

BZ5MXD10V

Application for FCC Certification 10W Digital Television Translator

Parts List and Tune-up Procedure:

The following is the procedure for changing the channel of the MXD10V translator. Channel change involves retuning of the output filter and recalibration of the output meter.

The amplifier meter was calibrated to read 100% (top scale) at full power and at the channel specified when the transmitter was tested at the factory. If the amplifier is to operate at a channel other than that of the factory test channel, the metering is going to require re-calibration. Refer to the transmitter service manual for the specific calibration procedures. The power meter setting is a channel dependent calibration.

1. Connect the transmitter output to a 50 ohm dummy load or the antenna. The transmitter uses a 50 Ω type N connector for its output. An inline wattmeter with a selection of detector elements suitable for digital signals should be used for measurements.
2. Connect the 115VAC mains input. This AC circuit should be rated for 15 amperes, and should be supplied through a slow-tripping breaker or time delay fuse..
3. Switch 'ON' the amplifier. The two LEDs marked INTRLK and TEMP should be lighted, and the amplifier should be operating and the cooling fans the amplifier should be running.
4. The amplifier is equipped with AGC and VSWR protections which have been factory set. To set the correct level out of the channel processor or exciter, switch OFF the amplifier AGC (switch down) then adjust the Transcoder level control so that the output of the amplifier is 110%. Switch ON the AGC and front panel meter should read 100%. If not, adjust the front panel pot labeled AGC LEVEL for 100% indication.

The output filter must be retuned as per the frequency response sweeps attached (note: two different tunings depending on the type of filter used):

BZ5MXD10V

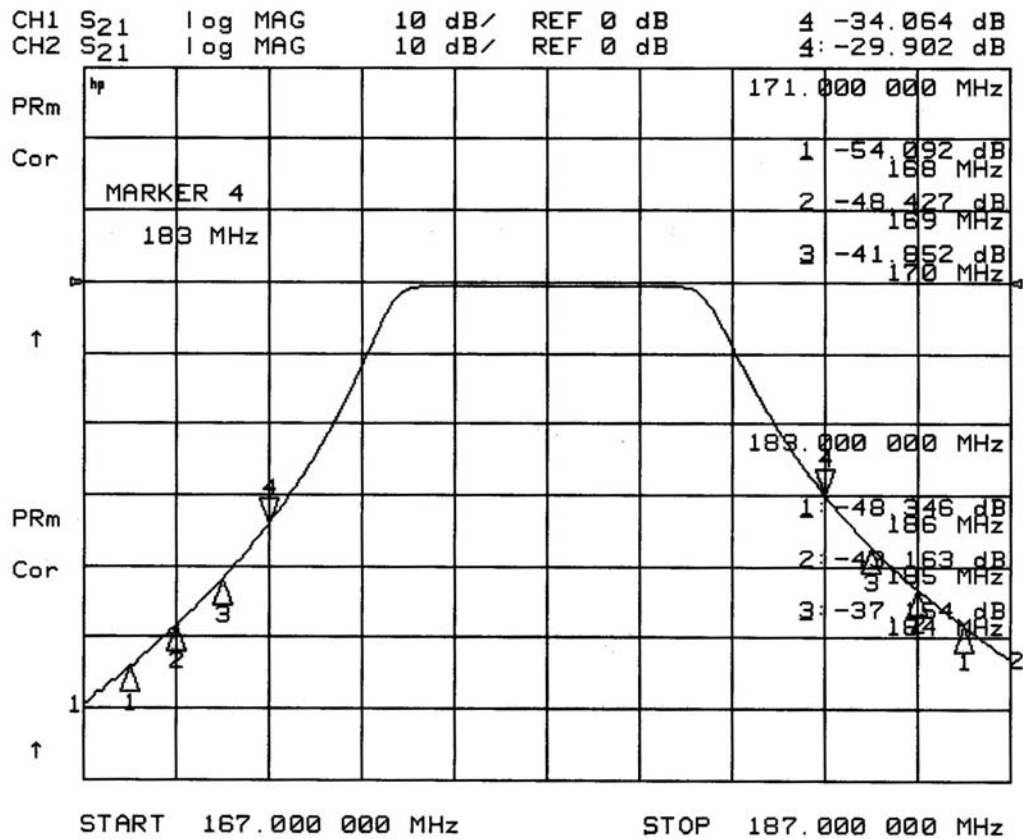
Application for FCC Certification

10W Digital Television Translator

Parts List and Tune-up Procedure

Filter:

