

SRPT-40A BILL OF MATERIAL

Following are tables listing all parts and material used in the SRPT-40A.

**BOM
SRPT-40A/450
705-ST40A-4**

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
	SRPT-40A Mainframe			700-250-41A
	Top Panel Vender Assembly			700-250-40P
	Screw, 6-32 x 1/4" phillips pan head (14)			500-183

**BOM
SRPT-40A MAINFRAME
700-250-41A**

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
	Bottom Panel Vender Assembly			700-250-41P
	Back Panel Assembly			700-250-43A
	Screw, 6-32 x 1/4" phillips pan head (6)			500-183
	Front Panel Assembly			700-250-42A
	Screw, 6-32 x 1/4" phillips pan head (4)			500-183
	Transmitter Synthesizer Assembly			800-375AT450
	Spacer, 4-40 x 1/2 hex threaded insulated (4)			513-040
	Screw, 4-40 x 1/4" phillips pan head M/S Ni. (4)			500-004
	Lockwasher, #4 internal tooth small pattern z (4)			500-055
	SRPT-40 Audio Board			800-166AS
	Spacer, #6 x 1/4 round (2)	Keystone	1457A	513-019
	Screw, 6-32 x 3/8" phillips pan head (2)			500-192
	SRPT-40A Audio Regulation Board			800-168-40A
	Sil Pad TO220 .75 x .5" ADHSV	Berquist	3223-07AC-58	DB68027
	Washer, TO-220 Shoulder NYL	Thermalloy	7721-7PPS	DB61024
	Screw, 4-40 x 1/4" phillips pan head M/S Black			500-180
	Kepps nut 4 x 40 zinc 4CNKEOZ			500-199
	Screw, 4-40 x 1/4" phillips pan head M/S Blk (2)			500-180
	Power Supply TEK150S00-XXX for SRPT-40	IPS	UL200-13	800-324A
	Screw, 4MM x 5MM Phillips Pan Head MS (4)			500-225
	Lockwasher, 4MM Split (4)			500-226
	Solder Lug, #6 (2)	Concord	707-1406	512-009
	Screw, 6-32 x 3/8" phillips pan head (2)			500-192
	Keps nut 6 x 32 zinc 6CNKEOZ (2)			500-200
	Wire Clip on Adhesive Base	Richco	#WCB-250-01A-RT	510-279
	Cable Assembly, SRPT-40A main			586-207
	Cable Assembly, AC/Power Supply/Switch			586-208
	Cable Assembly, AC Conn. to Fuseholder (2)	Altair	TAC#9678	586-194
	Cable Assembly, AC ground			586-209

Ribbon Cable 6"	DigiKey	M3AAA1606R-ND	586-134
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**BOM
BOTTOM PANEL VENDER ASSEMBLY
700-250-41P**

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
	Panel, Bot., SRPT-40A, metalwork & silkscreen	Marti		700-250-41
	Side Plate AR-10/RPT-2/15/30/SRPT-40A (4) Rivet 1/8 x .165 semi-tubular black 100 (8)		CE100732	700-203-5 500-184
	Handle Assy., blach w/black plated steel			510-132
	Rivet 1/8 x .312 semi-tubular stan (2)			500-186
	Washer, C-126=820W Brass/Nickel Plated (2)			500-127
	Bumper, Bruce Plastics 0772-0014 black (6)			510-205
	Rivet, CE-100 5/16" steel nickel (6)			500-126
	Washer, C-126=820W Brass/Nickel Plated (6)			500-127

**BOM
BACK PANEL ASSEMBLY
700-250-43A**

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
	Panel, Back, SRPT-40A, metalwork & silkscreen	Marti		700-250-43
	Board Assembly, Power Amplifier			800-373A450-50
	Screw, #6 x 1/2" hex washer hd type TCS zi (4)			500-153
	Board Assembly, RPU Trans I/O Board			800-379AR
	Fuseholder, Fuse, 4 Amp., 3AG	Littlefuse Littlefuse	342-004 312-0	510-072 510-204
	AC Receptacle Screw, 4-40 x 3/8" phillips oval head M/S (2)	Corcom	10EEA1	510-267 500-188
	Cable Assembly, RF Output Screw, 4-40 x 1/4" phillips pan hd M/S Nickel (4) Hex Nut, #4-40 Regular Nickel Plated (4)			586-202 500-004 500-002-1

**BOM
POWER AMPLIFIER ASSEMBLY
800-373A450-50**

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
U3	Board Assembly, Two-Stage RF PA - Generic IC, Power Amplifier Module, 440-470 MHz, 50 W	Marti Mitsubishi	M68703HA	800-373A 468-703

U5	IC, SMT, Regulator, 5A	National Semi.	LM338T	401-338
U6	IC, SMT, Regulator, 5A	National Semi.	LM338T	401-338
U7	IC, SMT, Regulator, 5A	National Semi.	LM338T	401-338
D1	Not Used			
D2	Not Used			
FL1	Filter, low-pass, see La - Ld and Ca - Cc below:			
La	Inductor, SMT, size1206, 5nH	Coilcraft	A04TJ	350-192
Lb	Inductor, SMT, size1206, 8nH	Coilcraft	A05TJ	350-194
Lc	Inductor, SMT, size1206, 8nH	Coilcraft	A05TJ	350-194
Ld	Inductor, SMT, size1206, 5nH	Coilcraft	A04TJ	350-192
Ca	Capacitor, SMT, size 1206, 4.7pF, COG, 100V	Kemet	C1206C479C1 GAC	270-407-1
Cb	Capacitor, SMT, size 1206, 4.7pF, COG, 100V	Kemet	C1206C479C1 GAC	270-407-1
Cc	Capacitor, SMT, size 1206, 4.7pF, COG, 100V	Kemet	C1206C479C1 GAC	270-407-1
R1	Resistor, SMT, size 1206, 0 ohms	Dale	CRCW1206000 ZT-X	185-000
R30	Thermistor, 1K @ 25 degrees C	Fenwal	142-102FAG- RB1	120-002
P1	Connector, 8-pin header, large - cut from 550-162	Molex	26-48-6248	550-138
P3	Connector, 6-pin header, smal - cut from 550-214	Molex	22-28-4361	550-324
	Cover, Two Stage Power Amplifier	Marti		700-226-61
	Copper foam, adhesive - cut from DB65112 (.05)			DB65112
	FAN ASSEMBLY			
	Fan Bracket (2)	Marti		700-226-57
	Screw, #6 - 1/2 Hex Washer Head TypeTCS Zinc Plated(4)			500-153
	Fan Base Plate	Marti		700-226-58
	Screw, 6-32 x 1/4" phillips pan head M/S Nickel plated (4)			500-020
	Grommet, 3/8" (4)	GC	11-292-C	510-031
	Screw, 6-32 x 5/8" phillips pan head M/S Nickel plated (4)			500-025
	Spacer, #6 x 1/4 round (4)	Keystone	1457A	513-019
	Flat Washer, #6 SAE (4)			500-058
	Keps nut, 6x32 zinc 6CNKEOZ (4)			500-200
	Fan, NMB 2410ML04WB40-P00	Adda	AD0612HS- A70GL	510-231
	Foam tape, 1/2 x 1/16 (0.125)	3M	4016	510-253
	Fan Mount Insulation			510-260
	Wire Clip on Adhesive Base	Richco	WCB-250-01A- RT	510-279
	PA BOARD MOUNT			
	Screw, 4-40 x 1/2" phillips pan head M/S Nickel plated(5)			500-011

