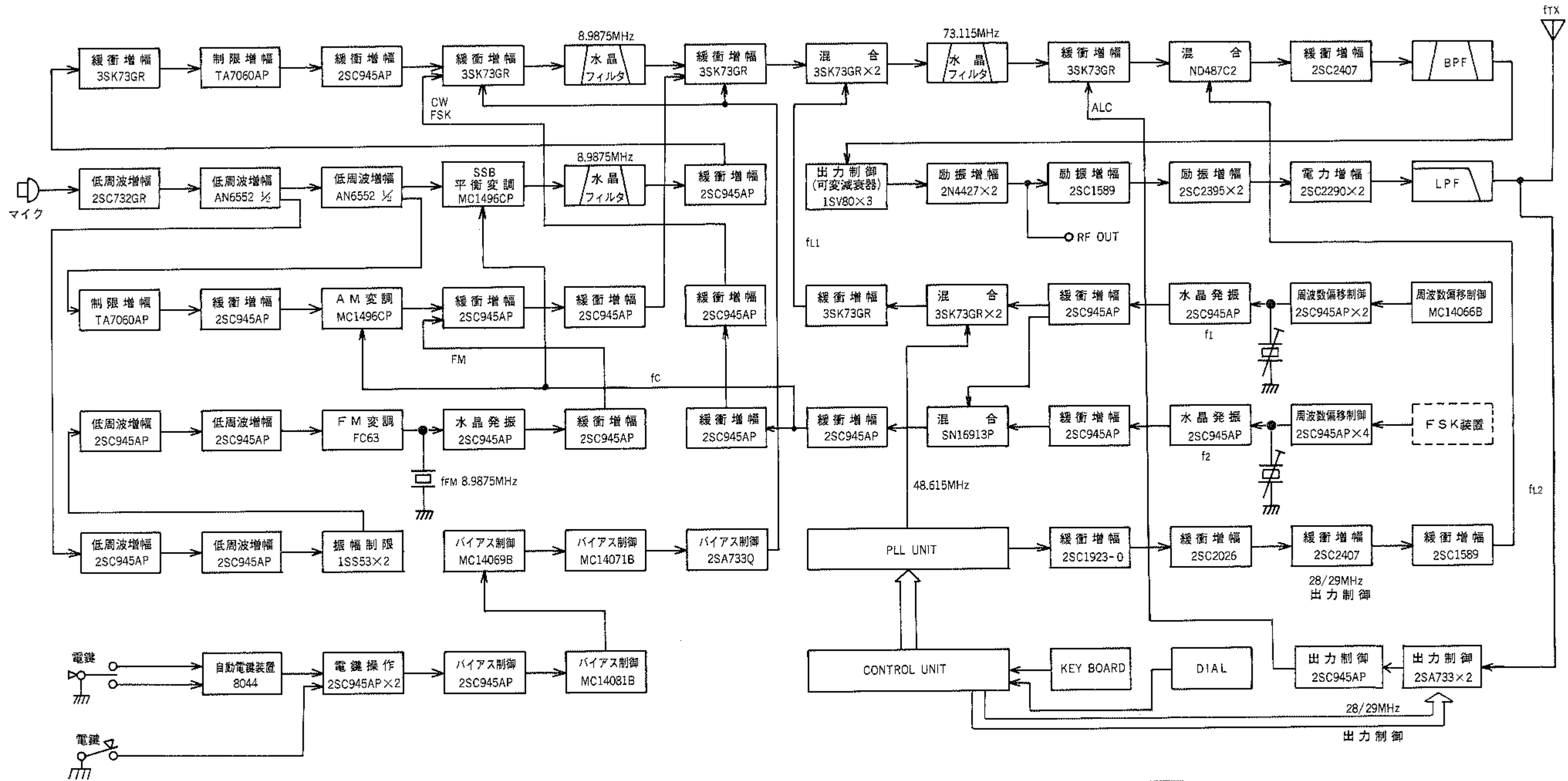


送信機系統図



MODE	f1 (MHz)
FSK, LSB	15.5140
CW, USB	15.5110
AM, FM	15.5125

MODE	f2 (MHz)
USB, LSB	24.500
CW	24.4992
FSK(MARK) (SPACE)	24.502125 24.502295

MODE	fL1 (MHz)
FSK, LSB	64.1290
CW, USB	64.1260
AM, FM	64.1275

fTX	fL2 (MHz)
1.8MHz帯	74.915 - 75.1149
3.5	76.115 - 77.1149
7	80.115 - 81.1149
10	83.115 - 84.1149
14	87.115 - 88.1149
18	91.115 - 92.1149
21	94.115 - 95.1149
24	97.115 - 98.1149
28	101.115 - 103.1149

MODE	fc (kHz)
LSB	8986.0
USB	8989.0
AM	8987.5
FSK(MARK) (SPACE)	8988.125 8988.295

本機はバンド切り換えに連動し、28MHz帯の出力電力は50W、他の周波数帯の出力電力は100Wに制御されます。

回路素子と動作

MAIN CHASSIS

PART NO.	DEVICE	TYPE	FUNCTION
D1	V06B	Si Diode	Switch
D2	1SS53	"	Reverse Voltage Protector
D3	"	"	Switch
D4	"	"	"
D5	"	"	"
D6	"	"	"
D7	"	"	"

EXT CONT. UNIT

PART NO.	DEVICE	TYPE	FUNCTION
Q2201	2SC945P	Transistor	Switch
Q2202	"	"	"

SENSOR, LEVEL SW, PUSH SW UNIT

PART NO.	DEVICE	TYPE	FUNCTION
Q7301	ON-1105	Photo Interrupter	Switch
Q7302	"	"	"
Q7303	2SC945AP	Transistor	DC Amplifier
Q7304	"	"	"
D7401	1SS53	Si Diode	Switch
D7402	"	"	"
D7403	"	"	"
D7404	"	"	"
D7501	1SS53	Si Diode	Switch

KEYBOARD UNIT

PART NO.	DEVICE	TYPE	FUNCTION
D7601	1SS53	Si Diode	Switch
{	{	{	{
D7609	1SS53	Si Diode	Switch

DIODE SW UNIT

PART NO.	DEVICE	TYPE	FUNCTION
D7801	V06B	Si Diode	Switch
{	{	{	{
D7810	V06B	Si Diode	Switch

RF UNIT

PART NO.	DEVICE	TYPE	FUNCTION
Q1001	2SB774	Transistor	TX Power Controller
Q1002	"	"	"
Q1003	"	"	"
Q1004	"	"	"
Q1005	"	"	"
Q1006	"	"	"
Q1007	"	"	"
Q1008	"	"	"
Q1009	"	"	"
Q1010	2N4427	"	TX, RX, RF Amplifier
Q1011	"	"	"
Q1012	ND487C2-3R	IC (Ring Module)	RX 1st Mixer TX 2nd Mixer
Q1013	2SK125-3	Junction FET	RX 1st IF Amplifier
Q1014	2SC2407	Transistor	TX Amplifier
Q1015	3SK73GR	Dual Gate MOS FET	TX ALC Amplifier
Q1016	2SC1923-O	Transistor	RX 1st LOCAL Buffer Amplifier TX 2nd LOCAL Buffer Amplifier
Q1017	2SC2026	"	RX 1st LOCAL Amplifier TX 2nd LOCAL Amplifier
Q1018	2SC2407	"	RX 1st LOCAL Buffer Amplifier TX 2nd LOCAL Buffer Amplifier
Q1019	2SC1589	"	"
D1001	1SS53	Si Diode	Switch
{	{	{	{
D1040	1SS53	Si Diode	Switch
D1041	RD8.2EB3	Zener Diode	Regulator
D1042	1SV80	PIN Diode	TX, RX, RF Attenuator
D1043	"	"	"
D1044	"	"	"
D1045	RD6.2EB3	Zener Diode	Regulator
D1046	1SS53	Si Diode	Switch
D1047	"	"	"
D1048	"	"	"
D1049	"	"	"
D1050	"	"	"
D1051	"	"	"
D1052	"	"	"
D1053	"	"	"
D1054	"	"	"
D1055	"	"	"
D1056	"	"	"
D1057	RD9.1EB2	Zener Diode	Regulator
XF1001	XF-73KX	Crystal Filter	RX 1st IF Filter TX 2nd IF Filter
TH1001	D22A	Thermistor	Temperature Compensator

LOCAL UNIT

PART NO.	DEVICE	TYPE	FUNCTION				
				D3001	1N60	Ge Diode	RX N.B. Noise Detector
Q3001	2SC945AQ	Transistor	RX N.B. Oscillator				
Q3002	3SK73GR	Dual Gate MOS FET	RX N.B. Mixer	D3002	"	"	"
Q3003	"	"	RX N.B. IF Amplifier	D3003	1SS53	Si Diode	Clipper
Q3004	"	"	"	D3004	1N60	Ge Diode	RX N.B. AGC Detector
Q3005	2SC945AP	Transistor	RX N.B. Buffer Amplifier	D3005	"	"	"
Q3006	2SA733AP	"	RX N.B. Controller	D3006	1SS53	Si Diode	Switch
Q3007	2SC945AP	"	RX N.B. AGC Amplifier	D3007	FC52M5	Varactor Diode	VCXO (for ALL MODES)
Q3008	SN16913P	IC	CARRIER Mixer	D3008	1SS53	Si Diode	Switch
Q3009	2SC945AP	Transistor	CARRIER Buffer Amplifier	D3009	"	"	"
Q3010	MC14066B	IC	MODE Selector	D3010	FC52M5	Varactor Diode	VCXO (for SSB, CW, FSK)
Q3011	2SC945AP	Transistor	"	D3011	1SS53	Si Diode	Switch
Q3012	"	"	"	D3012	"	"	"
Q3013	"	"	VCXO (for ALL MODES)	D3013	1N60	Ge Diode	"
Q3014	"	"	VCXO Buffer Amplifier	D3014	RD9.1EB2	Zener Diode	Regulator
Q3015	"	"	VCXO Frequency Controller	D3015	1N60	Ge Diode	Switch
Q3016	"	"	"	D3016	RD5.1EB2	Zener Diode	Regulator
Q3017	"	"	"	D3017	MV104	Varactor Diode	PLL VCO-1
Q3018	"	"	"	D3018	RD9.1EB2	Zener Diode	Regulator
Q3019	"	"	VCXO (for SSB, CW, FSK)	X3001	9.4425MHz	Crystal	RX N.B. Oscillator
Q3020	"	"	VCXO Buffer Amplifier	X3002	15.5125MHz	"	VCXO (for ALL MODES)
Q3021	2SA733AQ	"	Switch	X3003	24.5MHz	"	VCXO (for SSB, CW, FSK)
Q3022	AN6552	IC	RX Shift, Width Controller				
Q3023	3SK73GR	Dual Gate MOS FET	RX 2nd LOCAL Premixer TX 1st LOCAL Premixer				
Q3024	"	"	"				
Q3025	"	"	RX 2nd LOCAL Amplifier TX 1st LOCAL Amplifier				
Q3026	2SC945AP	Transistor	Regulator				
Q3027	"	"	PLL VCO-1 Reference Amplifier				
Q3028	2SC732TMBL	"	PLL VCO-1 Active L.P.F.				
Q3029	"	"	"				
Q3030	MB8718M	IC	PLL VCO-1 DIV, PH. DET.				
Q3031	2SC945AP	Transistor	PLL VCO-1 IF Amplifier				
Q3032	SN16913P	IC	PLL VCO-1 Mixer				
Q3033	2SK19TMGR	Junction FET	PLL VCO-1 Buffer Amplifier				
Q3034	JF1033S	"	PLL VCO-1				
Q3035	2SK19TMGR	"	PLL VCO-1 Buffer Amplifier				
Q3036	2SC945AP	Transistor	Regulator				

