

THANK YOU FOR PURCHASING THE AR-600 ANTENNA ROTATOR.

This rotator is designed for small VHF/UHF/6 Meter/HD TV/TV/FM and other light weight antennas. The AR-600 is programmable, capable of remembering up to 12 directions even after power outages and includes a remote control.

PRE- INSTALLATION TEST

To ensure your AR-600 functions properly before permanent installation, we recommend the following test:

1. Remove the bottom rotator cover.
2. Record the color of each wire attached to terminal lugs 1, 2, and 3.
3. With the Control Unit "OFF" attach the open end of the test cable to the Control Unit. The terminal lugs are located at the bottom of the Control Unit. Connect the wires from the test cable to the corresponding color wires on Drive Unit terminals 1, 2, and 3.
4. Turn on the Control Unit and confirm if the wiring is correct. Press the "Right"(►) arrow key, the rotator should turn clockwise. Press the "Left"(◀) arrow key, the rotator should turn counterclockwise.

If this test is successful, remove the test cable and proceed with the permanent installation.

OUTDOOR DRIVE UNIT INSTALLATION

Step 1: Drive Unit Connection

1. Use up to 280' (84m) of 20AWG color-coded, 3-conductor cable.

For longer distances, use a thicker gauge.

2. To connect the cable:

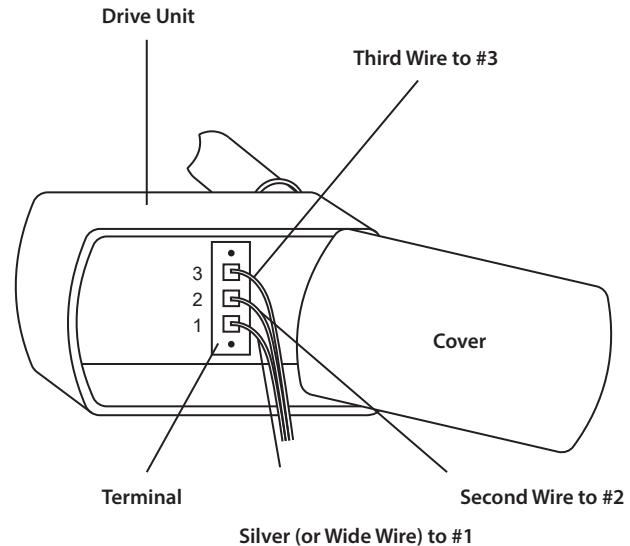
- Open the cover with a screwdriver.
- Remove the grommet and insert the cable through the slot.
- Replace the grommet to seal the housing, ensuring no moisture collects inside.

3. Separate the cable leads by 1½ inches:

- Connect the **silver or wide jacketed lead** to **Terminal 1**.
- Connect the next lead to **Terminal 2**.
- Connect the third lead to **Terminal 3**. If using a 4-wire cable, connect both wires 3 and 4 to **Terminal 3**.
- Take note of the wire color connected to each terminal number.

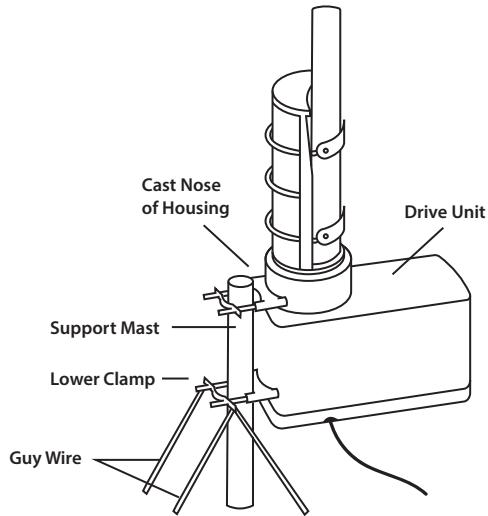
4. Ensure all connections are secure, with no stray wires that could cause a short circuit.

