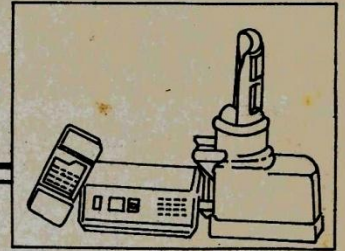


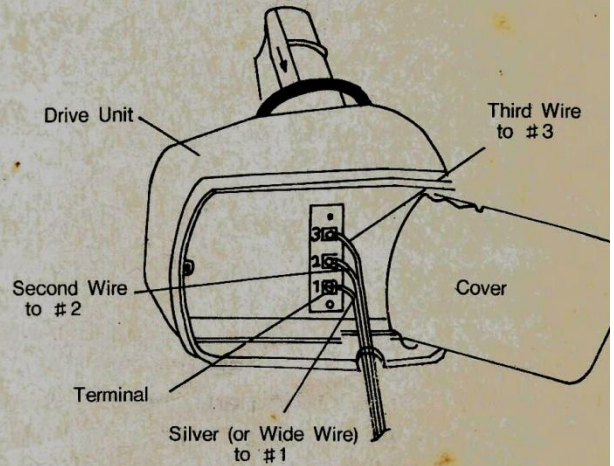
PROGRAMMABLE ANTROTOR WITH INFRARED REMOTE INSTRUCTION MANUAL



OUTDOOR DRIVE UNIT INSTALLATION

STEP 1 - DRIVE UNIT CONNECTION

Up to 280' (84m) of 20AWG 3 conductor cable may be used. For longer runs, use heavier gage wire. To attach cable to the drive unit, snap open the cover using a screw driver and connect the cable as shown. Remove the grommet and insert the cable thru the slot. Press the grommet back into the housing. Separate leads for 1½" (4cm) and strip off the insulation for ½". Find the silver or wide jacketed lead and connect it to Terminal 1. Connect the adjacent lead to Terminal 2, and the next lead to Terminal 3. If 4 wire cable is used, connect both wire 3 and 4 to Terminal 3. Make sure there are no loose strands which can short between terminals. Recheck the wiring order and securely close the cover. To avoid moisture collecting in the cable be sure jacket of cable passes thru the grommet.

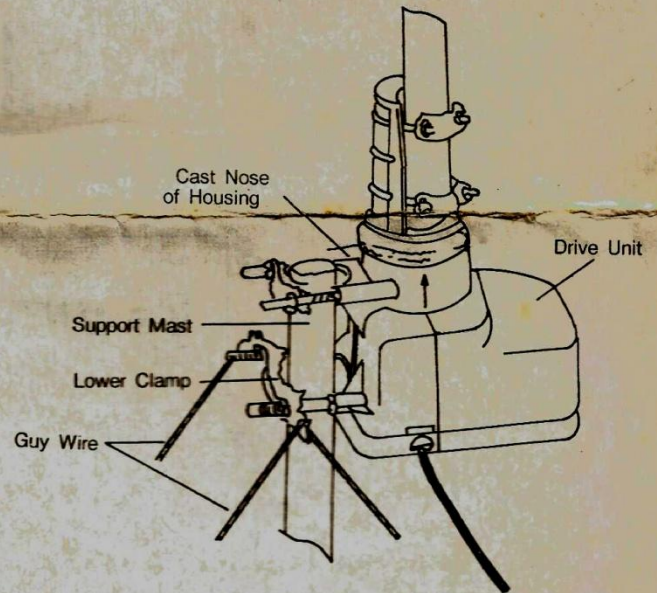


STEP 2 - DRIVE UNIT MOUNTING

If not mounted inside a tower, attach the drive unit to the support mast by loosening the nuts enough to get the clamps over the mast. Lower the drive unit until the cast nose of the drive housing sits on top of the support mast and tighten the nuts. Moderate tightening of the nuts with a 7/16" wrench will cause the teeth to grip the mast securely. Do not overtighten to the point that you deform the mast, since this will reduce its strength.

Mast diameters of 1½" to 2" (3-5cm) may be used. The 1½" (3.8cm) size or larger is recommended for unguyed masts over 6' long, or where large antennas are used.