AF UNIT

PART NO.	DEVICE	TYPE	FUNCTION
Q4001	SN16913P	IC	RX Balanced Demodulator
Q4002	MC14016BCP	"	RX Mode Selector
Q4003	MC3403P	"	RX AF Amplifier, Active LPF, HPF
Q4004	"	"	RX APF Amplifier, Notch Filter
Q4005	μPC78L05	"	Regulator
Q4006	AN6552	"	TX VOX Amplifier, AMGC, Amplifier
Q4007	2SC945AP	Transistor	TX AMGC Switch
Q4008	MC14538BCP	IC	TX AMGC, VOX Switch
Q4009	2SC945AP	Transistor	TX VOX Switch
Q4010	"	"	TX ANTI TRIP Amplifier
Q4011	"	"	TX ANTI TRIP Switch
Q4012	"	"	TX BREAK IN Switch
Q4013	MC14081BCP	IC	TX Gate
Q4014	2SC945AP	Transistor	TX AMGC Switch
Q4015	"	"	P.T.T Switch
Q4016	"	"	TX Keying
Q4017	"	"	"
Q4018	"	"	"
Q4019	2SC732TMGR	"	TX MIC Amplifier
Q4020	AN6552	IC	TX AF Active H.P.F
Q4021	2SC945AP	Transistor	TX Side Tone Oscillator
Q4022	"	"	TX Side Tone Switch
Q4023	"	"	TX Side Tone Buffer Amplifier
Q4024	μPC78L08	IC	Regulator
Q4025	"	"	"
Q4026	2SC945AP	Transistor	TX Side Tone Switch
Q4027	"	"	TX Monitor Switch
Q4028	μPC2002H	IC	RX Audio Amplifier
Q4029	2SC945AP	Transistor	TX CW Driver Controller
Q4030	"	"	TX CW Driver Buffer Amplifier
Q4031	MC1496CP	IC	TX Balanced Modulator
Q4032	2SC945AP	Transistor	TX Buffer Amplifier
Q4033	MC1496CP	IC	TX AM Modulator
Q4034	2SC945AP	Transistor	TX Drive Controller
Q4035	"	"	TX Buffer Amplifier
Q4036	TA7060AP	IC	TX AF Limiter Amplifier
Q4037	2SC945AP	Transistor	TX AF Buffer Amplifier
D4001	1SS53	Si Diode	Switch
{	}	}	}
D4005	1SS53	Si Diode	Switch
D4006	1N60	Ge Diode	"
D4007	1SS53	Si Diode	"
{	}	}	}
D4017	1SS53	Si Diode	Switch

D4018	RD5.1EB2	Zener Diode	Regulator
D4019	1SS53	Si Diode	Switch
D4020	RD8.2EB3	Zener Diode	Regulator
D4021	RD4.7EB2	"	Switch
D4022	1SS53	Si Diode	"
D4023	"	"	"
D4024	"	"	"
D4025	"	"	"
D4026	"	"	"
XF4001	XF-8.9KP	Crystal Filter	TX SSB Filter
TH4001	SDT-1000	Thermistor	Temperature Compensator
TH4002	"	"	"

CONTROL UNIT

PART NO.	DEVICE	TYPE	FUNCTION
Q5001	2SC1317R	Transistor	BPF Selector
Q5002	2SA733AQ	"	"
Q5003	2SC1317R	"	"
Q5004	2SA733AQ	"	"
Q5005	2SC1317R	"	"
Q5006	2SA733AQ	"	"
Q5007	2SC1317R	"	"
Q5008	2SA733AQ	"	"
Q5009	2SC1317R	"	"
Q5010	2SA733AQ	"	"
Q5011	2SC1317R	"	"
Q5012	2SA733AQ	"	"
Q5013	2SC1317R	"	"
Q5014	2SA733AQ	"	"
Q5015	2SC1317R	"	"
Q5016	2SA733AQ	"	"
Q5017	2SC1317R	"	"
Q5018	2SA733AQ	"	"
Q5019	2SC1317R	"	"
Q5020	2SA733AQ	"	"
Q5021	TBP18SA030	IC	ROM
Q5022	"	"	"
Q5023	"	"	"
Q5024	SN7406N	"	VCO Selector Driver Amplifier
Q5025	MC14011BCP	"	BPF Selector
Q5026	"	"	TX Disable Switch
Q5027	2SC1317R	Transistor	Regulator
Q5028	"	"	"
Q5029	2SD288K	"	"
Q5030	2SC1317R	"	"
Q5031	MC14081BCP	IC	Scan Controller
Q5032	2SC945AP	Transistor	Unlock Signal Amplifier
Q5033	"	"	Power Down Switch
Q5034	MC14066BCP	IC	Switch
Q5035	2SA733AQ	Transistor	VCO Selector
Q5036	"	"	"
Q5037	"	"	"
Q5038	"	"	"
Q5039	"	"	"
Q5040	"	"	"
Q5041	2SC1317R	"	Regulator
Q5042	MN1201A	IC	Latch
Q5043	"	"	"
Q5044	"	"	"

Q	MC			PLL UNIT			
				PART NO.	DEVICE	TYPE	FUNCTION
Q5045	MC14081BCP	"	Gate				
Q5046	"	"	"				
Q5047	MC14069BCP	"	10Hz/100Hz Counter				
Q5048	MC14001BCP	"	"	Q6001	2SC1923-O	Transistor	PLL VCO-4-6
Q5049	MC14510BCP	"	"	Q6002	"	"	PLL VCO-4-5
Q5050	MC14012BCP	"	"	Q6003	"	"	PLL VCO-4-4
Q5051	MC14069UBCP	"	"	Q6004	"	"	PLL VCO-4-1
Q5052	MC14013BCP	"	"	Q6005	"	"	PLL VCO-4-2
Q5053	MN9005	"	CPU	Q6006	"	"	PLL VCO-4-3
Q5054	2SC945AP	Transistor	LED Driver	Q6007	2SC2026	"	PLL VCO-4 Buffer Amplifier
Q5055	"	"	"				
Q5056	"	"	"	Q6008	2SC1923-O	"	"
Q5057	"	"	"	Q6009	3SK74L	Dual Gate	"
Q5058	"	"	"			MOS FET	
Q5059	MC14066BCP	IC	Switch	Q6010	2SD882Q	Transistor	Regulator
Q5060	MC14001BCP	"	"	Q6011	SN74S113	IC	PLL Programmable Divider
Q5061	2SC945AP	Transistor	"				
Q5062	2SC1317R	"	LED Digit Driver	Q6012	SN74S11	"	"
{	{	{	{	Q6013	SN74LS196	"	"
Q5071	2SC1317R	Transistor	LED Digit Driver	Q6014	TBP18SA030	"	PLL ROM
Q5072	2SA719R	"	LED Segment Driver	Q6015	SN74LS196	"	PLL Programmable Divider
{	{	{	{	Q6016	2SK206-3	Junction FET	PLL Mixer
Q5079	2SA719R	Transistor	LED Segment Driver	Q6017	"	"	"
				Q6018	2SC1923-O	Transistor	PLL Buffer Amplifier
D5001	1SS53	Si Diode	Switch	Q6019	2SC2026	"	PLL IF Amplifier
{	{	{	{	Q6020	2SC1923-O	"	PLL Buffer Amplifier
D5007	1SS53	Si Diode	Switch	Q6021	2SC2407	"	"
D5008	RD5.6EB3	Zener Diode	Regulator	Q6022	MC4044P	IC	PLL Phase Detector
D5009	"	"	"	Q6023	2SC732TMBL	Transistor	PLL Active LPF
D5010	"	"	"	Q6024	"	"	"
D5011	"	"	"	Q6025	"	"	"
D5012	1SS53	Si Diode	Switch	Q6026	2SC945AQ	"	PLL Reference Amplifier
D5013	"	"	"				
D5014	"	"	"	Q6027	"	"	PLL VCO-3 Buffer Amplifier
D5015	RD5.6EB3	Zener Diode	"				
D5016	1SS53	Si Diode	"	Q6028	3SK74L	Dual Gate	PLL VCO-3 Amplifier
D5017	"	"	"			MOS FET	
D5018	"	"	"	Q6029	2SC1923-O	Transistor	PLL VCO-3
D5019	"	"	"	Q6030	2SC945AQ	"	Regulator
D5020	RD9.1EB2	Zener Diode	Regulator	Q6031	2SC1959Y	"	"
D5021	1SS53	Si Diode	Switch	Q6032	2SC1923-O	"	PLL VCO-1 Amplifier
D5022	"	"	"				
D5023	"	"	"	Q6033	SN74LS390	IC	PLL VCO-1 1/100 Divider
D5024	"	"	"				
D5025	1N60	Ge Diode	"	Q6034	MC4044P	"	PLL Phase Detector
D5026	1SS53	Si Diode	"	Q6035	SN74LS26	"	PLL Inverter
D5027	"	"	"	Q6036	MC14066BCP	"	PLL Switch
D5028	"	"	"	Q6037	2SC945AQ	Transistor	PLL Buffer Amplifier
D5029	"	"	"				
D5030	"	"	"	Q6038	SN16913P	IC	PLL Mixer
D5031	RD5.6EB3	Zener Diode	Regulator	Q6039	2SC945AQ	Transistor	PLL Buffer Amplifier
D5032	1SS53	Si Diode	Switch				
{	{	{	{	Q6040	2SC1959Y	"	Regulator
D5053	1SS53	Si Diode	Switch	Q6041	2SC535B	"	PLL Local Oscillator
D5054	Not Used			Q6042	2SC945AQ	"	PLL Local Buffer Amplifier
D5055	RD5.6EB	Zener Diode	Regulator	Q6043	SN76514N	IC	PLL Mixer
D5056	1SS53	Si Diode	Switch	Q6044	2SC945AQ	Transistor	PLL Local Buffer Amplifier
D5057	"	"	"				
D5058	RD3.3EB2	Zener Diode	"	Q6045	2SC1959Y	"	Regulator
				Q6046	2SC732TMBL	"	PLL Active LPF
				Q6047	MPS-A13	"	"
				Q6048	2SC1923-O	"	PLL VCO-2

