

SECTION 6

PARTS LIST

6.1 INTRODUCTION

The purpose of this parts list, prepared by Wulfsberg Electronics, Inc., is for identification, requisition and issuance of parts for the RT-138. Part numbers listed in this parts list meet critical equipment design specification requirements. Use only the part number specified in the parts list for replacement of parts.

6.2 EXPLANATION OF PARTS LIST

6.2.1 DETAILED PARTS LIST

1. CKT SYMBOL: This column contains all electrical/ electronic components used in the RT-138 with their component designators listed in alpha-numeric sequence.
2. DESCRIPTION: This column lists the part description and tolerances where applicable.
3. WULFSBERG PART NUMBER: This column contains the Wulfsberg Electronics, Inc. part numbers. The WEI part numbering system consists of ten digits as follows: three-digit family number, four digit serial number, and a three digit dash number.
4. ASSY QTY: The quantity of that part used in the particular assembly is listed in this column. Unless otherwise specified, a distinct entity item is listed as EA (each).
5. VENDOR CODE: The part manufacturer's Federal Supply Code is listed in this column for standard industry parts. The WEI Federal Supply Code (54001) is indicated on all special items.
6. VENDOR PART NUMBER: The manufacturer's part number is listed in this column for standard industry parts. For parts that show the WEI (54001) vendor code, this column will be left blank.

6.2.2 HOW TO USE THIS PARTS LIST

1. See Section 5 for module assembly numbers and module locator drawing.
2. Determine the component or components in question from the proper schematic.
3. Observe the proper reference designator for the component from the schematic.
4. Turn to the Parts List and locate the reference designator found in steps 2 and 3.

6.2.3 MANUFACTURER'S CODE, NAME AND ADDRESS

<u>CODE</u>	<u>MANUFACTURER</u>
00779	Amp, Inc. P. O. Box 3608 Harrisburg, PA 17105
01121	Allen-Bradley Company 1201-2nd Street South Milwaukee, WI 53204
01295	Texas Instruments, Inc. P. O. Box 5012 13500 North Central Expressway Dallas, TX 75222
02289	Hi-G, Inc. 580 Spring Street Windsor Locks, CT 06096
02735	RCA Corporation Solid State Division Route 202 Somerville, NJ 08876
03508	General Electric Company Semiconductor Products Department Electronics Park Syracuse, NY 13201
03911	Clairex Electronics 560 South 3rd Street Mount Vernon, NY 10050
04713	Motorola, Inc. 5005 East McDowell Road Phoenix, AZ 85036

6.2.3 MANUFACTURER'S CODE, NAME AND ADDRESS (cont)

<u>CODE</u>	<u>MANUFACTURER</u>
07233	Cinch-Graphic TRW Electronic Components 200 South Turnbull Canyon Road City of Industry, CA 91744
07263	Fairchild Semiconductor 464 Ellis Steet Mountain View, CA 94042
08530	Reliance Mica Corporation 342-39th Street Brooklyn, NY 11232
11402	Hisonics, Inc. 249 North Troost Olathe, KS 66061
12020	Ovenaire Division Walter Kidde and Company, Inc. P. O. Drawer 1528 706 Forrest Street Charlottesville, VA 22902
13103	Thermalloy Company, Inc. P. O. Box 34829 2021 West Valley View Lane Dallas, TX 75234
14655	Cornell-Dubilier Electronics Division of Federal Pacific Electric Co. 150 Avenue L Newark, NJ 07101
14752	Electro Cube, Inc. 1710 South Del Mar Avenue San Gabriel, CA 91776
15542	Mini-Circuits Laboratory 2913 Quentin Road Brooklyn, NY 11229

6.2.3 MANUFACTURER'S CODE, NAME AND ADDRESS (cont)

<u>CODE</u>	<u>MANUFACTURER</u>
16733	Cablewave Systems, Inc. 60 Dodge Avenue North Haven, CT 06473
17117	Electronic Moulding Corporation 96 Mill Street Woonsocket, RI 02895
17540	Alpha Industries, Inc. 20 Sylvan Road Woburn, MA 01801
18324	Signetics Corporation 811 East Arques Sunnyvale, CA 94086
18796	Erie Technological Products, Inc. 1900 West College Avenue State College, PA 16801
18915	Birtcher Corporation The Industrial Division 4371 Valley Boulevard Los Angeles, CA 90032
22701	Bestran Corporation Dilectron Division 2669 South Myrtle Avenue Monrovia, CA 91016
24226	Gowanda Electronics Corporation 179 Broadway Road Gowanda, NY 14070
24324	Russell Industries, Inc. 96 Station Plaza Lynbrook, NY 11563
25088	Siemens Corporation 186 Wood Avenue South Iselin, NJ 14070

6.2.3 MANUFACTURER'S CODE, NAME AND ADDRESS (cont)

<u>CODE</u>	<u>MANUFACTURER</u>
27014	National Semiconductor Corporation 2900 San Ysidro Way Santa Clara, CA 95091
27735	F-Dyne Electronics Company 449 Howard Avenue Bridgeport, CT 06605
28198	Positronic Industries, Inc. 423 North Campbell Ave. Springfield, MO 65806
31433	Union Carbide Corporation Electronics Division Highway 276 Southeast Greenville, SC 29060
32997	Bourns, Inc. 2100 Columbia Avenue Riverside, CA 92507
50434	Hewlett-Packard Company HPA Division 620 Page Mill Road Palo Alto, CA 94304
51406	Murata Corporation of America Two Westchester Plaza Elmsford, NY 10532
51642	Centre Engineering, Inc. 2820 East College Avenue State College, PA 16801
52072	Circuit Assembly Corporation 3169 Redhill Avenue Costa Mesa, CA 92626
52763	Stettner Electronics, Inc. P. O. Box 21947 6135 Airways Boulevard Chattanooga, TN 37421

