

Operating and Technical Manual for

Henry SS750HF and SS1200HF



RF Linear Solid State Power Amplifier - 1.8 to 30 MHz

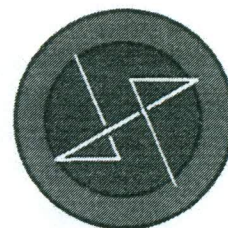
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Henry SS750HF and SS1200HF Solid State Power Amplifier Operating Instructions

Connect the factory supplied red power lead to the positive terminal of your battery or power supply. Connect the black lead to ground, or the negative terminal of your power supply. The factory supplies 04 gauge wire because of the high current draw during transmit. It is wise to keep your power leads as short as possible to prevent voltage drop in the line. For mobile operation, you can install a second battery at the amplifier to help with current handling. These amplifiers can draw up to 100 amps at full output on some bands.

Connect the transceiver input to the input of the amplifier using 50 ohm coax. Connect the output of the amplifier to a properly matched 50 ohm antenna, or dummy load, using RG8 type coax. Connect the PTT1 jack to your transceiver. The amplifier requires a shorting relay contact to ground during transmit. The current drain is about 300 ma. If your transceiver can not switch that large a current, you will have to use an optional relay box. The PTT2 jack is provided for sequenced switching of a separate high power amplifier.

Turn the amplifier on with the front panel rocker switch marked ON/OFF. Be certain that the REMOTE/LOCAL switch is in the LOCAL position. Switch on the band that you wish to operate. ONLY SELECT ONE BAND AT A TIME. For general coverage, non-amateur operation, choose the appropriate band as described below. The TEMP light will flash on for a short period indicating the amplifier is ready.

1.8 to 2.5 MHz	Use the 160 Band switch	10 to 20 MHz	Use the 20 Band switch
2.5 to 5 MHz	Use the 80 Band switch	20 to 30 MHz	Use the 10/15 Band switch
5 to 10 MHz	Use the 40 Band switch		

For remote operation, push the LOCAL/REMOTE switch to REMOTE. Do not activate any of the band switches. Leave the power switch ON, and control all the functions from the SS-RC remote head.

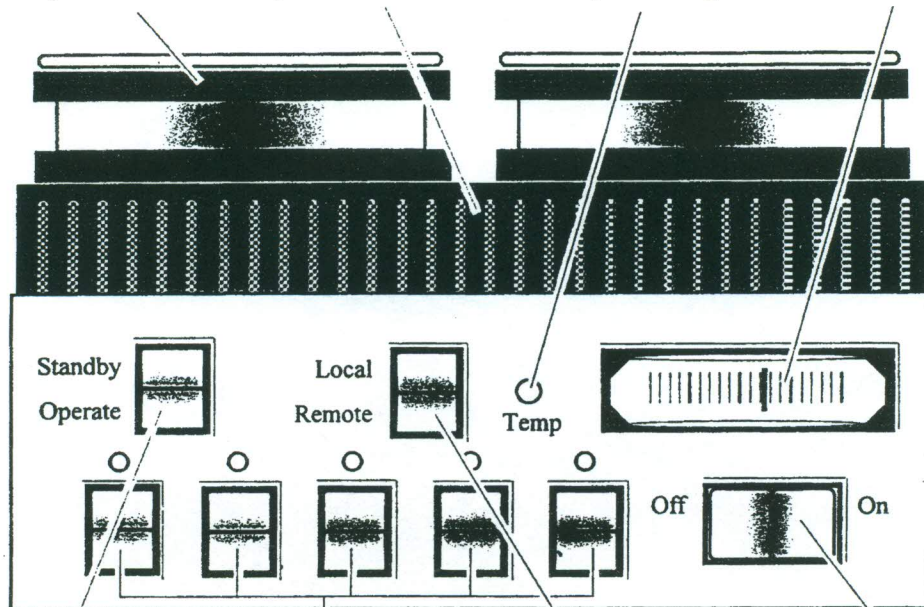
The STANDBY/OPERATE switch is used to disable the amplifier so that it will not switch into the transmit mode. The amplifier has an over-temperature protection circuit, if the sensor switches on, the TEMP light will come on and the amplifier will be disabled. The cooling fans are also controlled by a thermostat, and will come on when the heat sink warms up.

