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TABLE XII

Ch	Freq	Mode	7MHz			12.8MHz			16MHz						6MHz			
			7.7985MHz	7.8015MHz	7.3450MHz	12.7985MHz ± 800Hz	12.800MHz ± 2.3kHz	12.8015MHz ± 800Hz	15.965MHz	16.015MHz	16.065MHz	16.115MHz	16.165MHz	16.215MHz	6.000MHz	6.010MHz	6.020MHz	6.040MHz
1	26.965 MHz	USB		o				o	o						o			
		LSB, AM-TX	o			o			o						o			
		AM-RX			o		o		o						o			
2	26.975 MHz	USB		o				o	o							o		
		LSB, AM-TX	o			o			o							o		
		AM-RX			o		o		o							o		
3	26.985 MHz	USB		o				o	o								o	
		LSB, AM-TX	o			o			o								o	
		AM-RX			o		o		o								o	
4	27.005 MHz	USB		o				o	o									o
		LSB, AM-TX	o			o			o									o
		AM-RX			o		o		o									o
5	27.015 MHz	USB		o					o		o		o					
		LSB, AM-TX	o			o					o		o					
		AM-RX			o		o				o		o					
6	27.025 MHz	USB		o					o		o					o		
		LSB, AM-TX	o			o					o					o		
		AM-RX			o		o				o					o		

		7MHz			12.8MHz			16MHz						6MHz			
		7.7985MHz	7.8015MHz	7.3450MHz	12.7985MHz ±800Hz	12.800MHz ±2.3kHz	12.8015MHz ±800Hz	15.965MHz	16.015MHz	16.065MHz	16.115MHz	16.165MHz	16.215MHz	6.000MHz	6.010MHz	6.020MHz	6.040MHz
7	USB		o				o		o							o	
27.035	LSB, AM-TX	o			o				o							o	
MHz	AM-RX			o		o			o							o	
8	USB		o				o		o								o
27.055	LSB, AM-TX	o			o				o								o
MHz	AM-RX			o		o			o								o
9	USB		o				o			o				o			
27.065	LSB, AM-TX	o			o					o				o			
MHz	AM-RX			o		o				o				o			
10	USB		o				o			o					o		
27.075	LSB, AM-TX	o			o					o					o		
MHz	AM-RX			o		o				o					o		
11	USB		o				o			o						o	
27.085	LSB, AM-TX	o			o					o						o	
MHz	AM-RX			o		o				o						o	
12	USB		o				o			o							o
27.105	LSB, AM-TX	o			o					o							o
MHz	AM-RX			o		o				o							o
13	USB		o				o				o			o			
27.115	LSB, AM-TX	o			o						o			o			
MHz	AM-RX			o		o					o			o			

		7MHz			12.8MHz				16MHz					6MHz			
		7.7985MHz	7.8015MHz	7.3450MHz	12.7985MHz ± 800Hz	12.800MHz ± 2.3kHz	12.8015MHz ± 800Hz	15.965MHz	16.015MHz	16.065MHz	16.115MHz	16.165MHz	16.215MHz	6.000MHz	6.010MHz	6.020MHz	6.040MHz
14	USB		o				o				o				o		
27.125	LSB, AM-TX	o			o						o				o		
MHz	AM-RX			o		o					o				o		
15	USB		o				o				o					o	
27.135	LSB, AM-TX	o			o						o					o	
MHz	AM-RX			o		o					o					o	
16	USB		o				o				o						o
27.155	LSB, AM-TX	o			o						o						o
MHz	AM-RX			o		o					o						o
17	USB		o				o					o			o		
27.165	LSB, AM-TX	o			o							o			o		
MHz	AM-RX			o		o						o			o		
18	USB		o				o					o				o	
27.175	LSB, AM-TX	o			o							o				o	
MHz	AM-RX			o		o						o				o	
19	USB		o				o					o				o	
27.185	LSB, AM-TX	o			o							o				o	
MHz	AM-RX			o		o						o				o	
20	USB		o				o					o					o
27.205	LSB, AM-TX	o			o							o					o
MHz	AM-RX			o		o						o					o