6.2.3 MANUFACTURER'S CODE, NAME AND ADDRESS (cont)

<u>CODE</u>	<u>MANUFACTURER</u>
53174	APX Plastics, Inc. 3407 Dalsworth Street Arlington, TX 76011
54001	Wulfsberg Electronics, Inc. 11300 West 89th Street Overland Park, KS 66214
56187	Sokol Crystal Products, Inc. 121 Water Street Mineral Point, WI 46750
57771	Stimpson, Edwin B. Company, Inc. 900 Sylvan Avenue Bayport, NY 11705
58712	USECO An Affiliate of United States Service Equipment Company 1152 Park Avenue Murfreesboro, TN 37130
71468	ITT Cannon Electric 666 East Dyer Road Santa Ana, CA 92702
71590	Centralab Electronics A North American Philips Company 7158 Merchant Avenue El Paso, TX 79915
73899	JFD Electronics Corporation 15th at 62th Street Brooklyn, NY 11219
74970	E. F. Johnson Company 299-10th Avenue Southwest Waseca, MN 56093
75915	Littlefuse, Inc. 800 East Northwest Highway Des Plaines, IL 60016

6.2.3 MANUFACTURER'S CODE, NAME AND ADDRESS (cont)

<u>CODE</u>	<u>MANUFACTURER</u>
77342	AMF, Inc. Potter and Brumfield Division 1200 East Broadway Princeton, IN 47570
77820	Bendix Corporation The Electronics Components Division Sherman Avenue Sidney, NY 13838
79963	Zierick Manufacturing Company Radio Circle Mount Kisco, NY 10549
82389	Switchcraft, Inc. 5555 North Elston Avenue Chicago, IL 60630
82413	Precision Tube Company, Inc. Wissahickon Avenue and Church Road North Wales, PA 19454
83330	Smith, Herman H., Inc. 812 Snediker Avenue Brooklyn, NY 11207
86298	Seastrom Manufacturing Company, Inc. 701 Sonora Avenue Glendale, CA 91201
88407	Bulova Watch Company, Inc. Electronics Division 61-20 Woodside Avenue Woodside, NY 11377
91418	Radio Materials Company Division of P. R. Mallory and Company, Inc. 4242 West Bryn Mawr Chicago, IL 60646
91637	Dale Electronics P. O. Box 609 Columbus, NE 68601

6.2.3 MANUFACTURER'S CODE, NAME AND ADDRESS (cont)

<u>CODE</u>	<u>MANUFACTURER</u>
91836	Kings Electronics Company, Inc. 40 Marbledale Road Tuckahoe, NY 10707
95121	Quality Components, Inc. P. O. Box 113 St. Marys, PA 15857
95146	Alco Electronic Products, Inc. P. O. Box 1348 Lawrence, MA 01842
98291	Sealectro Corporation Mamaroneck, NY 10543
99800	American Precision Industries Delevan Division 270 Quaker Road East Aurora, NY 14052

6.3 PARTS LIST

6.3.1 RT-138 TRANSCEIVER

CKT SYMBOL	DESCRIPTION	WULFSBERG PART NUMBER	400-0102-00X REV. D				VENDOR CODE	VENDOR PART NUMBER
			-000	-001	-002	-003		
A1	CHASSIS (STD)	300-2240-000	01	01	01	00	54001	
A1	CHASSIS (HI SENS)	300-2240-001	00	00	00	01	54001	
A2	FLEXCOMM POWER SUPPLY	300-2183-000	01	01	01	01	54001	
A3	FLEXCOMM AUDIO BOARD	300-2181-000	01	01	01	01	54001	
*A4	TS-32 GD TN MODULE	300-1046-000	00	00	01	00	54001	
A5	NOT USED							
A6	NOT USED							
A7	R/T ASSY (STD)	300-2239-000	01	01	01	00	54001	
A7	R/T ASSY (HI SENS)	300-2239-001	00	00	00	01	54001	
A8	GUARD RECEIVER	300-2241-000	00	01	01	00	54001	
A9	SYNTHESIZER ASSY	300-2242-000	01	01	01	01	54001	
	RT-30 BOTTOM COVER	146-0514-001	01	01	01	01	54001	
	RT-30 TOP COVER	146-0515-001	01	01	01	01	54001	
	SIDETONE TAG	156-0212-000	01	01	01	01	54001	
	GD RCVR FREQ LABEL	156-0244-000	00	01	01	00	54001	
	RT-138 S/N TAG	156-0258-000	01	01	01	01	54001	
	DOC TAG	156-0259-000	01	01	01	01	54001	
	SCREW, 4-40 x 3/16 FHP	188-0201-006	08	08	08	08	54001	
	SCREW, 4-40 x 1/4 SEMS	188-0208-008	16	20	22	16	54001	

*SEE SECTION 7.2 FOR TS-32 PARTS LIST



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6.3.2 RT-138 CHASSIS (A1)

CKT SYMBOL	DESCRIPTION	WULFSBERG PART NUMBER	300-2240-00X REV. D		VENDOR CODE	VENDOR PART NUMBER
			-000	-001		
C1	CAP, TANT 1.0UF 100V	195-0107-039	01	01	31433	T110B105M100AS
C2 THROUGH C5	CAP, MYLAR 0.1UF	204-0002-000	04	04	27735	MPE21-.01-100-5
C6	CAP, ALUM 470UF 40V	196-0006-000	01	01	25088	470/40/82000
C7 THROUGH C11	CAP, DISC-CER 470PF	208-0006-000	05	05	71590	CE-471
CR1	1N4002 RECTIFIER	106-5009-000	02	02	04713	1N4002
CR2	1N4002 RECTIFIER	106-5009-000	02	02	04713	1N4002
J1	JACK, 24-61P BOX MTG, SOLDER	129-2136-000	01	01	71468	KPT02A-24-61P
J2	10 POS PC CONN	129-2023-000	02	02	07233	50-10A-20
J3	2/22 POS PC CONN	129-2032-000	01	01	07233	50-44A-30
J4	2/18 POS PC CONN	129-2026-000	02	02	07233	50-36A-30
J5	2/18 POS PC CONN	129-2026-000	02	02	07233	50-36A-30
J6	22 POS PC CONN	129-2027-000	01	01	07233	50-22A-20
J7	18 POS PC CONN	129-2006-000	01	01	07233	50-18A-20
J8	10 POS PC CONN	129-2023-000	02	02	07233	50-10A-20
K1	RELAY, DPDT, 24V, 5A	131-0004-000	01	01	77342	R10-E1-X2-V700
L1	850UH TOROID CHOKE	118-1094-000	01	01	11402	06-3194-00
R1	RESISTOR, 3.0 OHM, 10W, 5%	232-0027-000	01	01	91637	HLM-10-10Z,3+5%
R2	RESISTOR, 9.0 OHM, 20W, 5%	232-0032-000	01	01	91637	HLM-20-10Z,9+5%
R3	RESISTOR, 15 OHM, 10W, 5%	232-0031-000	01	01	91637	HLM-10-10Z,15+5%
U1	7815, 15V REG, T0-220	106-7113-000	02	02	07263	μA7815UC
U2	7815, 15V REG, T0-220	106-7113-000	02	02	07263	μA7815UC
	CERAMIC INSUL TERM	107-0012-000	03	03	17117	2308-91-9



