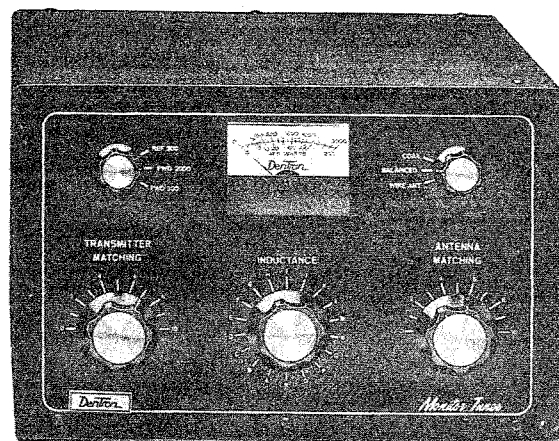


3 KW SuperTuner Performance WITH built-in Wattmeter and front-panel antenna switch

**the
monitor
tuner**

- Built-in Wattmeter
- Continuous tuning 1.7-30 mc
- Antenna inputs: Front Panel Switchable
 - a. coax unbalanced - SO-239
 - b. random wire - ceramic feed thru
 - c. balanced line - ceramic feed thru, tuned feeders 75-660 ohm
- Tapped inductor #12 guage wire
- #8 guage HF Coil
- Black wrinkle finish
- Handles 3KW PEP
- Transmatch circuit:
 - a. tune out load reactance
 - b. transforms load impedance to 50-75 ohms
- Built-in heavy-duty Balun; 3½" diam. x 3" H. 3 core
- Harmonic Attenuation
- Ceramic Rotary Switch 18 position, 12 amp capacity
- Capacitor spacing 6000 volt
- 13" W x 8½" H. x 15" D. 24 lbs.

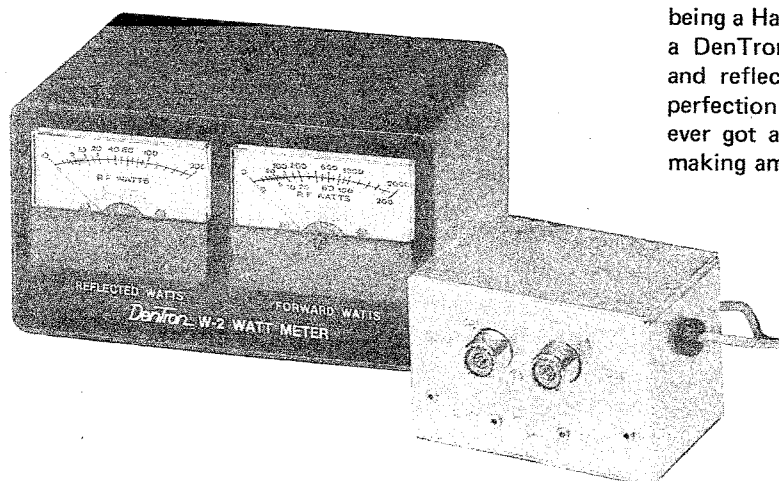


160-10 Monitor Tuner

You can't imagine the ease of operation when you are working a tuner with a built-in wattmeter plus front panel switchable antenna inputs. No more bouncing back and forth between pieces of equipment, everything is right there in front of you. But that's not all that's in front of you. Behind that front panel are the same guts and stamina that are engineered into our 3KW SuperTuner model. The Monitor Tuner gives you the ability to match everything from 10-160 meters whether you have balanced line, coax cable, random or long wire. If you want more than your present tuner can give, upgrade! Order a DenTron Monitor Tuner from your dealer today.

Now you can read both forward and reflected watts at the same time

**the
watt
meter**



Constant switching and guesswork tends to take the fun out of being a Ham. Don't cut down on the fun of Ham Radio, get yourself a DenTron dual in-line wattmeter. By monitoring both forward and reflected wattage simultaneously, you'll add a dimension of perfection to your station that will make you wonder how you ever got along without it. DenTron Radio Products, dedicated to making amateur radio more fun.

