

APPENDIX 1

PA BOARD		
Type	Function	Ref. Designator
BC847	NPN Switching Transistor	TR1; TR3
D2019	RF Amplifier	TR2
D1013UK	RF Amplifier	TR4
D1020UK	RF Amplifier	TR5

LINEARIZER BOARD		
Type	Function	Ref. Designator
LM393M	Dual Comparator	U8
BC847B	NPN Small Sig. Tran. BC847B SM	Q3
BFP193	BFP193 NPN RF Tran.	Q1-2; Q4-5
74HCO4D	Hex Inverters	U3; U15
CLC428	Dual Op. Amp.	U11; U13
CLC425	Single Op. Amp.	U4; U6
CLC426	Single Op. Amp.	U7; U10
LM6142	Dual Op. Amp.	U9
LT1292S8	Voltage Regulator w Shutdown	U2
LT1118CST-5	Voltage Regulator	U1
MAX406	Single Op. Amp,	U16
NE5537D	S/H Amplifier	U12; U14

CONTROL BOARD		
Type	Function	Ref. Designator
VP0610T	FET SOT23 Size	TR1
BC857B	PNP Switching Transistor	TR2; TR4; TR7
BC847B	NPN Switching Transistor	TR3; TR5
2SD1760Q	PNP Transistor	TR6
2SB1184Q	NPN Transistor	TR8
LM78L05ACM	Regulator +5 V	IC5
DS1624	Temperature Sensor	IC2
ICL7612	Op-Amp	IC1
LM2903	Voltage Comparator	IC3; IC7
LM7815CT	Voltage Regulator	IC6

RF RECEIVER BOARD		
Type	Function	Ref. Designator
MAX412	Dual Op. Amp.	U3; U6
LMX2332A	Synthesizer	U14
LT11295CS-8	+5 V Voltage Regulator	U17
74AC14D	D Hex Schm. Trig. Inverters	U15
74AC161AD	4-bit Counter, Binary Direct	U16
BC847B	NPN Switching Transistor	Q1
BFP193	RF Amplifier	Q2; Q4-5
MCT7812CD2T	+12 V Voltage Regulator	U10
BFR181	RF Amplifier	Q3
BC857B	PNP Switching Transistor	Q7
CLC428AJE	Dual Op. Amp	U1-2
LM79L05ACM	-5 V Voltage Regulator	U11
MC12093	Div 2/4/8 Prescaler	U13
LCM311M	Voltage Comparator	U31
ADC16471CIWM	Analog to Digital Converter	u7-8
MCT7805D2T	+5 V Regulator	U9
D2081UK	RF Amplifier	Q6
VL840	Oscillator Module	U12

SPLITTER BOARD		
Type	Function	Ref. Designator
TL072CD	Dual Op-Amp, SM	U5
CD74AC161M	4-bit Counter, Binary Direct	U1
MM74HC4060M	14-bit Counter	U2-3
BC847B	NPN Small Sig. Tran. BC847B SM	Q3-4; Q6
BFP193	BFP193 NPN RF Trans	Q5
CD74AC04M	Fast Hex Inverter SM	U4