			7MHz			12.8MHz				16MHz					6MHz			
			7.7985MHz	7.8015MHz	7.3450MHz	12.7985MHz ± 800Hz	12.800MHz ± 2.3kHz	12.8015MHz ± 800Hz	15.965MHz	16.015MHz	16.065MHz	16.115MHz	16.165MHz	16.215MHz	6.000MHz	6.010MHz	6.020MHz	6.040MHz
21		USB		o				o							o	o		
27.215		LSB, AM-TX	o				o								o	o		
MHz		AM-RX			o	o									o	o		
22		USB		o				o							o		o	
27.225		LSB, AM-TX	o				o								o		o	
MHz		AM-RX			o	o									o		o	
23		USB		o				o							o			o
27.255		LSB, AM-TX	o				o								o			o
MHz		AM-RX			o	o									o			o

5.4   Carrier Oscillator Alignment

A.   Connect the frequency counter to TP1-TP2.

B.   Set the mode selector switch to upper sideband.

C.   Adjust C4 for the output frequency to 7,801.500kHz.

D.   Set the mode selector switch to lower sideband.

E.   Adjust C2 for the output frequency of 7,798.500kHz.

TABLE XIII

Location	RF Voltage
Q2 Base	0.5V P-P
TP1	0.6V P-P

7. SIGNAL FLOW

AM RECEIVE SIGNAL FLOW

Q7	RF Gain Control	27MHz	
Q8	AGC	27MHz	
Q9	RF Amp.	27MHz	
IC2	Noise Blanker	27MHz	7.8MHz
Synthesizer	1st LO.	34.8MHz	
Q10	1st Mixer	7.8MHz	
Q16	2nd LO.	7.3MHz	
Q11	2nd Mixer	455KHz	
Q12, 13	IF Amp.	455KHz	
CD23	Detector	Audio	
CD25	A.N.L.	Audio	
Q32, 33, 34, 36, 37	Audio Amp.	Audio	
CD24	S meter Det.	DC	
Q38, 39	Squelch Amp.	DC	
Q35	Bias	DC	

SSB RECEIVER SIGNAL FLOW

Q7	RF Amp.	27MHz	
Q8	AGC	27MHz	
Q9	RF Gain Control	27MHz	
IC2	Noise Blanker	27MHz	7.8MHz
Synthesizer	1st LO.	34.8MHz	
Q10	1st Mixer	7.8MHz	
U1	Filter	7.8MHz	

IC1	IF Amp.	7.8MHz
CD8, 9, 10, 11	Balanced Demodulator	Audio
Q1	USB and LSB 2nd LO.	7.8MHz
Q2	Buffer Amp.	7.8MHz
Q32, 33, 34, 36, 37	Audio Amp.	Audio
Q28, 29	AGC Amp.	Audio
Q30, 31	AGC Amp.	DC
CD43, 44	AGC Det.	DC
CD 41, 42	S meter Det.	DC
Q38, 39	Squelch Amp.	DC
Q35	Bias	DC

AM TRANSMIT SIGNAL FLOW

Q1	Carrier OSC	7.8MHz
Q2	Buffer Amp.	7.8MHz
Synthesizer	Local OSC	34.8MHz
Q3, 4	Mixer	27MHz
Q6	RF Amp.	27MHz
Q17	RF Amp.	27MHz
Q18	RF Driver	27MHz
Q21	Final Amp.	27MHz
Q19	Bias	DC
CD35	Lamp Detector	DC
Q22	Lamp Amp.	DC
Q24	Mod AGC	Audio

Q25, 26, 33, 34	Audio Amp.	Audio
Q36, 37	Modulator	Audio
Q5, 14, 15	APC	DC
CD27	APC Det.	DC