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6.3.2 RT-138 CHASSIS (A1) (cont.)

CKT SYMBOL	DESCRIPTION	WULFSBERG PART NUMBER	300-2240-00X REV. D		VENDOR CODE	VENDOR PART NUMBER
			-000	-001		
	TERMINAL, INSUL FEEDTHRU	107-0024-000	05	05	98291	011-2055
	NO. 4 GROUND LUG	109-0004-000	22	22	83330	1485-4
	NO. 4 GROUND LUG, LONG SHANK	109-0008-000	02	02	79963	501-120
	SOLID COAX	123-0001-000	01	01	16733	810106
	PLUG, SMB, 90 DEGREES	129-0027-000	02	00	16733	700 473
	POLARIZING KEY	129-1043-000	06	06	07233	456-07-35-003 (50-PK-2)
	RT-30 REAR PANEL	146-0512-002	01	01	54001	
	RT-30 FRONT PANEL	146-0513-001	01	01	54001	
	RT-30 MAIN CHASSIS	146-0518-002	01	01	54001	
	RT-30 CABLE SHIELD	146-0527-002	01	01	54001	
	CV-28A COVER	146-0584-001	01	01	54001	
	RT-138 CONN GND STRAP	146-0638-001	02	02	54001	
	HANDLE, 4-3/8 IN	146-0695-005	01	01	54001	
	MOD STATUS TAG	156-0100-000	01	01	54001	
	7/8 IN GROMMET	179-0011-000	01	01	83330	2187
	1/2 IN CABLE CLAMP	180-0006-000	01	01	54001	
	TOROID RETAINER	180-0010-000	01	01	54001	
	SCREW, 4-40 x 5/16 PHP	188-0200-010	06	06	54001	
	SCREW, 4-40 x 1/2 PHP	188-0200-016	12	12	54001	
	SCREW, 4-40 x 5/8 PHP	188-0200-020	02	02	54001	
	SCREW, 4-40 x 1-1/8 PHP	188-0200-036	04	04	54001	
	SCREW, 4-40 x 3/16 FHP	188-0201-006	03	03	54001	
	SCREW, 4-40 x 1/4 FHP	188-0201-008	01	01	54001	
	SCREW, 4-40 x 5/16 FHP	188-0201-010	01	01	54001	



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6.3.2 RT-138 CHASSIS (A1) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>300-2240-00X REV. D</u>		<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
			<u>-000</u>	<u>-001</u>		
	SCREW, 4-40 x 1/2 FHP	188-0201-016	06	06	54001	
	SCREW, 4-40 x 5/8 FHP	188-0201-020	01	01	54001	
	SCREW, 4-40 x 1/4 SEMS	188-0208-008	09	09	54001	
	SCREW, 10-32 x 1/2 FHP	188-0401-016	02	02	54001	
	NUT, 3-48 x 3/16	188-2150-000	01	01	54001	
	NUT, 4-40 x 3/16	188-2200-000	06	06	54001	
	NUT, 4-40 x 1/4 KEP	188-2202-000	08	08	54001	
	WASHER, SPLITLOCK NO.3	188-4150-000	01	01	54001	
	WASHER, SPLITLOCK NO.4	188-4200-000	10	10	54001	
	WASHER, FLAT NO.4	188-4201-000	09	09	54001	
	WASHER, EXT STARLOCK, NO.4	188-4205-000	15	15	54001	
	ANGLE BRKT, NO.3 HOLE	189-0006-004	01	01	54001	
	RUBBER WASHER, 0.750 DIA	190-0021-000	01	01	54001	
	SPCR, 0.31 OD x 0.12 ID x 0.19 L	191-0019-001	02	02	28198	10R5-04-X3A
	NYLON CARD GUIDE	246-0040-000	02	02	18915	26-8

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6.3.3 FLEXCOMM POWER SUPPLY (A2)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
A2	POWER SUPPLY REV.E	300-2183-000	01	54001	
C1	CAP, MONO-CER 470PF X7R	209-2471-112	01	31433	C320C471M2R5CA
C2 THROUGH C4					
	CAP, TANT 4.7UF 50V	195-0477-026	08	31433	T110B475K050AS
C5	CAP, POLYCARB 0.022UF	205-0002-000	01	27735	PC-21-.022-50-5
C6	CAP, MONO-CER 0.01UF X7R	198-0008-000	06	31433	C315C103K5R5CA
C7	CAP, TANT 1.0UF 35V	195-0107-035	01	31433	T110A105M035AS
C8	CAP, MONO-CER 0.47UF X7R	208-0043-000	02	31433	C330C474K5R5CA
C9	CAP, MONO-CER 0.47UF X7R	208-0043-000	02	31433	C330C474K5R5CA
C10	CAP, TANT 4.7UF 50V	195-0477-026	08	31433	T110B475K050AS
C11	NOT USED				
C12	NOT USED				
C13	CAP, ALUM 470UF 40V	196-0006-000	02	25088	470/40/82000
C14	CAP, TANT 4.7UF 50V	195-0477-026	08	31433	T110B475K050AS
C15	CAP, MYLAR 0.1UF	204-0002-000	02	27735	MPE-21-.1-100-5
C16	CAP, TANT 4.7UF 50V	195-0477-026	08	31433	T110B475K050AS
C17	CAP, TANT 4.7UF 50V	195-0477-026	08	31433	T110B475K050AS
C18	CAP, MYLAR 0.1UF	204-0002-000	02	27735	MPE-21-.1-100-5
C19	CAP, TANT 4.7UF 50V	195-0477-026	08	31433	T110B475K050AS
C20	CAP, ALUM 470UF 40V	196-0006-000	02	25088	470/40/82000
C21	CAP, TANT 15UF 20V	195-0156-034	01	31433	T110B156M020AS
C22 THROUGH C26					
	CAP, MONO-CER 0.01UF X7R	198-0008-000	06	31433	C315C103K5R5CA
CR1	1N914	106-5007-000	03	07263	1N914
CR2	1N914	106-5007-000	03	07263	1N914
CR3	1N914	106-5007-000	03	07263	1N914
CR4 THROUGH CR10					
	A115A RECTIFIER	106-5004-000	07	03508	A115A