REG.	UNIT						
		PART NO.	DEVICE	TYPE	FUNCTION		
Q6049	2SK19TMGR	Junction FET	PLL VCO-2 Buffer Amplifier				
Q6050	2SC945AQ	Transistor	"				
Q6051	2SC535B	"	PLL Local Oscillator				
Q6052	2SC945AQ	"	PLL Local Buffer Amplifier	Q7001	2SA733AQ	Transistor	Switch
				Q7002	2SD882Q	"	Regulator
Q6053	SN16913P	IC	PLL Mixer	Q7003	2SC945AQ	"	Switch Driver
Q6054	2SC945AQ	Transistor	PLL IF Amplifier	Q7004	2SC2562Y	"	Regulator
Q6055	MB8718B	IC	PLL Divider, Phase Detector	Q7005	2SC945AQ	"	"
				Q7006	2SB536A	"	"
Q6056	2SC945AQ	Transistor	PLL Reference Amplifier	Q7007	2SC945AQ	"	Switch
				Q7008	"	"	Error Amplifier
Q6057	"	"	Regulator	Q7009	"	"	"
Q6058	2SC1959Y	"	"	Q7010	78L08	IC	Regulator
Q6059	MC14518B	IC	PLL Reference 1/100 Divider	Q7011	2SC945AQ	Transistor	Switch
				Q7012	"	"	"
Q6060	HD10551	"	PLL Reference 1/20 Divider	Q7013	MC14071B	IC	Delay Amplifier, Buffer Amp.
Q6061	JF1033B	Junction FET	PLL Reference Buffer Amplifier	Q7014	MC14069B	"	Delay Amplifier
				Q7015	2SA733AQ	Transistor	Switch
Q6062	2SC535B	Transistor	PLL Reference Oscillator	Q7016	"	"	"
				Q7017	2SC945AQ	"	Switch Driver
Q6063	JF1033B	Junction FET	PLL Reference Buffer Amplifier	Q7018	"	"	"
				Q7019	2SB772Q	"	Switch
Q6064	2SC945AQ	Transistor	Regulator	Q7020	2SA733AQ	"	"
Q6065	2SC1959Y	"	"	Q7021	2SC945AQ	"	Switch Driver
D6001	1T25	Varactor Diode	PLL VCO-4-6	Q7022	2SB536K	"	Switch
				Q7023	2SC2002L	"	DC-DC Converter
D6002	"	"	"	Q7024	μPC7908	IC	Regulator
D6003	1SS53	Si Diode	Switch	Q7025	2SA733AQ	Transistor	Relay Driver
D6004	1T25	Varactor Diode	PLL VCO-4-5	Q7026	2SA719Q	"	"
				Q7027	78L05	IC	Regulator
D6005	"	"	"				
D6006	1SS53	Si Diode	Switch	D7001	S2VB10	Si Diode	Rectifier
D6007	1T25	Varactor Diode	PLL VCO-4-4			Bridge	
				D7002	V06B	Si Diode	Switch
D6008	1SS53	Si Diode	Switch	D7003	RD9.1EB2	Zener Diode	Regulator
D6009	1T25	Varactor Diode	PLL VCO-4-1	D7004	V06B	Si Diode	Switch
				D7005	RD9.1EB2	Zener Diode	Regulator
D6010	1SS53	Si Diode	Switch	D7006	RD10EB1	"	"
D6011	1T25	Varactor Diode	PLL VCO-4-2	D7007	1SS53	Si Diode	Switch
				D7008	"	"	"
D6012	1SS53	Si Diode	Switch	D7009	"	"	"
D6013	1T25	Varactor Diode	PLL VCO-4-3	D7010	"	"	"
				D7011	"	"	"
D6014	1SS53	Si Diode	Switch	D7012	"	"	"
D6015	RD9.1EB2	Zener Diode	Regulator	D7013	"	"	"
D6016	RD5.6EB3	"	"	D7014	"	"	"
D6017	1SS97	Schottky Barrier Di.	Switch	D7015	"	"	"
				D7016	"	"	Rectifier
D6018	RD9.1EB2	Zener Diode	Regulator	D7017	RD12EB2	Zener Diode	Regulator
D6019	1T25	Varactor Diode	PLL VCO-3	D7018	1SS53	Si Diode	Reverse Voltage Protector
D6020	"	"	"	D7019	"	"	"
D6021	1SS53	Si Diode	Switch				
D6022	RD5.6EB3	Zener Diode	Regulator				
D6023	1N60	Ge Diode	Switch				
D6024	RD9.1EB2	Zener Diode	Regulator				
D6025	"	"	"				
D6026	"	"	"				
D6027	MV104	Varactor Diode	PLL VCO-2				
D6028	1T25	"	D/F Converter				
D6029	RD5.6EB3	Zener Diode	Regulator				
D6030	"	"	"				
X6001	48.615MHz	Crystal	PLL Local Oscillator				
X6002	54.28MHz	"	"				
X6003	20MHz	"	PLL Reference Oscillator				

ALC UNIT

PART NO.	DEVICE	TYPE	FUNCTION
Q7101	2SA733AP	Transistor	TX ALC Amplifier
Q7102	"	"	"
Q7103	2SC945AP	"	"
Q7104	2SK19TMGR	Junction FET	TX ALC Meter Amplifier
Q7105	2SA733AP	Transistor	"
D7101	1SS97	Schottky Barrier Di.	TX REF. Voltage Detector
D7102	"	"	TX ALC Voltage Detector
D7103	"	"	"
D7104	"	"	TX FWD. Voltage Detector
D7105	1SS53	Si Diode	Temperature Compensator
D7106	"	"	"
D7107	"	"	"
D7108	"	"	Reverse Voltage Protector
D7109	RD6.2EB3	Zener Diode	ALC Amplifier Voltage Protector

L.P.F UNIT

PART NO.	DEVICE	TYPE	FUNCTION
D7201	1SS53	Si Diode	Reverse Voltage Protector
D7218	1SS53	Si Diode	Switch

DISPLAY UNIT

PART NO.	DEVICE	TYPE	FUNCTION
D7701	HD5082-7623	Display LED	Frequency Display
D7702	"	"	"
D7703	"	"	"
D7704	"	"	"
D7705	"	"	"
D7706	"	"	"
D7707	HD5082-7415	"	Clarifier Frequency, VFO Channel Display
D7708	LN410YP	LED	Dial Lock Indicator
D7709	"	"	TX Disable Indicator
D7710	"	"	TRX Clarifier Indicator
D7711	"	"	Transceive Indicator
D7712	"	"	RX Clarifier Indicator
D7713	"	"	Processor Indicator
D7714	"	"	N.B. Indicator
D7715	"	"	AMGC Indicator
D7716	"	"	Monitor Indicator
D7717	"	"	Audio Peak Filter Indicator
D7718	"	"	Notch Filter Indicator
D7719	"	"	Auto Scan Indicator

POWER AMP UNIT

PART NO.	DEVICE	TYPE	FUNCTION
Q8001	2SC1589	Transistor	TX Driver Amplifier
Q8002	2SC2395	"	"
Q8003	"	"	"
Q8004	2SC2290	"	TX Final Amplifier
Q8005	"	"	"
Q8006	μPC14308	IC	Regulator
Q8007	2SD235Y	Transistor	"
D8001	YZ-033	Zener Diode	Regulator
D8002	10D10	Si Diode	Temperature Compensator
D8003	"	"	"
D8004	"	"	"
D8005	"	"	"

IF UNIT

PART NO.	DEVICE	TYPE	FUNCTION
Q9001	3SK73GR	Dual Gate MOS FET	RX 2nd Mixer
Q9002	"	"	"
Q9003	"	"	RX N.B. Gate
Q9004	2SK61GR	Junction FET	RX N.B. Amplifier
Q9005	2SC945AP	Transistor	RX N.B. Controller
Q9006	"	"	RX FM Buffer Amplifier
Q9007	"	"	RX CW(N) Buffer Amplifier
Q9008	3SK73GR	Dual Gate MOS FET	RX 2nd IF Amplifier
Q9009	"	"	RX Width First Mixer
Q9010	2SK19TMY	Junction FET	RX Width Second Mixer
Q9011	"	"	"
Q9012	2SC1923-O	Transistor	RX Width Buffer Amplifier
Q9013	2SC945AP	"	RX Width VCXO
Q9014	2SC1923-O	"	RX Width Buffer Amplifier
Q9015	3SK73GR	Dual Gate MOS FET	RX 2nd IF Amplifier
Q9016	"	"	"
Q9017	"	"	"
Q9018	2SC945AP	Transistor	RX Buffer Amplifier
Q9019	"	"	"
Q9020	"	"	RX AM AF Amplifier
Q9021	"	"	RX AGC OFF Switch
Q9022	"	"	RX AGC Amplifier
Q9023	"	"	RX AGC Switch
Q9024	"	"	"
Q9025	MC3403P	IC	RX AGC DC Amplifier
Q9026	2SA733Q	Transistor	RX S-Meter Amplifier
Q9027	"	"	RX IF AGC Buffer Amplifier
Q9028	2SC945AP	"	RX RF AGC Amplifier

Q9029	3SK73GR	Dual Gate MOS FET	TX IF Amplifier
Q9030	TA7060AP	IC	TX RF Speech Processor Amplifier
Q9031	2SC945AP	Transistor	TX COMP. M Driver Amplifier
Q9032	3SK73GR	Dual Gate MOS FET	TX IF Amplifier
Q9033	2SC945AP	Transistor	TX Driver Controller
Q9034	3SK73GR	Dual Gate MOS FET	TX IF Amplifier
Q9035	"	"	TX 1st Mixer
Q9036	"	"	"

KEYER UNIT

PART NO.	DEVICE	TYPE	FUNCTION
Q2701	8044	IC	Electronic Keyer Utilize IC
Q2702	2SC1815Y	Transistor	Switch
D2701	1N60	Ge Diode	Switch
D2702	"	"	"
D2703	"	"	"
D2704	"	"	"
D2705	"	"	"
D2706	"	"	"

D9001	RD9.1EB3	Zener Diode	Regulator
D9002	1SS53	Si Diode	Switch
D9023	1SS53	Si Diode	Switch
D9024	1S1658	Varactor Diode	RX Width VCXO
D9033	1SS53	Si Diode	Switch
D9034	1N60	Ge Diode	RX AM Detector
D9035	"	"	"
D9036	"	"	Temperature Compensator

RAM BOARD UNIT

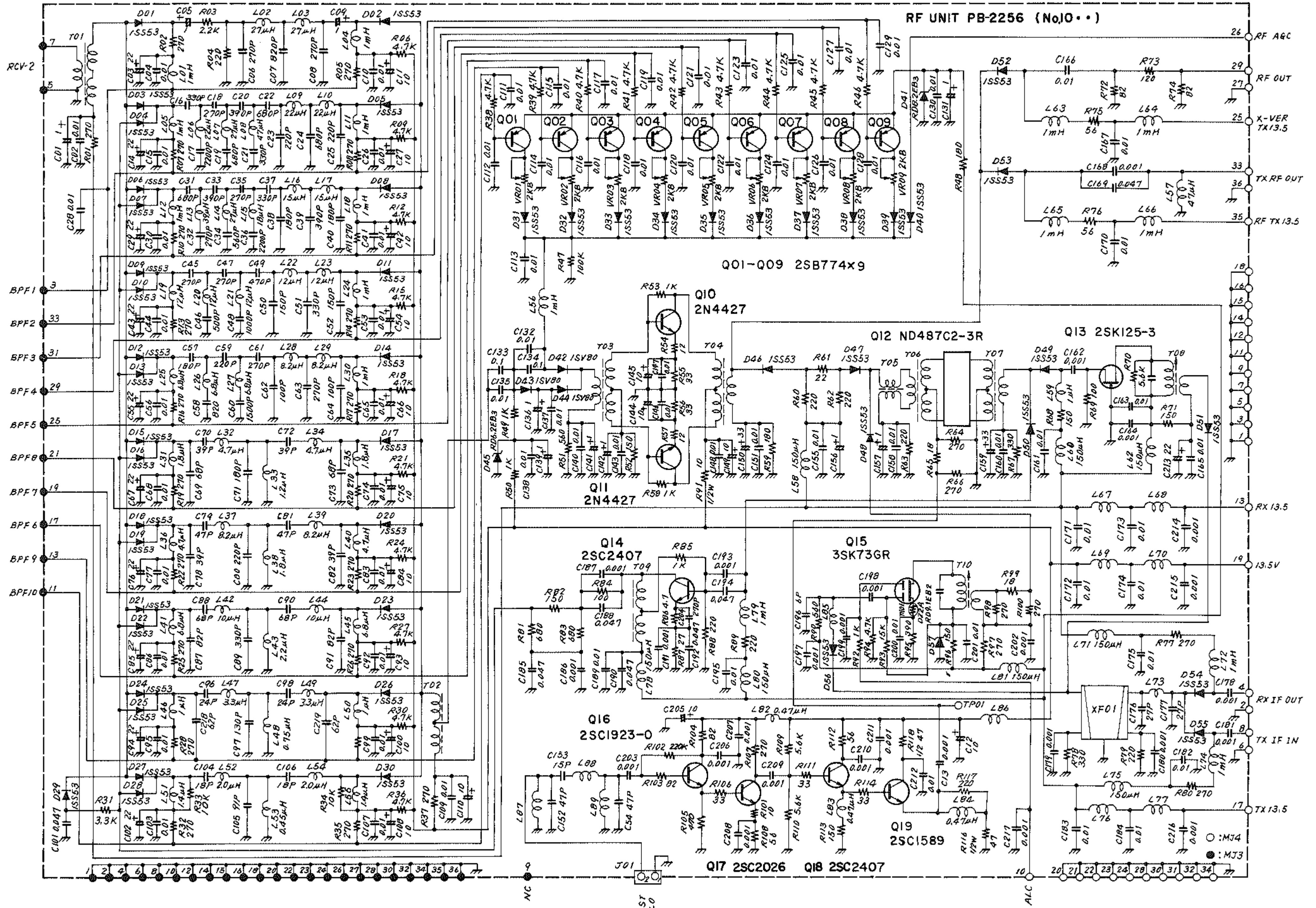
PART NO.	DEVICE	TYPE	FUNCTION
Q7901	MN1203	IC	RAM
Q7902	"	"	"
D7901	1SS53	Si Diode	Switch