Specifications

Frequency Range:	1.6 to 30 MHz	RF Input Power:	100 watts nominal
Output Power:	1000 watts minimum – SS1200	Dimensions (mobile):	9" W x 5" H x 18" D – SS1200
	750 watts minimum – SS750		9" W x 5" H x 15" D – SS750
Mode:	SSB, FM, AM or RTTY	Dimensions (base):	22" W x 30" H x 22" D
Input/Output Impedance:	50 ohms unbalanced	RF Connectors:	Choice of UHF(f) or N(f)
Harmonic Attenuation:	60 dB down nominal	Power Source (mobile):	26.0 VDC, 100 amps
Filter Switching (mobile):	Manual switch selection	Power Source (base):	110 or 220 vac, 30/15 amps
Filter Switching (base):	Auto select optional	Shipping Weight (mobile):	35 lbs
Power Output Selection:	Full output or 3 dB down	Shipping Weight (base):	200 lbs
Warranty:	1 year parts and labor	Amplifier Cooling:	Forced air built-in
Remote Control:	Optional	Metering:	DC amps, Optional RF
	Made in the U.S.A.		power meters

SS750HF and SS1200HF Front and Back Panel Controls

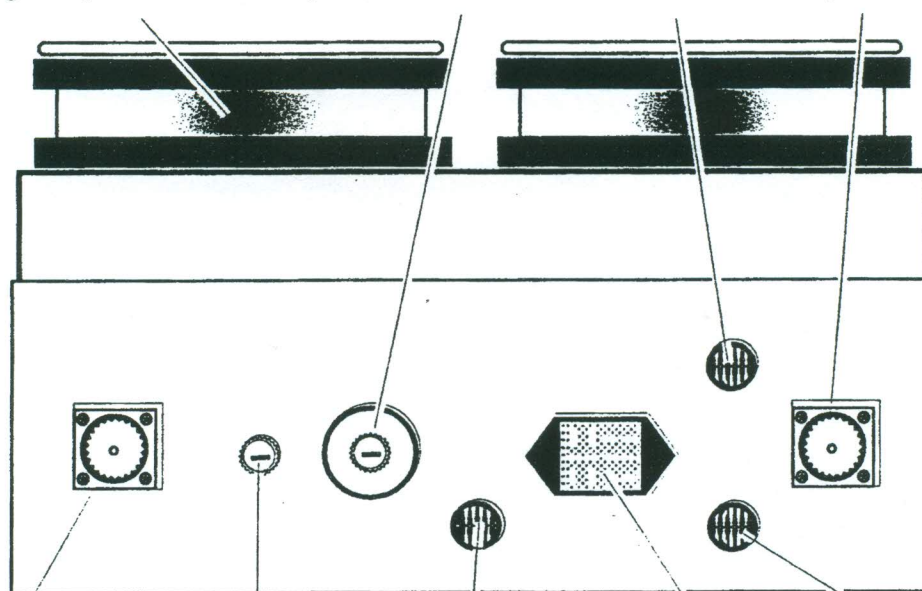
Cooling Fans (thermostat controlled) Air Exhaust Over Temperature Light Current Meter



