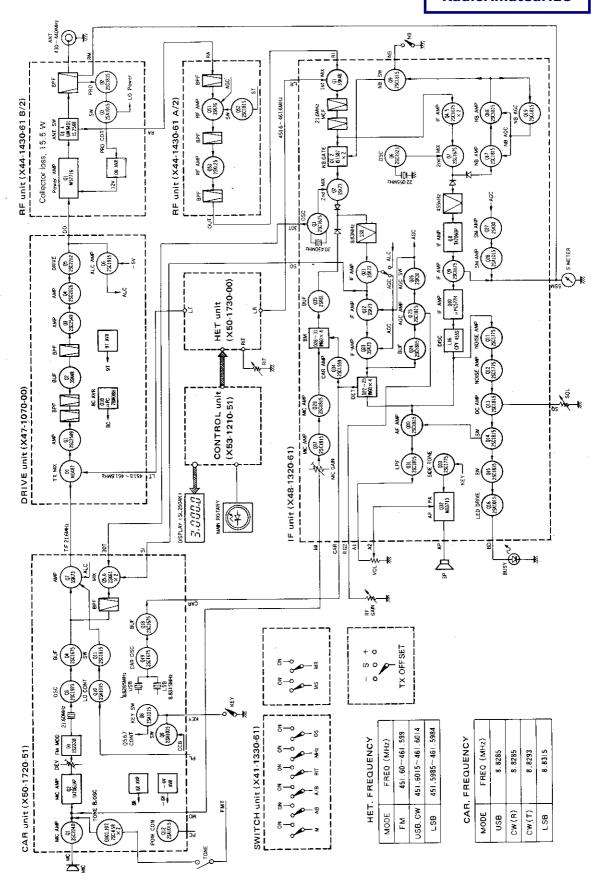
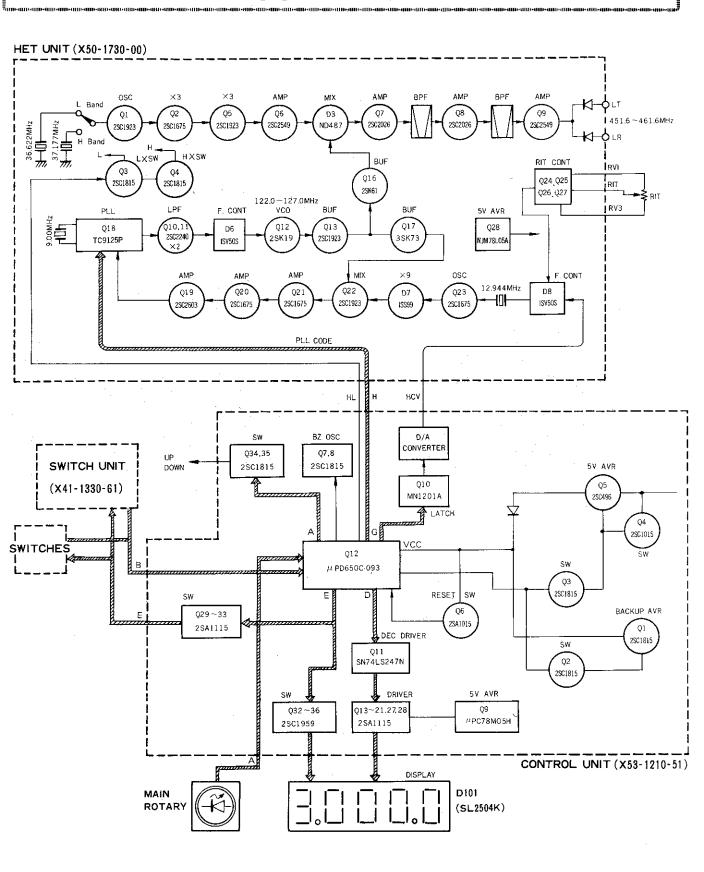
BLOCK DIAGRAM

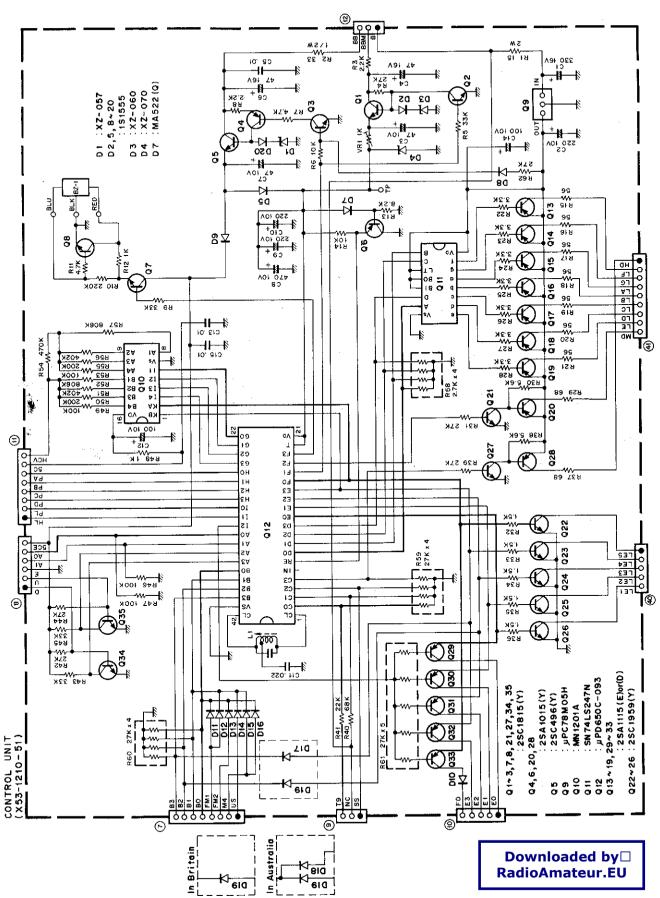
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BLOCK DIAGRAM