- Forward watt scale - 2000 or 200
- Reflected watt scale - 200 watts
- Low insertion loss
- Frequency range: 1.7-30 MHz
- Meter accuracy $\pm 5\%$
- Sensor Box may be extended 4 ft.
- Has 2 SO-239 Connectors
- Sensor Box - 4" W. x 2½" H. x 2½" D.
- 7" W. x 3½" H. x 6" D.
- Weight 5 lbs.

FEB 18 1977

The Dentron 160-10 MAT Antenna Tuner (Transmatch), will couple a 160-10 meter transmitter to almost any type antenna system.

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

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

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

The Monitor Tuner features a built-in Wattmeter.

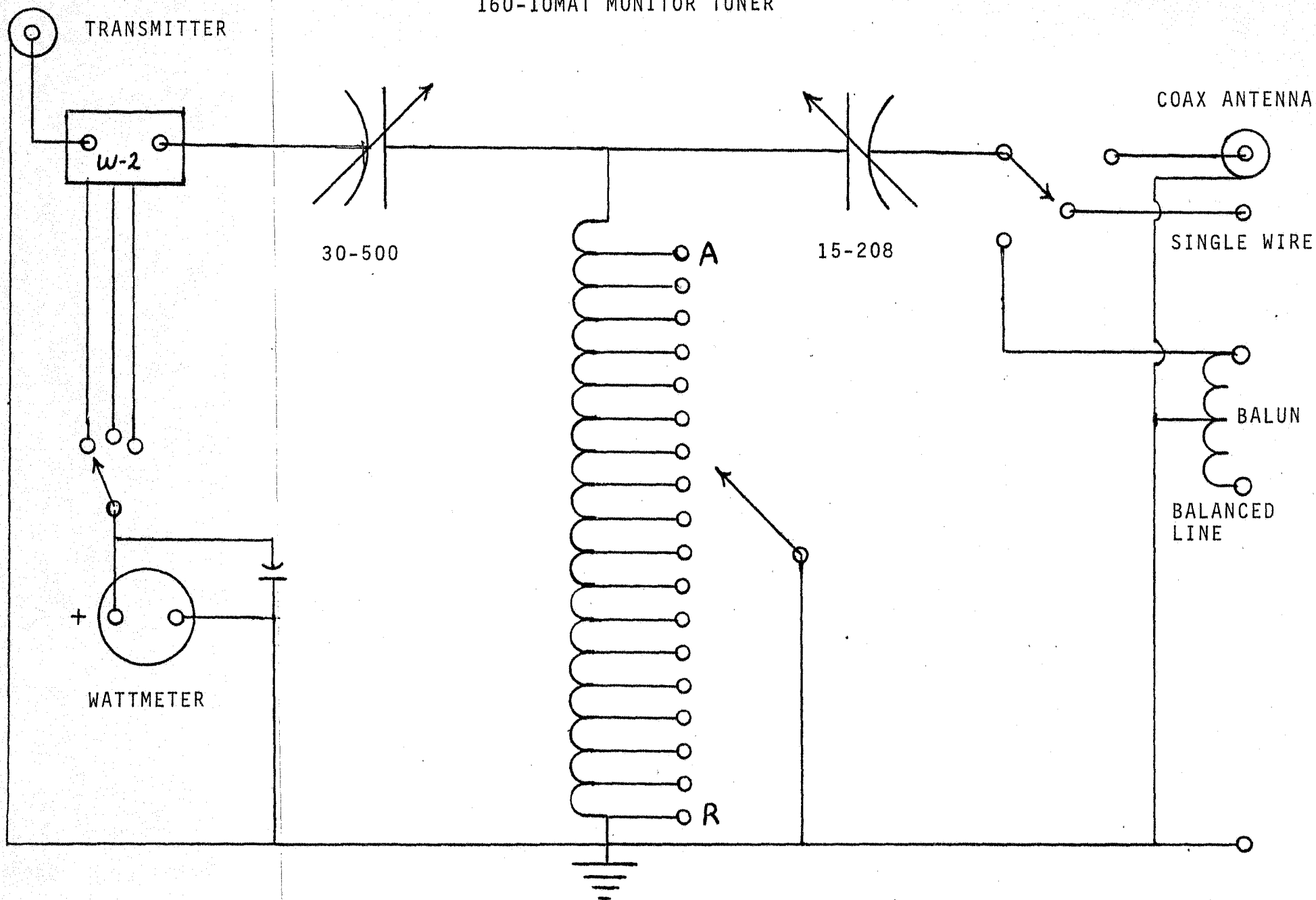
INSTALLATION

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 the station transceiver or amplifier.
3. ANTENNA CONNECTIONS:
 - a. Coax fed antennas to coax feedline.
 - b. End-fed wire to SINGLE WIRE TERMINAL.
 - c. OPEN WIRE FED TO BALANCED FEED LINE TERMINALS.

OPERATION

1. Set Antenna Selector to proper Antenna in use.
2. Set "Transmitter Matching" and "Antenna Matching" Controls to "5".
3. Listen on receiver for maximum band noise while turning induction control for maximum noise.
(A is highest frequency, L is lowest Frequency)
4. Feed enough power through the system to get a reading on the wattmeter in the reflected position.
5. Rotate Inductance Control for a drop in reflected power reading.
6. Adjust "Transmitter Matching" and "Antenna Matching" control for minimum on Reflected 200 position.
7. Now apply full power and touch up "Transmitter Matching" control if necessary.

