

5.0 MAINTENANCE

5.1 INTRODUCTION

Proper procedures for maintaining the transmitter are provided to ensure continued safe operation of the equipment.

5.2 RF POWER METER CALIBRATION AND AGC SET POINT ADJUST

Power calibration of the transmitter should be performed on a regular basis to ensure proper operation both under regulatory agency rules as well as transmitter specifications. It is recommended that a wattmeter line section be installed at the time of equipment installation to be used as a backup power indicator as well as a reference for power calibration.

1. The transmitter should be connected to a substantially resistive load/termination, rated to handle on an average basis, the full peak power rating of the transmitter. In both cases, any filters supplied with the transmitter must be included in the output circuit of the amplifier before the measurement point. The wrap around AGC for the transmitter must be defeated by manually adjusting the Exciter board power adjust potentiometer R84 clockwise, until the yellow status LED on the Exciter board goes on or the transmitter power reaches 110%. Use gain potentiometer R110 to reset transmitter output power to the desired level. Remove the aural carrier by switching the Aural Corrector Board AURAL CARRIER switch to the OFF position. The IF Processor Drawer must be pulled fully forward to access this switch.
2. If an Acrodyne supplied coupler section is to be used for power calibration, a microwave power meter will be necessary. The coupling sections are factory calibrated against known standards and the specific coupling values are dependent on transmitter output power.
3. Using a directional wattmeter, any plug-in element selected should provide a maximum deflection of the meter to minimize meter movement errors. The visual only power must be measured under the specific conditions of:
 - a. Visual carrier only, aural carrier off. Turn off the aural carrier using the Exciter Chassis front panel Aural Carrier ON/OFF switch.
 - b. Sync and blanking level video only (black picture) with a sync pulse amplitude of .287 volts CCIR M (40 IRE)/.30 volts CCIR B/G.
4. The transmitter peak visual power rating is multiplied by the conversion factor of 0.595 for CCIR M and .57 for CCIR B/G to obtain the

average reading that will be displayed on the wattmeter.

ex: this 1,000W (peak of sync) transmitter will display an average power of $(1,000W \times 0.595)$ or 595 watts average power under the specific conditions noted when transmitting a CCIR M standard signal. It must be remembered that it is the average power that will be displayed.

5. Set the proper visual power level using the Exciter gain pot R110. With the visual power level now established re-apply the aural carrier by switching the IF Processor Drawer AURAL CARRIER switch to the ON position. On the Aural Corrector Board adjust the AURAL POWER LEVEL potentiometer R81 clockwise until a minus 8 dB aural to visual carrier ratio is achieved as indicated on a spectrum analyzer display. Now adjust the AURAL OVERRANGE pot R111 until the aural carrier level is restored to -10 dB. The Aural Corrector Board yellow LED should be on as seen through the AURAL CARRIER ON-OFF switch access hole.
6. When both levels have been set, the transmitter RF POWER MONITOR ASSEMBLY, meter drive levels can be adjusted to provide accurate power meter indications. There is a single input level adjust to each of the three metered functions. Refer to assembly drawing 22207217 and associated board schematic for adjustment location.

The PEAK VISUAL FORWARD POWER display on the CONTROL LOGIC chassis should be monitored while adjusting R24 on the power monitor board.

The AVERAGE AURAL FORWARD POWER display on the CONTROL LOGIC chassis should be monitored while adjusting R2 on the power monitor board.

The AGC SAMPLE output of the power monitor board at TB2-11 should be monitored with a DVM while adjusting R46 on the power monitor board. R18 should be adjusted to achieve a 2.5 VDC AGC SAMPLE reading, at the power monitor TB2-11.
7. On the Aural Corrector Board adjust the AURAL OVERRANGE pot R111 until the aural carrier level is returned to minus 8 dB. Now adjust the AURAL POWER LEVEL potentiometer R81 until a minus 10 dB aural to visual carrier ratio is achieved as indicated on a spectrum analyzer display. The Aural Corrector Board green LED should be on as seen through the AURAL CARRIER ON-OFF switch access hole.

NOTE

THE SYSTEM RF METERS FOR AURAL AND VISUAL POWER ARE NOW PROPERLY ADJUSTED. THE AUTOMATIC GAIN CONTROL FOR THE AURAL CARRIER IS CALIBRATED TO BOTH THE VISUAL AND AURAL METER CALIBRATIONS. DO NOT RE-ADJUST THE AURAL METER ADJUSTMENT R6 WITHOUT REPEATING STEPS 4THROUGH 6. THE AURAL CARRIER RATIO MAY BE ADJUSTED WITH R81 ON THE AURAL CORRECTOR BOARD IF A CHANGE IN CARRIER LEVEL IS DESIRED.

8. The reflected (or reverse) power meter can now be calibrated. First, adjust output power downward using the Exciter GAIN control R110 to achieve a 10% power indication from the PEAK VISUAL FORWARD POWER meter position, then reverse the forward and reflected detected RF signals at the RF Power Monitor Assembly J21 and J2 connectors. . The forward coupler port is now attached to the reflected power input port, J72, of the power monitor board. The REVERSE POWER display on the CONTROL LOGIC chassis should be monitored adjusting on the power monitor board. Set for a 10% reverse power indication. Note that the reverse power meter scale is expanded for increased resolution.
9. Return the detector diode assemblies to their original position, and readjust R110 for an output power indication of 110%. Reset output power to 100% meter indication using POWER control R84.

5.3 VIDEO AND IF PROCESSOR ADJUSTMENTS

Video Sync AGC Adjustments

The Video Sync AGC board needs no adjustments in normal operation. Out of service checks of the operation of the board would be:

1. Verify that the output video blanking level is at 0 volts DC. Use potentiometer R18 to adjust as required.
2. Verify that the output video amplitude is one volt peak to peak for an input signal of one volt peak to peak. Adjust potentiometer R14 to adjust output level as necessary.
3. Verify that the video is as flat as possible through the board using a multiburst video test signal or a video sideband signal generator. Adjust capacitor C9 to optimize flatness.

Video Corrector Adjustments

Refer to drawing 22708899.

The Video Corrector has been adjusted at the factory to provide optimum performance at the output power level specified for the transmitter. In normal operation, there should be no need to make gross adjustments to this circuit. If the output power level of the transmitter is changed, it will be necessary to verify the performance of the differential phase and gain parameters and adjust the Video Corrector to optimize those parameters. Under no circumstances should the Video Corrector circuits be adjusted without the proper monitoring equipment. This includes a good quality TV demodulator, video waveform monitor, and vectorscope. Do not adjust any corrector controls unless you have the proper equipment to monitor the effects of the control adjustment.

When making adjustments the differential gain should be corrected first, followed by the differential phase. This procedure will produce the best results with the fewest readjustments.

There are four separate, independent differential gain correction circuits. The circuits associated with diodes CR8 and CR9 will provide a positive differential gain correction while those associated with diodes CR10 and CR11 will provide a negative differential gain correction. Potentiometers R67, R72, R77 and R82 control the amount of differential gain slope correction each circuit will provide.

Potentiometers R69, R74, R79 and R84 control the voltage level, with respect to the luminance level, at which the differential gain correction will occur. To reduce the differential gain correction, the potentiometers should adjusted CCW.

Trimmer capacitor C9 adjusts the total chroma gain curve to increase or decrease the overall chroma gain. Adjustments should be made while watching the demodulated transmitter output on the differential gain display of a vectorscope.

There are four separate independent differential phase correction circuits. The circuits associated with diodes CR4 and CR5 will provide a positive differential phase correction while those associated with diodes CR6 and CR7 will provide a negative differential phase correction. Potentiometers R47, R52, R57 and R62 control the amount of differential phase slope correction each circuit will provide.

Potentiometers R49, R54, R59 and R64 control the voltage level, with respect to the luminance level, at which the differential phase correction will occur. Adjustments should be made while watching the demodulated transmitter output on the differential phase display on a vectorscope. To reduce the

differential phase correction, the potentiometers should be adjusted CCW.

Video gain is adjusted with potentiometer R21. The video gain should be adjusted to produce a 1.0 V peak-to-peak composite amplitude at the switched output which should be terminated in 75 ohms.

The sync amplitude may be adjusted by potentiometer R40. This control should be set maximum CCW when additional sync amplitude is not required at the transmitter output.

The sync separator circuit contains two trimmer capacitors, C2 and C6. Trimmer capacitor C2 in series with inductor L1, form a chroma trap. Trimmer C2 should be adjusted to eliminate the chroma on the video signal as seen on the emitter of Q2.

Trimmer capacitor C6 in parallel with inductor L2 forms a high impedance network at the burst frequency to prevent the burst clamp pulse from distorting the burst. Trimmer C6 should be adjusted so that the burst is not affected when observing the output of the unit. Care should be taken when making this adjustment to ensure that the clamp pulse rise and fall times do not cause spikes before and after the burst. Switch S1 on the corrector circuit board controls the bypass function.

Aural Corrector Adjustments

Refer to 21712091.

Note that only the potentiometers and switches are adjusted here. (The trimmer capacitors are adjusted when the board is aligned).

The adjustments on this board are independent; they should not affect any other transmitter adjustment. However, it should be noted that part of what this board corrects for is caused by the IF Corrector. Also, a badly misadjusted Aural Corrector board could cause undesired FM, cross-mod AM, or improper aural carrier level ratio.

The adjustments are done to minimize the amplitude modulation components on the aural carrier as displayed on a spectrum analyzer. The analyzer should be set as follows: resolution band width of 3 kHz, 200 kHz scan. Adjust the corrector to minimize the peak modulation with all program audio off. It is also possible to look at a demodulator audio output in the frequency domain using a low frequency capable spectrum analyzer. Cross modulation will appear as a 15.7 kHz component and multiple harmonics thereof. They will all go down as the correction is performed. The lowest component, at 15.7 kHz, is critical and should be minimized.

Adjust the AMPLITUDE 1, SHAPE 1 and PHASE 1 controls as one group and AMPLITUDE 2, SHAPE 2 and PHASE 2 controls as a second group.

If the POLARITY switch is in center position there will be no correction. In general, switching the POLARITY to one side will reduce the cross mod and switching it to the other side will make it worse. In this case, adjust PHASE for lowest cross mod, and then fine tune AMPLITUDE. If there doesn't seem to be any change from center to either side, the AMPLITUDE needs to be increased. If both side POLARITY positions make the cross mod worse than the center, even when a different PHASE setting is tried, the AMPLITUDE may have to be reduced.

An iterative process is usually required, working between the controls of one group and then the controls of the other. While reducing the cross modulation as evidenced by amplitude modulation on the aural carrier pay attention to the sync pulse and any ringing on the leading or trailing edges. A properly adjusted Aural Corrector will minimize cross modulation as well as sync ringing.

IM Corrector Adjustment

Refer to drawing 22310680.

The potentiometers and switches are all system level controls. The trimmer capacitors, on the other hand, are adjusted when the board is aligned and should not be touched in the system. The drawing 22310680 shows the position of, and labels, the system level controls. The on/off, amplitude, phase and polarity controls are grouped into the categories Static, APL, and Master (affecting both Static and APL components). The terms STatic, PHase, Right, Left are abbreviated to ST, PH, R, L to save space in some cases.

In general, each polarity switch (R, L, R ST, L ST) has a PHase control (R PH, L PH, R ST PH, L ST PH) and an amplitude control (R, L, R ST, L ST) associated with it. When the master polarity switches (R, L) are in center position, the IM corrector operation is disabled. When the Static polarity switches (R ST, L ST) are in center-off, the Static component is disabled. During system adjustment, a polarity test should be done first. When the two "on" positions of a polarity switch are tried, there are three possible outcomes:

1. Little or no change is observed in the IM in any of the three polarity switch positions.
2. Both "on" positions make the IM worse than the "off" position.
3. One "on" makes the IM better than the "off" (the other "on" makes it worse).

In case 1 above, the appropriate amplitude control (potentiometers R, L, R ST, L ST) should be turned up (clockwise) and the polarity test repeated. In case 2 above, the appropriate amplitude control should be turned down and the polarity test repeated.

In case 3 above, the appropriate PHase control (R PH, L PH, R ST PH, L ST PH) should be adjusted to null the IM. A further null should be tried by slightly adjusting the amplitude control also.

When the board has been adjusted before, but a slight “touch-up” is needed, it is recommended that the controls in the “Master” section of the drawing 22310680 be used.

When the board is being adjusted for the first time, the recommended procedure involves using a video source capable of a fixed amount of chroma on a variable APL flat field. This can be done from a Tektronix 147A with 4.43 MHz chroma carrier (on back) looped to the auxiliary input on the front, and using the variable pedestal control on front. A Tektronix 1405 sideband can be used if an external +5 dBm fixed frequency is connected into the 1405’s LO input. The frequency is arbitrary but it should be within the 2.09 to 3.1 GHz shown on the back of the instrument. On the 1405, turn off the sync and connect the video output to a counter. Adjust the 1405’s tuning knob to get 4.43 MHz. Then turn the sync back on and connect the video to the transmitter. If these are not available, a Tektronix 140 or 146 can provide two color segments on an adjustable level flat field.

The adjustment is done by checking intermodulation products at two APL levels - perhaps 10 APL for black and 80 APL for white. At white, adjust the controls in the “Static” section (see 22310680) for lowest intermod. At black, adjust the video amplitude controls as well as the phases R PH, L PH in the Master section. If the results are not satisfactory, try a different master amplitude, or a different setting of the High/Low range switches labeled R1, R2, L1, L2.

Static ICPM Adjustments

Refer to drawing 22310680.

Start with the ICPM polarity switch in center position. Make sure the modulation level is correct. Set up the ICPM display using the quadrature output of a synchronous demodulator for horizontal input to the waveform monitor or scope. Turn on the zero carrier pulse on the demodulator. Use un-modulated staircase video. The dots corresponding to each instantaneous modulation level should form a line. If this line, when extrapolated straight, already passes through the zero carrier dot then the Static ICPM circuit does not need to be used. If not then the other dots can be shifted relative to the zero carrier dot by switching the ICPM Polarity to one side and maneuvering the ICPM amplitude and ICPM PHase. Actually on most demodulators you will see a pivoting effect due to the demodulator clamping

holding either the sync dot or the 0 APL dot (blanking level) in place. When the adjustment is complete the zero carrier dot should line up (as much as possible) with the other dots, especially the nearest ones. Also, the modulation level should not change as the polarity is switched in and out (disregard the effect from switching).

IF Linearity Corrector Adjustments

Refer to drawing 22709666.

The corrector is adjusted to primarily affect low frequency linearity performance and sync level but it also will alter the differential gain characteristics of the transmitter. It will be necessary to check the differential gain characteristics and adjust the Video Corrector as necessary after making adjustments on the IF Linearity Corrector.

The Corrector has two identical sets of adjustments called GAIN and THRESHOLD. Normally only R2/GAIN and R4/THRESHOLD are active and used. The GAIN adjustment matches the saturation curve in the transmitter output while the THRESHOLD control sets the level of Correction that is added. The Corrector is not gain compensated and while the transmitter output will be maintained at 100% by the RF Converters IF Amplifier AGC circuits, the amount of system gain over-range will change and may have to be re-adjusted when the Corrector adjustments are changed.

The GAIN and THRESHOLD adjustments should initially be considered near the optimum setting. Counter clockwise rotation of the controls minimizes the effect of the corrector. The corrector should be adjusted while monitoring the transmitter output signal low frequency linearity with a waveform monitor, and in-band intermodulation products with a spectrum analyzer capable of 100kHz resolution at 1 MHz/div, using a modulated ramp video format. A best fit correction setting will maintain 40 IRE units of sync, 5% or better low frequency linearity, and at least 52dB in band intermodulation products.

5.4 AMPLIFIER BYPASS OPERATION

In the event that one of the 650 Watt Amplifier modules experiences a failure and must be taken out of service, there is a preferred procedure for operating the transmitter with one amplifier only.

1. Begin by removing the AC mains power to the cabinet. Next, remove the disabled amplifier from the cabinet. The spring metal tabs on either side of the slides are pushed in to unlock the slides and allow the module to be pulled completely out.

2. There are seven connections that need to be disconnected from the module, four coaxial cable connections and three harness cable connections.
3. The circular multi-conductor plug contains the logic connections to and from the amplifier and must be bypassed using the mating jack connector with a single wire in place, that was supplied with the transmitter. This bypass connector is keyed and need only be connected to the cabinet cable end.
4. The output of the hybrid combiner that is connected to the remaining amplifier must be re-cabled to the directly to the output directional coupler. Remove the output cable connection from the remaining amplifier combiner and reconnect to the output directional coupler.
5. The Intermediate Power Amplifier RF outputs that connected into the removed 650 Watt Amplifier must be terminated into suitable 50 ohm loads. Two terminations are supplied with the transmitter accessory kit. Connect these to the two outputs of the IPA Chassis that were connected to the 650 Watt Amplifier that was removed.
6. Open the Exciter Drawer to access the RF POWER adjust potentiometer R84. Adjust the potentiometer fully counterclockwise. Re-apply AC mains power to the transmitter. Start the transmitter and allow. Place the EXCITER RF CONTROL switch into the AUTO position. Note that it may take a few seconds for an RF power indication due to the slow release feature of the RF CUTOFF circuits. Observe the CONTROL LOGIC multimeter "PEAK VIS POWER %" position and adjust the EXCITER POWER CONTROL to set the RF output power to 50%. Keep the transmitter at this operating power until a repaired 650 Watt Amplifier Drawer is re-installed.

5.5 RF TRANSISTOR REPLACEMENT

Should it be necessary to replace an RF transistor, select a soldering iron of proper size and wattage. A too small iron will take too long to heat the desired area possibly overheating other closely mounted components. An over sized iron may not provide enough control and again overheat components. The proper sized iron should be 30 to 40 watts. 60/40 solder is recommended.

1. Carefully remove components located around the transistor leads. The input trimmer capacitor on the base leads, must be removed by heating both sides alternately. Then the air coils must be

unsoldered at the collector points only, and slightly bent back for clearance.

2. Note the position of the transistor leads. The collector lead is the narrower lead when compared to the base lead. Unsolder the leads by applying heat and lifting up to the lead with a fine screwdriver blade or similar instrument.
3. Remove the transistor monitoring screws and damaged transistor. Clean area beneath transistor of all thermal compound and make certain there is no dirt or grit on the mounting surface. Wick excess solder off of the base and collector PCB tracks. Using the old transistor as a template, cut new transistor leads to length.
4. Use a small amount of clean thermal compound on the bottom of the new transistor and place on mounting surface.
5. It is very important to properly tighten the transistor flange. The mounting hardware should be lightly and alternately snubbed down to finger tight. Next the hardware can be tightened to approximately 5 inch pounds in at least two steps. Do not completely tighten one side to the final torque specification without tightening the other side as this may cause a failure of the transistor die.
6. Resolder transistor leads using a minimum of solder and replace the base trimmer capacitor by holding in place with a needle nose pliers and alternately heating each side until the existing solder flows to its leads. Hold the collector coils down to the board tracks and heat until solder flows to the coils.

5.6 CLEANING AND MAINTENANCE SCHEDULE

In order to obtain maximum system reliability and maintain optimum performance from the equipment, it is important to establish a systematic preventative maintenance schedule. A well constructed program will aid the operator with proper system operation. A recommended schedule is listed on the following pages.

Daily

1. Monitor and record all operating voltages and currents at a specified APL.
2. Monitor and record output making sure to check for excessive reflected power and a 10dB aural to visual ratio.
3. Check Exciter front panel LEDs.
4. Check visual modulation level and aural deviation.

Weekly

1. With power off, thoroughly inspect unit making sure to check all high current, high power connections for tightness. Tighten as required.
2. Check/clean the cooling fan input air filter. Check for unusual fan noises.
3. Measure and record key video parameters.
4. Monitor and record local oscillator frequency.

Every 2,000 Hours Of Operation

1. With power off, clean, dust, etc. from high current components, assemblies.
2. Using a sideband generator, check the tuned response of the transmitter.
3. Clean or replace air filters for input air to the transmitter room.
4. Check for loose screws, bolts, etc. on all assemblies.
5. Monitor all video parameters and spectral responses for spurious signals.

6.0 PARTS LISTS

The PARTS LISTS contained in this section are placed in increasing numerical order. All lists are identified by an eight digit number, beginning with the number 2. Tabs are placed to divide the lists into major subgroups defined by common numbers in the second and third positions of the eight digit number. Within each subgroup, the last four digits of the eight digit list number determines its placement, again in increasing numerical order.

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ASSY	DESCRIPTION
-501	STANDARD
-502	FOR USE IN 'E' TYPE EXITER
-503	STANDARD WITH STRAIGHT POT

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE
VISUAL/AURAL IF COMBINER

CODE IDENT 51336	DOCUMENT NUMBER PL21209419	REVISION F
PREPARED BY C. MOORE	DATE 5/15/95	APPROVED BY M. BRICKER
CHECKED BY J. BROOKES	DATE	SHEET 1 OF 3

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	A	ADDED -502	CMI - 2/25/97	MB - 3/97
2824	B	J1 REMOVED FROM -502	hcc - 4/97	MB - 4/97
3100	C	W1 MOVED FROM UPPER ASSEMBLY 22211152 TO HERE, UPGRADE TO WORD/ACAD	hcc - 5/98	MB - 05/97
	D	ADDED -503 ASSEMBLY VERSION.	MTS - 06/98	
3294	E	PART NUMBER 5 WAS 100B102KC5OX, #30 WAS PFK-632-40	JJC 12/21/98	DM 12/21/98
3321 3342	F	ITEMS 11 & 12 WERE RFB-1113	JJC 3/19/99	

ACRODYNE

BLUE BELL, PA

Title
**VISUAL/AURAL
IF COMBINER**

PL 21209419 rev F

PREPARED BY

hcc

SHEET NO.

2

ITEM	-501	-502	-503	-504	REFERENCE DES.	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
------	------	------	------	------	-------------------	-------------------------------	-------------	--------

1	X	X	X		X	22509478	SCHEMATIC	
2								
3								
4	2	2	2		C1,2	21CC647	CAPACITOR CHIP, 470pf	
5	1	1	1		C3	100B102MP50X	CAPACITOR CHIP, 1000pf	
6	1	1	1		C4	RPE121Z5U104M50	CAPACITOR CHIP, 0.1uf	
7	4	4	4		C5,6,8,9	199D105X0035AA1	CAPACITOR CHIP, 1uf, 35V, TANT	
8	1	1	1		C7	199D226X0035	CAPACITOR CHIP, 22uf, 35V, TANT	
9	1	1	1		CR1	1N4002	DIODE	
10	1	1	1		F1	2664000101	FERRITE BEAD	
11	2	-	2		J1,2	RFB-1111	BNC CONNECTOR	
12	-	1	-		J2	RFB-1111	BNC CONNECTOR	
13	2	2	2		L1,2	TKS2518CT	COIL	
14	-	1	1		R1	3339P-1-500	POTENTIOMETER, 50 ohm	
15	1	-	-		R1	3339W-1-500	POTENTIOMETER, 50 ohm, RIGHT ANGLE	
16	4	4	4		R2,4,8, 15	RC07GF101J	RESISTOR, 100 ohm, ¼ WATT	
17	3	3	3		R3,11,13	RC07GF510J	RESISTOR, 51 ohm, ¼ WATT	
18	4	4	4		R5,7,10, 14	RC07GF241J	RESISTOR, 240 ohm, ¼ WATT	
19	1	1	1		R6	3339P-1-500	POTENTIOMETER, 50 ohm	
20	1	1	1		R9	RC07GF620J	RESISTOR, 62 ohm, ¼ WATT	
21	1	1	1		R12	RC07GF301J	RESISTOR, 300 ohm, ¼ WATT	
22	1	1	1		R16	RC07GF100J	RESISTOR, 10 ohm, ¼ WATT	
23	1	1	1		TB1	1715721	TERMINAL BLOCK, 2 POSITION	
24	1	1	1		U1	NE5205AN	I.C. (NO SOCKET)	
25	1	1	1		VR1	7806	VOLTAGE REGULATOR	
26	1	1	1		W1	23200165-41-L-5-12	ASSEMBLY, CABLE, A3/AURAL OUT to A2E2	
27								
28								
29	1	1	1			21409418	P.C. BOARD	

ACRODYNE BLUE BELL, PA	Title VISUAL/AURAL IF COMBINER		PL 21209419 rev F	
			PREPARED BY hcc	SHEET NO. 3

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
30	2	2	2			PFC2-632-40	CAPTIVE SCREW	
31	A/R	A/R	A/R				#18 AWG BUSS WIRE	

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ACRODYNE		ACRODYNE INDUSTRIES 516 TOWNSHIP LINE ROAD BLUE BELL, PA. 19422	
TITLE			
ASSEMBLY, TRH/1KE CABINET			
CODE IDENT	DOCUMENT NUMBER		REVISION
51336	PL22111237-502		B
PREPARED BY	DATE	APPROVED BY	DATE
KPOOLE	7/97	BRICKER	8/97
CHECKED BY	DATE	SHEET 1 OF 3	

ASSY	DESCRIPTION
-501	240/120 VAC
-502	240/120 VAC, FUSE BD ,22212251, DUAL POWER SUPPLIES. WIRING DIAGRAM 22513177 REV -
-503	230 VAC SINGLE PHASE, SINGLE POWER SUPPLY,WIRING DIAGRAM 22513177 REV A.

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	A	CREATED -502 VERSION	SMJ	MB - 5/99
	B	CREATED -503 VERSION	KPOOLE	

ACRODYNE BLUE BELL, PA QUAN. REFERENCE		Title ASSEMBLY, TRH/1KE CABINET PART OR	PL22111237-502	REV. B
			PREPARED BY KPOOLE	SHEET NO. 2

ITEM	REQD.	DESIGNATION	IDENTIFYING NUMBER	DESCRIPTION	VENDER
502					
1	REF		22513177	CABINET WIRING HARNESS DIAGRAM	
2	REF		22513365	CABINET BLOCK AND CABLING DIAGRAM	
3					
4					
5	1	A1	22211753-501	ASSEMBLY, VIDEO PROCESSOR CHASSIS	
6	1	A2	24209833-506	ASSEMBLY, EXCITER CHASSIS	
7	1	A3	22211856-501	ASSEMBLY, IF PROCESSOR CHASSIS	
8	1	A4	22209840-501	ASSEMBLY, 1 WATT AMP. CHASSIS	
9	1	A5	23209084-502	ASSEMBLY, 30 WATT IPA CHASSIS	
10	2	A6, A7	24209082-501	ASSEMBLY, 600 WATT PA CHASSIS	
11	3	A8, A9, A10	22207801-501	ASSEMBLY, HYBRID COMBINER	
12	1	A11	22212251-502	ASSEMBLY, POWER SUPPLY FUSE BOARD	
13	1	A12	23208793-507	ASSEMBLY, LOAD/HEATSINK	
14	1	A13	21611236	COUPLER, 2 FORWARD PORTS, 1-5/8"	
15	1	A14	21609485-05	BANDPASS FILTER	
16	1	A15	23206588-504	ASSEMBLY, CONTROL LOGIC CHASSIS	
17	1	A16	21611227	COUPLER, 1 FORWARD/1 REVERSE, N TYPE CONNECTOR	
18	1	A17	22213117-501	ASSEMBLY, 24 V POWER SUPPLY	
19	1	A18	21607059-502	ASSEMBLY, CIRCULATOR	
20	1	A19	22212570-502	ASSEMBLY, POWER SUPPLY CONTROL CABLE	
21	1	A20	22213359-01	ASSEMBLY, SIDE PANEL RIGHT	
22	1	A21	22213359-02	ASSEMBLY, SIDE PANEL LEFT	
23	1	A22	22113371-02	ASSEMBLY, CABINET WIRE HARNESS	
24	1	A23	CL13365	CABINET CABLE LIST	
25	1	AT1	8141	LOAD, 50 OHM, 250 WATT	
26	1	AT2	8201	LOAD, 50 OHM, 500 WATT	
27	2	CB1, 2	S272-K20	CIRCUIT BREAKER, 2 POLE, 20 AMP	
28	1	CB3	374-210-101	CIRCUIT BREAKER, 1 POLE, 10 AMP	
29					
30	2	CR1, 2	CD50	DETECTOR DIODE	
31	2	PS1, 2	HC20-C1164	POWER SUPPLY, 28 VDC, 72 AMP	
32	1	S1	OETL-NF60S	SWITCH, AC MAINS	
33	1		22310957-011	AC BOX MOUNTING ANGLE	
34					

ACRODYNE BLUE BELL, PA QUAN. REFERENCE	Title ASSEMBLY, TRH/1KE CABINET	PL22111237-502	REV. B
		PREPARED BY KPOOLE	SHEET NO. 3

ITEM	REQD.	DESIGNATION	IDENTIFYING NUMBER	DESCRIPTION	VENDER
502					
35					
36					
37	1			AC BOX, 4X4X2,WITH COVER, UNPAINTED	
38	1			AC BOX, 4X4X2,WITH COVER, PAINTED GREY	
39	1		22300881	BEZEL	
40	1		22300882	BEZEL	
41	2		22301034-1	BLANK PANEL, 1.75"	
42	1		21308876	PANEL BRACKET	
43	1		22208884	CABINET SKELETON	
44					
45	1		24308379-515	CIRCUIT BREAKER PANEL, 208Y/120 VAC	
46	1		22311302	DETAIL, CIRCULATOR PLATE	
47	1		21308853	VERTICAL BLANK PANEL	
48	1		22311297	DETAIL, COMBINER MOUNTING PANEL	
49					
50	1		22307714	SAFETY SCREEN	
51	1		22307715	SAFETY SCREEN	
52	1		22307583-02	ANGLE SUPPORT	
53	2		22308381	POWER SUPPLY MOUNTING PLATE	
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					

JOB NO.	NEXT ASS'Y	USED ON	REF DES
	22203818		A3

Acrodyne Industries ACRODYNE 516 Township Line Road Blue Bell Pennsylvania 193			
TITLE ASSEMBLY VOLTAGE REGULATING CIRCUIT			
CODE IDENT		R	
51336		PL 22204219	
PREPARED BY	DATE	APPROVED	DATE
LMOORE	1/19/87	<i>[Signature]</i>	1/19/88
CHECKED BY	DATE	SHEET 1 OF 5	
<i>[Signature]</i>			

ASSY	DESCRIPTION
501	+15V REGULATED
502	+12V REGULATED
503	+ 5V REGULATED
504	+ 22V REGULATED
505	+1.5 to 4V REGULATED
506	+20V REGULATED (R2=3.6K Ω)
507	+6V REGULATED (R2=910 Ω)

REV																			
SHEET																			
REV STATUS	REV																		

	I	ADD-506 & 507	HFG	3-15-95	11/13
-	H	R4 SHOWN INCORRECTLY		10-29-93	CSM
2234	G	DELETED R2 FROM -505	SGM 4/5/93		B 4-93
	F	ADDED SHTS 4&5 ALSO R4 (505 ONLY)			P
	E	ADDED 505 ASSY		11/16/92	cm 7
	D	ADDED 504 ASSEMBLY		1-29-91	REG. CMB
1296	C	CORRECT R2 VAL FOR -503		8/20/87	ggg
-	B	ADDED 503 ASSY		7/31/87	ggg
-	A	ADDED 502 ASSY		1/22/87	RENNEN
ECN	ITD	DESCRIPTION	DATE	NAME	

Microdyne Industries
A Unit of Whittaker Corporation
116 Township Line Road
Blue Bell, Pennsylvania 19-122

TITLE

ASSY VOLTAGE REGULATING CIRCUIT

PL 22204219

PREPARED BY
C MOORE

PAGE NO
2

ITEM NO.	QTY REQ			REF DES	PART OR IDENTIFYING NO.	MANUFACTURER	DESCRIPTION	MATER SPECIFI
	501	502	503					
1								
2								
3	1	1	1	C1	50EN1		CAPACITOR 1.0 μ F 50V	
4	1	1	1	C2	199D475X00	35CA1	CAPACITOR 4.7 μ F 35V	
5	1	1	1	CR1	1N4002		DIODE	
6	4	4	4	E1-4	10ZL6-02-01		TERMINAL	
7	-	1	1	R1	RC20GF24W		RESISTOR 240 Ω 1/2 W	
8	1	-	-	R1	RC07GF241J		RESISTOR 240 Ω 1/4 W	
9	1	-	-	R2	RC07GF272J		RESISTOR 2.7K Ω 1/4 W	
10	-	1	-	R2	RC20GF202J		RESISTOR 2K Ω 1/2 W	
11	1	1	1	VR1	LM317T		VOLTAGE REGULATOR	
12	-	-	1	R2	RC20GF751J		RESISTOR 75.0 Ω 1/2 W	
13	2	2	2		9705-BB-04	40	STAND OFF	
14	1	1	1		22404218		PRINTED CIRCUIT BD.	
15	1	1	1				4-40 SCREW 3/16" LG	
16	1	1	1				#4 NUT	
17	-	-	-		RC20GF392F		RESISTOR, 3.9K Ω , 1/2 W	

ACRODYNE
BLUE BELL, PA

TITLE
ASSEMBLY

PL 22204219

REV
I

VOLTAGE REGULATING CIRCUIT

PREPARED BY
SGM

SHT. NO.
3

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	X			
19							
20	-	-	-		R4	RC07GF302J	RESISTOR, 3K Ω , 1/4W, 5%
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

ACRODYNE

ASSEMBLY VOLTAGE REGULATING CIRCUIT

PL 2204219

REV

PREPARED BY
R.E.G.PAGE 11
4

ITEM	QTY REQ				REF DES	PART OR IDENTIFYING NO.	DESCRIPTION
	504	505	506	507			
1	X	X	X	X		22204219	ASSEMBLY VOLTAGE REGULATING CIRCUIT
2							
3	1	—	1	1	C1	50EN1	CAPACITOR 1.0 μ F, 50V
4	1	—	1	1	C2	199D475X0035CA1	CAPACITOR 4.7 μ F, 35V
5	1	1	1	1	CR1	1N4002	DIODE
6	4	4	4	4	E1-E4	1026-02-01	TERMINAL
7	1	1	1	1	R1	RC20GF241J	RESISTOR 240 Ω , 1/2W
8	—	—	1	—	R2	RC20GF362J	RESISTOR 3.6 K Ω , 1/2W
9	—	1	—	—	R3	3386-H-1-501	POTENTIOMETER 500 Ω
10	—	2	—	—	C1, C2	199D106X9020CA1	CAPACITOR 10 μ F 20V
11	1	1	1	1	VR1	LM317T	VOLTAGE REGULATOR
12	—	—	—	1	R2	RC20GF911J	RESISTOR 910 Ω , 1/2W
13	2	2	2	2		9705-BB-0440	STAND OFF
14	1	1	1	1		22404218	PRINTED CIRCUIT BOARD
15	1	1	1	1			4-40 SCREW, 3/16" LONG
16	1	1	1	1			#4 NUT
17	1	—	—	—	DO		

ACRODYNE
BLUE BELL, PA

TITLE
ASSEMBLY

PL 22204219

REV
I

VOLTAGE REGULATING CIRCUIT

PREPARED BY
SGM

SHT. NO.
5

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	504	505	506	507			
19							
20	—	1	—	—	R4	RC07GF302J	RESISTOR, 3K Ω , 1/4W, 5%
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

BLUE BELL, PA

TITLE
ASSEMBLY
VHF QUADRATURE
SPLITTER/COMBINER

MANUFACTURER VERSION

PREPARED BY
MTS

REV
C

SHEET
2

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503				
1							
2							
3							
4							
5							
6	3	3	3		J1-3	21604237	RIGHT ANGLE SMA JACK
7							
8	1	-	-		R1	TT4050	POWER RESISTOR, 50 OHM, 40W
9	-	1	1		R1	125R500	RESISTOR, 50 Ohm, 1 1/2W
10	1	1	-		W1	BJC	HYBRID LINE: SEE ASSY. DWG. FOR LENGTH.
11	-	-	1		W1	BJC	HYBRID LINE: 2.5" LONG JACKET
12	1	1	1			22304165	LID
13							
14	1	1	1			22404153	P.C. BOARD
15	2	2	2			21309568	SMA COVER
16	1	1	1			23305374	HOUSING
17							
18							

JOB NO.	NEXT ASSY	USED ON	REF D:
	24207144	TRV/30KV	

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA 19422

TITLE

TRANSFORMER PCB

CODE IDENT		RE	
51336		PL22207131	
PREPARED BY	DATE	APPROVED	DATE
C. MOORE	4/27/92	J. D. Miller	5/5/92
CHECKED BY	DATE	SHEET 1 OF 2	
U. B. Miller	4-27-92		

ECN	LTR	DESCRIPTION	DATE	NAM
-----	-----	-------------	------	-----

ACRODYNE
BLUE BELL, PA

TITLE

TRANSFORMER PLBD

PL22207131

REV

-

PREPARED BY

C MOORE

SHT. NO.