6.3.3 FLEXCOMM POWER SUPPLY (A2) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
CR11	1N4735A 6.2V ZENER	106-4016-000	01	04713	1N4735A
CR12	1N4002 RECTIFIER	106-5009-000	01	04713	1N4002
F1	FUSE, 3A, WIRE LEADS	135-0009-000	01	75915	275 0003
L1	850UH TOROID	118-1094-000	01	11402	06-3194-00
L2	850UH TOROID SHIELDED	118-1095-000	01	11402	26-5281-00
Q1	2N5447 PNP	106-0008-000	01	01295	2N5447
Q2	TIP-116 MED PWR PNP DARL	106-0046-000	02	01295	TIP-116
Q3	TIP-116 MED PWR PNP DARL	106-0046-000	02	01295	TIP-116
Q4	2N3904 NPN	106-0041-000	01	04713	2N3904
R1	RESISTOR, 0.3 OHM 4W	232-0010-000	02	91637	R52-.3 OHM-5%
R2	RESISTOR, 100 OHM 1/4W	230-0103-022	02	01121	RCR07G101KS
R3	RESISTOR, 22K OHM 1/4W	230-0225-022	02	01121	RCR07G223KS
R4	RESISTOR, 1K OHM 1/4W	230-0104-022	02	01121	RCR07G102KS
R5	RESISTOR, 1.8K OHM 1/4W	230-0184-022	01	01121	RCR07G182KS
R6	RESISTOR, 5.23K OHM 1%	231-5234-021	03	91637	RN55D5231F
R7	RESISTOR, 5.23K OHM 1%	231-5234-021	03	91637	RN55D5231F
R8	RESISTOR, 56K OHM 1/4W	230-0565-022	01	01121	RCR07G563KS
R9	RESISTOR, 4.75K OHM 1%	231-4754-021	02	91637	RN55D4751F
R10	RESISTOR, 4.75K OHM 1%	231-4754-021	02	91637	RN55D4751F
R11	RESISTOR, 1K OHM 1/4W	230-0104-022	02	01121	RCR07G102KS
R12	RESISTOR, 22K OHM 1/4W	230-0225-022	02	01121	RCR07G223KS
R13 THROUGH R16					
	RESISTOR, 5.6K OHM 1/4W	230-0564-022	07	01121	RCR07G562KS
R17	RESISTOR, 24.3K OHM 1%	231-2435-021	01	91637	RN55D2432F
R18	RESISTOR, 5.23K OHM 1%	231-5234-021	03	91637	RN55D5231F
R19	RESISTOR, 25.5K OHM 1%	231-2555-021	01	91637	RN55D2552F
R20	RESISTOR, 2.21K OHM 1%	231-2214-021	01	91637	RN55D2211F
R21	RESISTOR, 0.3 OHM 4W	232-0010-000	02	91637	R52-.3 OHM-5%

6.3.3 FLEXCOMM POWER SUPPLY (A2) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
R22	RESISTOR, 100 OHM 1/4W	230-0103-022	02	01121	RCR07G101KS
R23	RESISTOR, 100 OHM 1/2W	230-0103-032	01	01121	RCR20G101KS
R24	RESISTOR, 10 OHM 1/4W	230-0102-022	01	01121	RCR07G100KS
R25 THROUGH R27					
	RESISTOR, 5.6K OHM 1/4W	230-0564-022	07	01121	RCR07G562KS
R28	RESISTOR, ADJ. 1K OHM	233-0015-007	01	32997	3329H-1-102
T1	PWR XFMR, RT-30	118-3010-000	01	11402	24-0586-00
U1	LM3524 PULSE WIDTH MOD	106-7082-000	01	27014	LM3524N
U2	78MG LIN ADJ REG	106-7048-000	01	07263	μA78MGU1C
U3	79MG NEG VOLT REG	106-7081-000	01	07263	μA79MGU1C
	PC RT-30 POWER SUPPLY	108-6091-000	01	54001	
	TO-220 MICA INS	111-0019-000	04	54001	
	RT-30 PWR SUP XSTR HEAT- SINK	146-0575-001	01	54001	
	RT-30 PWR SUP CARD BACK	146-0576-002	01	54001	
	RT-30 P.S. REG HEATSINK	146-0577-001	01	54001	
	PWR SUP SHIELD PLATE	146-0685-002	01	54001	
	TOROID RETAINER	180-0010-000	01	54001	
	SCREW, 2-56 x 5/16 PHP	188-0100-010	02	54001	
	SCREW, 4-40 x 5/16 PHP	188-0200-010	02	54001	
	SCREW, 4-40 x 11/16 PHP	188-0200-022	03	54001	
	SCREW, 4-40 x 7/16 FHP	188-0201-014	02	54001	
	SCREW, 4-40 x 1/4 SEMS	188-0208-008	06	54001	
	NUT, 4-40 x 1/4 KEP	188-2202-000	01	54001	
	WASHER, SPLITLOCK NO.2	188-4100-000	02	54001	
	WASHER, FLAT NO.2	188-4101-000	02	54001	
	WASHER, SPLITLOCK NO.4	188-4200-000	04	54001	
	WASHER, FLAT NO.4	188-4201-000	02	54001	



