DenTron 160 - 10 Super Tuner and 3 kw Models

The DenTron 160 - 10 AT Antenna Tuner (Transmatch), will couple a 160 - 10 meter Transmitter to almost any type antenna system.

The 160 - 10 AT, when properly adjusted, will tune out load reactance, and transform the load impedance to 50 - 70 ohms.

The 160 - 10 AT also includes a highly effecient balun, so antennas fed with open - wire line may be properly tuned to desired frequency.

The 160 - 10 AT may be used with coax-fed antennas as well as end-fed single wire types.

INSTALLATION

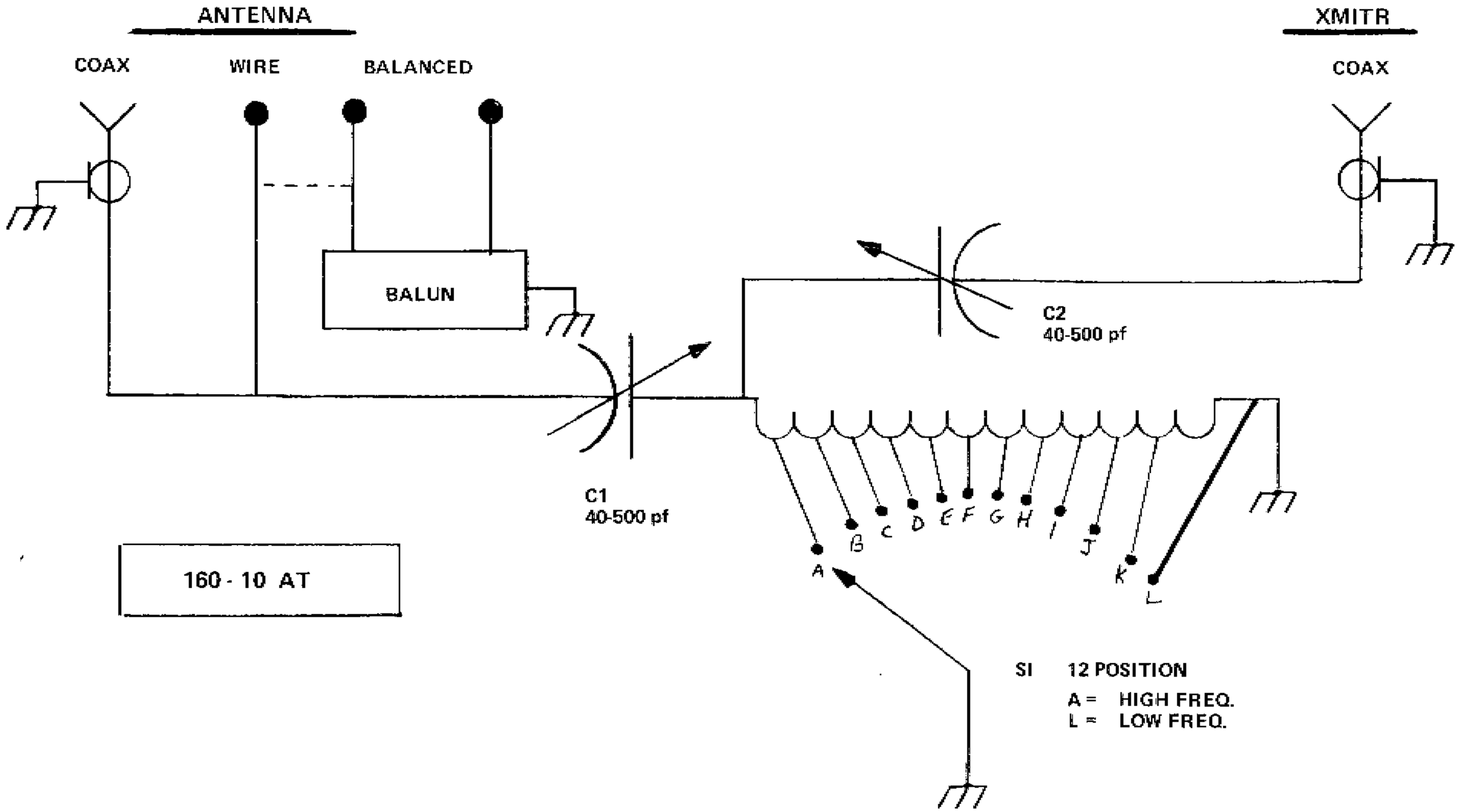
1. Hook ground wire on back of tuner.
   a. a good ground is very important when using end-fed wire antennas.

2. From the rear panel marked "transmitter", connect a coax cable to an SWR bridge that is connected to the station transceiver.

3. ANTENNA CONNECTIONS:
   a. Coax fed antennas to coax feedline.
   b. End-fed wire to SINGLE WIRE TERMINAL.
   c. OPEN WIRE FEED to BALANCED FEED LINE TERMINALS and also JUMPER WIRE to SINGLE WIRE TERMINAL (dotted line).

OPERATION

1. Set "Transmitter Matching" and "Antenna Matching" Controls to "5".
2. Listen on receiver for maximum band noise while turning inductance control for maximum noise.
   (A is highest frequency, L is lowest frequency)
3. Feed enough power through the system to get a reading on the SWR bridge in the reflected position.
4. Rotate Inductance Control for a drop in SWR reflected reading.
5. Adjust "Transmitter Matching" and "Antenna Matching" control for minimum SWR.
6. Now apply full power and touch up "Transmitter Matching" control if necessary.



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BASIC CONTROL SETTINGS
(into a 50 ohm resistive load)

BAND & FREQ.	TRANS.	INDUCTANCE	ANT.
160- 1.830	1	L	2.5
75- 3.8	3	E	4
40- 7.2	5.5	C	6
20- 14.2	4	B	1
15- 21.3	3.5	B	3
10- 28.6	8.25	A	8