

PARTS LIST INFORMATION FOR UTX5K ULTRA-2

The following exhibits constitute the parts lists for the various assemblies and the individual transmitter PC board assemblies.



PINEAPPLE TECHNOLOGY, INC.
UTX5K ULTRA-2 Operating and Service Manual

VI -- SCHEMATICS AND PARTS LIST

A. UTX5K ULTRA Assembly Tree

Item	Qty	Type	P/N	Title	Detail
Top		CAT	UTX5K-2 ULTRA	NTSC XMTR 5KW P-SYNC	470-810 MHz 1EA 6FT DEEP RACK
1	1	PL	BPU10K	BP FILTER UHF TV	10 KW P-SYNC RATING
2	2	PS	AC8100	AC WIREMOLD 120 VAC 19 IN RACK MTG	1 X 4 OUTLETS 6 FT CORD
3	2	PS	AC8220	AC WIRE MOLD 220 VAC	19 IN RACK MT
4	1	PS	851026	FAN AC 208 2000 CFM EXHAUSE	MULTIFAN VOSTERMANS 4VF1042A
7	1	CAT	ADP500	DISPLAY PANEL, ANALOG	SEL SW AND METER
8	1	CAT	AUX	AUX PANEL 5KW	USED ON 3, 4, 5 KW XMTRS
9	1	PL	ACDIS5	AC DISTRIBUTION PANEL	3-PHASE SPLIT OUT
10	1	CAT	PAS6	PA SEL SW FOR ADP500	6 POSITIONS W/1 OUTPUT
12	3	PL	MFA2PA	2KW MAIN FRAME W/U500LD AMPS	UHF/VHF ASSEMBLIES
13	2	PS	MFR44RU	44 RU ASSEMBLED RACK	MIDDLE ATLANTIC MRK-4442
14	1	PS	UC6KWN	6-WAY COMBINER UN-ISOLATED	3 1/8 EIA OUTPUT W/7/16 DIN INPUT
15	1	PL	PS12KW	12KW POWER SUPPLY COMBO	
16	6	PS	1A7052	CABLE ASSEMBLY RG-223	BNC-M TO N-M 52 INCHES LONG
17	6	PS	PAC0005	DB9 MALE TO MALE 6 FT LONG	PA MONITOR CABLE
18	1	PL	1A6006	DC CABLE SET 5KW	HIGH CURRENT ASSEMBLY
19	2	PS	MF9554A	EXHAUSE FAN SHROUD	OUTLET SIDE PANEL
20	2	PS	MF9555A	EXHAUST FAN	OUTLET SIDE PANEL
21	1	PS	MF9556A	EXHAUST FAN	FINGER GUARD
22	1	CAT	UDR100AC	UHF DRIVER AMP 100W W/AC SUPPLY	U250LD AND UDR100 AMPS
23	4	PS	MFR44RU-ZRA	Z RAILS	MIDDLE ATLANTIC MV-ZRA-44
24	1	PS	MFR44RU-SPN	SIDE PANELS FOR RACK	MIDDLE ATLANTIC SPN-44-423
25	1	PS	MFR44RU-BB	GROUNDING BAR CU	MIDDLE ATLANTIC BB-44-1
26	60	PS	INHOUSE LABOR	PTI LABOR	LOADED
27	40	PS	INHOUSE-ENG TEST	ENG TESTING AND FIXIT	LOADED
28	6	PL	1A7065	CABLE ASSEMBLY LDF4-50	UTX SERIES XMTR 7/16 DIN TO N M
29	2	PS	MF-RU1	19 INCH 1 RU FRONT PANEL	PAINTED
30	1	PS	MF-RU2	19 INCH 2 RU FRONT PANEL	PAINTED
31	1	CAT	FP-6	FUSE PANEL UTX3KWA	INC FUSE, SHUNT, SHIELD
32	1	PS	RC8	REMOTE CONTROL 8 CHANNEL	MINIMAC 01 COM-LABS
33	1	CAT	MA2000	MODULATOR, TEKNOLIGIX	
34	1	PS	DC7KW	DIRECTIONAL COUPLER 7.5 KW	2 PROBES FWRD/RFLD 1/58 EIA FLG
35	1	PL	S6	6-WAY INPHASE SPLITTER	PHASE AND GAIN ADJUSTMENTS
36	8	PS	MF9283	EQUIPMENT SUPPORT	14 GA GAL-XC (LEFT & RIGHT)
37	1	PS	AC8055	AC BARRIER TERMINAL BLOCK 5 POLE	BUSSMAN 14002-5