Lockwasher, #4 internal tooth small pattern Zinc (5)				500-055
Spacer, 4-40 x 3/8 hex threaded (5)	Keystone	1450B		513-022

PA MODULE MOUNT

Screw, #6 - 1/2 Hex Washer head type TCS Zinc plated (2)				500-153
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REGULATOR MOUNT

Screw, #4 x 1/4" slot hex wash hd type B tapping Zinc plated (3)				500-130
SIL PAD to 218 .86" x .74" ADHSV (3)	Berquist	3223-07AC-58	DB68027	
Washer, TO-220 Shoulder NYL (3)	Thermalloy	#7721-7PPS	DB61024	
Heatsink, Drilled for PA Board				520-050D5

**BOM
TWO-STAGE RF PA BOARD ASSEMBLY - GENERIC
800-373A**

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
U1	IC, SMT, Op-amp, quad, rail-to-rail	Analog Devices	OP-495GS	400-495
U2	IC, SMT, Amplifier MMIC, Wideband, 1 Watt	Mini-Circuits	HELA-10	See K1
U3	See higher level BOM			
U4	Not Used			
U5	See higher level BOM			
U6	See higher level BOM			
U7	See higher level BOM			
U8	IC, SMT, Op-amp, general purpose	Analog Devices	OP-295GS	400-295
T1	Transformer, SMT, RF, 20 - 1200 MHz, n=1	Mini-Circuits	ADTL1-12	See K1
T2	Transformer, SMT, RF, 20 - 1200 MHz, n=1	Mini-Circuits	ADTL1-12	See K1
K1	Kit, includes U2, T1, and T2	Mini-Circuits	HELA-10B	400-001
Q1	Transistor, SMT, PNP	Motorola	MMBT2907ALT1	420-907
Q2	Transistor, SMT, PNP	Motorola	MMBT2907ALT1	420-907
Q3	Transistor, SMT, NPN	Motorola	MMBT3904LT1	439-041
Q4	Transistor, SMT, NPN	Motorola	MMJT9410	429-410
Q5	Transistor, SMT, NPN	Motorola	MMBT3904LT1	439-041
Q6	Not Used			
D1	See higher level BOM			
D2	See higher level BOM			
D3	Diode, SMT	Motorola	MMBD101L	410-305
D4	Diode, SMT	Motorola	MMBD101L	410-305
D5	Diode, SMT, Zener, 2.5V	Motorola	MMSZ5222BT1	415-222
D6	Diode, SMT, Zener, 13V	Vishay	BZX84C13TR	415-840
FL1	See higher level BOM			
R1	See higher level BOM			

R2	Resistor, SMT, size 1206, 274 ohms	Dale	CRCW1206-274	185-274
R3	Resistor, SMT, 3 Watt, 0.05 ohms	Dale	WSR-3-.05-1%	184-005
R4	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R5	Potentiometer, SMT, 5K ohms	Bourns	3224W-502E	108-502
R6	Resistor, SMT, size 1206, 150 ohms	Dale	CRCW1206-150	185-151
R7	Resistor, SMT, size 1206, 100 ohms	Dale	CRCW1206-100	185-101
R8	Resistor, SMT, 3 Watt, 0.1 ohms	Dale	WSR-3-.1-1%	184-001
R9	Resistor, SMT, 3 Watt, 0.1 ohms	Dale	WSR-3-.1-1%	184-001
R10	Resistor, SMT, 3 Watt, 0.1 ohms	Dale	WSR-3-.1-1%	184-001
R11	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R12	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R13	Resistor, SMT, size 1206, 15K ohms	Dale	CRCW1206-15K	185-153
R14	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R15	Not Used			
R16	Not Used			
R17	Potentiometer, SMT, 5K ohms	Bourns	3224W-502E	108-502
R18	Resistor, SMT, 3 Watt, 0.05 ohms	Dale	WSR-3-.05-1%	184-005
R19	Not Used			
R20	Potentiometer, SMT, 5K ohms	Bourns	3224W-502E	108-502
R21	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R22	Resistor, SMT, size 1206, 51.1 ohms	Dale	CRCW1206-51.1	185-51.1
R23	Resistor, SMT, size 1206, 51.1 ohms	Dale	CRCW1206-51.1	185-51.1
R24	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R25	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R26a	Resistor, SMT, size 1206, 0 ohms	Dale	CRCW1206000 ZT-X	185-000
R26b	Not Used			
R27a	Resistor, SMT, size 1206, 0 ohms	Dale	CRCW1206000 ZT-X	185-000
R27b	Not Used			
R28	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R29	Resistor, SMT, size 1206, 22.1K ohms	Dale	CRCW1206-22.1k	185-22.1K
R30	See higher level BOM			
R31	Resistor, SMT, size 1206, 3.32K ohms	Dale	CRCW1206-3.32k	185-3.32K
R32	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R33	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R34	Resistor, SMT, size 1206, 2.21K ohms	Dale	CRCW1206-2.21k	185-2.21K