Front

Standby/Operate Switch Band Switches Local/Remote Switch On/Off Circuit Breaker

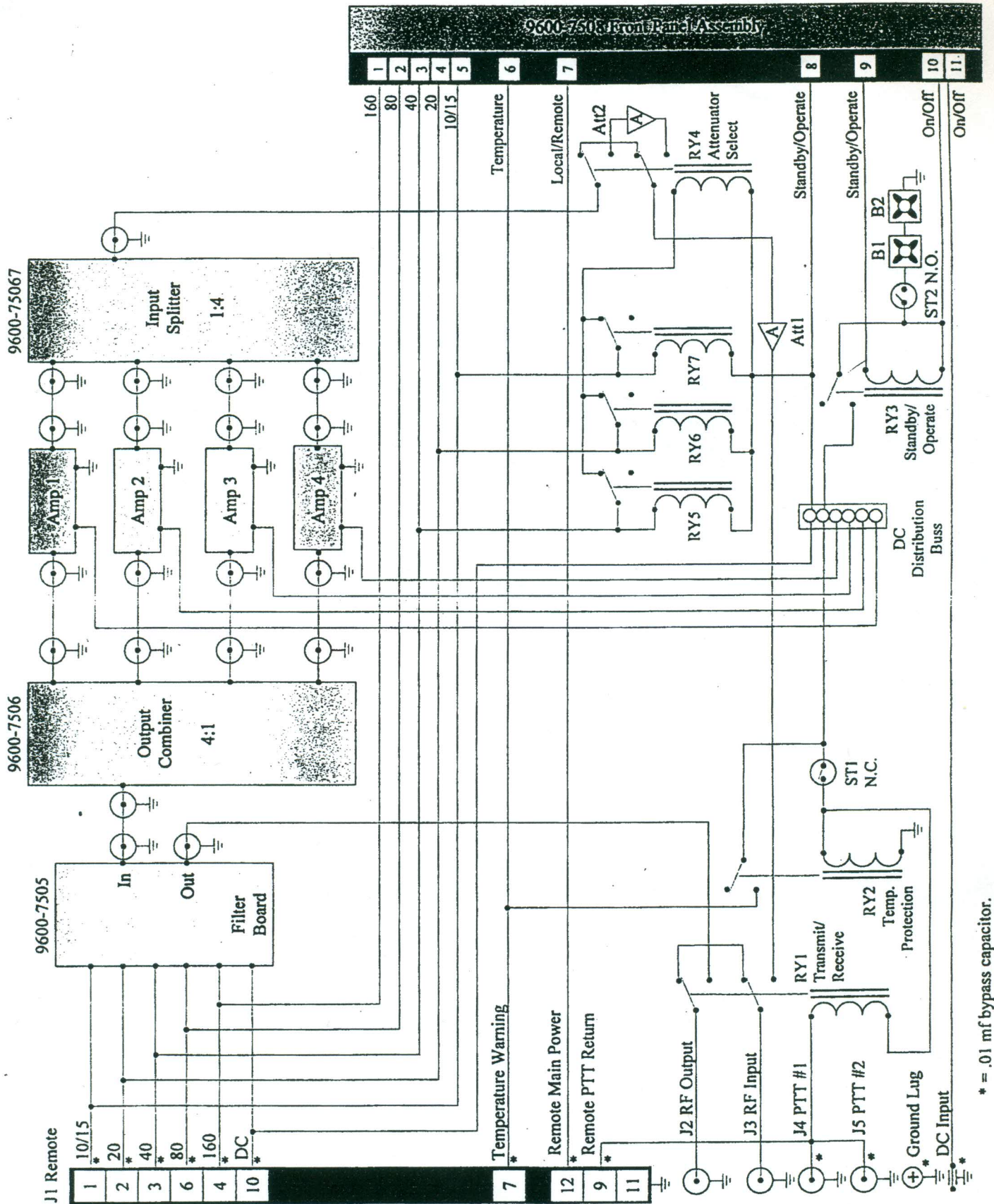
Cooling Fans (thermostat controlled) DC Power Connection PTT1 RF Output (UHF type)