B. ACDIS4 AC Distribution --- PARTS LIST

Item	Qty	Type	P/N	Title	Detail
Top		PL	ACDIS4	AC DISTRIBUTION PANEL	3-PHASE POWER SPLIT OUT
1	1	PS	MF9287B	ACDIS3, 4, AND 5 CHASSIS	
2	1	PS	MF9288A	TOP, COVER BREAKER PANEL	
3	2	PS	AC4120	AC POWER SOCKET 7 PIN	BULGIN PX093/07/S
4	2	PS	AC4110	AC POWER PLUG 7 PIN	BULGIN PXA911/07/P
5	1	PS	630001	INDICATOR LITE	RED 220 VAC 1/2W
6	1	PS	AC8100	AC WIREMOLD 120 VAC 19 IN RACK MTG	1 X 4 OUTLETS 6 FT CORD
7	1	PS	460300	HW FUSE CLIP	LITTELFUSE H111505
8	1	PS	480470	MOLEX PLUG STR 3 PIN	MOLEX 39-01-4032-P
9	1	PS	AC3120	AC CKT BRKR	20 AMP SINGLE POLE
10	1	PS	AC32100	AC BKR 3-PHASE 100 AMP	W/TRIP COIL
11	7	PS	AC3220	AC CKT BRKR	20 AMP 2-POLE 220 V
12	1	PS	AC4200	AC DUPLEX OUTLET	110 VAC 15 A BLACK
13	1	PS	AC5105	AC PANEL MTG OUTLET	4 POSITION "GANGED" 15A 115VAC
14	1	PS	MF9289	PLATE, AC LINE CONNECTORS	
15	1	PS	MF9558A	ACDIS5 AUX PANEL	
16	1	PS	MF9318	FRONT PANEL ACDIS4	AC DISTRIBUTION FOR UTX5KW ULTRA



D. MFA2PA POWER AMPLIFIER -- PARTS LIST

Item	Qty	Type	P/N	Title	Detail
Top		PL	MFA2PA	2KW MAIN FRAME W/U500LD AM	UHF/VHF ASSEMBLIES
1	1	PS	MF9100E	MAIN CHASSIS	MFA1KW
2	1	PS	MF9101D	DIVIDER, PLENUM	MFA1KW
3	1	PS	MF9102C	DIVIDER, FAN	MFA1KW
5	1	PS	MF9104B	COVER, TOP	MFA1KW
10	4	PS	MF9139	SLED GUIDE	U600LP & MFA1KW
11	1	PS	MF9123D	FRONT PANEL, PAINTED	MFA1KW
14	2	PS	990199	FILTER, AIR DRY	FF-5 MFA/PS FP
16	2	PS	MF9127	MTG BRACKET, MOLEX FEMALE	MFA1KW
17	6	PS	480472	MOLEX CRIMP TERM MFA1KW	MOLEX MFG 39-00-0041
18	2	PS	480400	MOLEX PLUG 6 TERM MFA1KW	MOLEX 15-06-0065 MINI-FIT BMI
19	2	PS	460150	FUSE HOLDER PANEL MTG	3AG TYPE QC CON
20	2	PL	1A0035	PA STATUS BOARD	PC9061H
22	4	PS	INHOUSE LABOR	PTI LABOR	
24	2	PS	MF9308	FAN FINGER GUARD	MFA1KW & U600LPA
25	2	PS	MF9310	AC FAN INLET HOLDER	MFA1KW
27	2	PS	MF9258	BRACKET FILTER MTG PAINTED	U600LPA & MFA1KW
28	1	PS	MF9197B	DIVIDER PA	MFA1KW
29	2	PS	851025	FAN, AC 220 V	COMAIR ROTRON TN3A2
30	2	PS	AC5110	AC FAN PLUG & CORD	FEMALE PLUG 24 IN CORD
31	2	PS	451080	TERM BLOCK EU STYLE	4 POLE 12-24 GAGE
32	0.1	PS	H-TAPE_TFE	TEFLON TAPE, SLIDES	1 INCH X 56 INCHS
33	2	PL	PA1K	UHF 1KW PA ASSEMBLY U500LD	DIN OUTPUT W/CAPTOR FILTERS