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6.3.3 FLEXCOMM POWER SUPPLY (A2) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY.</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
	NO.4 NYLON SCREW INSULATOR	190-0017-001	02	54001	
	RUBBER WASHER	190-0021-000	01	54001	
	NO.2 NYLON SCREW INSULATOR	190-0022-000	02	86298	5607-2

6.3.4 AUDIO BOARD (A3)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
A3	AUDIO BOARD REV.G	300-2181-000	01	54001	
C1	CAP, MONO-CER 0.22UF X7R	209-6224-011	07	31433	C330C224K5R5CA
C2	CAP, TANT 15UF 20V	195-0156-034	08	31433	T110B156M020AS
C3	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS
C4 THROUGH C6					
	CAP, DIP-MICA 510PF	199-5112-013	03	14655	CD15FD511J03
C7	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS
C8	CAP, MONO-CER 0.01UF X7R	198-0008-000	06	31433	C315C103K5R5CA
C9	CAP, MONO-CER 0.22UF X7R	209-6224-011	07	31433	C330C224K5R5CA
C10	CAP, MONO-CER 0.22UF X7R	209-6224-011	07	31433	C330C224K5R5CA
C11	CAP, MONO-CER 0.01UF X7R	198-0008-000	06	31433	C315C103K5R5CA
C12	CAP, MONO-CER 0.01UF X7R	198-0008-000	06	31433	C315C103K5R5CA
C13	CAP, MONO-CER 0.22UF X7R	209-6224-011	07	31433	C330C224K5R5CA
C14	CAP, MONO-CER 0.22UF X7R	209-6224-011	07	31433	C330C224K5R5CA
C15 THROUGH C19					
	CAP, POLYCARB 0.01UF	205-0005-000	05	14752	650B1C103G
C20	CAP, TANT 100UF 10V	195-0105-032	02	31433	T110C107M010AS
C21	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS
C22	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS
C23	CAP, MONO-CER 0.1UF X7R	209-6104-011	02	31433	C330C104K1R5CA
C24	CAP, TANT 100UF 10V	195-0105-032	02	31433	T110C107M010AS
C25	CAP, MONO-CER 0.056UF X7R	209-2563-011	03	31433	C320C563K5R5CA
C26	CAP, TANT 15UF 20V	195-0156-034	08	31433	T110B156M020AS
C27	CAP, TANT 6.8UF 20V	195-0687-024	01	31433	T110B685K020AS
C28	NOT USED				
C29	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS
C30	CAP, TANT 15UF 20V	195-0156-034	08	31433	T110B156M020AS
C31	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS



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6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
C32	CAP, POLYCARB 0.47UF	205-0004-000	01	14752	650B1B474J
C33	CAP, MONO-CER 0.22UF X7R	209-6224-011	07	31433	C330C224K5R5CA
C34	CAP, MONO-CER 0.01UF X7R	198-0008-000	06	31433	C315C103K5R5CA
C35	CAP, TANT 15UF 20V	195-0156-034	08	31433	T110B156M020AS
C36	NOT USED				
C37	NOT USED				
C38	CAP, TANT 22UF 35V	195-0226-025	01	31433	T110C226K035AS
C39 THROUGH C41					
	CAP, TANT 15UF 20V	195-0156-034	08	31433	T110B156M020AS
C42	CAP, MONO-CER 0.056UF X7R	209-2563-011	03	31433	C320C563K5R5CA
C43	NOT USED				
C44	CAP, POLYCARB 0.01UF	205-0001-000	02	14752	650B1C103J
C45	CAP, MONO-CER 0.47UF X7R	208-0043-000	02	31433	C330C474K5R5CA
C46	CAP, MONO-CER 0.47UF X7R	208-0043-000	02	31433	C330C474K5R5CA
C47	CAP, MONO-CER 150PF X7R	209-2151-111	17	31433	C320C151K1G5CA
C48	NOT USED				
C49	CAP, MONO-CER 150PF X7R	209-2151-111	17	31433	C320C151K1G5CA
C50 THROUGH C52					
	CAP, MONO-CER 4700PF COG	209-2472-004	08	31433	C320C472G1G5CA
C53	NOT USED				
C54	NOT USED				
C55	CAP, MONO-CER 150PF X7R	209-2151-111	17	31433	C320C151K1G5CA
C56	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS
C57 THROUGH C59					
	CAP, MONO-CER 4700PF COG	209-2472-004	08	31433	C320C472G1G5CA
C60	CAP, MONO-CER 220PF COG	209-2221-100	01	31433	C312C221J1G5CA
C61	CAP, MONO-CER 0.22UF X7R	209-6224-011	07	31433	C330C224K5R5CA
C62	CAP, MONO-CER 1000PF COG	209-2102-100	02	31433	C320C102J1G5CA
C63	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS

