

0-07-96

FULL PARTS EXPLOSION for Assembly K SP1581 XX
 ST450 4CH SYNTH TX
 ISS.B 200596

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ty Component	Description	Location	B
1 1051 0150	15E 0805 0.156W 2%	R84	
7 1051 0470	47E 0805 0.156W 2%	R6,9,32,44,71,82,83	
2 1051 1100	100E 0805 0.156W 2%	R43,48	
5 1051 1330	330E 0805 0.156W 2%	R25,45,46,73,85	
16 1051 2100	1K0 0805 0.156W 2%	R5,7,8,10,11,27,28,29,31 R40,42,47,66,75,78,79	
6 1051 2220	2K2 0805 0.156W 2%	R1,16,50,54,64,81	
31 1051 3100	10K 0805 0.156W 2%	R12,14,15,17,18,19,20,23 R24,26,30,33,34,35,36,37 R39,41,49,51,56,58,59,60 R69,70,72,77,86,87,88	
3 1051 3330	33K 0805 0.156W 2%	R4,52,76	
6 1051 3560	56K 0805 0.156W 2%	R2,13,22,55,57,65	
2 1051 5100	1M0 0805 0.156W 2%	R3,21,	
1 1170 0027	2.7PF 0805 COG 0.25P	C50	
1 1170 0056	5.6PF 0805 COG 0.25P	C9	
4 1170 0068	6.8PF 0805 COG 0.25P	C59,76,77,79	
4 1170 0100	10PF 0805 COG 5%	C12,16,19,68	
4 1170 0330	33PF 0805 COG 5%	C31,34,45,55	
2 1170 1120	120PF 0805 COG 5%	C48,54	
1 1170 1390	390PF 0805 COG 5%	C53	
1 1170 1680	680PF 0805 COG 5%	C11	
1 1171 2220	2200PF 0805 X7R 10%	C49	
27 1171 2101	1000PF 0805 X7R 10%	C1,2,3,4,5,6,7,8,20,21,30 C33,38,39,42,43,57,62,65 C66,70,72,73,74,75,80,81 C37,44,46,60	
4 1171 3100	0.01UF 0805 X7R 10%	C10,58	
2 1166 3330	0.033UF 0603 X7R 10%	C13,15,22,64	
4 1171 4100	0.1UF 0805 X7R 10%		
1 1750 3120	12nH SM SPRING 4T INDUCTO	L2	
3 1750 3153	15nH SM INDUCTOR ELJNC15N	L16,17,18	
2 1750 3471	47nH SM INDUCTOR ELJNC TY	L11,14	
1 1750 5221	INDUCTOR 2.2uH 10% ELJFC2	L6	
1 1750 7102	100UH LQH3N 10% SM INDUCT	L9	
2 SOLDER LINK	MAKE A SOLDER BRIDGE TO L	S1,2	

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FULL PARTS EXPLOSION for Assembly K SA1581 XX
 ST450 4CH SYNTH TX
 ISS.B 200596 MYK 3

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ty Component	Description	Location	B
2 1251 0040	BAV99 2 DIODES SOT23 A7	D1,13, THIS DEVICE IS MOUNTED UPSIDEDOWN	A
5 1251 0100	1SS355 DIODE S0D323 35V 2	D3,4,6,7,8	
2 1254 0030	DAN235K 2 DIODES SC59A	D5,14	M
1 1261 0030	TK11250 5v LD REG	IC1	
1 1264 0010	BFR93 1.9dB 500MHz SOT23	TR14	R
2 1264 0020	BFR540 RF NPN SOT23	TR11,12	
1 1265 0000	BL750 TRANSISTOR SM	TR8	B
5 1267 0060	NPN DIGITAL TRANSISTOR	TR1,2,3,4,5	2
2 1268 0020	BC857 0.1A-45V SOT23 3E/F	TR9,13	3
1 1263 0010	LM358M SM SURF/NT DUAL OP	IC2	
2 1283 0020	TL062CD SM SM DUAL OP AMP	IC4,6	

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FULL PARTS EXPLOSION for Assembly K SA1580 XX
 SR*** 4CH SYNTH RX
 21010000 ISS.B 060696 MOOPS