R35	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R36	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R37	Not Used			
R38	Not Used			
R39	Resistor, SMT, size 1206, 2.21K ohms	Dale	CRCW1206-2.21k	185-2.21K
R40	Resistor, SMT, size 1206, 2.21K ohms	Dale	CRCW1206-2.21k	185-2.21K
R41	Resistor, SMT, size 1206, 2.21K ohms	Dale	CRCW1206-2.21k	185-2.21K
C1	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	C1206C103J5R AC	270-103
C2	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	C1206C103J5R AC	270-103
C3	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	C1206C103J5R AC	270-103
C4	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	C1206C103J5R AC	270-103
C5	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	C1206C103J5R AC	270-103
C6	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	C1206C103J5R AC	270-103
C7	Capacitor, SMT, size 1206, 4700pF, COG, 100V	Kemet	C1206C472J1 GAC	270-472
C8	Capacitor, Tantalum, SMT, size B, 10uF, 16V	Kemet	T491B106K016 AS	298-106
C9	Capacitor, SMT, size 1206, 4700pF, COG, 100V	Kemet	C1206C472J1 GAC	270-472
C10	Capacitor, Tantalum, SMT, size B, 10uF, 16V	Kemet	T491B106K016 AS	298-106
C11	Capacitor, SMT, size 1206, 4700pF, COG, 100V	Kemet	C1206C472J1 GAC	270-472
C12	Capacitor, Tantalum, SMT, size B, 10uF, 16V	Kemet	T491B106K016 AS	298-106
C13	Capacitor, Tantalum, SMT, size C, 33uF, 16V	Kemet	T491C336K016 AS	298-336
C14	Not Used			
C15	Capacitor, SMT, size 1206, 4700pF, COG, 100V	Kemet	C1206C472J1 GAC	270-472
C16	Capacitor, Tantalum, SMT, size C, 33uF, 16V	Kemet	T491C336K016 AS	298-336
C17	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	T491A105K016 AS	298-105
C18	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	T491A105K016 AS	298-105
C19	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C20	Capacitor, Tantalum, SMT, size C, 33uF, 16V	Kemet	T491C336K016 AS	298-336
C21	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	T491A105K016 AS	298-105
C22	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	T491A105K016 AS	298-105

C23	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C24	Capacitor, SMT, size 1206, .1uF, X7R, 50V	Kemet	C1206C104J5R AC	270-104
C25	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C26	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C27	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C28	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C29	Capacitor, Tantalum, SMT, size C, 33uF, 16V	Kemet	T491C336K016 AS	298-336
C30	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C31	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	T491X107K016 AS	298-107
C32	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C33	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C34	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
L1	Inductor, SMT, power, 0.68	Coilcraft	DO3316P-681HC	350-196
L2	Inductor, SMT, size 1008, 330nH	Coilcraft	1008CS-331XKBC	350-191
L3	Inductor, SMT, size 1008, 330nH	Coilcraft	1008CS-331XKBC	350-191
L4	Inductor, SMT, power, 1 uH	Coilcraft	DT1608C-102	350-197
L5	Inductor, SMT, power, 1 uH	Coilcraft	DT1608C-102	350-197
L6	Inductor, SMT, power, 1 uH	Coilcraft	DT1608C-102	350-197
L7	Inductor, SMT, size 1008, 330nH	Coilcraft	1008CS-331XKBC	350-191
P1	See higher level BOM			
P2	Connector, SMT, RF	Hirose	S.FL2-R-SMT	550-193
P3	See higher level BOM			
	Shield, exterior fencing, Power Amp	Leader Tech	47-CBSU-2.75x5.75x.4	700-268
	Shield, interior fencing, Power Amp Rev E PC board, Power Amplifier, Rev A	Marti		700-226-59 800-373B

**BOM
RPU TRANS I/O BOARD
800-379-AR**

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
C1	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C2	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102

C3	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C4	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C5	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C6	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C7	Capacitor, SMT, size 1206, 22pF, 50V	Kemet	C1206C220J5 GAC	270-220
C8	Capacitor, SMT, size 1206, 22pF, 50V	Kemet	C1206C220J5 GAC	270-220
C9	Capacitor, SMT, size 1206, 22pF, 50V	Kemet	C1206C220J5 GAC	270-220
L1	Inductor, SMT, power, 0.68	Coilcraft	DO3316P- 681HC	350-196
L2	Inductor, SMT, power, 0.68	Coilcraft	DO3316P- 681HC	350-196
L3	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L4	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L5	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L6	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L7	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L8	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L9	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
P1	Not Used			
P2	Connector, 8-pin angle, large - cut from 24-pin	Molex	26-48-6246	
P3	Connector, R. Ang. Dual Row 16-pin cut fr 80-pin	Mouser (Amp)	571-41033300	
J4	Connector, D-Sub 15 pin angle	Keltron	DNR-15PJL-SG	550-170
TB-1	Not Used			
	Screw, 4-40 x 7/16" phillips pan head (2)			500-162
	Screw, 6-32 x 1/4" phillips pan head (2)			500-020
	Brackets, #4 (2)	Keystone	612	510-210
	PC board, STL/RPU Trans I/O, Rev A			800-379B

BOM
FRONT PANEL ASSEMBLY
700-250-42A

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
	Panel, Front, SRPT-40A, metalwork & silkscreen	Marti		700-250-42
	Switch, Pushwheel, BCD 10 position (7)	Mouser	106-9905	530-087
	Switch End Cap, Right side	Mouser	106-9901	530-088
	Switch End Cap, Left side	Mouser	106-9902	530-089

LED, Indicator, Rectangular, Red (3)	Fairchild	MV57124A	417-124
LED, Indicator, Rectangular, Green (1)	Fairchild	MV54124A	414-124
Polytube, Manhatten#AF155A-20-yel (0.782")			510-005
Assembly, Pushbutton Switch, RPU			530-085A
Assembly, Toggle Switch, RPU			530-008-3
Switch, Rocker, Miniature, DPDT, Red	Mouser	629-GRS402210	530-090
Switch, slide DPDT	Switchcraft	4620	530-001
Keps nut 4 x 40 zinc 4CNKEOZ (2)			500-199
Bushing, black shorty	Microplastic	B-312-250	510-113
Assembly Board, Front Panel Control & Meter			800-378AF
Spacer, 4-40x1 hex threaded (6)	Keystone	2205	513-034
Screw, 4-40 x 1/4" phillips pan hd M/S Nickel (6)			500-004
Assembly Board, RPT-30 Pre-Amp Mixer			800-251A
Connector Shell XLR RECEPTACLE (4)			550-155-2
Screw, 4-40 x 3/8 ' phillips oval head M/S (8)			500-188
Connector, Tini-Jax	Switchcraft	41	550-083
Capacitor, .01 mf 50v GMV disc Pace			217-104
Control knob, #ME450-2023 (4)			510-215
Control knobs, #45KNO23			510-212

BOM
PUSHBUTTON SWITCH ASSEMBLY - RPU
530-085A

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
S1	Switch, Pushbutton, SPST, Momentary, Green	Mouser	103-1209	530-085
	Connector pins, Molex 16-02-0086 (2)	Molex	16-02-0086	550-205
	Connector, 4 Pin Single Row Housing			550-229
	Wire, UL1429 22/7 OS-1 White/Violet (0.220)			580-058
	Wire, UL1429 22/7 OS-1 Yellow/Violet (0.220)			580-061

