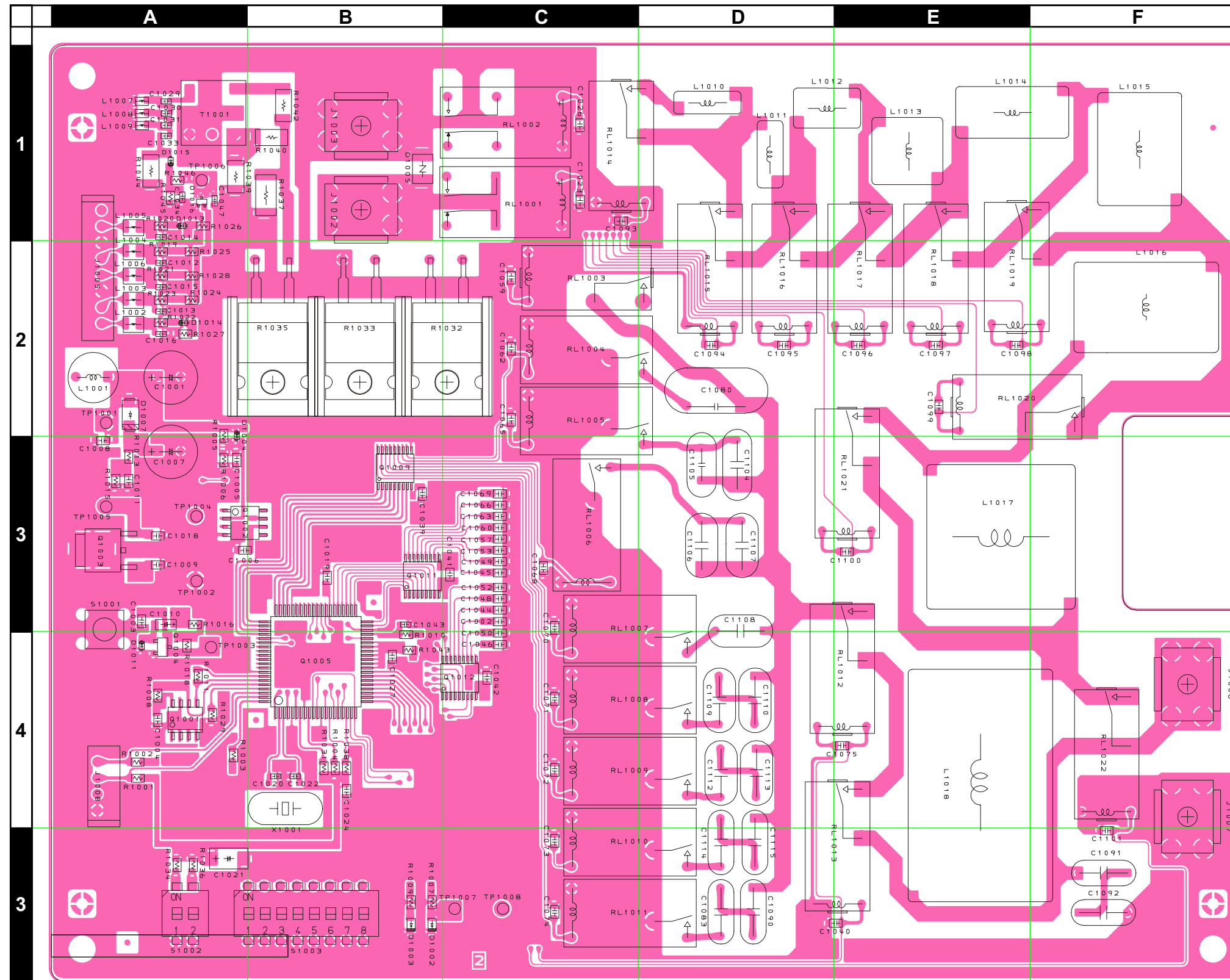
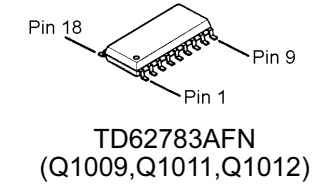
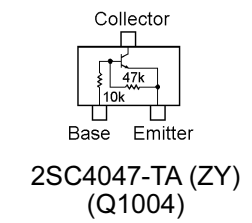
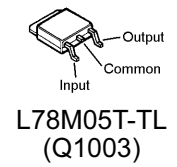
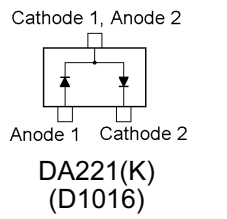
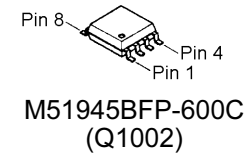
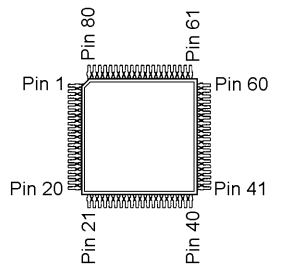
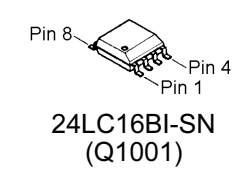