C. UDR100AC Assy Tree

Item	Qty	Type	P/N	Title	Detail
Top		CAT	UDR100AC	UHF DRIVER AMP 100W W/AC SUPPLY	U250LD AND UDR100 AMPS
1	1	CAT	U250LD	UHF TV 250 W P-SYNC PALLET	470-810 MHz ZINGER COMBINER
2	1	CAT	UDR25A	DRIVER, 25W LINEAR 470-815 MHz	LDMOS DUAL PACKS PALLET MTG
3	1	PS	MF9337B	PANEL, FRONT	DRV100DC
4	1	PS	MF9338F	CHASSIS	DRV100-3
5	1	PS	MF9339B	DIVIDER AIR FLOW	DRV100DC
6	1	PS	MF9340B	TOP COVER DRV100DC	
7	1	PS	MF9341	DRV100 HEAT SINK	ALL DRV TYPES
8	2	PS	851005	FAN DC 24 V 80X25mm	COMAIR-ROTRON
9	2	PS	990201	FILTER & FINGER GUARD	80X25mm FAN 30 PPI
10	1	PS	631001	INDICATOR LAMP LED	GREEN 24 VDC 1/2 IN MTG HOLE
11	1	PS	484001	SW, ON/OFF ROCKER AC	CW IND. NAA-211-B121-00
12	1	PS	AC1003	FILTER, AC LINE	110/220 AC PLUG
13	1	PS	AC3110	AC CKT BREAKER	115 VAC 10 AMPS RS TYPE
14	1	PS	451004	HW TER BLOCK	#6 2X6 ROW
15	5	PS	451010	TERM BLOCK JUMPERS	2 POLE
16	1	PS	AC2010	DC POWER SUPPLY 115/220 VAC	320 WATTS 27-31 VDC
17	2	PS	CC316-NPF-PT-21	CABLE ASSEMBLY RG316/	1 N-FM PANEL MT WITH PIGTAIL
18	1	PS	481100	CON 9 P D-SUB MALE	MALE 9P SOLDER CUP
19	1	PS	140010	RES 2W 10 OHM	10 OHM
20	1	PS	140012	RES AXIAL TH 2 WATT	75 OHM METAL OXIDE



D. MFA2PA POWER AMPLIFIER
2. PA1K ASSEMBLY TREE

Item	Qty	Type	P/N	Title	Detail
Top		PL	PA1K	UHF 1KW PA ASSEMBLY U500LD PAs	DIN OUTPUT W/CAPTOR FILTERS
1	1	PL	MF9525	HS RT SIDE U500LD ASSEMBLY	BLF872 LDMOS
2	1	PL	MF9526	HS LEFT SIDE U500LD	BLF872 DEVICES
3	1	PL	MF9539	ISOLATOR & 2-WAY COMB PLATE	U1KWPA ASSEMBLY W/BLF872A
4	2	PL	U500LDA	500W 470-810 MHz POWER PALLET	RGR 4003 032 MATERIAL BLF872
5	1	PL	1A0025	DC ISO/MONITOR CKT	REPLACED CB99
6	1	PS	CT-1326A	CIR W/TABS CH 26 TO 44	Circulator 542-656 MHz
7	1	PS	270600	FT CAP CAPTOR 9 NF 500V	5/16 TERMINALS
8	1	PS	MF9126C	MOLEX BRACKET MTG PLATE	U600LD ALL
9	1	PS	MF9309	REAR PANEL WITH SILK	090 AL ALODYNE
10	1	PS	MF9203 B1	1A0025 PCB MTG PLATE	SM 09 AL W/MTG
11	1	PS	MF9137E	SLED	U500L AL
12	1	PS	454001	HANDLE, REAR	BLK NYLON
13	1	CAT	U250LD	UHF TV 250 W P-SYNC PALLET	470-810 MHz ZINGER COMBINER
14	1	PS	PC9022A_B2	PC BOARD COMB	2-WAY INPHASE 060 1/1 RG
15	1	PL	PC9518A	PCB SET OF (3) BRDS OUTPUT COMB	U1KWPA ASS'Y
16	2	PS	INHOUSE LABOR	PTI LABOR	
17	4	PS	INHOUSE-ENG TEST	ENG TESTING AND FIXIT	
18	1	PS	CA4000	COAXIAL ASSEMBLY W/7_16 DIN CON	COAX IS SUPPER FLEX



E. S6 6-WAY SPLITTER -- Assy Tree

Item	Qty	Type	P/N	Title	Detail
Top		PL	S6	6-WAY INPHASE SPLITTER	PHASE AND GAIN ADJUSTMENTS
1	1	PS	MF9333A	FRONT PANEL S10 SPLITTER	PAINTED
2	1	PS	MF9334A	S10 TOP COVER	AL 0.063 THK GOLD ALODYNE
3	1	PS	MF9335A	CHASSIS	S10
4	1	PS	MF9336A	REAR CONN PANEL	S10
5	6	PL	1A5003	UHF GAIN/PHASE MTG NETWORK	VARIABLE PHASE TUNING
6	1	PS	PC9022A_B2	PC BOARD COMB	2-WAY INPHASE 060 1/1 RG
7	2	PS	PC9023B	PCB COMB/SPLTR	R-4003 060 1/1