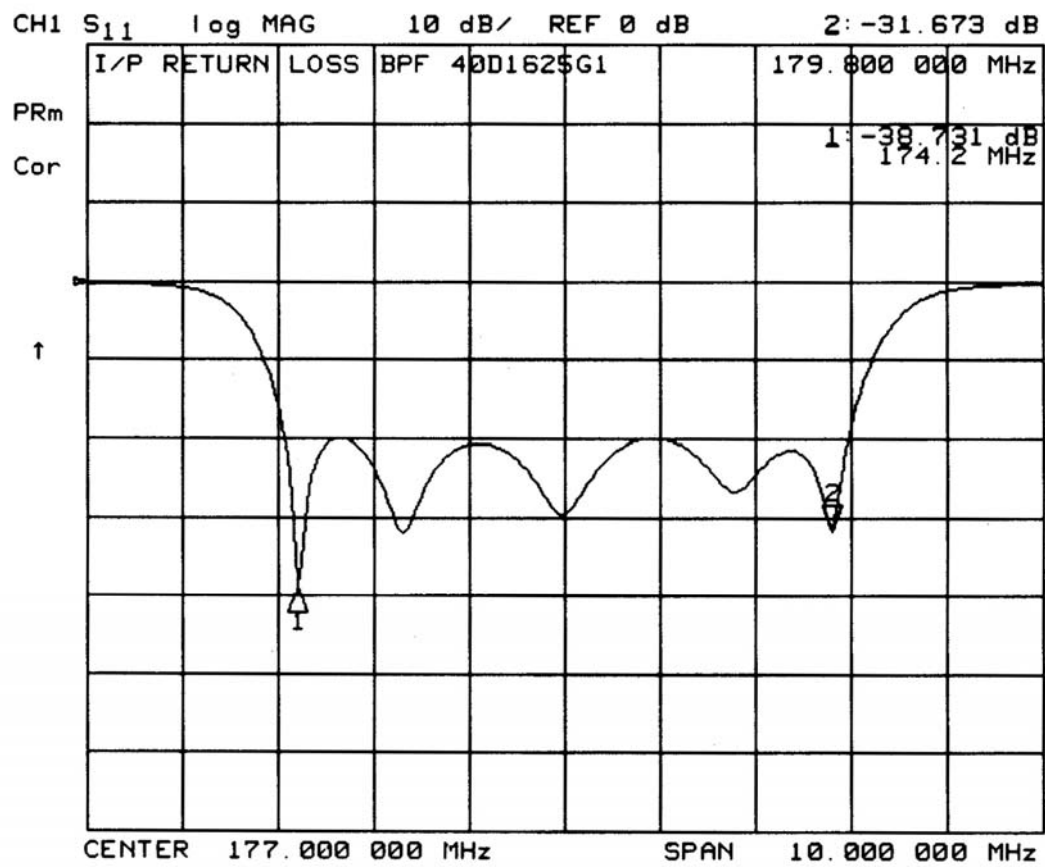
Bandpass Response



BZ5MXD10V
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Parts List and Tune-up Procedure