2

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
1							
2							
3							
4	1				T1	LP 40-300	TRANSFORMER
5	4				TBI, 2	1715-721	TERMINAL BLOCK 2 POS
6							
7							
8	1					22407130	PL BD
9	4					350-1247-10-07-00	STANDOFF 3/16 LONG
10							
11							
12							
13							
14							
15							
16							
17							
18							

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ASSY	DESCRIPTION
-501	DIGITAL METER/15-24 VDC IN/4.5 MHZ AURAL
-502	ANALOG METER/15-24 VDC IN/4.5 MHZ AURAL
-503	DIGITAL METER/12 VDC IN/4.5 MHZ AURAL
-504	ANALOG METER/12 VDC IN/4.5 MHZ AURAL
-505	DIGITAL METER/15-24 VDC IN/ 5.5 or 6.5 MHZ AURAL
-506	ANALOG METER/15-24 VDC IN/5.5 or 6.5 MHZ AURAL
-507	DIGITAL METER/12 VDC IN/5.5 or 6.5 MHZ AURAL
-508	ANALOG METER/12 VDC IN/5.5 or 6.5 MHZ AURAL

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

Assembly, RF Power Monitor

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL22207217	M
PREPARED BY C. MOORE	DATE 1/6/94	APPROVED BY M. BRICKER
CHECKED BY M. BRICKER	DATE 5/23/94	DATE 5/23/94
SHEET 1 OF 5		

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	A	ADDED 3/4" STANDOFFS	3/26/93	JKC
2226	B	DELETED C12	5/93	JKC
2321	C	NEW PCB LAYOUT	3/94	CM
2374	D	ADDED C40 & CR12	5/94	CM
	E	CHANGED DRAWING TO REFLECT ECN 2374	5/27/94 SGM	MB 6/3/94
2445	F	CHANGED J1 & J2 PART #	MTS 5/15/95	
	G	UPDATED ITEMS 98,99 & 100	MTS 9/29/95	
2909	H	ADDED R78	HFG 9/97	MB 9/97
2983	I	ITEMS 11 & 12 WERE CK06BX104K	HFG 12/97	MB 1/98
3026	J	ECN CHANGED & UPGRADED EVERYTHING TO WORD/ACAD	hcc 3/98	
3124	K	CHANGED QUANTITY OF #98, FIXED PART #'S ON #197, 108	JJC 6/98	MV 6/98
	L	NEW ARTWORK, CHIP CAPS FOR 0.1 UF'S, CORRECTED LINE 17.	MMC 7/98	
3307	M	CHANGED P/N ITEMS 37, 38 ,39	AJG 12/98	

ACRODYNE
BLUE BELL, PA

Title
**Assembly, RF Power
Monitor**

PL 22207217 rev M

PREPARED BY
C. MOORE

SHEET NO.
2

QUANTITY REQUIRED									REFERENCE	PART OR	DESCRIPTION
ITEM	-501	-502	-503	-504	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER	
1	X				X				X	23507062	SCHEMATIC
2		X				X			X	23508231	SCHEMATIC
3			X				X		X	23508230	SCHEMATIC
4				X				X	X	23508232	SCHEMATIC
5	2	2	2	2					C2,4	DM15-561J	CAPACITOR, 560 pf
6	2	2	2	2					C3,5	DM15-471J	CAPACITOR, 470 pf
7					2	2	2	2	C2,4	DM15-471J	CAPACITOR, 470 pf
8					2	2	2	2	C3,5	DM15-431J	CAPACITOR, 430 pf
9	1	1	1	1	1	1	1	1	C16	CK05BX103K	CAPACITOR, 0.01uf
10	1	-	1	-	1	-	1	-	C39	CK05BX103K	CAPACITOR, 0.01uf
11	12	12	12	12	12	12	12	12	C12,18, 20,22-29,38	GRM42-6X7R104K050BL	CAPACITOR, 0.1uf
12	1	-	1	-	1	-	1	-	C30	GRM42-6X7R104K050BL	CAPACITOR, 0.1uf
13	1	1	1	1	1	1	1	1	C1	DM10-161J	CAPACITOR, 160pf
14	4	4	4	4	4	4	4	4	C13,17,34,35	199D106X9020CAI	CAPACITOR, 10uf, 20V, TANT
15	2	2	2	2	2	2	2	2	C19,21	199D225X0035BAI	CAPACITOR, 2.2uf, 35V, TANT
16	4	4	4	4	4	4	4	4	C7,8, 36,37	199D476X96R3D	CAPACITOR, 47uf, 63V, TANT
17	2	2	-	-	2	2	-	-	C31,32	199D106X9020CAI	CAPACITOR, 10uf, 20V TANT
18	2	2	2	2	2	2	2	2	C6,C40	10ENIT	CAPACITOR, 1000uf, 10V
19	1	1	1	1	1	1	1	1	C33	TLB1H102M	CAPACITOR, 1000uf, 50V
20	9	9	9	9	9	9	9	9	F1-9	DST310-SSY55-223M	FILTER ELEMENT
21	3	3	3	3	3	3	3	3	E1-6	65507-436	TWO PIN HEADER
22	4	-	4	-	4	-	4	-	C10,11,14,15	199D105X0035CA	CAPACITOR, 1uf, 35V, TANT
23	1	1	1	1	1	1	1	1	C9	199D475X0035CA	CAPACITOR, 4.7uf, 35V, TANT
24											
25	3	3	3	3	3	3	3	3	J1-3	RFB-1111	BNC JACK
26											
27	2	2	2	2	-	-	-	-	L1,3	1025-36	INDUCTOR, 4.7uH
28	1	1	1	1	-	-	-	-	L2	1025-20	INDUCTOR, 1.0uH
29											
30	1	1	1	1	1	1	1	1	CR12	1N914	DIODE
31	3	3	3	3	3	3	3	3	CR6,10,11	1N4007	DIODE

ACRODYNE

BLUE BELL, PA

Title
**Assembly, RF Power
Monitor**

PL 22207217 rev M

PREPARED BY

C. MOORE

SHEET NO.

3

QUANTITY REQUIRED									REFERENCE	PART OR	DESCRIPTION
ITEM	-501	-502	-503	-504	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER	
32	1	1	-	-	1	1	-	-	CR9	1N4007	DIODE
33	2	2	2	2	2	2	2	2	CR4,8	1N4148A	DIODE
34	3	3	3	3	3	3	3	3	CR1,3,7	1N5711	DIODE
35	2	2	2	2	2	2	2	2	CR2,5	35BL504	LED, RED
36	1	1	1	1	1	1	1	1	Q1	2N3904	TRANSISTOR
37	3	3	3	3	3	3	3	3	R6,24,65	3339P-1-102	POTENTIOMETER, 1.0K OHM
38	1	1	1	1	1	1	1	1	R46	3339P-1-103	POTENTIOMETER, 10K OHM
39	1	1	1	1	1	1	1	1	R22	3339P-1-104	POTENTIOMETER, 100K OHM
40	1	1	1	1	1	1	1	1	R3	RN55C49R9F	RESISTOR, 49.9 OHM, 1/8W, 1%
41	2	2	2	2	2	2	2	2	R8,30	RN55C2000F	RESISTOR, 200 OHM, 1/8W, 1%
42	2	2	2	2	2	2	2	2	R4,7	RN55C374OF	RESISTOR, 374 OHM, 1/8W, 1%
43	5	5	5	5	5	5	5	5	R26,27, 63,68,71	RN55C1001F	RESISTOR, 1.00K OHM, 1/8W, 1%
44	2	2	2	2	2	2	2	2	R15,50	RN55C1821F	RESISTOR, 1.82K OHM, 1/8W, 1%
45	1	1	1	1	1	1	1	1	R31	RN55C2211F	RESISTOR, 2.21K OHM, 1/8W, 1%
46	-	1	-	1	-	1	-	1	R33	RN55C6191F	RESISTOR, 6.19K OHM, 1/8W, 1%
47	-	1	-	1	-	1	-	1	R13	RN55C7501F	RESISTOR, 7.50K OHM, 1/8W, 1%
48	2	2	2	2	2	2	2	2	R14,49	RN55C8251F	RESISTOR, 8.25K OHM, 1/8W, 1%
49	1	1	1	1	1	1	1	1	R11	RN55C1002F	RESISTOR, 10.0K OHM, 1/8W, 1%
50	1	1	1	1	1	1	1	1	R59	RN55C5622F	RESISTOR, 56.2K OHM, 1/8W, 1%
51	1	1	1	1	1	1	1	1	R56	RN55C2742F	RESISTOR, 27.4K OHM, 1/8W, 1%
52	1	1	1	1	1	1	1	1	R45	RN55C3322F	RESISTOR, 33.2K OHM, 1/8W, 1%
53	1	1	1	1	1	1	1	1	R12	RN55C1003F	RESISTOR, 100K OHM, 1/8W, 1%
54	2	2	2	2	2	2	2	2	R1,2	RC07FG4R7J	RESISTOR, 4.7 OHM, 1/4W
55	4	4	4	4	4	4	4	4	R9,10, 25,64	RC07GF100J	RESISTOR, 10 OHM, 1/4W
56	5	5	5	5	5	5	5	5	R17,40, 48,51,58	RC07GF101J	RESISTOR, 100 OHM, 1/4W
57	2	2	2	2	2	2	2	2	R66,67	RC07GF201J	RESISTOR, 200 OHM, 1/4W
58	1	1	1	1	1	1	1	1	R5	RC07GF301J	RESISTOR, 300 OHM, 1/4W
59	1	1	1	1	1	1	1	1	R52	RC07GF511J	RESISTOR, 510 OHM, 1/4W
60	10	10	10	10	10	10	10	10	R16,29, 54,61,62,69,70, 73,75,77	RC07GF102J	RESISTOR, 1K OHM, 1/4W
61	2	2	2	2	2	2	2	2	R43,44	RC07GF512J	RESISTOR, 5.1K OHM, 1/4W

ACRODYNE

BLUE BELL, PA

Title
**Assembly, RF Power
Monitor**

PL 22207217 rev M

PREPARED BY

C. MOORE

SHEET NO.

4

QUANTITY REQUIRED									REFERENCE	PART OR	DESCRIPTION
ITEM	-501	-502	-503	-504	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER	
62	1	1	1	1	1	1	1	1	R39	RN55C3321F	RESISTOR, 3.32K OHM, 1/8W, 1%
63	1	1	1	1	1	1	1	1	R23	RC07GF303J	RESISTOR, 30K OHM, 1/4W
64	1	1	1	1	1	1	1	1	R47	RN55C5112F	RESISTOR, 51.1K OHM, 1/8W, 1%
65	3	3	3	3	3	3	3	3	R41,42,55	RC07GF104J	RESISTOR, 100K OHM, 1/4W
66	1	1	1	1	1	1	1	1	R57	RC07GF435J	RESISTOR, 4.3M OHM, 1/4W
67	1	1	1	1	1	1	1	1	R72	RC07GF105J	RESISTOR, 1M OHM, 1/4W
68	2	-	2	-	2	-	2	-	R18,35	RC07GF101J	RESISTOR, 100 OHM, 1/4W
69	4	-	4	-	4	-	4	-	R19,20, 36,38	RC07GF202J	RESISTOR, 2K OHM, 1/4W
70	2	-	2	-	2	-	2	-	R21,37	RC07GF103J	RESISTOR, 10K OHM, 1/4W
71	1	1	1	1	1	1	1	1	R60	RN55C2491F	RESISTOR, 2.49K, 1/8W, 1%
72	1	1	1	1	1	1	1	1	R76	RN55C3012F	RESISTOR, 30.1K, 1/8W, 1%
73	1	1	1	1	1	1	1	1	S1	21607023	SWITCH, SPDT, PCB MOUNTED
74	1	1	1	1	1	1	1	1	R74	RC07GF302J	RESISTOR, 3.0K, 1/4W
75	-	1	-	1	-	1	-	1	R53	RN55C8251F	RESISTOR, 8.25K, 1/4W
76	12	12	12	12	12	12	12	12	TB2	1740000	TERMINAL BLOCK, 3 POSITION
77	-	-	-	-	-	-	-	-	TB1	1715734	TERMINAL BLOCK, 3 POSITION
78	1	1	1	1	1	1	1	1	U1	EL2444CN	IC (NO SOCKET)
79	2	2	2	2	2	2	2	2	U2,3	CA324	IC
80	1	1	1	1	1	1	1	1	U4	AD844AN	IC (NO SOCKET)
81	2	-	2	-	2	-	2	-	U5,7	MPY600	IC
82	1	-	1	-	1	-	1	-	U6	LM358	IC
83	1	1	1	1	1	1	1	1	U8	LM311	IC
84	1	1	1	1	1	1	1	1	U9	MAX660	IC (NO SOCKET)
85											
86	1	1	-	-	1	1	-	-	VR1	7812	VOLTAGE REGULATOR, 12V
87	1	1	1	1	1	1	1	1	VR2	7805	VOLTAGE REGULATOR, 5V
88	1	1	1	1	1	1	1	1	R78	RC05GFR155J	RESISTOR, 1.5M OHM, 1/8W
89											
90											
91	4	4	4	4	4	4	4	4		9543-BB-0440	STANDOFF, 4-40 X 7/8" LONG
92	1	1	1	1	1	1	1	1		234407218	PCB
93	3	-	3	-	3	-	3	-		15-38-1024	JUMPER (E1-E2 & E3-E4 & E5-E6)
94	2	2	2	2	2	2	2	2		CA14CS2-TSD	IC SOCKET, 14 PIN (U2 & 3)

ACRODYNE
BLUE BELL, PA

Title
**Assembly, RF Power
Monitor**

PL 22207217 rev M

PREPARED BY
C. MOORE

SHEET NO.
5

ITEM	QUANTITY REQUIRED								REFERENCE	PART OR	DESCRIPTION
	-501	-502	-503	-504	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER	
95	2	-	2	-	2	-	2	-		CA16CS2-TSD	IC SOCKET, 16 PIN (U5 & 7)
96	2	-	2	-	2	-	2	-		C8408-026	IC SOCKET, 8 PIN (U6 & 8)
97	-	1	-	1	-	1	-	1		C8408-026	IC SOCKET, 8 PIN (U8)
98	-	3	-	3	-	3	-	3		15-38-1024	JUMPER (E1-E2 & E3, E4, E5, E6)
99											
100											
101	1	-	2	1	1	-	2	1			BUSS WIRE #22
102											
103	2	2	1	1	2	2	1	1			#4 SCREW, 5/16" LONG
104	2	2	1	1	2	2	1	1			#4 LOCK WASHER
105	2	2	1	1	2	2	1	1			#4 NUT
106											
107	-	-	-	-	2	2	2	2	L1,3	1025-32	INDUCTOR, 3.3uH
108	-	-	-	-	1	1	1	1	L2	1025-18	INDUCTOR, .82uH
109	1	1	1	1	1	1	1	1			THERMAL COMPOUND
110	1	1	1	1	1	1	1	1		24308672-01	HOUSING
111	1	1	1	1	1	1	1	1		24308672-02	END
112	1	1	1	1	1	1	1	1		24308672-03	END
113											
114											
115											
116											
117											
118											
119											
120											

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ASSY	

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

Assembly, Miniature Gain Block

CODE IDENT

51336

DOCUMENT NUMBER

PL22207295

REVISION

B

DATE

6/19/92

APPROVED BY

M. BRICKER

DATE

2/13/98

C.Moore

CHECKED BY

DATE

SHEET 1 OF 2

ECN	LTR		REVISED BY	APPROVED BY
3021	A		hcc - 1/98	
3093		ADDED C12 AS PER. ECN INSTRUCTIONS.		

ACRODYNE BLUE BELL, PA	Title Assembly, Miniature Gain Block		PL 22207295 rev B	
			PREPARED BY C. Moore	SHEET NO. 2

QUANTITY REQUIRED				REFERENCE	PART OR			
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER	DESCRIPTION	VENDER

1	X					21507221	Schematic	
2								
3	1					22407294	Printed Circuit Board	
4								
5	4				C1,4,5,7	RPE121Z5U104M50	Capacitor: 0.1uF	
6	1				C2	199D225X0035BAI	Capacitor: 2.2uF, 35V, Tant	
7	1				C3	199D475X0035CAI	Capacitor: 4.7uF, 35V, Tant	
8	1				C6	199D106X0035	Capacitor 10uF: 35V, Tant	
9	4				C8-11	100B102MP50X	Chip Capacitor: 1000pF	
10	1				C12	100B100JP500X	Capacitor: 10pF	
11	1				CR1	1N4007	Diode	
12								
13	1				B1	2664000101	Ferrite Bead	
14	1				R1	RC20GF101J	Resistor, 1/2W, 100 ohm	
15								
16	1				U1	NE5205AN	I.C.	
17	1				VR1	MC7812CT	Voltage Regulator	
18	1				VR2	MC7905CT	Voltage Regulator	
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								

JOB NO.	NEXT ASSY	USED ON	REF DES

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE RD
BLUE BELL, PA 19422

ASSY YHF HIGH BAND HYBRID
SPLITTER / COMBINER

CODE IDENT	PL 22207801	RE
51336		T
PREPARED BY JKC	DATE 4/13/93	APPROVED
CHECKED BY	DATE	SHEET 1 OF 3

501 = CHANNEL 7-10
502 = CHANNEL 11-13

3110	D	ADDED LABELS TO DRAWING FOR CLARITY	6/26/98	JKC
	C	REMOVED ITEM # 19, CHANGED PN. FOR ITEM # 7 (WAS 22308034-01) CORRECTED PN. FOR ITEM # 8 (WAS 23N-50-1/133) CH 5128136	7/23/96	Cm
	B	CHANGED PART ID FOR ITEM # 8 2/2/96 CH		
2438	A	ITEM 5 WAS 3/8" PIPE CI-4 WAS SIZE 9	6/26/98	Cm
ECN	LTR	DESCRIPTION	DATE	NAM

ACRODYNE BLUE BELL, PA					TITLE VHF HIGH ASSEMBLY HYBRID SPLITTER/COMBINER		PL22207801	REV D
					PREPARED BY JKC		SHT. NO 2	
ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION	
	501	502	503	504				
1								
2	1	1				23208034 SHT2	MANUFACTURING ASSEMBLY	
3	1	1				23308705-9	HYBRID BOX	
4							F	
5	2	2				22308030-06	3/8" DIA. SOLID COPPER ROD.	
6								
7	2	2				22308031-02	END COVER	
8	4	4				23N-50-0-1/133	"N" STRAIGHT JACK FLANGE RECEPTACLE	
9	1	1					MYLAR FILM 2.00" X 11.88	
10	4	-			C1-4	UNKNOWN	CAPACITOR	
11	4	4				1414-4	#8 GROUND LUG	
12	4	4					#12 BUSS WIRE .85" LG	
13	-	4			C1-4	100B2R70CA500	CAPACITOR 2.7 PF CHIP (CH13)	
14	4	4					4-40 NUT	
15	12	12					4-40 SCREW PAN HEAD 1/4" LG	
16	4	4					4-40 SCREW PAN HEAD 3/8" LG	
17	8	8					2-56 SCREW PAN HEAD 1/4" LG	
18								

ACRODYNE
BLUE BELL, PA

TITLE
VHF HIGH ASSEMBLY HYBRID
SPLITTER/COMBINER

PL 22207801

REV
D

PREPARED BY

JKC

SHT NO

3

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
19							
20	2	2					#6-32 X 3/4" PAN HEAD SCREW
21	2	2					#6-32 NUT
22	2	2					#6-32 LOCK WASHER
23	2	2					#6-32 FLAT WASHER
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

JOB NO.	NEXT ASSY.	USED ON	REF. DES.
	23209084		
	23208743		

ASSY	DESCRIPTION
501	WITH 5V PULL-UP RESISTORS.
502	W/OUT 5V PULL-UP RESISTORS.
503	SAME AS -502 WITH STRAIGHT TB1.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE
SOLID STATE AMP. CNTRL. CIRCUIT ASSEMBLY

CODE IDENT 51336	DOCUMENT NUMBER PL22208858	REVISION A
PREPARED BY HFG	DATE 10/94	APPROVED BY M. BRICKER
CHECKED BY M.B.	DATE 12.94	SHEET 1 OF 3

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	A	CONVERTED TO CAD	CSM	

ACRODYNE

BLUE BELL, PA

Title
**SOLID STATE AMP. CNTRL.
CIRCUIT ASSEMBLY**

PL 22208858 rev A

PREPARED BY

HFG

SHEET NO.

2

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
1	X	X	X			22508959	SCHEMATIC
2							
3	1	1	1		C1	199D106X0035DAI	CAPACITOR: 10Uf, 35V TANT
4	1	1	1		C2	GRM42-6C0G102J050BD CHIP CAP	CAPACITOR: 0.001Uf
5	4	4	4		C3-6	GRM42-6X7R104K050BL CHIP CAP.	CAPACITOR: 0.1Uf
6							
7	4	4	4		CR1,2,6 & 8	1N4007	DIODE
8	1	1	1		CR3	5082-4855	DIODE: LIGHT EMITTING, RED
9	2	2	2		CR4,5	5082-4950	DIODE: LIGHT EMITTING, GREEN
10	1	1	1		CR7	1N4749A	DIODE: 24V, ZENER
11							
12	3	3	3		FL1-3	DST310-55Y55-223M	LOWPASS FILTER
13							
14	1	1	1		Q1	2N3904	TRANSISTOR: NPN
15	1	1	1		Q2	2N3053	TRANSISTOR: NPN
16							
17	1	1	1		R1	RC07GF113J	RESISTOR: 11K OHM, 1/4W
18	1	1	1		R2	RC07GF202J	RESISTOR: 2K OHM, 1/4W
19	1	1	1		R3	RC07GF751J	RESISTOR: 750 OHM, 1/4W
20	1	1	1		R4	RC07GF272J	RESISTOR: 2.7K OHM, 1/4W
21	1	1	1		R5	RC07GF104J	RESISTOR: 100K OHM, 1/4W
22	3	3	3		R6,11, & 12	RC07GF102J	RESISTOR: 1K OHM, 1/4W
23	1	1	1		R7	RC07GF151J	RESISTOR: 150 OHM, 1/4W
24	1	-	-		R8	RC20GF112J	RESISTOR: 1100 OHM, 1/2W
25	1	-	-		R9	RC20GF751J	RESISTOR: 750 OHM, 1/2W
26	1	1	1		R10	RC07GF821J	RESISTOR: 820 OHM, 1/4W
27	1	1	1		R13	RC07GF103J	RESISTOR: 10K OHM, 1/4W

ACRODYNE BLUE BELL, PA	Title SOLID STATE AMP. CNTRL. CIRCUIT ASSEMBLY		PL 22208858 rev A	
			PREPARED BY HFG	SHEET NO. 3

QUANTITY REQUIRED				REFERENCE	PART OR	IDENTIFYING NUMBER	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.			
28	1	1	1		R14	RC07GF152J	RESISTOR: 1.5K OHM, 1/4W	
29								
30	1	1	1		S1	21606599	SWITCH: SPDT, PCB MOUNT (ON-OFF-ON)	
31								
32	3	3	-		TB1	1733583	TERMINAL BLOCK: 3 POSITION (PHOENIX-45 DEG.)	
33	-	-	3		TB1	1715734	TERMINAL BLOCK: 3 POSITION.	
34								
35	1	1	1		U1	LM311	IC: COMPARATOR WITH STROBE	
36								
37	1	1	1			22408859	PC BOARD	
38	3	3	3			44F5289	LED SPACER	
39	1	1	1			C8408-026	IC SOCKET: 8 PIN (U1)	
40	4	4	4			350-1247-12-07-00	SPACER: 3/8" LONG, #4 CLEAR.	
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

JOB NO.	NEXT ASSY.	USED ON	REF. DES.
	223209084	TRH/500	
	24209082	TRH/500	

ASSY	DESCRIPTION
-501	IPA METERING(2 SIDES)
-502	IPA METERING(1 SIDE) 100 Ω CURRENT LIMIT
-503	IPA METERING 10 Ω CURRENT LIMIT
-504	SINGLE AMP. METERING, 24211410
-505	IPA METERING(2 SIDES)

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

ASSEMBLY, UNIVERSAL SWITCH BOARD

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL22209040	F
PREPARED BY MTS	DATE 12/22/94	APPROVED BY WFS
CHECKED BY	DATE	DATE 6/14/97
SHEET 1 OF 2		

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	A	DESCRIBED -501, -502.	CSM 6/24/97	CSM 6/97
2967	B	ADDED -503 ASSY.	HFG 9/26/97	MB 10/97
	C	ADDED -504 ASSY.	MTS 10/97	MB 10/97
3048	D	ADDED -505 ASSY. ADD ITEMS 17 - 21 PER ECN	HFG 3/98	
	E	REMOVED PIN PLACEMENT DWGS. 21309574 & ADDED INFO. TO PAGE 2 OF DWG.	SMJ 4/99	
	F	CHANGES TO DRAWING ONLY	SMJ 5/99	

BLUE BELL, PA

Title
**ASSEMBLY, UNIVERSAL
SWITCH BOARD.**

PL 22209040 Rev F

PREPARED BY

MTS

SHEET NO.

2

[illegible]

JOB NO.	NEXT ASSY	USED ON	REF DES
	24208419		

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA 19422

TITLE

ASSY AURAL MODULATOR

CODE IDENT

51336

PL 22209276

REV

F

PREPARED BY

cm

DATE

3/2/95

APPROVED

W. B. Miller

DATE

3-95

CHECKED BY

W. B. Miller

DATE

3/95

SHEET 1 OF 4

ASSY DESCRIPTION

501	41.25 MHz Aural	(-4.5)	WITH
502	33.4 MHz Aural	(-5.5)	SPACERS
503	32.9 MHz Aural	(-6.0)	

FILE COPY

3321	F	PART NUMBER RFB-1111 WAS RFB-1113	- JJC 1/27/99	W. B. Miller	4/99
3190	E	REMOVE VERSIONS - 504 THRU - 506	- JJC 9/23/98	cm	10/11
2872	D	ADD VERS - 504 - 506, DELETING ITEM 51	- hcc - 6/97		B 6/97
2560	C	ADDED R15	5/96	MTS	B 4-96
2527	B	SEE ECN: ADDED - 501, - 502, - 503	11/29/95	MMC	B
2274	A	ADDED L4, C32			
ECN	LTR	DESCRIPTION	DATE	NAME	
REVISIONS					

ACRODYNE
BLUE BELL, PA

TITLE

ASSY AURAL MODULATOR

PL 22209276

REV

F

PREPARED BY

C MOORE

SHT. NO.

2

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503				
1	X	X	X			22509289	SCHEMATIC
2							
3	2	2	2		C1,2	DM10-101J	CAPACITOR 100 PF mica
4	1	1	1		C3	DM10-271J	270 PF mica
5	2	2	2		C4,6	199D476X0020CAI	47nF 20V
6	4	4	4		C5,24,27,32	CK05BX10ZK	.001 nF
7	2	2	2		C7,28	RPE121Z5U104M50	0.1 nF
8	1	1	1		C18	199D106X90Z0CAI	10nF, 20V TANT
9	2	2	2		C8,29	21CC647	470 PF CHIP
10	2	2	2		C9,30	CK05BX103K	0.01 nF
11	2	2	2		C10,31	CK05BX47ZK	.0047nF
12	2	2	2		C11,26	100B301KLA200X	300PF CHIP
13	2	—	—		C13,25	100B151KLA300	150PF CHIP
14	2	—	—		C14,23	100B101KC500	100 PF CHIP
15	2	—	—		C15,22	100B4R3DC500	4.3 PF CHIP
16	2	—	—		C16,21	100B470KC500	47 PF CHIP
17	1	1	1		C12	25UN1	1nF 50V
18	2	—	—		C19,20	24AA021	CAPACITOR 3-13 pF

ACRODYNE
BLUE BELL, PA

TITLE

ASSY AURAL MODULATOR

PL 22209276

REV

F

PREPARED BY

CMOORE

SHT. NO.

3

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
19	1	—	—		C17	100B1R0CC500X	CAPACITOR CHIP 1 PF
20	1	1	1		CR1	1N4002	DIODE
21	2	2	2		F1,2	DST310-55Y55- 223M	FILTER BEAD
22	—	2	2		C13, C25	100B301KCA200X	300 pF CHIP CAP
23	—	2	—		C16, C21	100B820KCA500X	82 pF CHIP CAP
24	1	1	1		J1	RFB-1111	BNC CONN
25	1	1	1		L1	1025-94	COIL 0.10 μ H
26	2	2	2		L2,3	11300530-24-209 -0	COIL T-37-0 CORE
27	1	1	1		L4	1025-08	COIL 0.33 μ H
28	1	1	1		R11	RC07GF242J	RESISTOR 2.4 K Ω 1/4W
29	1	1	1		R1	RC07GF682J	RESISTOR 6.8 K Ω 1/4W
30	1	1	1		R2	RC07GF222J	2.2 K Ω 1/4W
31	1	1	1		R3	RC07GF332J	3.3 K Ω 1/4W
32	1	1	1		R4	RC07GF102J	1 K Ω 1/4W
33	1	1	1		R5	RC07GF181J	180 Ω 1/4W
34	3	3	3		R6,7,8	RC07GF471J	470 Ω 1/4W
35	1	1	1		R9	RC07GF180J	18 Ω 1/4W
36	1	1	1		R10	RC07GF510J	51 Ω 1/4W

ACRODYNE
BLUE BELL, PA

TITLE

ASSY AURAL MODULATOR

PL 22209276

REV
F

PREPARED BY
C Moore

SHT. NO.
4

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
37	1	1	1		R21	RC20GF180J	RESISTOR 18Ω 1/2W
38	—	—	2		C16, C21	100B101KC500	100 pF CHIP CAP
39	1	1	1		R12	RC07GF241J	RESISTOR 240Ω 1/4W
40	1	1	1		R13	RC07GF561J	RESISTOR 560Ω 1/4W
41	1	1	1		R14	3339P-1-101	POTENTIOMETER 100Ω
42	1	1	1		U1	Z1606584	I.C.
43	2	2	2		U2,3	NE5205	I.C.
44	—	1	—		C17	100B2R2CCA500	2.2 pF CHIP CAP
45	1	1	1		VR1	7806	VOLTAGE REG 6V
46	1	1	1		TB1	1715721	TERMINAL BLOCK 2 POS
47	—	—	1		C17	100B2R7CCA500	2.7 pF CHIP CAP
48	1	1	1			22409275	PC BOARD
49	—	2	2		C19, C20	24AAØ24	CAPACITOR, 9-50 pF
50	1	1	1			CA14CS2-TSD	IC SOCKET 14 PIN
51	—	—	—				
52	2	2	2		W1, W2		BUSS WIRE
53	1	1	1		R15	RCØ7GF2Ø1J	RESISTOR, 2ØØΩ, 1/4W
54							

JOB NUMBER	NEXT ASSEMBLY	USED ON	REF. DES.	ACRODYNE TITLE ASSEMBLY: VIDEO AGC WITH BACK PORCH CLAMP PC BOARD CODE IDENT 51336 DOCUMENT NUMBER PL22210886 REVISION G PREPARED BY HFG DATE 1/2/97 APPROVED BY M. BRICKER DATE 6/98 CHECKED BY GCC DATE 1/3/97 SHEET 1 OF 5	
ASSY	DESCRIPTION				
-501	MMDS				
-502	BROADCAST, NTSC-CONNECTOR				
-503	BROADCAST, PAL-CONNECTOR				
-504	BROADCAST, NTSC-CABLE				
-505	BROADCAST, PAL-CABLE				
NOTE: REVISIONS "E & F &G" ASSEMBLIES ONLY GOOD FOR REVISION "C" AND "D"ARTWORK.					
ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY	
	A	ADD -502, DELEATE J2, J3, ADD W1, W2, W3, W4	HFG 1/97	JB 1/97	
	B	REVISED WHITE CLIPPER CIRCUIT	HFG 2/97	JB 2/97	
2818	C	ADD -503, -504, AND -503, SEE ECN, CHANGED PL FORMAT	HFG 5/97		
2974	D	SEE ECN	WB 10/97		
	E	SEE ECN'S 3059, 3063, 3074, 3099	WB 3/98	MB 3/98	
	F	SEE E.C.N.'S #3245, 3262	JJC 11/06/98		
3245	G	SEE ECN #3245	MMC-11/30/98		

ACRODYNE BLUE BELL, PA	Title ASSEMBLY: VIDEO AGC WITH BACK PORCH CLAMP PC BOARD					PL 22210886		REV G
						PREPARED BY HFG		SHEET NO. 2

ITEM	QUANTITY REQUIRED -501	-502	-503	-504	-505	REFERENCE DESIGNATOR	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
------	---------------------------	------	------	------	------	-------------------------	-------------------------------	-------------	--------

	X	X	X	X	X		22510887	SCHEMATIC VIDEO AGC WITH BACK PORCH CLAMP	
1	1	1	1	1	1		22410885	PC BOARD, VIDEO AGC WITH BACK PORCH CLAMP	
2									
3	6	6	6	6	6		CA8CS2-TSD	SOCKET, IC 8 PIN (FOR U1,2,3,4,6,9)	
4	1	1	1	1	1		CA14CS2-TSD	SOCKET, IC 14 PIN (FOR K1)	
5	1	1	1	1	1		CA16CS2-TSD	SOCKET, IC 16 PIN (FOR U8)	
6	-	1	1	1	1		H175C	HOLDER, LED, R/A (BIVAR)	
7	2	2	2	2	2		175-6-240P	PAD, HEAT TRANSFER, TO-220	
8	2	2	2	2	2			SCREW, PAN HEAD, #4-40 X 3/8" LONG	
9	2	2	2	2	2			WASHER, LOCK, #4	
10	2	2	2	2	2			NUT, HEX, #4-40	
11	2	3	3	3	3		15-38-1024	JUMPER, 2 POSITION (FOR -501 JP2, PINS 1 AND 2 OF JP3), (FOR -502, -503, -504, -505 JP1, JP2, PINS 1 AND 2 OF JP3)	
12	2	2	2	2	2	BR1,2	DB105	DIODE BRIDGE	
13	20	20	20	20	20	C1-8,11,17,18,23, 24,27,29,30,31, 33-35	GRM42- 6X7R104K050BL	CAPACITOR, 0.1 uF, CHIP	
14	1	1	1	1	1	C9	24AA021	CAPACITOR, 2.8-12.5 pF, VARIABLE	
15	1	1	1	1	1	C10	ULB1V100M	CAPACITOR, 10 uF, 20V, ELECTROLYTIC, RADIAL	
16	-	-	1	-	1	C12	DM10-131J	CAPACITOR, 130 pF, MICA	
17	1	1	-	1	-	C12	DM10-201J	CAPACITOR, 200 pF, MICA	
18	2	2	2	2	2	C13,14	25VBSL470	CAPACITOR, 470 uF, 25V, ELECTROLYTIC, RADIAL	
19	2	2	2	2	2	C15,16	108RLR010M	CAPACITOR, 1000 uF, 10V, ELECTROLYTIC, RADIAL	

