

**LA-1000-NT  
1200 WATT  
NO-TUNE  
AMPLIFIER**

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DATE PURCHASED 7.9.2001

# AMP SUPPLY CO.

## LA-1000-NT

### GENERAL DESCRIPTION

The LA-1000-NT is a self-contained, high frequency linear power amplifier capable of operation at 1200 watts PEP sideband and up to 1000 watts CW input power. The bandswitch positions provide NO-TUNE-UP operation on 160 through 10 meter amateur bands. The LA-1000-NT is capable of high speed break-in CW (QSK) when used with a QSK transceiver. The LA-1000-NT also incorporates a feature permitting optimization of efficiency in either the CW or SSB subband on 160 and 80 meters. The LA-1000-NT can be manually tuned internally to cover just about any portion of the spectrum from 1.8-30 MHz.

### SPECIFICATIONS

**FREQUENCY COVERAGE:** Amateur bands 1.8-1.9, 3.5-4.0, 7.0-7.3, 14.0-14.350, 21.0-21.450, 28.0-29.5 MHz using factory-preset circuitry. The owner may adjust these settings to optimum efficiency in any of these ranges.

**SUBBAND SELECTION:** Panel switch selects optimum no-tune-up arrangement for either CW or SSB operation on 160 and 80 meters.

**POWER INPUT:** Up to 1200 watts PEP/SSB, and up to 1000 watts CW.

**TYPICAL EFFICIENCY:** 60-72% depending on load, frequency, drive level, etc.

**DRIVE POWER:** 100-140 watts PEP for rated input.

**DISTORTION:** Third order *IM* more than 31 dB below PEP output.

**HARMONICS:** Substantially better than FCC requirements; typically -45 dB or better.

**CW BREAK-IN:** High speed QSK capability when used with a suitable QSK transceiver.

**TUBE COMPLIMENT:** Four 6MJ6 heavy duty pentodes, with drive applied to the first grid and cathode----termed *super drive*.

**COOLING:** Full-cabinet ducted forced air. Air is drawn in the bottom front and exhausted out the rear back.

**PRIMARY AC VOLTAGE:** 220-240 volt AC @ 10A max. or 110-122 volt AC @ 15A max. , 50-60 Hz, single phase. Maybe changed in the field.

**SIZE:** W 11", H 4.75", D 9.75"

**WEIGHT:** 26 LBS

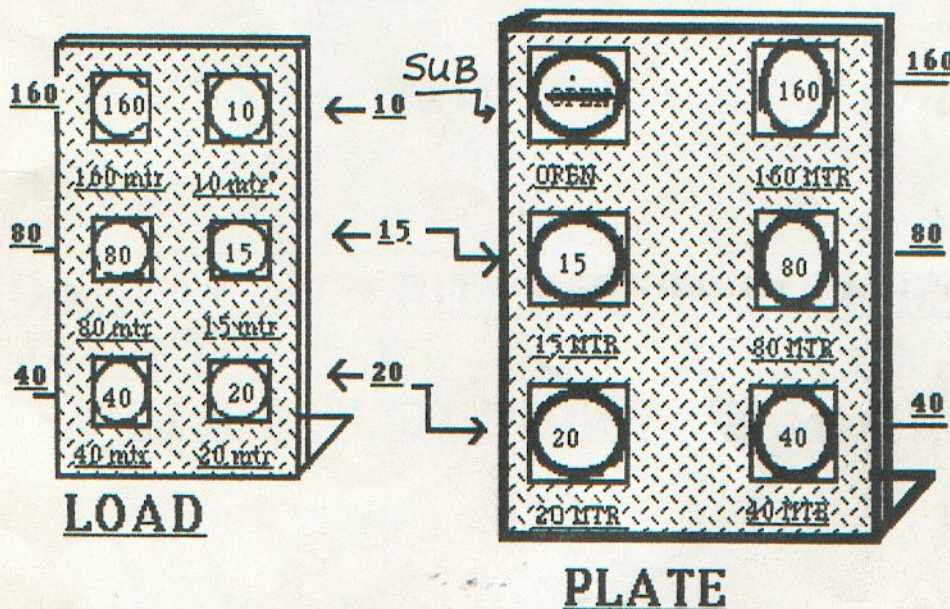
**FINISH:** Dark gray front and light gray cover made of solid aluminum.