BOM
TOGGLE SWITCH ASSEMBLY - RPU
530-008-3

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
S1	Switch, toggle SPDT	Apem	#5636AB16	530-008

Connector pins, (2)	Molex	16-02-0086	550-205
Connector, 4 Pin Single Row Housing			550-229
Wire, UL1429 22/7 OS-1 White/Violet (0.220)			580-058
Wire, UL1429 22/7 OS-1 Yellow/Violet (0.220)			580-061

BOM
FRONT PANEL CONTROL AND METER BOARD - FINAL ASSEMBLY
800-378AF

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
	Board Assy, Front Panel Control & Meter - SMT	Marti		800-378A
R48	Potentiometer, 5K ohms, single turn, ang. mount	Bourns	3309W-502	103-502
R49	Potentiometer, 5K ohms, single turn, ang. mount	Bourns	3309W-502	103-502
R50	Potentiometer, 5K ohms, single turn, ang. mount	Bourns	3309W-502	103-502
R51	Potentiometer, 5K ohms, single turn	Bourns	3309P-502	101-502
S1	Switch, Dip, 4-position, right angle	Apem	DA04T	530-086
S2	Switch, Rotary, 6-position	Mouser	10WA135	530-059
M1	Meter, Watts, Volts/Amps, VU			030-045M
B1	Lamp, Subminiature	Lumex	IFL-LX2162-16T	510-196
B2	Lamp, Subminiature	Lumex	IFL-LX2162-16T	510-196
P1	Connector, dual row header, 40-pin cut fr 80-pin	Mouser (Amp)	571-41033280(550-326)	550-326-40
P2	Connector, 4-pin header cut fr 36-pin	Molex	22-28-4361	550-226
P3	Connector, 4-pin header cut fr 36-pin	Molex	22-28-4361	550-226
P4	Connector, dual row header, 16-pin cut fr 80-pin	Mouser (Amp)	571-41033280(550-326)	550-326-16
P5	Connector, 6-pin header, large - cut from 24-pin	Molex	26-48-6248	550-136
P6	Connector, 8-pin header, large - cut from 24-pin	Molex	26-48-6248	550-138

BOM
FRONT PANEL CONTROL AND METER BOARD - SMT ASSEMBLY
800-378A

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
U1	IC, 8-Bit Ser/Par In, Ser Out SR	Phillips	74HC165D	401-165
U2	IC, 8-Bit Ser/Par In, Ser Out SR	Phillips	74HC165D	401-165
U3	IC, 8-Bit Ser/Par In, Ser Out SR	Phillips	74HC165D	401-165

U4	IC, 8-Bit Ser/Par In, Ser Out SR	Phillips	74HC165D	401-165
U5	IC, SMT, 8-Bit Ser In, Par Out SR	Phillips	74HC164D	401-164
U6	IC, Octal D Flip-Flop w 3-St Out	Phillips	74HC374D	401-374
U7	IC, SMT, Regulator, Adjustable, 1.5 Amps	National	LM317AEMP	401-317
Q1	Transistor, SMT, NPN	Motorola	MMBT3904LT1	439-041
Q2	Transistor, SMT, NPN	Motorola	MMBT3904LT1	439-041
Q3	Transistor, SMT, NPN	Motorola	MMBT3904LT1	439-041
Q4	Transistor, SMT, NPN	Motorola	MMBT3904LT1	439-041
R1	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R2	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R3	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R4	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R5	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R6	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R7	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R8	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R9	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R10	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R11	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R12	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R13	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R14	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R15	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R16	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R17	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R18	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R19	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R20	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R21	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R22	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R23	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k

R24	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R25	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R26	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R27	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R28	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R29	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R30	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R31	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R32	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R33	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R34	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R35	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R36	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R37	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R38	Resistor, SMT, size 1206, 182 ohms	Dale	CRCW1206-182	185-182
R39	Resistor, SMT, size 1206, 182 ohms	Dale	CRCW1206-182	185-182
R40	Resistor, SMT, size 1206, 182 ohms	Dale	CRCW1206-182	185-182
R41	Resistor, SMT, size 1206, 182 ohms	Dale	CRCW1206-182	185-182
R42	Resistor, SMT, size 1206, 68.1 ohms	Dale	CRCW1206-68.1	185-68.1
R43	Resistor, SMT, size 1206, 68.1 ohms	Dale	CRCW1206-68.1	185-68.1
R44	Resistor, SMT, size 1206, 392 ohms	Dale	CRCW1206-392	185-392
R45	Resistor, SMT, size 1206, 1.21K ohms	Dale	CRCW1206-1.21K	185-1.21K
R46	Resistor, SMT, size 1206, 432 ohms	Dale	CRCW1206-432	185-432
R47	Resistor, SMT, size 1206, 47.5K ohms	Dale	CRCW1206-47.5K	185-47.5K
R48	See higher level BOM			
R49	See higher level BOM			
R50	See higher level BOM			
R51	See higher level BOM			
R52	Resistor, SMT, size 1206, 68.1 ohms	Dale	CRCW1206-68.1	185-68.1
R53	Resistor, SMT, size 1206, 68.1 ohms	Dale	CRCW1206-68.1	185-68-1

C1	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	T491A105K016 AS	298-105
C2	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	T491A105K016 AS	298-105
C3	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C4	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	C1206C103J5R AC	270-103
S1	See higher level BOM			
S2	See higher level BOM			
M1	See higher level BOM			
B1	See higher level BOM			
B2	See higher level BOM			
P1	See higher level BOM			
P2	See higher level BOM			
P3	See higher level BOM			
P4	See higher level BOM			
P5	See higher level BOM			
P6	See higher level BOM			
PC board, Front Panel Control and Meter, Rev A				800-378B

BOM
RPT-30 Pre-Amp Mixer
800-251A

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
IC1	Integrated Circuit	Signetics	NE5532AN	405-532
IC2	Integrated Circuit	Signetics	NE5532AN	405-532
R1	Resistor, 2.21K ohm 1/4 watt 1% metal film			145-222
R2	Resistor, 1.5K ohm 1/4 watt 1% metal film			145-152
R3	Resistor, 1.5K ohm 1/4 watt 1% metal film			145-152
R4	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R5	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R6	Resistor, 15K ohm 1/4 watt 1% metal film			145-153
R7	Potentiometer, 25K ohm linear taper PC mount			100-143
R8	Resistor, 2.21K ohm 1/4 watt 1% metal film			145-222
R9	Resistor, 1.5K ohm 1/4 watt 1% metal film			145-152
R10	Resistor, 1.5K ohm 1/4 watt 1% metal film			145-152
R11	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R12	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R13	Resistor, 15K ohm 1/4 watt 1% metal film			145-153
R14	Potentiometer, 25K ohm linear taper PC mount			100-143
R15	Resistor, 2.21K ohm 1/4 watt 1% metal film			145-222
R16	Resistor, 1.5K ohm 1/4 watt 1% metal film			145-152
R17	Resistor, 1.5K ohm 1/4 watt 1% metal film			145-152
R18	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R19	Resistor, 100K ohm 1/4 watt 1% metal film			145-104

