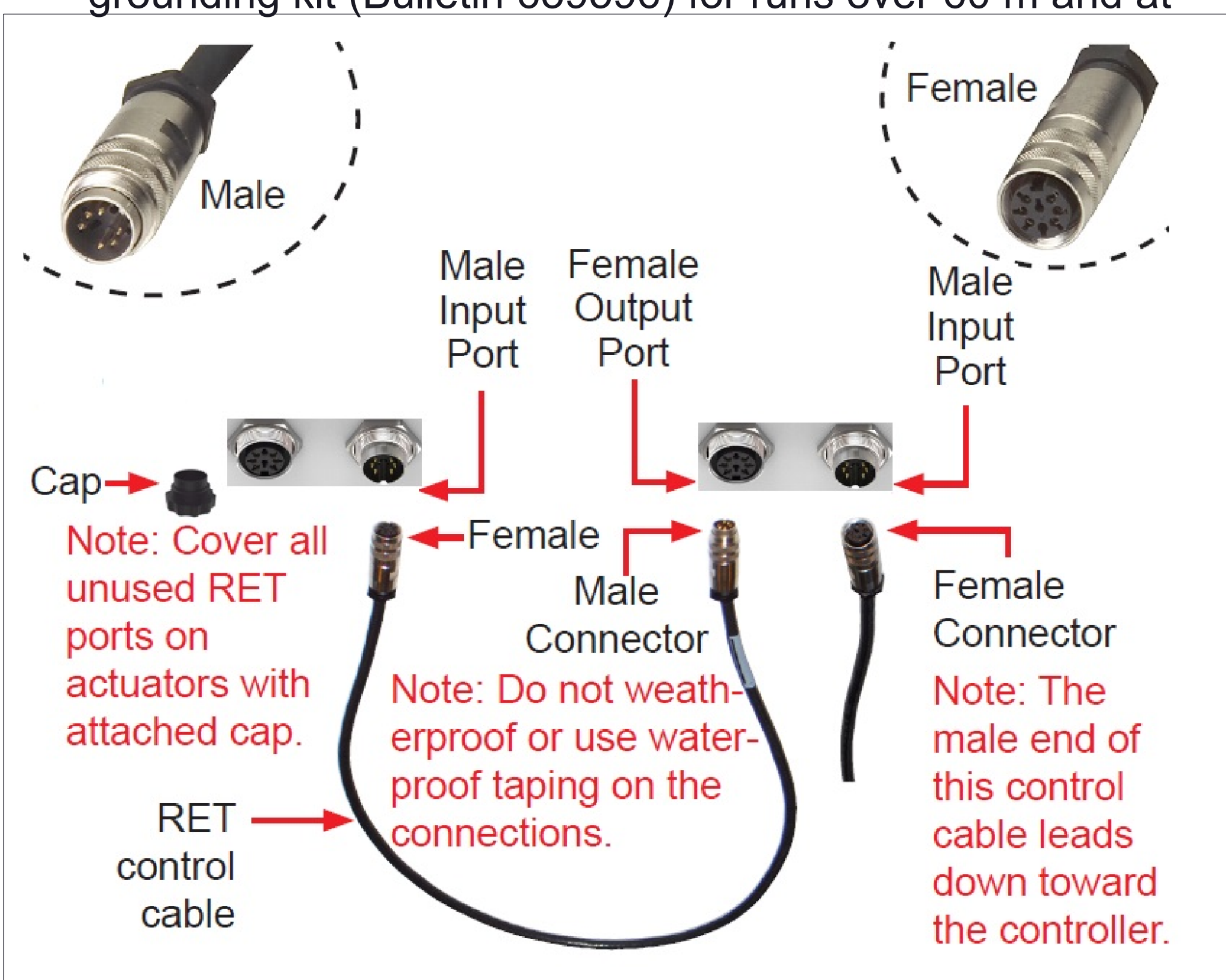


Figure 1. Attaching Control Cables to ANDREW Actuators.

60 m intervals. This grounding kit clamps onto the RET connectors, where 2 cables are joined together, without cutting into cables (Figure 2).