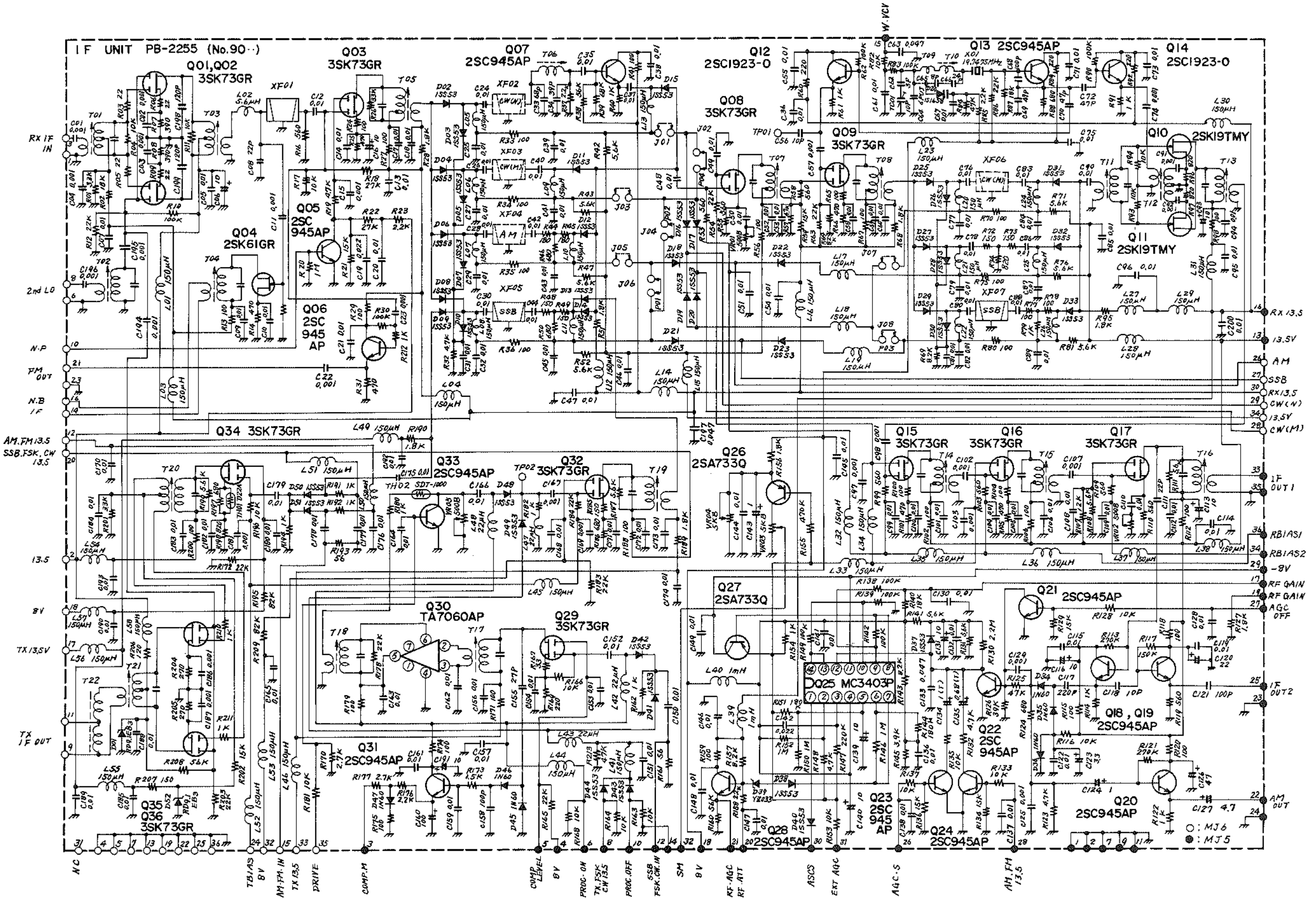
D9037	1SS53	Si Diode	Discharge Diode
D9038	"	"	Switch
D9039	YZ033	Zener Diode	Regulator
D9040	1SS53	Si Diode	Switch
D9044	1SS53	Si Diode	Switch
D9045	1N60	Ge Diode	COMP. M Detector
D9046	"	"	"
D9047	"	"	Logarithmic Compensator
D9048	1SS53	Si Diode	Switch
D9049	"	"	"
D9050	"	"	"
D9051	"	"	"
D9052	RD9.1EB3	Zener Diode	Regulator