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Qty	Component	Description	Location	B
3	1251 0010	BAS16 DIODE SOT23 A6	D4,5,6	
1	1251 0020	BAT54 DIODE SOT23 L4	D1	A
1	1251 0030	BAV70 2 DIODES SOT23 A4	D2	L
1	1251 0040	BAV99 2 DIODES SOT23 A7	D3	A
1	1261 0030	TK11250 5v LD REG	IC2	A
1	1265 0020	MRF5812 0.6 10dB 800MHz S	TR5	5
7	1267 0011	BC847C 0.1A/45V SOT23 1G	TR1,2,3,4,7,10,12	1
1	1267 0050	BSV52 0.1A/12V SOT23 B2 T	TR8	B
1	1269 0020	***2SK882 N CHANNEL MOSFET	TR9	T
1	1271 0010	*** BF998 DG MOSFET UHF	TR11	
1	1281 0010	*** BU4S66 CMOS GATE ANAL	IC1	
1	1283 0010	LM358N SM SURF/NT DUAL OP	IC4	
1	1290 0050	MC3371D SM LO VPLT NBFM I	IC5	
2	1750 3153	15nH SM INDUCTOR ELJNC15N	L1,3	
1	1750 4680	0.68uH LQH3N 10% SM INDUC	L19	
1	1750 5221	INDUCTOR 2.2uH 10% ELJFC2	L18	
3	1750 7102	100uH LQH3N 10% SM INDUCT	L6,10,15	

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FULL PARTS EXPLOSION for Assembly K LC1581 XX
 ST450 4CH SYNTH TX
 21000000 ISS.C 030796 MOOPS

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Qty	Component	Description	Location	B
1	NOTE 1		REMOVE D1 AND D13 AND RE-FIT UPSIDE DOWN	
1	1170 0100	10PF 0805 COG 5%	C68	
1	1250 0040	BZX84C3V3 ZENER 300mW 5%	D9	2
1	1052 0001	1206 SHORTING LINK	L15	
2	1000 0022	2E2 1% 600mW	R38,61	
2	1001 0270	27E 1% 400mW	R67,68	
1	1010 1500	500R 3329H 10% 500mW	RV4	
3	1010 3100	10K 3329H 10% 500mW	RV1,2,6	
2	1010 4100	100K 3329H 10% 500mW	RV3,5	
3	1130 6100	10UF 16V MIN.RADIAL 20%	C27,40,41	
2	1132 6471	47UF 50V RADIAL 20%	C17,23	
2	1140 0101	2/10PF YELLOW 5MM	C26,29	
1	1140 0050	1.5/5PF GREY 5MM	C56	
1	1203 0090	BYV10-40 1A 40V SCHOTTKY	D2	
1	1218 0060	BD436 4A/32V T0126	TR7	
1	1225 0070	PIC16C84 LEADED MICRO	IC3 PROGRAM PIC BEFORE FITTING ON IC HOLDER	
1	1232 0090	LM3080N TRANSCOND AMP 8 D	IC5	
1	1334 0019	1334 0029 HEAD STR SIL 2	PL4	
1	1334 0020	1334 0029 HEAD STR SIL 3	PL1	
1	1334 0022	1334 0029 HEAD STR SIL 5	PL5	
1	1371 0030	18 PIN LOW COST IC SOCKET	IC3	
1	1540 0010	MODULATABLE TCXO 12.8MHz	U1	
1	1535 0030	3.58 MHz CERAMIC RES CSA3	X1	
2	1711 3300	M/C 1.5T MC119 0.03uH	L3,8, (NO CORE)	
1	1711 4140	M/C 4.5T MC119 0.14uH	L10, (NO CORE)	
4	1715 0030	2.5T 2.25 DIA x 22SWG OPE	L1,4,7,13	