160-10MAT MONITOR TUNER

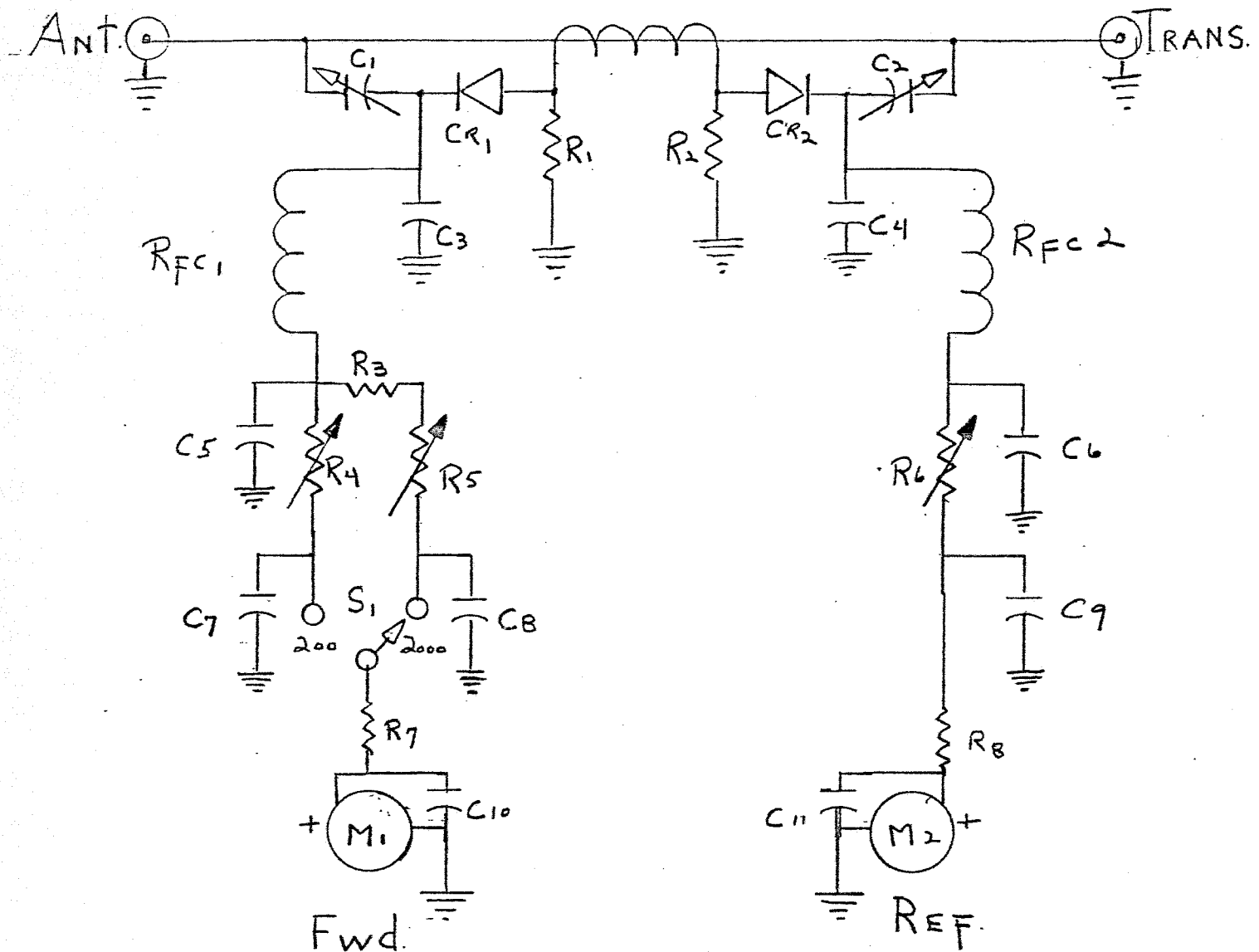


Dentron

W-2

WATTMETER

T₁



PARTS

- C1 & C2- 1-8 PF.
- C3 & C4- 220 PF.
- C5 - C11- .01 Disc.
- Cr1 - Cr2- 1N295 Diodes
- R1 & R2- 430HM ½ Watt
- R3- 50K ½ Watt
- R4 & R5 & R6- 100K Pots
- R7 & R8- 15K ½ Watt
- T1- Toroid
- M1 & M2- 200ua Meters
- RFC1 & RFC2- 390 uh Chokes

MONITOR TUNER

BASIC CONTROL SETTINGS
(into a 50 ohm resistive load)

BAND & FREQ.	TRANS.	INDUCTANCE	ANT.
160- 1.830	6	P	0
75- 3.8	7 $\frac{1}{4}$	I	2 $\frac{1}{4}$
40- 7.2	5	F	0
20- 14.2	7 $\frac{1}{2}$	B	5
15- 21.3	9	A	7 $\frac{1}{2}$
10- 28.6	9 $\frac{1}{2}$	A	1 $\frac{1}{2}$

STANDARD WARRANTY

DenTron Radio Co. Inc. warrants each new product manufactured by it to be free from defective material and workmanship, and agrees to remedy any such defect or to furnish a new part in exchange for any part of any unit of its manufacture which under normal installation, use, and service discloses such defect, provided the unit is delivered by the owner to us or to our authorized dealer from whom purchased, intact, for our examination. All transportation charges are to be prepaid to our factory, within ninety days from the date of sale to original purchaser, and provided that such examination discloses in our judgment that it is thus defective. Should a malfunction be suspected, write in detail to our Service Department for suggestions concerning the operation, repair or return of your unit if it should prove necessary. Do Not Return any DenTron Products to the Factory without Prior Authorization.

This warranty does not extend to any of our products which have been subjected to misuse, neglect, accident, incorrect wiring not our own, improper installation, or to use in violation of instructions furnished by us, nor does it extend to units which have been repaired or altered outside our factory, nor in cases where the serial number thereof has been removed, defaced or changed, nor to units used with accessories not manufactured or recommended by us.

Any part of a unit approved for remedy or exchange hereunder will be remedied or exchanged by the authorized dealer without charge to the owner.

This warranty is in lieu of all other warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with the sale of our products.

The DenTron Radio Co. Inc. reserves the right to make any improvements to its products which it may deem desirable without obligating itself to install such improvements in its previously manufactured products.

DenTron
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