R20	Resistor, 15K ohm 1/4 watt 1% metal film			145-153
R21	Potentiometer, 25K ohm linear taper PC mount			100-143
R22	Resistor, 2.21K ohm 1/4 watt 1% metal film			145-222
R23	Resistor, 2360K ohm 1/4 watt 1% carbon film			145-364-1
R24	Resistor, 2360K ohm 1/4 watt 1% carbon film			145-364-1
R25	Resistor, 1.5K ohm 1/4 watt 1% metal film			145-152
R26	Resistor, 1.5K ohm 1/4 watt 1% metal film			145-152
R27	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R28	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R29	Resistor, 15K ohm 1/4 watt 1% metal film			145-153
R30	Potentiometer, 25K ohm linear taper PC mount			100-143
R31	Resistor, 22.1K ohm 1/4 watt 1% metal film			145-223
R32	Resistor, 22.1K ohm 1/4 watt 1% metal film			145-223
R33	Resistor, 5.6K ohm 1/4 watt 5% metal film			145-562
C1	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C2	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C3	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C4	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C5	Capacitor, SMT, size 1206, 27pF, 50V	Kemet	C1206C270J5 GAC	270-270
C6	Capacitor, SMT, size 1206, 27pF, 50V	Kemet	C1206C270J5 GAC	270-270
C7	Capacitor, 10 pf 5% NPO disc Pace F6NPO1C1			255-100
C8	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C9	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C10	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C11	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C12	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C13	Capacitor, SMT, size 1206, 27pF, 50V	Kemet	C1206C270J5 GAC	270-270
C14	Capacitor, SMT, size 1206, 27pF, 50V	Kemet	C1206C270J5 GAC	270-270
C15	Capacitor, 10 pf 5% NPO disc Pace F6NPO1C1			255-100
C16	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C17	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C18	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C19	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C20	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C21	Capacitor, SMT, size 1206, 27pF, 50V	Kemet	C1206C270J5 GAC	270-270
C22	Capacitor, SMT, size 1206, 27pF, 50V	Kemet	C1206C270J5 GAC	270-270
C23	Capacitor, 10 pf 5% NPO disc Pace F6NPO1C1			255-100
C24	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C25	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C26	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C27	Capacitor, electrolytic 22uF 25V Mepco 307			219-200

C28	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C29	Capacitor, SMT, size 1206, 27pF, 50V	Kemet	C1206C270J5 GAC	270-270
C30	Capacitor, SMT, size 1206, 27pF, 50V	Kemet	C1206C270J5 GAC	270-270
C31	Capacitor, 10 pf 5% NPO disc Pace F6NPO1C1			255-100
C32	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C33	Capacitor, electrolytic 22uF 25V Mepco 307			219-200
C34	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C35	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C36	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C37	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
S1	Switch, side action slide DPDT Ark-Les S-9		S-9022CD00-H	530-051
J1	Connector, XLR Receptacle Insert	Nuetrik	#3FD-V-I-O	550-155-1
J2	Connector, XLR Receptacle Insert	Nuetrik	#3FD-V-I-O	550-155-1
J3	Connector, XLR Receptacle Insert	Nuetrik	#3FD-V-I-O	550-155-1
J4	Connector, XLR Receptacle Insert	Nuetrik	#3FD-V-I-O	550-155-1
	Connector, 6 pin Molex angle header			550-159
	Grounding Strap, RPT-30 Pre-Amp			700-250-15
	PC board, Pre-amp/Mixer RPT-30			800-251B

BOM
TRANSMITTER SYNTHESIZER ASSEMBLY
800-375AT450

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
	Board Assembly, Trans. Syn. - Generic	Marti		800-375AT
U6	VCO, 430-480 MHz	Synergy	VFC430480	400-480
R46	Resistor, SMT, size 1206, 301K ohm	Dale	CRCW1206-301K	185-301K
R47	Resistor, SMT, size 1206, 301K ohm	Dale	CRCW1206-301K	185-301K
R48	Resistor, SMT, size 1206, 301K ohm	Dale	CRCW1206-301K	185-301K
R49	Resistor, SMT, size 1206, 301K ohm	Dale	CRCW1206-301K	185-301K
R50	Resistor, SMT, size 1206, 2.55K ohms	Dale	CRCW1206-2.55K	185-2.55K
R51	Resistor, SMT, size 1206, 2.55K ohms	Dale	CRCW1206-2.55K	185-2.55K
R65	Resistor, SMT, size 1206, 0 ohms	Dale	CRCW1206000 ZT-X	185-000
C14	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	C1206C103J5R	270-103

C15	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	AC C1206C103J5R AC	270-103
P1	Connector, R. Ang. Dual Row 16-pin cut fr 80-pin	Mouser (Amp)	571-41033240(550-325)	550-325-16
P2	Connector, R. Ang. Dual Row 20-pin cut fr 80-pin	Mouser (Amp)	571-41033240(550-325)	550-325-20
	Jumper, 2-Conductor, .1 centers (1)	Molex	15-38-1024	550-182