Component	Description	Location
1010 3100	10K 3329H 10% 500mW	RV1
1132 6101	10UF 50V RADIAL 20%	C10,13,19,22,45,72
1132 6470	47UF 10V RADIAL 20%	C15
1140 0200	4/20PF GREEN 5MM	C30
1142 0200	4.2/20PF MURATA CERAMIC	C74,76
1206 0050	TUF-1 7dBm DBM	M1
1225 0070	PIC16C84 LEADED MICRO	IC3 PROGRAM PIC BEFORE FITTING ON IC HOLDER
1334 0016	1334 0029 HEAD STR SIL 10	PIT IN LOCATIONS PL3,4,5
1334 0022	1334 0029 HEAD STR SIL 5	PL6
1371 0030	18 PIN LOW COST IC SOCKET	IC3 SOCKET
1510 0081	21M15BU X1 21.4MHz 25KHz	F6,7 DOTS FACE EACH OTHER
1535 0030	3.58 MHz CERAMIC RES CSA3	X1
1560 0171	XTL 20.945 MHz HC49 20PPM	X4
1720 0001	SCR/C 5mm TOKO 0124	L13
1720 0018	SCR/C TOKO 210 189	L17
Component	Description	Location
1051 0470	47E 0805 0.156W 2%	R12,61
1051 1220	220E 0805 0.156W 2%	R24,35,48,65,73
1051 1330	330E 0805 0.156W 2%	R33
1051 2100	1K0 0805 0.156W 2%	R4,7,9,13,14,15,16,17,27 R28,39,49,50,59
1051 2220	2K2 0805 0.156W 2%	R47,51,74,77
1051 2470	4K7 0805 0.156W 2%	R60
1051 3100	10K 0805 0.156W 2%	R2,5,10,19,22,23,25,32, 40,42,43,45,46,52,54,57, 58,66,72
1051 3220	22K 0805 0.156W 2%	R53,55,70
1051 3390	39K 0805 0.156W 2%	R30,41,44,56,62,67,76,78
1051 3820	82K 0805 0.156W 2%	R1,3,6,8,11,18,20,21,26, 29,31,34,37,38,64,75
1051 4470	470K 0805 0.156W 2%	R63,68,69
1051 5100	1M0 0805 0.156W 2%	R36
1170 0100	10PF 0805 COG 5%	C73
1170 0220	22PF 0805 COG 5%	C36
1170 0330	33PF 0805 COG 5%	C31,32,52,67,71,77
1170 1220	220PF 0805 COG 5%	C54
1170 1330	330PF 0805 COG 5%	C28,37,41,53,62,63
1170 1470	470PF 0805 COG 5%	C57
1170 1680	680PF 0805 COG 5%	C25
1170 2100	1000pF 50V 5% 0805 COG	C1,2,3,4,5,6,7,8,9,23,24, 29,39,44,46,56,66
1171 2220	2200PF 0805 X7R 10%	C59
1171 3100	0.01UF 0805 X7R 10%	C65,68,69,75
1171 4100	0.1UF 0805 X7R 10%	C11,14,20,27,38,40,42,49, 50,51,55,60,61
Component	Description	Location
1530 0051	LTW33-455G 455KHz CERAMIC	F4,5

Component	Description	Location
1334 0019	1334 0029 HEAD STR SIL 2	PL1 FIT COMPONENT SIDE
1334 0023	1334 0029 HEAD STR SIL 6	PL2 FIT COMPONENT SIDE
1700 7220	220UH 10% 250mW SC30	L5 FIT SURFACE MOUNT SIDE

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FULL PARTS EXPLOSION for Assembly K SP1579 XX
PASSIVE SURFACE MOUNT C

Component	Description	Location
1051 0470	47E 0805 0.156W 2%	R4,5,22
1051 2100	1K0 0805 0.156W 2%	R9,15,16,20,21
1051 2330	3K3 0805 0.156W 2%	R1,23
1051 3100	10K 0805 0.156W 2%	R2,7,8,12,13,18
1051 4100	100K 0805 0.156W 2%	R6,10,11
1060 2100	1K0 SM 3304W 25% 100mW	RV1
1170 0010	1.0PF 0805 COG 0.25P	C32
1170 0330	33PF 0805 COG 5%	C29
1171 2100	1000PF X7R 0805 5%	C3,4,8,10,11,14,18,20,25,28,30,40
1171 3220	0.022uF 0805 X7R 10%	C27
1171 4100	0.1uF 0805 X7R 10%	C5,6,9,16,20,43
1190 6100	TANT CASE A 10mF 6.3V 20%	C12,34,42
1192 5100	1.0UF 16V 3.2X1.6X1.6 TAN	C23
1750 5221	INDUCTOR 2.2uH 10% ELJFC2	L2