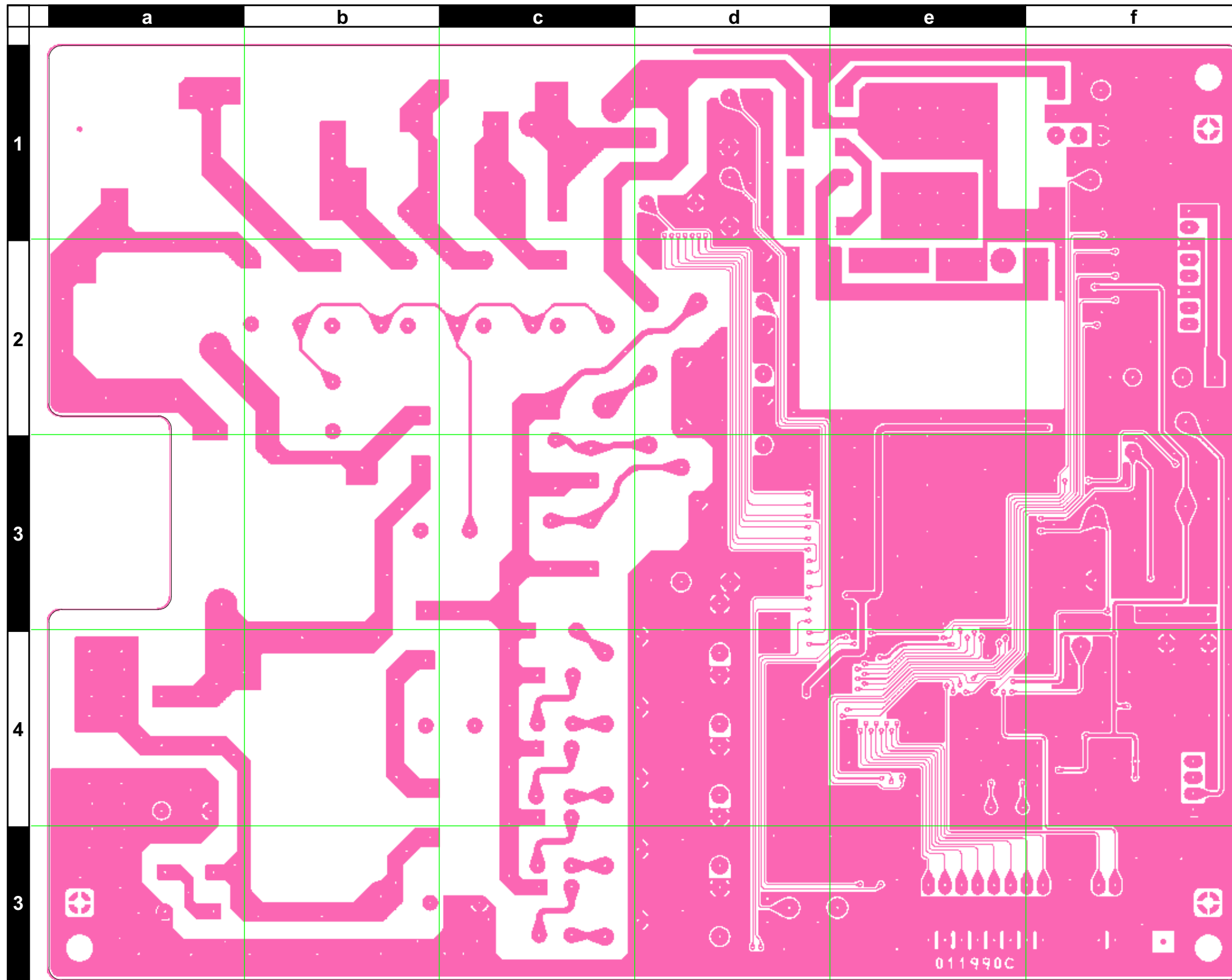
# TUNER Unit Parts Layout



Side A



TUNER Unit Parts Layout



Side B

# TUNER Unit Parts List

REF.	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE	LAY ADR
PCB with Component Printed Circuit Board						CS1822001 FR011990C				
C 1001	AL.ELECTRO.CAP.	470uF	16V		RE3-16V471M 470UF	K40129066		1-	A	A2
C 1002	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1003	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	A3
C 1004	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	A4
C 1005	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	A3
C 1006	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	B3
C 1007	AL.ELECTRO.CAP.	470uF	16V		RE3-16V471M 470UF	K40129066		1-	A	A3
C 1008	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	A3
C 1009	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	A3
C 1010	CHIP TA.CAP.	1.5uF	16V		TESVA1C155M1-8R	K78120020		1-	A	A3
C 1011	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	A3
C 1012	CHIP CAP.	0.001uF	50V	B	GRM39B102K50PT	K22174821		1-	A	A2
C 1013	CHIP CAP.	0.001uF	50V	B	GRM39B102K50PT	K22174821		1-	A	A2
C 1014	CHIP CAP.	0.001uF	50V	B	GRM39B102K50PT	K22174821		1-	A	A1
C 1015	CHIP CAP.	0.001uF	50V	B	GRM39B102K50PT	K22174821		1-	A	A2
C 1016	CHIP CAP.	0.001uF	50V	B	GRM39B102K50PT	K22174821		1-	A	A2
C 1018	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	A3
C 1019	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	B3
C 1020	CHIP CAP.	12pF	50V	CH	GRM39CH120J50PT	K22174213		1-	A	B4
C 1021	CHIP TA.CAP.	10uF	16V		TESVC1C106M12R	K78120011		1-	A	A5
C 1022	CHIP CAP.	12pF	50V	CH	GRM39CH120J50PT	K22174213		1-	A	B4
C 1023	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C1
C 1024	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	B4
C 1026	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C1
C 1027	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	B4
C 1029	CHIP CAP.	0.1uF	16V	B	GRM39B104K16PT	K22124805		1-	A	A1
C 1034	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	A	A1
C 1039	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	B3
C 1040	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	E5
C 1041	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1042	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C4
C 1043	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	A	B3
C 1044	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1045	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1046	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C4
C 1047	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	A	A1
C 1048	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1049	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1050	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C4
C 1052	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1053	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1057	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1059	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C2
C 1060	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1062	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C2
C 1063	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1065	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C2
C 1066	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1068	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1069	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C3
C 1070	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C4
C 1071	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C4
C 1072	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C4
C 1073	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C5
C 1074	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C5
C 1075	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	E4
C 1080	MICA CAP.	0.0012uF	1KV		DML2 122J10	K30309044		1-	A	D2
C 1083	CERAMIC CAP.	18pF	3.15KV	SL	DEA1X3F180JCDB	K00539002		1-	A	D5