ACRODYNE BLUE BELL, PA	Title ASSEMBLY: VIDEO AGC WITH BACK PORCH CLAMP PC BOARD	PL 22210886	REV G
		PREPARED BY HFG	SHEET NO. 3

QUANTITY REQUIRED						REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	-505	DESIGNATOR	IDENTIFYING NUMBER		
20	4	4	4	4	4	C19-22	GRM42-6X7R102K050BL	CAPACITOR, 0.001 uF, CHIP	
21	1	1	1	1	1	C25	DM15-911J	CAPACITOR, 910 pF, MICA	
22	1	1	1	1	1	C26	CK05BX103K	CAPACITOR, 0.01 uF, CERAMIC	
23	1	1	1	1	1	C28	199D226X0035EE2	CAPACITOR, 22 uF, 35V, TANTALUM	
24	1	1	1	1	1	C32	DM10-430J	CAPACITOR, 43 pF, MICA	
25	1	1	1	1	1	C36	199D105X0035AA1	CAPACITOR, 1 uF, 35V, TANTALUM	
26	1	1	1	1	1	C37	199D474X9035AA1	CAPACITOR, 0.47 uF, 35V, TANTALUM	
27	1	1	1	1	1	C38	199D225X0035BA1	CAPACITOR, 2.2 uF, 35V, TANTALUM	
28	1	1	1	1	1	C39	199D475X0035CA1	CAPACITOR, 4.7 uF, 35V, TANTALUM	
29	1	1	1	1	1	D1	5082-4950	LED (GREEN)	
30	2	2	2	2	2	D2,4	1N4007	DIODE, 100V, 1A	
31	1	1	1	1	1	D3	VTL5C7	DIODE, OPTO	
32	2	2	2	2	2	D5,9	1N5711	DIODE	
33	3	3	3	3	3	D8,10,11	1N4148A	DIODE	
34	-	2	2	-	-	J1,4	RFB-1113-B	CONNECTOR, BNC	
35	-	1	1	1	1	JP1	65507-436	HEADER, 2 POSITION	
36	1	1	1	1	1	JP2	65507-436	HEADER, 2 POSITION	
37	1	1	1	1	1	K1	HE721A0500	RELAY, 5V, SPST	
38	1	1	1	1	1	L1	1025-44	COIL, 10.0 uH	
39	2	2	2	2	2	L2,3	1025-20	COIL, 1.0 uH	
40	1	1	-	1	-	L4	1025-28	INDUCTOR, 2.2 uH	
41	-	-	1	-	1	L4	1025-24	INDUCTOR, 1.5 uH	
42	1	1	1	1	1	L6	1025-60	COIL, 47.0 uH	
43	1	1	1	1	1	Q1	2N4392	TRANSISTOR, JFET, N-CHANNEL	
44	1	1	1	1	1	Q2	2N2907A	TRANSISTOR, PNP	
45	1	1	1	1	1	Q3	2N3906	TRANSISTOR, PNP	
46	1	1	1	1	1	R1	RC07GF620J	RESISTOR, 62 OHM, 1/4W, 5%	
47	1	1	1	1	1	R2	RC07GF150J	RESISTOR, 15 OHM, 1/4W, 5%	
48	1	1	1	1	1	R3	RC07GF820J	RESISTOR, 82 OHM, 1/4W, 5%	
49	4	4	4	4	4	R4,13,16,33	RC07GF511J	RESISTOR, 510 OHM, 1/4W, 5%	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY: VIDEO AGC WITH
BACK PORCH CLAMP PC BOARD

PL 22210886

REV G

PREPARED BY
HFGSHEET NO.
4

QUANTITY REQUIRED						REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	-505	DESIGNATOR	IDENTIFYING NUMBER		
50	2	2	2	2	2	R5,6	RC07GF4R7J	RESISTOR, 4.7 OHM, 1/4W, 5%	
51	1	1	1	1	1	R7	RC07GF472J	RESISTOR, 4.7K, 1/4W, 5%	
52	2	2	2	2	2	R8,12	RC07GF510J	RESISTOR, 51 OHM, 1/4W, 5%	
53	2	2	2	2	2	R9,10	RC07GF102J	RESISTOR, 1K, 1/4W, 5%	
54	3	3	3	3	3	R11,47,49	RC07GF104J	RESISTOR, 100K, 1/4W, 5%	
55	3	3	3	3	3	R15,17,19	RC07GF101J	RESISTOR, 100 OHM, 1/4W, 5%	
56	3	3	3	3	3	R20,34,44	RC07GF750J	RESISTOR, 75 OHM, 1/4W, 5%	
57	1	1	1	1	1	R21	RC07GF301J	RESISTOR, 300 OHM, 1/4W, 5%	
58	3	3	3	3	3	R22,23,45	RC07GF151J	RESISTOR, 150 OHM, 1/4W, 5%	
59	3	3	3	3	3	R24,32,39	RC07GF181J	RESISTOR, 180 OHM, 1/4W, 5%	
60	1	1	1	1	1	R25	RC07GF684J	RESISTOR, 680K, 1/4W, 5%	
61	1	1	1	1	1	R26	RC07GF390J	RESISTOR, 39 OHM, 1/4W, 5%	
62	1	1	1	1	1	R28	RC07GF121J	RESISTOR, 120 OHM, 1/4W, 5%	
63	1	1	1	1	1	R29	RC07GF360J	RESISTOR, 36 OHM, 1/4W, 5%	
64	2	2	2	2	2	R30,31	RC07GF201J	RESISTOR, 200 OHM, 1/4W, 5%	
65	1	1	1	1	1	R41	RC07GF361J	RESISTOR, 360 OHM, 1/4W, 5%	
66	1	1	1	1	1	R42	RC07GF241J	RESISTOR, 240 OHM, 1/4W, 5%	
67	1	1	1	1	1	R46	RC07GF103J	RESISTOR, 10K, 1/4W, 5%	
68	1	1	1	1	1	R48	RC07GF394J	RESISTOR, 390K, 1/4W, 5%	
69	1	1	1	1	1	R50	RC07GF105J	RESISTOR, 1M, 1/4W, 5%	
70	3	3	3	3	3	R37,38,40	SBT	RESISTOR, SELECT BY TEST	
71	2	2	2	2	2	R14,36	3339P-1-101	POTENTIOMETER, 100 OHM	
72	2	2	2	2	2	R18,27	3386P-1-102	POTENTIOMETER, 1K, SQUARE	
73	1	1	1	1	1	R35	3339P-1-103	POTENTIOMETER, 10K	
74	1	1	1	1	1	R43	3339P-1-501	POTENTIOMETER, 500 OHM	
75	1	1	1	1	1	S1	T201MH9AVBE	SWITCH, TOGGLE, DPDT	
76	1	1	1	1	1	S2	ASE22	SWITCH, SLIDE, DPDT	
77	2	2	2	2	2	TB1,(E1-E2)	1715721	TERMINAL BLOCK, 2 POS.	
78	1	1	1	1	1	TB2	1715734	TERMINAL BLOCK, 3 POS.	
79	1	1	1	1	1	T1	LP-20-300	TRANSFORMER	
80	5	5	5	5	5	U1,2,3,4,6	MAX404CPA	IC, VIDEO OP-AMP	
81	1	1	1	1	1	U5	LM1881	IC, SYNC SEPARATOR	
82	1	1	1	1	1	U7	LT1227-CN8	IC, VIDEO OP-AMP	
83	1	1	1	1	1	U8	CD4046BCN	IC, PHASE LOCKED LOOP	
84	1	1	1	1	1	U9	NE555	IC, TIMER	

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

CHASSIS ASSEMBLY: VIDEO PROCESSOR

ASSY	DESCRIPTION
-501	NTSC M/N, 120VAC
-502	NTSC M/N, 240VAC
-503	PAL B/G, 120VAC
-504	PAL B/G, 240VAC
-505	VIDEO CORRECTOR ONLY, 120VAC
-506	VIDEO CORRECTOR ONLY, 240VAC
-507	VIDEO CORRECTOR ONLY, 120VAC WITH RAL #7035 PANEL
-508	NTSC M/N, 120VAC WITH RAL #7035 PANEL
-509	NTSC M/N, 240VAC WITH RAL #7035 PANEL

CODE IDENT

51336

DOCUMENT NUMBER

PL22211753-501

REVISION

B

PREPARED BY

R.G. DICKSON

DATE

01/30/98

APPROVED BY

DATE

CHECKED BY

DATE

SHEET 1 OF 3

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	INITIAL RELEASE.	RGD	CSM: 08/20/98
	A	ADDED -507 VERSION: RAL #7035 ON FRONT PANEL.	KLL	CSM: 01/07/99
	B	ECN #3331, 3349, AND ADDED -508 & -509 ASSY'S, ITEM A2 WAS -502, AND #48 WAS 54B	MTS: 02/25/99	

ACRODYNE BLUE BELL, PA	Title CHASSIS ASSEMBLY: VIDEO PROCESSOR	PL22211753-501	REV. B
		PREPARED BY RGD	SHEET NO. 2

ITEM	QUANTITY REQUIRED	REFERENCE DESIGNATION	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
1	X		22509321	WIRING DIAGRAM	
2					
3					
4	1	A1	23208695-501	ASSEMBLY, VIDEO CORRECTOR PCB	
5	1	A2	22210886-504	ASSEMBLY, VIDEO AGC PCB NT SC	
6	1	A3	22207131-501	ASSEMBLY, TRANSFORMER PCB, $\pm 15\text{VAC}$	
7					
8	1	F1	MDL1	FUSE, 120VAC	
9					
10	1	FL1	6J4	FILTER, AC LINE FUSED	CORCOM
11					
12	1	RV1	VP130LA10A	VARISTOR, 130 VAC	
13					
14	1	W1	23200165 -41-U-35	CABLE ASSY.	
15	1	W2	23200165 -41-U-41	CABLE ASSY.	
16	1	W3	23200165 -5-U-35	CABLE ASSY.	
17	1	W4	23200165 -41-U-35	CABLE ASSY.	
18					
19					
20					
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22					
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25					
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27					
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31					
32					
33					
34					

ACRODYNE BLUE BELL, PA	Title CHASSIS ASSEMBLY: VIDEO PROCESSOR	PL22211753-501	REV. B
		PREPARED BY RGD	SHEET NO. 3

ITEM	QUANTITY REQUIRED	REFERENCE DESIGNATION	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
35	1		C-300-S-116	SLIDE (PAIR) 16 INCH	GEN DEVICES.
36	2		175-6-240P	INSULATOR	WAKEFIELD
37	2		3049K	SHOULDER WASHER, MICA	
38	1		22311733-01	DETAIL, COVER, TOP	
39	1		22311734	DETAIL, BOTTOM	
40	2		22311728	DETAIL, SIDE	
41	1		22309318	DETAIL, U BRACKET	
42	1		22311727	DETAIL, BACK	
43	1		22309291-03	DETAIL, PANEL, FRONT	
44					
45	2		B4-10-103-12	HANDLES	SOUTHCO
46	2		HDH-373	HEAT SINK	WAKEFIELD
47	8		8159-B-0440	STANDOFF,	
48	2		1414-4	GROUND LUG	
49					
50	12			SCREW, PAN HEAD, NO. 4-40 x 5/16" LONG	
51	24			SCREW, FLAT HEAD, NO. 4-40 x 1/4" LONG	
52	5			NUT, HEX, NO. 4-40	
53	17			WASHER, FLAT, NO. 4	
54	17			WASHER, LOCK, NO. 4	
55					
56	6			SCREW, PAN HEAD, NO. 6-32 x 3/8" LONG	
57	2			NUT, HEX, NO. 6-32	
58	8			WASHER, FLAT, NO. 6	
59	8			WASHER, SPLIT-LOCK, NO. 6	
60					
61	4			SCREW, PAN HEAD, NO. 8-32 x 3/8" LONG	
62	4			SCREW, FLAT HEAD, NO.8-32 x 1/2" LONG	
63					
64	2			NUT, HEX, NO. 10-32	
65	2			WASHER, FLAT, NO. 10	
66	2			WASHER, SPLIT-LOCK, NO. 10	
67					

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ASSY	DESCRIPTION
-501	45.75 VIS IF/3.58 COLOR +24VDC
-502	38.9 VIS IF/4.43 COLOR +24VDC
-503	45.75 VIS IF with -4.5 IM CORRECTOR +24VDC
-504	38.9 VIS IF with 5.5 IM CORRECTOR +24VDC
-505	45.75 VIS IF/3.58 COLOR +15VDC
-506	38.9 VIS IF/4.43 COLOR +15VDC
-507	45.75 VIS IF/3.58 COLOR +15VDC (RAL 7035)
-508	38.9 VIS IF/4.43 COLOR +15VDC (RAL 7035)
-509	45.75 VIS IF/3.58 COLOR +24VDC (RAL 7035)

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

ASSEMBLY: ASSEMBLY, IF PROCESSOR CHASSIS

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL 22211856-501	D
PREPARED BY DWM	DATE 5/18/98	APPROVED BY M. BRICKER
CHECKED BY CSM	DATE 5/24/98	DATE 02/99
SHEET 1 OF 3		

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	PRELIMINARY RELEASE	DWM	
	A	CHANGED 21209419 ASSEMBLY TO 21209419-503	JJC	CSM 6/8/98
	B	ADDED -505 & -506 ASSEMBLY	KH	MB 02/99
	C	ADDED -507 AND -508 ASSEMBLY.	MTS 02/12/9	DM 02/15/99
	D	ADDED -509 ASSEMBLY.	MTS 03/05/99	

ACRODYNE

BLUE BELL, PA

Title
**ASSEMBLY
IF PROCESSOR CHASSIS**

PL 22211856-501 Rev. D

PREPARED BY

DWM

SHEET NO.

2

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
1	X				22511858	WIRING DIAGRAM	
2	X				23712110	CONTROLS & INDICATORS	
3							
4	1				A1 23207637-503	ASSEMBLY, IF PRE CORRECTOR	
5	1				A2 21209419-503	ASSEMBLY, VISION/SOUND COMBINER	
6	1				A3 23210602-501	ASSEMBLY, IM/ICPM CORRECTOR	
7	1				A4 23211632-501	ASSEMBLY, AURAL CORRECTOR	
8	1				A5 22207958-503	ASSEMBLY, AMPLIFIER BUFFER	
9	1				A6 22207295-501	ASSEMBLY, MINIATURE GAIN BLOCK	
10							
11	1				AT1 FP-50/SBT	ATTENUATOR, 50 OHM, SBT dB, BNC	
12							
13							
14							
15							
17							
18							
19							
20							
21	1PR				C300-S-126	SLIDE, NON-PIVOTING, 26"	
22	1				22309290-05	DETAIL, PANEL, FRONT	
23	1				22309318-02	DETAIL, FRONT RAIL	
24	1				22309466-01	DETAIL, SIDE RAIL, LEFT	
25	1				22309466-02	DETAIL, SIDE RAIL, RIGHT	
26	1				22309475-02	DETAIL, REAR RAIL	
27	1				22311949	DETAIL, BOTTOM PLATE	
28	1				22311950-01	DETAIL, TOP COVER	
29	-				22311950-02	DETAIL, TOP COVER	
30	2				B4-10-103-12	HANDLE	
31	5				8480	SPACER, ¼" DIA. X 1/8" LG.	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
IF PROCESSOR CHASSIS

PL 22211856-501 Rev. D

PREPARED BY

DWM

SHEET NO.

3

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
32	36					#4-40 X ¼" LG. FLAT HD SCREW	
33	15					#4-40 HEX NUT	
34	19					#4 FLAT WASHER	
35	19					#4 LOCK WASHER	
36	4					#8-32 X 3/8" LG. FLAT HD. SCREW	
37	2					#10-32 HEX NUT	
38	2					#10 FLAT WASHER	
39	2					#10 LOCK WASHER	
40	2					#6-32 HEX NUT	
41	2					#6 FLAT WASHER	
42	2					#6 LOCK WASHER	
43	14					#8-32 X ¼" LG.PAN HD SCREW	
44	14					#8 FLAT WASHER	
45	14					#8 LOCK WASHER	
46	1				W3 23200165-5-L-41-11	COAX CABLE ASSEMBLY (CONN. BRKT TO A2-E1)	
47	2				E1,E2 54B	TERMINAL STRIP	
48	1				J81 206705-1	CONNECTOR, 9 PIN	
50	2					#6-32 X ½" LG. FLAT HD SCREW	
52	1				W1 23200165-35-L-5-28	COAX CABLE ASSEMBLY (J4 {COMBINED IF OUT} TO A6-E4)	
53	1				W2 23200165-5-L-41-8	COAX CABLE ASSEMBLY (A1 {IF INPUT} TO A2-J2)	
54	1				W4 23200165-5-L-5-15	COAX CABLE ASSEMBLY (A1 {IF OUT} TO A6-E3)	
55	1				W5 23200165-41-L-5-7	COAX CABLE ASSEMBLY (A3-J3 TO A5 {RF OUT})	
56	1				W6 23200165-5-L-35-7	COAX CABLE ASSEMBLY (A5 {RF IN} TO A4-W1)	
57	2				BRKT 22310667-02 1,2	BRACKET, CONNECTOR WITH PEM NUTS	
58	-				W3 23200165-5-L-5-11	COAX CABLE ASSEMBLY (A1 {IF OUT} TO A2-E1)	
59	-				W2 23200165-5-L-41-12	COAX CABLE ASSEMBLY (A1 {IF INPUT} TO AT1)	
60	-				W4 23200165-41-L-5-15	COAX CABLE ASSEMBLY (A2-J2 TO A6-E3)	

JOB NUMBER	NEXT ASSEMBLY	USED ON	REF. DES.	ACRODYNE TITLE ASSEMBLY: DC POWER SUPPLY FUSE AND DISTRIBUTION PC BOARD CODE IDENT 51336 DOCUMENT NUMBER PL22212251 REVISION A PREPARED BY W.BARONOFSKY DATE 9/22/98 APPROVED BY DATE CHECKED BY DATE SHEET 1 OF 3	
ASSY	DESCRIPTION				
-501	SINGLE 4000W POWER SUPPLY				
-502	DUAL 2000W POWER SUPPLY				
-503	SINGLE 4000W POWER SUPPLY WITH ISOLATION DIODE				
ECN	LTR	DESCRIPTION		REVISED BY	APPROVED BY
3309	A	DESIGN CHANGES, ADDED SHEET 3; CHANGED BOM PER ECN 3309		MMC AJG 12/98	

ACRODYNE BLUE BELL, PA	Title ASSEMBLY: DC POWER SUPPLY FUSE AND DISTRIBUTION PC BOARD	PL 22212251 REV A	
		PREPARED BY W.BARONOFSKY	SHEET NO. 2

ITEM	QTY REQUIRED -501 -502 -503			REFERENCE DESIGNATOR	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
	X				22512250 SHEET 1	SCHEMATIC DIAGRAM, DC POWER SUPPLY FUSE AND DISTRIBUTION PC BOARD	
		X			22512250 SHEET 2	SCHEMATIC DIAGRAM, DC POWER SUPPLY FUSE AND DISTRIBUTION PC BOARD	
			X		22512250 SHEET 3	SCHEMATIC DIAGRAM, DC POWER SUPPLY FUSE AND DISTRIBUTION PC BOARD	
1	1	1	1		22412252	DC POWER SUPPLY FUSE AND DISTRIBUTION PWB	
2	4	4	4	D6-9	35BL505	LED, GREEN	
3	4	4	4	D10-13	35BL504	LED, RED	
4	4	4	4	D1,2,4,5	1N4148	DIODE, 1N4148	
5	-	1	1	D3	MB2505	DIODE BRIDGE, 25 AMP	
6	4	4	4	F3-6	ANN-40	FUSE, 40 AMP	
7	1	-	1	F2	AGC-10	FUSE, 10 AMP 1 1/4 LONG x 1/4 DIA	
8	-	2	-	F1,2	AGC-10	FUSE, 10 AMP 1 1/4 LONG x 1/4 DIA	
9	-	3	2			WIRE, #18 AWG, THHN, RED, 2" LONG	
10	12	12	12	R1-5,7,9,11,13-16	RC20GF202	RESISTOR, 2K OHM, 1/2W, 5%	
11	4	4	4	R6,8,10,12	RC07GF820J	RESISTOR, 82 OHM, 1/4W, 5%	
12							
13	7	7	7	TB1,2	1715734	TERMINAL BLOCK, 3 POSITION	
14	2	4	2		44FH053	FUSE HOLDER, PC BOARD MOUNT	
15	-	1	1			SCREW, PAN HEAD, #10-32 x 7/8" LONG	
16	-	1	1			NUT, HEX. #10-32	
17	-	1	1			WASHER, LOCK, #10	
18	-	1	1			WASHER, FLAT, #10	
19	8	8	8			SCREW, BRASS, 1/4-20 x 1 LONG	
20	16	16	16			NUT, HEX, BRASS, 1/4-20	
21	16	16	16			WASHER, BRASS, LOCK, 1/4-20	
22	12	12	12			WASHER, BRASS, FLAT, 1/4-20	
23	9	9	9	J1	02-06-7103	CONTACTS, FEMALE, PC TAIL	MOLEX
24	1	1	1	J1	03-06-1092	CONNECTOR, RECEPTACLE, 9 POS	MOLEX
25	A/R	-	-	JP3		18 GA. BUSS WIRE, TINNED, WITH SLEEVING	
26	1	-	1		22213007-02	BUSS BAR, 4 POSITION	
27	-	2	-		22213007-01	BUSS BAR, 2 POSITION	

ACRODYNE BLUE BELL, PA	Title ASSEMBLY: DC POWER SUPPLY FUSE AND DISTRIBUTION PC BOARD	PL 22212251	REV A
		PREPARED BY W.BARONOFSKY	SHEET NO. 3

ITEM	QTY REQUIRED			REFERENCE DESIGNATOR	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
	-501	-502	-503				
28	1	-	1	JP1	65507-436	HEADER, 2 POSITION	
29	1	1	1	JP2	65507-436	HEADER, 3 POSITION	
30	2	-	2		15-38-1024	JUMPER 2 POSITION (FOR JP1,JP2)	
31	-	1	-		15-38-1024	JUMPER 2 POSITION (FOR JP2)	
32	1	1	1	E1 GRD		PAN HEAD SCREW, BRASS, #8-32 x ¾ LONG	
33	1	1	1	E1 GRD		HEX NUT, BRASS, #8-32	

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE:

CABLE ASSEMBLY:
FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB

ASSY	DESCRIPTION
-501	SINGLE 4000W POWER SUPPLY {HC40-C1034}
-502	DUAL 2000W POWER SUPPLY {2 x HC20-C1164}
-503	DUAL 2000W POWER SUPPLY {2 x ECT21-C1020}
-504	SINGLE 4000W POWER SUPPLY WITH ISOLATION DIODE {HC4011-C12243} {HC2011-C1370}
-505	FN6000 P.S. {2 x FN6000}
-506	A -504 ASSEMBLY WITH SLIDE LATCH KIT ON THE PS1-P1 END.
-507	DUAL 2000W POWER SUPPLY (2xEJN-6000)

CODE IDENT	DOCUMENT NUMBER		REVISION
51336	PL22212570-501		B
PREPARED BY W. Baronofsky	DATE 08/20/98	APPROVED BY M. Bricker	DATE 01/99
CHECKED BY	DATE	SHEET 1 OF 2	

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	INITIAL RELEASE. 08/20/98	W.B.	MB: 01/99
3328	A	NUMEROUS CHANGES PER ECN. 03/11/99	MTS	DWM 04/26/99
	B	ADDED -506 & 507 ASSEMBLYS. 04/26/99	MTS	

ACRODYNE BLUE BELL, PA	Title CABLE ASSEMBLY: FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB	PL22212570-501	REV: B
		PREPARED BY W. Baronofsky	SHEET NO. 2

QUAN. ITEM	REF. REQD.	REFERENCE DESIGNATION	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
1	1	P1	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
2	8		02-06-2103	CONTACTS, MALE FOR P1	MOLEX
3	1	PS1-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
4	-	PS1-P1, PS2-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
5	1	W1		WIRE, #22 AWG, THHN, BRN	
6	1	W2		WIRE, #22 AWG, THHN, RED	
7	1	W3		WIRE, #22 AWG, THHN, ORG	
8	1	W4		WIRE, #22 AWG, THHN, YEL	
9	-	W1,5		WIRE, #22 AWG, THHN, BRN	
10	-	W2,6		WIRE, #22 AWG, THHN, RED	
11	-	W3,7		WIRE, #22 AWG, THHN, ORG	
12	-	W4,8		WIRE, #22 AWG, THHN, YEL	
13	-	P1,PS1-P1, PS1-P2, PS2-P1,PS2-P2	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
14	-		02-06-2103	CONTACTS, MALE FOR P1,PS1-P1, PS1-P2, PS2-P1, PS2-P2	MOLEX
15	-	PS1-P1, PS2-P1	39-01-2125	CONNECTOR, PLUG, 12 POS.	MOLEX
16	-		39-00-0039	CONTACTS, MALE FOR PS1-P1, PS2-P1	MOLEX
17					
18	1		749626-2	BACK SHELL (FOR PS1-P1)	
19	-		749626-2	BACK SHELL (FOR PS1-P1 & PS2-P1)	
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JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE:

CABLE ASSEMBLY:
FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB

ASSY	DESCRIPTION
-501	SINGLE 4000W POWER SUPPLY {HC40-C1034}
-502	DUAL 2000W POWER SUPPLY {2 x HC20-C1164}
-503	DUAL 2000W POWER SUPPLY {2 x ECT21-C1020}
-504	SINGLE 4000W POWER SUPPLY WITH ISOLATION DIODE {HC4011-C12243} {HC2011-C1370}
505	FN6000 P.S. {2 x FN6000}
-506	A -504 ASSEMBLY WITH SLIDE LATCH KIT ON THE PS1-P1 END.
-507	DUAL 2000W POWER SUPPLY (2xEJN-6000)

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL22212570-502	B
PREPARED BY W. Baronofsky	DATE 08/20/98	APPROVED BY M. Bricker
CHECKED BY	DATE	SHEET 1 OF 2

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	INITIAL RELEASE. 08/20/98	W.B.	MB: 01/99
3328	A	NUMEROUS CHANGES PER ECN. 03/11/99	MTS	DWM 04/26/99
	B	ADDED -506 & 507 ASSEMBLYS. 04/26/99	MTS	

ACRODYNE BLUE BELL, PA	Title CABLE ASSEMBLY: FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB	PL22212570-502	REV: B
		PREPARED BY W. Baronofsky	SHEET NO. 2

QUAN. ITEM	REF. REQD.	REFERENCE DESIGNATION	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
1	-	P1	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
2	-		02-06-2103	CONTACTS, MALE FOR P1	MOLEX
3	-	PS1-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
4	-	PS1-P1, PS2-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
5	-	W1		WIRE, #22 AWG, THHN, BRN	
6	-	W2		WIRE, #22 AWG, THHN, RED	
7	-	W3		WIRE, #22 AWG, THHN, ORG	
8	-	W4		WIRE, #22 AWG, THHN, YEL	
9	2	W1,5		WIRE, #22 AWG, THHN, BRN	
10	2	W2,6		WIRE, #22 AWG, THHN, RED	
11	2	W3,7		WIRE, #22 AWG, THHN, ORG	
12	2	W4,8		WIRE, #22 AWG, THHN, YEL	
13	5	P1,PS1-P1, PS1-P2, PS2-P1,PS2-P2	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
14	16		02-06-2103	CONTACTS, MALE FOR P1,PS1-P1, PS1-P2, PS2-P1, PS2-P2	MOLEX
15	-	PS1-P1, PS2-P1	39-01-2125	CONNECTOR, PLUG, 12 POS.	MOLEX
16	-		39-00-0039	CONTACTS, MALE FOR PS1-P1, PS2-P1	MOLEX
17					
18	-		749626-2	BACK SHELL (FOR PS1-P1)	
19	-		749626-2	BACK SHELL (FOR PS1-P1 & PS2-P1)	
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31					

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE:

CABLE ASSEMBLY:
FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB

ASSY	DESCRIPTION
-501	SINGLE 4000W POWER SUPPLY {HC40-C1034}
-502	DUAL 2000W POWER SUPPLY {2 x HC20-C1164}
-503	DUAL 2000W POWER SUPPLY {2 x ECT21-C1020}
-504	SINGLE 4000W POWER SUPPLY WITH ISOLATION DIODE {HC4011-C12243} {HC2011-C1370}
505	FN6000 P.S. {2 x FN6000}
-506	A -504 ASSEMBLY WITH SLIDE LATCH KIT ON THE PS1-P1 END.
-507	DUAL 2000W POWER SUPPLY (2xEJN-6000)

CODE IDENT	DOCUMENT NUMBER		REVISION
51336	PL22212570-503		B
PREPARED BY W. Baronofsky	DATE 08/20/98	APPROVED BY M. Bricker	DATE 01/99
CHECKED BY	DATE	SHEET 1 OF 2	

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	INITIAL RELEASE. 08/20/98	W.B.	MB: 01/99
3328	A	NUMEROUS CHANGES PER ECN. 03/11/99	MTS	DWM 04/26/99
	B	ADDED -506 & 507 ASSEMBLYS. 04/26/99	MTS	

ACRODYNE BLUE BELL, PA	Title CABLE ASSEMBLY: FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB	PL22212570-503	REV: B
		PREPARED BY W. Baronofsky	SHEET NO. 2

QUAN. ITEM	REF. REQD.	REFERENCE DESIGNATION	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
1	1	P1	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
2	8		02-06-2103	CONTACTS, MALE FOR P1	MOLEX
3	-	PS1-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
4	2	PS1-P1, PS2-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
5	-	W1		WIRE, #22 AWG, THHN, BRN	
6	-	W2		WIRE, #22 AWG, THHN, RED	
7	-	W3		WIRE, #22 AWG, THHN, ORG	
8	-	W4		WIRE, #22 AWG, THHN, YEL	
9	2	W1,5		WIRE, #22 AWG, THHN, BRN	
10	2	W2,6		WIRE, #22 AWG, THHN, RED	
11	2	W3,7		WIRE, #22 AWG, THHN, ORG	
12	2	W4,8		WIRE, #22 AWG, THHN, YEL	
13	-	P1,PS1-P1, PS1-P2, PS2-P1,PS2-P2	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
14	-		02-06-2103	CONTACTS, MALE FOR P1,PS1-P1, PS1-P2, PS2-P1, PS2-P2	MOLEX
15	-	PS1-P1, PS2-P1	39-01-2125	CONNECTOR, PLUG, 12 POS.	MOLEX
16	-		39-00-0039	CONTACTS, MALE FOR PS1-P1, PS2-P1	MOLEX
17					
18	-		749626-2	BACK SHELL (FOR PS1-P1)	
19	2		749626-2	BACK SHELL (FOR PS1-P1 & PS2-P1)	
20					
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JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE:

CABLE ASSEMBLY:
FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB

ASSY	DESCRIPTION
-501	SINGLE 4000W POWER SUPPLY {HC40-C1034}
-502	DUAL 2000W POWER SUPPLY {2 x HC20-C1164}
-503	DUAL 2000W POWER SUPPLY {2 x ECT21-C1020}
-504	SINGLE 4000W POWER SUPPLY WITH ISOLATION DIODE {HC4011-C12243} {HC2011-C1370}
-505	FN6000 P.S. {2 x FN6000}
-506	A -504 ASSEMBLY WITH SLIDE LATCH KIT ON THE PS1-P1 END.
-507	DUAL 2000W POWER SUPPLY (2xEJN-6000)

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL22212570-504	B
PREPARED BY W. Baronofsky	DATE 08/20/98	APPROVED BY M. Bricker
CHECKED BY	DATE	SHEET 1 OF 2

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	INITIAL RELEASE. 08/20/98	W.B.	MB: 01/99
3328	A	NUMEROUS CHANGES PER ECN. 03/11/99	MTS	DWM 04/26/99
	B	ADDED -506 & 507 ASSEMBLYS. 04/26/99	MTS	

ACRODYNE

BLUE BELL, PA

Title
CABLE ASSEMBLY:
FOR USE WITH DC POWER SUPPLY FUSE AND
DISTRIBUTION PCB

PL22212570-504

REV: A

PREPARED BY

W. Baronofsky

SHEET NO.