5. Recheck connections and close the cover securely



Step 2: Drive Unit Mounting

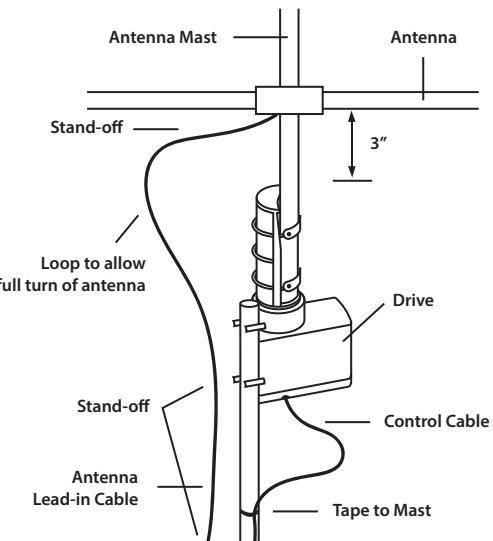
1. Attach the rotator to the support mast:
 - Loosen the nuts on the clamps.
 - Lower the rotator until its cast nose rests on the mast.
 - Tighten the nuts moderately with a 7/16" wrench.
Avoid over-tightening, as this can weaken the mast.
2. For mast diameters between **1 1/4" to 2"** (3-5cm), ensure a secure grip.
3. If using guy wires, pass two through each of the lower clamp's holes.



Step 3: Antenna and Cable Installation

1. Connect the antenna lead-in cable to the antenna and secure it to the mast using standoff insulators (recommended every 4 feet).
2. Allow a generous loop at the drive unit to accommodate movement.
3. Secure the rotator control cable directly to the mast.

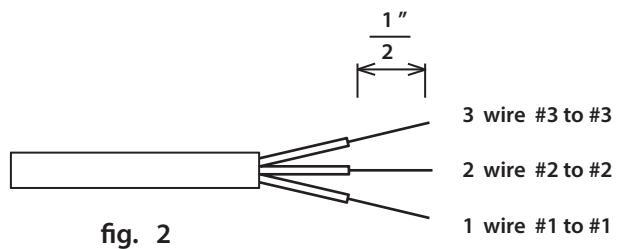
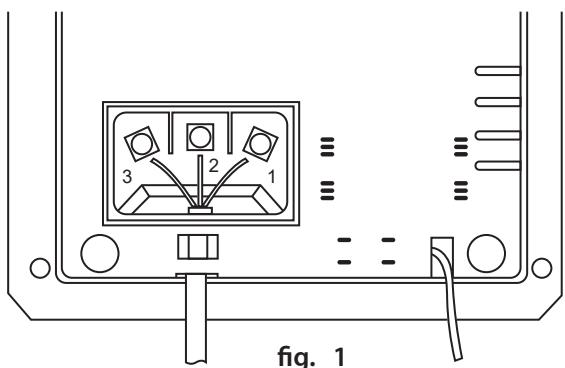
Caution: Choose a mounting location where the antenna cannot contact power lines during installation or if a guy wire fails.



INDOOR CONTROL UNIT INSTALLATION & PROGRAMMING

Step 1: Control Unit Wiring

1. Strip $1\frac{1}{2}$ inch of insulation from each conductor of the rotor cable.
2. Insert the bare conductor into the connector plate at the rear of the control unit and secure as shown in **Fig. 1** and **Fig. 2**.
3. Connect #1 wire to the corresponding #1 terminal wire #2 wire to the corresponding #2 terminal wire and the #3 to the #3 terminal wire.

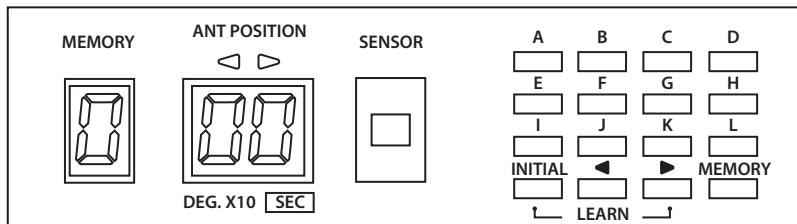


Step 2: Power On

1. Plug the control unit into an AC outlet and turn it on. The AR-600 is designed for 120 VAC
Do not plug into a 240 VAC socket.
2. The **MEMORY** display will show "0," and the **ANT POSITION** display will show "00."