Filter:
Return loss



Level	Line	Tp	Component	Description	Rev	ID	Qty	UM	Total	RCh
1	1	9	40D2168	ASSEMBLY DRAWING R-2	R-2		0	EA	0	
1	10	5	40D2165P1	FRONT PANEL R-0	R-0		1	EA	1	
1	11	5	40D2167P1	CHASSIS R-2	R-2		1	EA	1	
1	12	1	30C1899G1	HEATSINK ASSY HB R-7	R-7		1	EA	1	
2	1	9	30C1899	ASSEMBLY DRAWING R-2	R-2		0	EA	0	
2	4	5	86350	CONNECTOR BNC BULKHEAD			1	EA	1	7
2	5	5	2001-5032-00	CONNECTOR			1	EA	1	7
2	8	5	AGC7	FUSE 7A 32V		F1-F2	2	EA	2	
2	10	1	10A1453G4	PCB ASSY PHASE SHIFTER R-17	R-17		1	EA	1	
3	2	9	10A1453SHT6	ASSEMBLY DRAWING R-8	R-8		0	EA	0	17
3	4	9	10A1453	ASM DWG/PATT/SILKSCRN/SCH R-7	R-7		0	EA	0	
3	6	5	10A1453P1	PCB PHASE SHIFTER R-5	R-5		1	EA	1	
3	7	9	10A1453	ASM DWG/PATT/SILKSCRN/SCH R-7	R-7		0	EA	0	
3	8	9	10A1453	ASM DWG/PATT/SILKSCRN/SCH R-7	R-7		0	EA	0	
3	9	9	10A1453	ASM DWG/PATT/SILKSCRN/SCH R-7	R-7		0	EA	0	
3	11	9	10A1453SHT9	ASSEMBLY DRAWING R-5	R-5		0	EA	0	17
3	12	9	10A1453 SH10	SCHEMATIC R-0	R-0		0	EA	0	
3	14	5	B1570-B-1/4-05	SPACER TIN PLATED			4	EA	4	
3	18	5	1280B	TURRET			1	EA	1	
3	27	5	681-09478	CAP 4p7 100V CERAMIC		C5	1	EA	1	
3	28	5	030-38108	CAP 1u 63V ELECT		C6	1	EA	1	
3	29	5	030-38108	CAP 1u 63V ELECT		C7	1	EA	1	
3	30	5	630-09472	CAP 4700p 100V CERAMIC		C8	1	EA	1	
3	31	5	630-09472	CAP 4700p 100V CERAMIC		C9	1	EA	1	
3	32	5	630-09472	CAP 4700p 100V CERAMIC		C10	1	EA	1	
3	33	5	630-09472	CAP 4700p 100V CERAMIC		C11	1	EA	1	
3	39	5	PR37J 300 OHMS	RES 1.6W 5% 300 SPR 05-064		R4	1	EA	1	
3	47	5	MHW6185	HYBRID		U2	1	EA	1	
3	48	5	MC7824CT	IC VOLT REG TTC # 8220-017		U3	1	EA	1	
3	50	5	MWA330	IC RF AMP		U4	1	EA	1	
3	61	5	10A212P1	COIL 7t R-6	R-6	L3	1	EA	1	
3	62	5	10A212P1	COIL 7t R-6	R-6	L4	1	EA	1	
2	11	1	20B1226G1	PCB ASSY 250W OUTPUT R-7	R-7		1	EA	1	
3	1	9	20B1226P1	ASSEMBLY DRAWING R-7	R-7		0	EA	0	
3	10	4	20B1224P1	PCB OUTPUT BD HB 250W AMP R-3	R-3		1	EA	1	
4	1	5	250-GX0600-5511	0.060" +/- 0.002" 1oz 36X48			11	IN	11	
3	11	9	20B1225	P.C. PATTERN R-3	R-3		0	EA	0	
3	13	5	1A1120-05	FUSE CLIP			2	EA	2	
3	17	9	30C1057	SCHEMATIC R-4	R-4		0	EA	0	
3	19	5	2062-0000-00	RECEPTACLE SEE 50-651-0000-31			1	EA	1	
3	21	5	UT-85C TP 50 ^	COAX CABLE 50 OHM TIN PLATED			0	FT	0	
3	23	5	100B-102-JP50X	CAPACITOR: CHIP 1000pf		C8	1	EA	1	
3	24	5	2222-119-28479	CAP 47u 63V ELECT PREFERRED		C9	1	EA	1	
3	25	5	100B-102-JP50X	CAPACITOR: CHIP 1000pf		C10	1	EA	1	
3	26	5	2222-119-28479	CAP 47u 63V ELECT PREFERRED		C11	1	EA	1	
3	27	5	100B-680-JP500X	CAP 68p 500V CHIP			1	EA	1	
3	28	5	100B-680-JP500X	CAP 68p 500V CHIP			1	EA	1	
3	29	5	175B-270-JMS500	CAP 27p 500V CHIP SEE NOTES			1	EA	1	
3	30	5	175B-270-JMS500	CAP 27p 500V CHIP SEE NOTES			1	EA	1	
3	31	5	5051-3105K	CAP 1uf 100V POLY		C1	1	EA	1	
3	32	5	5051-3105K	CAP 1uf 100V POLY		C7	1	EA	1	
3	33	5	10A571P7	COIL 3t 3/16" I.D. #20		L7	1	EA	1	
3	34	5	10A1135P1	COIL HB OUTPUT FAB IN HOUSE R2	R2	L9	1	EA	1	
3	35	5	10A571P7	COIL 3t 3/16" I.D. #20		L4	1	EA	1	
2	12	1	20B1222G2	PCB ASSY 250W INPUT R-12	R-12		1	EA	1	
3	10	4	20B1220P1	PCB INPUT HB R-2	R-2		1	EA	1	
4	1	5	250-GX0600-5511	0.060" +/- 0.002" 1oz 36X48			15	IN	15	
3	11	9	20B1221	P.C. PATTERN			0	EA	0	
3	13	5	1A1119-05	FUSE CLIP			2	EA	2	