Back

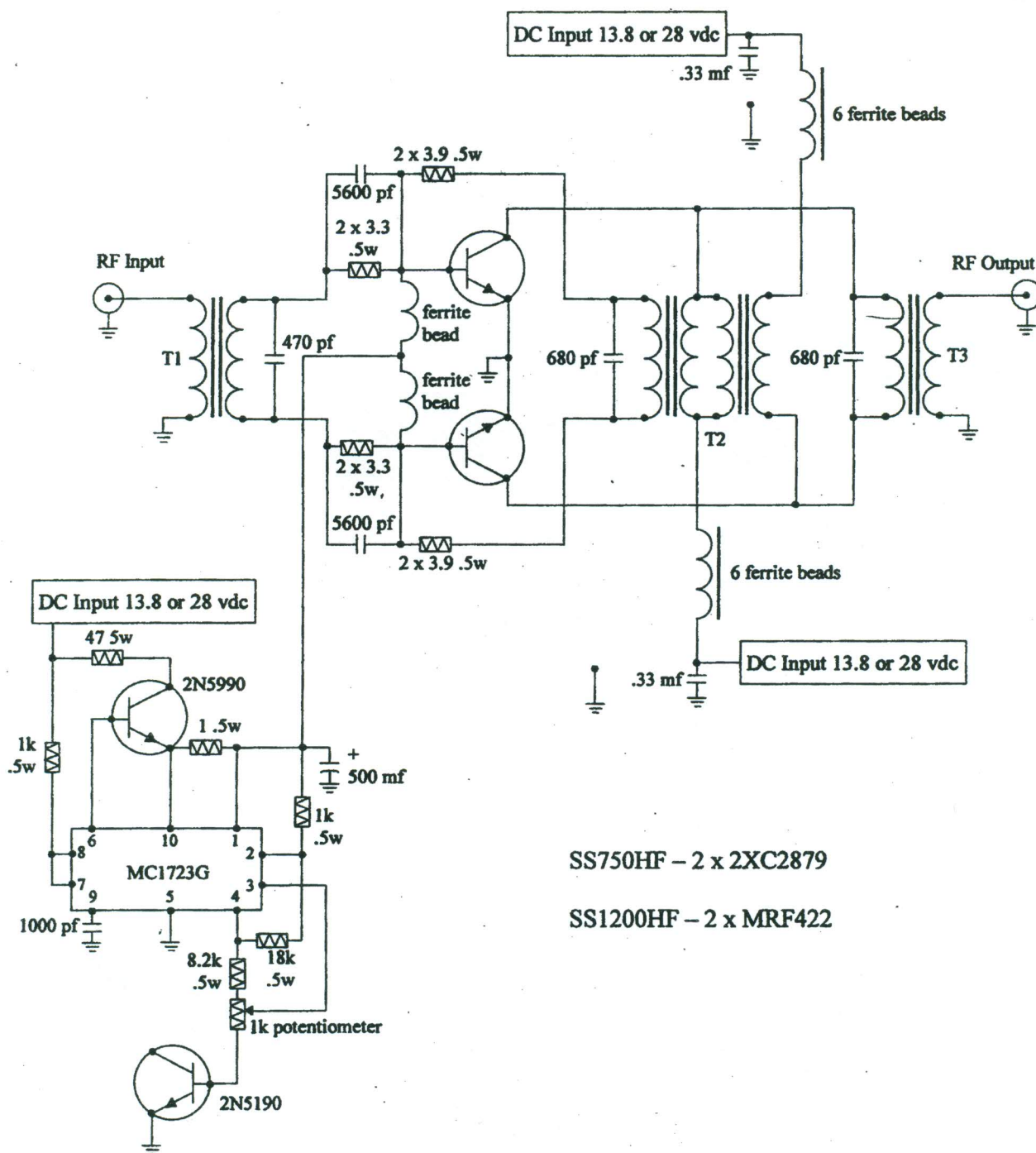
RF Input (UHF type) Ground Stud Power to Fans Remote Connector PTT2

SS750HF and SS1200HF Schematic Diagram – Chassis Diagram



* = .01 mf bypass capacitor.