2

ITEM	QUAN. REQD.	REFERENCE DESIGNATION	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
1	1	P1	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
2	8		02-06-2103	CONTACTS, MALE FOR P1	MOLEX
3	1	PS1-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
4	-	PS1-P1, PS2-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
5	1	W1		WIRE, #22 AWG, THHN, BRN	
6	1	W2		WIRE, #22 AWG, THHN, RED	
7	1	W3		WIRE, #22 AWG, THHN, ORG	
8	1	W4		WIRE, #22 AWG, THHN, YEL	
9	-	W1,5		WIRE, #22 AWG, THHN, BRN	
10	-	W2,6		WIRE, #22 AWG, THHN, RED	
11	-	W3,7		WIRE, #22 AWG, THHN, ORG	
12	-	W4,8		WIRE, #22 AWG, THHN, YEL	
13	-	P1,PS1-P1, PS1-P2, PS2-P1,PS2-P2	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
14	-		02-06-2103	CONTACTS, MALE FOR P1,PS1-P1, PS1-P2, PS2-P1, PS2-P2	MOLEX
15	-	PS1-P1, PS2-P1	39-01-2125	CONNECTOR, PLUG, 12 POS.	MOLEX
16	-		39-00-0039	CONTACTS, MALE FOR PS1-P1, PS2-P1	MOLEX
17					
18	1		749626-2	BACK SHELL (FOR PS1-P1)	
19	-		749626-2	BACK SHELL (FOR PS1-P1 & PS2-P1)	
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JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE:

CABLE ASSEMBLY:
FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB

ASSY	DESCRIPTION
-501	SINGLE 4000W POWER SUPPLY {HC40-C1034}
-502	DUAL 2000W POWER SUPPLY {2 x HC20-C1164}
-503	DUAL 2000W POWER SUPPLY {2 x ECT21-C1020}
-504	SINGLE 4000W POWER SUPPLY WITH ISOLATION DIODE {HC4011-C12243} {HC2011-C1370}
505	FN6000 P.S. {2 x FN6000}
-506	A -504 ASSEMBLY WITH SLIDE LATCH KIT ON THE PS1-P1 END.
-507	DUAL 2000W POWER SUPPLY (2xEJN-6000)

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL22212570-505	B
PREPARED BY W. Baronofsky	DATE 08/20/98	APPROVED BY M. Bricker
CHECKED BY	DATE	SHEET 1 OF 2

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	INITIAL RELEASE. 08/20/98	W.B.	MB: 01/99
3328	A	NUMEROUS CHANGES PER ECN. 03/11/99	MTS	DWM 04/26/99
	B	ADDED -506 & 507 ASSEMBLYS. 04/26/99	MTS	

ACRODYNE BLUE BELL, PA	Title CABLE ASSEMBLY: FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB	PL22212570-505	REV: A
		PREPARED BY W. Baronofsky	SHEET NO. 2

QUAN. ITEM	REF. REQD.	REFERENCE DESIGNATION	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
1	1	P1	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
2	8		02-06-2103	CONTACTS, MALE FOR P1	MOLEX
3	-	PS1-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
4	-	PS1-P1, PS2-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
5	-	W1		WIRE, #22 AWG, THHN, BRN	
6	-	W2		WIRE, #22 AWG, THHN, RED	
7	-	W3		WIRE, #22 AWG, THHN, ORG	
8	-	W4		WIRE, #22 AWG, THHN, YEL	
9	2	W1,5		WIRE, #22 AWG, THHN, BRN	
10	2	W2,6		WIRE, #22 AWG, THHN, RED	
11	2	W3,7		WIRE, #22 AWG, THHN, ORG	
12	2	W4,8		WIRE, #22 AWG, THHN, YEL	
13	-	P1,PS1-P1, PS1-P2, PS2-P1,PS2-P2	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
14	-		02-06-2103	CONTACTS, MALE FOR P1,PS1-P1, PS1-P2, PS2-P1, PS2-P2	MOLEX
15	2	PS1-P1, PS2-P1	39-01-2125	CONNECTOR, PLUG, 12 POS.	MOLEX
16	8		39-00-0039	CONTACTS, MALE FOR PS1-P1, PS2-P1	MOLEX
17					
18	-		749626-2	BACK SHELL (FOR PS1-P1)	
19	-		749626-2	BACK SHELL (FOR PS1-P1 & PS2-P1)	
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31					

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE:

CABLE ASSEMBLY:
FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB

ASSY	DESCRIPTION
-501	SINGLE 4000W POWER SUPPLY {HC40-C1034}
-502	DUAL 2000W POWER SUPPLY {2 x HC20-C1164}
-503	DUAL 2000W POWER SUPPLY {2 x ECT21-C1020}
-504	SINGLE 4000W POWER SUPPLY WITH ISOLATION DIODE {HC4011-C12243} {HC2011-C1370}
-505	FN6000 P.S. {2 x FN6000}
-506	A -504 ASSEMBLY WITH SLIDE LATCH KIT ON THE PS1-P1 END.
-507	DUAL 2000W POWER SUPPLY (2xEJN-6000)

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL22212570-506	B
PREPARED BY W. Baronofsky	DATE 08/20/98	APPROVED BY M. Bricker
CHECKED BY	DATE	SHEET 1 OF 2

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	INITIAL RELEASE. 08/20/98	W.B.	MB: 01/99
3328	A	NUMEROUS CHANGES PER ECN. 03/11/99	MTS	DWM 04/26/99
	B	ADDED -506 ASSEMBLY. 04/26/99	MTS	DWM 04/26/99
	B	ADDED -506 & 507 ASSEMBLYS. 04/26/99	MTS	

ACRODYNE BLUE BELL, PA	Title CABLE ASSEMBLY: FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB	PL22212570-506	REV: B
		PREPARED BY W. Baronofsky	SHEET NO. 2

QUAN. ITEM	REQD.	REFERENCE DESIGNATION	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
1	1	P1	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
2	8		02-06-2103	CONTACTS, MALE FOR P1	MOLEX
3	1	PS1-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
4	-	PS1-P1, PS2-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
5	1	W1		WIRE, #22 AWG, THHN, BRN	
6	1	W2		WIRE, #22 AWG, THHN, RED	
7	1	W3		WIRE, #22 AWG, THHN, ORG	
8	1	W4		WIRE, #22 AWG, THHN, YEL	
9	-	W1,5		WIRE, #22 AWG, THHN, BRN	
10	-	W2,6		WIRE, #22 AWG, THHN, RED	
11	-	W3,7		WIRE, #22 AWG, THHN, ORG	
12	-	W4,8		WIRE, #22 AWG, THHN, YEL	
13	-	P1,PS1-P1, PS1-P2, PS2-P1,PS2-P2	03-06-2092	CONNECTOR, PLUG, 9 POS	MOLEX
14	-		02-06-2103	CONTACTS, MALE FOR P1,PS1-P1, PS1-P2, PS2-P1, PS2-P2	MOLEX
15	-	PS1-P1, PS2-P1	39-01-2125	CONNECTOR, PLUG, 12 POS.	MOLEX
16	-		39-00-0039	CONTACTS, MALE FOR PS1-P1, PS2-P1	MOLEX
17					
18	1		749626-2	BACK SHELL (FOR PS1-P1)	
19	-		749626-2	BACK SHELL (FOR PS1-P1 & PS2-P1)	
20	1		745584-3	SLIDE LATCH KIT	
21					
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JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE:

CABLE ASSEMBLY:
FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB

ASSY	DESCRIPTION
-501	SINGLE 4000W POWER SUPPLY {HC40-C1034}
-502	DUAL 2000W POWER SUPPLY {2 x HC20-C1164}
-503	DUAL 2000W POWER SUPPLY {2 x ECT21-C1020}
-504	SINGLE 4000W POWER SUPPLY WITH ISOLATION DIODE {HC4011-C12243} {HC2011-C1370}
505	FN6000 P.S. {2 x FN6000}
-506	A -504 ASSEMBLY WITH SLIDE LATCH KIT ON THE PS1-P1 END.
-507	DUAL 2000W POWER SUPPLY (2xEJN-6000)

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL22212570-507	B
PREPARED BY W. Baronofsky	DATE 08/20/98	APPROVED BY M. Bricker
CHECKED BY	DATE	SHEET 1 OF 2

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	INITIAL RELEASE. 08/20/98	W.B.	MB: 01/99
3328	A	NUMEROUS CHANGES PER ECN. 03/11/99	MTS	DWM 04/26/99
	B	ADDED -506 & 507 ASSEMBLYS. 04/26/99	MTS	

ACRODYNE BLUE BELL, PA	Title CABLE ASSEMBLY: FOR USE WITH DC POWER SUPPLY FUSE AND DISTRIBUTION PCB		PL22212570-507	REV: B
	PREPARED BY W. Baronofsky		SHEET NO. 2	

QUAN. ITEM	REFD. REQD.	REFERENCE DESIGNATION	PART OR IDENTIFYING NUMBER	DESCRIPTION	VENDER
1	1	P1	03-06-1092	CONNECTOR, PLUG, 9 POS.	MOLEX
2	-		02-06-2103	CONTACTS, MALE FOR P1	MOLEX
3	-	PS1-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
4	-	PS1-P1, PS2-P1	745496-2	CONNECTOR, PLUG, 25 POS. SUB-D	
5	-	W1		WIRE, #22 AWG, THHN, BRN	
6	-	W2		WIRE, #22 AWG, THHN, RED	
7	-	W3		WIRE, #22 AWG, THHN, ORG	
8	-	W4		WIRE, #22 AWG, THHN, YEL	
9	2	W1,5		WIRE, #22 AWG, THHN, BRN	
10	2	W2,6		WIRE, #22 AWG, THHN, RED	
11	2	W3,7		WIRE, #22 AWG, THHN, ORG	
12	2	W4,8		WIRE, #22 AWG, THHN, YEL	
13	2	PS1-P1, PS2-P1	03-06-2061	CONNECTOR, PLUG, 6 POS.	MOLEX
14	16		02-06-2103	CONTACTS, MALE FOR P1,PS1-P1, PS1-P2, PS2-P1, PS2-P2	MOLEX
15	-	PS1-P1, PS2-P1	39-01-2125	CONNECTOR, PLUG, 12 POS.	MOLEX
16	-		39-00-0039	CONTACTS, MALE FOR PS1-P1, PS2-P1	MOLEX
17					
18	-		749626-2	BACK SHELL (FOR PS1-P1)	
19	-		749626-2	BACK SHELL (FOR PS1-P1 & PS2-P1)	
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JOB NO.	NEXT ASSY.	USED ON	REF. DES.
99091	CH 7	TTI INC	

ASSY	DESCRIPTION
-501	Channel 7

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

APPLICATION DRAWING,TRH/1KE

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL22613202	B
PREPARED BY hcc	DATE 3/22/99	APPROVED BY DATE
CHECKED BY Bricker	DATE 3/99	SHEET 1 OF 2

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	-	Initial Release for Customer Review	hcc - 3/22/99	MB - 3/23/99
	A	On Drawing, Electrical Characteristics change per Customer	hcc - 3/30/99	MB - 3/30/99
	B	Add Cabinet Assy #; Items 4 & 6 Deleted, Modify Drawing to reflect 'As Built'	hcc - 5/19/99	

ACRODYNE BLUE BELL, PA	Title APPLICATION DRAWING TRH/1KE		PL 22613202 rev B	
			PREPARED BY hcc	SHEET NO. 2

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
1							
2	1				A1 22111237-502	Assembly, TRH/1KE Cabinet, Channel 7	ACRO
3							
4							
5							
6							
7							
8							
9							
10	1				21113110-99091	Accessory Kit	ACRO
11							
12	1				NPN	Vendor & Test Data	
13	2				NPN	Instruction Manual Set	
14							
15							
16							
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23							
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25							

JOB NO.	NEXT ASSY.	USED ON	REF. DES.
	24103987	TRH/10KA	

ASSY	DESCRIPTION
-501	VHF HIGH 7 - 13 (PLUG-IN)
-502	VHF LOW 2-6 (PLUG-IN)
-503	TRAY STYLE HIGH 7 - 13
-504	TRAY STYLE LOW 2 - 6
-505	VHF HIGH 7 - 13, HORIZONTAL PLATE(TLH/400E)
-506	VHF LOW 2 - 6, HORIZONTAL PLATE
-507	VHF HIGH 7 -13, VERTICAL PLATE (TRH/1KS)
-508	VHF LOW 2 - 6, VERTICAL PLATE
-509	-503 WITH RF OUT HORIZONTAL EXIT, (TRL/40)
-510	-504 WITH RF OUT HORIZONTAL EXIT, (TRL/40)

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
1340	A	CHANGES TO ASSEMBLY ONLY	10/21/87	BENENSKY
	B	ADDED -503 & -504	JP 4/25/88	T H 4/88
	C	ADDED -505 THRU -508	CSM 6/21/93	
	D	ADDED -509 & -510	CMI 4/13/97	MB 4/97
3031	E	PER ECN, ADDED SECTION A-A	HFG 3/3/98	MB 3/98
3042	F	ADD ITEM 17 - 3/98	hcc	

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

ASSEMBLY, 1 WATT AMP. MODULE VHF

CODE IDENT	DOCUMENT NUMBER		REVISION
51336	PL23203934		F
PREPARED BY C.MOORE	DATE 11/24/86	APPROVED BY T.HULICK	DATE 12/4/86
CHECKED BY M.BRICKER	DATE 4/27/88	SHEET 1 OF 4	

ACRODYNE

BLUE BELL, PA

Title
**ASSEMBLY, 1 WATT
AMP MODULE, VHF**

PL 23203934 Rev F

PREPARED BY

CSM

SHEET NO.

2

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
1								
2	X	X	X	X	X	22504185	SCHEMATIC	
3								
4	1	-	1	-	A1	24203930-501	P.C. BOARD, FINAL AMP VHF(7 - 13)	
5	-	1	-	1	A1	24204178-501	P.C. BOARD, FINAL AMP VHF(2 - 6)	
6	-	-	-	-	A2	22203498	P.C. BOARD, EDGE CONNECTOR	
7								
8	3	3	-	-	C1,2,3	54-713-001-102P	CAPACITOR, FEED-THRU, 1000Pf	
9	-	-	2	2	C1,2	54-713-001-102P	CAPACITOR, FEED-THRU, 1000pF	
10								
11	3	3	3	3	W1,2,3		INSULATED BUSS WIRE	
12	1	-	1	-	W4	23200165-5-L-30-4	CABLE ASSEMBLY	
13	1	-	1	-	W5	23200165-5-L-30-15	CABLE ASSEMBLY	
14	-	1	-	1	W4	23200165-5-H-30-3	CABLE ASSEMBLY	
15	-	1	-	1	W5	23200165-5-H-30-14	CABLE ASSEMBLY	
16	3	3	3	3	W6,7,8		INSULATED BUSS WIRE	
17	-	-	-	-		24307430	HEATSINK PLATE	
18	-	-	-	-		22304723-02	COVER	
19	1	1	-	-		24303933	BOTTOM PLATE	
20	2	2	-	-		23303084	SIDE RAIL	
21	1	1	-	-		23301821	FRONT PLATE	
22	1	1	-	-		22303085	CARD END PLATE	
23	1	1	-	-		23303086	COVER	
24	-	-	1	1		23304691	HEAT SINK	
25	-	-	1	1		22304723-01	COVER	
26	-	-	1	1		1453-M06-F16-440	SPACER	
27	12	12	-	-			SCREW, FLAT HD., #4-40 X 3/16" LG.	
28	8	8	-	-			SCREW, FLAT HD., #4-40 X 1/2" LG.	
29	4	4	-	-			SCREW, PAN HD., #4-40 X 3/16" LG.	
30	4	4	-	-			WASHER, LOCK, #4	
31	2	2	-	-			SCREW, PAN HD., #4-40 X 5/16" LG.	
32	-	-	-	-		24307430	HEATSINK PLATE	
33	-	-	4	4			SCREW, PAN HD., #4-40 X 5/16" LG.	
34	-	-	4	-		9743-A-0440	SPACER	

ACRODYNE

BLUE BELL, PA

Title
**ASSEMBLY, 1 WATT
AMP MODULE, VHF**

PL 23203934 Rev F

PREPARED BY

CSM

SHEET NO.

3

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
1								
2	X	X	X	X	X	22504185	SCHEMATIC	
3								
4	1	-	1	-	A1	24203930-501	P.C. BOARD, FINAL AMP VHF(7 - 13)	
5	-	-	-	-	A1	24204178-501	P.C. BOARD, FINAL AMP VHF(2 - 6)	
6	-	-	-	-	A2	22203498	P.C. BOARD, EDGE CONNECTOR	
7								
8	-	-	-	-	C1,2,3	54-713-001-102P	CAPACITOR, FEED-THRU, 1000Pf	
9	2	2	-	-	C1,2	54-713-001-102P	CAPACITOR, FEED-THRU, 1000pF	
10								
11	3	3	3	3	W1,2,3		INSULATED BUSS WIRE	
12	1	1	-	1	W4	23200165-5-L-30-4	CABLE ASSEMBLY	
13	1	1	-	1	W5	23200165-5-L-30-15	CABLE ASSEMBLY	
14	-	-	1	-	W4	23200165-5-H-30-3	CABLE ASSEMBLY	
15	-	-	1	-	W5	23200165-5-H-30-14	CABLE ASSEMBLY	
16	3	3	3	3	W6,7,8		INSULATED BUSS WIRE	
17	-	-	-	-		24307430	HEATSINK PLATE	
18	-	-	-	-		22304723-02	COVER	
19	-	-	-	-		24303933	BOTTOM PLATE	
20	-	-	-	-		23303084	SIDE RAIL	
21	-	-	-	-		23301821	FRONT PLATE	
22	-	-	-	-		22303085	CARD END PLATE	
23	-	-	-	-		23303086	COVER	
24	-	1	1	-		23304691	HEAT SINK	
25	1	1	1	1		22304723-01	COVER	
26	-	4	1	1		1453-M06-F16-440	SPACER	
27	-	-	-	-			SCREW, FLAT HD., #4-40 X 3/16" LG.	
28	-	-	-	-			SCREW, FLAT HD., #4-40 X 1/2" LG.	
29	-	-	-	-			SCREW, PAN HD., #4-40 X 3/16" LG.	
30	-	-	-	-			WASHER, LOCK, #4	
31	-	-	-	-			SCREW, PAN HD., #4-40 X 5/16" LG.	
32	1	1	-	-		24307430	HEATSINK PLATE	
33	4	4	4	4			SCREW, PAN HD., #4-40 X 5/16" LG.	
34	-	-	1	1		22308117	HEATSINK PLATE	

ACRODYNE

BLUE BELL, PA

Title
**ASSEMBLY, 1 WATT
AMP MODULE, VHF**

PL 23203934 Rev F

PREPARED BY

CSM

SHEET NO.

4

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-509	-510	-511	-512	DES. IDENTIFYING NUMBER		
1							
2	X	X			X	22504185	SCHEMATIC
3							
4	1	-			A1	24203930-501	P.C. BOARD, FINAL AMP VHF(7 - 13)
5	-	1			A1	24204178-501	P.C. BOARD, FINAL AMP VHF(2 - 6)
6	-	-			A2	22203498	P.C. BOARD, EDGE CONNECTOR
7							
8	-	-			C1,2,3	54-713-001-102P	CAPACITOR, FEED-THRU, 1000Pf
9	2	2			C1,2	54-713-001-102P	CAPACITOR, FEED-THRU, 1000pF
10							
11	3	3			W1,2,3		INSULATED BUSS WIRE
12	1	-			W4	23200165-5-L-30-4	CABLE ASSEMBLY
13	1	-			W5	23200165-5-L-30-15	CABLE ASSEMBLY
14	-	1			W4	23200165-5-H-30-3	CABLE ASSEMBLY
15	-	1			W5	23200165-5-H-30-14	CABLE ASSEMBLY
16	3	3			W6,7,8		INSULATED BUSS WIRE
17	1	-				24307430	HEATSINK PLATE
18	1	1				22304723-02	COVER
19	-	-				24303933	BOTTOM PLATE
20	-	-				23303084	SIDE RAIL
21	-	-				23301821	FRONT PLATE
22	-	-				22303085	CARD END PLATE
23	-	-				23303086	COVER
24	-	-				23304691	HEAT SINK
25	-	-				22304723-01	COVER
26	-	4				1453-M06-F16-440	SPACER
27	-	-					SCREW, FLAT HD., #4-40 X 3/16" LG.
28	-	-					SCREW, FLAT HD., #4-40 X 1/2" LG.
29	-	-					SCREW, PAN HD., #4-40 X 3/16" LG.
30	-	-					WASHER, LOCK, #4
31	-	-					SCREW, PAN HD., #4-40 X 5/16" LG.
32	1	1				24307430	HEATSINK PLATE
33	4	4					SCREW, PAN HD., #4-40 X 5/16" LG.
34	4	-				9743-A-0440	SPACER

JOB NO.	NEXT ASSY.	USED ON	REF. DES.
		TRL/5KA	-501
	23110361	AU120D	-502

ASSY	DESCRIPTION
-501	12VDC, 5.1A
-502	24VDC, 3.6A, 120VAC
-503	24VDC, 2.4A, 120VAC
-504	24VDC, 2.4A, 240VAC
-505	12VDC, 5.1A, 120VAC
-506	12VDC, 5.1A, 240VAC

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE
**ASSEMBLY, POWER
SUPPLY, 12V/24V**

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL23206425	G
PREPARED BY T. NEAL	DATE 6/10/91	APPROVED BY M. BRICKER
CHECKED BY M. BRICKER	DATE 2/6/98	DATE 2/6/98
SHEET 1 OF 3		

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
2053	A	SEE ECN 2053	4/8/92	
	B	ADDED ITEMS 10, 11 & 12	HFG 10/11/95	
	C	ADDED # CORRECTION #12	MTS 11/16/95	
	D	ADDED POWER SUPPLY COVER	MC 5/3/96	
	E	ADDED -02, CHANGED TITLE	CMI 8/1/96	CM 7/17/96
3050	F	ADDED -503 & -504, GENERAL REVISION PER ECN	HFG 12/15/97	MB 2/6/98
3087 3145	G	ADDED -505 & -506, REDRAWN ON CAD & SEE ECNS FOR PL CHANGES	HFG 5/13/98	

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BLUE BELL, PA

Title
**ASSEMBLY, POWER
SUPPLY, 12V/24V**

PL 23206425 Rev. G

PREPARED BY
T. NEAL

SHEET NO.
2

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
1	X	-	-	-	X	22506426-01	SCHEMATIC	
2	-	X	X	X	X	22506426-02	SCHEMATIC	
3								
4	7	-	-	-	C1-7	199D476X0020	CAPACITOR, 47Uf, 20V , TANT, ALUMINUM	
5								
6	1	-	-	-	PS1	HN12-5.1A	POWER SUPPLY, 12V/RA	
7	-	1	-	-	PS1	HN24-3.6A	POWER SUPPLY, 24VDC, 3.6A	
8	-	-	1	1	PS1	HC24-2.4A	POWER SUPPLY, 24VDC, 2.4A	
9								
10	1	1	1	-	RV1	VI30LA10A	VARISTOR, 130VAC	
11	-	-	-	1	RV1	V250LA40A	VARISTOR, 250VAC	
12								
13	1	-	-	-	TB501	TSB23012DS	TERMINAL BLOCK, 12 POSITION	
14	-	1	-	-	TB1	TSB23012DS	TERMINAL BLOCK, 12 POSITION	
15	-	-	1	1	TB1	TSB23012DS	TERMINAL BLOCK, 7 POSITION	
16	1	-	-	-		OVP-12	OVP OPTION PS1	
17	8	8	3	3			314 AWG. BUSS WIRE	
18	2	2	2	2		1414-4	GROUND LUG	
19	1	-	-	-		22306493-01	PANEL	
20	-	1	-	-		22306493-02	PANEL	
21	-	-	1	1		22309614	PANEL	
22	1	1	-	-		22310259	COVER, (PS1)	
23	-	-	1	1		22310242	COVER(PS1)	
24	1	1	1	1		PSSB-13	LABEL, "DANGER HIGH VOLTAGE"	
25	4	4	4	4		8517-A-0832	STANDOFF	
26								
27								
28	8	8	8	8			SCREWS, PAN HD., #8-32 X 3/8" LG.	
29	8	8	8	8			WASHER, LOCK, #8	
30	3	3	2	2			SCREW, PAN HD., #4-40 X 5/8" LG.	
31	1	1	1	1			SCREW, PAN HD., #4-40 X 5/16" LG.	
32	4	4	3	3			WASHER, LOCK, #4	
1	X	X			X	22506426-01	SCHEMATIC	

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BLUE BELL, PA

Title
**ASSEMBLY, POWER
SUPPLY, 12V/24V**

PL 23206425 Rev. G

PREPARED BY
T. NEAL

SHEET NO.
3

QUANTITY REQUIRED				REFERENCE	PART OR		DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
2	-	-			X	22506426-02	SCHEMATIC	
3								
4	7	7			C1-7	199D476X0020	CAPACITOR, 47Uf, 20V , TANT, ALUMINUM	
5								
6	1	1			PS1	HN12-5.1A	POWER SUPPLY, 12V/5A	
7	-	-			PS1	HN24-3.6A	POWER SUPPLY, 24VDC, 3.6A	
8	-	-			PS1	HC24-2.4A	POWER SUPPLY, 24VDC, 2.4A	
9								
10	1	1			RV1	VI30LA10A	VARISTOR, 130VAC	
11	-	-			RV1	V250LA40A	VARISTOR, 250VAC	
12								
13	1	1			TB501	TSB23012DS	TERMINAL BLOCK, 12 POSITION	
14	-	-			TB1	TSB23012DS	TERMINAL BLOCK, 12 POSITION	
15	-	-			TB1	TSB23012DS	TERMINAL BLOCK, 7 POSITION	
16	1	1				OVP-12	OVP OPTION PS1	
17	8	8					314 AWG. BUSS WIRE	
18	2	2				1414-4	GROUND LUG	
19	1	1				22306493-01	PANEL	
20	-	-				22306493-02	PANEL	
21	-	-				22309614	PANEL	
22	1	1				22310259	COVER, (PS1)	
23	-	-				22310242	COVER(PS1)	
24	1	1				PSSB-13	LABEL, "DANGER HIGH VOLTAGE"	
25	4	4				8517-A-0832	STANDOFF	
26								
27								
28	8	8					SCREWS, PAN HD., #8-32 X 3/8" LG.	
29	8	8					WASHER, LOCK, #8	
30	3	3					SCREW, PAN HD., #4-40 X 5/8" LG.	
31	1	1					SCREW, PAN HD., #4-40 X 5/16" LG.	
32	4	4					WASHER, LOCK, #4	

JOB NO.	NEXT ASSY.	USED ON	REF. DES.
		TLU/1KAE	A4

ASSY	DESCRIPTION
501	TUBE TYPE TX. XMIT. RDY. LEDS.
502	TUBE TYPE TX. NO XMIT. RDY. LEDS.
503	SS TYPE TX. XMIT. RDY. LEDS.
504	SS TYPE TX. NO XMIT. RDY. LEDS. 4.5 MHZ POWER MON.
505	SS TYPE. NO XMIT READY LEDS. NO RF POWER METER.
506	TUBE TYPE TX. XMIT RDY LEDS, AURAL/DTV USAGE
507	TUBE TYPE TX. XMIT RDY LEDS. IPA INTERLOCK TO HPA
508	SS TYPE TX. NO XMIT. RDY LEDS. AURAL/ DTV USAGE
509	SS TYPE TX. NO XMIT. RDY LEDS. 5.5 MHZ POWER MON. BOX

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ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

ASSEMBLY, CONTROL LOGIC CHASSIS

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL23206588	O
PREPARED BY CMI	DATE 4/22/96	APPROVED BY BRICKER
CHECKED BY BRICKER	DATE 5/96	DATE 5/96
SHEET 1 OF 7		

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
2747	I	CORRECTED CABLE TYPE ON W1-3. ALL VERSIONS.	1/97 MTS	01/97 MB
	J	ADDED -507 ASSY	02/97 MTS	02/97 MB
2800	K	ADDITIONAL ASSY. DRWG/PL INFORMATION & CORRECTIONS	03/97 MTS	03/97 MB
2976	L	FIX CABLE NUMBERING OF ITEM 32 -	11/97 - HCC	12/97 MB
3033	M	ITEM 22 WAS 2W3DMA001, ITEM 47 WAS 21306621-01, DEL. ITEM 61 HG		SMJ
	N	ADDED -508 ASSY, CONVERTED TO WORD	10/11/98 JJC	2/12/99 DM
3357	O	ADDED -509 ASSY; MODIFIED -504 ASSY	3/26/99 AJG	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
CONTROL LOGIC CHASSIS

PL23206588 Rev O

PREPARED BY

CMI

SHEET NO.

2

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
1	X	X	X	X		24506619	WIRING DIAGRAM - 120V	
2	X	X	X	X		22007021	CONTROLS & INDICATORS	
3								
4	1	-	-	-	A1	23206596-502	CONTROL LOGIC PCB	
5	-	1	-	-	A1	23206596-503	CONTROL LOGIC PCB	
6	-	-	1	-	A1	23206596-501	CONTROL LOGIC PCB	
7	-	-	-	1	A1	23206596-504	CONTROL LOGIC PCB	
8								
9	1	1	1	1	A3	22207217-504	RF POWER MONITOR PCB 22207217-504=(4. 5MHz AURAL)	
10								
11	1	1	1	1	C1	RPE121Z5U104M50	CAPACITOR 0.1uF/50V	
12	2	2	2	2	CR1, 2	1N4002	DIODE	
13								
14	2	2	2	2	E1,2	54B	TERMINAL STRIP (4 POSITION)	
15								
16	1	1	1	1	F1	SELECT PER DESCRIPTION	120VAC. MDL-1/2 240VAC. MDL-1/4	
17	1	1	1	1	FL1	6J4	LINE FILTER	
18								
19	3	3	3	3	J1,71,72	UG-492 D/U	CONNECTOR, BNC, PANEL STRAIGHT	
20	1	1	1	1	J21	206151-1	CONNECTOR, 37 POS.	
21								
22	1	1	1	1	M1	21607572	METER 1mA, 35 OHM	
23								
24	1	1	1	1	P1	65846-004	CONNECTOR, 40 PIN	
25	1	1	1	1	PS1	HB12-1.7	POWER SUPPLY 12V/1 1.7A	
26								
27	1	1	1	1	R1	RC07GF153J	RESISTOR 15K OHM	
28	1	1	1	1	RV1	SELECT PER DESCRIPTION	120V. = V 130LA10A 240V. = V 250LA40A	
29								
30	1	1	1	1	S1	PA-2003	SWITCH CENTRALAB	
31								
32	1	1	1	1	W1	23200165-16-D-16-12	CABLE ASSY.	
33	1	1	1	1	W2	23200165-16-D-16-12	CABLE ASSY.	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
CONTROL LOGIC CHASSIS

PL23206588 Rev O

PREPARED BY

CMI

SHEET NO.

3

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
34	1	1	1	1	W3	23200165-16-D-16-12	CABLE ASSY.	
35								
36								
37	1	-	-	-		24306600-02	DETAIL : FRONT PANEL	
38	-	1	-	-		24306600-01	DETAIL : FRONT PANEL	
39	-	-	1	-		24306600-04	DETAIL : FRONT PANEL	
40	-	-	-	1		24306600-03	DETAIL : FRONT PANEL	
41	1	1	1	1		24306608-01	DETAIL : REAR PANEL	
42	2	2	2	2		23306355-01	DETAIL : FRONT LIP	
43	1	1	1	1		24306607-01	DETAIL : LOGIC CHASSIS	
44	1	1	1	1		24306633-01	DETAIL : CHASSIS COVER	
45	1PR	1PR	1PR	1PR		C-300-S-16	16" SLIDES GENERAL DEVICES	
46	2	2	2	2		B4-10-103-12	HANDLE (SOUTHCO)	
47	1	1	1	1		21311547-01	DETAIL, LOGIC METER FACE	
48	2	2	2	2		22306910-01	METER BRACKET	
49	8	8	8	8		66589-2	CONNECTOR PINS	
50	25	25	25	25		66593-2	CONNECTOR PINS	
51	1	1	1	1		PS-70PL-2	KNOB	
52	4	4	4	4		9226-B-115-3A	STANDOFF 3/8" LG #4 CLEARENCE	
53	34	34	34	34			SCREW, 4-40, FLAT HEAD, ¼ LG	
54	14	14	14	14			SCREW, 4-40, PAN HEAD, ½" LG	
55	26	12	12	12			WASHER, #4, LOCK	
56	26	12	12	12			WASHER, # 4, FLAT	
57	6	6	6	6			NUT, 4-40, HEX	
58	8	8	8	8			WASHER, #6, LOCK	
59	8	8	8	8			WASHER, #6, FLAT	
60	4	4	4	4			NUT, 6-32, HEX	
61								
62								
63								

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
CONTROL LOGIC CHASSIS

PL23206588 Rev O

PREPARED BY

CMI

SHEET NO.

4

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
1	X				X	22510197	WIRING DIAGRAM	
2		X			X	24510546	WIRING DIAGRAM	
3			X	X	X	24506619	WIRING DIAGRAM	
4	X	X	X	X	X	22007021	CONTROLS & INDICATORS	
5								
6	1	-	-	-	A1	23206596-505	CONTROL LOGIC PCB	
7	-	1	-	-	A1	23206596-502	CONTROL LOGIC PCB	
8	-	-	1	-	A1	23206596-506	CONTROL LOGIC BOARD	
9	-	-	-	1	A1	23206596-504	CONTROL LOGIC BOARD	
10	-	1	1	1	A3	SELECT PER DESCRIPTION	RF POWER MONITOR PCB 22207217-504=(4. 5MHz AURAL) 22207217-508=(5. 5MHz / 6. 5MHz AURAL)	
11								
12	1	1	1	1	C1	RPE121Z5U104M50	CAPACITOR 0.1uF/50V	
13	1	1	1	1	CR2	1N4002	DIODE	
14								
15	2	2	2	2	E1,2	54B	TERMINAL STRIP (4 POSITION)	
16								
17	1	1	1	1	F1	SELECT PER DESCRIPTION	120VAC, MDL-1/2 240VAC, MDL-1/4	
18	1	1	1	1	FL1	6J4	LINE FILTER	
19	-	3	3	3	J1,71,72	UG-492 D/V	CONNECTOR, BNC, PANEL, STRAIGHT	
20	1	1	1	1	J21	206151-1	CONNECTOR, 37 POS	
21								
22	-	1	1	1	M1	216075721	METER, 1mA, 350 OHM	
23								
24	1	1	1	1	P1	65846-004	40 PIN CONNECTOR	
25	1	1	1	1	PS1	HB12-1.7	POWER SUPPLY 12V/1.7A	
26								
27	-	1	1	1	R1	RC07GF153J	RESISTOR, 15K OHM	
28	1	1	1	1	RV1	SELECT PER DESCRIPTION	120V. = V 130LA10A 240V. = V 250LA40A	
29								
30	-	1	1	1	S1	PA2003	SWITCH CENTRAL AB	
31								
32	-	1	1	1	W1	23200165-16-D-16-12	CABLE ASSEMBLY	
33	-	1	1	1	W2	23200165-16-D-16-12	CABLE ASSEMBLY	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
CONTROL LOGIC CHASSIS

PL23206588 Rev O

PREPARED BY

CMI

SHEET NO.

5

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
34	-	1	1	1	W3	23200165-16-D-16-12	CABLE ASSEMBLY	
35								
36								
37	1	-	-	-		24306600-05	DETAIL : FRONT PANEL	
38	-	1	-	-		24306600-06	DETAIL : FRONT PANEL	
39	-	-	1	-		24306600-02	DETAIL : FRONT PANEL	
40	-	-	-	1		24306600-08	DETIAL : FRONT PANEL	
41	1	1	1	1		24306608-01	DETAIL : REAR PANEL	
42	2	2	2	2		23306355-01	DETAIL : FRONT LIP	
43	1	1	1	1		24306607-01	DETAIL : LOGIC CHASSIS	
44	1	1	1	1		24306633-01	DETAIL : CHASSIS COVER	
45	1PR	1PR	1PR	1PR		C-300-S-16	16" SLIDES : GENERAL DEVICES	
46	2	2	2	2		B4-10-103-12	HANDLE : SOUTHCO	
47	-	1	1	1		21311547-01	DETAIL , LOGIC METER FACE	
48	-	2	2	2		22306910-01	METER BRACKET	
49	8	8	8	8		66589-2	CONNECTOR PINS	
50	25	25	25	25		66593-2	CONNECTOR PINS	
51	-	1	1	1		PS-70PL-2	KNOB	
52	4	4	4	4		9226-B-115-3A	STANDOFF 3/8" LG #4 CLEARENCE	
53	34	34	34	34			SCREW, 4-40, FLAT HEAD ¼" LG	
54	14	14	14	14			SCREW, 4-40, PAN HEAD , ½: LG.	
55	24	24	24	24			WASHER, #4, LOCK	
56	24	24	24	24			WASHER, #4, FLAT	
57	6	6	6	6			NUT, 4-40, HEX	
58	8	8	8	8			WASHER, #6, LOCK	
59	8	8	8	8			WASHER, #6, FLAT	
60	4	4	4	4			NUT, 6-32, HEX	
61								
62								
63								
64								

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BLUE BELL, PA

Title
ASSEMBLY
CONTROL LOGIC CHASSIS

PL23206588 Rev O

PREPARED BY

CMI

SHEET NO.