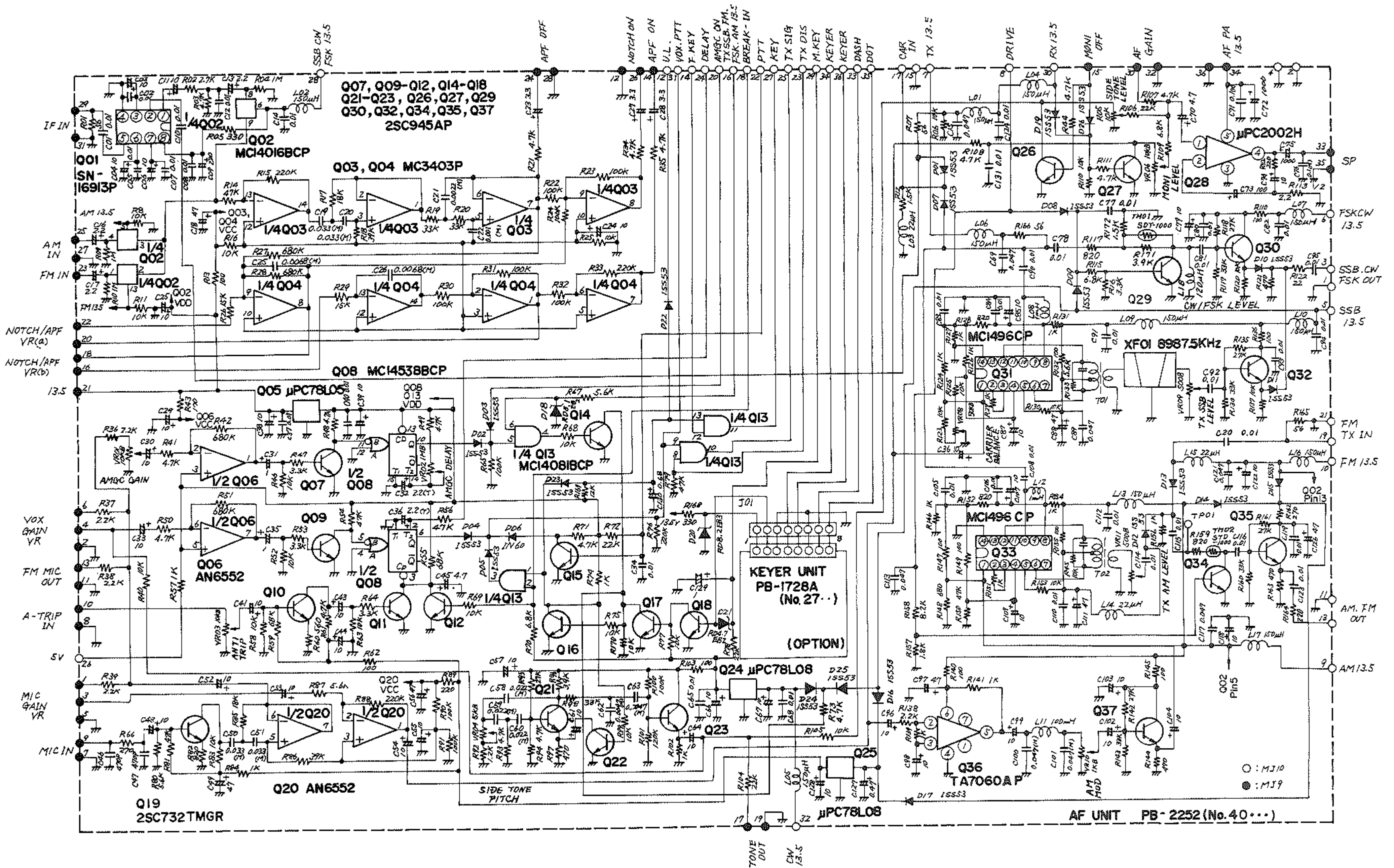
FM UNIT

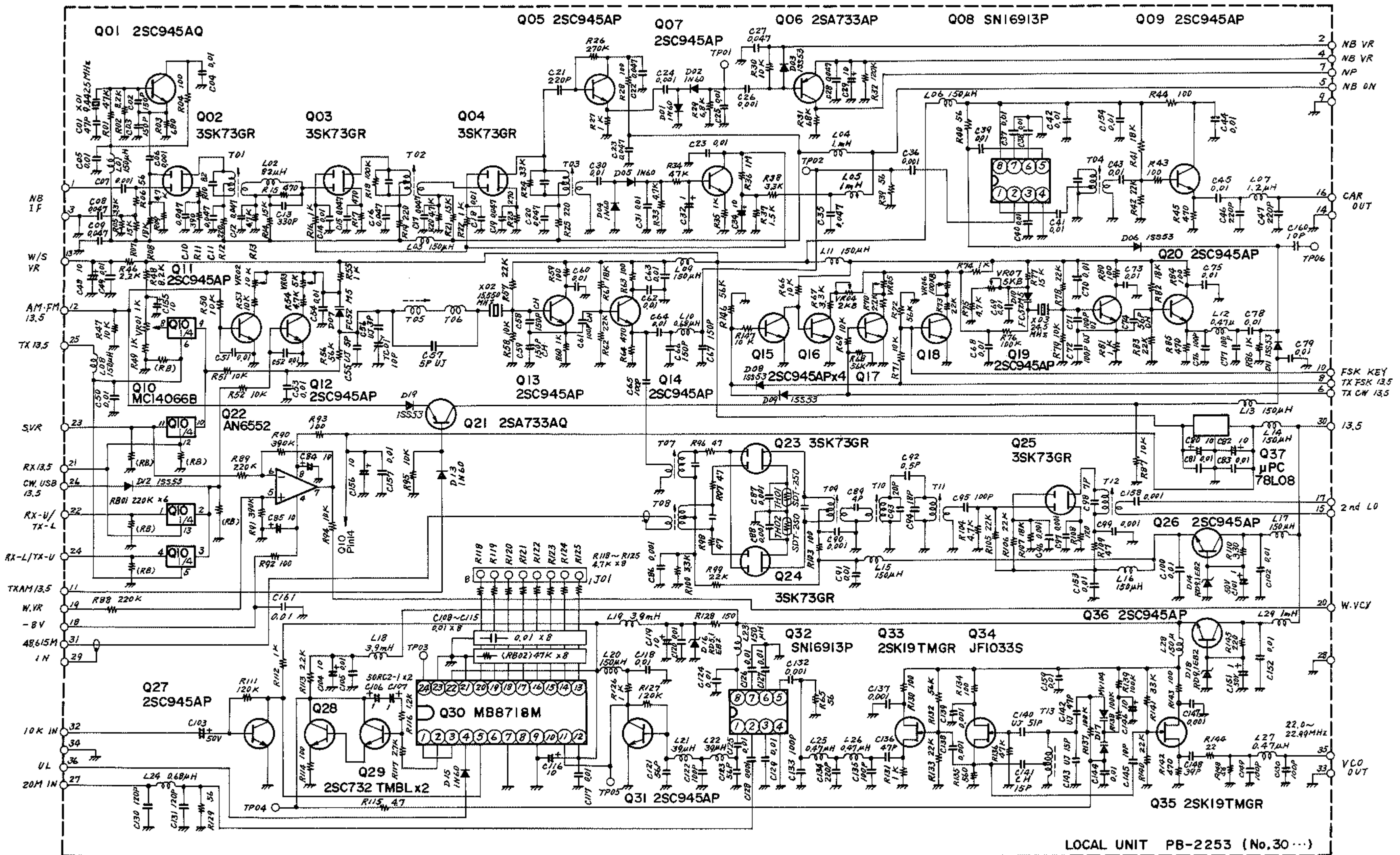
PART NO.	DEVICE	TYPE	FUNCTION
Q2101	2SC1674L	Transistor	IF Amplifier
Q2102	2SK19TMGR	Junction FET	FM Mixer
Q2103	2SC945AP	Transistor	Limiter Amplifier
Q2104	μPC577H	IC	"
Q2105	2SC945AP	Transistor	FM Local Oscillator
Q2106	2SC1959Y	"	Regulator
Q2107	2SC945AP	"	"
Q2108	2SC945AQ	"	Noise Amplifier
Q2109	AN6552	IC	Noise/Center Meter Amplifier
Q2110	2SC945AP	Transistor	Squelch Switch
Q2111	"	"	AF Buffer Amplifier
Q2112	"	"	MIC Amplifier
Q2113	"	"	"
Q2114	"	"	Active L.P.F.
Q2115	"	"	MIC Amplifier
Q2116	"	"	Oscillator
Q2117	"	"	Buffer Amplifier
Q2118	μPC78L08	IC	Regulator
D2101	1S188FM	Ge Diode	Discriminator
D2102	"	"	"
D2103	RD9.1EB2	Zener Diode	Regulator
D2104	RD8.2EB3	"	"
D2105	1S188FM	Ge Diode	Noise Detector
D2106	"	"	"
D2107	1SS53	Si Diode	IDC
D2108	"	"	"
D2109	FC63	Varactor Diode	Modulator

X9001	19.7475MHz	Crystal	RX Width VCXO
XF9001	XF-8.9JF	Crystal Filter	RX 2nd IF Filter (for N.B, FM)
XF9002	XF-8.9KCN	"	RX 3rd IF Filter (for CW(N), Option)
XF9003	XF-8.9KC	"	" (for CW(M), Option)
XF9004	XF-8.9KA	"	" (for AM, Option)
XF9005	XF-8.9KS	"	" (for SSB)
XF9006	XF-10.7KC	"	RX Width Filter (for CW(M), Option)
XF9007	XF-10.7KS	"	" (for SSB)
TH9001	D22A	Thermistor	Temperature Compensator
TH9002	SDT-1000	"	"

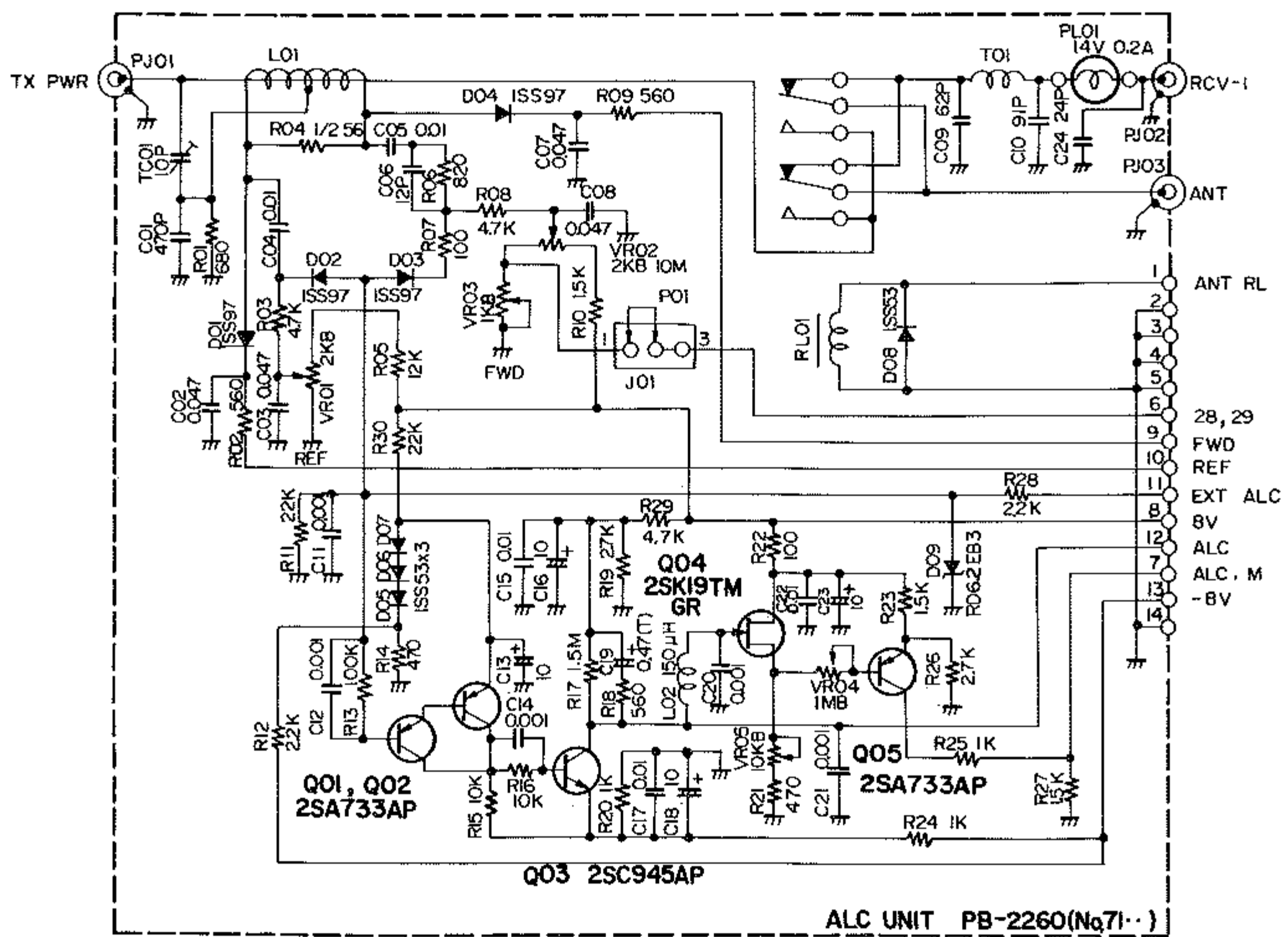
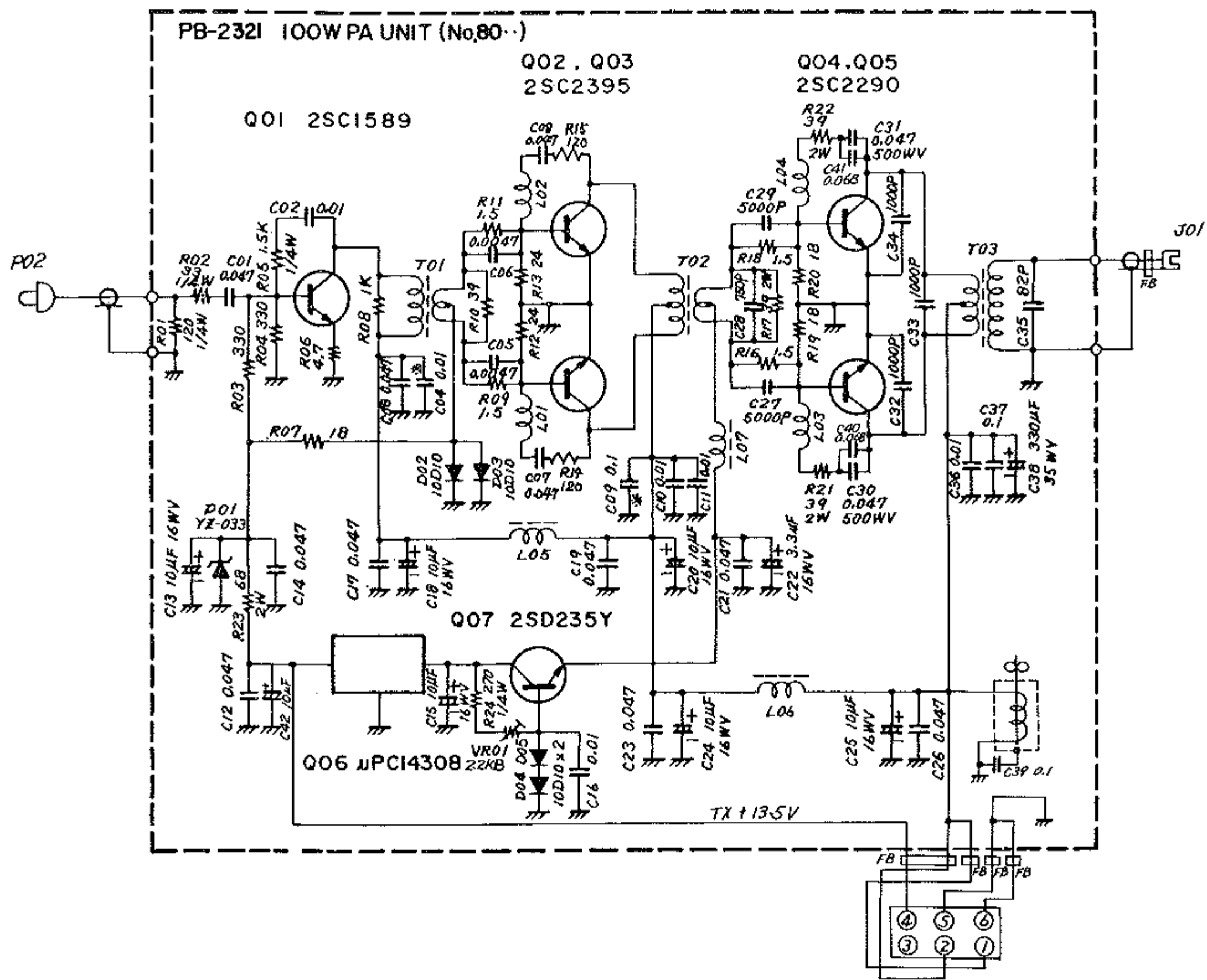