**\*\*\*\*\* IMPORTANT \*\*\*\*\*** OUTPUT IMPEDANCE: FACTORY SET FOR 50 OHM RESISTIVE LOAD AT 1.1 - 1 SWR, MAYBE ADJUSTED INTERNALLY FOR AN SWR UP TO 1.5:1.

**INSTALLATION: FOLLOW THE LA-1000A MANUAL**

The LA-1000-NT is identical to the LA-1000A in all aspects except the tuning procedure.

**PRESET TUNING CONTROL POSITIONS**



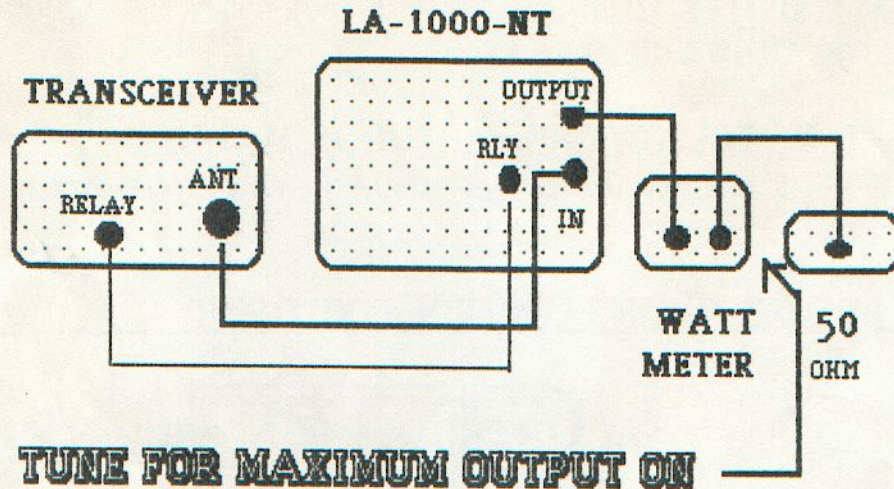
**TUNING INSTRUCTIONS: ONLY IF THE SWR IS OVER 1.3:1 ON THE STATION ANTENNA SYSTEM..USE CAUTION HIGH VOLTAGE!!!**

The amplifier must be connected to a 50 ohm load or to the proper antenna with an SWR ratio of less than 1.3:1. A wattmeter must be in the output line after the amplifier before the antenna load.

Turn the LA-1000-NT power on with the stand-by switch the the STY position. Select the desired frequency on the band switch. Make certain that the transceiver power output control is set to zero. Next place the LA-1000-NT in the OPT position. Place the transceiver in the appropriate

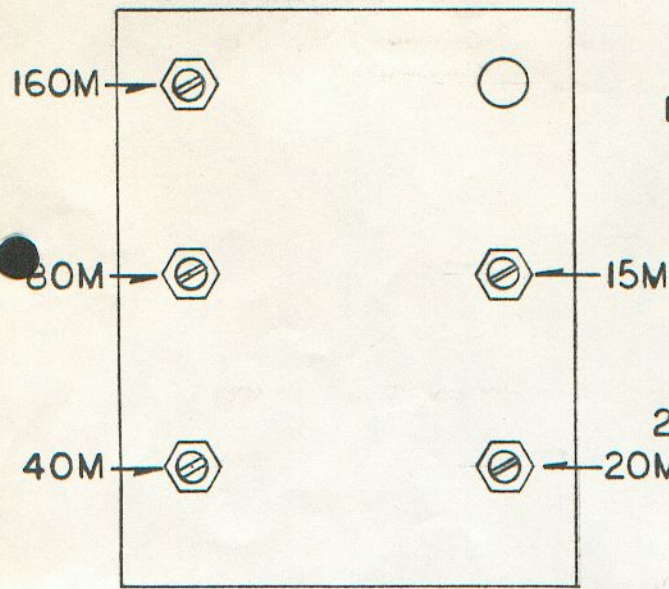
mode to deliver a steady (adjustable) carrier, usually called **CW** or **Tune**. Slowly increase the transceiver carrier power output until the plate current on the LA-1000-NT reads **350 ma.** Carefully adjust the **LOAD** for maximum output on the wattmeter. Wait 10 seconds for cool down of the tubes. Carefully adjust the **PLATE** for maximum output. Wait 10 seconds for cool down of the tubes. Now apply full carrier and adjust both **LOAD** and **PLATE** for maximum output on the wattmeter. **IMPORTANT..... ONLY LEAVE THE LA-1000-NT IN THE TUNE POSITION FOR 10 SECONDS AT A TIME.....**