6

QUANTITY REQUIRED		REFERENCE		PART OR		DESCRIPTION	VENDER
ITEM	-509	DES.	IDENTIFYING NUMBER				
1	X				24506619	WIRING DIAGRAM - 120V	
2	X				22007021	CONTROLS & INDICATORS	
3							
4	1			A1	23206596-502	CONTROL LOGIC PCB	
5	-			A1	23206596-503	CONTROL LOGIC PCB	
6	-			A1	23206596-501	CONTROL LOGIC PCB	
7	-			A1	23206596-504	CONTROL LOGIC PCB	
8							
9	1			A3	22207217-508	RF POWER MONITOR PCB 22207217-504=(4. 5MHz AURAL)	
10							
11	1			C1	RPE121Z5U104M50	CAPACITOR 0.1uF/50V	
12	2			CR1, 2	1N4002	DIODE	
13							
14	2			E1,2	54B	TERMINAL STRIP (4 POSITION)	
15							
16	1			F1	SELECT PER DESCRIPTION	120VAC. MDL-1/2 240VAC. MDL-1/4	
17	1			FL1	6J4	LINE FILTER	
18							
19	3			J1,71,72	UG-492 D/U	CONNECTOR, BNC, PANEL STRAIGHT	
20	1			J21	206151-1	CONNECTOR, 37 POS.	
21							
22	1			M1	21607572	METER 1mA, 35 OHM	
23							
24	1			P1	65846-004	CONNECTOR, 40 PIN	
25	1			PS1	HB12-1.7	POWER SUPPLY 12V/1 1.7A	
26							
27	1			R1	RC07GF153J	RESISTOR 15K OHM	
28	1			RV1	SELECT PER DESCRIPTION	120V. = V 130LA10A 240V. = V 250LA40A	
29							
30	1			S1	PA-2003	SWITCH CENTRALAB	
31							
32	1			W1	23200165-16-D-16-12	CABLE ASSY.	
33	1			W2	23200165-16-D-16-12	CABLE ASSY.	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
CONTROL LOGIC CHASSIS

PL23206588 Rev O

PREPARED BY

CMI

SHEET NO.

7

QUANTITY REQUIRED					REFERENCE	PART OR			
ITEM	-509				DES.	IDENTIFYING NUMBER	DESCRIPTION		VENDER
34	1				W3	23200165-16-D-16-12	CABLE ASSY.		
35									
36									
37	1					24306600-02	DETAIL : FRONT PANEL		
38	-					24306600-01	DETAIL : FRONT PANEL		
39	-					24306600-04	DETAIL : FRONT PANEL		
40	-					24306600-03	DETAIL : FRONT PANEL		
41	1					24306608-01	DETAIL : REAR PANEL		
42	2					23306355-01	DETAIL : FRONT LIP		
43	1					24306607-01	DETAIL : LOGIC CHASSIS		
44	1					24306633-01	DETAIL : CHASSIS COVER		
45	1PR					C-300-S-16	16” SLIDES GENERAL DEVICES		
46	2					B4-10-103-12	HANDLE (SOUTHCO)		
47	1					21311547-01	DETAIL, LOGIC METER FACE		
48	2					22306910-01	METER BRACKET		
49	8					66589-2	CONNECTOR PINS		
50	25					66593-2	CONNECTOR PINS		
51	1					PS-70PL-2	KNOB		
52	4					9226-B-115-3A	STANDOFF 3/8” LG #4 CLEARENCE		
53	34						SCREW, 4-40, FLAT HEAD, ¼ LG		
54	14						SCREW, 4-40, PAN HEAD, ½” LG		
55	26						WASHER, #4, LOCK		
56	26						WASHER, # 4, FLAT		
57	6						NUT, 4-40, HEX		
58	8						WASHER, #6, LOCK		
59	8						WASHER, #6, FLAT		
60	4						NUT, 6-32, HEX		
61									
62									
63									

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ASSY	DESCRIPTION
501	S.S USE TRANSMIT READY LED
502	TRANSMIT READY LED. TUBE USE
503	NO TRANSMIT READY LED. TUBE USE
504	NO TRANSMIT READY LED. NO PA CURRENT FAULT LED
505	S. S. USE TRANSMIT READY, 12VPS LED
506	INSURE PROPER CONTROL OF IPA WITH HPA BYPASS CONTROLLER
507	PLC CONTROL COMPATIBLE/KCPT
508	PLC CONTROL COMPATIBLE

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ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

ASSEMBLY: LOGIC P.C. BOARD

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL23206596	K
PREPARED BY T. NEAL	DATE 8/1/91	APPROVED BY T. HULICK
CHECKED BY M. BRICKER	DATE 8/25/92	DATE 3/30/92
SHEET 1 OF 5		

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
1968	A	SEE ENGINEERING CHANGE NOTICE	9/30/91	MB
	B	ADDED -504 ASSY. REG 3/92	2/23/92	MB
2131	C	SEE ENGINEERING CHANGE NOTICE JB 9/92	9/30/92	MB
	D	ADDED -505 ASSY. MTS 4/96	4/96	MB
2608	E	-505 DELETE CR4, CR5 (PL)hcc	6/96	MB
2662	F	FIX ITEM #13 hcc	11/96	MB
	G	ADD -506 FOR COLFAX hcc	12/96	MB
2805	H	R15 WAS 1K CMI	3/12/97	MB 3/97
-	I	NEW ARTWORK. ADDED JP8 MCC	9/12/97	MB 2/98
-	J	ADDED -507, -506 W/O S1, K1, K2, ITEM #37	JJC 12/01/98	
-	K	-508 ADDED	JJC 3/15/99	

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BLUE BELL, PA

**Title
ASSEMBLY
LOGIC P. C. BOARD****PL 23206596 Rev K**PREPARED BY
T. NEALSHEET NO.
2

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
1	X	X	X	X		23506605	SCEMATIC , SHEET #1	
2	1	1	1	1		24406591	P. C. BOARD	
3	8	8	8	8	B1-7, 9	26640000101	FERRITE BEAD	
4	-	1	1	-	B8	26640000101	FERRITE BEAD	
5	20	20	20	20	C1-14,17,18, 24,25,28,29	RPE121Z5U104M50	CAPACITOR , 1uF	
6	-	5	5	-	C15,16,19,20 ,22	RPE121Z5U104M50	CAPACITOR , 1uF	
7	-	1	1	-	C21	199D106X902CAI	CAPACITOR , 10uF , 20V	
8	2	2	2	2	C23,26	199D106X902CAI	CAPACITOR , 10uF , 20V	
9	1	1	1	1	C27	196D476X9020	CAPACITOR , 47uF, 20V	
10	2	2	2	2	CR1,3	5082-4950-HLMP-3502	DIODE , LED , GREEN	
11	-	1	1	-	CR2	5082-4822-HLMP-3001	DIODE , LED , RED	
12	2	2	-	-	CR4,5	5082-4950-HLMP-3502	DIODE , LED , GREEN	
13	19	19	19	19	CR6-18,21- 24,32,33	1N4007	DIODE , 1A	
14	8	8	8	8	CR19,25-31	1N914	DIODE , 100V , 100mA	
15	-	1	1	-	CR20	1N914	DIODE , 100V, 100mA	
16								
17	1	1	1	1	JP1	65507-436	HEADER (3 PINS)	
18	4	4	4	4	JP2,3,4,6	65507-436	HEADER (2 PINS)	
19	1	1	1	1	J1	65863-085	CONNECTOR, 40 PIN	
20								
21	2	2	2	2	K1,2	327-21B200	RELAY , 12VDC	
22								
23	11	11	11	11	R1,4,5,8,9,10 -13,19,24	RC07GF102J	RESISTOR , 1K , 1/4W	
24	5	5	5	5	R2,3,6,27,29	RC07GF103J	RESISTOR , 10K , 1/4W	
25	-	1	1	-	R7	RC07GF184J	RESISTOR , 180K ,1/4W	
26	-	4	4	-	R14,16,18,22	RC07GF103J	RESISTOR ,10K , 1/4W	
27	-	1	1	-	R15	RC07GF302J	RESISTOR , 3K , 1/4W	
28	-	1	1	-	R17	RC07GF202J	RESISTOR , 2K , 1/4W	
29	-	1	1	-	R20	RC07GF105J	RESISTOR , 1M , 1/4W	
30	-	2	2	-	R21,28	RC07GF102J	RESISTOR , 1K , 1/4W	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
LOGIC P. C. BOARD

PL 23206596 Rev K

PREPARED BY
T. NEAL

SHEET NO.
3

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
31	2	2	2	2	R23,25	RC07GF104J	RESISTOR , 100K , 1/4W	
32	1	1	1		R26	RC07GF202J	RESISTOR , 2K , 1/4W	
33	-	1	1	-	R30	RC07GF684J	RESISTOR , 680K , 1/4W	
34	1	1	-	-	R42	RC07GF102J	RESISTOR , 1K , 1/4W	
35	1	1	1	1	S1	21606599	SWITCH , SPDT	
36								
37	2	2	2	2	U1,4	ULN2004	I. C. SEVEN SEGEMENT HIGH CURRENT DRIVER	
38	2	2	2	2	U2,3	LM311	I. C. COMPARATOR	
39	-	1	1	-	U5	LM358	I. C. DUAL OP-AMP	
40	-	1	1	-	U6	555	I. C. TIMER	
41								
42	4	5	3	2		44F5289	SPACER , LED , ¼"	
43	5	5	5	5	JP1,2,3,4,6	15-38-1024	PIN JUMPER	
44								
45	2	4	4	2		C8408-026	I. C. SOCKET, 8 PIN	
46	4	4	4	4		CA16CS2-TSD	I. C. SOCKET , 16 PIN	
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								

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BLUE BELL, PA

**Title
ASSEMBLY
LOGIC P. C. BOARD****PL 23206596 Rev K**PREPARED BY
T. NEALSHEET NO.
4

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
1	X				X	23506605	SCHEMATIC , SHEET #2	
2		X			X	23506605	SCHEMATIC , SHEET #3	
3			X		X	23506605	SCHEMATIC , SHEET #4	
4	-	1	1	1	CR20	1N914	DIODE , 100V , 100mA	
5	1	1	1	1		24406591	P. C. BOARD	
6	-	1	-	-	CR2	5082-4855-HLMP-3001	DIODE , LED , RED	
7	-	1	1	1	C21	199D106X902CAI	CAPACITOR , 10uF , 20V	
8	-	5	5	5	C15,16,19,20 ,22	RPE121Z5U104M50	CAPACITOR , .1uF	
9	8	8	8	8	B1-7,9	26640000101	FERRITE BEAD	
10	-	1	1	1	B8	26640000101	FERRITE BEAD	
11	20	20	20	20	C1-14,17,18 ,24,25,28,29	RPE121Z5U104M50	CAPACITOR , .1uF	
12	2	2	2	2	C23,26	199D106X902CA1	CAPACITOR , 10uF , 20V	
13	1	1	1	1	C27	196D476X9020	CAPACITOR , 47uF , 20V	
14	2	2	-	-	CR1, 3	5082-4950-HLMP-3502	DIODE , LED , GREEN	
15	1	-	-	-	CR2	5082-4950-HLMP-3502	DIODE , LED , GREEN	
16	-	2	-	-	CR4,5	5082-4950-HLMP-3502	DIODE , LED , GREEN	
17	19	19	19	19	CR6-18, 21- 24,32,33	1N4007	DIODE , 100V ,1A	
18	8	8	8	8	CR19,25-31	1N914	DIODE , 100V , 100mA	
19	1	1	1	1	JP1	65507-436	HEADER (3 PINS)	
20	4	-	-	-	JP2,3,4,7	65507-436	HEADER (2 PINS)	
21	-	5	5	5	JP2-5,8	65507-436	HEADER (2 PINS)	
22	1	1	1	1	J1	65863-085	CONNECTOR, 40 PIN	
23								
24	2	2	-	-	K1,2	327-21B200	RELAY , 12VDC	
25	-	-	-	1	K2	327-21B200	RELAY, 12VDC	
26	11	11	11	11	R1,4,5,8,9,10 -13,19,24	RC07GF102J	RESISTOR , 1K 1/4W	
27	5	5	5	5	R2,3,6,27,29	RC07GF103J	RESISTOR , 10K 1/4W	
28	2	2	2	2	R23,25	RC07GF104J	RESISTOR , 100K , 1/4W	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
LOGIC P. C. BOARD

PL 23206596 Rev K

PREPARED BY
T. NEAL

SHEET NO.
5

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
29	1	1	1	1	R26	RC07GF202J	RESISTOR , 2K 1/4W	
30	-	1	1	1	R42	RC07GF102J	RESISTOR , 1K 1/4W	
31	-	1	1	1	R7	RC07GF184J	RESISTOR , 180K 1/4W	
32	1	1	-	-	S1	21606599	SWITCH , SPDT	
33								
34	2	2	2	2	U1,4	ULN2004	I. C. SEVEN SEGMENT HIGH CURRENT DRIVER	
35	2	2	2	2	U2,3	LM311	I. C. COMPARATOR	
36								
37	3	5	-	-		44F5289	SPACER , LED , 1/4"	
38	5	-	-	-	JP1,2,3,4,7	15-38-1024	PIN JUMPER	
39								
40	2	4	4	4		C8408-026	IC SOCKET , 8 PIN	
41	4	4	2	3		CA16CS2-TSD	IC SOCKET , 16 PIN	
42	-	6	6	6	JP1-5,8	15-38-1024	PIN JUMPER	
43	-	4	4	4	R14,16,18,22	RC07GF103J	RESISTOR , 10K 1/4W	
44	-	1	1	1	R15	RC07GF302J	RESISTOR , 3K 1/4W	
45	-	3	3	3	R17,40,41	RC07GF202J	RESISTOR , 2K 1/4W	
46	-	1	1	1	R20	RC07GF105J	RESISTOR , 1M 1/4W	
47	-	1	1	1	R21	RC07GF102J	RESISTOR , 1K 1/4W	
48	-	1	1	1	R30	RC07GF684J	RESISTOR , 680K , 1/4W	
49								
50	-	1	1	1	U5	LM358	I. C. DUAL OP-AMP	
51	-	1	1	1	U6	555	I. C. TIMER	
52	-	-	-	2			BUSS WIRE, 22 AWG	
53	-	-	-	2			TEFLON SLEEVE, 22 AWG	
54								
55								
56								

JOB NO.	NEXT ASSY.	USED ON	REF. DES.
	23205520		

ASSY	DESCRIPTION
501	NTSC SYSTEMS: ALL SYSTEMS PRIOR TO 07/93 RIGHT ANGLE POTS.
502	ALL 38.9MHz I.F. SYSTEMS (NON NTSC) RIGHT ANGLE POTS
503	44MHz I.F. (M/N) FLAT MTG. POTS
504	36MHz I.F. (B/G) FLAT MTG. POTS.
505	44 MHz I.F. (B/G), FLAT MTG. POTS, +15VDC INPUT.
506	36MHz I.F. (B/G), FLAT MTG. POTS, +15VDC INPUT.

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

ASSEMBLY: IF PRECORRECTOR PCB

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL23207637-503	O
PREPARED BY C, MOORE	DATE 4/07/93	APPROVED BY DATE
CHECKED BY M. BRICKER	DATE 4/08/93	SHEET 1 OF 4

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
		SEE VOIDED "REV:K" FOR PREVIOUS REVISION DESCRIPTIONS.	6/97	
2848	L	CHANGES TO R1 ON -501 & -503 ASSY'S	MTS 6/97	6/97 MB
3008	M	CHANGES TO ITEMS 4,14, & 16	1/98 hcc	1/98 MB
3223	N	CHANGES TO ITEMS 18, 69, 86, & 90	9/01/98 JJC	
	O	ADDED -505 & -506 ASSEMBLY VERSION, ECN 3319 JJC	MTS 10/23/98	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
IF PRECORRECTOR PCB

PL23207637-503 Rev 0

PREPARED BY

CSM

SHEET NO

2

QUANTITY REQUIRED					REFERENCE	PART OR		DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER			
1						23507636		SCHEMATIC	
3			1			MSA0485		AMPLIFIER (SPIDER)	
			2		C37,C40			CAPACITOR: 6-60pF, 250	
5					C1, 4, 31	DM15-102J			
6			12		19, 20, 24-27, 29,	CK05BX103J		0.01Uf	
8			7		14, 15, 28, 33			10uF 35V TANT	
9									
			10		C6, 7, 10, 18,21-23	CK06BX104K			
11									
12					C13	50T-1T			
13			1			9304		4-40pF 250V	
			2		C35, 36			6-60pF, 250V	
15					C38, 39	DM10-181J			
16									
17					C40	DM10-101		▼	
18			2			UVX1E101MPA		CAPACITOR: 100PF, 25V	
			1		C43			CAPACITOR: 10PF	
20					C45,48	DM10-560J			
21			-			DM10-680J		68PF	
			1		C47			250PF	
23					C49	SELECT BY TEST			
24			1			DM10-301J		300PF	
			1		C51			▼ 27PF	
26					C52	DM10-470J			
27									
28					CR1, 2	5082-2800			

ACRODYNE

BLUE BELL, PA

**Title
ASSEMBLY**

PL23207637-503

PREPARED BY

CSM

SHEET NO.

3**QUANTITY REQUIRED REFERENCE PART OR**

29			4		CR3-6	1N4148	DIODE	
30								
31			5		L1, 3, 7, 10, 15	1025-28	COIL: 2.2UH	
32			3		L2, 5, 6	1025-20	1UH	
33			1		L4	1537-36	10UH	
34			6		L8, 9, 11, 12, 16, 17	1025-12	0.47UH	
35			2		L13,14	1025-94	COIL: 0.1UH	
36								
37			3		Q1—3	2N3866	TRANSISTOR	
38								
39			-		R1	3386W-1-101	POTENTIOMETER: 100 OHM	
40			1		R1	3339P-1-101	100 OHM	
41								
42			-		R2-4	3386X-1-102	0-1K OHM	
43			3		R2-4	3386P-1-102	POTENTIOMETER: 1K OHM, FLAT MOUNTING	
44			1		R5	RC42GF181J	RESISTOR: 180 OHM, 2W	
45			1		R6	RC07GF132J	1.3 OHM, 1/4W	
46			1		R7	RC20GF132J	1.3 OHM, 1/2W	
47			1		R8	RC07GF181J	180 OHM, 1/2W	
48			1		R9	RC32GF161J	160 OHM, 1W	
49			1		R10	RC07GF430J	43 OHM, 1/4W	
50			1		R11	RC07GF360J	36 OHM, 1/4W	
51			1		R12	RC42GF271J	270 OHM, 2W	
52			2		R13, 15	RC07GF103J	10K OHM, 1/4W	
53			4		R14,16,21 ,31	RC07GF102J	1K OHM, 1/4W	
54			4		R17-20	RC07GF621J	RESISTOR: 620 OHM, 1/4W	
55			1		R22	RC07GF201J	RESISTOR: 200 OHM, 1/4W @ 5%	
56			1		R23	RC07GF130J	RESISTOR: 13 OHM, 1/4W	
57			-		R24	3386X-1-101	RESISTOR: 0-100 OHM	
58			1		R24	3339P-1-101	POTENTIOMETER: 300 OHM, 1W	
59			1		R25	RC32GF301J	RESISTOR: 300 OHM, 1W	

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
IF PRECORRECTOR PCB

PL23207637-503 Rev 0

PREPARED BY

CSM

SHEET NO.

4

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
60			1		R26	RC07GF100J	10 OHM, 1/4W
61			1		R27	RC07GF511	510 OHM, 1/4W
62			2		R28,37	RC07GF471J	470 OHM, 1/4W
63			2		R29,30	RC07GF302J	3K OHM, 1/4W
64			2		R32,33	RC07GF431J	430 OHM, 1/4W
65			1		R34	RC07GF220J	22 OHM, 1/4W
66			1		R35	RC07GF130J	13 OHM, 1/4W
67			1		R36	RC07GF102J	1K OHM, 1/4W
68			1		R49	RC07GF332J	3.3 OHM, 1/4W
69			1		R50	3386P-1-501	0-500 OHM, 1/4W
70			2		R51,52	RC07GF221J	220 OHM, 1/4W
71			1		R53	RC07GF240J	24 OHM, 1/4W
72			-		R54	RC07GF511J	RESISTOR: 510 OHM, 1/4W
73							
74			1		TB1	1715-721	TERMINAL BLOCK: 2 POSITION
75							
76			1		U1	LM358	IC: OP AMP
77							
78			1		VR1	7805	VOLTAGE REGULATOR
79							
80			1			23405439	PC BOARD
81			1			C8-408-026	8 PIN SOCKET (U10)
82			2			15-38-1024	2 PIN SOCKET
83			3			207CB	HEATSINK (Q1-3)
84			3			10250N	TRANSIPAD (Q1-3)
85			6			65507-436	PINS
86			1				SCREW: #4-40 x 5/16"
87			1				LOCK WASHER #4
88			1				NUT: #4
89			-			9707-BB-0440	THREADED STANDOFF: #4-40 x 1/4"

JOB NO.	NEXT ASSY.	USED ON	REF. DES.	ACRODYNE		ACRODYNE INDUSTRIES 516 TOWNSHIP LINE ROAD BLUE BELL, PA. 19422											
				TITLE ASSEMBLY, VIDEO CORRECTOR PCB													
<table><tr><td>ASSY</td><td>DESCRIPTION</td></tr><tr><td>501</td><td>75 Ω INPUT</td></tr><tr><td>502</td><td>HIGH IMPEDANCE INPUT</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>				ASSY	DESCRIPTION	501	75 Ω INPUT	502	HIGH IMPEDANCE INPUT					CODE IDENT 51336	DOCUMENT NUMBER PL23208695		REVISION J
				ASSY	DESCRIPTION												
				501	75 Ω INPUT												
				502	HIGH IMPEDANCE INPUT												
PREPARED BY Martin Chibirka		DATE 10/7/98	APPROVED BY		DATE												
CHECKED BY		DATE	SHEET 1 OF 5														
ECN	LTR	DESCRIPTION			REVISED BY	APPROVED BY											
	I	SEE ECN															

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
VIDEO CORRECTOR PCB

PL 23208695 Rev J

PREPARED BY

MMC

SHEET NO.

2

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDOR
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
1	X	X				24508696	SCHEMATIC
2							
3							
4							
5	X	X				22708899	DWG. TEST & ALIGNMENT
6							
7							
8							
9	2	2			BR1,2	DB105	DIODE BRIDGE
10							
11	3	3			C8,38,71	SBT	SBT
12	1	1			C46	100B220KC500	CHIP CAP
13	4	4			C12,15,18,21	DM5-100J	CAPACITOR, 10pF, MICA
14	1	1			C105	DM10-150J	CAPACITOR, 15pF, MICA
15	1	1			C41	DM10-180J	CAPACITOR, 18pF, MICA
16	1	1			C53	DM10-220J	CAPACITOR, 22pF, MICA
17	4	4			C24,27,30,33	DM10-470J	CAPACITOR, 47pF, MICA
18	1	1			C69	DM10-111J	CAPACITOR, 110pF, MICA
19	1	1			C5	DM10-221J	CAPACITOR, 220pF, MICA
20	1	1			C100	DM15-102J	CAPACITOR, 1000pF, MICA
21	16	16			C13,14,16, 17,19,20, 22,23,25, 26,28,29, 31,32,34,35	199D105X0035AA1	CAPACITOR, 1uF, 35V, TANT
22	6	6			C11,37,47, 48,102,104	199D106X9035CAI	CAPACITOR, 10uF, 35V, TANT
23	10	10			C42,43,50,51, C1,7,36, 39,44,45	199D226X0035	CAPACITOR, 22uF, 35V, TANT
24							
25	11	11			C3,4,40,52,58,59, 60,66,67,106,107	GRM42- 6X7R104K050BL	CAPACITOR, 0.1uF, 1206
26	4	4			C2,6,10,9	24AA024	CAPACITOR, 6-60pF

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
VIDEO CORRECTOR PCB

PL 23208695 Rev J

PREPARED BY

MMC

SHEET NO.

3

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDOR
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
27	2	2			C101,103	477TTA063	CAPACITOR, 470uF, 35V
28							
29	8	8			CR4,5,6,7 8,9,10,11	5082-2800	DIODE(SHOTTKY)
30	4	4			CR12,13,14,15	STB567	DIODE (STABISTOR)
31	2	2			CR19,20	1N914	DIODE, 100V, 100mA
32	2	2			CR21,22	1N4007	DIODE, 100V, 1A
33							
34	2	2			J1,2	RFB-1111	BNC JACK
35							
36	2	2			L1,2	1025-58	COIL, 39.0 uH
37	1	1			L3	1025-28	COIL, 2.20 uH
38							
39	1	1			Q1	2N3904	TRANSISTOR
40	2	2			Q2,3	MPS2369	TRANSISTOR
41	1	1			Q4	2N3906	TRANSISTOR
42	1	1			Q5	MPS918	TRANSISTOR
43							
44	1	1			R112	3339P-1-102	POTENTIOMETER, 1K
45	1	1			R21	3339P-1-202	POTENTIOMETER, 2K
46	17	17			R40,47,49, 52,54,57, 59,62,64, 67,69,72, 74,77,79, 82,84	3339P-1-103	POTENTIOMETER, 10K
47	1	1			R114	3339P-1-101	POTENTIOMETER, 100 Ohm
48							
49							
50	8	8			R16,38,86 92,93,94, 100,101	RCO7GF100J	RESISTOR, 10 Ohm, 0.25W
51	2	2			R37,106	RCO7GF750J	RESISTOR, 75 Ohm, 0.25W
52	3	3			R30,110,111	RCO7GF101J	RESISTOR, 100 Ohm, 0.25W
53	2	2			R102,104	RCO7GF241J	RESISTOR, 240 Ohm, 0.25W

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
VIDEO CORRECTOR PCB

PL 23208695 Rev J

PREPARED BY

MMC

SHEET NO.

4

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDOR
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
54	4	4			R2,12,33,34	RCO7GF511J	RESISTOR, 510 Ohm, 0.25W
55	1	1			R20	RCO7GF821J	RESISTOR, 820 Ohm, 0.25W
56	15	15			R3,4,5,6, 7,15,22, 29,32,46, 51,56,61, 31,36	RCO7GF102J	RESISTOR, 1K, 0.25W
57	1	1			R113	RCO7GF121J	RESISTOR, 120 Ohm, 0.25W
58	1	1			R115	RCO7GF180J	RESISTOR, 18 Ohm, 0.25W
59	10	10			R10,11,13, 14,18,23, 24,26,27,28	RCO7GF202J	RESISTOR, 2K, 0.25W
60	2	2			R103,105	RCO7GF272J	RESISTOR, 2.7K, 0.25W
61	1	1			R1	RCO7GF392J	RESISTOR, 3.9K, 0.25W
62	4	4			R9,35,66, 81	RCO7GF512J	RESISTOR, 5.1K, 0.25W
63	3	3			R107,76,71	RCO7GF103J	RESISTOR, 10K, 0.25W
64	2	2			R17,19	RCO7GF203J	RESISTOR, 20K, 0.25W
65	1	1			R8	RCO7GF104J	RESISTOR, 100K, 0.25W
66	1	-			R25(-501)	RCO7GF750J	RESISTOR, 75 Ohm, 0.25W
67	-	1			R25(-502)	RCO7GF512J	RESISTOR, 5.1K, 0.25W
68	2	2			RN1,2	4116R-001-103	RESISTOR NETWORK, 10K
69							
70	1	1			S1	ASE-22	SLIDE SWITCH PCB MOUNT
71	1	1			TB1	1715734	TERM. BLOCK 3 POS.
72	1	1			TB1	1715721	TERM. BLOCK 2 POS.
73							
74	1	1			U1	EL2444CN	IC, QUAD OP-AMP, VIDEO
75	2	2			U2,3	CA324	IC, QUAD OP-AMP, LOW FREQ.
76	1	1			U5	74LS221	IC, DUAL MONO STABLE MULTIVIBRATOR
77	1	1			U4	MAX404CPA	IC, SINGLE OP-AMP, VIDEO
78							
79	1	1			VR1	LM-317T	VOLTAGE REGULATOR, TO -220, VARIABLE POSITIVE
80	1	1			VR3	7805	VOLTAGE REGULATOR, TO -220, +5V
81	2	2			VR2,4	LM337	VOLTAGE REGULATOR, TO -220,

ACRODYNE

BLUE BELL, PA

Title
ASSEMBLY
VIDEO CORRECTOR PCB

PL 23208695 Rev J

PREPARED BY

MMC

SHEET NO.

5

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDOR
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
						VARIABLE NEGATIVE	
82	1	1			22408694 REV E	PC BOARD	
83	2	2			CA14CS2-TSD	IC SOCKET, 14 PIN U2,3	
84	A/R	A/R			3M 5413	POLYIMIDE TAPE 0.5 X 0.5	
85	2	2				#4 SCREW, 5/16" LONG	
86	2	2				#4 LOCK WASHER	
87	2	2				#4 NUT	
88	2	2			175-6-240P	THERMAL TRANSFER PAD FOR VR3,VR4	

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ASSY	DESCRIPTION
501	NO FAN. NO TEMP SENSE, 2 LOADS
502	120 VAC FAN W/O TEMPSENSE, 2 LOADS
503	240 VAC FAN W/O TEMP SENSE, 2 LOADS
504	NO FAN, NO TEMP SENSE, 1 LOAD
505	120VAC FAN W/O TEMP, 1 LOAD
506	240 VAC FAN W/O TEMP SENSE 1 LOAD
507	120 VAC FAN, CLOSE ON RISER 55 DEG C TEMPERATURE SENSOR, 2 LOADS
508	24V DC FAN W/O TEMPERATURE SENSOR, 2 LOADS

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

ASSEMBLY, RF LOAD/HEATSINK

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL23208793	E
PREPARED BY HFG	DATE 9/26/94	APPROVED BY M. BRICKER
CHECKED BY WJS	DATE 6/97	SHEET 1 OF 3

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	A	ADDED -504, 505, -506	CMI 5/14/97	MB 6/97
	B	ADDED HARDWARE AND QUNTITIES	HFG 12/09/97	
	C	ADD -507 - 4/98	HCC	
	D	ADD -508 -8/98	JJC	WS 9/3/98
	E	MODIFICATIONS TO ASSEMBLY DRAWING	JJC	

ACRODYNE

BLUE BELL, PA

Title
**ASSEMBLY, RF
LOAD/HEATSINK**

PL23208793 Rev E

PREPARED BY
HFG

SHEET NO.
2

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
1	X	X	X	X	X	21508949	SCHEMATIC	
2								
3	1	1	1	-	J1	UG-58 A/U	"N" CONNECTOR	
4	1	1	1	1	J2	UG-58 A/U	"N" CONNECTOR	
5	2	2	2	1	R2	TCC250-50	RESISTER, 50 OHM, 250 W 3%	
6	2	2	2	2		9727-B-0440	SPACER, 7/16" Lg	
7	1	1	1	1		23308798	DETAIL, RF LOAD HEATSINK	
8	1	1	1	1		23305600	DETAIL, RF LOAD COVER	
9	15	15	15	11			SCREW, PAN HD. #4-40 x ¼" Lg.	
10	8	8	8	8			WASHER, #4 FLAT	
11	16	18	18	12			WASHER, #4 LOCK	
12	-	2	2	-			SCREW, PAN HD, #4-40 x ¾" Lg.	
13	-	-	1	-	BL1	125XR-2281	FAN, 220V	
14	-	1	1	-			CABLE TIE, 1/8"	
15	-	1	-	-	BL1	125XR-2282	FAN, 115V	
16	-	1	1	-	TB1	TSB23012DS	TERMINAL BLOCK, 4 CONNECTOR	
17	-	2	2	-		22307345	DETAIL, FAN MOUNTING BRACKET	
18	-	2	2	-		476042	GUARD, FAN	
19	-	-	-	-	R1	TCC250-50	RESISTOR, 50 OHM, 250W, 3%	
20	-	8	8	-			NUT, HEX, # 6-32	
21	-	6	6	-			SCREW, PAN HD, #6-32 x 5/8" Lg	
22	-	2	2	-			SCREW, PAN HD, #6-32 x 7/8" Lg	
23	-	16	16	-			WASHER, FLAT, #6	
24	-	16	16	-			WASHER, LOCK, #6	
25	-	2	2	-			SCREW, PAN HD, #8-32 x ½" Lg	
26	-	2	2	-			WASHER, FLAT, #8	
27	-	2	2	-			WASHER, LOCK #8	
28	1	1	1	1			TERMINAL, EYE, SOLDER, RIGHT ANGLE	
29	-	-	-	-	TS1	C53CCB135A-120A	THERMAL SENSOR, CLOSE ON RISE, 55 DEGREE C	
30								
31								
32								

ACRODYNE

BLUE BELL, PA

Title
**ASSEMBLY, RF
LOAD/HEATSINK**

PL23208793 Rev E

PREPARED BY
HFG

SHEET NO.
3

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
1	X	X	X		X	21508949	SCHEMATIC	
2								
3	-	-	1	1	J1	UG-58 A/U	"N" CONNECTOR	
4	1	1	1	1	J2	UG-58 A/U	"N" CONNECTOR	
5	1	1	2	2	R2	TCC250-50	RESISTOR, 50 OHM, 250 W 3%	
6	2	2	2	2		9727-B-0440	SPACER, 7/16" Lg	
7	1	1	1	1		23308798	DETAIL, RF LOAD HEATSINK	
8	1	1	1	1		23305600	DETAIL, RF LOAD COVER	
9	11	11	13	15			SCREW, PAN HD. #4-40 x ¼" Lg.	
10	8	8	10	8			WASHER, #4 FLAT	
11	12	12	14	18			WASHER, #4 LOCK	
12	2	2	2	2			SCREW, PAN HD, #4-40 x ¾" Lg.	
13	-	1	-	-	BL1	125XR-2281	FAN, 220V	
14	1	1	1	1			CABLE TIE, 1/8"	
15	1	-	1	-	BL1	125XR-2282	FAN, 115V	
16	1	1	1	1	TB1	TSB23012DS	TERMINAL BLOCK, 4 CONNECTOR	
17	2	2	2	2		22307345	DETAIL, FAN MOUNTING BRACKET	
18	2	2	2	2		476042	GUARD, FAN	
19	-	-	1	1	R1	TCC250-50	RESISTOR, 50 OHM, 250W, 3%	
20	8	8	8	8			NUT, HEX, #6-32	
21	4	4	4	6			SCREW, PAN HD, #6-32 x 5/8" Lg.	
22	4	4	4	2			SCREW, PAN HD. #6-32 x 7/8" Lg.	
23	16	16	16	16			WASHER, FLAT, #6	
24	16	16	16	16			WASHER, LOCK, #6	
25	2	2	2	2			SCREW, PAN HD, #8-32 x ½" Lg.	
26	2	2	2	2			WASHER, FLAT, #8	
27	2	2	2	2			WASHER, LOCK #8	
28	1	1	1	1			TERMINAL, EYE, SOLDER, RIGHT ANGLE	
29	-	-	1	-	TS1	C53CCB135A-120A	THERMAL SENSOR, CLOSE ON RISE, 55 DEGREE C	
30	-	-	-	1	BL1	MD24B1	FAN 24 VDC	
31								
32								

JOB NO.	NEXT ASSY	USED ON	REF DES
		TLH/500S	

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE RD,
BLUE BELL, PA 19422

TITLE
CHASSIS ASSEMBLY DUAL QUADRATURE
PHASE VHF AMPLIFIER DRAWER

CODE IDENT	RE
51336 PL23209084	E

PREPARED BY	DATE	APPROVED	DATE
<i>Amode</i>		<i>h Bm</i>	11-1-95
CHECKED BY	DATE	SHEET 1 OF 4	

501	SINGLE INPUT/TWO OUTPUT
502	SINGLE INPUT/FOUR OUTPUT

3055	E	SEE ECN FOR DWG. CHANGES ONLY	3/93 HFG	B	3/98
2596	D	TBI MOVED	5/23/96 hcc		Bm
	C	A2 WAS 22209858-502			
2494	B	SEE ECN	11/13/95 MTS	11/95 Bm	
	A	ADDED -502 ASSY.	7-95 MTS	11/95 Bm	
ECN	LTR	DESCRIPTION	DATE	NAM	

ACRODYNE
BLUE BELL, PA

TITLE

CHASSIS ASSEMBLY DUAL
QUADRATURE PHASE VHF AMPLIFIER

PL23209084

REV
E

PREPARED BY

CMOORE

SHT. NO.