Level	Line	Tp	Component	Description	Rev	ID	Qty	UM	Total	RCh
	15	5	2035B1	TURRET RUSH # 252420044000070			2	EA	2	
	17	9	30C1057	SCHEMATIC R-4	R-4		0	EA	0	
	20	5	2064-0000-00	CONNECTOR SUB 50-653-0000-31		J1	1	EA	1	
	21	5	UT-85C TP 50 ^	COAX CABLE 50 OHM TIN PLATED			0	FT	0	
	22	5	630-09102	CAPACITOR		C23	1	EA	1	
	23	5	630-09102	CAPACITOR		C24	1	EA	1	
	24	5	2222-119-28479	CAP 47u 63V ELECT PREFERRED		C2	1	EA	1	
	25	5	100B-820-JP500X	CAP 82p 500V CHIP		C3	1	EA	1	
	26	5	100B-330-JP500X	CAP 33p 500V CHIP		C4	1	EA	1	
	27	5	100B-330-JP500X	CAP 33p 500V CHIP		C5	1	EA	1	
	28	5	2222-119-28479	CAP 47u 63V ELECT PREFERRED		C6	1	EA	1	
	29	5	021-18102	CAP 1000u 63V ELECT		C16	1	EA	1	
	30	5	1N5357A	ZENER DIODE SAME AS IN5357B		CR1	1	EA	1	
	31	5	1N5357A	ZENER DIODE SAME AS IN5357B		CR2	1	EA	1	
	33	5	3299W-1-103	POT 10K		R1	1	EA	1	
	34	5	SFR25H392J	RES, 1/2W 5% 3K9		R2	1	EA	1	
	35	5	SFR25H5R1J	RES, 1/2W 5% 5R1	R1	R3	1	EA	1	12
	36	5	3R152P102J	RES 1/4W 5% 1K		R4	1	EA	1	
	37	5	SFR25H5R1J	RES, 1/2W 5% 5R1	R1	R5	1	EA	1	12
	38	5	3R152P102J	RES 1/4W 5% 1K		R6	1	EA	1	
	39	5	3299W-1-103	POT 10K		R7	1	EA	1	
	40	5	SFR25H392J	RES, 1/2W 5% 3K9		R8	1	EA	1	
	41	5	3R152P302J	RES 1/4W 5% 3K		R9	1	EA	1	
	42	5	3R152P302J	RES 1/4W 5% 3K		R10	1	EA	1	
	43	5	MSC154K	THERMISTOR		RT1	1	EA	1	
	44	5	MSC154K	THERMISTOR		RT2	1	EA	1	
2	13	5	20B1500P1	TYPE 3156 THERMOSTAT R-7	R-7		1	EA	1	
2	14	5	SRF3943-2	TRANSISTOR			1	EA	1	
2	15	5	RH25-50 OHM	RES 25W 1% 50 SEE 8154-753			1	EA	1	
2	16	5	10A1564P1	TRANSISTOR CLAMP R-3	R-3		1	EA	1	
2	17	5	10A1566P1	PRESSURE PLATE CLAMP R-3	R-3		1	EA	1	
2	18	5	30C1868P1	HEATSINK R-1	R-1		1	EA	1	
1	13	5	40D2189P1	TOP COVER FOR MX10V R-2	R-2		1	EA	1	
1	14	5	30C1986P1	REAR PANEL R-3	R-3		1	EA	1	
1	15	5	20B2195P1	CPLR MTG BRACKET R-0	R-0		1	EA	1	
1	16	1	30C1829G2	CONTROL BOARD ASSY (MX10V) R-9	R-9		1	EA	1	
2	2	9	30C1829A2	ASSEMBLY DRAWING R1.2	R1.2		0	EA	0	4
2	9	5	30C1829P1	PCB CONTROL R-1	R-1		1	EA	1	
2	10	9	30C1829 SH3-4	PC PATTERN R-1.2	R-1.2		0	EA	0	
2	11	9	30C1829 SH6	SOLDER MASK R-1.2	R-1.2		0	EA	0	
2	12	9	30C1829 SH5	SILKSCREEN R-1.2	R-1.2		0	EA	0	
2	14	9	20B2438	SCHEMATIC R-1	R-1		0	EA	0	
2	22	5	516-AG11D	IC SOCKET 16 PIN			1	EA	1	
2	25	5	ILQ1	IC OPTO ISOLATOR		U3	1	EA	1	
2	28	5	DS1E-SL2-DC12V	RELAY		K1	1	EA	1	
2	29	5	RXE090	PROTECTOR RAYCHEM		F1	1	EA	1	
2	31	5	1N4148	DIODE SWITCHING		CR1	1	EA	1	
2	32	5	1N4148	DIODE SWITCHING		CR2	1	EA	1	
2	42	5	561-2201-080	LED DIALIGHT GREEN		DS3	1	EA	1	
2	43	5	561-2201-080	LED DIALIGHT GREEN		DS4	1	EA	1	
2	44	5	561-2201-080	LED DIALIGHT GREEN		DS5	1	EA	1	
2	69	5	3R152P152J	RES 1/4W 5% 1K5		R17	1	EA	1	
2	74	5	4606X-101-102	RES NET 1K 2%		RN1	1	EA	1	
2	93	5	VA2.5/10-G-5.08	0.2 IN HEADER (MSTB SERIES)		J2	1	EA	1	
2	94	5	2.5/10-ST-5.08	PLUG 0.2 IN MSTB SERIES			1	EA	1	
2	96	5	VA2.5/8-G-5.08	0.2 IN HEADER (MSTB SERIES)		J3	1	EA	1	
2	97	5	2.5/8-ST-5.08	PLUG 0.2 IN MSTB SERIES			1	EA	1	
2	99	5	MLSS100-4	LOCKING HEADER		J4	1	EA	1	
2	111	5	50PT45-01-08NF	SWITCH 50PT45-01-1-08NF		S1	1	EA	1	5
2	113	5	15.501	SWITCH MOMENTARY		S3	1	EA	1	
2	114	5	15.501	SWITCH MOMENTARY		S4	1	EA	1	
2	118	5	16.327	LENS LED YELLOW 16-327-04			2	EA	2	
2	119	5	16.922	LED RECT YELLOW			2	EA	2	