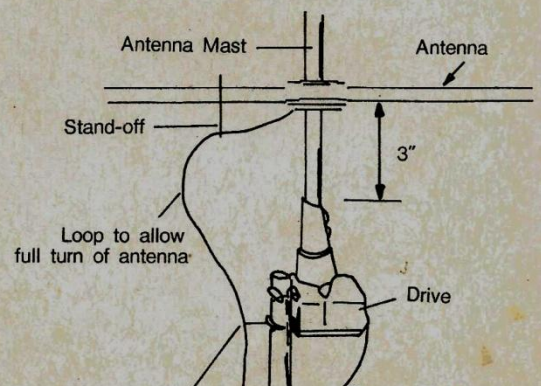
If guy wires are used, fasten two through each of the two holes of the lower clamp.



CAUTION: Select a mounting location where the antenna cannot come in contact with power lines while it is being installed, and where the installation will not fall across power lines if a guy wire should fail.

STEP 3 - ANTENNA/CABLE INSTALLATION

After connecting the antenna lead-in cable to the antenna, fasten it to the antenna mast using stand-off insulators as shown. Provide a generous loop at the drive unit and attach lead-in cable to the support mast with stand-off insulators approximately every four feet. Tape the rotator control cable directly to the support mast.



INDOOR CONTROL UNIT INSTALLATION & PROGRAMMING

STEP 1 — Determine proper rotor cable size and strip about 1/2" of each conductor jacket off. Insert bare conductor into connector plate of rear of control unit as shown in fig.1, Then, release jacket to secure on connector per fig.2.

NOTE: It is important that unit be wired correctly. Damage can result from improper wiring.

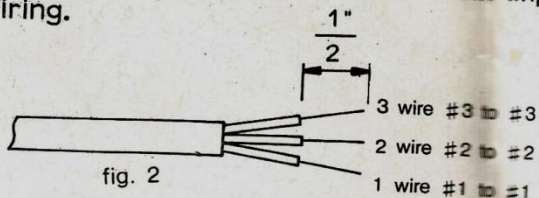


fig. 2

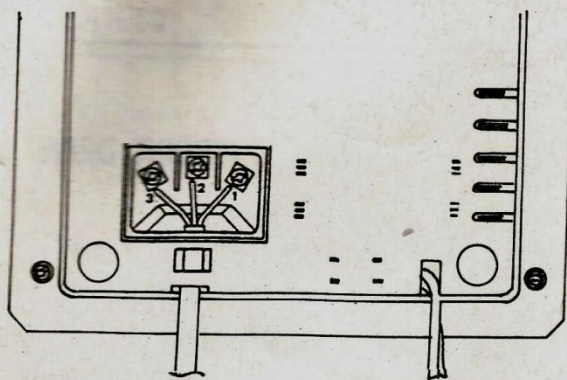
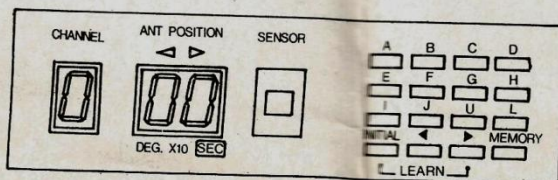


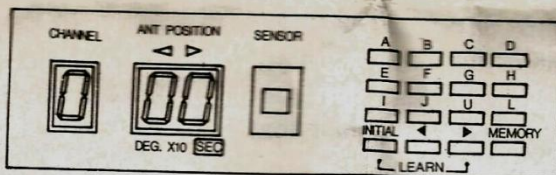
fig. 1

STEP 2 — Plug power cord of the control unit into AC outlet. Then, turn on.

STEP 3 — While power on, the CHANNEL display and the ANT. POSITION display . Please press the "INITIAL" key, control unit and rotator will synchronizly return initial (lamp "◁" will blink about 96 seconds). After lamp "◁" stop blink, this mens that the control unit and rotator have already zeroed; synchronized operation can now begin.

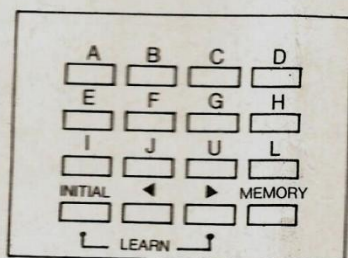


STEP 4 — Press "INITIAL" key, then, ANT POSITION display will shows 36 to 0.



- NOTE: 1. LEARNING must perform before installing the antenna mast, thus, can judge rotator to 0-360° alright. Then, release "INITIAL" key and "▶" key.
2. After strong storm or power failure, the rotator may appear the different position, can use "INITIAL" key to re-synchronize the system if this fails, the antenna of driver motor may be missaligned on the antenna mast. You may either go to the antenna and re-orient it or program the control unit to correspond to the new antenna orientation.

STEP 5 — Tune your TV to the station that you want to receive.