**-----DANGER HIGH VOLTAGE-----**

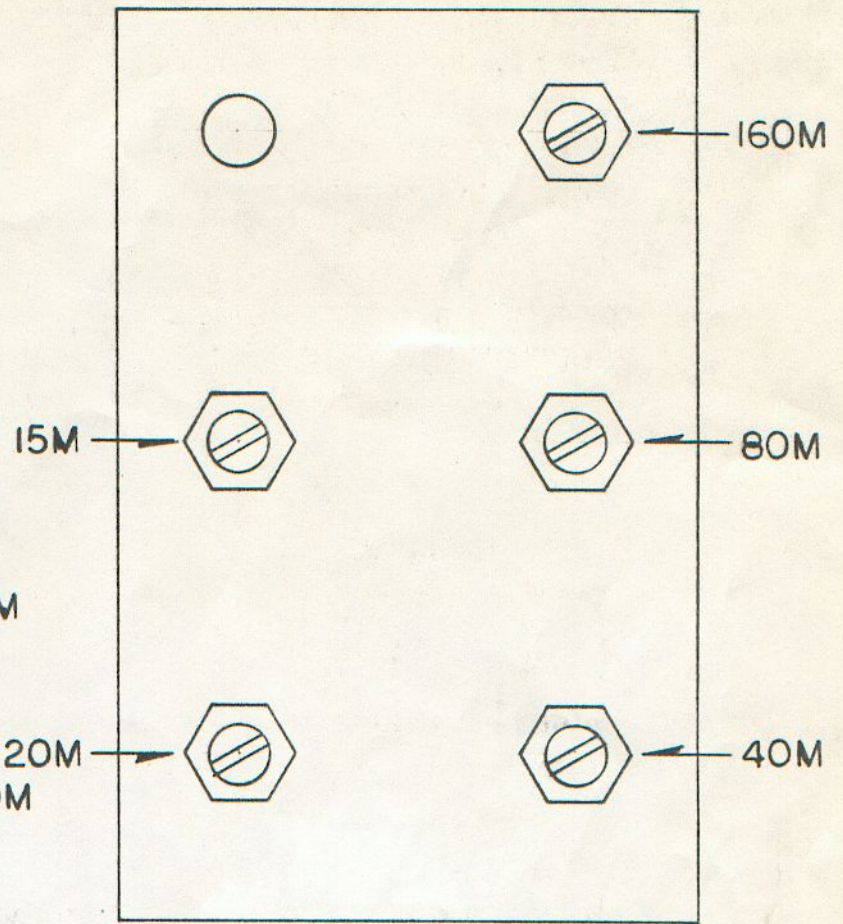


### NOTES

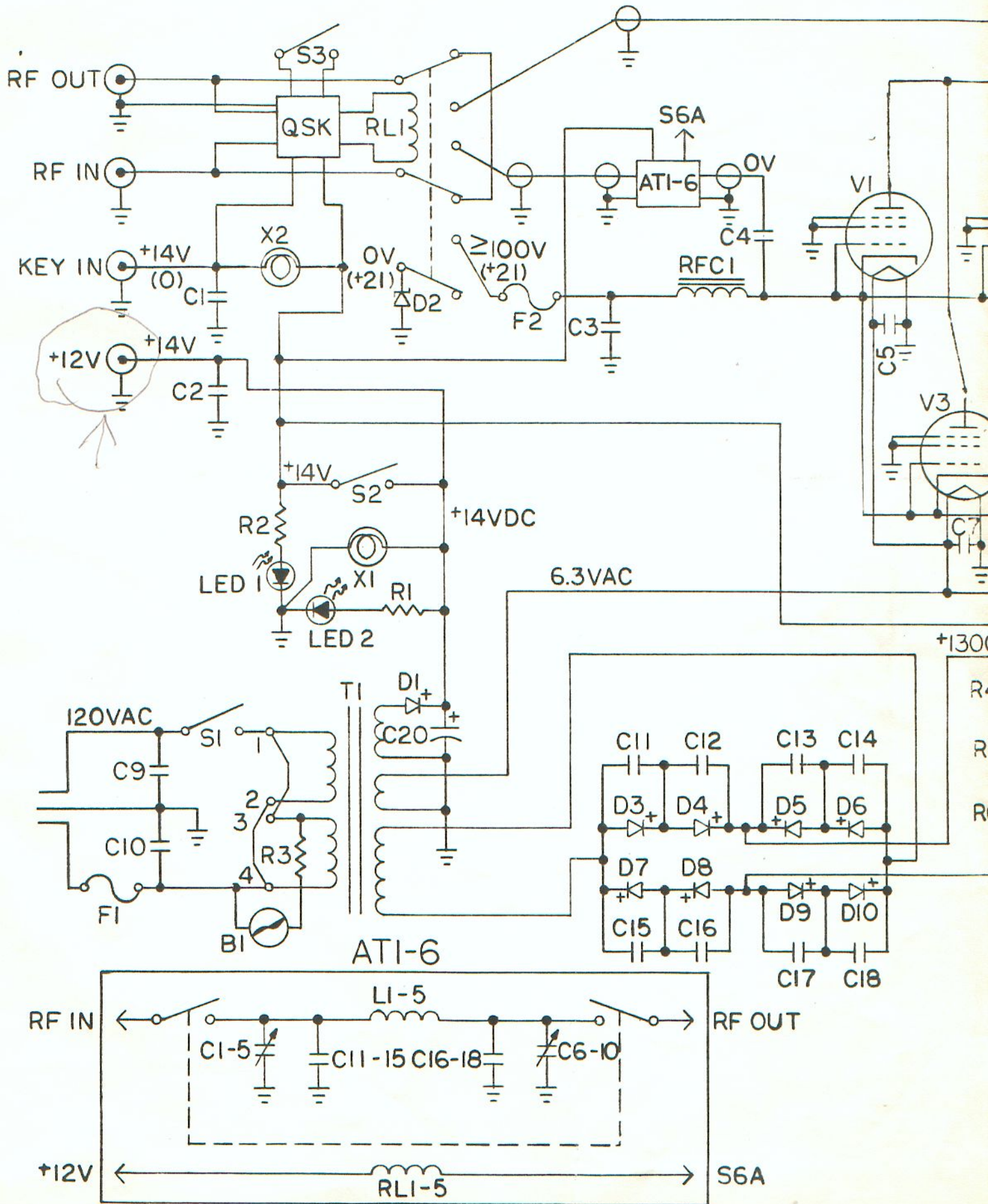
**PLEASE REMEMBER : THE SWR RATIO ON THE ANTENNA IN USE WITH THE LA-1000-NT MUST NOT EXCEED 1.3:1 !!!!**