2

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
1	X				X	22509166	WIRING DIAGRAM
2	X	X				21309574-01	PIN PLACEMENT (ROTARY SWITCH)
3		X				22509679	WIRING DIAGRAM
4	1	1			A1	24209037-502	DUAL IPA PCB
5	1	1			A2	22208858-503	AMP CONTROL BD
6	1	1			A4	22209040-502	SWITCH BD
7	-	2			A5,6	22205501-501	SPLITTER
8							
9							
10	2	2			BL1,2	MD24B1	BLOWER MUFFIN XL 24VDC
11	1	1			BR1	MB2505	BRIDGE RECTIFIER
12	2	2			C1,2	CK06BX104K	CAPACITOR 0.1 μ F
13	-	1			C3	CK06 BX104K	CAPACITOR 0.1 μ F
14	3	3			J1,2,3	21603209	SMA BULKHEAD JACK-JACK
15	1	1			J41	206036-1	CONNECTOR 16 PIN
16	-	2			J4,5	21603209	SMA BULKHEAD JACK-JACK
17	1	1			M1	21607572	METER
18	2	2			TB1,2	TSB230D612	TERMINAL BLOCK 2 POS

ACRODYNE BLUE BELL, PA					TITLE CHASSIS ASSEMBLY DUAL QUADRATURE PHASE VHF AMPLIFIER		PL 23209084	REV E
					PREPARED BY C MOORE		SHT. NO. 3	
ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION	
	501	502	503	504				
19	3	-			W1,2,3	23200165-11-0-11 -12	CABLE ASSY (142-0281-001)	
20	1	1			W4	23200165-43-Q -43-	CABLE ASSY (609-2030, 609-2031)	
21	1PAIR	1PAIR				C300-S-26	CHASSIS SLIDE	
22								
23								
24								
25	1	1				23309074-01	FRONT PANEL	
26	2	2				11402-A-1032	HANDLE 4"	
27	1	1				23305387	BEZEL	
28	1	1					AIR FILTER	
29	1	1				22309101	LEFT CHASSIS SIDE	
30	1	1				22309100	RIGHT CHASSIS SIDE	
31	1	1				24309104	CHASSIS BOTTOM	
32	1	1				24309105	CHASSIS COVER	
33	1	1				24309107	AIR BAFFLE	
34	1	1				24309106	CHASSIS REAR	
35	2	2				2177	GROMMET .50 DIA	
36	1	1				21306441-06	METER FACE	

ACRODYNE
BLUE BELL, PA

TITLE
CHASSIS ASSEMBLY DUAL
QUADRATURE PHASE VHF AMPLIFIER

PL 23209084

REV
E

PREPARED BY
CMOORE

SHT. NO.
4

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
37	2	2				476042	FAN GUARD
38	1	1				P8-70-PL2	KNOB (SD)
39	13	13				66589-2	PIN SOCKET (J41)
40	2	2				22300398-01	METER CLIP
41	1	1				54B	TERMINAL STRIP
42							
43	-	1			W1	23200165- 11-0-11-14 1/2"	CABLE ASSY. A1J3 TO A6 IN.
44	-	1			W2	" 11-0-11-14 1/2"	A1J4 TO A5 IN.
45	-	1			W3	" 11-0-11-7 1/2"	A1J1 TO J3
46	-	1			W5	" 11-0-11-16 1/4"	A5 OUT TO J1
47	-	1			W6	" 11-0-11-16 1/4"	A5 OUT TO J2
48	-	1			W7	" 11-0-11-16 1/4"	A6 OUT TO J4
49	-	1			W8	" 11-0-11-16 1/4"	CABLE ASSY. A6 OUT TO J5;
50							
51							
52							
53							
54							

JOB NO.	NEXT ASSY.	USED ON	REF. DES.
	22210658		

ASSY	DESCRIPTION
-501	FOR STANDARD "M" FREQUENCIES
-502	FOR STANDARD "G, I, D" FREQUENCIES

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ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

ASSEMBLY: IM PLUS STATIC ICPM PCB

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL23210602	G
PREPARED BY MMC	DATE 09/17/96	APPROVED BY DATE
CHECKED BY J. BROOKES	DATE 10/30/96	SHEET 1 OF 7

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	A	ADDED J2, W12 & W13	CP 10/98	
2766	B	ADDED SHEET 13 & ITEM 76	MTS 2/97	MB 2/97
2855, 2899	C	ADD -502, CONVERT PL TO PENDRAFT FROMAT, UPDATE PL PER ECN 2899	HFG 6/97	MB 6/97
2952	D	-501 ONLY-L6/L7 TO 22T, C175 TO 8.2PF - 11/97	HCC	MB 11/97
3038, 3095	E	ADD C176, 177, 178, W1-11 (ITEM 46, 125-132). W13 WAS 6" LG	HFG 3/98	
3240, 3290	F	REVISED ITEM NO #66, #71, #89 PER ECC #3240, 3290	CP 10/98	
3341	G	PL CHANGES, SEE ECN	JJC 3/17/99	

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BLUE BELL, PA

Title
ASSEMBLY:
IM PLUS STATIC ICPM PCB

PL 23210602 RevG

PREPARED BY

MMC

SHEET NO.

2

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
1	X	X			X	24510587	SCHEMATIC
2							
3							
4	5	5			C1,18,79,97,160	CK06BX104K	CAPACITOR 0.1 uF , CERAMIC
5	5	5			C2,19,82,98, 161	CK05BX223K	CAPACITOR 0.022 uF CERAMIC
6	5	-			C3,20 83 99,162	DM10-150J	CAPACITOR 15 pF , MICA
7	-	5			C3,20,83,99, 162	DM10-240J	CAPACITOR 24 pF , MICA
8	20	20			C4,5,6, 10,25,26,31,41,	CK05BX103K	CAPACITOR 0.01 uF, CERAMIC
9					87,88,91,95, 102,103, 106		
10					110,165, 166,169,173		
11	32	32			C7,8,9,13,22,24. 34,36,38,39	RPE121Z5U104M50	CAPACITOR 0.01 uF , RPE
12					40,59,65,69,86,9 2,93,94,101		
13					107,108,109, 113,118,141,		
14					147,149,156, 164,170,171,		
15					172		
16	20	20			C11,16,17,32,33, 57,62,63,73,96, 111,116	199D105X0035AA1	CAPACITOR 1 uF, 35v, TANT
17					73,96,139,144,1 45, 154,159,202		
18					204,206,		
19	17	17			C12,21,23,35, 37,58,64,68	100B102MCA50X	CAPACITOR 1000pF , CHIP
20					85,100,112,117, 140,146,148		
21					155,163		
22	34	34			C14,15,27,28,	PCC471-BCT-ND	CAPACITOR 470 pF, CHIP, A CASE

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BLUE BELL, PA

Title
ASSEMBLY:
IM PLUS STATIC ICPM PCB

PL 23210602 RevG

PREPARED BY

MMC

SHEET NO.

3

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
					29,30,44,45,46		
23					47,60,61,66,67,70,71,89,90		
24					104,105,114,115,127,128		
25					142,143,150,151,152,153		
26					157,158,167,168		
27							
28	6	-			C42,43,119,120,124,125,	100B2R7CCA500 CAPACITOR, 2.7pF CHIP	
29	-	2			C52,132	100B2R7CCA500 CAPACITOR, 2.7pF CHIP	
30	4	-			C48,56,122,129	100B680KC200 CAPACITOR, 68pF CHIP	
31	-	5			C48,49,56,122,129	100B151KCA300 CAPACITOR, 150pF CHIP	
32	5	-			C49,72,84,123,136	100B151KCA300 CAPACITOR, 150pF CHIP	
33	4	-			C50,53,130,133	100B120KC50 CAPACITOR, 12pF CHIP	
34	-	4			C50,53,130,133	100B220KCA500X CAPACITOR, 22pF CHIP	
35	2	-			C121,126	100B220KCA500X CAPACITOR, 22pF CHIP	
36	-	2			C121,126	100B390KCA500X CAPACITOR, 39pF CHIP	
37	4	-			C51,52,131,132	100B2R0CC500 CAPACITOR, 2.0pF CHIP	
38	-	2			C76,124	100B2R0CC500 CAPACITOR, 2.0pF CHIP	
39	-	2			C51,131	100B2R2CCA500 CAPACITOR, 2.2pF CHIP	
40	1	-			C76	100B2R2CCA500 CAPACITOR, 2.2pF CHIP	
41	8	8			C54,55,80,81,134,135	24AA021 CAPACITOR, VARIABLE	
42					137,138		
43	-	2			C72,84	100B301KCA200X CAPACITOR, 300pF CHIP	
44	2	-			C72,74,78	100B820KCA500X CAPACITOR, 82pF CHIP	
45	2	2			C75,77	100B470KC500 CAPACITOR, 47pF CHIP	
46	3	3			C176,177,178	100B100JP500X CAPACITOR, 10pF CHIP	
47	-	2			C123,136	100B221KCA200X CAPACITOR, 220pF CHIP	
48	1	1			C174	24AA020 CAPACITOR, 2-6pF TRIMMER	

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BLUE BELL, PA

Title
ASSEMBLY:
IM PLUS STATIC ICPM PCB

PL 23210602 RevG

PREPARED BY

MMC

SHEET NO.

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QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER	
49	1	-			C175	100B8R2KP500X	CAPACITOR, 8.2pF CHIP
50	-	1			C175	100B150KC500X	CAPACITOR, 15pF CHIP
51	1	1			C201	21606582	CAPACITOR, 100uF, 50V, ELECTROLYTIC
52	3	3			C203,205,207	199D226X0035	CAPACITOR, 22uF, 35V, TANT
53							
54	4	4			D201,202,203, 204	IN4007	DIODE
55	17	17			F1-17	2664000101	FERRITE BEAD
56							
57							
58	3	3			J1,3,6	RFB-1111	JACK, BNC
59	1	1			J2	31-5329	CONNECTOR, BNC, PCB, AMPHENOL
60	1	1			J7	1715721	TERMINAL BLOCK, 2 POSITION
61							
62	5	-			L1,2,8,9,14	1025-16	COIL, 0.68 uH
63	1	1			L3	1025-10	COIL, 0.39 uH
64	-	5			L1,2,8,9,14	1025-20	COIL, 1.0 uH
65	4	-			L4,5,11,13	11300530-22-149-0	COIL, 14T 22ENAM T37-0
66	-	2			L4,5	11300530-28-179-0	COIL, 14T22ENAM T37-0
67	2	-			L6,7	1300530-24-229-0	COIL, 22T 24ENAM T37-0
68	-	2			L6,7	11300530-26-269-0	COIL, 26T 26ENAM T37-0
69	2	-			L10,12	1300530-26-269-0	COIL, 26T 26ENAM T37-0
70	-	2			L10,12	11300530-26-238-0	COIL, 23T 26ENAM T37-0
71	-	2			L11,13	11300530-28-169-0	COIL, 14T22ENAM T37-0
72	1	1			L15	11300530-30-23A-0	COIL, 23T 30ENAM T25-10
73	1	1			L16	1025-24	COIL, 1.50 uH
74	3	3			L17,19,20	1025-26	COIL, 1.80 uH
75	1	1			L118	1025-28	COIL, 2.20 uH
76							
77	4	4			M1-4	SBL-1X	MIXER, PCB MOUNT
78							
79	5	5			R1,25,73,91, 127	3386P-1-102	POTENTIOMETER, 1K POT SQ
80	7	7			R9,39,60,67, 110,113,139	3339P-1-500	POTENTIOMETER, 50 POT ROUND

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BLUE BELL, PA

Title
ASSEMBLY:
IM PLUS STATIC ICPM PCB

PL 23210602 RevG

PREPARED BY

MMC

SHEET NO.

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QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
81								
82	12	12			R2,24,26,42,49,5 1,55,68,111	RC07GF680J	RESISTOR, 68 OHM, .25 W	
83					120,121,124			
84	16	16			R3,27,44,47,50,5 3,54,58,59	RC07GF101J	RESISTOR, 100 OHM, .25 W	
85					71,72,114,115,1 22,125,126			
86								
87	11	11			R4,12,19,28,37,7 4,81,93,100	RC076F240J	RESISTOR, 24Ω, .25W	
88					128,137			
89	4	4			R5,75,89,94	RC07GF391J	RESISTOR, 390 OHM, .25 W	
90	7	7			R6,15,30,76,95,1 02,130	RC07GF201J	RESISTOR, 200 OHM, 25 W	
91	15	15			R7,8,13,31,34, 41,77,78,84	RC07GF751J	RESISTOR, 750 OHM, .25 W	
92					96,97,103,131,1 34,141			
93								
94	17	17			R10,11,21,22, 35,36,52,61,62,	RC07GF510J	RESISTOR, 51 OHM, .25 W	
95					79,80,98,99, 117,118,135			
96					136			
97	5	5			R14,38,82,101,1 38	RC07GF302J	RESISTOR, 3K OHM, .25 W	
98	1	1			R16	RC07GF112J	RESISTOR, 1100 OHM, .25 W	
99	10	10			R17,18,43,45, 87,88,104,	RC07GF241J	RESISTOR, 240 OHM, .25 W	
100					105,142,143			
101	3	3			R20,106,123	RC07GF221J	RESISTOR, 220 OHM, .25 W	
102	2	2			R23,83	RC07GF181J	RESISTOR, 180 OHM, .25 W	
103	2	2			R29,129	RC07GF431J	RESISTOR, 430 OHM, .25 W	
104	12	12			R32,33,56,57,	RC07GF360J	RESISTOR, 36 OHM, .25 W	

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BLUE BELL, PA

Title
ASSEMBLY:
IM PLUS STATIC ICPM PCB

PL 23210602 RevG

PREPARED BY

MMC

SHEET NO.

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QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
					65,66,108,109		
105					112,113,132, 133		
106	2	2			R40,140	RC07GF161J	RESISTOR, 160 OHM, .25 W
107	5	5			R46,63,69,85, 90	RC07GF121J	RESISTOR, 120 OHM, .25 W
108	5	5			R48,64,70,86, 92	RC07GF750J	RESISTOR, 75 OHM, .25 W
109	1	1			R107	RCO7GF620J	RESISTOR, 62 OHM, .25 W
110	1	1			R119	RC07GF151J	RESISTOR, 150 OHM, .25 W
111							
112	5	5			S1,3,7,8,12	21606599	PCB SWITCH, SP3T
113	7	7			S2,4,5,6,9,10, 11	ASE-22	PCB SWITCH, SLIDE
114							
115	5	5			T1-5	458DS-1014-P3	TRANSFERMER, DIP 6, SURFACE MOUNT
116							
117	10	10			U1,2,4,5,13,14,1 6,17,25,26	TL592	IC (NO SOCKET)
118							
119	17	17			U3,6-12,15,18- 24,27	NE5205	IC (NO SOCKET)
120							
121	1	1			U201	7812	VOLTAGE REGULATOR, 12V
122	1	1			U202	7815	VOLTAGE REGULATOR, 15V
123	1	1			U203	7806	VOLTAGE REGULATOR, 6V
124							
125	2	2			W1,3	23200165-5-W-5-5.25	COAX CABLE, 50 OHM
126	1	1			W2	23200165-5-W-5-8	COAX CABLE, 50 OHM
127	2	2			W4,9	23200165-5-W-5-6.25	COAX CABLE, 50 OHM
128	1	1			W5	23200165-5-W-5-9	COAX CABLE, 50 OHM
129	1	1			W6	23200165-5-W-5-7.25	COAX CABLE, 50 OHM
130	1	1			W7	23200165-5-W-5-8.5	COAX CABLE, 50 OHM
131	2	2			W8,11	23200165-5-W-5-5.50	COAX CABLE, 50 OHM
132	1	1			W10	23200165-5-W-5-10.5	COAX CABLE, 50 OHM
133	1	1			W12	23200165-41-L-5-20	CABLE ASSEMBLY
134	1	1			W13	23200165-35-L-5-10	CABLE ASSEMBLY

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BLUE BELL, PA

Title
ASSEMBLY:
IM PLUS STATIC ICPM PCB

PL 23210602 RevG

PREPARED BY

MMC

SHEET NO.

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QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
135								
136	6	6				PFC2-632-40	SCREW, CAPTIVE, # 6-32	
137	1	1				22310662	PLATE, HEATSINK	
138	1	1				22310667	BRACKET, CONNECTOR	
139	10	10					SCREW, PAN HD, #4 - 40 X ¼" LG.	
140	7	7					WASHER, FLAT. #4	
141	10	10					WASHER, LOCK #4	
142								
143	1	1					TAK PAK 444 ADHESIVE	
144	1	1				23410601	PC BOARD	

JOB NO.	NEXT ASSY.	USED ON	REF. DES.

ASSY	DESCRIPTION
501	+24VDC INPUT
502	+15VDC INPUT

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ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE
**PCB ASSEMBLY: AURAL PILOT CORRECTOR AND
AURAL LEVELING CIRCUIT**

CODE IDENT 51336	DOCUMENT NUMBER PL23211632-501	REVISION D
PREPARED BY MMC	DATE 12/97	APPROVED BY DATE
CHECKED BY	DATE	SHEET 1 OF 5

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
3129	-	THIS ECN IN EFFECT WHEN PCB 23411633 REV - IS USED	WB 5/5/98	
3127	A	SWITCH S4 WAS 21606599	WB 5/5/98	CSM
	B	PARTS LIST CORRECTIONS, AND IMPROVED PCB ARTWORK	WB 6/6/98	
3208	C	W3'S LENGTH WAS 16	JJC 10/06/98	
	D	ADD 502 VERSION, (DELETE R72,R73,R74,R75) REPLACE WITH BUSSWIRE.	KH 10/13/98	

ACRODYNE BLUE BELL, PA	Title PCB ASSEMBLY: AURAL PILOT CORRECTOR & AURAL LEVELING CIRCUIT		PL 23211632-501 REV D	
	PREPARED BY MMC		SHEET NO. 2	

REFERENCE		DES.	PART OR IDENTIFYING NUMBER	DESCRIPTION
ITEM	QTY			
X	X		22511634	SCHEMATIC, AURAL PILOT CORRECTOR AND AURAL LEVELING CIRCUIT
1	15	B1,B2,B3,B4,B5,B6,B7,B8, B9,B10,B11,B12,B13,B14, B15	26640001014	FERRITE BEAD
2	2	C39,C60	SBT	
3	5	C30,C33,C48,C51,C85	100B2R7CCA500	CHIP CAP. 2.7 PF
4	1	C6	100B3R3CCA500	CHIP CAP. 3.3 PF
5	2	C13,C10	100B6R8CC500X	CHIP CAP. 6.8 PF
6	4	C26,C27,C44,C45	100B120KC50	CHIP CAP. 12 PF
7	2	C58,C80	DM10-150J	CAP, 15 PF
8	2	C7,C5	100B330KCA500X	CHIP CAP. 33 PF
9	2	C84,C86	100B470KC500	CHIP CAP. 47 PF
10	8	C11,C12,C36,C37,C38,C54, C55,C59	100B680KC200	CHIP CAP. 68 PF
11	2	C93,C92	100B101MC500	CHIP CAP. 100 PF
12	6	C125,C132,C133, C134,C136,C137	GRM42-6X7R102K050BL	CHIP CAP. 0.001 UF
13	2	C79,C57	CKO5BX223K	CAP. CERAMIC .022 UF
14	39	C2,C15,C19,C24,C25,C42, C43,C56,C62,C63,C64,C65, C68,C69, C70,C71,C73,C77, C78,C82,C83,C89,C94,C97, C98,C99,C100,C103,C104, C118,C121,C122,C123,C124, C126,C128,C129,C131,C135	GRM42-6X7R104K050BL	CHIP CAP 0.1 UF
15	26	C3,C4,C16,C17,C20,C21, C28,C29,C34,C35,C46,C47, C52,C53,C66,C67,C74,C75, C87,C88,C95,C96,C105, C106,C107,C108	21CC647	CHIP CAP.A CASE 470 PF
16	18	C1,C14,C18,C22,C23,C40, C41,C61,C72,C76,C81,C101, C102,C109,C111,C113,C115,	199D105X0035AA1	CAP 1 UF

ACRODYNE BLUE BELL, PA	Title PCB ASSEMBLY: AURAL PILOT CORRECTOR & AURAL LEVELING CIRCUIT	PL 23211632-501 REV D	
		PREPARED BY MMC	SHEET NO. 3

REFERENCE		PART OR IDENTIFYING NUMBER	DESCRIPTION
ITEM	QTY DES.		
		C119	
17	2	C120,C130	199D475X0035CAI CAP 4.7 UF
18	4	C110,C112,C114,C116	199D226X0035 CAP 22 UF
19	8	C8,C9,C31,C32,C49,C50, C90,C91	24AA021 CAP VAR
20	1	C127	515D227M025BB6A CAP 220 UF
21	1	C117	TLB1H102M CAP 1000 UF
22	9	CR1,CR2,CR3,CR4,CR5,CR6, CR7,CR8,CR9	1N4007 DIODE
23	1	LD2	35BL504 LED (RED)
24	1	LD1	35BL505 LED (GREEN)
25	1	LD3	35BL506 LED (YELLOW)
26	4	L3,L4,L5,L6	11300530-24-149-0 COIL 14T
27	2	L1,L2	11300530-26-209-0 COIL 20T
28	2	L10,L11	11300530-26-239-0 COIL 23T
29	2	L7,L9	1025-16 COIL 0.68 UH
30	2	L8,L12	1025-24 COIL 1.50 UH
31	3	J3,J4,J9	RFB-1113 BNC JACK
32	3	TP-A. SET1,TP-A. SENSE1, TP-A. AGCT1	65507-436 ONE PIN HEADER
33	4	ML1,ML2,ML3,ML4	SCM - 2 MIXER PCB SURFACE MOUNT
34	1	Q1	2N3906 TRANSISTOR
35	5	R10,R33,R41,R60,R111	3339P-1-500 POTENTIOMETER 50
36	3	R16,R43,R81	3386P-1-102 POTENTIOMETER 1K
37	1	R65	RC07GF220J RES .25W 22
38	5	R19,R26,R49,R58,R106	RC07GF240J RES .25W 24
39	1	R71	RC07GF270J RES .25W 27
40	10	R8,R9,R28,R29,R37,R38, R53,R54,R109,R110	RC07GF360J RES .25W 36
41	1	R13	RC07GF390J RES .25W 39
42	1	R42	RC07GF430J RES .25W 43
43	4	R24,R25,R56,R57	RC07GF510J RES .25W 51
44	1	R68	RC07GF560J RES .25W 56
45	3	R4,R7,R99	RC07GF620J RES .25W 62

ACRODYNE BLUE BELL, PA	Title PCB ASSEMBLY: AURAL PILOT CORRECTOR & AURAL LEVELING CIRCUIT		PL 23211632-501 REV D	
	PREPARED BY MMC		SHEET NO. 4	

REFERENCE		DES.	PART OR IDENTIFYING NUMBER	DESCRIPTION
ITEM	QTY			
46	1	R46	RC07GF680J	RES .25W 68
47	3	R2,R36,R40	RC07GF750J	RES .25W 75
48	2	R1,R48	RC07GF101J	RES .25W 100
49	2	R44,R45	RC07GF151J	RES .25W 150
50	2	R14,R15	RC07GF161J	RES .25W 160
51	6	R3,R5,R21,R47,R51,R67	RC07GF201J	RES .25W 200
52	5	R6,R70,R87,R107,R108	RC07GF221J	RES .25W 220
53	7	R30,R32,R35,R61,R63,R64,	RC07GF241J	RES .25W 240
		R66		
54	2	R103,R115	RC07GF301J	RES .25W 300
55	4	R20,R34,R39,R50	RC07GF361J	RES .25W 360
56	1	R95	RC07GF391J	RES .25W 390
57	1	R101	RC07GF681J	RES .25W 680
58	6	R22,R23,R52,R55,R85,R98	RC07GF751J	RES .25W 750
59	8	R11,R12,R17,R18,R31,R62,	RC07GF102J	RES .25W 1K
		R79,R86		
60	1	R105	RC07GF132J	RES .25W 1.3K
61	1	R102	RC07GF152J	RES .25W 1.5K
62	6	R76,R77,R84,R89,R100,R116	RC07GF202J	RES .25W 2K
63	4	R27,R59,R69,R94	RC07GF302J	RES .25W 3K
64	1	R97	RC07GF752J	RES .25W 7.5K
65	2	R104,R88	RC07GF393J	RES .25W 39K
66	1	R80	RC07GF753J	RES .25W 75K
67	1	R90	RC07GF913J	RES .25W 91K
68	3	R82,R92,R93	RC07GF154J	RES .25W 150K
69	1	R96	RC20GF471J	RES .5W 470
70	3	R78,R83,R91	RC20GF621J	RES .5W 620
71	2	R112,R113	RC42GF100J	RES 2W 10
72	4	R72,R73,R74,R75	RC42GF470J	RES 2W 47
73	1	S3	ASE-22	PCB SLIDE SWITCH
74	2	S1,S2	21606599	PCB SWITCH SP3T
75	3	T1,T2,T3	TKS2518CT	TRANSFORMER PCB
76	2	TB1	1715721	TERM. BLK 2 POS
77	1	U18	LM339	IC QUAD COMPARATOR

ACRODYNE BLUE BELL, PA	Title PCB ASSEMBLY: AURAL PILOT CORRECTOR & AURAL LEVELING CIRCUIT		PL 23211632-501 REV D	
	PREPARED BY MMC		SHEET NO. 5	

REFERENCE		DES.	PART OR IDENTIFYING NUMBER	DESCRIPTION
ITEM	QTY			
78	1	U20	LM358	IC DUAL OP AMP 8 PIN
79	14	U1,U2,U3,U4,U5,U6,U7,U10, U11,U14,U15,U16,U17,U21	NE5205AN	IC (NO SOCKET)
80	1	AF1	AF002N2-32	GaAs ATTENUATOR,SOT-143
81	4	U8,U9,U12,U13	NE592N8	IC
82	1	U19	ULN2004A	IC HEX INVERTER
83	2	VR2,VR4	7806	VOLTAGE REG 6V
84	3	VR1,VR3,VR5	7812	VOLTAGE REG 12V
85	1	VR6	NJM78L06A	VOLTAGE REG, TO-92
86	1	W3	23200165-5-L-41-18	RG-316 COAX CABLE 50 OHM, ASSEMBLY
87	9		PFC2-632-40	CAPTIVE SCREW INSERT
88	1	PWB	23411633	PRINTED WIRING BOARD
89	2	W1, W4	23200165-5-L-41-16	RG-316 COAX CABLE 50 OHM, ASSEMBLY
90	1	W2	23200165-5-W-5-7.125	RG-178 COAX CABLE 50 OHM, ASSEMBLY
91	1	W5	23200165-5-W-5-3.375	RG-178 COAX CABLE 50 OHM, ASSEMBLY
92	1	W6	23200165-5-W-5-6.375	RG-178 COAX CABLE 50 OHM, ASSEMBLY
93	1	-	21311670-01	HEATSINK PLATE
94	1	R114	RC07GF123J	RESISTOR .25W 12K
95	1	XU18	CA14TSD	IC SOCKET, 14 PIN
96	7		#4 X 5/16" LG RD HD SCREW	<VR1-5 & HEATSINK>
97	2		#4 FLAT WASHER	< HEATSINK>
98	7		#4 LOCK WASHER	<VR1-5 & HEATSINK>
99	1		#4 NUT	<VR5>
100	5		175-6-240P	THERMAL TRANSFER PAD WAKEFIELD <VR1,VR2,VR3,VR4,VR5>
101	1	XU20	C8414-02	IC SOCKET, 8 PIN
102	1	XU19	CA16TSD	IC SOCKET, 16 PIN
103	1	S4	21607023	PCB SWITCH SPDT
104	4			#18 GAUGE BUSS W/SLEEVE, LENGTH AS REQUIRED

JOB NO.	NEXT ASSY	USED ON	REF DES
	24103876	LPTV	A3
	23203934		A1

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA 19422

TITLE
ASSEMBLY,
UPCONVERTER 1WATT AMP CH 7-13

CODE IDENT

51336

PL 24203930

REV

C

PREPARED BY
C MOORE

DATE
10/1/86

APPROVED
T HOLICK

DATE
12-4-86

CHECKED BY
BROOKES

DATE

SHEET 1 OF 5

VERSION	DESCRIPTION
-501	VHF 174-216MHZ (CH 7-13)
-502	VHF 174-230MHZ (CH E5-E12)

2544	C	ADDED -502 ASSY. 12-15-95 MTS		Brookes B
—	B	ADDED RESISTOR VALUES 5.6Ω + 360Ω	4/20/88	DE
1340	A	ADDED "E" NUMBERS TO ASSY. CSM	10/21/87	MB
ECN	LTR	DESCRIPTION	DATE	NAME

Aerodyne Industries
A Unit of Whittaker Corporation
516 Township Line Road
Blue Bell, Pennsylvania 19422

TITLE

ASSEMBLY 1 WATT AMP
P.C. BD

PL 24203930

PREPARED BY
CMOORE

PAGE NO
2

ITEM NO.	QTY REQ			REF DES	PART OR IDENTIFYING NO.	MANUFACTURER	DESCRIPTION	MATERIAL SPECIFICATION
	501	502						
1	X			X	23503928		SCHEMATIC	
2		X			22509917		SCHEMATIC	
3								
4	1	—		C1	100B270KCL500X ATC		CAPACITOR 27 pF CHIP	
5	2	—		C2,15	100B3R3CC500X ATC		3.3 pF CHIP	
6	2	—		C3,16	100B100KCL500X ATC		10 pF CHIP	
7	2	2		C4,14	CK05BX223K		.022 μ F	
8	8	8		C5,11-13,23,25,26,34	100B471KCL200XA ATC		470 pF CHIP	
9								
10	4	4		C6,17,20,32	100B470KCL500X ATC		47 pF CHIP	
11	2	2		C7,18	100B150KCL500X ATC		15 pF CHIP	
12	3	3		C8,10,19	100B680KCL200X ATC		68 pF CHIP	
13	1	1		C9	100B301KCL200X ATC		300 pF CHIP	
14	4	4		C21,24,27,29	CK05BX103K		.01 μ F	
15	3	3		C22,28,33	199D225X0035 BAI		2.2 μ F TANTALUM	
16	1	—		C30	100B220KCL200X ATC		22 pF CHIP	
17	1	1		C31	100B330KCL500X ATC		33 pF CHIP	

Microdyne Industries
A Unit of Whittaker Corporation
516 Township Line Road
Blue Bell, Pennsylvania 19422

TITLE

ASSY 1 WATT AMP

P.C. BD

PL 24203930

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PAGE N
3

ITEM NO.	QTY REQ			REF DES	PART OR IDENTIFYING NO.	MANUFACTURER	DESCRIPTION	MATE SPECIF
	501	502						
19	-	1		C2	100B3R3CC500X		CAPACITOR, 3.3PF CHIP	
20	-	1		C3	100B100KC500X		CAPACITOR, 10PF CHIP	
21	-	1		C15	100B120KC50		CAPACITOR, 12PF CHIP	
22	-	1		C16	100B1R0CC500X		CAPACITOR, 1.0PF CHIP	
23	2	2		CRI, 2	1N82AG		MIXER DIODE	
24	-	1		C30	100B150KC200X		CAPACITOR, 15PF CHIP	
25	-	1		L1	1537-02		COIL .22μH	
26	2	-		L1,2	1025-94	DELEVEN	COIL 0.1μH	
27	2	2		L3,5	1537-00		COIL 0.15μH	
28	1	1		L4	VK200-20/4B		CHOKE	
29	1	1		L6	102540		COIL 6.8μH	
30								
31								
32	1	1		Q1	UMIL10	ACRIAN	NPN RF POWER TRANSISTOR	
33	1	1		Q2	2N2905		PNP TRANSISTOR	
34	1	1		Q3	VTV075	ACRIAN	NPN RF POWER TRANSISTOR	
35	-	2		R1,2	RC07GF240J		RESISTOR. 24Ω, 1/4W	

Acrodyne Industries
A Unit of Whittaker Corporation
516 Township Line Road
Blue Bell, Pennsylvania 19322

TITLE

ASSEMBLY 1 WATT AMP

PL 24203930

P.C. BD

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CMOORE

PAGE NO
4

ITEM NO.	QTY REQ			REF DES	PART OR IDENTIFYING NO.	MANUFACTURER	DESCRIPTION	MATE SPECIF
	501	502						
37	1	—		R1	CHP 1/8-100-49R9	F TRW	RESISTOR 49.9 Ω CHIP	
38	1	—		R2	RC05GF360J		36 Ω 1/8W	
39	1	—		R3	RC05GF151J		150 Ω 1/8W	
40	1	1		R4	RC3ZGF681J		680 Ω 1W	
41	1	1		R5	RC07GF820J		82 Ω 1/4W	
42	2	2		R6,7	RC3ZGF130J		13 Ω 1W	
43	1	1		R8	RC07GF431		430 Ω 1/4W	
44	1	1		R9	RC07GF272J		2.7K Ω 1/4W	
45	3	3		R10-12	RC4ZGF100J		10 Ω 2W	
46	2	2		R13, R14	RC07GF102J		1K Ω 1/4W	
47	1	1		R15	RC07GF5R6J		5.6 Ω 1/4W	
48	1	1		R16	RC07GF161J		160 Ω 1/4W	
49	—	2		R18,19	RC07GF271J		RESISTOR, 270 Ω , 1/4W	
50	1	1		RF1	2664000101	FAIR-RITE	FERRITE BEAD	
51	AR	AR					#18 INSUL. BUSS WIRE	
52	—	2		C35, 37	24AA020		TRIMMER CAP, 2-6PF	
53	1	1		W3	23200165-5-H-5-4		INTERSTAGE CABLE ASSY	

ACRODYNE
BLUE BELL, PA

TITLE
ASSEMBLY

PL 24203930

REV
C

UPCONVERTER AMP CH 7-13

PREPARED BY
C. MOORE

SHT. NO.
5

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
55	—	2			C34,36	24AA021	TRIMMER CAP, 3-13 PF
56							
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							

JOB NO.	NEXT ASSY.	USED ON	REF. DES.
	23206106		A1

ASSY	DESCRIPTION
501	PLL STANDARD FREQ TOL SINGLE OUTPUT
502	PLL ± 1000 HZ FREQ TOL SINGLE OUTPUT
503	SAME AS 501 DUAL OUTPUT
504	SAME AS 502 DUAL OUTPUT
505	501 MINUS PCB
506	502 MINUS PCB
507	503 MINUS PCB
508	504 MINUS PCB

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE
VHF HIGHBAND L.O. PC BD

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL24206064	J
PREPARED BY C. MOORE	DATE 9/26/91	APPROVED BY D. HULICK
CHECKED BY	DATE	SHEET 1 OF 7

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	A			
	B			
	C	DELETED R18	22/22/93	B
2042	D	SEE ENC	2/22/93	B
2116	E	SEE ECN SGM	6/16/93	B
2154	F	ADDED 505,506 SGM	6/16/93	B
2574	G	ITEM 23 TO 'SBT' HCC	5/15/96	B
2614	H	ITEM 10, PN 21GC647 →PCC471BGT HCC	8/24/96	B 8/96
2614	H	ITEM 10, PN 21GC647 →PCC471BGT HCC	8/24/96	B 8/96
3270	I	ADDED- 507& 508 ASSY. 2/98 MTS		B 3/98

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BLUE BELL, PA

Title
**VHF HIGHBAND L.O.
PC BD.**

PL 24206064**Rev J**

PREPARED BY

C. MOORE

SHEET NO.