# TUNER Unit Parts List

REF.	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE	LAY ADR
C 1090	CERAMIC CAP.	18pF	3.15KV	SL	DEA1X3F180JCDB	K00539002		1-	A	D5
C 1091	CERAMIC CAP.	18pF	3.15KV	SL	DEA1X3F180JCDB	K00539002		1-	A	F5
C 1092	CERAMIC CAP.	18pF	3.15KV	SL	DEA1X3F180JCDB	K00539002		1-	A	F5
C 1093	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	C1
C 1094	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	D2
C 1095	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	D2
C 1096	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	E2
C 1097	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	E2
C 1098	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	E2
C 1099	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	E2
C 1100	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	E3
C 1101	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		1-	A	F5
C 1104	CERAMIC CAP.	330pF	2KV	SL	DEA1X3D331JA3B	K00339003		1-	A	D3
C 1105	CERAMIC CAP.	270pF	2KV	SL	DEA1X3D271JA2B	K00339002		1-	A	D3
C 1106	CERAMIC CAP.	150pF	3.15KV	SL	DEA1X3F151JA3B	K00539008		1-	A	D3
C 1107	CERAMIC CAP.	150pF	3.15KV	SL	DEA1X3F151JA3B	K00539008		1-	A	D3
C 1108	CERAMIC CAP.	150pF	3.15KV	SL	DEA1X3F151JA3B	K00539008		1-	A	D4
C 1109	CERAMIC CAP.	150pF	3.15KV	SL	DEA1X3F151JA3B	K00539008		1-	A	D4
C 1110	CERAMIC CAP.	150pF	3.15KV	SL	DEA1X3F151JA3B	K00539008		1-	A	D4
C 1112	CERAMIC CAP.	68pF	3.15KV	SL	DEA1X3F680JA3B	K00539005		1-	A	D4
C 1113	CERAMIC CAP.	82pF	3.15KV	SL	DEA1X3F820JA3B	K00539006		1-	A	D4
C 1114	CERAMIC CAP.	39pF	3.15KV	SL	DEA1X3F390JC3B	K00539004		1-	A	D5
C 1115	CERAMIC CAP.	39pF	3.15KV	SL	DEA1X3F390JC3B	K00539004		1-	A	D5
D 1002	LED				SML-210MTT86	G2070524		1-	A	B5
D 1003	LED				SML-210VTT86	G2070768		1-	A	B5
D 1004	DIODE				RB521S-30 TE61	G2070642		1-	A	A3
D 1005	SURGE ABSORBER				RCCA-301Q43UA	Q9000756		1-	A	B1
D 1007	DIODE				RB060L-40 TE25	G2070744		1-	A	A2
D 1011	DIODE				RB521S-30 TE61	G2070642		1-	A	A4
D 1013	DIODE				RB521S-30 TE61	G2070642		1-	A	A1
D 1014	DIODE				RB521S-30 TE61	G2070642		1-	A	A2
D 1015	DIODE				RB521S-30 TE61	G2070642		1-	A	A1
D 1016	DIODE				DA221 TL	G2070178		1-	A	A1
J 1002	TERMINAL				Y106	S5000179		1-	A	B1
J 1003	TERMINAL				Y106	S5000179		1-	A	B1
J 1005	CONNECTOR				SC25-08WS	P0090627		1-	A	A1
J 1006	TERMINAL				Y106	S5000179		1-	A	F4
J 1007	TERMINAL				Y106	S5000179		1-	A	F4
J 1008	CONNECTOR				SC25-04WS	P0090623		1-	A	A4
L 1001	M.RFC	120uH			RCH-875 121K	L1190396		1-	A	A2
L 1002	CHIP COIL	100uH			LQH32MN101K23L	L1690099		1-	A	A2
L 1003	CHIP COIL	100uH			LQH32MN101K23L	L1690099		1-	A	A2
L 1004	CHIP COIL	100uH			LQH32MN101K23L	L1690099		1-	A	A2
L 1005	CHIP COIL	100uH			LQH32MN101K23L	L1690099		1-	A	A1
L 1006	CHIP COIL	100uH			LQH32MN101K23L	L1690099		1-	A	A2
L 1010	COILA1				1.5T8.0D1.2PEW R	L0022867		1-	A	D1
L 1011	COILA1				2.5T8.0D1.2PEW R	L0022868		1-	A	D1
L 1012	COILA1				4.5T8.0D1.2PEW R	L0022869		1-	A	E1
L 1013	COILA1				7.5T8.0D1.2PEW R	L0022871		1-	A	E1
L 1014	COILA1				5.5T15.1D1.2PEW R	L0022870		1-	A	F1
L 1015	COILA1				9.5T15.1D1.2PEW R	L0022872		1-	A	F1
L 1016	COILA1				10.5T20.0D1.2PEW R	L0022873		1-	A	F2
L 1017	COILA1				17.5T20.0D1.2PEW R	L0022874		1-	A	F3
L 1018	COILA1				27.5T20.0D1.2PEW R	L0022875		1-	A	E5
Q 1001	IC				24LC16BI-SN TER	G1091852		1-	A	A4
Q 1002	IC				M51945BFP-600C	G1091990		1-	A	B3
Q 1003	IC				L78M05T-TL	G1091731		1-	A	A3
Q 1004	TRANSISTOR				2SC4047-TA	G3340477		1-	A	A4
Q 1005	IC				HD64F2132RFA20(FLASH)	G1093150		1-	A	B4
Q 1009	IC				TD62783AFN(EL)	G1092700		1-	A	B3