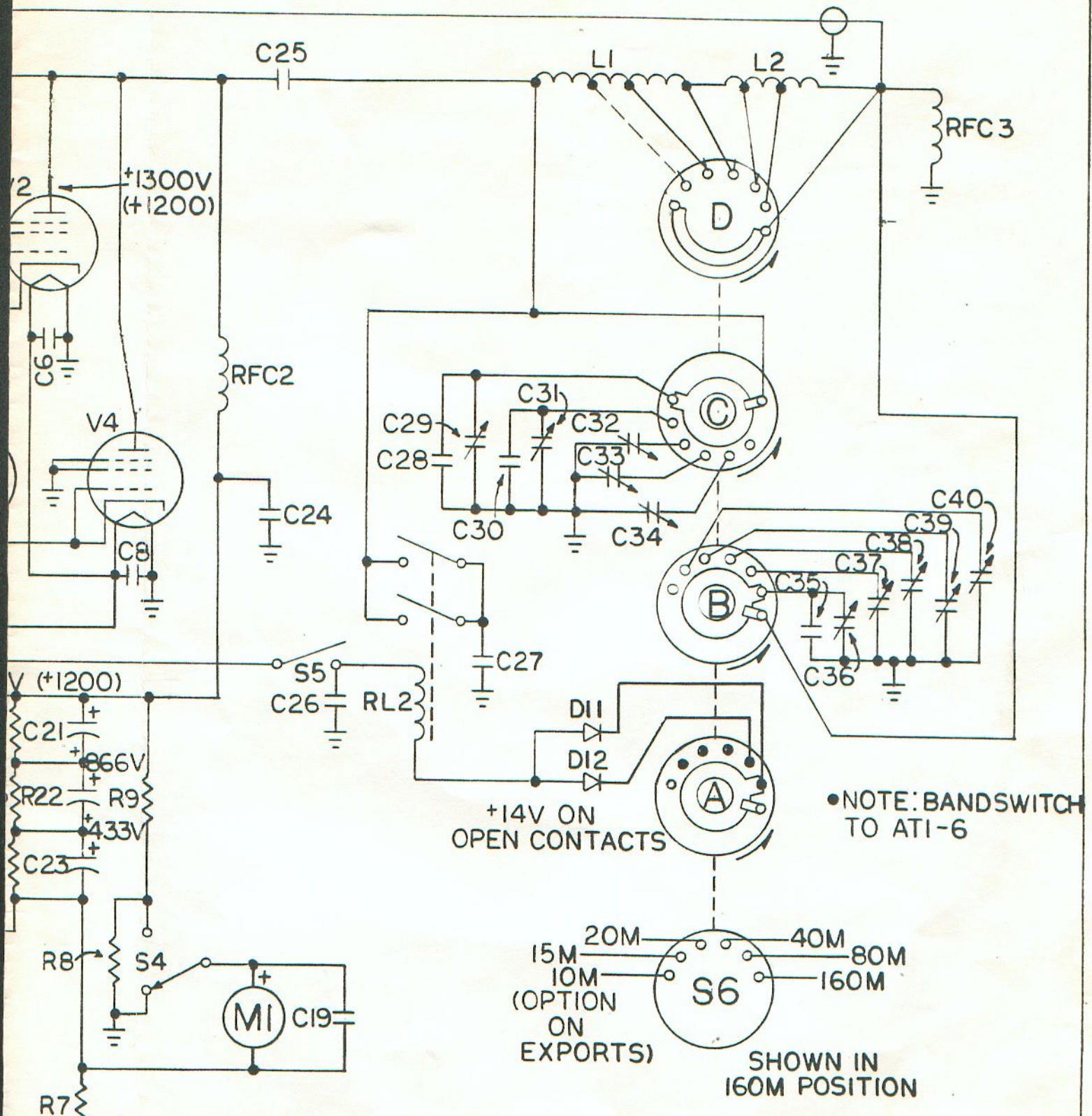


LOAD



PLATE





•NOTE: BANDSWITCH TO ATI-6

+14V ON OPEN CONTACTS

15M 20M 40M 80M  
 10M 160M  
 (OPTION ON EXPORTS)  
 S6  
 SHOWN IN 160M POSITION

ALL VOLTAGES MEASURED TO CHASSIS  
 NOT KEYED IN OPERATING POSITION  
 EXCEPT (XX) MEASURED W/ TRANSMIT  
 RELAY ENERGIZED NO DRIVE APPLIED.

AMP SUPPLY CO.	
LA-1000NT SCHEM.	CND APP.
24, FEB. '84	NTU-003