2

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
1	X		X	-	X	23506044	SCHEMATIC CYRSTAL
2		X		X	X	23507429	SCHEMATIC TCXO
3							
4							
5	4	4	4	4	AR1-4	MSA0485	AMPLIFIER (SPIDER)
6							
7	1	1	1	1	C1	100B1R0CC500X	CAPACITOR 1PF CHIP
8	6	6	6	6	C2-5, 11, 15	100B100KC500X	CAPACITOR 10PF CHIP
9	1	1	1	1	C6	100B6R8CC500X	CAPACITOR 6.8 PF CHIP
10	5	5	5	5	C7- 10,16	PCC471BCT	CAPACITOR 470 PF CHIP
11	3	3	3	3	C12,17 ,26	199D106X9035CAI	CAPACITOR 10 uF 35V TANT
12	2	2	2	2	C13,34	24AA021	CAPACITOR VARIABLE
13	1	1	1	1	C18	100B180KC500X	CAPACITOR 18 PF CHIP
14	1	1	1	1	C19	100B101KC50X	CAPACITOR 100 PF CHIP
15							
16	1	1	1	1	C21	199D475X0035CAI	CAPACITOR 4.7 uF 35V TANT
17	2	2	2	2	C22,30	CK05BX102K	CAPACITOR .001 uF
18	2	2	2	2	C23,33	CK05BX103K	CAPACITOR 0.01 uF
19	-	1	-	1	C27	CK05BX102K	CAPACITOR .001 uF
20	3	3	3	3	C24,25 ,36	1990225X0035BAI	CAPACITOR 2.2 uF TANT
21	1	-	1	-	C28	24AA024	CAPACITOR VARIABLE
22	1	-	1	-	C29	DM10-390J	CAPACITOR 39 PF MICA
23	1	1	1	1	C38		CAPACITOR - SBT
24							
25	1	1	1	1	C14	DM5-050J	CAPACITOR 5PF MICA
26	1	1	1	1	C37	199D226X0035	CAPACITOR 22uF 35V
27							
28	1	1	1	1	CR1	DKV6533C	DIODE
29	1	1	1	1	CR2	1N4003	DIODE
30	4	4	4	4	CR5-8	1N4148A	DIODE
31	1	1	1	1	CR4	35BL505	LED (GREEN)

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BLUE BELL, PA

Title
VHF HIGHBAND L.O.
PC BD.

PL 24206064 Rev J

PREPARED BY

C. MOORE

SHEET NO.

3

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
32								
33	4	4	4	4	L2-5	1025-94	COIL 0.1 uH	
34	1	1	1	1	L6	1025-28	COIL 2.2 uH	
35								
36	1	1	1	1	Q1	MRF966	TRANSISTOR	
37	1	1	1	1	Q2	2N2222A	TRANSISTOR	
38	1	1	1	1	Q3	2N2907A	TRANSISTOR	
39	-	1	-	1	Q4	2N2222A	TRANSISTOR	
40	-	-	1	1	R1	RC07GF101J	RESISTOR 100 OHM 1/4W	
41	1	1	1	1	R2	RC07GF511J	RESISTOR 510 OHM 1/4W	
42	1	1	1	1	R3	RC07GF271J	RESISTOR 270 OHM 1/4W	
43	1	1	1	1	R4	RC07GF122J	RESISTOR 1.2K OHM 1/4W	
44	3	3	3	3	R5,7,1 7	RC07GF102J	RESISTOR 1K OHM 1/4W	
45	1	1	1	1	R6	RC07GF104J	RESISTOR 100K OHM 1/4W	
46	1	1	1	1	R8	RC07GF103J	RESISTOR 10K OHM 1/4W	
47	1	1	1	1	R9	RC07GF682J	RESISTOR 6.8K OHM 1/4W	
48	1	1	1	1	R10	RC07GF304J	RESISTOR 300K OHM 1/4W	
49	1	1	1	1	R18	RC07GF103J	RESISTOR 10K OHM 1/4W	
50	1	-	1	-	R13	RC07GF105J	RESISTOR 1M OHM 1/4W	
51	1	-	1	-	R14	RC07GF272J	RESISTOR 2.7K OHM 1/4W	
52	2	2	2	2	R15,20	RC07GF202J	RESISTOR 2K OHM 1/4W	
53	1	1	1	1	R16	RC07GF241J	RESISTOR 240 OHM 1/4W	
54	2	2	2	2	RN1,2	4310R-101-104	100K SIP RESISTOR	
55	-	1	-	1	R24	RC07GF104J	RESISTOR 100K 1/4W	
56	-	1	-	1	R21	RC07GF103J	RESISTOR 10K 1/4W	
57	-	1	-	1	R23	RC07GF102J	RESISTOR 1K 1/4W	
58	2	2	2	2	S1,2	76RSB08S	DIP SWITCH	
59	2	2	2	2	TB1	1715721	TERMINAL BLOCK 4 POS	
60	1	1	1	1	R22	RC07GF393J	RESISTOR 39K 1/4W	
61	1	1	1	1	R19	RC07GF105J	RESISTOR 1MEG OHM 1/4W	
62								
63	1	1	1	1	U2	PB572C	I.C.	NEC
64	1	1	1	1	U3	NE555	I.C.	
65	6	6	6	6	U4,5,8-	MC14526B	I.C.	

BLUE BELL, PA

Title
VHF HIGHBAND L.O.
PC BD.

PL 24206064

Rev J

PREPARED BY

SHEET NO.

C. MOORE

4

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BLUE BELL, PA

Title
**VHF HIGHBAND L.O.
PC BD.**

PL 24206064 Rev J

PREPARED BY

C. MOORE

SHEET NO.

5

QUANTITY REQUIRED				REFERENCE	PART OR		DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
1	X		X	-	X	23506044	SCHEMATIC CYRSTAL	
2		X		X	X	23507429	SCHEMATIC TCXO	
3								
4								
5	4	4	4	4	AR1-4	MSA0485	AMPLIFIER (SPIDER)	
6								
7	1	1	1	1	C1	100B1R0CC500X	CAPACITOR 1PF CHIP	
8	6	6	6	6	C2-5, 11, 15	100B100KC500X	CAPACITOR 10PF CHIP	
9	1	1	1	1	C6	100B6R8CC500X	CAPACITOR 6.8 PF CHIP	
10	5	5	5	5	C7- 10,16	PCC471BCT	CAPACITOR 470 PF CHIP	
11	3	3	3	3	C12,17 ,26	199D106X9035CAI	CAPACITOR 10 uF 35V TANT	
12	2	2	2	2	C13,34	24AA021	CAPACITOR VARIABLE	
13	1	1	1	1	C18	100B180KC500X	CAPACITOR 18 PF CHIP	
14	1	1	1	1	C19	100B101KC50X	CAPACITOR 100 PF CHIP	
15								
16	1	1	1	1	C21	199D475X0035CAI	CAPACITOR 4.7 uF 35V TANT	
17	2	2	2	2	C22,30	CK05BX102K	CAPACITOR .001 uF	
18	2	2	2	2	C23,33	CK05BX103K	CAPACITOR 0.01 uF	
19	-	1	-	1	C27	CK05BX102K	CAPACITOR .001 uF	
20	3	3	3	3	C24,25 ,36	1990225X0035BAI	CAPACITOR 2.2 uF TANT	
21	1	-	1	-	C28	24AA024	CAPACITOR VARIABLE	
22	1	-	1	-	C29	DM10-390J	CAPACITOR 39 PF MICA	
23	1	1	1	1	C38	DM10-361J	CAPACITOR - 360 PF MICA	
24								
25	1	1	1	1	C14	DM5-050J	CAPACITOR 5PF MICA	
26	1	1	1	1	C37	199D226X0035	CAPACITOR 22UF 35V	
27								
28	1	1	1	1	CR1	DKV6533C	DIODE	
29	1	1	1	1	CR2	1N4003	DIODE	
30	4	4	4	4	CR5-8	1N4148A	DIODE	
31	1	1	1	1	CR4	35BL505	LED (GREEN)	

ACRODYNE

BLUE BELL, PA

Title
VHF HIGHBAND L.O.
PC BD.

PL 24206064 Rev J

PREPARED BY

C. MOORE

SHEET NO.

6

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
32								
33	4	4	4	4	L2-5	1025-94	COIL 0.1 uH	
34	1	1	1	1	L6	1025-28	COIL 2.2 uH	
35								
36	1	1	1	1	Q1	MRF966	TRANSISTOR	
37	1	1	1	1	Q2	2N2222A	TRANSISTOR	
38	1	1	1	1	Q3	2N2907A	TRANSISTOR	
39	-	1	-	1	Q4	2N2222A	TRANSISTOR	
40	-	-	1	1	R1	RC07GF101J	RESISTOR 100 OHM 1/4W	
41	1	1	1	1	R2	RC07GF511J	RESISTOR 510 OHM 1/4W	
42	1	1	1	1	R3	RC07GF271J	RESISTOR 270 OHM 1/4W	
43	1	1	1	1	R4	RC07GF122J	RESISTOR 1.2K OHM 1/4W	
44	3	3	3	3	R5,7,1 7	RC07GF102J	RESISTOR 1K OHM 1/4W	
45	1	1	1	1	R6	RC07GF104J	RESISTOR 100K OHM 1/4W	
46	1	1	1	1	R8	RC07GF103J	RESISTOR 10K OHM 1/4W	
47	1	1	1	1	R9	RC07GF682J	RESISTOR 6.8K OHM 1/4W	
48	1	1	1	1	R10	RC07GF304J	RESISTOR 300K OHM 1/4W	
49	1	1	1	1	R18	RC07GF103J	RESISTOR 10K OHM 1/4W	
50	1	-	1	-	R13	RC07GF105J	RESISTOR 1M OHM 1/4W	
51	1	-	1	-	R14	RC07GF272J	RESISTOR 2.7K OHM 1/4W	
52	2	2	2	2	R15,20	RC07GF202J	RESISTOR 2K OHM 1/4W	
53	1	1	1	1	R16	RC07GF241J	RESISTOR 240 OHM 1/4W	
54	2	2	2	2	RN1,2	4310R-101-104	100K SIP RESISTOR	
55	-	1	-	1	R24	RC07GF104J	RESISTOR 100K 1/4W	
56	-	1	-	1	R21	RC07GF103J	RESISTOR 10K 1/4W	
57	-	1	-	1	R23	RC07GF102J	RESISTOR 1K 1/4W	
58	2	2	2	2	S1,2	76RSB08S	DIP SWITCH	
59					TB1	1715721	TERMINAL BLOCK 4 POS	
60	1	1	1	1	R22	RC07GF393J	RESISTOR 39K 1/4W	
61	1	1	1	1	R19	RC07GF105J	RESISTOR 1MEG OHM 1/4W	
62								
63	1	1	1	1	U2	PB572C	I.C.	NEC
64	1	1	1	1	U3	NE555	I.C.	
65	6	6	6	6	U4,5,8-	MC14526B	I.C.	

ACRODYNE

BLUE BELL, PA

Title
**VHF HIGHBAND L.O.
PC BD.**

PL 24206064

Rev J

PREPARED BY

SHEET NO.

C. MOORE

7

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-505	-506	-507	-508	DES.	IDENTIFYING NUMBER		
					11			
66	1	1	1	1	U6	CD4060B	I.C. (MC14060BCP)	
67	1	1	1	1	U7	MC14046B	I.C.	
68	1	1	1	1	VR1	LM117H	VOLTAGE REGULATOR	
69								
70	1	-	1	-	Y1	21606403	8000 KHZ CRYSTAL	
71	-	1	-	1	Y2	252Y0811	TCX0 8000KHz	
72								
73								
74								
75								
76								
77	-	-	-	-		24406065	PC BD	
78	1	1	1	1		C8408-026	I.C. SOCKET 8 PIN (U3)	
79	8	8	8	8		CA16CS2-TSD	I.C. SOCKET 16 PIN	
80						9706-BB-0440	STANDOFF 3/16" LG 4-40 THD	
81								
82								
83								
84								
85								

<table border="1"> <tr> <td>JOB NO.</td> <td>NEXT ASSY.</td> <td>USED ON</td> <td>REF. DES.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				JOB NO.	NEXT ASSY.	USED ON	REF. DES.									ACRODYNE ACRODYNE INDUSTRIES 516 TOWNSHIP LINE ROAD BLUE BELL, PA. 19422			
JOB NO.	NEXT ASSY.	USED ON	REF. DES.																
<table border="1"> <tr> <td>ASSY</td> <td>DESCRIPTION</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>				ASSY	DESCRIPTION					TITLE ASSEMBLY: VHF HIGH BAND LEFT 300 W PA									
ASSY	DESCRIPTION																		
<table border="1"> <tr> <td>CODE IDENT</td> <td>DOCUMENT NUMBER</td> <td>REVISION</td> </tr> <tr> <td>51336</td> <td>PL24209000</td> <td>L</td> </tr> </table>				CODE IDENT	DOCUMENT NUMBER	REVISION	51336	PL24209000	L	<table border="1"> <tr> <td>PREPARED BY HGF</td> <td>DATE 11/15/94</td> <td>APPROVED BY</td> <td>DATE</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> <td colspan="2">SHEET 1 OF 6</td> </tr> </table>		PREPARED BY HGF	DATE 11/15/94	APPROVED BY	DATE	CHECKED BY	DATE	SHEET 1 OF 6	
CODE IDENT	DOCUMENT NUMBER	REVISION																	
51336	PL24209000	L																	
PREPARED BY HGF	DATE 11/15/94	APPROVED BY	DATE																
CHECKED BY	DATE	SHEET 1 OF 6																	

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
2437 2436	A	SEE ECN 2/8/95 MTS	3/95	B
2499	B	ADDED C222. C322	11/13/95	B 11/95
	C	CHANGED ITEM 81 FROM 23309014 M.C.	12/2/95	B
	D	ADDED ITEM 44	12/13/95	B
2538	E	SEE ECN MC	1/15/96	B 1/96
2677	F	ITEM 66 ADJUSTED - 11/96 HCC	11/96	B
2898	G	ITEM 49 P.N. CHANGED - 9/97 HCC	10/97	M.B.
3011 3012	H	SEE ECN PAGE 8 ADDED HERE - 1/98 HCC	02/98	M.B.
3060 3094	I	SEE ECN ADD ITEM 110. 109 WAS 22311681 - 03 HFG 3/31/98	4/8/98	M.B.
3115 3116	J	SEE ECN ADD ITEM 119 DWM 4/24/98		MV
3160 3225	K	CHANGED QUANTITIES OF # S 111,12 JJC 09/09/98	10/16	MV
3292	L	SEE ECN 12/17/98		

ACRODYNE

BLUE BELL, PA

Title
VHF HIGH BAND
LEFT 300 W PA

PL24209000 Rev L

PREPARED BY

HFG

SHEET NO.

2

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501-502	-503	-504	DES.	IDENTIFYING NUMBER		
1	X			X	24509085	SCHEMATIC	
2	X				21709162	CAP PLACEMENT	
3	X				21709162	CAP PLACEMENT	
4							
5	4			B101,102,201 ,301	2664000101	FERRITE BEAD	
6	4			C1,2,3,4	1280-060	CAPACITOR, FEEDTHRU, 1000pF, 25A/2500V	
7	2			C5,6	54-713-001-102P	CAPACITOR, FEEDTHRU, 1000pF, 5A	
8	2			C7,8	100B6R8CCA500X	CAPACITOR, CHIP 6.8pF	
9	3			C101,201,301	24AA021	CAPACITOR, VARIABLE	
10	18			C102,107,114, 117,120,123,202 ,203,206,210, 213,217,302, 303,306,310,313 , 317	100B102MCA50X	CAPACITOR, CHIP, 1000pF	
11							
12							
13	20			C104,105,115, 118,121,124,204 ,205,207,211, 214,218,220,304 ,305,307,311, 314,318,320	RPE121Z5U104M	CAPACITOR, 0.1uF	
14							
15							
16							
17	2			C108,112	TLB1A102	CAPACITOR, 1000uF, 10V, ELECT	
18	4			C109,113,125, 126	25VBSL-470	CAPACITOR, 470uF, 35V	
19	4			C209,216,309, 316	TLB1H102M	CAPACITOR, 1000uF, 50V ELECT	
20	2			C110,111	TLB1J470M	CAPACITOR, 47uF, 50V, ELECT	
21	12			C103,106,116, 122,208,212,215	199D226X0035	CAPACITOR, 22uF, 35V, TANT	

ACRODYNE

BLUE BELL, PA

Title
**VHF HIGH BAND
LEFT 300 W PA**

PL24209000 Rev L

PREPARED BY

HFG

SHEET NO.

3

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
					,219,308,312, 315,319			
22								
23	2				C321,221	199D225X0035BAI	CAPACITOR, 2.2uF, 35V, TANT	
24	2				C222,322	10EN-IT	CAPACITOR, 1000uF, 10V	
25	2				CR101,102	1N4002	DIODE, 100V, 1A	
26	3				F1,2,3	AGC15	FUSE, 15A	
27	2				J1,2	TSM-110-01-T-DV	20 PIN HEADER, SURFACE MOUNT	
28	6				L101,102,201, 202,301,302	11300531-181-5R05	COIL	
29	1				L103	1025-04	COIL, 0.22uH	
30	3				Q1,2,3	SD1485	TRANSISTOR, RF	
31	4				Q201,202,301, 302	BD135	TRANSISTOR	
32	2				Q101,102	MJ371	TRANSISTOR	
33								
34	6				R9-13,20	3339P-1-501	POTENTIOMETER, 500 POT	
35	2				R110,115	3329P-1-101	POTENTIOMETER, 100 POT	
36	2				R210,310	3339P-1-502	POTENTIOMETER, 5K POT	
37	1				R1	31-1007	RESISTOR, FLANGE, 100 OHM, 40 W	
38	1				R2	31-1003-100	RESISTOR FLANGE, 100 OHM, 250 W	
39	6				R3-8	RC07GF101J	RESISTOR, 100 OHM, .25W	
40	12				R101,102,103, 104,201,202,203 ,204,301,302, 303,304	RC07GF2R7J	RESISTOR, 2.7 OHM, .25 W	
41								
42	2				R105,106	RC07GF150J	RESISTOR, 15 OHM .25 W	
43	2				R107,112	RC20GF270J	RESISTOR, 27 OHMS, .5 W	
44	2				R108,113	RH25-.2	RESISTOR, 0.2 OHM, 25 W	
45	2				R111,116	RC20GF272J	RESISTOR, 2.7K OHM, .5 W	
46	3				R117,118,119	RC20GF510J	RESISTOR, 51 OHM .5W	
47	2				R205,305	RC07GF240J	RESISTOR, 24 OHM, .25 W	
48	2				R206,306	RC07GF470J	RESISTOR, 47 OHM, .25 W	
49	2				R207,307	RC32GF132	RESISTOR, 1300 OHM, 1 W	

ACRODYNE

BLUE BELL, PA

Title
VHF HIGH BAND
LEFT 300 W PA

PL24209000 Rev L

PREPARED BY

HFG

SHEET NO.

4

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
50	4				R208,209,308, 309	RC07GF6R2J	RESISTOR, 6.2 OHM, .25 W	
51	3				R120,121,122	RC20GF821J	RESISTOR, 820 OHM, .5 W	
52	3				R123,124,125	RC20GF430J	43 OHM, .5 W	
53	3				R126,127,128	RC20GF511J	RESISTOR, 510 OHM, .5 W	
54	3				R129,130,131	RC020GF620J	RESISTOR, 62 OHM, .5 W	
55	1				R132	RC20GF201J	RESISTOR, 200 OHM, .5 W	
56	2				R133,134	SBT	RESISTOR, SBT	
57	4				R211,212,311, 312	RC07GF130J	RESISTOR, 13 OHM, .25 W	
58								
59	6				R14-19	MWS ALLOY 650	#18 MWS ALLOY 650 NiCr, 2.38 IN. LONG	
60	1						TEFLON SLEEVING, 1.125 IN. LONG	
61	1				TB1	8-140-3/4W	TERMINAL BLOCK, 8 POSTION. SCREW DOWN	
62	1				TB2	4-140-3/4W	TERMINAL BLOCK, 4 POSTION, SCREW DOWN	
63	1				TS1	21608653	TEMPERATURE SENSOR	
64								
65	1				W1	23200165-5-0-48-4	CABLE ASSEMBLY	
66	1				W2	22300165-5-0-57-6	CABLE ASSEMBLY	
67	1				W3	1168A	COAX CABLE, 50 OHM, 10 IN. LONG	
68	3				W101,201,301	RG-188	COAX CABLE, 50 OHM, 10.5 IN. LONG	
69	3				W102,202,302	RG-316	COAX CABLE, 25 OHM 9-5/8 IN. LONG	
70	6						TEFLON SLEEVING, 1.125 IN. LONG	
71	1						TEFLON SLEEVING, 5 IN. LONG	
72	6						NYLON TIE WRAPS	
73						24409007	PRINTED CIRCUIT BOARD	
74	1					24309018	HEATSINK	
75	1					22309060	TOP WALL	
76	1					22309062	FRONT WALL	
77	1					22309063	BOTTOM WALL	
78	1					22309061	SEPERATION WALL	
79	1					22309064	REAR WALL	
80	1					23309059-01	COVER	
81	1					23309014	HEAT SPREADER PLATE	

ACRODYNE

BLUE BELL, PA

Title
**VHF HIGH BAND
LEFT 300 W PA**

PL24209000 Rev L

PREPARED BY

HFG

SHEET NO.

5

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501-502	-503	-504	DES.	IDENTIFYING NUMBER		
82	1				0097-0551-02	FINGER STOCK, 55" LONG	
83	3				3823-1	FUSE HOLDER	
84	1				23306099	TOP BAR	
85	1				22305327	BOTTOM BAR	
86	4				770-1871-20	MICA WAFER (Q101,102,201, & 301)	
87	A/R					THERMAL GREASE	
88	3				21309038-01	TRANSISTOR CLAMP	
89	3				21309038-02	TRANSISTOR CLAMP PLATE	
90							
91	17					#4-40 x ¼" LG PAN HD. SCREW	
92	45					#4-40 x 3/8" LG. PAN HD. SCREW	
93	17					#4-40 x ½" LG. PAN HD. SCREW	
94	4					#4-40 x 5/8" LG. PAN HD. SCREW	
95	28					#4-40 x 1-1/4" LG. FLAT HD. SCREW	
96	91					#4 FLAT WASHER	
97	109					#4 LOCK WASHER	
98	24					#6-32 x 3/8" LG. SOCKET HD. CAP SCREW	
99	24					#6 FLAT WASHER	
100	24					#6 LOCK WASHER	
101	4					#8-32 x ½" LG. PAN HD. SCREW	
102	6					#8-32 x 5/8" LG. PAN HD. SCREW	
103	10					#8 FLAT WASHER	
104	10					#8 LOCK WASHER	
105							
106	3					#6-32 x ¼" LG. SOCKET SET SCREW	
107	6					#4-40 x ¾" LG. SOCKET HD. CAP SCREW	
108							
109	1				22311681-04	DETAIL, VHF AMP COAX	
110	1				22311681-05	DETAIL, VHF AMP COAX	
111	4				21311677	ASSY, VHF AMP SCREEN CLAMP	
112	4				21311678	ASSY, VHF AMP SCREENS	
113							
114	2					#4-40 x ½" LG. CAP HEAD SCREW	
115	8					#4-40 x 3/16" LG. PAN HD. SCREW	

ACRODYNE

BLUE BELL, PA

Title
VHF HIGH BAND
LEFT 300 W PA

PL24209000 Rev L

PREPARED BY

HFG

SHEET NO.

6

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
116								
117	1				W302	22311681-01	DETAIL, VHF AMP COAX	
118	1				W202	22311681-02	DETAIL, VHF AMP COAX	
119	6					B52200F006	COMPRESSION WASHER	
120								
121								
122								
123								
124								
125								
126								
127								
128								

JOB NO.		NEXT ASSY.		USED ON		REF. DES.	

ASSY		DESCRIPTION	

ACRODYNE				ACRODYNE INDUSTRIES 516 TOWNSHIP LINE ROAD BLUE BELL, PA. 19422			
TITLE ASSEMBLY: VHF HIGH BAND RIGHT 300 W PA							
CODE IDENT 51336		DOCUMENT NUMBER PL24209010			REVISION K		
PREPARED BY HGF		DATE 11/15/94	APPROVED BY		DATE		
CHECKED BY		DATE	SHEET 1 OF 6				

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
2437 2436	A	SEE ECN 2/8/95 MTS	3/95	B
2499	B	ADDED C222. C322	11/13/95	B 11/95
	C	CHANGED ITEM 81 FROM 23309014 M.C.	12/2/95	B
	D	ADDED ITEM 44	12/13/95	B
2538	E	SEE ECN MC	1/15/96	B 1/96
2674	F	ITEM 80 FIXED - HCC	11/96	B
2894	G	ITEM 49 P.N. CHANGED - 9/97 HCC	10/97	M.B.
3011 3012	H	SEE ECN PAGE 8 ADDED HERE - 1/98 HCC	02/98	M.B.
3060 3094	I	SEE ECN ADD ITEM 110. 109 WAS 22311681 - 03 HFG 3/31/98	4/8/98	M.B.
3117	J	SEE ECN ADD ITEM 119 DWM 4/25/98	9/09/98	MV
3160	K	CHANGED QUANTITY OF #'S 111,12 JJC 09/09/98		

ACRODYNE

BLUE BELL, PA

Title
**VHF HIGH BAND
RIGHT 300 W PA**

PL24209010 Rev K

PREPARED BY

HFG

SHEET NO.

2

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501-502	-503	-504	DES.	IDENTIFYING NUMBER		
1	X			X	24509085	SCHEMATIC	
2	X				21709162	CAP PLACEMENT	
3	X				21709162	CAP PLACEMENT	
4							
5	4			B101,102,201 ,301	2664000101	FERRITE BEAD	
6	4			C1,2,3,4	1280-060	CAPACITOR, FEEDTHRU, 1000pF, 25A/2500V	
7	2			C5,6	54-713-001-102P	CAPACITOR, FEEDTHRU, 1000pF, 5A	
8	2			C7,8	100B6R8CCA500X	CAPACITOR, CHIP 6.8pF	
9	3			C101,201,301	24AA021	CAPACITOR, VARIABLE	
10	18			C102,107,114, 117,120,123,202 ,203,206,210, 213,217,302, 303,306,310,313 , 317	100B102MCA50X	CAPACITOR, CHIP, 1000pF	
11							
12							
13	20			C104,105,115, 118,121,124,204 ,205,207,211, 214,218,220,304 ,305,307,311, 314,318,320	RPE121Z5U104M	CAPACITOR, 0.1uF	
14							
15							
16							
17	2			C108,112	TLB1A102	CAPACITOR, 1000uF, 10V, ELECT	
18	4			C109,113,125, 126	25VBSL-470	CAPACITOR, 470uF, 35V	
19	4			C209,216,309, 316	TLB1H102M	CAPACITOR, 1000uF, 50V ELECT	
20	2			C110,111	TLB1J470M	CAPACITOR, 47uF, 50V, ELECT	
21	12			C103,106,116, 122,208,212,215	199D226X0035	CAPACITOR, 22uF, 35V, TANT	

ACRODYNE

BLUE BELL, PA

Title
**VHF HIGH BAND
RIGHT 300 W PA**

PL24209010 Rev K

PREPARED BY

HFG

SHEET NO.

3

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
					,219,308,312, 315,319			
22								
23	2				C321,221	199D225X0035BAI	CAPACITOR, 2.2uF, 35V, TANT	
24	2				C222,322	10EN-IT	CAPACITOR, 1000uF, 10V	
25	2				CR101,102	1N4002	DIODE, 100V, 1A	
26	3				F1,2,3	AGC15	FUSE, 15A	
27	2				J1,2	TSM-110-01-T-DV	20 PIN HEADER, SURFACE MOUNT	
28	6				L101,102,201, 202,301,302	11300531-181-5R05	COIL	
29	1				L103	1025-04	COIL, 0.22uH	
30	3				Q1,2,3	SD1485	TRANSISTOR, RF	
31	4				Q201,202,301, 302	BD135	TRANSISTOR	
32	2				Q101,102	MJ371	TRANSISTOR	
33								
34	6				R9-13,20	3339P-1-501	POTENTIOMETER, 500 POT	
35	2				R110,115	3329P-1-101	POTENTIOMETER, 100 POT	
36	2				R210,310	3339P-1-502	POTENTIOMETER, 5K POT	
37	1				R1	31-1007	RESISTOR, FLANGE, 100 OHM, 40 W	
38	1				R2	31-1003-100	RESISTOR FLANGE, 100 OHM, 250 W	
39	6				R3-8	RC07GF101J	RESISTOR, 100 OHM, .25W	
40	12				R101,102,103, 104,201,202,203 ,204,301,302, 303,304	RC07GF2R7J	RESISTOR, 2.7 OHM, .25 W	
41								
42	2				R105,106	RC07GF150J	RESISTOR, 15 OHM .25 W	
43	2				R107,112	RC20GF270J	RESISTOR, 27 OHMS, .5 W	
44	2				R108,113	RH25-.2	RESISTOR, 0.2 OHM, 25 W	
45	2				R111,116	RC20GF272J	RESISTOR, 2.7K OHM, .5 W	
46	3				R117,118,119	RC20GF510J	RESISTOR, 51 OHM .5W	
47	2				R205,305	RC07GF240J	RESISTOR, 24 OHM, .25 W	
48	2				R206,306	RC07GF470J	RESISTOR, 47 OHM, .25 W	
49	2				R207,307	RC32GF132	RESISTOR, 1300 OHM, 1 W	

ACRODYNE

BLUE BELL, PA

Title
**VHF HIGH BAND
RIGHT 300 W PA**

PL24209010 Rev K

PREPARED BY

HFG

SHEET NO.

4

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
50	4				R208,209,308, 309	RC07GF6R2J	RESISTOR, 6.2 OHM, .25 W	
51	3				R120,121,122	RC20GF821J	RESISTOR, 820 OHM, .5 W	
52	3				R123,124,125	RC20GF430J	43 OHM, .5 W	
53	3				R126,127,128	RC20GF511J	RESISTOR, 510 OHM, .5 W	
54	3				R129,130,131	RC020GF620J	RESISTOR, 62 OHM, .5 W	
55	1				R132	RC20GF201J	RESISTOR, 200 OHM, .5 W	
56	2				R133,134	SBT	RESISTOR, SBT	
57	4				R211,212,311, 312	RC07GF130J	RESISTOR, 13 OHM, .25 W	
58								
59	6				R14-19	MWS ALLOY 650	#18 MWS ALLOY 650 NiCr, 2.38 IN. LONG	
60	1						TEFLON SLEEVING, 1.125 IN. LONG	
61	1				TB1	8-140-3/4W	TERMINAL BLOCK, 8 POSTION. SCREW DOWN	
62	1				TB2	4-140-3/4W	TERMINAL BLOCK, 4 POSTION, SCREW DOWN	
63	1				TS1	21608653	TEMPERATURE SENSOR	
64								
65	1				W1	23200165-5-0-48-3	CABLE ASSEMBLY	
66	1				W2	22300165-5-0-57-6	CABLE ASSEMBLY	
67	1				W3	1168A	COAX CABLE, 50 OHM, 7.5 IN. LONG	
68	3				W101,201,301	RG-188	COAX CABLE, 50 OHM, 10.5 IN. LONG	
69	3				W102,202,302	RG-316	COAX CABLE, 25 OHM 9-5/8 IN. LONG	
70	6						TEFLON SLEEVING, 1.125 IN. LONG	
71	1						TEFLON SLEEVING, 5 IN. LONG	
72	6						NYLON TIE WRAPS	
73						24409009	PRINTED CIRCUIT BOARD	
74	1					24309057	HEATSINK	
75	1					22309060	TOP WALL	
76	1					22309062	FRONT WALL	
77	1					22309063	BOTTOM WALL	
78	1					22309061	SEPERATION WALL	
79	1					22309064	REAR WALL	
80	1					23309059-01	COVER	
81	1					23309056	HEAT SPREADER PLATE	

ACRODYNE

BLUE BELL, PA

Title
**VHF HIGH BAND
RIGHT 300 W PA**

PL24209010 Rev K

PREPARED BY

HFG

SHEET NO.

5

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501-502	-503	-504	DES.	IDENTIFYING NUMBER		
82	1				0097-0551-02	FINGER STOCK, 55" LONG	
83	3				3823-1	FUSE HOLDER	
84	1				23306099	TOP BAR	
85	1				22305327	BOTTOM BAR	
86	4				770-1871-20	MICA WAFER	
87	A/R					THERMAL GREASE	
88	3				21309038-01	TRANSISTOR CLAMP	
89	3				21309038-02	TRANSISTOR CLAMP PLATE	
90	6					#8 GROUND LUG	
91	17					#4-40 x ¼" LG PAN HD. SCREW	
92	45					#4-40 x 3/8" LG. PAN HD. SCREW	
93	17					#4-40 x ½" LG. PAN HD. SCREW	
94	4					#4-40 x 5/8" LG. PAN HD. SCREW	
95	28					#4-40 x 1-1/4" LG. FLAT HD. SCREW	
96	91					#4 FLAT WASHER	
97	109					#4 LOCK WASHER	
98	24					#6-32 x 3/8" LG. SOCKET HD. CAP SCREW	
99	24					#6 FLAT WASHER	
100	24					#6 LOCK WASHER	
101	4					#8-32 x ½" LG. PAN HD. SCREW	
102	6					#8-32 x 5/8" LG. PAN HD. SCREW	
103	10					#8 FLAT WASHER	
104	10					#8 LOCK WASHER	
105							
106	3					#6-32 x ¼" LG. SOCKET SET SCREW	
107	6					#4-40 x ¾" LG. SOCKET HD. CAP SCREW	
108							
109	1				22311681-04	DETAIL, VHF AMP COAX	
110	1				22311681-06	DETAIL, VHF AMP COAX	
111	4				21311677	ASSY, VHF AMP SCREEN CLAMP	
112	4				21311678	ASSY, VHF AMP SCREENS	
113							
114	2					#4-40 x ½" LG. CAP HEAD SCREW	
115	8					#4-40 x 3/16" LG. PAN HD. SCREW	

ACRODYNE BLUE BELL, PA	Title VHF HIGH BAND RIGHT 300 W PA	PL24209010 Rev K	
		PREPARED BY HFG	SHEET NO. 6

QUANTITY REQUIRED					REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES.	IDENTIFYING NUMBER		
116								
117	1				W202	22311681-01	DETAIL, VHF AMP COAX	
118	1				W302	22311681-02	DETAIL, VHF AMP COAX	
119	6					B52200F006	COMPRESSION WASHER	
120								
121								
122								
123								
124								
125								
126								
127								
128								

JOB NO.	NEXT ASSY	USED ON	REF DES
	23209084	TRH/500	

501	SINGLE 28V INPUT
502	DUAL 28V INPUTS

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA 19422

TITLE
VHF HIGH BAND DUAL 15W IPA

CODE IDENT	PL 24209037	RE
51336		B
PREPARED BY MTS	DATE 12-22-94	APPROVED <i>Bm</i>
CHECKED BY <i>Bm</i>	DATE 10-29-95	DATE 10-95
		SHEET 1 OF 7

2921	B	ADD TERMINAL FOR GND TO ASSY	10-95	<i>Bm</i>
2493	A	ADDED -502 ASSY	7/95-MTS	<i>Bm</i>
ECN	LTR	DESCRIPTION	DATE	NAM

ACRODYNE

BLUE BELL, PA

TITLE

VHF HIGH BAND DUAL 15W IPA

PL 24209037

REV

B

PREPARED BY

MTS

SHT. NO.