Level					Line	Tp	Component	Description	Rev	ID	Qty	UM	Total	RCh
	2				122	5	16.325	BEZEL EXTENDED BLACK 16.325-09			2	EA	2	
	2				123	5	16.300-07	BUTTON ORANGE (OLD # 16.300)			2	EA	2	
	2				124	5	16.27	EXTENDER FOR EXTENDED BEZELS			2	EA	2	
1					18	5	KE-500AB-1/8	KNOB			1	EA	1	
1					19	1	20B1235G7	PCB METERING ASSY MX10V R-17	R-17		1	EA	1	
	2				10	5	20B1233P1	PCB R-4	R-4		1	EA	1	
	2				11	9	20B1234	PATTERN R-3	R-3		0	EA	0	
	2				12	9	20B1236	SILKSCREEN R-3	R-3		0	EA	0	
	2				14	9	20B1245	SCHEMATIC R-5	R-5		0	EA	0	
	2				15	5	CE100F24-11	END CONNECTORS			1	EA	1	10
	2				17	5	EC100F-11	Cover End IDC 0.1" 11pin Pandu			1	EA	1	10
	2				18	5	MLSS100-11	LOCKING HEADER		J3	1	EA	1	
	2				19	5	1280B	TURRET			2	EA	2	
	2				20	5	2062-0000-00	RECEPTACLE SEE 50-651-0000-31		J1	1	EA	1	
	2				21	5	2062-0000-00	RECEPTACLE SEE 50-651-0000-31		J2	1	EA	1	
	2				22	5	508-AG11D	IC SOCKET 8 PIN			3	EA	3	
	2				23	5	630-09472	CAP 4700p 100V CERAMIC		C1	1	EA	1	
	2				24	5	630-09472	CAP 4700p 100V CERAMIC		C2	1	EA	1	
	2				25	5	681-10689	CAP 68p 100V CERAMIC		C3	1	EA	1	
	2				26	5	681-10689	CAP 68p 100V CERAMIC		C4	1	EA	1	
	2				27	5	681-10689	CAP 68p 100V CERAMIC		C5	1	EA	1	
	2				28	5	681-10689	CAP 68p 100V CERAMIC		C6	1	EA	1	
	2				29	5	344-15474	CAP u4763V FILM SEE 372-21474		C7	1	EA	1	
	2				30	5	344-21104	CAP u1 100V FILM 344-25104		C8	1	EA	1	
	2				32	5	630-09472	CAP 4700p 100V CERAMIC		C10	1	EA	1	
	2				34	5	550-3640-450200	INDUCTOR 10uH SEE 1537-36		L1	1	EA	1	
	2				35	5	550-3640-450200	INDUCTOR 10uH SEE 1537-36		L2	1	EA	1	
	2				37	5	HP5082-2800	DIODE SEE IN5711		CR1	1	EA	1	
	2				38	5	HP5082-2800	DIODE SEE IN5711		CR2	1	EA	1	
	2				39	5	HP5082-2800	DIODE SEE IN5711		CR3	1	EA	1	
	2				40	5	HP5082-2800	DIODE SEE IN5711		CR4	1	EA	1	
	2				42	5	LM358N	IC OP AMP		U1	1	EA	1	
	2				43	5	LM358N	IC OP AMP		U2	1	EA	1	
	2				44	5	LM358N	IC OP AMP		U3	1	EA	1	
	2				45	5	MPS8598	TRANSISTOR PNP GEN PURP		Q1	1	EA	1	
	2				46	5	MPS8598	TRANSISTOR PNP GEN PURP		Q2	1	EA	1	
	2				49	5	B1537-B-3/16-05	SPACER TIN PLATED			4	EA	4	13
	2				52	5	3R152P911J	RES 1/4W 5% 910		R1	1	EA	1	
	2				53	5	3R152P510J	RES 1/4W 5% 51		R2	1	EA	1	
	2				54	5	3R152P911J	RES 1/4W 5% 910		R3	1	EA	1	
	2				55	5	3R152P510J	RES 1/4W 5% 51		R4	1	EA	1	
	2				56	5	3R152P472J	RES 1/4W 5% 4K7		R5	1	EA	1	
	2				57	5	3R152P472J	RES 1/4W 5% 4K7		R6	1	EA	1	
	2				58	5	3R152P472J	RES 1/4W 5% 4K7		R7	1	EA	1	
	2				59	5	3R152P472J	RES 1/4W 5% 4K7		R8	1	EA	1	
	2				60	5	3R152P102J	RES 1/4W 5% 1K		R9	1	EA	1	
	2				61	5	3R152P102J	RES 1/4W 5% 1K		R10	1	EA	1	
	2				62	5	3R152P275J	RES 1/4W 5% 2M7		R11	1	EA	1	
	2				63	5	3R152P275J	RES 1/4W 5% 2M7		R12	1	EA	1	
	2				64	5	3R152P101J	RES 1/4W 5% 100		R13	1	EA	1	
	2				68	5	3R152P122J	RES 1/4W 5% 1K2		R17	1	EA	1	
	2				69	5	3329H-1-102	POT 1K		R18	1	EA	1	
	2				70	5	3R152P122J	RES 1/4W 5% 1K2		R19	1	EA	1	
	2				71	5	3329H-1-102	POT 1K		R20	1	EA	1	
	2				72	5	3R152P104J	RES 1/4W 5% 100K		R21	1	EA	1	
	2				74	5	3R152P104J	RES 1/4W 5% 100K		R23	1	EA	1	
	2				78	5	3R152P513J	RES 1/4W 5% 51K		R27	1	EA	1	
	2				79	5	3R152P513J	RES 1/4W 5% 51K		R28	1	EA	1	
	2				80	5	3R152P102J	RES 1/4W 5% 1K		R29	1	EA	1	
	2				81	5	3329H-1-104	POT 100K		R30	1	EA	1	
	2				83	5	3329H-1-104	POT 100K		R32	1	EA	1	
	2				85	5	3R152P472J	RES 1/4W 5% 4K7		R34	1	EA	1	
	2				86	5	3R152P472J	RES 1/4W 5% 4K7		R35	1	EA	1	

