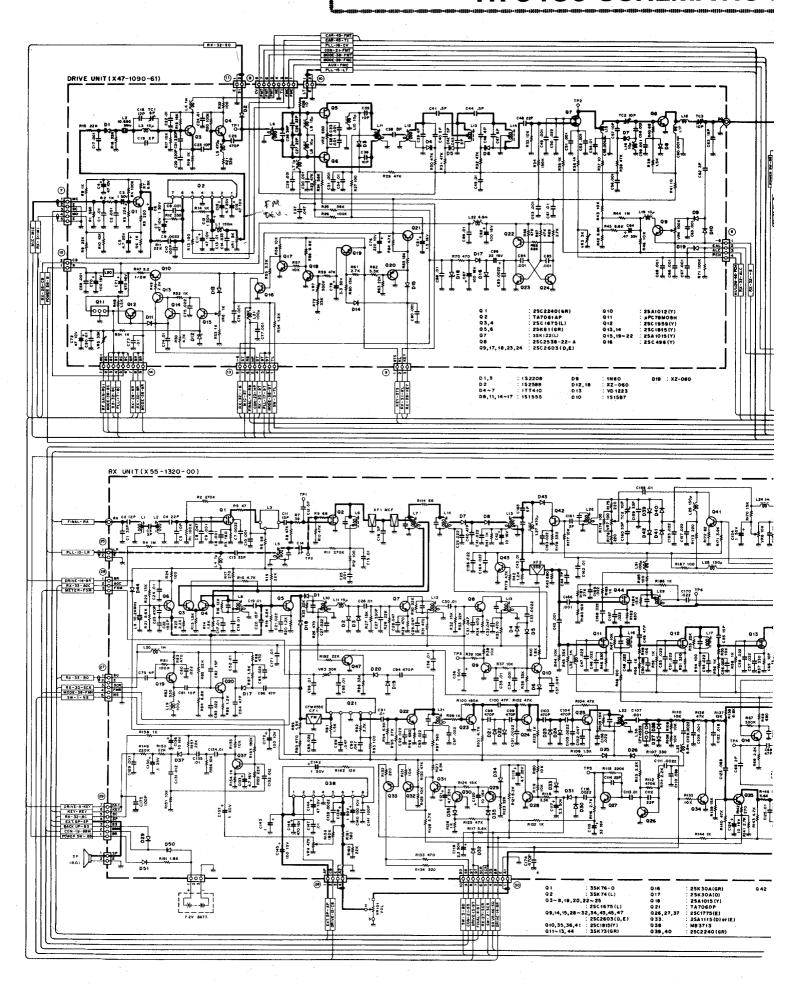
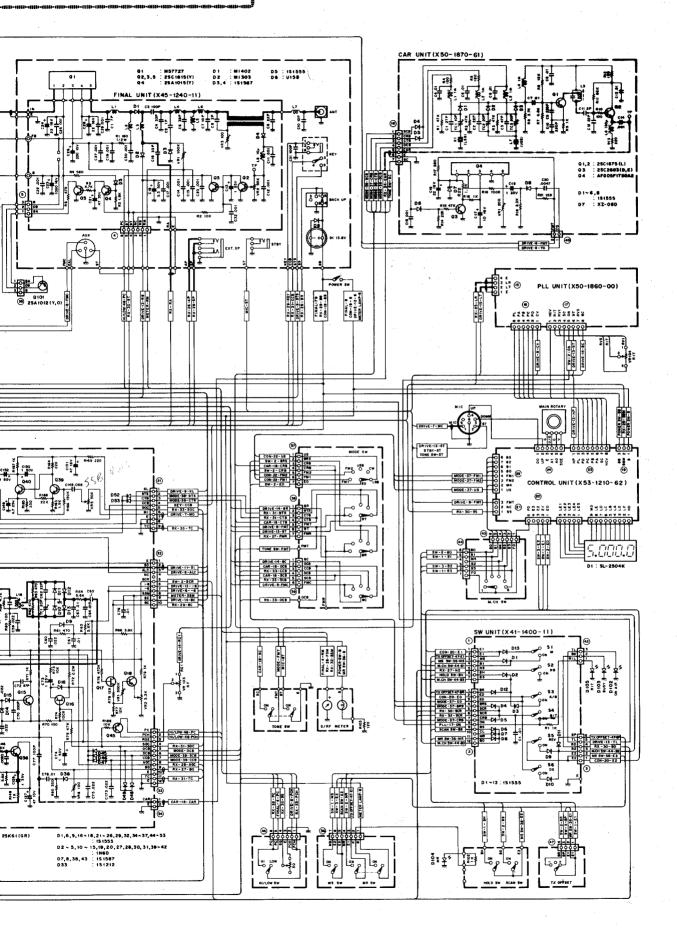
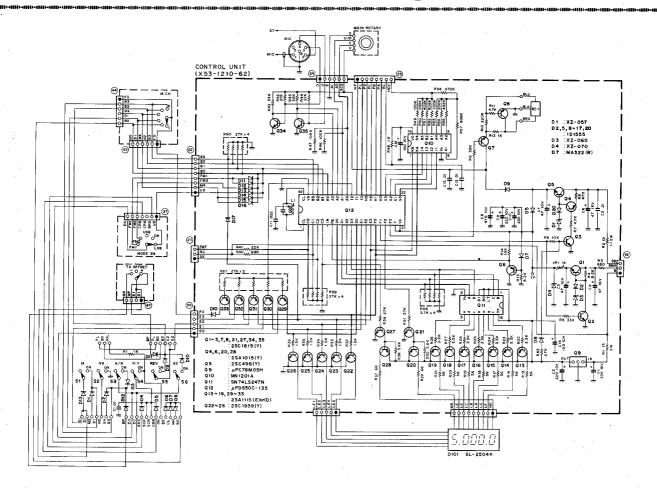
TR-9130 SCHEMATIC