2

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
1	X	X			X	24509058	SCHEMATIC
2							
3							
4							
5	2	2			C303, 203	100B680KC500	CHIP CAP, 68pF
6	2	2			C311, 211	100B7R5KCA500X	7.5pF
7	2	2			C115, 415	100B100KCA500X	10pF
8	2	2			C402, 102	100B180KCA500X	18pF
9							
10	2	2			C405, 105	100B270KCA500X	27pF
11	4	4			C106, 107 406, 407	100B20KCA500X	82pF
12	8	8			C108, 117, 201 209, 301,	100B221KCA500	220pF
13					309, 408, 417		
14	4	4			C101, 116, 401, 416	100B301KCA200X	300pF
15	4	4			C215, 221, 315, 321	100B102MCA50X	1000pF
16	4	4			C109, 118, 409, 418	21CC647	CHIP CAP .A CASE 470pF
17							
18							

ACRODYNE

BLUE BELL, PA

TITLE

VHF HIGH BAND DUAL 15W IPA

PL 24209037

REV

B

PREPARED BY

MTS

SHT. NO.

3

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
19	4	4			C207, 208, 307, 308	DM5-100J	CAPACITOR, 10pF MICA
20	2	2			C205, 305	DM10-180J	↑ 18pF MICA
21	2	2			C204, 304	DM10-200J	20pF MICA
22	4	4			C213, 217, 313, 317	199D105X0035AA1	1pF 35V TANT
23	8	8			C123, 212, 216, 220,	RPE121Z5U104M50	0.1uF RPE
24					312, 316, 320, 423.		
25	10	10			C103, 104, 114, 206, 210	24AAA021	VAR
26					306, 310, 403, 404, 414		
27	2	2			C302, 202	D11A35D	9-35pF
28	4	4			C111, 120, 411, 420	CS13BF105K	1uF ELECT
29	6	6			C121, 122, 219	50EN10	10uF, 50V ELECT
30					319, 421, 422		
31	8	8			C110, 119, 214, 218,	TLB1J470M	47uF, 50V ELECT
32					314, 318, 410, 419		↓
33	2	2			C1, 2	54-713-001-102P	CAPACITOR, 1000pF FDTHRU 5A
34	-	1			C3	54-713-001-102P	CAPACITOR, 1000pF FDTHRU 5A
35							
36							

ACRODYNE
BLUE BELL, PA

TITLE

VHF HIGH BAND DUAL 15W IPA

PL 24209037

REV
B

PREPARED BY
MTS

SHT. NO.
4

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
37	1	1			F1	AGC - 10	FUSE, 10 AMP
38	—	1			F2	AGC - 10	FUSE, 10 AMP
39							
40	1	1			HY1	BHC	HYBRID LINE, 8 5/8" LONG
41	1	1			J1	TSM-110-01-T-DV	20 PIN HEADER, SURFACE MOUNT
42							
43							
44	2	2			L403, 103	11300531-241-1R52	COIL,
45	4	4			L102, 104, 402, 404	11300530-22-098-0	
46	4	4			L202, 204, 302, 304	11300530-22-108-0	
47	2	2			L203, 303	11300531-181-2R52	
48	2	2			L401, 101	1025-94	
49	2	2			L201, 301	1025-20	COIL, 1.00 μH
50							
51							
52	2	2			CR301, 201	1N4002	DIODE, 100V 1A
53	4	4			CR 101, 102, 401, 402	1N4004	
54							

ACRODYNE

BLUE BELL, PA

TITLE

VHF HIGH BAND DUAL 15W IPA

PL 24209037

REV

B

PREPARED BY

MTS

SHT. NO.

5

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
55	4	4			R403, 103, 209 309	3329P-1-101	POTENTIOMETER, 100 POT
56	4	4			R4, 7, 10, 13	3339P-1-501	, 500 POT
57	4	4			R2, 5, 8, 11	RC07GF101J	RESISTOR 1/4W 100Ω
58	2	2			R104, 404	RC07GF181J	1/4W 180Ω
59	4	4			R101, 107, 401, 407	RC20GF150J	1/2W 15Ω
60	4	4			R204, 208, 304, 308	RC20GF160J	16Ω
61	2	2			R206, 306	RC20GF330J	33Ω
62	2	2			R210, 310	RC20GF680J	68Ω
63	2	2			R106, 406	RC20GF101J	100Ω
64	2	2			R105, 405	RC20GF432J	1/2W 4.3KΩ
65	2	2			R211, 311	RC3ZGF242J	1W 2.4KΩ
66	2	2			R102, 402	PW5-1	5W 1.0Ω
67	1	1			R1	125R500	RESISTOR 1.5W 50Ω
68	4	4			R3, 6, 9, 12	MWS ALLOY 650	RESISTANCE WIRE 18AWG 2.38" LG
69	1	1					TEFLON SLEEVING, 1/8" LONG
70	2	2			R301, 201	RH25-.5	RESISTOR, 20W FLANGE .5Ω
71	4	4			R205, 207, 305, 307	RC32GF160J	RESISTOR, 1W 16Ω
72							

ACRODYNE
BLUE BELL, PA

TITLE
VHF HIGH BAND DUAL 15W
IPA

PL 24209037

REV
B

PREPARED BY
C Moore

SHT. NO.
60

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
73							
74							
75	4	4			Q101,201,301, 401	MJE 371	TRANSISTOR
76	2	2			Q2,Q3	SD1459-4	RF TRANSISTOR
77	2	2			Q1,Q4	VTV-075	RF TRANSISTOR
78							
79	1	1			—	1414-8	GROUND LUG TERMINAL
80	1	1			TS1	Z1608653	TEMP SENSOR
81	1	1			TB1	8-140-3/4W	TERMINAL BLOCK 8 POS
82							
83	1	1			W1	23200165-5-0 -48-5.5	CABLE ASSY
84	2	2			W2,3	23200165-5-0 -48-4	CABLE ASSY
85							
86							
87							
88							
89							
90							

ACRODYNE
BLUE BELL, PA

TITLE

VHF HIGH BAND DUAL
15 WATT AMP

PL 24209037

REV
B

PREPARED BY

C MOORE

SHT. NO.

7

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
91							
92							
93	1	1				24309080	HEATSINK
94	1	1				21308645-02	FRONT WALL
95	1	1				21309099	REAR WALL
96	1	1				24409036	PCB
97	2	2				21309098	SIDE WALL
98	1	1				23309059-2	COVER
99	4	4				770-1871-20	MICA WAFER (Q101, 401)
100	A/R	A/R					THERMAL GREASE
101	1	2				3823-1	FUSE HOLDER
102	6	6					#20 PVC WIRE 1.0" LG
103	1	1				0097-0551-02	FINGER STOCK 43"

JOB NO.	NEXT ASSY.	USED ON	REF. DES.
	22108988	TLH/500S	

ASSY	DESCRIPTION

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA. 19422

TITLE

ASSEMBLY, 600 WATT VHF HIGH BAND AMPLIFIER

CODE IDENT	DOCUMENT NUMBER	REVISION
51336	PL24209082-501	D
PREPARED BY C.MOORE	DATE 12/28/94	APPROVED BY DATE
CHECKED BY	DATE	SHEET 1 OF 3

ECN	LTR	DESCRIPTION	REVISED BY	APPROVED BY
	A	CHANGED ITEM 50 TO PL1, ITEM 1 WAS 22509063	MC 11/7/95	
3066	B	PER ECN QTY OF ITEM 37 WAS 4, ITEM 25 WAS 23305443	HFG 4/1/98	MB 04/98
	C	ITEM #31 WAS CHANGED TO REFF. DES. W1 & W2.	MTS 08/98	MB 08/98
3205 3242	D	PART NUMBERS WRONG. #24 WAS 21607579, #35 WAS 21306441-04, AND #50 WAS PL1	JJC 10/ 06/98	

ACRODYNE

BLUE BELL, PA

Title
**ASSEMBLY, 600 WATT
VHF HIGH BAND AMP.**

PL 24209082-501 Rev D

PREPARED BY

HFG

SHEET NO.

2

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
1	X				X	22509167	WIRING DIAGRAM
2							
3	1				A1	24209000	ASSEMBLY, VHF HIGH BAND LEFT 300 W AMPLIFIER
4	1				A2	24209010	ASSEMBLY, VHF HIGH BAND RIGHT 300 W AMPLIFIER
5	1				A3	22209040-501	ASSEMBLY, METER SWITCH PCB
6	1				A4	22208858-502	ASSEMBLY, CONTROL CIRCUIT PCB
7							
8							
9							
10							
11							
12							
13	2				BL1,2	JD24B2	BLOWER(ROTRON MAJOR 24VDC)
14							
15	1				C1	CK05BX104K	CAPACITOR 0.1 UF
16	1				CR1	MB2505	DIODE
17							
18							
19							
20	1				J4X	206036-1	CONNECTOR, 16 PIN
21	1				J5XR	22308094-01	HC CONNECTOR,(NL4MPR MODIFIED)
22	1				J5XL	22308094-02	HC CONNECTOR,(NL4MPR MODIFIED)
23							
24	1				M1	24209082	METER
25	1					23305443-02	CONNECTOR BRACKET
26	2					22305362	PANEL BRACKET
27	1					22306104	TOP PANEL BRACKET
28	1					24308617-02	FRONT PANEL
29	6					609-2030	CONNECTOR, 20 CONDUCTOR RIBBON CABLE
30	4					609-2031	CLAMP, 20CONDUCTOR RIBBON CABLE
31	2				W1,2	171-20	20CONDUCTOR RIBBON CABLE
32							
33							
34							

ACRODYNE

BLUE BELL, PA

Title
**ASSEMBLY, 600 WATT
VHF HIGH BAND AMP.**

PL 24209082-501 Rev D

PREPARED BY

HFG

SHEET NO.

3

QUANTITY REQUIRED				REFERENCE	PART OR	DESCRIPTION	VENDER
ITEM	-501	-502	-503	-504	DES. IDENTIFYING NUMBER		
35	1				21311127	METER FACE	
36	2				8237-A-0440	STANDOFF, 2-1/2" LG., #4-40 THD.	
37	1				2177	GROMMET, 1/2"	
38							
39							
40	1				48-20-401-10	LATCH	SOUTHCO
41	2				11402-A-1032	HANDLE	
42	2				370-QD-22	SLIDE (ATTACH INNER SECTION ONLY)	
43							
44	2				23308003	GUIDE RAIL	
45	1				22308850	MOUNTING PLATE(BLOWER)	
46	2				24308010-03	DUCT PLATE	
47	1				23308848-02	BLOWER END FRONT	
48	1				23308848-01	BLOWER END REAR	
49							
50	1				PS-70-PL2	KNOB	
51	2				22300398-01	METER CLIP	
52	1				22308923-01	AIR BAFFLE	
53							
54	2				22308923-02	AIR BAFFLE	
55							
56							
57							
58							
59							
60							
61							
62							

JOB NO.	NEXT ASSY	USED ON	REF DES

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE R
BLUE BELL, PA 1942

TITLE

ASSY IF MODULATOR TYPE E PCB

CODE IDENT

51336 PL 24209831

PREPARED BY

DATE

APPROVED

DA

BRICKER

1-5

CHECKED BY

DATE

SHEET 1 OF 10

BRICKER

1-5-96

501	STD FREQ TOLERANCE L.O. (CRYSTAL)
502	± 1000 Hz FREQ TOL. L.O. (TCXO)
503	MULTIPLIER L.O. (TCXO E. BD.)

SEPARATE VISUAL/AURAL,
VHF H/BAND, M/N

3034	D	SEE ECN & ITEM 219 WAS 24203834-503 3/98	HFG	B
2947	C	Delete #226, ADD CR13 (#41), ADD R76 (#106) - 8/97	hcc	B
2829	B	ECN # 2829	CHH 5/27/97	
2636	A	C82 $\rightarrow$ 1.0NF TANT	8/96 - hcc	g-sg
ECN	LTR	DESCRIPTION	DATE	NA
REVISIONS				

Item	Quantity	Reference	Part	PART #	DESCRIPTION
1	7	B1,B2,B3,B4,B5,B6,B7	2664	2664000101	FERRITE BEAD
2	1	C24	.1uF	CK06BX104	
3	4	C66,C72,C78,C100	470 PF	21CC647	CHIP CAP.A CASE
4	7	C22, C27,C53,C59,C60, C69,C71	.001 UF	CK05BX102K	CAP. CERAMIC
5	8	C70,C75,C76,C77,C95,C96, C97,C98	.0047 UF	CK05BX472K	CAP. CERAMIC
6	5	C21,C67,C73,C79,C99	.01 UF	CK05BX103K	CAP. CERAMIC
7	7	C86,C87,C89,C90,C107, C109,C111	0.1 UF	CK06BX104K	CAP. CERAMIC
8	7	C8,C9,C11,C12,C30,C105, C106	10 PF MICA	DM5-100J	CAP
9	1	C15	15 PF MICA	DM10-150J	CAP
10	1	C108	24 PF MICA	DM10-240J	CAP
11	2	C25,C31	27 PF MICA	DM10-270J	CAP
12	1	C42	36 PF MICA	DM10-360J	CAP
13	1	C112	47PF MICA	DM10-470J	CAP
14	1	C44	56 PF MICA	DM10-560J	CAP
15	4	C32,C41,C56,C58	100 PF MICA	DM10-101J	CAP
16	1	C26	120 PF MICA	DM10-121J	CAP
17	1	C57	270 PF MICA	DM10-271J	CAP
18	1	C103	1000 PF MICA	DM15-102J	CAP
19	3	C20,C28,C94	1 UF 35V TANT	199D105X0035AA1	CAP
20	8	C10,C13,C29,C40,C64,C84, C92,C101	10 UF 20V TANT	199D106X9020CAI	CAP
21	1	C18	2.2 UF 35V TANT	199D225X0035BAI	CAP
22	6	C1,C2,C3,C4,C5,C6	10 UF 35V TANT	199D106X0035	CAP
23	1	C110	22 UF 35V TANT	199D226X0035	CAP
24	7	C23,C35,C36,C37,C38,C39, C62	47 UF 20V TANT	199D476X0020CAI	CAP

Item	Quantity	Reference	Part	PART #	DESCRIPTION
25	17	C16,C33,C34,C47,C50,C51, C52,C65,C68,C74,C80,C81, C83,C88,C91,C93,C104	0.1 UF MICA	RPE12125U104M50	CAP
26	1	C17	1200 PF MICA	P3122	CAP
27	1	C43	24AA024	24AA024	CAP 6-60PF
28	2	C102,C63	1 UF 50V ELECT RAD	25UH1	CAP
29	1	C61	100 UF 16V ELECT RAD	UVX1E101MPA	CAP
30	1	C49	10 UF 20V ELECT RAD	ULB1V100M	CAP
31	1	C46	220 UF 16V ELECT	500227M016CC2	CAP
32	2	C85,C14	220 UF 25V ELECT RAD	5150227M025B86A	CAP
33	3	C19,C45,C48	1000 UF 10V ELECT RAD	100RL010	CAP
34	1	C7	3300 UF 25V ELECT RAD	UVX1E332MHA	CAP
35	10	F2,F3,F4,F5,F6,F7,F8,F9, F10,F11	DST310	DST310-55V55223M	FILTER ELEMENT
36	1	F1	854273	854273	SAW FILTER H1 PK6 SAWTEK
37	2	E1,E2	65	65507-436	ONE PIN HEADER
38	1	L2	0.1 UH	1025-94	COIL 0.10 UH
39	1	L1	0.33 UH	1025-08	COIL 0.33 UH
40	1	L3	TK1207	TK1207	COIL VARIABLE
41	2	CR9,CR13	1N82A6	1N82A6	DIODE
42	9	CR1,CR2,CR3,CR11,CR15, CR16,CR20,CR21,CR23	1N4002	1N4002	DIODE 100V 1A
43	2	CR10,CR5	1N4148A	1N4148A	DIODE
44	2	CR4,CR8	1N4735A	1N4735A	DIODE ZENER 6.2V
45	2	CR24,CR25	1N5221B	1N5221B	DIODE
46	2	CR22,CR6	5082-4950	5082-4950	LED (GREEN)
47	1	CR14	5082-4855	5082-4855	LED (RED)
48	1	CR19	358L504	358L504	LED (RED)
49	2	CR17,CR7	358L505	358L505	LED (GREEN)

Item	Quantity	Reference	Part	PART #	DESCRIPTION
50	1	CR18	358L506	358L506	LED (YELLOW)
51	1	CR12	DKV6533C	DKV6533C	DIODE VARACTOR
52	1	R110	50 POT	3339P-1-500	POTENTIOMETER
53	3	R13,R17,R45	500 POT SQ	3386P-1-501	POTENTIOMETER
54	1	R62	1K POT	3339P-1-102	POTENTIOMETER
55	1	R84	10K POT SQ	3386P-1-103	POTENTIOMETER
56	1	R56,R50	10K POT	3339P-1-103	POTENTIOMETER
57	1	Q5	2N3904	2N3904	TRANSISTOR
58	2	Q4,Q3	2N3906	2N3906	TRANSISTOR
59	1	Q1	AA90	AA90	TRANSISTOR
60	1	Q6	MPS2369	MPS2369	TRANSISTOR
61	1	Q2	U310	U310	TRANSISTOR
62	1	R3	30.1K 1%	RW55C3012F	RES
63	1	R43	4.7	RC076F4R7J	RES .25W
64	1	R40	13	RC076F130J	RES .25W
65	1	R58	18	RC076F180J	RES .25W
66	1	R107	24	RC076F240J	RES .25W
67	1	R68	24	RC076F240J	RES .25W
68	2	R109,R111	36	RC076F360J	RES .25W
69	1	R117	39	RC076F390J	RES .25W
70	1	R66	62	RC076F620J	RES .25W
71	1	R64	51	RC076F510J	RES .25W
72	1	R41	56	RC076F560J	RES .25W
73	2	R105,R39	62	RC076F620J	RES .25W
74	1	R36	68	RC076F680J	RES .25W
75	1	R124	75	RC076F750J	RES .25W
76	1	R67	75	RC076F750J	RES .25W

Item	Quantity	Reference	Part	PART #	DESCRIPTION
77	1	R65	100	RC076F101J	RES .25M
78	1	R55	180	RC076F181J	RES .25M
79	7	R8,R54,R74,R99,R106,R108, R118	220	RC076F221J	RES .25M
80	2	R10,R75	270	RC076F271J	RES .25M
81	2	R104,R4	300	RC076F301J	RES .25M
82	1	R93	300	RC076F391J	RES .25M
83	4	R37,R56,R57,R120	470	RC076F471J	RES .25M
84	2	R20,R44	510	RC076F511J	RES .25M
85	1	R53	560	RC076F561J	RES .25M
86	1	R112	680	RC076F681J	RES .25M
87	2	R86,R87	750	RC076F751J	RES .25M
88	1	R119	910	RC076F911J	RES .25M
89	3	R18,R25,R49	1K	RC076F102J	RES .25M
90	1	R113	1.3K	RC076F132J	RES .25M
91	2	R88,R61	1.5K	RC076F152J	RES .25M
92	10	R31,R70,R78,R79,R82,R91, R95,R98,R100,R102	2K	RC076F202J	RES .25M
93	3	R34,R42,R121	2.2K	RC076F222J	RES .25M
94	2	R22,R21	2.7K	RC076F272J	RES .25M
95	2	R97,R59	3K	RC076F302J	RES .25M
96	1	R33	3.3K	RC076F332J	RES .25M
97	1	R52	4.7K	RC076F472J	RES .25M
98	1	R24	5.6K	RC076F562J	RES .25M
99	1	R32	6.8K	RC076F682J	RES .25M
100	1	R94	7.5K	RC076F752J	RES .25M
101	1	R29	8.2K	RC076F822J	RES .25M
102	2	R71,26	10K	RC076F103J	RES .25M

Item	Quantity	Reference	Part	PART #	DESCRIPTION
103	2	R51,R83	27K	RC076F273J	RES .25W
104	1	R30	30K	RC076F303J	RES .25W
105	2	R63,R19	33K	RC076F333J	RES .25W
106	2	R76,R92	39K	RC076F393J	RES .25W
107	2	R123,R122	47K	RC076F473J	RES .25W
108	1	R23	56K	RC076F563J	RES .25W
109	1	R12	62K	RC076F623J	RES .25W
110	1	R73	68K	RC076F683J	RES .25W
111	4	R5,R9,R27,R69	100K	RC076F104J	RES .25W
112	3	R85,R89,R90	150K	RC076F154J	RES .25W
113	3	R6,R11,R20	200K	RC076F204J	RES .25W
114	1	R46	560K	RC076F564J	RES .25W
115	2	R116,R14	680K	RC076F684J	RES .25W
116	7	R7,R15,R16,R35,R47,R48, R72	1M	RC076F105J	RES .25W
117	2	R77,R38	4.7M	RC076F475J	RES .25W
118	1	R60	18 .5W	RC206F180J	RES .5W
119	4	R80,R96,R101,R103	620 .5W	RC206F621J	RES .5W
120	1	R1	39 10W	PM10-39	RES 10W
121	1	R2	15 10W	PM10-15	RES 10W
122	2	S4,S3	TT1106	TT1106-VRA-1	R.A. SWITCH PCB MOUNT
123	1	S1	7180F36	7180F36-01-1-ACM	ROTORARY SWITCH PCB MOUNT
124	1	S2	10SP001	10SP001	SPDT SWITCH PCB MOUNT
125	4	TB1,TB2	1715721	1715721	TERM. BLOCK 2 POS
126	3	TB2,TB3	1715734	1715734	TERM. BLOCK 3 POS
127	2	U13,U16	2004	ULN2004A	IC HEX INVERTER
128	1	U4	21606584	21606584	IC

Item	Quantity	Reference	Part	PART #	DESCRIPTION
129	1	U3	AD844AN	AD844AN	IC
130	1	U1	LM358	LM358	IC DUAL OP AMP
131	1	U18	LM1881	LM1881	IC
132	1	U15	MC3302P	MC3302P	IC QUAD COMPARATOR
133	1	U2	MC34074	MC34074	IC
134	2	U11,U9	4040	MC14040P	IC
135	2	U12,U8	4060	MC14060P	IC (NO SOCKET)
136	1	U10	4046	MC14046P	IC
137	4	U5,U6,U7,U17	NE5205	NE5205AN	IC (NO SOCKET)
138	1	U14	AF002N2-32	AF002N2-32	6dBs ATTENUATOR,SOT-143 PK6(NO SOT
139	1	VR2	7805	7805	VOLTAGE REG 5V
140	2	VR5,VR4	7806	7806	VOLTAGE REG 6V
141	2	VR1,VR3	7812	7812	VOLTAGE REG 12V
142	1	C113	100B1R0CCA500X		CAPACITOR
143	1	CB2	1.0uF TANT	199D105X79020	CAP
144					
145					
146					
147	1	Y1	2482	21606379	CRYSTAL 4500 KHZ

ACRODYNE
BLUE BELL, PA

TITLE
ASSY RF CONVERTER/MODULATOR

PL 24209831

REV
D

PREPARED BY

SHT. NO.
8

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
201	1	1	1			1538-1024	JUMPER E1, E2
202	1	1	1			24408203	PC BD
203	1	1	1			97-870-08	RF FENCE 44"
204	1	1	1			97-866-08	RF FENCE 29"
205	3	3	3			18408-026	IC SOCKET 8 PIN (U1, 3, 18)
206	3	3	3			1A14CS2-TSD	IC SOCKET 14 PIN (U2, 4, 15)
207	5	5	5			1A16CS2-TSD	IC SOCKET 16 PIN (U9, 10, 11, 13, 16)
208	1	1	1			21306533-04	COVER RF MODULATOR
209	1	1	1			21308353-01	LABEL RF MODULATOR COVER
210	6	6	6			220-031212-01-0101	KNOB
211	2	2	2			24306351-01	SUPPORT RAIL
212	2	2	2			24306351-02	SUPPORT RAIL
213	1	1	1			24308517-03	SUPPORT RAIL
214	1	1	1			24308517-04	SUPPORT RAIL
215	A/R	A/R	A/R				THERMAL COMPOUND (VRI-5)
216	X	X				24509329	SCHEMATIC
217	27	27	27				#4 HARDWARE
218							

ACRODYNE BLUE BELL, PA					TITLE ASSEMBLY RF CONVERTER / MODULATOR PCB		PL 24209831	REV D
							PREPARED BY	SHT. NO. 9
ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION	
	501	502	503	504				
219	1	1	1		A1	22210211-502	DRIVER PCB	
220								
221								
222								
223	1	-	-		A2	24206064-505	LOCAL OSCILLATOR (CRYSTAL)	
224	-	1	-		A2	24206064-506	LOCAL OSCILLATOR (TCXO)	
225	1	1	1		A3	22207958	OSCILLATOR BUFFER PCB	
226								
227	2	2	1			21306533-05	COVER FOR DRIVER, LO	
228	-	1	1		C54	CK05BX10ZK	CAPACITOR .001 μ F	
229	1	-	-		C55	24AA024	CAPACITOR VARIABLE 6-60 PF	
230	-	1	1		Y2	254Y1046	TCXO 45.75 MHz	
231	1	-	-		Y3	21606380	CRYSTAL 45.75 MHz	
232	-	1	1		W9	23200165-5-V-5-3	COAX CABLE 50 Ω (RG-178)	
233	1	1	1		W1	23200165-5-L-31-18	CABLE ASSY RG-316 (21603204)	
234	1	1	-		W3	23200165-5-L-32-14	CABLE ASSY (21603207)	
235	1	1	1		W4	23200165-5-L-35-20	CABLE ASSY	
236	1	1	1		W5	23200165-5-L-35-30	CABLE ASSY $\downarrow$ (86350)	

ACRODYNE
BLUE BELL, PA

TITLE

ASSEMBLY RF MODULATOR
TYPE E PCB

PL 24209831

REV

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ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
237	1	1	1		W6	23200165-5-L -32-14	CABLE ASSY RG-316 (21603207)
238	1	1	1		W7	23200165-5-L -35-28	CABLE ASSY (86350)
239	1	1	1		W8	23200165-5-L -5-16	CABLE ASSY ↓
240	1	1	1		W2	23200165-5-U -41-18	CABLE ASSY RG-179 (PL20-5)
241	1	1	1		W10	23200165-5-W -5-5	CABLE ASSY RG-178
242	-	-	1		W11	23200165-30-L -41-2.6	CABLE ASSY 21603203, PL20-5
243							
244							
245	1	1	1			21308555 21308556	SWITCH STOP DETAIL
246	1	1	1		L4	1537-60	INDUCTOR 47μH
247	2	2	2		R81	RC20GF471J	RESISTOR, 470Ω, 1/2 W
248	1	1	1		CR55	1N4007	DIODE
249							
250							
251							
252							
253							
254							

JOB NO.	NEXT ASSY	USED ON	REF DES

ACRODYNE

ACRODYNE INDUSTRIES
516 TOWNSHIP LINE ROAD
BLUE BELL, PA 19422

ASSEMBLY VHF HIBAND
EXCITER WITH FAN, NTSC FORMAT

TITLE

CODE IDENT	REV
51336	B

PREPARED BY MMC	DATE 1/5/96	APPROVED BRICKER	DATE 1/5/96
CHECKED BY BRICKER	DATE 1/5/96	SHEET 1 OF 7	

MANUFACTURERS VERSION

ASSEMBLY	DESCRIPTION
-501	+/- 0.002% FREQ TOL 120VAC, RF POWER DISPLAYED
-502	+/- 1000Hz FREQ TOL 120VAC, RF POWER DISPLAYED
-503	EXTERNAL L.O. 120VAC, RF POWER DISPLAYED
-504	+/- 0.002% FREQ TOL 120VAC, RF POWER NOT DISPLAYED
-505	+/- 1000Hz FREQ TOL 120VAC, RF POWER NOT DISPLAYED
-506	EXTERNAL L.O. 120VAC, RF POWER NOT DISPLAYED

ASSEMBLY	DESCRIPTION
-507	+/- 0.002% FREQ TOL 240VAC, RF POWER DISPLAYED
-508	+/- 1000Hz FREQ TOL 240VAC, RF POWER DISPLAYED
-509	EXTERNAL L.O. 240VAC, RF POWER DISPLAYED
-510	+/- 0.002% FREQ TOL 240VAC, RF POWER NOT DISPLAYED
-511	+/- 1000Hz FREQ TOL 240VAC, RF POWER NOT DISPLAYED
-512	EXTERNAL L.O. 240VAC, RF POWER NOT DISPLAYED

3194	B	CHANGE PL PER ECN # 3194		MB
2933 2935	A	CHANGES TO ITEMS 29.40 & 42-9/97-hcc	9/97	MB
ECN	LTR	DESCRIPTION	DATE	NAME

ACRODYNE

ACRODYNE BLUE BELL, PA					TITLE ASSEMBLY VHF HIBAND EXCITER WITH FAN NTSC FORMAT		PL 24209833		REV B
							MANUFACTURER VERSION		
					PREPARED BY MMC		SHEET 2		
ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION		
	ALL								
1	☒				☒	22509963	WIRING DIAGRAM		
2	☒				☒	22008583	CONTROLS & INDICATORS		
3									
4									
5	1				BL1	5C152	FAN, SPRITE (ROTRON)		
6	1				C1	CK06BX104K	CAPACITOR .1uF		
7	1				A3	22209276-501	AURAL MODULATOR PCB		
8	1				CR1	1N4007	DIODE		
9									
10	1				FL1	6J4	FILTER, LINE		
11									
12	3					UG625B/U	CONNECTOR, BNC BULKHEAD		
13	1				J11	206036-1	CONNECTOR, 16 PIN		
14									
15	1				M1	21607572	SPEC., METER		
16									
17	1				PS1	HC24-2.4-A	POWER SUPPLY, 24V 2.4A "C" CASE		
18									

COPY

ACRODYNE

BLUE BELL, PA

TITLE
ASSEMBLY VHF HIBAND
EXCITER WITH FAN
NTSC FORMAT

PL 24209833

MANUFACTURER VERSION

REV
BPREPARED BY
MMCSHEET
3

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	ALL						
19	1				TB1	3-140-Y	TERMINAL BLOCK CINCH
20							
21	1				W1	22 AWG	WIRE, LENGTH AS REQUIRED (J1)
22							
23							
24	1				W4	23200165-41-L-35-20	CABLE ASSEMBLY (J2) (75 OHM)
25							
26	1					23307463	SHIELD, PCB
27	1					21307912	DETAIL, L.O. DAMPENING FOAM
28	2					22300398-01	CLIP, METER
29	2					23306355	LIP, FRONT
30	1					23306367-01	COVER, AC
31	1					24306353	CHASSIS
32	1					24306354-02	BACK PANEL WITH FAN
33	1					24308671-02	COVER
34	8					66593-2	PIN (J11)
35	2					B4-10-103-12	HANDLE
36							

COPY

ACRODYNE BLUE BELL, PA					TITLE ASSEMBLY VHF HIBAND EXCITER WITH FAN NTSC FORMAT		PL 24209833 MANUFACTURER VERSION		REV B
							PREPARED BY MMC		SHEET 4
ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION		
	ALL								
37	1					MS-3-1404	MARKER STRIP		
38	1					PS-70PL-2	KNOB		
39									
40	1PR					C-300-S-120	SLIDE		
41	1					2177	GROMMET		
42	1					4C740	GUARD, FAN (ROTRON)		
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									

FILE COPY

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BLUE BELL, PA

TITLE

ASSEMBLY VHF HIBAND
EXCITER WITH FAN
NTSC FORMAT

PL 24209833

MANUFACTURER VERSION

REV

B

PREPARED BY

MMC

SHEET

5

ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION
	501	502	503	504			
55	1	-	-	1	A1	24209831-501	PCB ASSY., MODULATOR/ RF CONVERTER, XTAL
56	-	1	-	-	A1	24209831-502	PCB ASSY., MODULATOR/ RF CONVERTER, TCXO
57	-	-	1	-	A1	24209831-503	PCB ASSY., MODULATOR/ RF CONVERTER
58							
59							
60							
61	1	1	1	1	F1	MDL-2	FUSE, SLOW BLOW, 2A, 250V
62	-	-	-	-	F1	MDL-1	FUSE, SLOW BLOW, 1A, 250V
63	1	1	1	-		21306329-02	METER FACE
64	-	-	-	1		21306699-02	METER FACE
65	1	1	1	1	RV1	V130LA10A	VARISTOR, 130V
66	-	-	-	-	RV1	V260LA40A	VARISTOR, 260V
67	1	1	1	-		24308513-01	PANEL, FRONT
68	-	-	-	1		24308513-05	PANEL, FRONT
69	1	1	1	-		21308555	SWITCH SETTING FOR A1S1
70	-	-	-	1		21308556	SWITCH SETTING FOR A1S1
71	4	4	4	4		8156-B-0440	SPACER
72							

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ACRODYNE BLUE BELL, PA					TITLE ASSEMBLY VHF HIBAND EXCITER WITH FAN NTSC FORMAT		PL 24209833 MANUFACTURER VERSION	REV B
							PREPARED BY MMC	SHEET 6
ITEM	QTY REQD				REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	DESCRIPTION	
	505	506	507	508				
55	-	-	1	-	A1	24209831-501	PCB ASSY., MODULATOR/ RF CONVERTER, XTAL	
56	1	-	-	1	A1	24209831-502	PCB ASSY., MODULATOR/ RF CONVERTER, TCXO	
57	-	1	-	-	A1	24209831-503	PCB ASSY., MODULATOR/ RF CONVERTER	
58								
59								
60								
61	1	1	-	-	F1	MDL-2	FUSE, SLOW BLOW, 2A, 250V	
62	-	-	1	1	F1	MDL-1	FUSE, SLOW BLOW, 1A, 250V	
63	-	-	1	1		21306329-02	METER FACE	
64	1	1	-	-		21306699-02	METER FACE	
65	1	1	-	-	RV1	V130LA10A	VARISTOR, 130V	
66	-	-	1	1	RV1	V260LA40A	VARISTOR, 260V	
67	-	-	1	1		24308513-01	PANEL, FRONT	
68	1	1	-	-		24308513-05	PANEL, FRONT	
69	-	-	1	1		21308555	SWITCH SETTING FOR A1S1	
70	1	1	-	-		21308556	SWITCH SETTING FOR A1S1	
71	4	4	4	4		8156-B-0440	SPACER	
72								

ADUC 111

ACRODYNE BLUE BELL, PA					TITLE ASSEMBLY VHF HIBAND EXCITER WITH FAN NTSC FORMAT		PL 24209833 MANUFACTURER VERSION	REV B
QTY REQD					REFERENCE DESIGNATION	PART OR IDENTIFYING NO.	PREPARED BY MMC	SHEET 7
ITEM	509	510	511	512			DESCRIPTION	
55	-	1	-	-	A1	24209861-501	PCB ASSY., MODULATOR/ RF CONVERTER, XTAL	
56	-	-	1	-	A1	24209831-502	PCB ASSY., MODULATOR/ RF CONVERTER, TCXO	
57	1	-	-	1	A1	24209831-503	PCB ASSY., MODULATOR/ RF CONVERTER	
58								
59								
60								
61	-	-	-	-	F1	MDL-2	FUSE, SLOW BLOW, 2A, 250V	
62	1	1	1	1	F1	MDL-1	FUSE, SLOW BLOW, 1A, 250V	
63	1	-	-	-		21306329-02	METER FACE	
64	-	1	1	1		21306699-02	METER FACE	
65	-	-	-	-	RV1	V130LA10A	VARISTOR, 130V	
66	1	1	1	1	RV1	V260LA40A	VARISTOR, 260V	
67	1	-	-	-		24308513-01	PANEL, FRONT	
68	-	1	1	1		24308513-05	PANEL, FRONT	
69	1	-	-	-		21308555	SWITCH SETTING FOR A1S1	
70	-	1	1	1		21308556	SWITCH SETTING FOR A1S1	
71	4	4	4	4		8156-B-0440	SPACERS	
72								

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