

FULL AUTOMATIC ANTENNA ROTATOR



Your new, Antenna Rotator orients the antenna and provides radio/TV receiver with the optimum reception.

CAUTION:

Household AC line voltage is applied to the rotator; use enough care for the installation and electrical connection. Please read this instruction carefully before the installation.

Features you will enjoy are:

- This model rotates the antenna 360° and orients it for optimum radio/TV reception.
- This unit is built compact and rugged, and easily handles the TV or FM antenna as well as light-weight HAM antenna.
- The Rotator Unit mounts either onto antenna pole and or stationary base.
- The bearing of Control knob of the Control unit synchronizes rotator orientation. Just turn the control knob to the desired bearing and the antenna will orient: on/off switching of the rotator is done automatically.

CAUTION:

DO NOT DRIVE THE CONTROL UNIT WITHOUT CONNECTING THE ANTENNA DRIVE UNIT. IT CERTAINLY GIVES SERIOUS DAMAGE TO THE BOTH OF CONTROL UNIT AND THE ANTENNA DRIVE UNIT.

SPECIFICATIONS

Input voltage	: AC 100 ~ 120V/200 ~ 240V (Switchable) 50/60 Hz 40VA Max.
Drive Motor Voltage	: AC 24V
Rotation	: 360° plus 15° with Mechanical Stop
360° Rotation Time	: 50 Hz.—70 seconds, 60 Hz.—58 seconds
Rotation Torque	: 200 kg-cm Min.
Stationary Braking Torque	: 1000 kg-cm Min.
Mast Size	: 22 ~ 40 mm diameter
Vertical Load	: 50 kg Max.
Connection cable	: 3 conductors/0.5 mm ² (#20)
Wind Load Area	: 0.25 m ²
Dimensions	: Control Box 140(W) x 71(H) x 180(D) mm Drive Unit 152φ x 330 (H) mm
Weight	: Control Box 600 g Drive Unit 3.1 kg

- Specifications are subject to change without notice.

ELECTRICAL CONNECTION

CAUTION:

This unit uses household AC power source. Use enough care for the power connection. Be sure to check **VOLTAGE SELECTOR** on the bottom of Control box is correctly set, prior to the connection.

VOLTAGE SELECTOR

Select either AC100-120V or AC200-240V. Refer to Figure 1 and set to correct position.

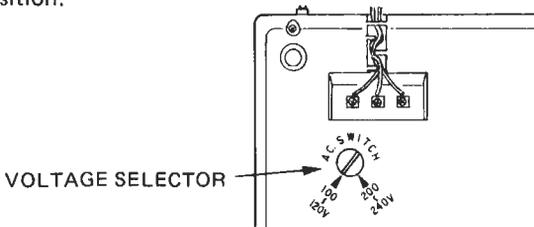


Figure 1

1. Use #20(3 conductors/0.5 mm²) cable. Cut it to the desired length keeping enough slack. The #20 cable is not provided with the unit.
2. Connect the Cable to the terminals on the unit's side snugly as per Figure 2a. Put the cover provided with the unit on the terminals as Figure 2b shows. To remove the cover, insert a screwdriver from the bottom side and pull it out as shown in Figure 2c:

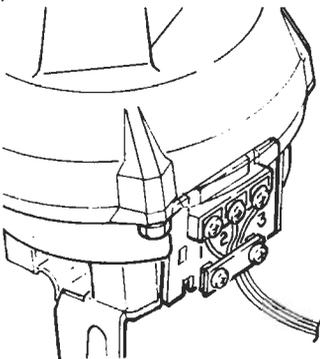


Figure 2-a

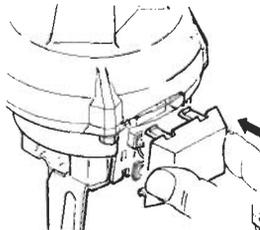


Figure 2-b

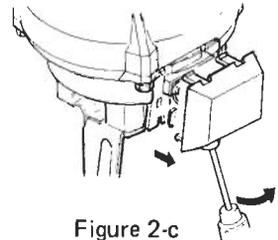
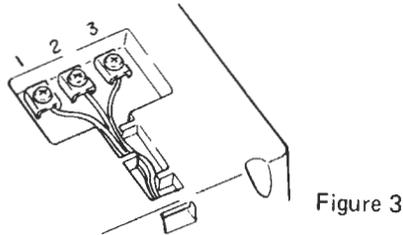