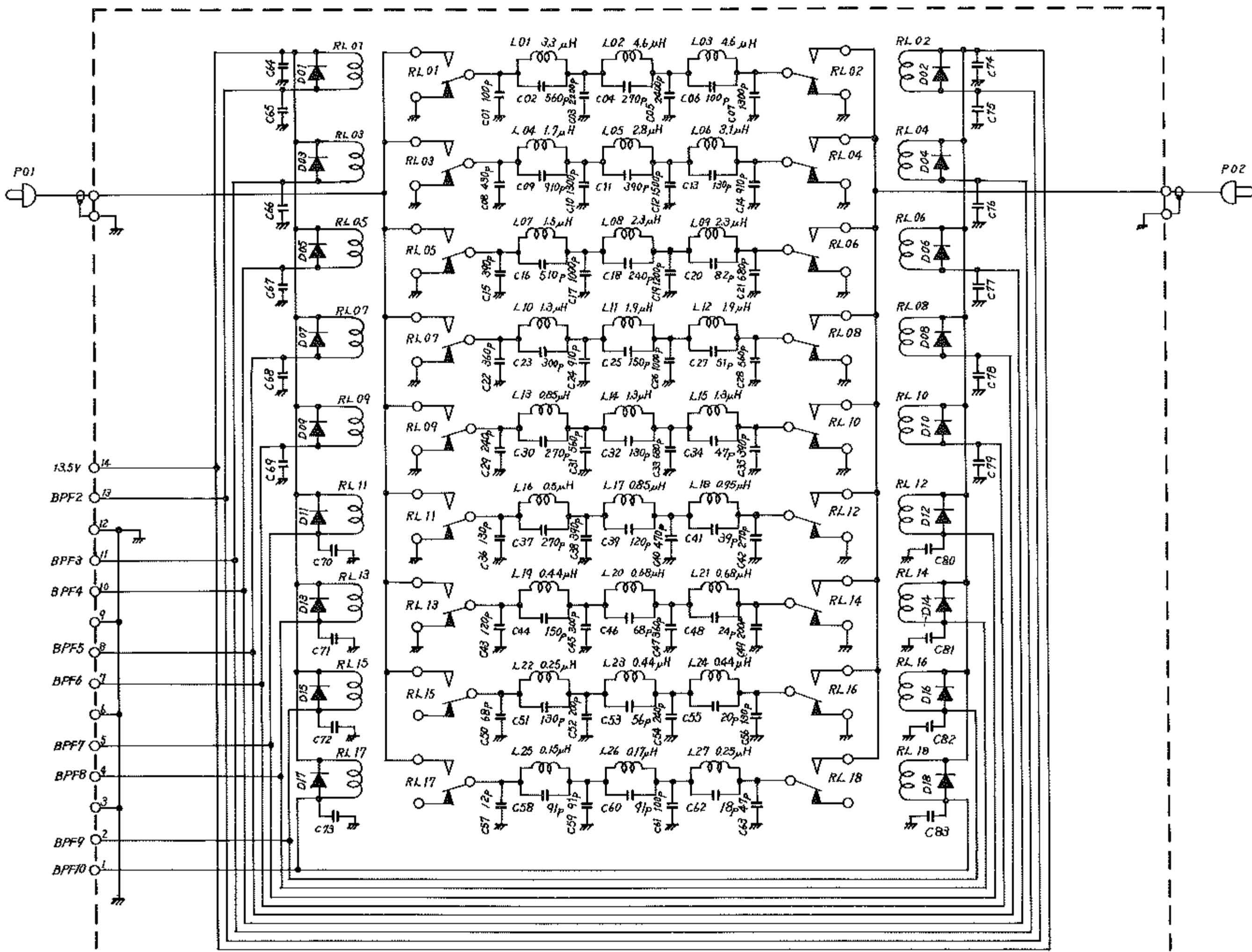






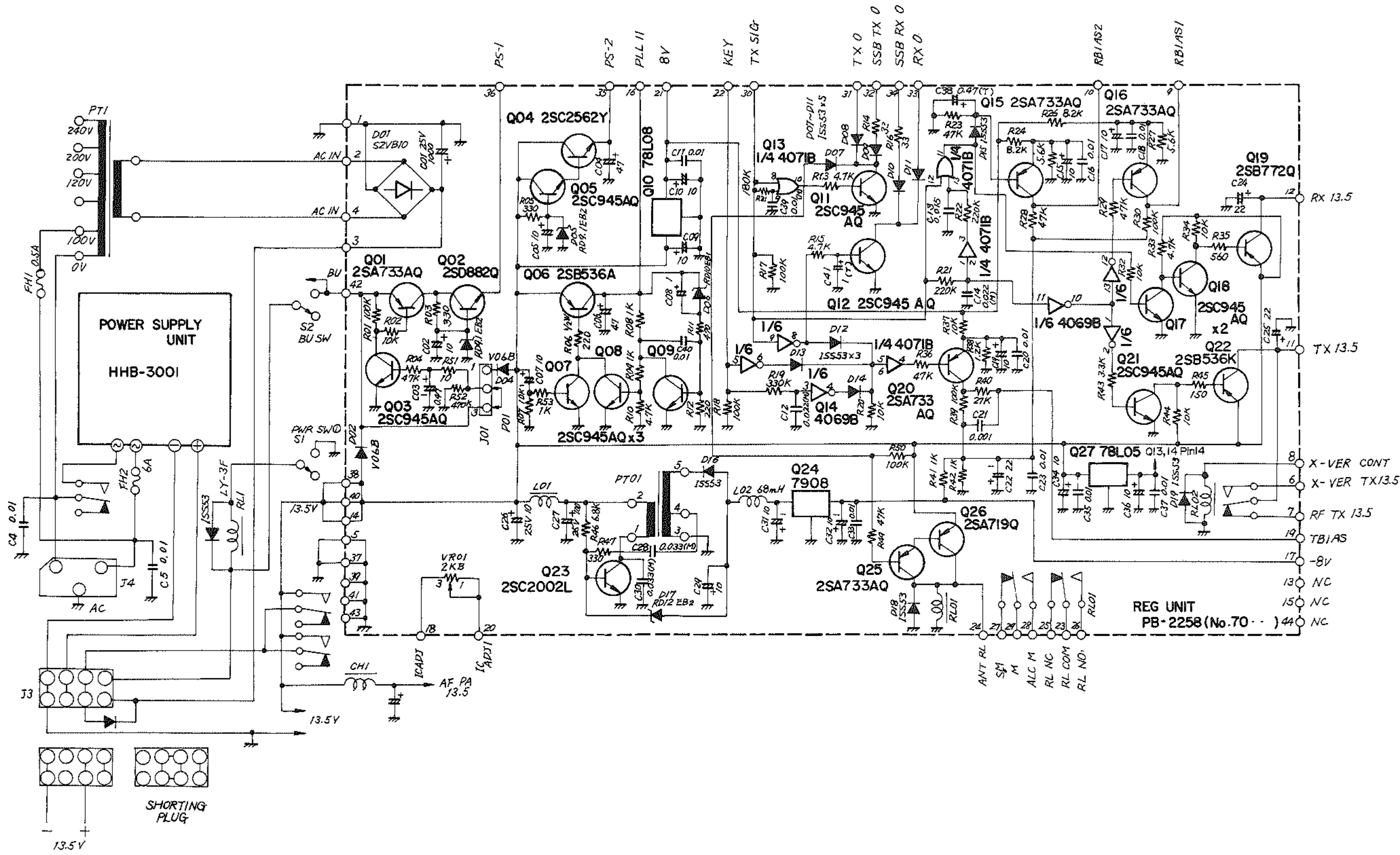
LOCAL UNIT PB-2253 (No. 30...)