BOM
TRANSMITTER SYNTHESIZER BOARD ASSEMBLY - GENERIC
800-375AT

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
U1	IC, SMT, Microcontroller	Atmel	AT90S4433-8AI	409-044
U2	IC, SMT, Op-amp, quad, rail-to-rail	Analog Devices	OP-495GS	400-495
U3	Not Used			
U4	IC, SMT, Prescaler, Dual Mod, 64/65 - 128/129	Motorola	MC12054A	402-054
U5	IC, SMT, PLL Frequency Synthesizer, serial inp	Motorola	MC145158DW 2	400-158
U6	See higher level BOM			
U7	IC, SMT, Op-amp, Low Noise, High Audio BW	Analog Devices	OP-275GS	401-275
U8	IC, SMT, Op-amp, Low Noise, High Audio BW	Analog Devices	OP-275GS	401-275
U9	IC, SMT, Digital Pot., +/-15V, 10K ohms	Analog Devices	AD7376AR10	407-376
U10	IC, SMT, MMIC amplifier, 2 GHz, Broadband	NEC	UPC1678GV	400-678
U11	IC, SMT, MMIC amplifier, 2 GHz, Broadband	NEC	UPC1678GV	400-678
U12	Not Used			
U13	Not Used			
U14	IC, SMT, Regulator, Adjustable, 1.5 Amps	National	LM317AEMP	401-317
U15	Crystal, SMD, TCXO, 12.8 MHz, 5 Volt	Abrakon	ASTX-01- 12.800MHz	012-280
U16	IC, SMT, Digital Pot., 2 CH, 100K ohms	Analog Devices	AD8402AR100	408-402
Q1	Transistor, SMT, Darlington, NPN	Motorola	MMBTA14LT1	420-141
Q2	Transistor, SMT, Darlington, NPN	Motorola	MMBTA14LT1	420-141
Q3	Transistor, SMT, Darlington, NPN	Motorola	MMBTA14LT1	420-141
Q4	Transistor, SMT, Darlington, NPN	Motorola	MMBTA14LT1	420-141
Q5	Transistor, SMT, Darlington, NPN	Motorola	MMBTA14LT1	420-141
Q6	Not Used			
Q7	Transistor, SMT, NPN	Motorola	MMBT3904LT1	439-041
Q8	Transistor, SMT, NPN	Motorola	MMBT3904LT1	439-041
Q9	Transistor, SMT, NPN	Motorola	MMBT3904LT1	439-041

D1	Diode, SMT, Zener, 13V	Vishay	BZX84C13TR	415-840
D2	Diode, SMT, Zener, 5.1V	Motorola	BZX84C5V1LT	418-451
D3	Diode, SMT, Zener, 4.7V	Motorola	BZX84C4V7LT	418-447
D4	Diode, SMT, Zener, 5.1V	Motorola	BZX84C5V1LT	418-451
X1	Crystal, SMT, 7.3728 MHz, 50ppm	Epson	MA-506-7.3728M-C2	011-7.3728
R1	Resistor, SMT, size 1206, 2.74K ohms	Dale	CRCW1206-2.74K	185-2.74K
R2	Resistor, SMT, size 1206, 5.11K	Dale	CRCW1206-5.11K	185-5.11K
R3	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R4	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R5	Resistor, SMT, size 1206, 22.1 ohms	Dale	CRCW1206-22.1	185-22.1
R6	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R7	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R8	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R9	Not Used			
R10	Not Used			
R11	Resistor, SMT, size 1206, 4.75K ohms	Dale	CRCW1206-4.75k	185-4.75k
R12	Not Used			
R13	Resistor, SMT, size 1206, 100K ohm	Dale	CRCW1206-100K	185-104
R14	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R15	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R16	Resistor, SMT, size 1206, 100K ohm	Dale	CRCW1206-100K	185-104
R17	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R18	Resistor, SMT, size 1206, 10 ohms	Dale	CRCW1206-10	185-100
R19	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R20	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R21	Resistor, SMT, size 1206, 18.2 ohms	Dale	CRCW1206-18.2	185-18.2
R22	Resistor, SMT, size 1206, 18.2 ohms	Dale	CRCW1206-18.2	185-18.2
R23	Resistor, SMT, size 1206, 18.2 ohms	Dale	CRCW1206-18.2	185-18.2
R24	Resistor, SMT, size 1206, 39.2 ohms	Dale	CRCW1206-39.2	185-39.2

R25	Resistor, SMT, size 1206, 39.2 ohms	Dale	CRCW1206-39.2	185-39.2
R26	Resistor, SMT, size 1206, 15 ohm	Dale	CRCW1206-15	185-150
R27	Resistor, SMT, size 1206, 15 ohm	Dale	CRCW1206-15	185-150
R28	Resistor, SMT, size 1206, 39.2 ohms	Dale	CRCW1206-39.2	185-39.2
R29	Resistor, SMT, size 1206, 39.2 ohms	Dale	CRCW1206-39.2	185-39.2
R30	Resistor, SMT, size 1206, 2.74K ohms	Dale	CRCW1206-2.74K	185-2.74K
R31	Resistor, SMT, size 1206, 5.11K	Dale	CRCW1206-5.11K	185-5.11K
R32	Resistor, SMT, size 1206, 5.11K	Dale	CRCW1206-5.11K	185-5.11K
R33	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R34	Resistor, SMT, size 1206, 47.5 ohms	Dale	CRCW1206-47.5	185-47.5
R35	Resistor, SMT, size 1206, 10 ohms	Dale	CRCW1206-10	185-100
R36	Resistor, SMT, size 1206, 10 ohms	Dale	CRCW1206-10	185-100
R37	Resistor, SMT, size 1206, 133 ohms	Dale	CRCW1206-133	185-133
R38	Resistor, SMT, size 1206, 0 ohms	Dale	CRCW1206000 ZT-X	185-000
R39	Not Used			
R40	Not Used			
R41	Not Used			
R42	Not Used			
R43	Resistor, SMT, size 1206, 51.1 ohms	Dale	CRCW1206-51.1	185-51.1
R44	Resistor, SMT, size 1206, 3.32K ohms	Dale	CRCW1206-3.32k	185-3.32K
R45	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R46	See higher level BOM			
R47	See higher level BOM			
R48	See higher level BOM			
R49	See higher level BOM			
R50	See higher level BOM			
R51	See higher level BOM			
R52	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R53	Resistor, SMT, size 1206, 1.62K ohms	Dale	CRCW1206-1.62k	185-1.62K
R54	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R55	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R56	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R57	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R58	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R59	Resistor, SMT, size 1206, 100 ohms	Dale	CRCW1206-100	185-101

R60	Resistor, SMT, size 1206, 2.74K ohms	Dale	CRCW1206-2.74K	185-2.74K
R61	Resistor, SMT, size 1206, 5.11K	Dale	CRCW1206-5.11K	185-5.11K
R62	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R63	Potentiometer, SMT, 5K ohms	Bourns	3224W-502E	108-502
R64a	Not Used			
R64b	Not Used			
R65	See higher level BOM			
R66	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R67	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R68	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R69	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R70	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R71	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R72	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R73	Resistor, SMT, size 1206, 2.21K ohms	Dale	CRCW1206-2.21K	185-2.21K
R74	Potentiometer, SMT, 5K ohms	Bourns	3224W-502E	108-502
R75	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R76	Resistor, SMT, size 1206, 22.1K ohms	Dale	CRCW1206-22.1K	185-22.1K
R77	Resistor, SMT, size 1206, 10K ohms	Dale	CRCW1206-10k	185-103
R78	Resistor, SMT, size 1206, 100 ohms	Dale	CRCW1206-100	185-101
R79	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R80	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R81	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R82	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
R83	Resistor, SMT, size 1206, 10 ohms	Dale	CRCW1206-10	185-100
R84	Resistor, SMT, size 1206, 10 ohms	Dale	CRCW1206-10	185-100
R85	Resistor, SMT, size 1206, 133 ohms	Dale	CRCW1206-133	185-133
R86	Resistor, SMT, size 1206, 1K ohms	Dale	CRCW1206-1.0K	185-102
R87	Resistor, SMT, size 1206, 475 ohms	Dale	CRCW1206-475	185-475
C1	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	T491D107K016 AS	298-107
C2	Not Used			
C3	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	T491D107K016	298-107