# TUNER Unit Parts List

REF.	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE	LAY ADR
Q 1011	IC				TD62783AFN(EL)	G1092700		1-	A	B3
Q 1012	IC				TD62783AFN(EL)	G1092700		1-	A	C4
R 1001	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	A4
R 1002	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	A4
R 1003	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	A4
R 1004	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	B4
R 1005	CHIP RES.	8.2k	1/10W	5%	RMC1/10T 822J	J24205822		1-	A	A3
R 1006	CHIP RES.	1.8k	1/10W	5%	RMC1/10T 182J	J24205182		1-	A	A3
R 1007	CHIP RES.	1.5k	1/10W	5%	RMC1/10T 152J	J24205152		1-	A	B5
R 1008	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	A4
R 1009	CHIP RES.	1.5k	1/10W	5%	RMC1/10T 152J	J24205152		1-	A	B5
R 1010	CHIP RES.	100	1/10W	5%	RMC1/10T 101J	J24205101		1-	A	B4
R 1011	CHIP RES.	1.8k	1/10W	5%	RMC1/10T 182J	J24205182		1-	A	A4
R 1013	CHIP RES.	15k	1/10W	5%	RMC1/10T 153J	J24205153		1-	A	A3
R 1015	CHIP RES.	8.2k	1/10W	5%	RMC1/10T 822J	J24205822		1-	A	A3
R 1016	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	A3
R 1018	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	A4
R 1019	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	A	A2
R 1020	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	A	A1
R 1021	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	A	A2
R 1022	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	A	A2
R 1023	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	A	A2
R 1024	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	A2
R 1025	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	A2
R 1026	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	A1
R 1027	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	A2
R 1028	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	A2
R 1029	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	A4
R 1031	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	B4
R 1032	METAL FILM RES.	33	20W	1%	RNP-20S C330F 33	J22439011		1-	A	C2
R 1033	METAL FILM RES.	33	20W	1%	RNP-20S C330F 33	J22439011		1-	A	B2
R 1034	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	A5
R 1035	METAL FILM RES.	180	20W	1%	RNP-20S C181F 180	J22439013		1-	A	B2
R 1036	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	A5
R 1037	CHIP RES.	68	1W	5%	RMC1 680JTE	J24305680		1-	A	B1
R 1038	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	B4
R 1039	CHIP RES.	47	1/2W	5%	RMC1/2 470JCTP	J24275470		1-	A	A1
R 1040	CHIP RES.	47	1/2W	5%	RMC1/2 470JCTP	J24275470		1-	A	B1
R 1042	CHIP RES.	47	1/2W	5%	RMC1/2 470JCTP	J24275470		1-	A	B1