Level					Line	Tp	Component	Description	Rev	ID	Qty	UM	Total	RCh
	2				87	5	3329H-1-103	POT 10K		R36	1	EA	1	
	2				88	5	3R152P101J	RES 1/4W 5% 100		R37	1	EA	1	
	2				89	5	3R152P393J	RES 1/4W 5% 39K		R38	1	EA	1	
	2				91	5	3R152P393J	RES 1/4W 5% 39K		R40	1	EA	1	
	2				92	5	3R152P103J	RES 1/4W 5% 10K		R41	1	EA	1	
	2				93	5	3329H-1-103	POT 10K		R42	1	EA	1	
	2				94	5	3R152P101J	RES 1/4W 5% 100		R43	1	EA	1	
	2				95	5	3R152P393J	RES 1/4W 5% 39K		R44	1	EA	1	
	2				96	5	3R152P100J	RES 1/4W 5% 10		R45	1	EA	1	
	2				97	5	3R152P101J	RES 1/4W 5% 100		R46	1	EA	1	16
	2				101	5	630-09472	CAP 4700p 100V CERAMIC		C11	1	EA	1	
	2				102	5	630-09472	CAP 4700p 100V CERAMIC		C12	1	EA	1	
	2				103	5	630-09472	CAP 4700p 100V CERAMIC		C13	1	EA	1	
	2				105	5	3R152P123J	RES 1/4W 5% 12K		R31	1	EA	1	14
	2				106	5	3R152P123J	RES 1/4W 5% 12K		R33	1	EA	1	14
	2				108	5	3329H-1-102	POT 1K		R39	1	EA	1	16
1					20	5	30C1885P1	FAN BRACKET R-2	R-2		1	EA	1	
1					21	1	20B534G6	DIR CPLR QUAD CPLR LB ASM R20	R20		1	EA	1	
	2				10	5	1590B	HAMMOND DIECAST BOX			0	EA	0	
	2				16	4	20B533P3	BOX REWORK R-3	R-3		1	EA	1	
	3				1	5	1590B	HAMMOND DIECAST BOX			1	EA	1	
	2				19	1	10A1942G1	QUAD DIR CPLR PCB LB ASSY R-3	R-3		1	EA	1	
	3				1	9	10A1942A1	ASSEMBLY DRAW 50-100MHZ R-0.2	R-0.2		0	EA	0	
	3				10	4	10A1942P1	PCB QUAD DIR COUPLER R-0	R-0		1	EA	1	
		4			1	5	250-GX0600-5511	0.060" +/- 0.002" 1oz 36X48			12	IN	12	
	3				11	5	PR37J 51 OHMS	RES 1.6W 5% 51		R1	1	EA	1	
	3				12	5	PR37J 51 OHMS	RES 1.6W 5% 51		R2	1	EA	1	
	3				13	5	9C12063A51R0JL	RESISTOR 51R 1/4W 5% CHIP		R3	1	EA	1	
	3				14	5	9C12063A51R0JL	RESISTOR 51R 1/4W 5% CHIP		R4	1	EA	1	
	3				15	5	B1533-B-5/16-05	SPACER TIN PLATED			4	EA	4	
	3				17	5	10A584P2	COIL -#16 GA R-2	R-2	L1	1	EA	1	
	3				18	5	10A584P2	COIL -#16 GA R-2	R-2	L2	1	EA	1	
	3				19	5	10A584P2	COIL -#16 GA R-2	R-2	L3	1	EA	1	
	3				20	5	10A584P2	COIL -#16 GA R-2	R-2	L4	1	EA	1	
	3				24	5	681-09398	CAP 3p9 100V CERAMIC		C1	1	EA	1	3
	3				25	5	681-09398	CAP 3p9 100V CERAMIC		C2	1	EA	1	3
	3				26	5	681-09478	CAP 4p7 100V CERAMIC		C3	1	EA	1	3
	3				27	5	681-09478	CAP 4p7 100V CERAMIC		C4	1	EA	1	3
	2				25	5	UG-58A/U	CONNECTOR Sub 82-97		J3	1	EA	1	20
	2				26	5	UG-58A/U	CONNECTOR Sub 82-97		J4	1	EA	1	
	2				40	5	UG-1098	CONNECTOR Sub 31-222		J1	1	EA	1	
	2				41	5	UG-1098	CONNECTOR Sub 31-222		J2	1	EA	1	
	2				42	5	UG-1098	CONNECTOR Sub 31-222		J5	1	EA	1	
	2				43	5	UG-1098	CONNECTOR Sub 31-222		J6	1	EA	1	
1					23	5	HA15-0.9-A	CONTROL P/SUPPLY 12V, 0.9A			1	EA	1	
1					24	5	HD48-3A	POWER SUPPLY 48V 3A NCR X 1			1	EA	1	
1					25	5	2031-5005-00	CONNECTOR / SMA			3	EA	3	
1					26	5	MDL3	FUSE 3 AMP 250V SLO			1	EA	1	
1					27	5	216B8880P31	METER NCR X 1 R-13	R-13		1	EA	1	
1					29	5	86350	CONNECTOR BNC BULKHEAD			3	EA	3	
1					30	5	6J4	LINE FILTER, 120/240V			1	EA	1	
1					31	5	GFT-6	TERMINAL BOARD			1	EA	1	
1					32	5	HKP	FUSEHOLDER			1	EA	1	
1					33	5	MC48B3	FAN			1	EA	1	
1					34	5	EC100F-4	Cover End IDC 0.1" 4pin Pandui			2	EA	2	
1					35	5	82-5370	CONNECTOR			1	EA	1	
1					36	5	31-371	CONNECTOR			4	EA	4	
1					37	5	2001-5032-00	CONNECTOR			5	EA	5	
1					38	5	2.5/8-ST-5.08	PLUG 0.2 IN MSTB SERIES			1	EA	1	
1					39	5	2.5/10-ST-5.08	PLUG 0.2 IN MSTB SERIES			1	EA	1	
1					40	5	MDL1/4	FUSE-1/4A 250V SLO BLO			1	EA	1	
1					44	9	30C1987	WIRING DIAGRAM R-2	R-2		0	EA	0	
1					46	1	20B704G1	BANDPASS FILTER ASSY R-3	R-3		1	EA	1	

