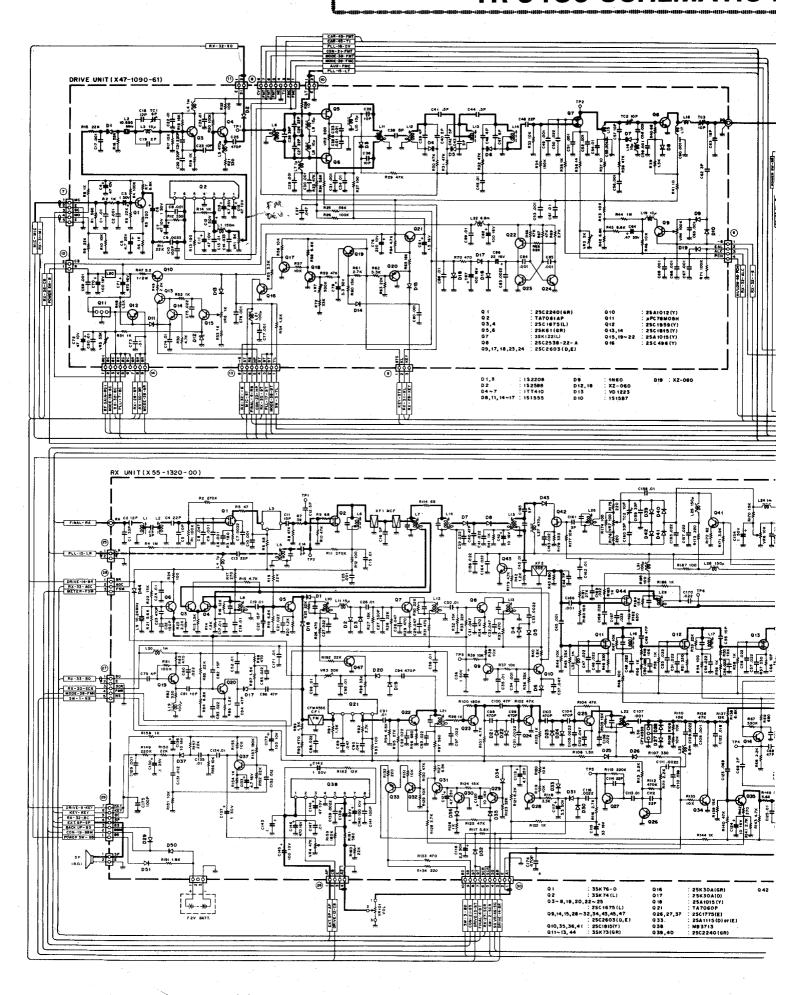
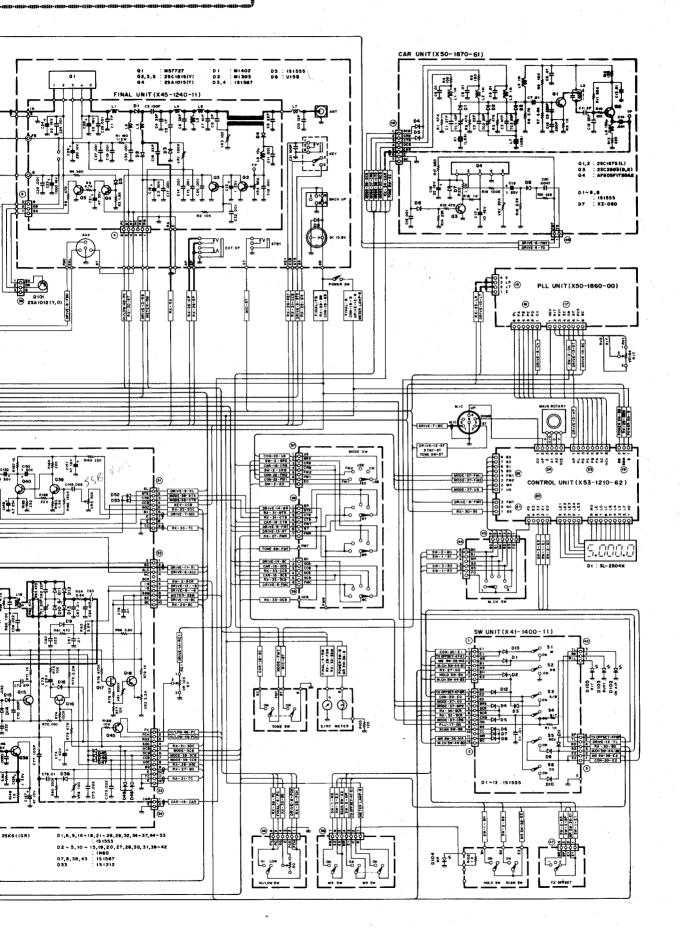
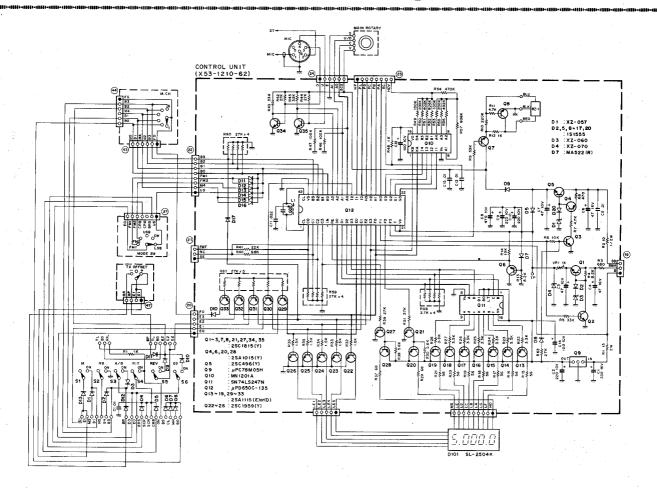
TR-9130 SCHEMATIC