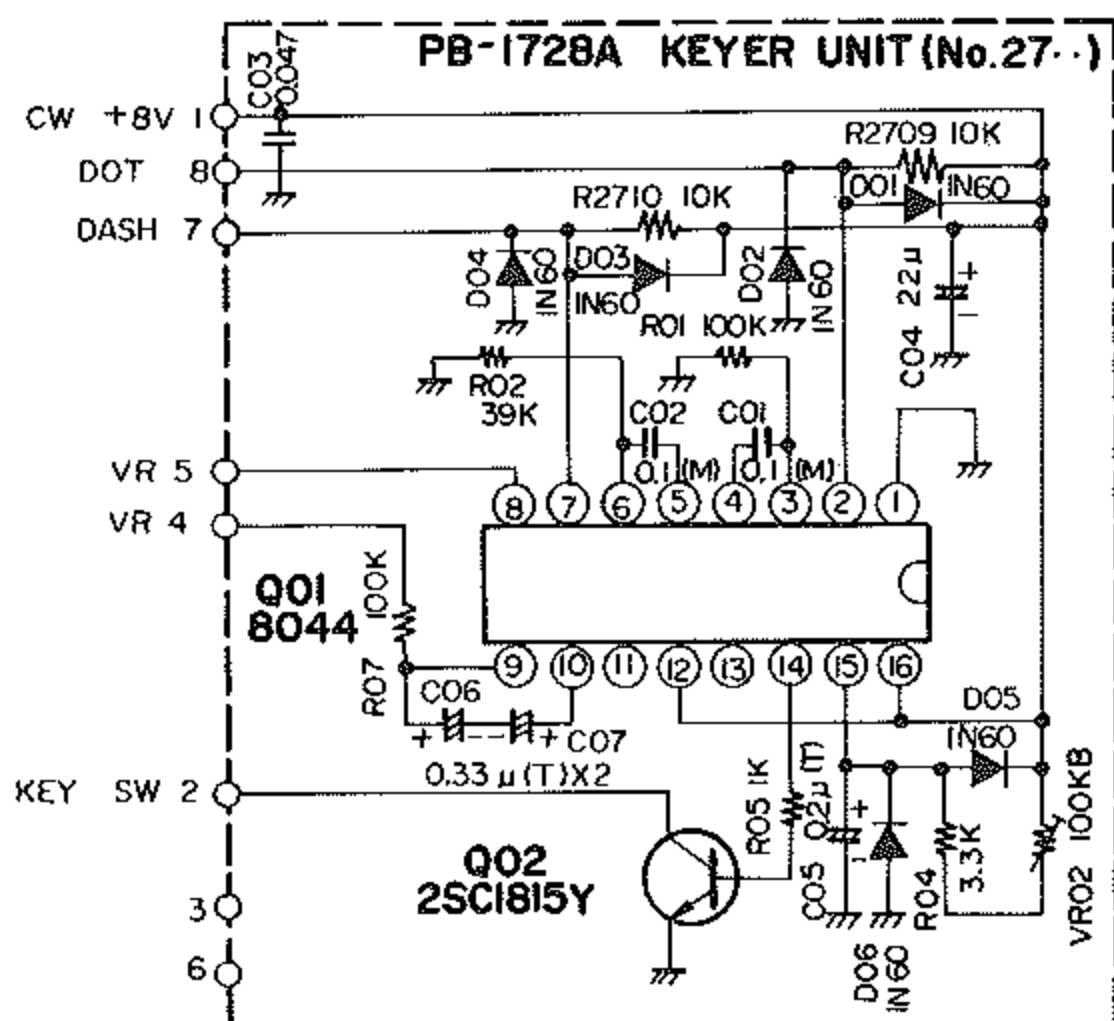
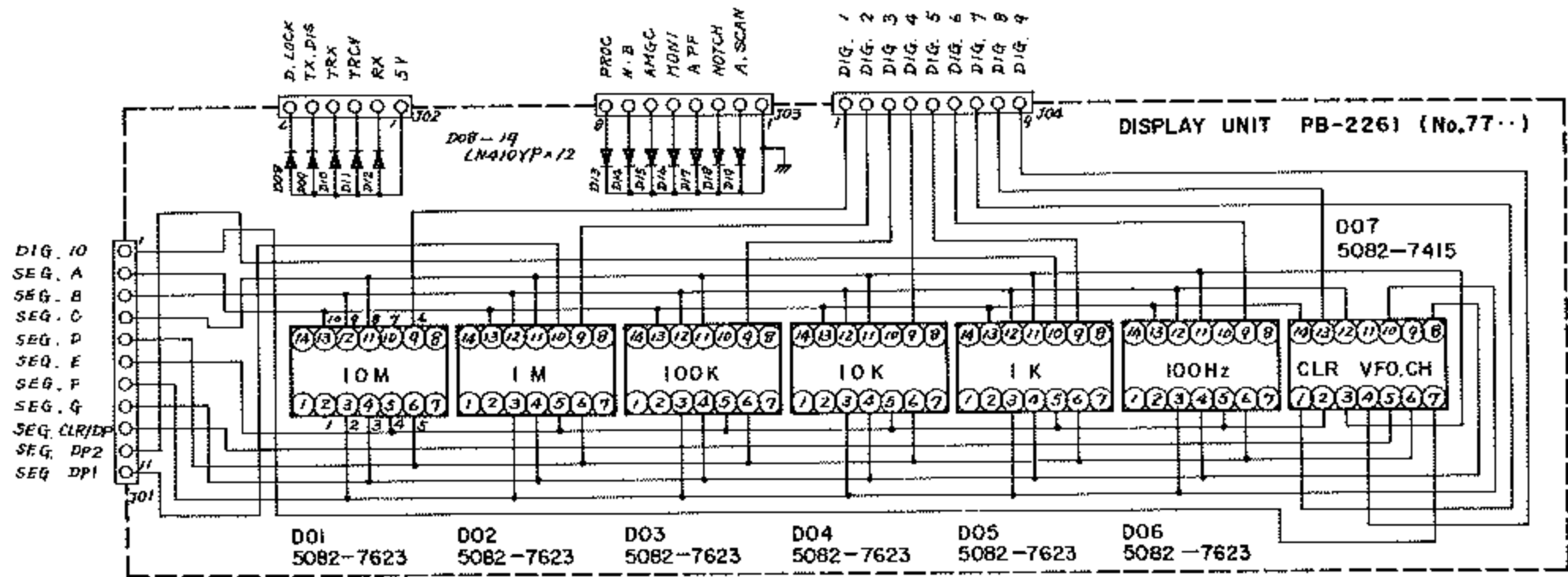
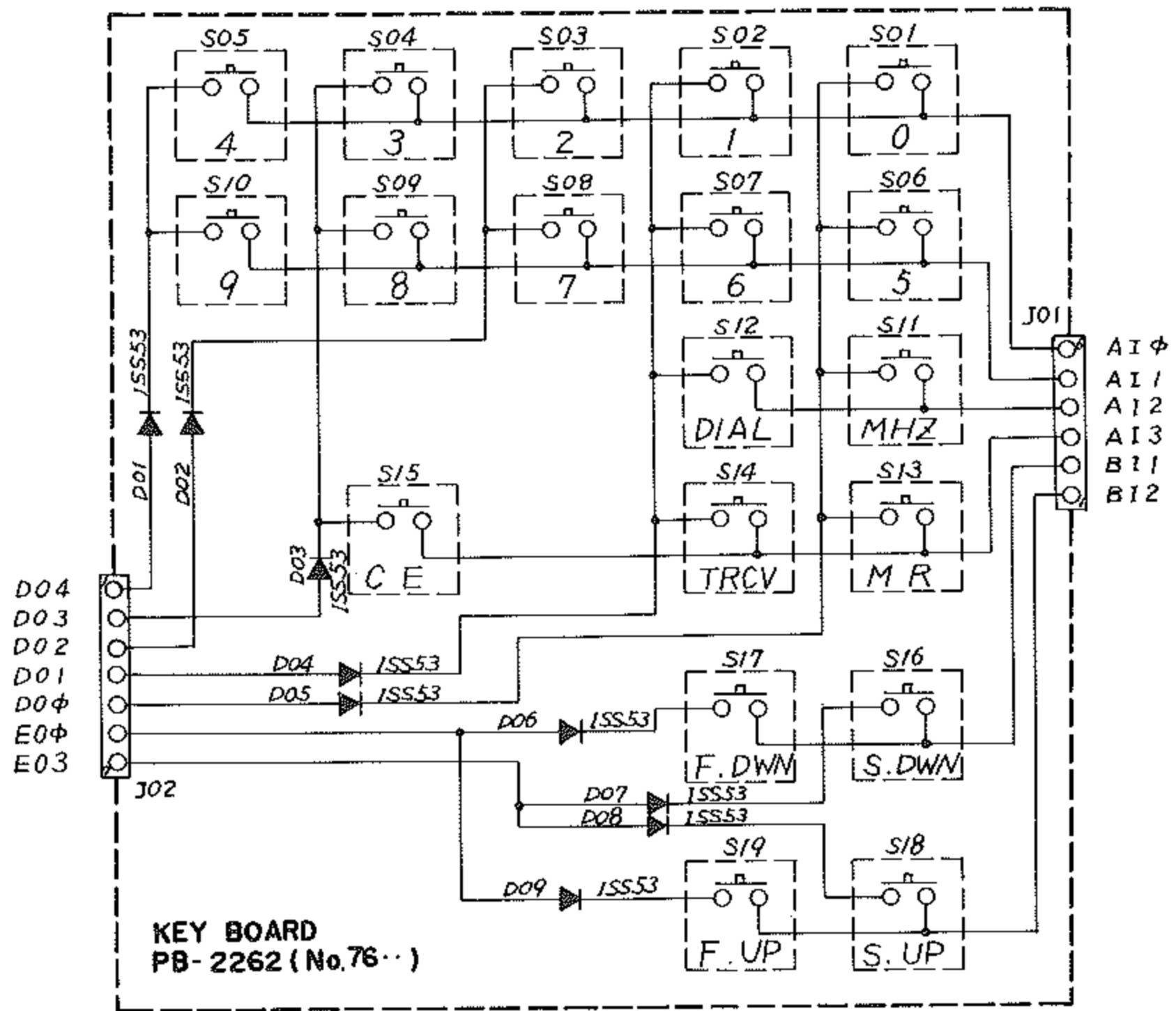




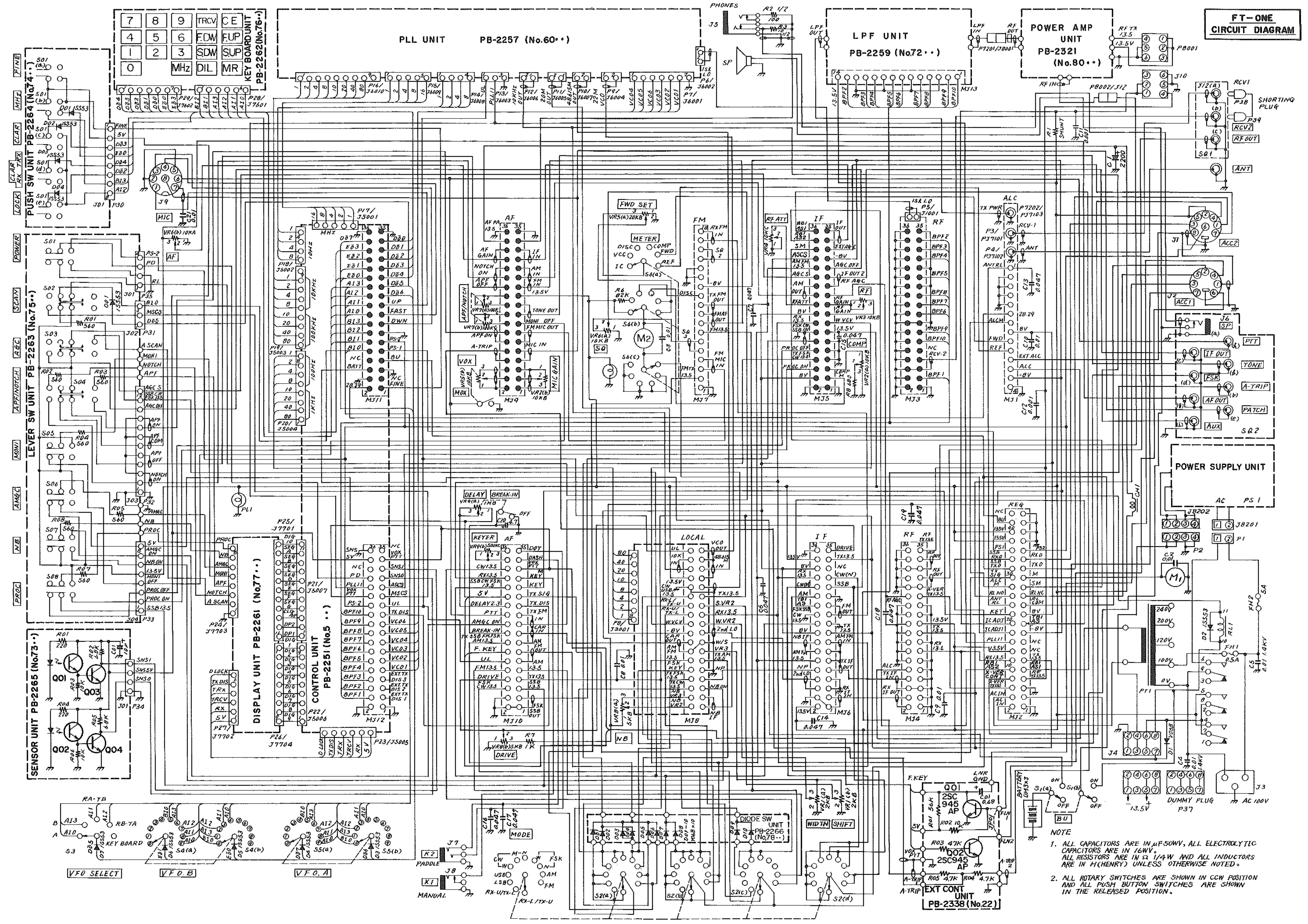
D10 - D18 1SS53 x 18
 RL01 - RL18 G2E x 18
 C64 - C83 0.047 x 20

LPF UNIT PB-2259 (No. 72)