6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
C64	CAP, TANT 1.0UF 35V	195-0107-035	05	31433	T110A105M035AS
C65	CAP, POLYCARB 0.01UF	205-0001-000	02	14752	650B1C103J
C66	CAP, MONO-CER 150PF X7R	209-2151-111	17	31433	C320C151K1G5CA
C67	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS
C68	CAP, MONO-CER 470PF X7R	209-2471-112	01	31433	C320C471M2R5CA
C69	CAP, MONO-CER 150PF X7R	209-2151-111	17	31433	C320C151K1G5CA
C70	CAP, MONO-CER 1000PF COG	209-2102-100	02	31433	C320C102J1G5CA
C71	CAP, MONO-CER 0.1UF X7R	209-6104-011	02	31433	C330C104K1R5CA
C72	CAP, MONO-CER 0.056UF X7R	209-2563-011	03	31433	C320C563K5R5CA
C73	CAP, MONO-CER 150PF X7R	209-2151-111	17	31433	C320C151K1G5CA
C74 THROUGH C77					
	CAP, TANT 1.0UF 35V	195-0107-035	05	31433	T110A105M035AS
C78	CAP, TANT 3.3UF 15V	195-0337-023	10	31433	T110A335K015AS
C79	CAP, POLYCARB 0.022UF	205-0002-000	01	27335	PC-21-.022-50-5
C80 THROUGH C84 NOT USED					
C85 THROUGH C90					
	CAP, MONO-CER 150PF X7R	209-2151-111	17	31433	C320C151K1G5CA
C91	CAP, TANT 15UF 20V	195-0156-034	08	31433	T110B156M020AS
C92	CAP, MONO-CER 0.01UF X7R	198-0008-000	06	31433	C315C103K5R5CA
C93 NOT USED					
C94	CAP, MONO-CER 150PF X7R	209-2151-111	17	31433	C320C151K1G5CA
C95	CAP, MONO-CER 4700PF COG	209-2472-004	08	31433	C320C472G1G5CA
C96	CAP, MONO-CER 4700PF COG	209-2472-004	08	31433	C320C472G1G5CA
C97	CAP, MONO-CER 0.01UF X7R	198-0008-000	06	31433	C315C103K5R5CA
C98 THROUGH C101					
	CAP, MONO-CER 150PF X7R	209-2151-111	17	31433	C330C151K1G5CA
CR1	1N914	106-5007-000	45	07263	1N914
CR2	1N914	106-5007-000	45	07263	1N914



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6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
CR3	NOT USED				
CR4	1N914	106-5007-000	45	07263	1N914
CR5	HOT CARRIER DIODE	106-5002-000	02	50434	HP5082-2800
CR6	HOT CARRIER DIODE	106-5002-000	02	50434	HP5082-2800
CR7	1N914	106-5007-000	45	07263	1N914
CR8	1N4738A 8.2V ZENER	106-4007-000	02	04713	1N4738A
CR9 THROUGH CR17	1N914	106-5007-000	45	07263	1N914
CR18	1N4738A 8.2V ZENER	106-4007-000	02	04713	1N4738A
CR19 THROUGH CR50	1N914	106-5007-000	45	07263	1N914
K1	RELAY, DPDT, 12V, 2A	131-0005-000	01	02289	2K-2299-035
L1	4.7UH CHOKE	118-1061-000	01	24226	10/471
Q1	2N3904 NPN	106-0041-000	06	04713	2N3904
Q2	MPS3702 PNP	106-0008-000	05	04713	MPS3702-18
Q3	2N3904 NPN	106-0041-000	06	04713	2N3904
Q4	MPS3702 PNP	106-0008-000	05	04713	MPS3702-18
Q5	2N3904 NPN	106-0041-000	06	04713	2N3904
Q6	2N3904 NPN	106-0041-000	06	04713	2N3904
Q7	MPS3702 PNP	106-0008-000	05	04713	MPS3702-18
Q8	2N3904 NPN	106-0041-000	06	04713	2N3904
Q9	2N3904 NPN	106-0041-000	06	04713	2N3904
Q10	MPS3702 PNP	106-0008-000	05	04713	MPS3702-18
Q11	MPS3702 PNP	106-0008-000	05	04713	MPS3702-18
R1	RESISTOR, 49.9K OHM 1%	231-4995-021	01	91637	RN55D4992F
R2	RESISTOR, 59.0K OHM 1%	231-5905-021	01	91637	RN55D5902F
R3	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R4	RESISTOR, 4.75K OHM 1%	231-4754-021	03	91637	RN55D4751F

6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
R5	RESISTOR, 5.90K OHM 1%	231-5904-021	02	91637	RN55D5901F
R6	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R7	RESISTOR, 5.23K OHM 1%	231-5234-021	02	91637	RN55D5231F
R8	RESISTOR, 5.23K OHM 1%	231-5234-021	02	91637	RN55D5231F
R9	RESISTOR, 23.2K OHM 1%	231-2325-021	01	91637	RN55D2322F
R10	RESISTOR, 73.2K OHM 1%	231-7325-021	01	91637	RN55D7322F
R11	RESISTOR, 48.7K OHM 1%	231-4875-021	01	91637	RN55D4872F
R12	RESISTOR, 147K OHM 1%	231-1476-021	02	91637	RN55D1473F
R13	RESISTOR, 147K OHM 1%	231-1476-021	02	91637	RN55D1473F
R14	RESISTOR, 4.7K OHM 1/4W	230-0474-022	06	01121	RCR07G472KS
R15	RESISTOR, 6.8K OHM 1/4W	230-0684-022	08	01121	RCR07G682KS
R16	RESISTOR, 4.75K OHM 1%	231-4754-021	03	91637	RN55D4751F
R17	RESISTOR, ADJ 50K OHM	233-0010-000	01	32997	3006P-1-503
R18	RESISTOR, 4.75K OHM 1%	231-4754-021	03	91637	RN55D4751F
R19	RESISTOR, 22K OHM 1/4W	230-0225-022	04	01121	RCR07G223KS
R20	RESISTOR, 22.1K OHM 1%	231-2215-021	02	91637	RN55D2212F
R21	RESISTOR, 56.2K OHM 1%	231-5625-021	02	91637	RN55D5622F
R22	RESISTOR, 33.2K OHM 1%	231-3325-021	03	91637	RN55D3322F
R23	RESISTOR, 150K OHM 1%	231-1506-021	02	91637	RN55D1503F
R24	RESISTOR, 499K OHM 1%	231-4996-021	02	91637	RN55D4993F
R25	RESISTOR, 330K OHM 1/4W	230-0336-022	02	01121	RCR07G334KS
R26	NOT USED				
R27	RESISTOR, 5.90K OHM 1%	231-5904-021	02	91637	RN55D5901F
R28	RESISTOR, 3.92K OHM 1%	231-3924-021	01	91637	RN55D3921F
R29	RESISTOR, 22.1K OHM 1%	231-2215-021	02	91637	RN55D2212F
R30	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R31	RESISTOR, 220K OHM 1/4W	230-0226-022	02	01121	RCR07G224KS