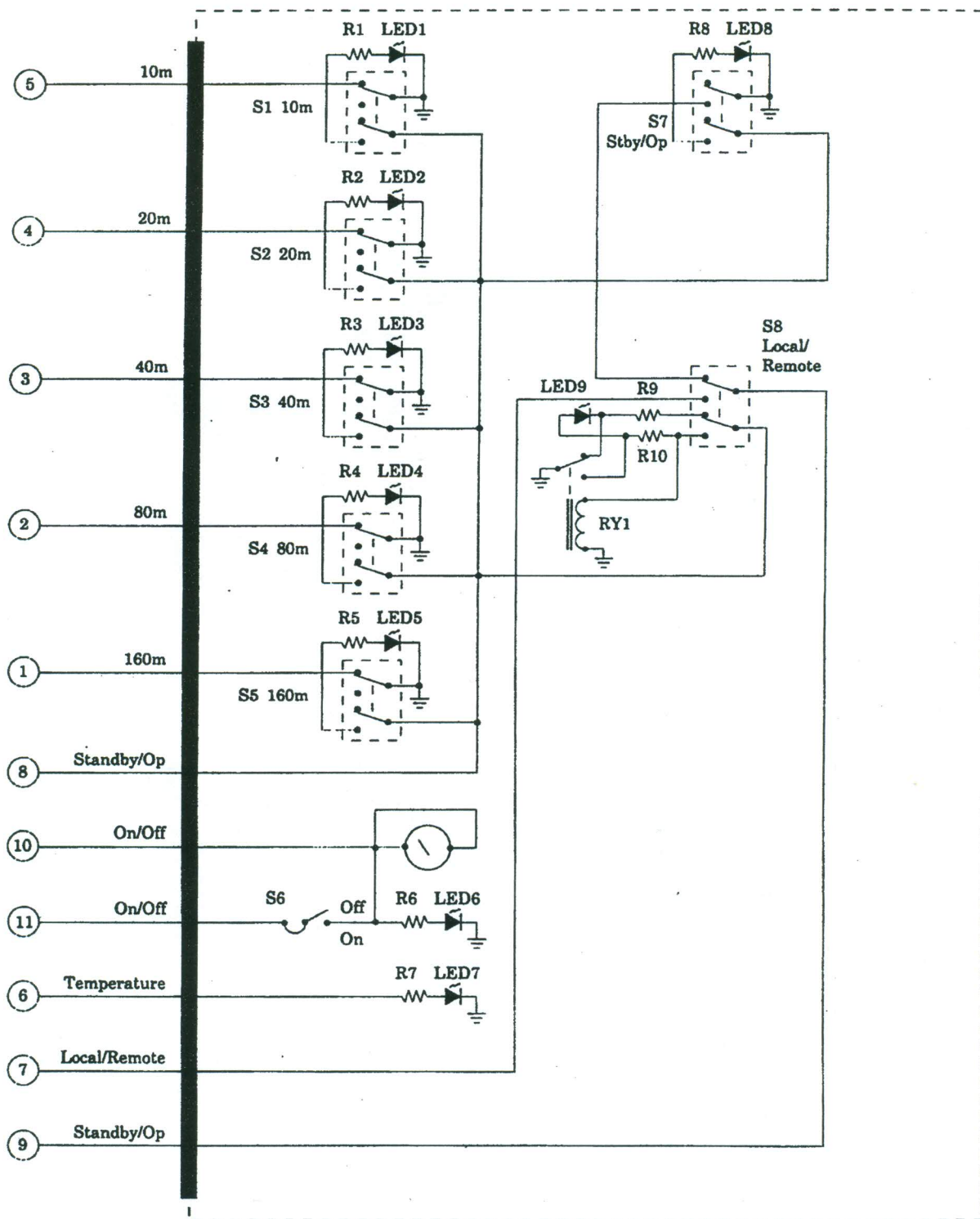
SS750HF and SS1200HF Schematic Diagram – Amplifier Module 9600-7504