SSB TRANSMIT SIGNAL FLOW

Q24	ALC Gate	Audio
Q25, 26, 27	Audio Amp.	Audio
Q1	USB and LSB Carrier	7.8MHz
Q2	Buffer Amp.	7.8MHz
CD8, 9, 10, 11	Balanced Modulator	7.8MHz
U1	Filter	7.8MHz
Synthesizer	Local, OSC	34.8MHz
Q3, 4	Mixer	27MHz
Q6	RF Amp.	27MHz
Q17	RF Amp.	27MHz
Q18	Driver	27MHz
Q21	Final Amp.	27MHz
Q19, 20	Bias	DC
CD34	AGC Det.	DC
CD35	Lamp Det.	DC
Q22	Lamp Amp.	DC
CD27	APC Det.	DC
Q5, 14, 15	APC	DC
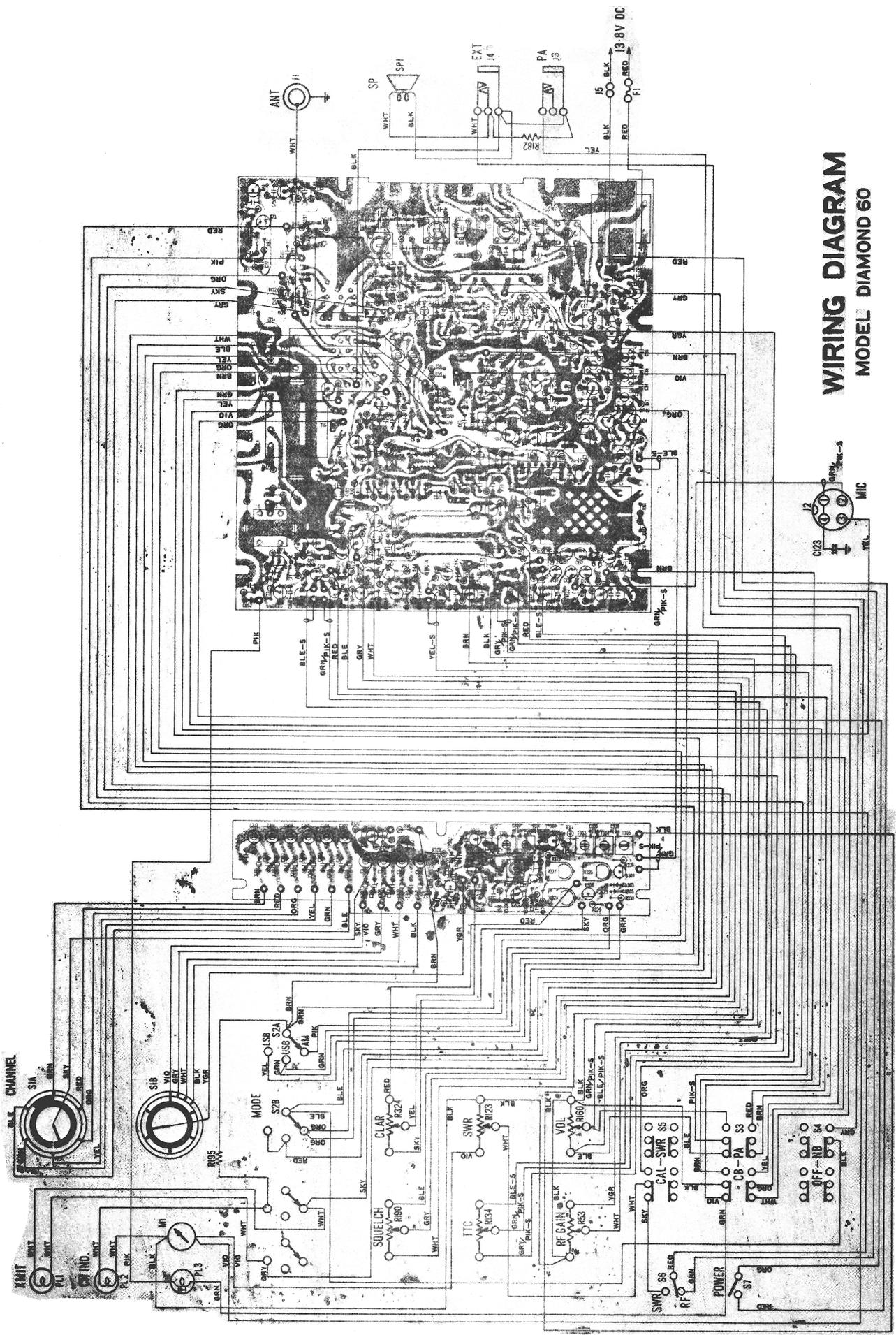
WIRING DIAGRAM
MODEL DIAMOND 60