6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
R32	RESISTOR, 150K OHM 1%	231-1506-021	02	91637	RN55D1503F
R33	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R34	RESISTOR, 6.8K OHM 1/4W	230-0684-022	08	01121	RCR07G682KS
R35	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R36	RESISTOR, 1K OHM 1/4W	230-0104-022	06	01121	RCR07G102KS
R37	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R38	RESISTOR, 2.2K OHM 1/4W	230-0224-022	10	01121	RCR07G222KS
R39	RESISTOR, 2.2K OHM 1/4W	230-0224-022	10	01121	RCR07G222KS
R40	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R41	NOT USED				
R42	RESISTOR, 86.6K OHM 1%	231-8665-021	01	91637	RN55D8662F
R43	RESISTOR, 34.8K OHM 1%	231-3485-021	02	91637	RN55D3482F
R44	RESISTOR, 47K OHM 1/4W	230-0475-022	05	01121	RCR07G473KS
R45	RESISTOR, 499K OHM 1%	231-4996-021	02	91637	RN55D4993F
R46	RESISTOR, 10.2K OHM 1%	231-1025-021	01	91637	RN55D1022F
R47	RESISTOR, 140K OHM 1%	231-1406-021	01	91637	RN55D1403F
R48	RESISTOR, 31.6K OHM 1%	231-3165-021	01	91637	RN55D3162F
R49	RESISTOR, 34.8K OHM 1%	231-3485-021	02	91637	RN55D3482F
R50	RESISTOR, 316K OHM 1%	231-3166-021	01	91637	RN55D3163F
R51	RESISTOR, 4.7K OHM 1/4W	230-0474-022	06	01121	RCR07G472KS
R52	RESISTOR, 6.8K OHM 1/4W	230-0684-022	08	01121	RCR07G682KS
R53	RESISTOR, 4.7K OHM 1/4W	230-0474-022	06	01121	RCR07G472KS
R54	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R55	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R56	RESISTOR, 1.5K OHM 1/4W	230-0154-022	01	01121	RCR07G152KS
R57	RESISTOR, ADJ 5K OHM	233-0011-000	05	32997	3006P-1-502
R58	RESISTOR, 47K OHM 1/4W	230-0475-022	05	01121	RCR07G473KS

6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
R59	RESISTOR, ADJ 5K OHM	233-0011-000	05	32997	3006P-1-502
R60	RESISTOR, 39K OHM 1/4W	230-0395-022	01	01121	RCR07G393KS
R61	RESISTOR, 3.3K OHM 1/4W	230-0334-022	01	01121	RCR07G332KS
R62	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R63	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R64	RESISTOR, 3.3 OHM 1/4W	230-0331-022	02	01121	RCR07G3R3KS
R65	RESISTOR, 3.3 OHM 1/4W	230-0331-022	02	01121	RCR07G3R3KS
R66	RESISTOR, 33.2K OHM 1%	231-3325-021	03	91637	RN55D3322F
R67	RESISTOR, 33.2K OHM 1%	231-3325-021	03	91637	RN55D3322F
R68	RESISTOR, 15K OHM 1/4W	230-0155-022	03	01121	RCR07G153KS
R69	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R70	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R71	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R72	RESISTOR, 2.2K OHM 1/4W	230-0224-022	10	01121	RCR07G222KS
R73	RESISTOR, 47K OHM 1/4W	230-0475-022	05	01121	RCR07G473KS
R74	RESISTOR, 100K OHM 1%	231-1006-021	05	91637	RN55D1003F
R75	RESISTOR, 100K OHM 1%	231-1006-021	05	91637	RN55D1003F
R76	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R77	RESISTOR, ADJ 5K OHM	233-0011-000	05	32997	3006P-1-502
R78	RESISTOR, 22K OHM 1/4W	230-0225-022	04	01121	RCR07G223KS
R79	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R80	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R81	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R82	RESISTOR, 1K OHM 1/4W	230-0104-022	06	01121	RCR07G102KS
R83	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R84	RESISTOR, 6.8K OHM 1/4W	230-0684-022	08	01121	RCR07G682KS
R85	RESISTOR, 2.2K OHM 1/4W	230-0224-022	10	01121	RCR07G222KS

6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
R86	RESISTOR, 6.8K OHM 1/4W	230-0684-022	08	01121	RCR07G682KS
R87	RESISTOR, 2.2K OHM 1/4W	230-0224-022	10	01121	RCR07G222KS
R88	RESISTOR, 4.7K OHM 1/4W	230-0474-022	06	01121	RCR07G472KS
R89	RESISTOR, 2.2K OHM 1/4W	230-0224-022	10	01121	RCR07G222KS
R90	RESISTOR, 2.2K OHM 1/4W	230-0224-022	10	01121	RCR07G222KS
R91	NOT USED				
R92	RESISTOR, 22K OHM 1/4W	230-0225-022	04	01121	RCR07G223KS
R93	RESISTOR, 2.2K OHM 1/4W	230-0224-022	10	01121	RCR07G222KS
R94	RESISTOR, 330 OHM 1/4W	230-0333-022	01	01121	RCR07G331KS
R95	RESISTOR, 470 OHM 1/4W	230-0473-022	08	01121	RCR07G471KS
R96	RESISTOR, 100 OHM 1/4W	230-0103-022	03	01121	RCR07G101KS
R97	RESISTOR, 1K OHM 1/4W	230-0104-022	06	01121	RCR07G102KS
R98	RESISTOR, 100 OHM 1/4W	230-0103-022	03	01121	RCR07G101KS
R99	RESISTOR, ADJ 5K OHM	233-0011-000	05	32997	3006P-1-502
R100	RESISTOR, 100 OHM 1/4W	230-0103-022	03	01121	RCR07G101KS
R101	RESISTOR, 27K OHM 1/4W	230-0275-022	02	01121	RCR07G273KS
R102	RESISTOR, 120K OHM 1/4W	230-0126-022	01	01121	RCR07G124KS
R103	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R104	RESISTOR, 470 OHM 1/4W	230-0473-022	08	01121	RCR07G471KS
R105	RESISTOR, 10.0K OHM 1%	231-1005-021	01	91637	RN55D1002F
R106	RESISTOR, 56.2 OHM 1%	231-5625-021	02	91637	RN55D5622F
R107	RESISTOR, 12.1K OHM 1%	231-1215-021	02	91637	RN55D1212F
R108	RESISTOR, 12.1K OHM 1%	231-1215-021	02	91637	RN55D1212F
R109	NOT USED				
R110	RESISTOR, 301K OHM 1%	231-3016-021	02	91637	RN55D3013F
R111	RESISTOR, 270K OHM 1/4W	230-0276-022	01	01121	RCR07G274KS
R112	RESISTOR, 2.80K OHM 1%	231-2804-021	01	91637	RN55D2801F