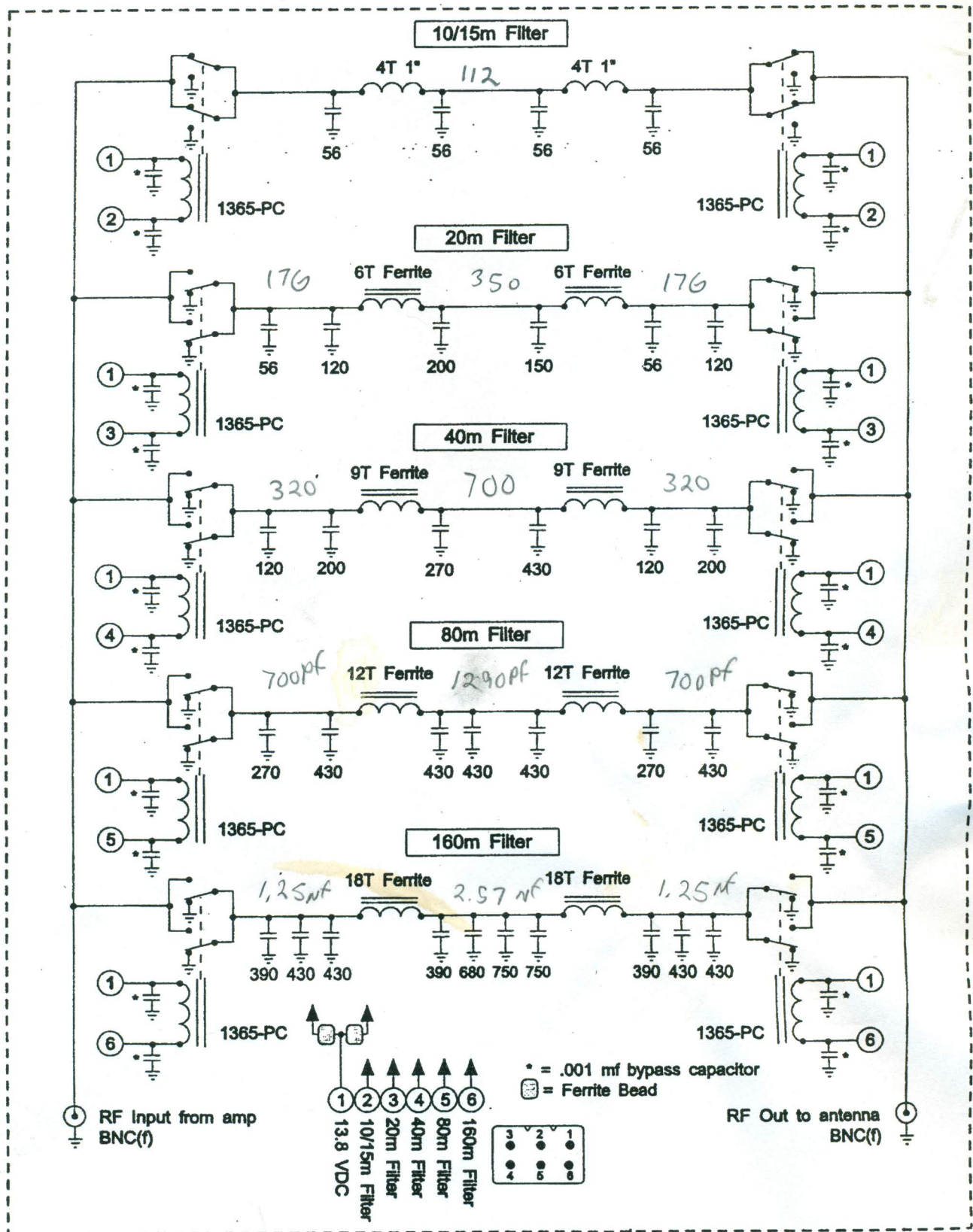
SS750HF – 2 x 2XC2879

SS1200HF – 2 x MRF422

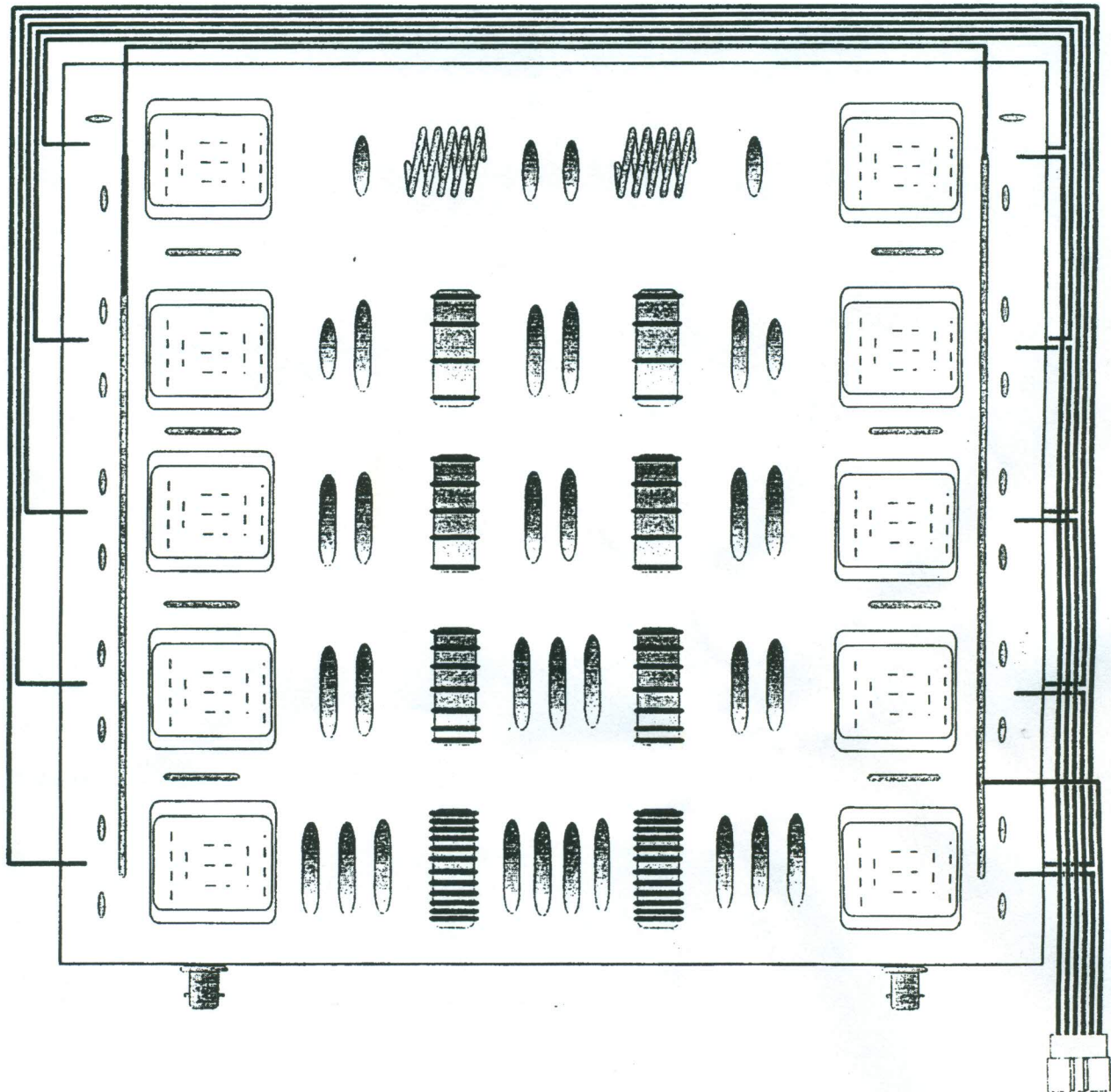
Henry 9600-7508 Front Panel Assembly