I-1 PAS6 SELECTOR SWITCH ASSY

Item	Qty	Type	P/N	Title	Detail
Top		CAT	PAS10	PA SEL SW FOR ADP500	10 POLE INPUT 1 OUTPUT
1	1	PS	PC9501	PA SELECTER SWITCH	10 POLE ADP500
2	1	PS	483010	SW 10 POLE	ADP500 PA SELECTOR PAS10
3	1	PS	481250	CON DB9 SUB RT ANGLE FM	METAL CASE AMP7457814
4	5	PS	481260	CON DB9 2 SECTION RT ANG	PCB MTG 0.9 SPACING
5	1	PS	MF9342X1	PLATE, FRONT PAS10	W/ PAINT & SILKSCREEN
6	1	PS	MF9343X1	CHASSIS, PAS10	W/ ALODINE & SILKSCREEN
7	1	PS	MF9344X1	COVER, TOP PAS10	W/ ALODINE & SILKSCREEN

I-2 APD500 PERFORMANCE MONITOR

Item	Qty	Type	P/N	Title	Detail
Top		CAT	ADP500	DISPLAY PANEL, ANALOG	SEL SW AND METER
1	1	PL	1A0029	ADP1000 LOGIC PCB	LOGIC BRD PARTS
2	1	PL	1A0030	ADP1000 FP PCB	FP PCB AND PARTS
3	1	PS	471306	FUSE 3AG	6 AMP
4	1	PS	460150	FUSE HOLDER PANEL MTG	3AG TYPE QC CON
5	1	PS	484001	SW, ON/OFF ROCKER AC	CW IND. NAA-211-B121-00
6	1	PS	660103	METER, 2 VOLTS FS	SELCO 39M-0-2VDC
7	1	PL	1A0027	PWR MONITOR CK	PC9052B CBR
8	1	PS	PS2527	POWER SUPPLY OPEN/FAME	110/220 VAC 27 V 25 W
9	1	PS	484020	TOGGEL SW MOMENTARY/ON	2 POLE
10	1	PS	MF9214	FRONT PANEL	PANEL FRONT ADP500
11	1	PS	MF9011	Cover, Top	ADP1000
12	1	PS	MF9209B	DIVIDER	ADP1000
13	1	PS	MF9208	CHASSIS	ADP500/1KW



J. AUX PANEL Assy Tree

Item	Qty	Type	P/N	Title	Detail
Top		CAT	AUX5K	AUX PANEL 5KW	USED ON 3, 4, 5 KW XMTRS
2	1	PS	484010	SW, EMERGENCY SHUTDOWN	NO/NC RESETABLE
3	1	PS	AC4200	AC DUPLEX OUTLET	110 VAC 15 A BLACK
4	1	PS	660110	DC PANEL METER 50 V FS	HOYT MODEL 3115 1-1/2 ANA PANEL
5	1	PS	660114	DC AMP METER 500 A FS	HOYT 3115 100mv FS
6	1	PS	AC5101	AC PANEL MT 15 AMP	3 PIN SCW MTG
7	3	PS	453000	HW, TIP JACK	RED, Insulated standard TIP JACK
8	3	PS	453001	HW TIP JACK	WHITE, Insulated standard TIP JACK
9	1	PS	453002	HW, TIP JACK	BLACK, Insulated standard TIP JACK
10	3	PS	453003	HW, TIP JACK	BLUE, Insulated Standard TIP JACK
11	3	PS	481100	CON 9 P D-SUB MALE	MALE 9P SOLDER CUP
12	3	PS	481200	CON 9P D-SUB FEMAL	DB9P SOLDER CUP
13	1	PS	630002	INDICATOR LITE	GREEN 120 VAC
14	1	PS	MF9330A	CURRENT MONITOR, REAR PANEL	SHUNT AND FUSE MTG PLATE
15	1	PS	MF9332B	CHASSIS AUX5	REAR SILK AND ALODYNE
16	1	PS	480465	MOLEX PLUG HOUSING	9 POLE MATE-LOC
17	1	PS	480466	MOLEX CAP HOUSING	9 POLE
18	1	PS	480467	MOLEX STRAIN RELIEFS	9 POLE
19	3	PS	480468	MOLEX SOCKET CONTACTS	CONN SOCKET 18-24 AWG TIN CRIMP
20	3	PS	480469	MOLEX PIN CONTACTS	CONN PIN 18-24 AWG TIN CRIMP
21	1	PS	480470	MOLEX PLUG STR 3 PIN	MOLEX 39-01-4032-P
22	1	PS	480471	MOLEX RECEPTACLE HSN 3 PIN	MOLEX 39-01-4030
25	1	PS	460150	FUSE HOLDER PANEL MTG	3AG TYPE QC CON
26	1	PS	480472	MOLEX CRIMP TERM MFA1KW	MOLEX MFG 39-00-0041
27	1	PS	480473	MOLEX CRIMP TERMINAL U600LD	MOLEX 39-00-0039 FEMALE