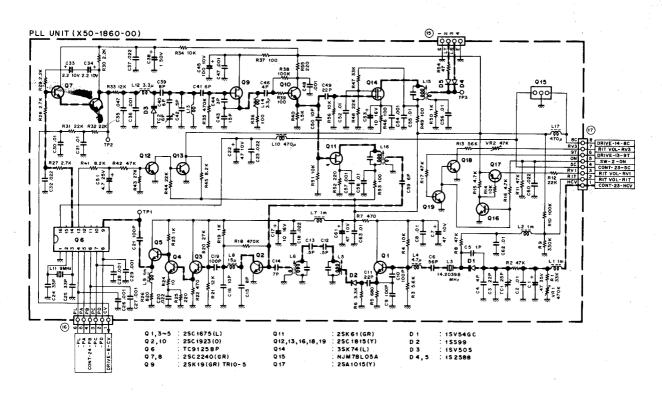


DIAGRAM

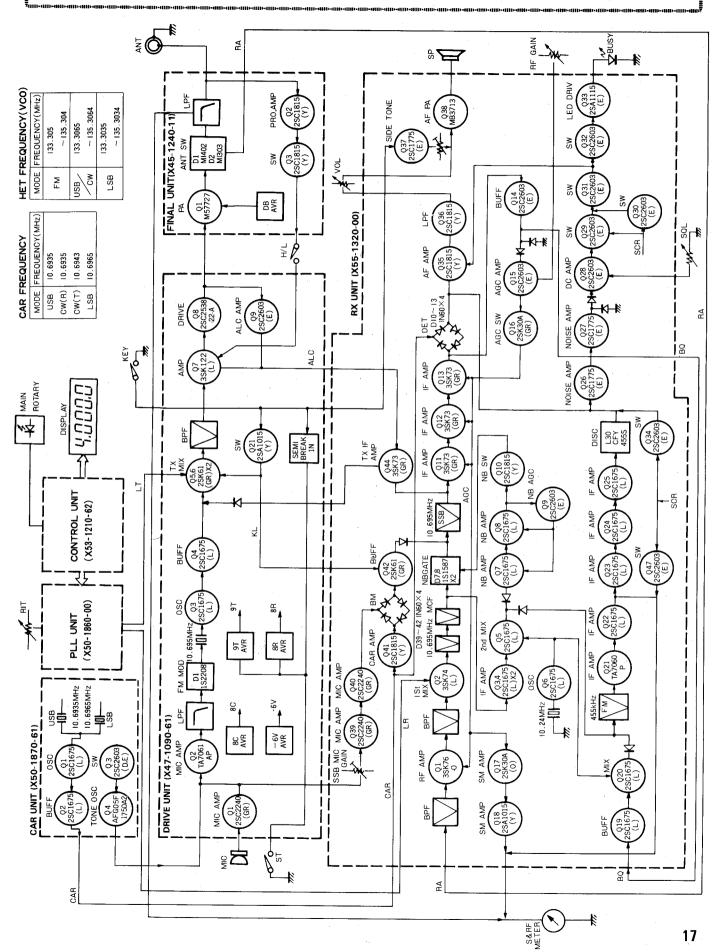


SCHEMATIC DIAGRAM

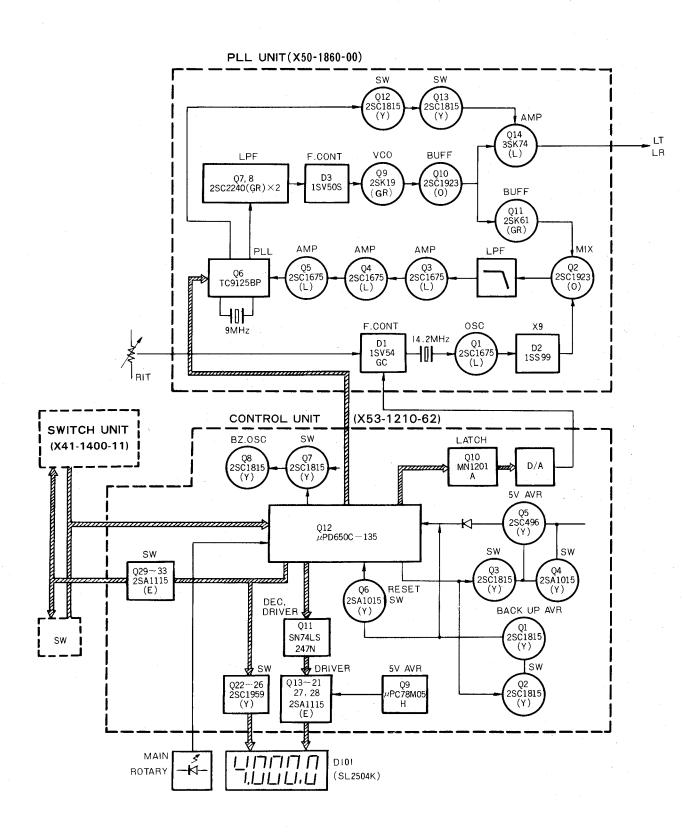




BLOCK DIAGRAM



BLOCK DIAGRAM



SPECIFICATIONS

[General]			
Semiconductors		12	
	FETs	15	
	Transistors 105		
	Diodes	126	
Frequency range	144 to 14	6 MHz	
Frequency synthesizer	Digital control, phase locked VCO		
Mode	SSB (A3j), FM (F3), CW (A1)		
Frequency stability	Within ± ا	500Hz during the first hour after 1 m	inute of warm up, and
	within 50Hz any 30 minutes thereafter at 25°C (constant).		
Power requirement	13.8V DC±15%		
Grounding			
Operating temperature		o +50°C	
	0.7A in receive mode with no input signal		
	6.0A in HI transmit mode (Approx.)		
	3.5A in LOW transmit mode (Approx.)		
	Less than 3.0mA for memory back up		
Dimensions			
Difficusions		-11/16") high	
	241mm (9-1/2") deep		
	(projections not included)		
Weight			
<u> </u>	2.4kg (5.	3103/	
[Transmitter Section]	· UL/CCB I	-N4 C\A/\ 25\A/ min	
RF output power (at 13.8V DC, 50Ω load) .	Low (FM, CW) 5W approx.		
		• •	