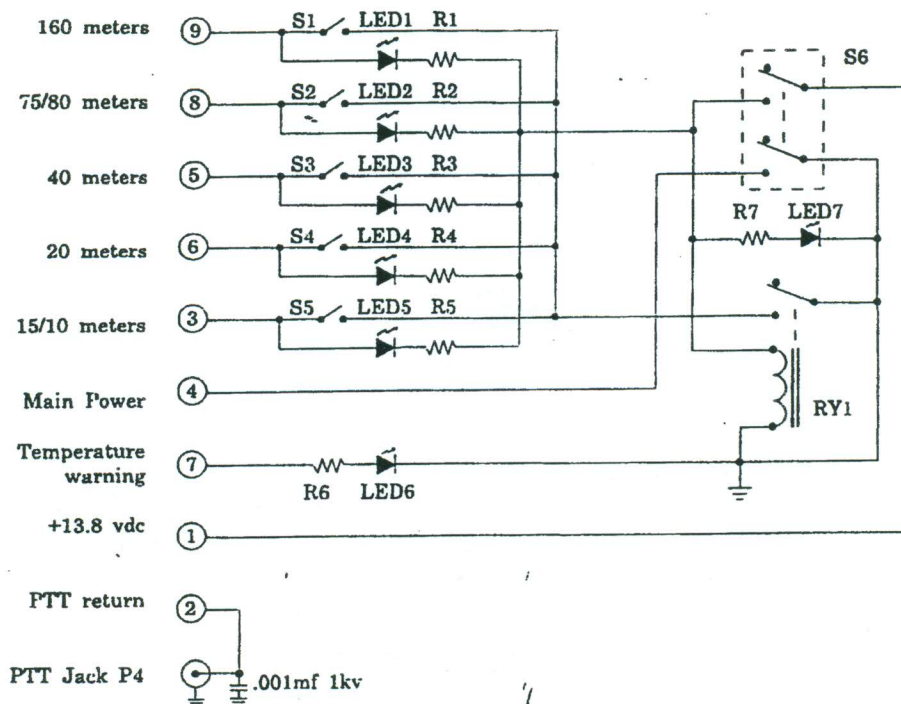
Henry 9600-7505 Filter Assembly



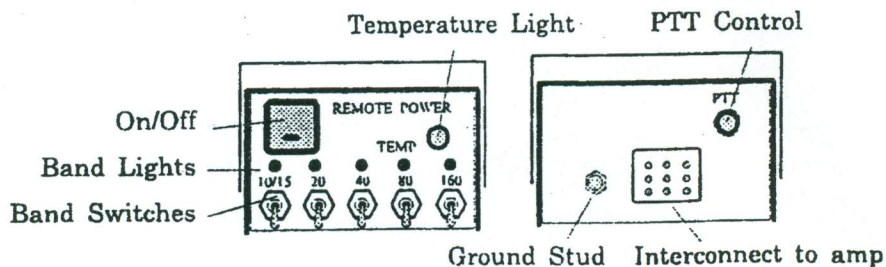
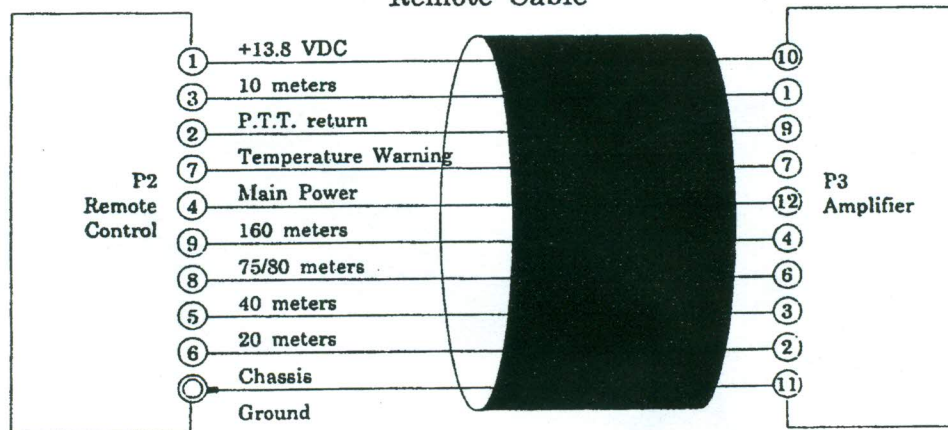
Henry 9600-7505 Filter Assembly

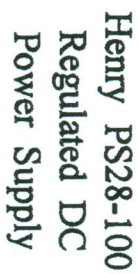


Henry 9600-7509 Remote Control Box



Remote Cable





HENRY SS750HF FAN SPEED CONTROL