C4	Capacitor, Tantalum, SMT, size D, 47uF, 16V	Kemet	AS T491D476K016	298-476
C5	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	AS T491A105K016	298-105
C6	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	AS C1206C102J1	270-102
C7	Capacitor, Tantalum, SMT, size D, 47uF, 16V	Kemet	GAC T491D476K016	298-476
C8	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	AS T491A105K016	298-105
C9	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	AS C1206C102J1	270-102
C10	Capacitor, Tantalum, SMT, size D, 15uF, 25V	Kemet	GAC T491D156K025	298-156
C11	Capacitor, Tantalum, SMT, size X, 150uF, 16V	Kemet	AS T491X157K016	298-157
C12	Capacitor, Tantalum, SMT, size D, 15uF, 25V	Kemet	AS T491D156K025	298-156
C13	Capacitor, Tantalum, SMT, size X, 150uF, 16V	Kemet	AS T491X157K016	298-157
C14	See higher level BOM			
C15	See higher level BOM			
C16	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	AS C1206C102J1	270-102
C17	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	GAC T491D107K016	298-107
C18	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	AS C1206C102J1	270-102
C19	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	GAC C1206C103J5R	270-103
C20	Capacitor, SMT, size 1206, .1uF, X7R, 50V	Kemet	AC C1206C104J5R	270-104
C21	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	AC T491A105K016	298-105
C22	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	AS T491D107K016	298-107
C23	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	AS T491D107K016	298-107
C24	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	AS T491A105K016	298-105
C25	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	AS C1206C103J5R	270-103
C26	Capacitor, SMT, size 1206, 10pF, 50V	Kemet	AC C1206C100J5	270-100
C27	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	GAC C1206C102J1	270-102
C28	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	GAC C1206C102J1	270-102
C29	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	GAC C1206C102J1	270-102
C30	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	GAC C1206C103J5R	270-103
C31	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	AC C1206C102J1	270-102
C32	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	GAC T491A105K016	298-105

C33	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	AS C1206C103J5R	270-103
C34	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	AC T491A105K016	298-105
C35	Capacitor, SMT, size 1206, .1uF, X7R, 50V	Kemet	AS C1206C104J5R	270-104
C36	Capacitor, Tantalum, SMT, size D, 47uF, 16V	Kemet	AC T491D476K016	298-476
C37	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	AS T491D107K016	298-107
C38	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	AS T491A105K016	298-105
C39	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	AS C1206C103J5R	270-103
C40	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	AC T491D107K016	298-107
C41	Capacitor, Tantalum, SMT, size B, 10uF, 16V	Kemet	AS T491B106K016	298-106
C42	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	AS T491A105K016	298-105
C43	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	AS C1206C103J5R	270-103
C44	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	AC C1206C102J1	270-102
C45	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	GAC C1206C102J1	270-102
C46	Not Used			
C47	Not Used			
C48	Not Used			
C49	Not Used			
C50	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	GAC C1206C102J1	270-102
C51	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	GAC C1206C102J1	270-102
C52	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	GAC C1206C102J1	270-102
C53	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	GAC T491D107K016	298-107
C54	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	AS T491A105K016	298-105
C55	Capacitor, SMT, size 1206, .01uF, X7R, 50V	Kemet	AS C1206C103J5R	270-103
C56	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	AC T491A105K016	298-105
C57	Capacitor, SMT, size 1206, 33pF, 50V	Kemet	AS C1206C330J5	270-330
C58	Capacitor, SMT, size 1206, 33pF, 50V	Kemet	GAC C1206C330J5	270-330
C59	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	GAC T491D107K016	298-107
C60	Capacitor, Tantalum, SMT, size D, 100uF, 16V	Kemet	AS T491D107K016	298-107
C61	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	AS C1206C102J1	270-102
C62	Capacitor, Tantalum, SMT, size A, 1uF, 16V	Kemet	GAC T491A105K016	298-105

AS

L1	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L2	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L3	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L4	Inductor, SMT, size 1008, 330nH	Coilcraft	1008CS-331XKBC	350-191
L5	Inductor, SMT, size 1008, 330nH	Coilcraft	1008CS-331XKBC	350-191
L6	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L7	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L8	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
L9	Inductor, SMT, size 1812, 10 uH	Delevan	DN-12103TR	330-024
P1	See higher level BOM			
P2	See higher level BOM			
J1	Connector, SMT, RF	Hirose	S.FL2-R-SMT	550-193
	Exterior fencing and cover, Synthesizer	Leader Tech	88-CBSU-2.25x5.75x0.8	700-226-63
	PC board, Transmitter Synthesizer, Rev A			800-375B

BOM
SRPT-40 Audio Board
800-166AS

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
IC1	Integrated Circuit	SGS	TDA1054M	401-054
IC2	Integrated Circuit	TI	LM3900N	403-900
D1	Diode, 1N4148 Philips			410-914
D2	Diode, 1N4148 Philips			410-914
D3	Diode, 1N4148 Philips			410-914
D4	Diode, 1N4148 Philips			410-914
D5	Diode, 1N4148 Philips			410-914
D6	Diode, General Instruments 1N4007			414-007
R1	Resistor, 1K ohm 1/4 watt 1% metal film			145-102
R2	Resistor, 47K ohm 1/4 watt 1% metal film			145-473
R3	Resistor, 182 ohm 1/4 watt 1% metal film			145-181
R4	Resistor, 680 ohm 1/4 watt 1% metal film			145-681
R5	Resistor, 150 ohm 1/4 watt 1% metal film			145-151
R6	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R7	Resistor, 3.32k ohm 1/4 watt 1% metal film			145-332
R8	Resistor, 3.9k ohm 1/4 watt 1% metal film			145-392
R9	Resistor, 3.3 ohm 1/4 watt 1% metal film			145-030
R10	Resistor, 3.9k ohm 1/4 watt 1% metal film			145-392
R11	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R12	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
R13	Resistor, 330 ohm 1/4 watt 1% metal film			145-331
R14	Resistor, 8.2k ohm 1/4 watt 1% metal film			145-822
R15	Resistor, 3.9k ohm 1/4 watt 1% metal film			145-392