K. FP6 Fuse and Shunt Panel --- Assembly Tree

Item	Qty	Type	P/N	Title	Detail
Top		CAT	FP-6	FUSE PANEL UTX5K ULTRA	INC FUSE, SHUNT, SHIELD
2	6	PS	471380	FUSE FAST ACTING 80 AMP	USE WITH LFFB0001 HOLDER
3	6	PS	460190	FUSE HOLDER 400A	LITTELFUSE LFFB001
5	1	PS	MF9330A	CURRENT MONITOR, REAR PANEL	SHUNT AND FUSE MTG PLATE
6	1	PS	671000	SHUNT	1000 Amps, 100mV
7	.5	PS	INHOUSE_LAB OR	PTI LABOR	LOADED
8	.2	PS	INHOUSE-ENG TEST	ENG TESTING AND FIXIT	LOADED



D. MFA2PA POWER AMPLIFIER
1. 1A0035 STATUS BOARD PARTS LIST

Item	Qty	Type	P/N	Title	Detail
Top		PL	1A0035	PA STATUS BOARD	PC9061H
1	2	PS	114330	RES ARRAY, SMT	330 OHMS
2	5	PS	115103	RES CHIP 0805	10K OHM SMT 0805
3	1	PS	115334	RES CHIP 0805	330 K OHM SMT
4	1	PS	115563	RES CHIP 0805	56K OHM 0805 SM
5	3	PS	115682	RES CHIP 0805	6.8 K OHM SMT
6	6	PS	21X005	CAP CHIP 0805	100NF 10% XTR 0805 CASE
7	1	PS	21X008	CHIP CAP 0805	10NF 50 V 0805 SM
8	1	PS	240109	CAP TH POLYPROPYLENE	3N3 600 WVDC .033UF
9	1	PS	240110	CAP TAN SMD	3.3 UFD 35 V
10	1	PS	240111	CAP TAN SMD	47 UF 10 V TAN
11	1	PS	241300	CAP RADIAL TH	330 UF 35 VDC
12	1	PS	241301	CAP RADIAL TH	680 UF 10 V ELECTROLYTIC
13	6	PS	27022N	FT CAP 22N SM	AVX OR MURRATA PART
14	1	PS	480500	CON MICRO-FIT HEADER 3.0	8 PIN PC MTG
15	1	PS	520230	SEMI DIODE SHOTTKY	1.5 A 60 VDC D-64
16	1	PS	520275	SEMI, DIODE DUAL	SW CC 70V SOT-23
17	2	PS	530350	HEX SCHMITH TRIG	74HD14
18	1	PS	538150	IC SWITCHER SIMPLE	SO8 PAK
19	5	PS	630200	IND LED DUAL COLOR	RED/GREEN T1-3/4 CLR
20	8	PS	750001	FERRITE BEAD SMT	0805 EMI FERRITE BEAD
21	1	PS	830510	IND, W/W	82 UH .58A PWR SMD
22	1	PS	PC9061H	PA STAUS BRD	FR4 060 1/1 CBR
23	2	PS	115331	RES CHIP 0805	330 OHM SMT
24	1	PS	520120	SEMI ZENER	5.6 V MELF
25	1	PS	115683	RES CHIP 0805	68K SM
26	0.2	PS	OS_AES_1A0025	OUTSIDE ASS'Y 1A0025	ASS'Y WORK
27	0.1	PS	INHOUSE_LABOR	PTI LABOR	
28	0.1	PS	INHOUSE-ENG TEST	ENG TESTING AND FIXIT	
29	1	PS	480510	RECEPTACLE	8 CKT RECEPT MOLEX
30	1	PS	115333	RES CHIP 0805	33K OHM SMT
31	1	PS	1155112	RES 0805 CASE	51.1 K OHM 1%