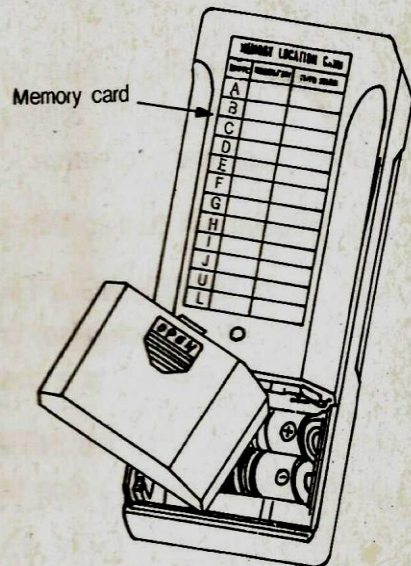
A. While watching the TV to move the antenna back & forth with the "▶" (clock-wise) & "◀" (counterclock-wise) keys until the best picture is obtained.

B. Press the "MEMORY" key, the ANT. POSITION indicator will blink.

C. There are 12 memory location keys (A.B.C.D.E.F.G.H.I.J.U.L.) press the one in which you want to store the station's position. This position is now stored for later use. Indicator will display antenna degree.

D.Repeat the above procedure for each location. Up to 12 station position may be stored. A single programmed location will be suitable for all stations that come from any particular direction.

NOTE: When you press a memory location key (A.B.C.D.E. F.G.H.I.J.U.L.) ANT. POSITION indicator will blink continuously. After storing CHANNEL figure MEMORY will stop or press "MEMORY" key again to stop "MEMORY" instruction. If you press any "MEMORY" key in which you have already stored a position after pressing MEMORY key, the previous position is erased and the current position stored.



A convenient memory location card is found on the back of the remote control. Write all the appropriate memory CHANNEL location letter on this card.

STEP 6 — Install two 1.5 volt battery into infrared remote control. stations that come from any particular direction.

● SET MEMORY

a. Turn off, press "B" (or "D") key unreleased and turn on at same time, then, the lamp "◀▶" will flash.

b. Release "B" (or "D") key, repeat turn on, then, the control unit will perform "INITIAL", display as



in the meantime, all the memory are being cleaned, unit waiting to re-set and learning.

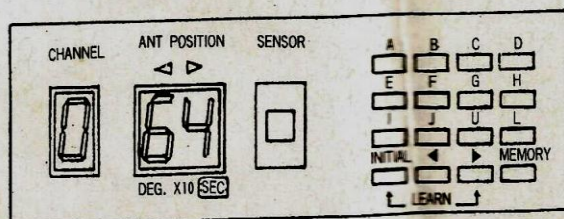
NOTE: Press "B" or "D" key to clean memory

Input voltage 110~120VAC, 60Hz, use "D" key

Input voltage 220~240VAC, 50Hz, use "B" key

● LEARNING

Synchronizly press the "INITIAL" key and "▶" key (press "INITIAL" key first then press "▶" key, otherwise, control unit will make a mistake for clockwise operation, not do "LEARNING"). Thus, rotator will turn to 360° (turn one cycle). Release "INITIAL" and "▶" key at same time, the ANT. POSITION indicator will show rotator cycle time.



The control unit will according to LEARNING figure to manage. Thus, this unit can match up with other brand's rotator must be 3 cord type to get the result of synchronization.

OPERATION

1. Automatic positioning: After your unit had been programmed using either the remote control or the keypad on control unit. Simply press the location key (A.B.C.D.E.F.G.H.I.J.U.L) corresponding to the station press want to watch.

The antenna will turn to that position indicator will display ANTENNA POSITION degree.

2. MANUAL POSOTIONING & FINE TUNING

Press the "▶" (clock-wise) or "◀" (counterclock-wise) keys on the control unit or remote control to rotate the antenna to a position not already stored in memory or for fine tuning.

3. When it is executing the INITIAL function, by mistake to press the INITIAL key. Press again the INITIAL key in order to stop the rotation, and then to continue the action which is intened to execute.
4. In order to interrupt the executing "MEMORY", please press the clockwise ▶ or counterclockwise ◀ key of ANT POSITION which is blinking, the rotator will stop immediately.

SERVICE INFORMATION

1. Unplug this video product from the wall outlet and disconnect with the TV set before taking the service.
2. Read the electric circuit schematic dirgram attached carefully before taking the service.
3. Use only those replacement parts heving electric characteristics as same as shown in the disgram attached.
4. Make leakage-current or resistance measurement to determine that exposed parts are acceptably insulated from the supply circuit before returning this appliance to the customer.