SCHEMATIC DIAGRAM



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TR-9500 SCHEMATIC

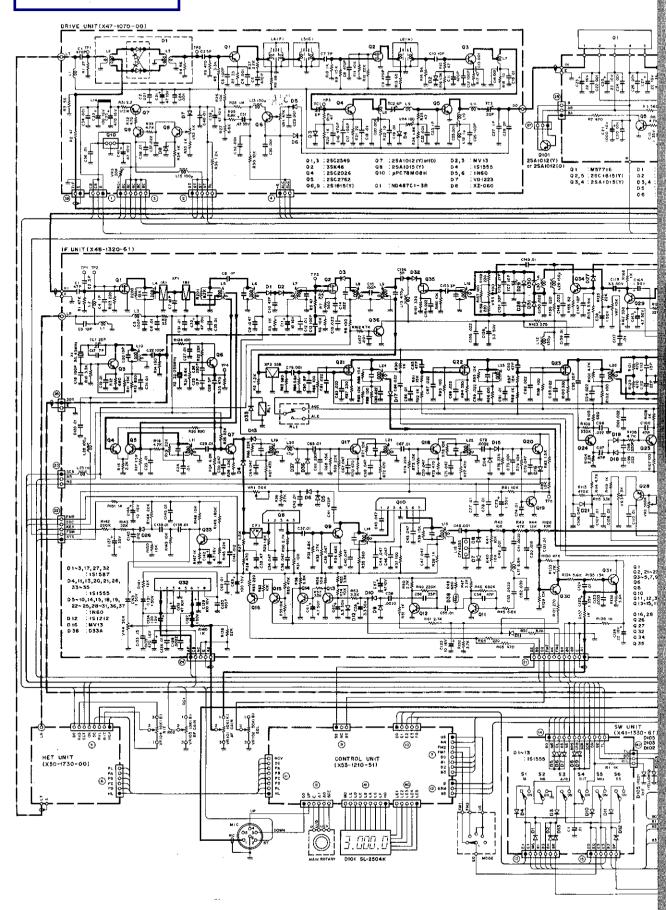


DIAGRAM Downloaded by □ RadioAmateur.EU RF UNIT (X44-1430-61)(A/2 RF UNIT (X44-1430-61)(8/2) Q51 :39K76-0 Q52 :28C1815(Y) Q53 :25K125 5 T 5 T 5 E . 01 2502240 (GR) 02 TA 7061AP 03 3250220 04,18 2250200 or 2504270 or 05,6 2506476 (GR) 07 38773 (GR) 08,10,15 21,14,16,17 213 2250496 (Y) 013 2250496 (Y) 019 2250496 (Y) 019 (25047878) D1 :152208 D2~7, t0~16, 101, 102 :151555 D8 :XZ-090 D9 :XZ-060 D17 :V068 5K48 5K73(GR) \$C460(8) or Z\$C1675(L) 5C1923(0) FM20 O OCW TR-9500(T)

SPECIFICATIONS

[General]			
Semiconductors	.ICs	12	
	FETs	17	
	Transistors 111		
	Diodes	115	
Frequency range	430.000.0 to 439.999.9 MHz		
Frequency synthesizer			
Mode	.SSB (A3J), FM (F3), CW (A1)		
Antenna impedance			
RPT. Tone burst frequency	.1,750 Hz		
Power requirement	13.8 V DC ±15%		
GroundingNegative			
Operating temperature 20°C to +50°C			
Current drain	0.7A in receive mode with no input signal		
	3.8A in transmit mode (Approx.)2.0 mA for memory back up		
Dimensions	.170 mm (6-11/16") wide		
	68 mm (2-	11/16") high	
	241 mm (9	3-1/2") deep	
Weight	.2.7 kg (5.9	94 lbs)	
[Transmitter Section]			
RF output power (at 13.8 V DC, 50 Ω load)	.10 W		
Modulation		Variable reactance direct shift	
• •	SSB	Balanced modulation	
Frequency tolerance	Less than :	± 10 × 10 ⁻⁶	
Spurious radiation	Less than	– 60 dB	
Carrier suppression	.Better than	40 dB	
Unwanted side band suppression	Better than 40 dB		
Maximum frequency deviation (FM)± 5 kHz			
Microphone			
[Receiver Section]			
Circuitry	.Double con	version superheterodyne	
Intermediate frequency	.1st IF	21.6 MHz	
	2nd iF	(FM) 455 kHz, (SSB/CW) 8.83 MHz	
Receiver sensitivity	.FM	Better than 0.5 µV for 35 dB S/N	
•		Better than 0.25 µV for 12 dB SINAD	
	SSB, CW	Better than 0.5 µV for 20 dB S/N	
Receiver selectivity	.FM	More than 14 kHz (-6 dB)	
		Less than 20 kHz (-60 dB)	
	SSB, CW	More than 2.4 kHz (-6 dB)	
		Less than 4.8 kHz (-60 dB)	
Spurious interference	.Better than 60 dB		
Squelch sensitivity			
Auto scan stop level	Less than 0.2 μV (Threshold)		
	.More than 2.0 watts across 8 ohms load (10% dist.)		
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Note: Circuit and ratings are subject to change without notice due to developments in technology.

SV1BSX

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