R16	Resistor, 33k ohm 1/4 watt 1% metal film			145-333
R17	Resistor, 220 ohm 1/4 watt 1% metal film			145-221
R18	Not Used			
R19	Resistor, 2.21 meg ohm 1/4 watt 1% metal film			145-225
R20	Resistor, 470k ohm 1/4 watt 1% metal film			145-474
R21	Not Used			
R22	Potentiometer, 5K ohm cermet Bourns 3309P-			101-502
R23	Resistor, 3.32k ohm 1/4 watt 1% metal film			145-332
R24	Resistor, 2.7k ohm 1/4 watt 1% metal film			145-272
R25	Resistor, 4.75k ohm 1/4 watt 1% metal film			145-472
R26	Potentiometer, 100K ohm cermet Bourns 3309			101-104
R27	Resistor, 2.21k ohm 1/4 watt 1% metal film			145-222
R28	Resistor, 2.21 meg ohm 1/4 watt 1% metal film			145-225
R29	Resistor, 10 meg ohm 1/4 watt 5% metal film			145-106
R30	Resistor, 8.2 meg ohm 1/4 watt 5% carbon film			145-825
R31	Resistor, 221k ohm 1/4 watt 1% RN55D2213F			145-224-1
R32	Resistor, 22.1k ohm 1/4 watt 1% metal film			145-223
R33	Potentiometer, 100K ohm cermet Bourns 3309			101-104
R34	Resistor, 10K ohm 1/4 watt 1% metal film			145-103
R35	Resistor, 475k ohm 1/4 watt 1% SFR5			145-474-1
R36	Resistor, 475k ohm 1/4 watt 1% SFR5			145-474-1
R37	Potentiometer, 1meg ohm cermet Bourns 3296			101-105
R38	Resistor, 1 meg ohm 1/4 watt 1% metal film			145-105
R39	Resistor, 1 meg ohm 1/4 watt 1% metal film			145-105
R40	Resistor, 2.21 meg ohm 1/4 watt 1% metal film			145-225
R41	Resistor, 560 ohm 1/4 watt 1% metal film			145-561
R42	Resistor, 2.21 meg ohm 1/4 watt 1% metal film			145-225
R43	Resistor, 1K ohm 1/4 watt 1% metal film			145-102
R44	Resistor, 8.2k ohm 1/4 watt 1% metal film			145-822
R45	Resistor, 2.7k ohm 1/4 watt 1% metal film			145-272
R46	Resistor, 15K ohm 1/4 watt 1% metal film			145-153
R47	Resistor, 100K ohm 1/4 watt 1% metal film			145-104
	Resistor, 4.75k ohm 1/4 watt 1% metal film			145-472
C	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C1	Capacitor, 470 pf 50v 10% Y5P disc			253-471
C2	Capacitor, tantalum, 4.7 mf 16v Kem			299-470

C3	Capacitor, 106 50V Radial Electroly	219-106
C4	Capacitor, electrolytic 22uF radial	219-220
C5	Not Used	
C6	Not Used	
C7	Capacitor, .27 mf 100v 10% polypro CD MTC1	226-274
C8	Not Used	
C9	Capacitor, electrolytic 220uF 25V radial N	219-221
C10	Capacitor, 68pF 5% 200V ceramic dipped C31	256-680C
C11	Capacitor, .0082 nfd 2.5% 100v poly	215-822
C12	Capacitor, .01 mf 50v GMV disc Pace F6Z5U1	217-104
C13	Capacitor, electrolytic 220uF 25V radial N	219-221
C14	Capacitor, electrolytic 220uF 25V radial N	219-221
C15	Capacitor, 470 pf 50v 10% Y5P disc	253-471
C16	Capacitor, .1 mf 100v 10% mylar OSG	217-103
C17	Capacitor, tantalum, 4.7 mf 16v Kem	299-470
C18	Capacitor, 106 50V Radial Electroly	219-106
C19	Capacitor, tantalum, 4.7 mf 16v Kem	299-470
C20	Capacitor, .012 mfd 2.5% 100v polypro Seac	215-123
C21	Capacitor, electrolytic 22uF radial	219-220
C22	Capacitor, .012 mfd 2.5% 100v polypro Seac	215-123
C23	Capacitor, .0024 mfd 2.5% 100v polypro Sea	215-242
C24	Capacitor, 47pF 5% 200V ceramic dipped C31	255-470C
C25	Capacitor, .022 mfd 2.5% 100v polypro Seac	215-223
C26	Capacitor, .0039 mfd 2.5% 100v polypro Sea	215-392
C27	Capacitor, 47pF 5% 200V ceramic dipped C31	255-470C
C28	Capacitor, .01 mf 50v GMV disc Pace F6Z5U1	217-104
C29	Capacitor, 470 pf 50v 10% Y5P disc	253-471
C30	Capacitor, electrolytic 22uF radial	219-220
C31	Capacitor, .27 mf 100v 10% polypro CD MTC1	226-274
L1	Inductor, 387-150M 40000-1500000 uH #47271	350-032
	Rivet, CE100 7/32 steel nickel (2)	500-119
	Brackets, #6 Keystone 634 (2)	510-210
	Connector, 10 pin header (cut from	550-123
	PC board, Audio RPT-2/15/30 REV-952	800-166B

BOM
SRPT-40 Audio Regulation Board
800-168-40A

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
U1	IC, SMT, Regulator, 5A	National Semi.	LM338T	401-338
R1	Resistor, 240 ohm 1/4 watt 1% metal film			145-241-1
R2	Resistor, 2K ohm 1/4 watt 1% metal film			145-202-2
C1	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C2	Capacitor, SMT, size 1206, 1000pF, COG, 100V	Kemet	C1206C102J1 GAC	270-102
C3	Capacitor, SMT, size 1206, 1000pF, COG,	Kemet	C1206C102J1	270-102

C4	100V Capacitor, electrolytic 22uF radial	NIC	GAC UVX1V220MD A1TD	219-220
C5	Capacitor, electrolytic 22uF radial	NIC	UVX1V220MD A1TD	219-220
	Rivet, CE100 7/32 steel nickel (2)			500-119
	Brackets, #6 (2)	Keystone	634	510-210
	PC board, STL-10 Regulation			800-168-1B

BOM
TOP PANEL VENDER ASSEMBLY
700-250-40P

Part Designator	Part Description	Manufacturer	Manufacturer Part #	MARTI Part #
	Panel, Top, SRPT-40A, metalwork & silkscreen	Marti		700-250-40
	Bumper, Bruce Plastics 0772-0014 black (2)			510-205
	Rivet, CE-100 5/16" steel nickel (2)			500-126
	Washer, C-126=820W Brass/Nickel Plated (2)			500-127