

Antenna Controller Quick Start Sheet

EC8 Model

12/26/96

- 1) Consult chapter 8 of the manual to install the AIU and control unit. Be sure that the limit switches are correctly installed and operating.
- 2) Turn on the control unit and wait until the screen reads:
**POSITION:
LONGITUDE:---**
- 3) Press <MNU> until the screen reads **CONFIG MENU**, and then press <8>. Follow the on-screen instructions to set the following antenna information: **Polar mount, Simultaneous motor control, and Single speed operation.**
- 4) Press <MNU> until the screen reads **CONFIG MENU**, and then press <2>. Follow the on-screen instructions to enter your site coordinates. (Longitude and latitude at the antenna site).
- 5) Press <MNU> until the screen reads **CONFIG MENU**, and then press <3>. Follow the on-screen instructions to enter the CPR, jog, and timeout values for the encoders. The **hour angle CPR** value is **20000**. For dual axis antennas, the **declination CPR** value (if applicable) is **20000**. For antennas with motorized declination feedhorns, the **declination CPR** value is **500**. The **hour angle jog** value is **1**. The **declination jog** value is **3**. The **polarization jog** value is **5**. The **timeout** value for all three axes is **4**.
- 6) Press <MNU> until the screen reads **TEST MENU**, and then press <3>. Verify that the **CPR, jog, and timeout** values are correct for the encoders that are installed, and that it reads **NOT INSTALLED** for the encoders that are not installed. **Polarization** should simply read **IS INSTALLED** or **NOT INSTALLED**.
- 7) Press <MNU> until the screen reads **TEST MENU**, and then press <1>. Press the direction keys (<EAST>, <WEST>, <CW>, <CCW>, <UP>, and <DOWN>) to move the antenna in every axis that you have an encoder installed on. The **H** counts should change if you move east or west. The **D** counts should change if you move up or down. The **P** counts should change if you move CW or CCW. Press <ENT> when you are done.
- 8) Press <MNU> until the screen reads **CONFIG MENU** and then press <5>. Follow the on-screen instructions to set soft limits on each axis you have an encoder installed on. Refer to section 14.7 of the manual for a more detailed description of soft limits.
- 9) Press <MNU> until the screen reads **ANTENNA MENU** and then press <1>. Use the direction keys to aim the antenna at a satellite. Choose a satellite that will be easy to locate and identify in the future. This will be your reference satellite. Press <ENT> when you are done.
- 10) Press <MNU> until the screen reads **CONFIG MENU**, and then press <4>. At the prompt **FIND REFERENCE SATELLITE;** <ENT> use the direction keys to peak up the signal. It is important to peak up the signal as accurately as possible since all your calibrated positions will be stored relative to the reference satellite. Press <ENT> when you are at the signal peak. Follow the on-screen instructions and enter current longitude, transponder, and polarization. The screen will read **CONFIG MENU** when you are done.
- 11) Press <MNU> until the screen reads **ANTENNA MENU** and then press <2>. Follow the on-screen instructions to calibrate your reference satellite as a position.