Figure 2-c

3. Connect the other end of the cable to the bottom of the Control unit. Refer to Figure 3 and connect it to the terminal securely.
The cable connected to terminal No. 1 of the Unit must be connected to terminal No. 1 of the Control unit (No. 2 to No. 2; No. 3 to No. 3).
- n.b.** Use adhesive tape or standoff to fasten the cable to antenna pole or tower securely.



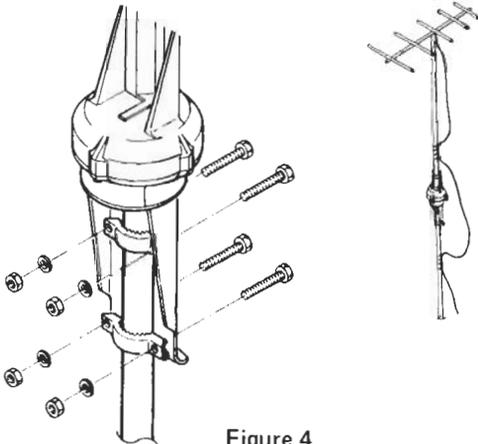
4. After the installation completed plug the AC cord to AC outlet. By turning the control knob to the desired bearing the antenna will orient: on/off switching is done automatically.

INSTALLATION

DRIVE UNIT MOUNTING

■ **To mount onto antenna pole end:**

1. Check that the cable is connected to the Drive unit terminal securely.
2. Set Drive unit bottom to pole end, and then securely fasten the Drive unit to the antenna pole by tightening 2 tooth clamps with M5 x 60 mm Hex bolts, spring washers and nuts. (Figure 4)



ANTENNA MOUNTING

- Vertical load capacity of the ANTENNA ROTATOR is 50 kg. Avoid mounting a heavier antenna.
- 1. Mount Antenna pole to Drive unit (Figure 5)
 - a) Attach 2 tooth clamps to Drive unit with M5 x 20 Hex bolts, M5 washers and nuts, leave a space for Antenna pole installation.
 - b) Temporarily fasten the antenna pole to the Drive unit.
 - c) Drive unit will turn to stop at "S" position when the Control knob of the Control unit set to "S", then properly orient the antenna to S.
 - d) Then, tighten the 2 tooth clamps securely.
- 2. Fasten antenna cable to antenna pole or Tower by using adhesive tape or standoff. Rotator turns 360°: Keep enough slack so that the cable does not hinder the rotator from turning. (Figure 6)

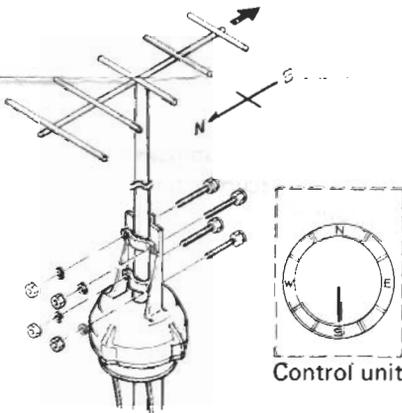


Figure 5

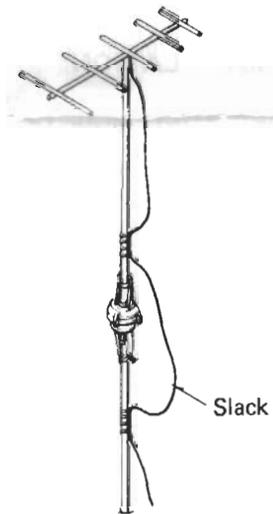


Figure 6

TO SYNCHRONIZE UNITS

Rotate dial knob clockwise to "S". When disc stops, rotate knob counter-clockwise to "S". When disc stops, units are synchronized. Then let antenna face to "S".

Repeat whenever satisfactory reception is not obtained due to the difference of orient between antenna and controller.

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