

PARTS LISTS AND ASSEMBLY INFORMATION

FOR THE UTX3K ULTRA



PINEAPPLE TECHNOLOGY, INC.
UTX3K ULTRA Operating and Service Manual

VI -- SCHEMATICS AND PARTS LIST

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-84
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 STAUUS 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%



B. ACDIS2 Assy Tree

Item	Qty	Type	P/N	Title	Detail
Top		PL	ACDIS2	AC & DC DISTRIBUTION	UTX2KWA TRANSMITTERS
1	1	PS	660110	DC PANEL METER 50 V FS	HOYT MODEL 3115 1-1/2 ANA PANEL
2	1	PS	660113	DC AMP METER 300 A FS	HOYT 3115 100mv FS
3	1	PS	670300	SHUNT, METER 100 mv FS	Lightweight shunt, 100 Millivolt, 300 amp.
4	1	PS	AC3110	AC CKT BREAKER	115 VAC 10 AMPS RS TYPE
5	1	PS	AC8000	AC POWER DISTRIBUTION BLOCK	3 POLE 840 A 600 VAC
6	1	PS	AC5105	AC PANEL MTG OUTLET	4 POSITION "GANGED" 15A 115VAC
8	4	PS	AC4111	AC POWER PLUG 220AC 16A	POWER INLET SCHURTER 4300.0922
9	2	PS	480461	MOLEX CRIMP TERM PLUG	PLUG HOUSING 6 POLE
10	4	PS	480462	MOLEX CAP STRAIN RELIEF	ACDIS SUBASSEMBLIES
11	2	PS	480460	MOLEX CRIMP TERM 6 POLE	CAP HOUSING PANEL MTG
12	12	PS	480463	MOLEX PIN CONTACTS LRG	CONN PIN 14-20 AWG TIN CRIMP
13	12	PS	480464	MOLEX SOCKET CONTACTS	CONN SOCKET 14-20 AWG TIN CRIMP
14	1	PS	480465	MOLEX PLUG HOUSING	9 POLE MATE-LOC
15	1	PS	480466	MOLEX CAP HOUSING	9 POLE
16	2	PS	480467	MOLEX STRAIN RELIEFS	9 POLE
17	4	PS	471380	FUSE FAST ACTING 80 AMP	USE WITH LFFB0001 HOLDER
18	4	PS	460190	FUSE HOLDER 400A	LITTELFUSE LFFB001
19	5	PS	AC3315	AC CKT BKR ELUMINATED	U600LPA 220 15 A 2 POLE
20	1	PS	MF9312	ACDIS MAIN CHASSIS	AL 090 MATERIAL ALODYNE/W SILK
21	1	PS	MF9313	ACDIS MAIN COVER	1 & 2 KW 090 AL ALODYNE
23	1	PS	MF9311	PLATE, FRONT ACDIS2	
24	1	PS	AC3250	AC CKT BRKR	50 AMP 2-POLE 220V
25	2	PS	453000	HW, TIP JACK	RED, Insulated standard TIP JACK
26	2	PS	453001	HW TIP JACK	WHITE, Insulated standard TIP JACK
27	1	PS	453002	HW, TIP JACK	BLACK, Insulated standard TIP JACK
28	2	PS	453003	HW, TIP JACK	BLUE, Insulated Standard TIP JACK
29	1	PS	AC4302	AC CORD GRIP	0.98 OD CABLE 1.3 HOLE MTG



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	480150	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



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	270800	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	080 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 080 1/1 RG
15	1	PL	PC9518A	PCB SET OF (3) BRDS OUTPUT COMB	U1KWPA ASSY
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-1 PAS4 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

E-2 ADP500 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/FRAME	110/220 VAC 27 V 25 W
9	1	PS	484020	TOGGLE 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



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



A. UTX3K ULTRA Parts Assy

Item	Qty	Type	P/N	Title	Detail
Top		CAT	UTX3K ULTRA	UHF TV XMTR 3 KW P-SYNC	STD 19 IN RACK 6 FT WITH 1 5/8 FLG
1	1	PS	MFR40RU	40 RU ASSEMBLED RACK	BLACK CONTEMPRA 2 WELDED
3	2	PL	MFA2PA	2KW MAIN FRAME W/U500LD AMPS	UHF/VHF ASSEMBLIES
4	1	PS	AC8100	AC WIREMOLD 120 VAC 19 IN RACK MTG	1 X 4 OUTLETS 6 FT CORD
5	1	PS	AC8220	AC WIRE MOLD 220 VAC	19 IN RACK MT
6	1	CAT	ADP500	DISPLAY PANEL, ANALOG	SEL SW AND METER
7	1	PL	ACDIS2	AC & DC DISTRIBUTION	UTX2KWA TRANSMITTERS
8	1	CAT	PAS4	PA SEL SW FOR ADP500	4 POSITIONS W/1 OUTPUT
9	4	PS	1A7052	CABLE ASSEMBLY RG-223	BNC-M TO N-M 52 INCHES LONG
10	4	PS	PAC0005	DB9 MALE TO MALE 6 FT LONG	PA MONITOR CABLE
11	1	PL	1A8004	DC CABLE SET 5KW	HIGH CURRENT ASSEMBLY
12	1	CAT	UDR100AC	UHF DRIVER AMP 100W W/AC SUPPLY	U250LD AND UDR100 AMPS
13	1	PS	MFR44RU-BB	GROUNDING BAR CU	MIDDLE ATLANTIC BB-44-1
14	35	PS	INHOUSE_LABOR	PTI LABOR	LOADED
15	20	PS	INHOUSE-ENG TEST	ENG TESTING AND FIXIT	LOADED
16	4	PL	1A7065	CABLE ASSEMBLY LDF4-50	UTX SERIES XMTR 7/16 DIN TO N M
18	1	PS	MA1000	M369 CADCO MODULATOR	MODIFIED TO PTI SPECS
19	1	PL	AC2009	6KW 3EA PWR SUPPLY MAIN FRAME	UNIPOWER RRS2U
20	3	PS	AC2008	2 KW 31 VDC PWR SUPPLY	UNI-PWR TRS6000-406
22	8	PS	MF9283	EQUIPMENT SUPPORT	14 GA GAL-XC (LEFT & RIGHT)
23	1	CAT	US200-4	UHF 4-WAY SPLITTER	TYPE N 500 WATT
24	1	PS	UC3KW4NDC	3 KW N-WAY COMB W/COUPLE	1 5/8 FLG W/N INPUTS
25	1	PS	BPU3KW	BP FITER 3 KW BAND IV	COM-TECH FC4E110C
26	0.5	PS	MFR44RU-HP5	10-32 MTG SCREWS	BLACK
27	1	PS	851026	EXHAUSE	MULTIFAN VOSTERMANS 4VF1042A
28	2	PS	MF9555A	EXHAUST FAN	OUTLET SIDE PANEL
29	1	PS	MF9556A	EXHAUST FAN	FINGER GUARD



E. UC200-4 Assy Tree

Item	Qty	Type	P/N	Title	Detail
Top		CAT	US200-4	UHF 4-WAY SPLITTER	TYPE N 500 WATT