Level					Line	Tp	Component	Description	Rev	ID	Qty	UM	Total	RCh
	2				1	9	20B704P1	BANDPASS FILTER ASM DWG R-1	R-1		0	EA	0	
	2				10	5	1590B	HAMMOND DIECAST BOX			0	EA	0	
	2				11	4	20B705P1	BOX REWORK R-1	R-1		1	EA	1	
		3			1	5	1590B	HAMMOND DIECAST BOX			1	EA	1	
	2				12	5	10A234P1	FILTER BOX MOUNTING BRKT R-0	R-0		2	EA	2	
	2				13	5	PR-58	POP RIVET			4	EA	4	
	2				14	5	#4	HARNES			5	EA	5	
	2				15	5	6-32 1-1/2 SCRW	SCREW			4	EA	4	
	2				16	5	#6 INT	LOCKWASHER			4	EA	4	
	2				22	9	10A769	SCHEMATIC			0	EA	0	
	2				23	5	5402	CAPACITOR 5402PC			1	EA	1	
	2				24	5	5402	CAPACITOR 5402PC			1	EA	1	
	2				25	5	5402	CAPACITOR 5402PC			1	EA	1	
	2				26	5	5402	CAPACITOR 5402PC			1	EA	1	
	2				27	5	5402	CAPACITOR 5402PC			1	EA	1	
	2				30	5	10A766P1	AIR COIL-6T 14GA 3/8" 0 R-1	R-1		1	EA	1	
	2				31	5	10A766P1	AIR COIL-6T 14GA 3/8" 0 R-1	R-1		1	EA	1	
	2				32	5	10A766P1	AIR COIL-6T 14GA 3/8" 0 R-1	R-1		1	EA	1	
	2				33	5	10A766P1	AIR COIL-6T 14GA 3/8" 0 R-1	R-1		1	EA	1	
	2				34	5	10A766P2	AIR COIL 8T 18GA 5/16" R-1	R-1		1	EA	1	
	2				38	5	2056-0000-00	CONNECTOR			1	EA	1	
	2				39	5	2056-0000-00	CONNECTOR			1	EA	1	
1					48	5	EC100F-11	Cover End IDC 0.1" 11pin Pandu			1	EA	1	
1					49	5	1N4001	DIODE GEN PURP		CR1	1	EA	1	
1					50	5	S87R5D2B1D1-12	RELAY POTTER & BRUMFIELD		K1	1	EA	1	
1					55	5	554148	FAN GUARD ROTRON			1	EA	1	
1					57	9	RL10A2061G1	RUNNING LIST R-4	R-4		0	EA	0	
1					61	5	8835	SPACER			4	EA	4	
1					64	5	CE100F24-11	END CONNECTORS			1	EA	1	
1					65	5	CE100F24-4	END CONNECTORS			2	EA	2	
1					67	5	10A2075P1	KEEPER PLATE R-1	R-1		1	EA	1	
1					68	5	10A2076P1	KEEP PLATE (PWR SUPPLY) R-1	R-1		2	EA	2	
1					70	5	10A2077P1	SHEILD R-1	R-1		1	EA	1	
1					72	5	17250	CORDSET,#18 10A/250V INT'L/USA			1	EA	1	
1					75	1	10A1255G2	PIN ATTENUATOR ASSY MX10V R-7	R-7		1	EA	1	
	2				10	5	10A1253P1	PCB PIN ATTENUATOR R-3	R-3		1	EA	1	
	2				11	9	10A1254	P.C. PATTERN R-3	R-3		0	EA	0	
	2				12	9	10A1256	SILKSCREEN R-3	R-3		0	EA	0	
	2				14	9	20B1287	SCHEMATIC R-3	R-3		0	EA	0	
	2				17	5	B1533-B-1/4-05	SPACER TIN PLATED			4	EA	4	6
	2				18	5	508-AG11D	IC SOCKET 8 PIN			1	EA	1	
	2				19	5	1280B	TURRET			1	EA	1	
	2				20	5	2062-0000-00	RECEPTACLE SEE 50-651-0000-31		J1	1	EA	1	
	2				21	5	2062-0000-00	RECEPTACLE SEE 50-651-0000-31		J2	1	EA	1	
	2				22	5	MLSS100-4	LOCKING HEADER		J3	1	EA	1	
	2				23	5	630-09472	CAP 4700p 100V CERAMIC		C1	1	EA	1	
	2				24	5	344-21105	CAP 1u 100V FILM SEE 344-25105		C2	1	EA	1	
	2				25	5	630-09472	CAP 4700p 100V CERAMIC		C3	1	EA	1	
	2				26	5	030-38109	CAP 10u 63V ELECT		C4	1	EA	1	
	2				27	5	630-09472	CAP 4700p 100V CERAMIC		C5	1	EA	1	
	2				28	5	630-09472	CAP 4700p 100V CERAMIC		C6	1	EA	1	
	2				29	5	630-09472	CAP 4700p 100V CERAMIC		C7	1	EA	1	
	2				30	5	630-09472	CAP 4700p 100V CERAMIC		C8	1	EA	1	
	2				31	5	630-09472	CAP 4700p 100V CERAMIC		C9	1	EA	1	
	2				32	5	344-55103	CAP 10n 400V FILM 344-51103		C10	1	EA	1	
	2				33	5	630-09472	CAP 4700p 100V CERAMIC		C11	1	EA	1	
	2				34	5	630-09472	CAP 4700p 100V CERAMIC		C12	1	EA	1	
	2				35	5	200B-104-MP50X	CAP u1 50V CHIP(ORDER MP50M)		C13	1	EA	1	
	2				38	5	10A212P1	COIL 7t R-6	R-6	L1	1	EA	1	
	2				39	5	10A212P1	COIL 7t R-6	R-6	L2	1	EA	1	
	2				42	5	LM358N	IC OP AMP		U2	1	EA	1	
	2				45	5	HP50823081	DIODE PIN		CR1	1	EA	1	
	2				46	5	HP50823081	DIODE PIN		CR2	1	EA	1	