R 1043	CHIP RES.	0	1/10W	5%	RMC1/10T 000J	J24205000		1-	A	B4
R 1044	CHIP RES.	47	1/2W	5%	RMC1/2 470JCTP	J24275470		1-	A	A1
R 1045	CHIP RES.	100k	1/10W	5%	RMC1/10T 104J	J24205104		1-	A	A1
R 1046	CHIP RES.	1k	1/10W	5%	RMC1/10T 102J	J24205102		1-	A	A1
R 1047	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-		
R 1048	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-		
R 1049	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-		
RL1001	RELAY		DC12V		AGP2013 DC12V	M1190069		1-	A	C1
RL1002	RELAY		DC12V		AGP2013 DC12V	M1190069		1-	A	C1
RL1003	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	C2
RL1004	RELAY		DC12V		VE 12HM-K DC12V	M1190186		1-	A	C2
RL1005	RELAY		DC12V		VE 12HM-K DC12V	M1190186		1-	A	C3
RL1006	RELAY		DC12V		VE 12HM-K DC12V	M1190186		1-	A	C3
RL1007	RELAY		DC12V		VE 12HM-K DC12V	M1190186		1-	A	C4
RL1008	RELAY		DC12V		VE 12HM-K DC12V	M1190186		1-	A	C4
RL1009	RELAY		DC12V		VE 12HM-K DC12V	M1190186		1-	A	C4
RL1010	RELAY		DC12V		VE 12HM-K DC12V	M1190186		1-	A	C5
RL1011	RELAY		DC12V		VE 12HM-K DC12V	M1190186		1-	A	C5
RL1012	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	D4
RL1013	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	D5
RL1014	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	C1

## TUNER Unit Parts List

REF.	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE	LAY ADR
RL1015	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	D2
RL1016	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	D2
RL1017	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	E2
RL1018	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	E2
RL1019	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	E2
RL1020	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	E2
RL1021	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	D3
RL1022	RELAY		DC12V		APQ3311 DC12V	M1190185		1-	A	F4
S 1001	TACT SWITCH				SKHHAR	N5090034		1-	A	A4
S 1002	DIP SWITCH				SSGM120100	N7090147		1-	A	A5
S 1003	DIP SWITCH				SSGM180100	N7090149		1-	A	B5
T 1001	COIL 10WIDE				1-1 FB801-43	L0022427		1-	A	A1
TP1001	TERMINAL				TP-K IPS-1136	Q5000050		1-	A	A2
TP1002	TERMINAL				TP-K IPS-1136	Q5000050		1-	A	A3
TP1003	TERMINAL				TP-K IPS-1136	Q5000050		1-	A	A4
TP1004	TERMINAL				TP-K IPS-1136	Q5000050		1-	A	A3
TP1005	TERMINAL				TP-K IPS-1136	Q5000050		1-	A	A3
TP1006	TERMINAL				TP-K IPS-1136	Q5000050		1-	A	A1
TP1007	TERMINAL				TP-K IPS-1136	Q5000050		1-	A	C5
X 1001	XTAL HC-49U/4	19.6608MHz			19.6608MHZ	H0103052		1-	A	B4
	HEAT SINK				SP141K	S5000229		1-		
	PLATE NUT				M3X8	R0102810		1-		
	BINDING HEAD SCREW					U20308001		1-		