

Control Cable Installation

Before installing the antenna and rotator, prepare the rotator control cable and test rotator operation thoroughly on the ground as described here. We recommend that after this you also check the alignment of the controller, as described in the following section.

Control Cable Preparation

Your control cable should have five stranded conductors of at least 0.5mm (#22 gauge) if the cable is shorter than 40m (125'), or 0.75mm (#18 gauge) if longer.

1. Disassemble the two supplied cable plugs: slide the rubber boot off the round plug, remove the setscrew in the shell with a small screwdriver, and then unscrew the shell from the plug. On the rectangular plug, just remove the two small screws in the shell. Save the setscrew from the round plug and the two small screws in a safe place until step 9, so you don't lose them.

2. Slide the rubber boot and round shell over the rotator end of the cable, far enough to allow dressing the end of the cable. Slide the rectangular shell over the other (controller) end of the cable.

3. Using special care to avoid nicking the insulation of the individual wires, strip back 15mm of the outer jacket of the cable from both ends, and then strip 5mm of insulation from each wire.

4. Solder the wires to the round plug pins, noting the color of the wire and number of each pin for reference later. Pin 6 (center pin) is not used. Confirm all solder

joints are good and clean, as this part of the cable will be hard to access after installation. Don't slide the shell on yet.

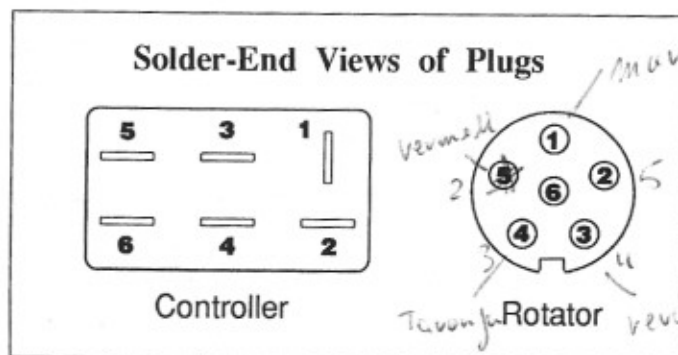
5. Referring to your notes of the wire color at each pin on the round (rotator) plug, connect the wires to the pins of the rectangular (controller) plug so that the wire from each pin on the rotator plug connects to the pin with the same number on the controller, i.e., 1 to 1, 2 to 2, etc. Pin 6 is not used. Don't slide the shell on yet.

6. Temporarily connect the round plug to the rotator, and the rectangular plug to the jack on the controller. Make sure that the **POWER** switch is in the off (out) position, and then connect the cord to the AC power outlet.

7. Turn on the **POWER** switch. The pilot lamps should light, and the direction indicator move to the position of the rotator and stop.

8. Press the **LEFT** side of the seesaw switch, and confirm that the rotator (when viewed from the top) and indicator needle turn counterclockwise together. Then press the **RIGHT** side of the seesaw switch and confirm that the rotator and indicator turn clockwise. If rotation does not occur as described, recheck your cable connections.

9. If the rotator and indicator work as described, replace the plug shells, setscrew, two small screws and rubber boot removed in step 1.



485 are motor winding