Level						Line	Tp	Component	Description	Rev	ID	Qty	UM	Total	RCh
	2					47	5	HP50823081	DIODE PIN		CR3	1	EA	1	
	2					48	5	1N914	DIODE SWITCHING		CR4	1	EA	1	
	2					49	5	1N914	DIODE SWITCHING		CR5	1	EA	1	
	2					52	5	MPS8598	TRANSISTOR PNP GEN PURP		Q1	1	EA	1	
	2					55	5	3R152P754J	RES 1/4W 5% 750K		R1	1	EA	1	
	2					56	5	3R152P103J	RES 1/4W 5% 10K		R2	1	EA	1	
	2					57	5	3R152P562J	RES 1/4W 5% 5K6		R3	1	EA	1	
	2					58	5	3R152P103J	RES 1/4W 5% 10K		R4	1	EA	1	
	2					59	5	3329H-1-103	POT 10K		R5	1	EA	1	
	2					60	5	3R152P754J	RES 1/4W 5% 750K		R6	1	EA	1	
	2					61	5	3R152P431J	RES 1/4W 5% 430		R7	1	EA	1	
	2					62	5	3R152P112J	RES 1/4W 5% 1K1		R8	1	EA	1	
	2					63	5	3R152P754J	RES 1/4W 5% 750K		R9	1	EA	1	
	2					64	5	3R152P202J	RES 1/4W 5% 2K		R10	1	EA	1	
	2					65	5	3R152P202J	RES 1/4W 5% 2K		R11	1	EA	1	
	2					66	5	3R152P754J	RES 1/4W 5% 750K		R12	1	EA	1	
	2					67	5	3R152P754J	RES 1/4W 5% 750K		R13	1	EA	1	
	2					68	5	3R152P754J	RES 1/4W 5% 750K		R14	1	EA	1	
	2					69	5	3R152P201J	RES 1/4W 5% 200		R15	1	EA	1	
	2					70	5	3R152P201J	RES 1/4W 5% 200		R16	1	EA	1	
	2					71	5	3R152P201J	RES 1/4W 5% 200		R17	1	EA	1	
	2					72	5	3R152P202J	RES 1/4W 5% 2K		R18	1	EA	1	
	2					73	5	3R152P754J	RES 1/4W 5% 750K		R19	1	EA	1	
	2					74	5	3R152P471J	RES 1/4W 5% 470		R20	1	EA	1	
	2					75	5	3R152P103J	RES 1/4W 5% 10K		R21	1	EA	1	
	2					76	5	3R152P754J	RES 1/4W 5% 750K		R22	1	EA	1	
End of parts list															