Modulation		Variable reactance direct shift	
	SSB	Balanced modulation	
Tone frequency			
Frequency tolerance			
	FM	Less than $\pm 20 \times 10^{-6}$	
Spurious radiation	HI	Less than -60dB	
	LOW	Less than $-53 \mathrm{dB}$	
Carrier suppression			
Unwanted side band suppression	Better than 40dB		
Maximum frequency deviation (FM)			
Microphone	Dynamic ı	microphone with PTT switch, 500Ω	
[Receiver Section]			
Circuitry	FM	Double conversion superheterodyne	!
	SSB, CW	Single conversion superheterodyne	
Intermediate frequency	1st IF	10.695MHz	
	2nd IF (FN	M) 455kHz	
Receiver sensitivity	FM	Better than 0.5µV for 30dB S/N	
		Better than 0.2µV for 12dB SINAD	
	SSB, CW		
Receiver selectivity		More than 14kHz (-6dB)	
,		Less than 30kHz (-60dB)	
	SSB, CW	More than 2.2kHz (-6dB)	
		Less than 4.8kHz (-60dB)	
Spurious interference			
Squelch sensitivity			
Auto scan stop level			
	More than 2.0 watts across 8ohms load (10% dist.)		
Audio output	viore mar	1 2.0 Walls across commis load (10 /0	aiot.,

Note: Circuit and ratings are subject to change without notice due to developments in technology.