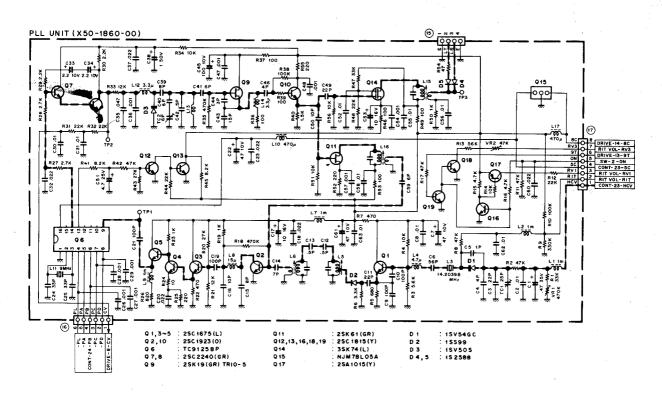


DIAGRAM

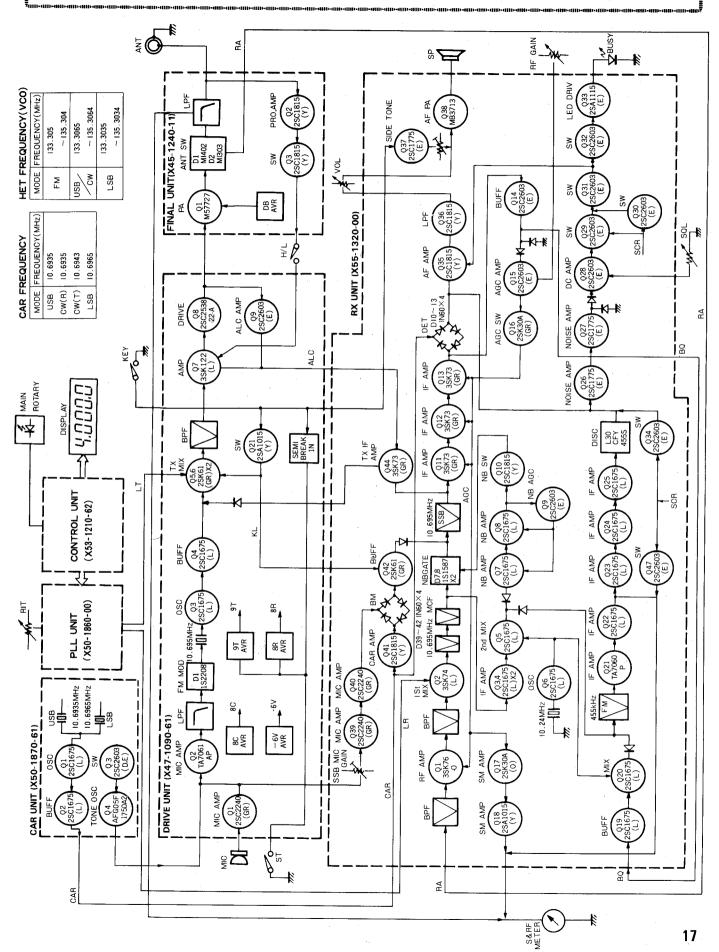


SCHEMATIC DIAGRAM

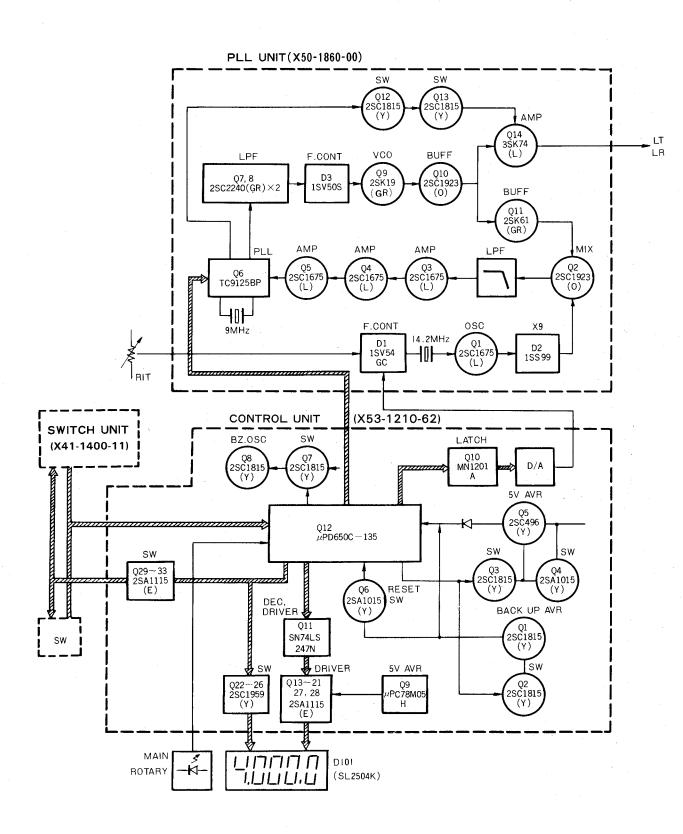




BLOCK DIAGRAM



BLOCK DIAGRAM



SPECIFICATIONS

[General]		10		
Semiconductors		12		
	FETs	15		
	Transistor	,		
	Diodes	126		
Frequency range				
Frequency synthesizer				
Mode				
Frequency stability				
		Hz any 30 minutes thereafter at 25°C	C (constant).	
Power requirement				
Grounding				
	perature 20°C to +50°C			
Current drain				
		transmit mode (Approx.)		
	3.5A in LOW transmit mode (Approx.)			
	Less than 3.0mA for memory back up			
Dimensions	170mm (6	6-11/16") wide		
	68mm (2-11/16") high			
	241mm (9	241mm (9-1/2") deep		
	(projections not included)			
Weight	2.4kg (5.5lbs)			
[Transmitter Section]				
RF output power (at 13.8V DC, 50Ω load)HI (SSB, FM, CW) 25W min.				
	Low (FM,	Low (FM, CW) 5W approx.		
Modulation	FM	Variable reactance direct shift		
	SSB	Balanced modulation		
Tone frequency	1750Hz			
Frequency tolerance		Less than $\pm 10 \times 10^{-6}$		
	FM	Less than $\pm 20 \times 10^{-6}$		
Spurious radiation	HI	Less than -60dB	•	
•	LOW	Less than -53dB		
Carrier suppression	Better tha	n 40dB		
Unwanted side band suppression	onBetter than 40dB			
Maximum frequency deviation (FM)				
Microphone		nicrophone 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	Л) 455kHz		
Receiver sensitivity	FM	Better than 0.5µV for 30dB S/N		
		Better than 0.2μV for 12dB SINAD		
	SSB, CW	$0.2\mu V$ for 10dB S/N		
Receiver selectivity	FM	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.)			
The second secon				

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