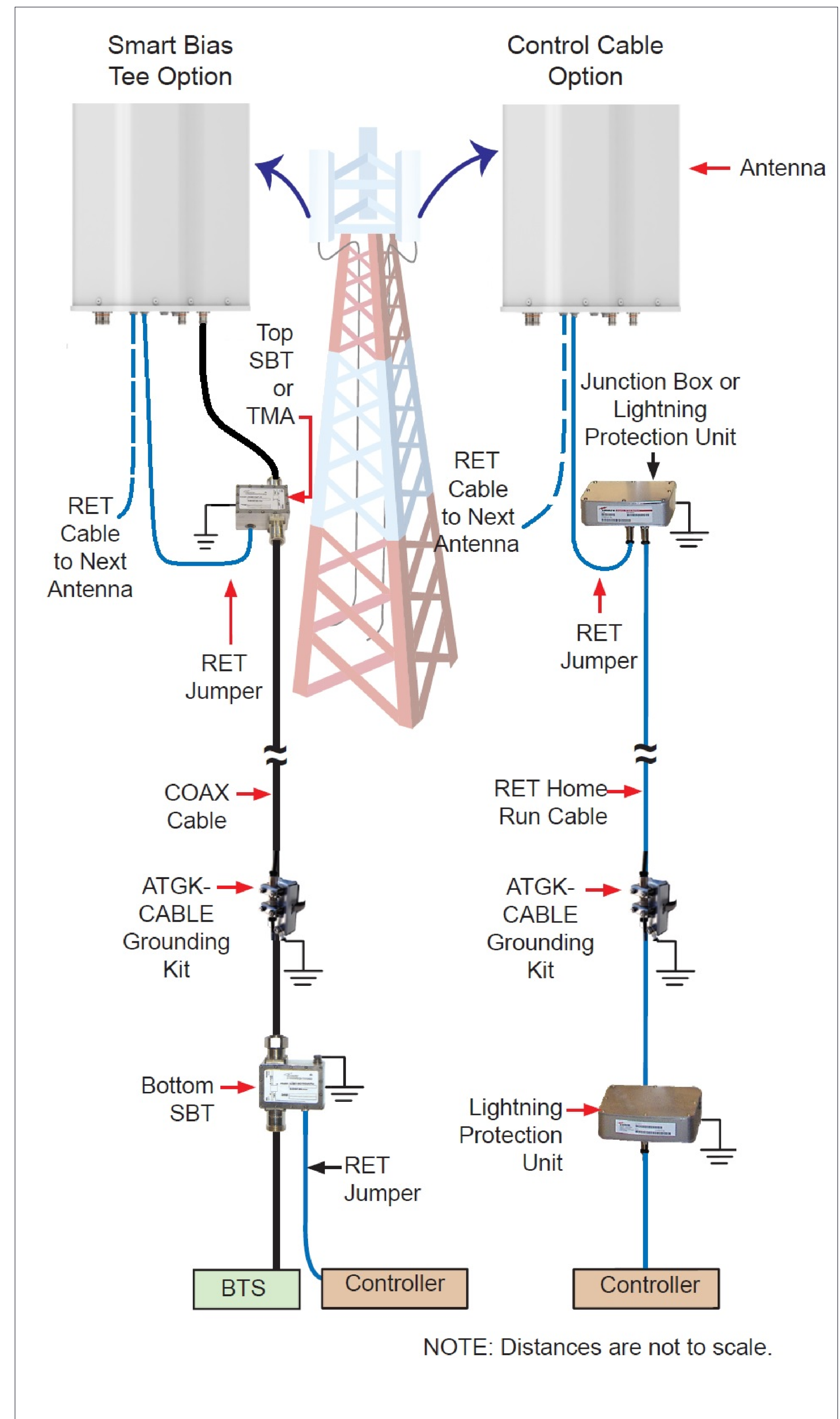


Figure 2. ANDREW RET Control Cables Feed Data and Power From Controller to RET System.

(Continued from page 1)

See detailed instructions about the ATCB-B01 Series Control Cables online. Go to [www.andrew.com/Product Catalog/Wireless/Product/Antenna-Systems/Base-Station/Remote-Electrical-Tilt-\(RET\)-Products](http://www.andrew.com/Product Catalog/Wireless/Product/Antenna-Systems/Base-Station/Remote-Electrical-Tilt-(RET)-Products), then select a part number and click the Documents/Tools tab.

WARRANTY NOTICE

Proper installation procedures must be followed when installing and operating RET equipment. Failure to assure installations are done properly by trained installation personnel and to follow procedures discussed in this bulletin may cause warranty for such products to be void.

ANDREW requires pretesting actuators on the ground prior to installation, using the ANDREW portable controller and the latest version of the controller software (available online at www.andrew.com/Resources/Software). This will verify proper actuator functionality and also ensure that the latest available actuator firmware release is installed on the actuator. Failure to conduct pre-test and pre-installation procedures defined by ANDREW will void warranty.

Unauthorized removal of a protective shroud to replace actuators voids the ANDREW warranty.

SAFETY NOTICE

The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. ANDREW installation instructions are written for such installation personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

ANDREW disclaims any liability or responsibility for the results of improper or unsafe installation practices.

It is recommended that transmit power be turned off when the field installation is performed. Follow all applicable safety precautions as shown on this page.



Do not install near power lines. Power lines, telephone lines, and guy wires look the same. Assume any wire or line can electrocute you.



Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.



Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.