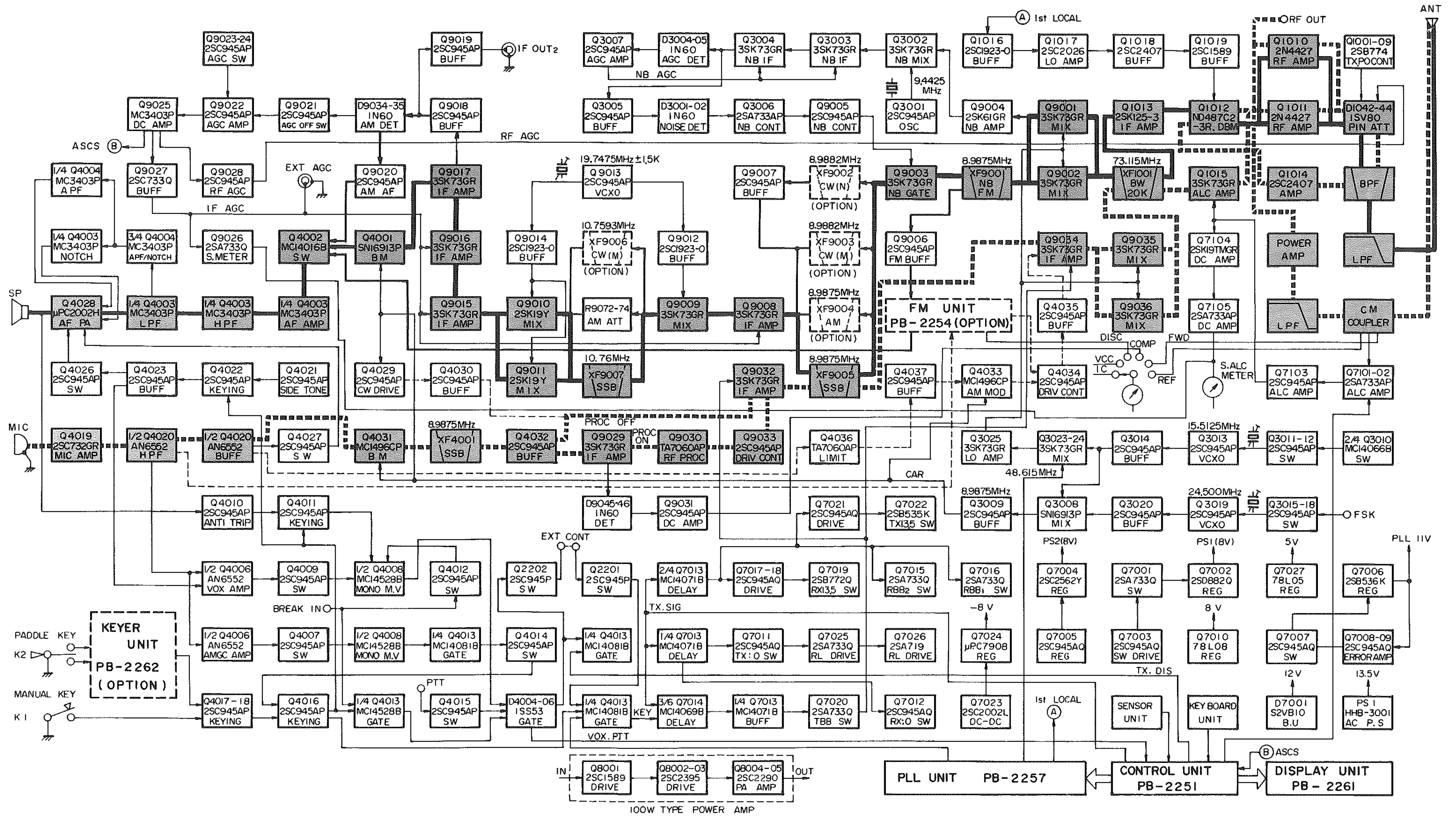


**FT-ONE
CIRCUIT DIAGRAM**



- NOTE**
1. ALL CAPACITORS ARE IN μ F-SOMV, ALL ELECTROLYTIC CAPACITORS ARE IN 16MV. ALL RESISTORS ARE IN Ω 1/4W AND ALL INDUCTORS ARE IN H(HENRY) UNLESS OTHERWISE NOTED.
 2. ALL ROTARY SWITCHES ARE SHOWN IN CCW POSITION AND ALL PUSH BUTTON SWITCHES ARE SHOWN IN THE RELEASED POSITION.

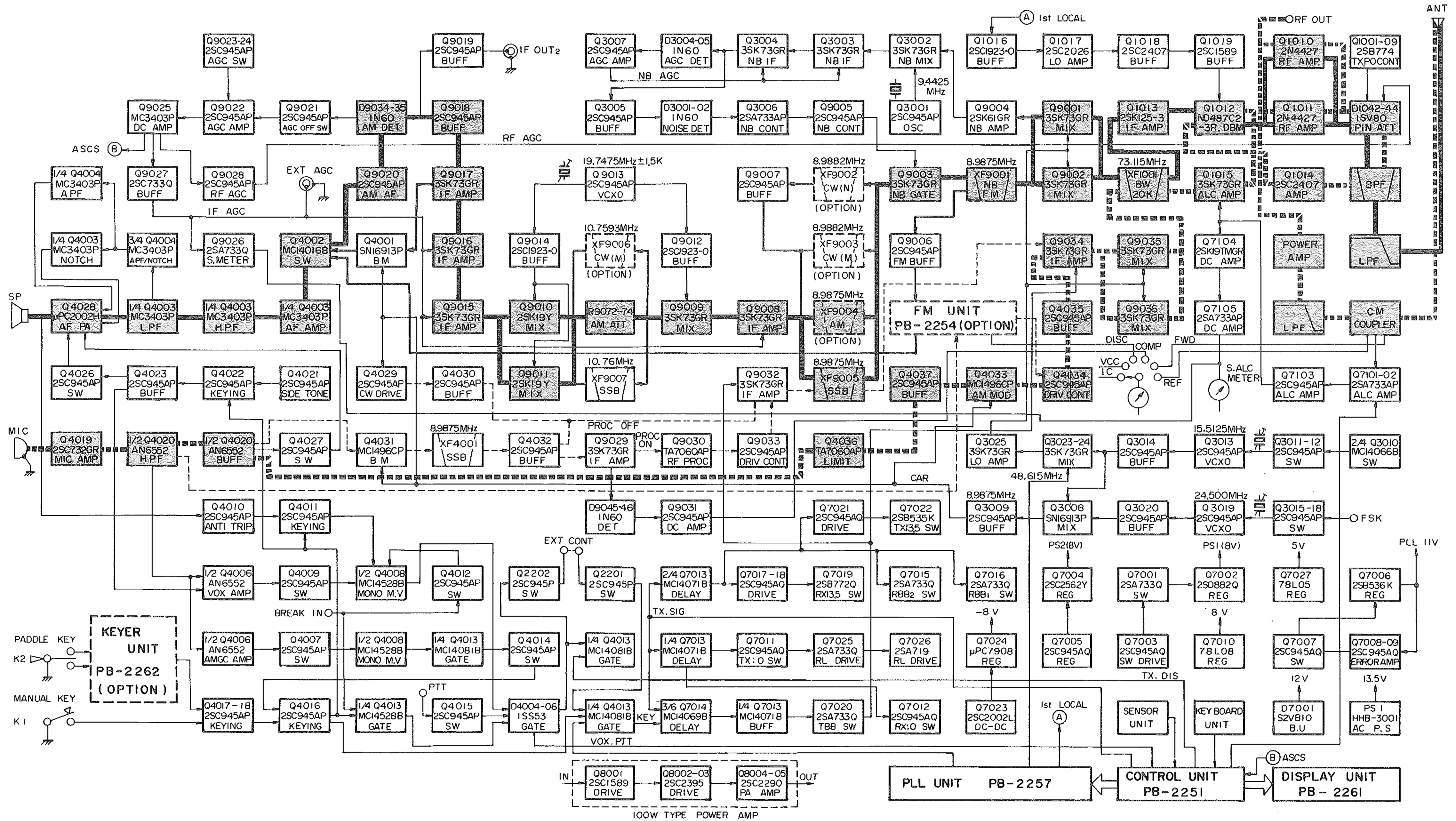
**UNIT
PB-2338 (No.22)**



SSBモード送受信信号経路図

- CONTROL
- RECEPTION
- - - TRANSMISSION

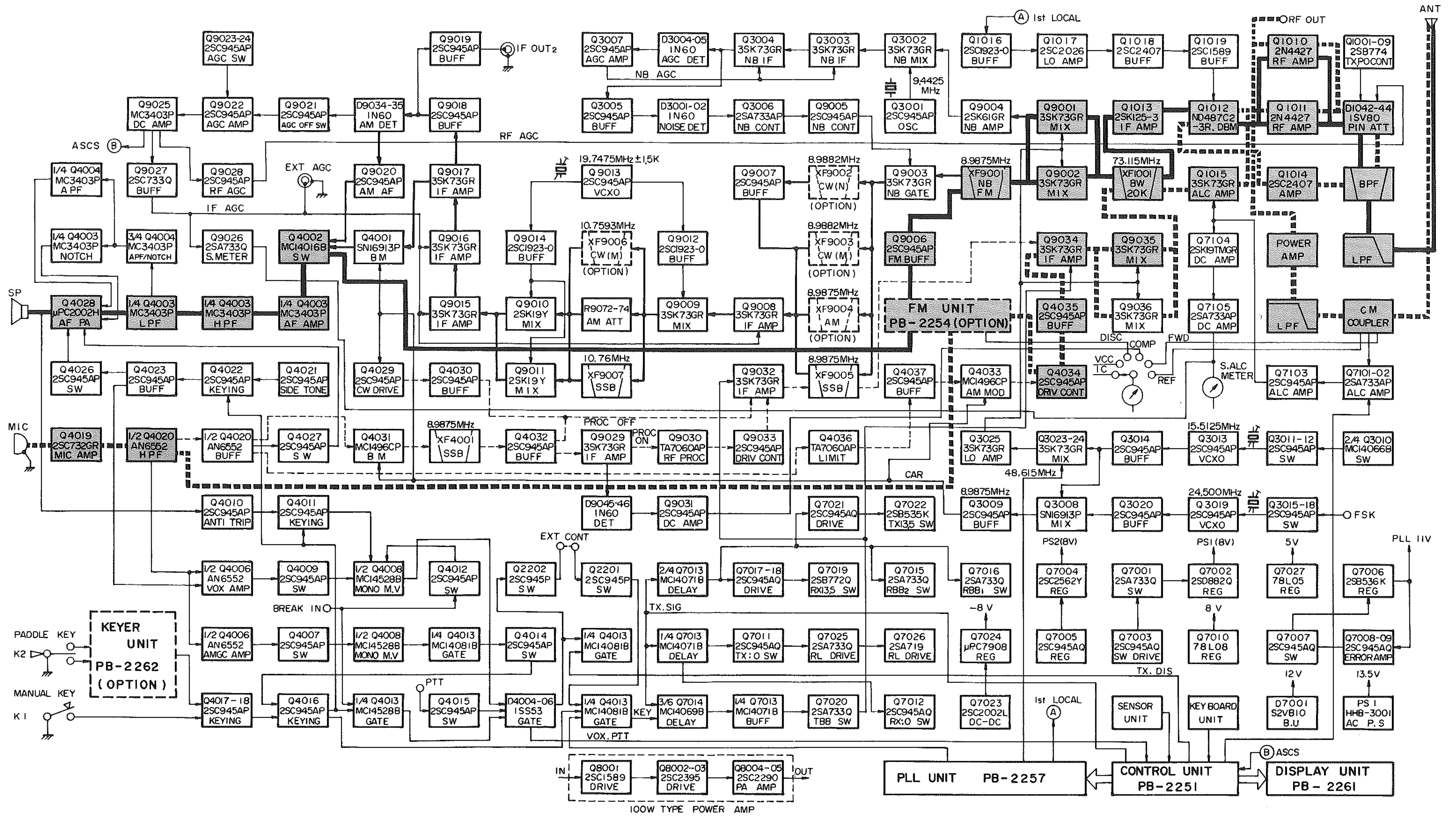
FT - ONE
BLOCK DIAGRAM



AMモード送受信信号経路図

FT - ONE
BLOCK DIAGRAM

- CONTROL
- RECEPTION
- - - TRANSMISSION



FMモード送受信信号経路図

FT-ONE
BLOCK DIAGRAM