Step 3: Synchronize the System

1. Press the **INITIAL** key to synchronize the control unit with the rotator. The **ON** lamp will stop blinking once synchronization is complete.



Step 4: Calibration (Learning Mode)

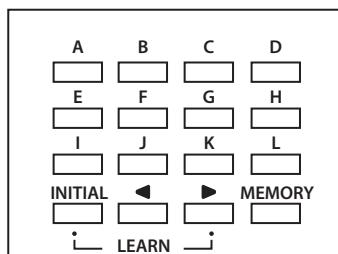
1. Press and hold the **INITIAL** key and the clockwise (►) key simultaneously. The **ANT POSITION** display will count down from 36 to 0.
2. Release both keys when completed. This calibrates the rotator for a full 360° range

Note: Perform the learning process before mounting the antenna mast.

Step 5: Storing Antenna Positions

1. Tune your radio to the desired frequency.
2. Use the clockwise (►) and counterclockwise (◀) keys to adjust the antenna for the best reception.
3. Press the **MEMORY** key; the **ANT POSITION** indicator will blink.
4. Select one of the 12 memory keys (A-L) to store the position. Repeat for additional antenna heading.

Note: The antenna heading is the controller display value multiplied by 10. For example, if the display shows 8, the correct heading is 80.



MEMORIES RESET PROCEDURE

1. With the unit off, locate and hold down both the bottom left and bottom right buttons on the keyboard.
2. While holding these buttons, turn the unit on.
3. You can then proceed with the normal calibration routine, which takes approximately one minute.
4. During calibration, the numbers should start at 360 and count down to 0.
5. After reaching 0, the rotator will shut off and be ready for use. All memories will be cleared.

OPERATION

Automatic Positioning

- Press the memory key corresponding to the station's position to rotate the antenna automatically.

Manual Positioning & Fine Tuning

- Use the clockwise (►) and counterclockwise (◀) keys for manual adjustments.

Interrupting Rotator Movement

- Press the clockwise (►) or counterclockwise (◀) key to stop the rotator immediately while moving to a stored position.

Re-synchronization

- If the rotator appears misaligned after a storm or power outage, press the **INITIAL** key to re-synchronize.

SERVICE INFORMATION

1. Unplug the unit from the wall outlet and rotator before servicing.
2. Use only replacement parts with identical electrical specifications.
3. Perform leakage-current or resistance tests to ensure safe insulation before returning the unit to service.



TWO YEAR LIMITED WARRANTY

This Limited Product Warranty is provided by the Dealer where your Intellitron product was purchased. The Product Warranty extends only to the original purchaser of the product and is valid for a period of two years from the date of purchase. Please keep your dated sales receipt as evidence of the date of purchase. You will need it to receive warranty service. Your Dealer warrants the product will be free from defects in workmanship and materials under normal use. If the product fails to conform to the warrant and is within the warranty period of two years, contact your original dealer for a return authorization. Your dealer may choose to either repair or replace the non-conforming product.

PRE- INSTALLATION TEST

To ensure your AR-600 functions properly before permanent installation, we recommend the following test:

1. Remove the bottom rotator cover.
2. Record the color of each wire attached to terminal lugs 1, 2, and 3.
3. With the Control Unit "OFF" attach the open end of the test cable to the Control Unit. The terminal lugs are located at the bottom of the Control Unit. Connect the wires from the test cable to the corresponding color wires on Drive Unit terminals 1, 2, and 3.
4. Turn on the Control Unit and confirm if the wiring is correct. Press the "Right" (►) arrow key, the rotator should turn clockwise. Press the "Left" (◀) arrow key, the rotator should turn counterclockwise.

If this test is successful, remove the test cable and proceed with the permanent installation.