6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
R113	RESISTOR, 26.7K OHM 1%	231-2675-021	01	91637	RN55D2672F
R114	NOT USED				
R115	NOT USED				
R116	RESISTOR, 1.82K OHM 1%	231-1824-021	02	91637	RN55D1821F
R117	RESISTOR, 1.82K OHM 1%	231-1824-021	02	91637	RN55D1821F
R118	NOT USED				
R119	RESISTOR, 61.9K OHM 1%	231-6195-021	01	91637	RN55D6192F
R120	RESISTOR, 20.5K OHM 1%	231-2055-021	01	91637	RN55D2052F
R121	RESISTOR, 3.9K OHM 1/4W	230-0394-022	01	01121	RCR07G392KS
R122	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R123	RESISTOR, 6.8K OHM 1/4W	230-0684-022	08	01121	RCR07G682KS
R124	RESISTOR, 680K OHM 1/4W	230-0686-022	01	01121	RCR07G684KS
R125	RESISTOR, 301K OHM 1%	231-3016-021	02	91637	RN55D3013F
R126	RESISTOR, 392K OHM 1%	231-3926-021	02	91637	RN55D3923F
R127	RESISTOR, 475K OHM 1%	231-4756-021	01	91637	RN55D4753F
R128	RESISTOR, 1.8K OHM 1/4W	230-0184-022	01	01121	RCR07G182KS
R129	RESISTOR, 1 MEG OHM 1/4W	230-0107-022	04	01121	RCR07G105KS
R130	RESISTOR, 1 MEG OHM 1/4W	230-0107-022	04	01121	RCR07G105KS
R131	RESISTOR, 330K OHM 1/4W	230-0336-022	02	01121	RCR07G334KS
R132	RESISTOR, 15K OHM 1/4W	230-0155-022	03	01121	RCR07G153KS
R133	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R134	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R135	RESISTOR, 470K OHM 1/4W	230-0476-022	03	01121	RCR07G474KS
R136	RESISTOR, 470K OHM 1/4W	230-0476-022	03	01121	RCR07G474KS
R137	RESISTOR, 220K OHM 1/4W	230-0226-022	02	01121	RCR07G224KS
R138	RESISTOR, 5.6K OHM 1/4W	230-0564-022	05	01121	RCR07G562KS
R139	RESISTOR, 4.7K OHM 1/4W	230-0474-022	06	01121	RCR07G472KS

6.3.4 AUDIO BOARD (A3) (cont.)

CKT SYMBOL	DESCRIPTION	WULFSBERG PART NUMBER	ASSY QTY	VENDOR CODE	VENDOR PART NUMBER
R140	RESISTOR, 1.2K OHM 1/4W	230-0124-022	01	01121	RCR07G122KS
R141	RESISTOR, 470K OHM 1/4W	230-0476-022	03	01121	RCR07G474KS
R142	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R143	RESISTOR, 1 MEG OHM 1/4W	230-0107-022	04	01121	RCR07G105KS
R144	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R145	RESISTOR, 4.7K OHM 1/4W	230-0474-022	06	01121	RCR07G472KS
R146	RESISTOR, 68K OHM 1/4W	230-0685-022	02	01121	RCR07G683KS
R147	RESISTOR, 18K OHM 1/4W	230-0185-022	01	01121	RCR07G183KS
R148	RESISTOR, 68K OHM 1/4W	230-0685-022	02	01121	RCR07G683KS
R149	RESISTOR, 5.6K OHM 1/4W	230-0564-022	05	01121	RCR07G562KS
R150	RESISTOR, 5.6K OHM 1/4W	230-0564-022	05	01121	RCR07G562KS
R151	RESISTOR, 390K OHM 1/4W	230-0396-022	01	01121	RCR07G394KS
R152	RESISTOR, ADJ 5K OHM	233-0011-000	05	32997	3006P-1-502
R153	RESISTOR, 47K OHM 1/4W	230-0475-022	05	01121	RCR07G473KS
R154 THROUGH R159					
	RESISTOR, 470 OHM 1/4W	230-0473-022	08	01121	RCR07G471KS
R160	RESISTOR, 5.6K OHM 1/4W	230-0564-022	05	01121	RCR07G562KS
R161	RESISTOR, 1 MEG OHM 1/4W	230-0107-022	04	01121	RCR07G105KS
R162	RESISTOR LADDER 75K/150K	234-0004-000	01	54001	
R163	RESISTOR PACK, 6.8K OHM	234-0002-000	01	91637	MSP08A01-682G
R164	RESISTOR PACK, 15K OHM	234-0003-000	01	91637	MSP08A01-153G
R165	RESISTOR, 27K OHM 1/4W	230-0275-022	02	01121	RCR07G273KS
R166	RESISTOR, 2.7K OHM 1/4W	230-0274-022	01	01121	RCR07G272KS
R167	RESISTOR, 6.8K OHM 1/4W	230-0684-022	08	01121	RCR07G682KS
R168	RESISTOR, 1K OHM 1/4W	230-0104-022	06	01121	RCR07G102KS
R169	RESISTOR, 6.8K OHM 1/4W	230-0684-022	08	01121	RCR07G682KS
R170	RESISTOR, 15K OHM 1/4W	230-0155-022	03	01121	RCR07G153KS
R171	NOT USED				

6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
R172	RESISTOR, 100K OHM 1%	231-1006-021	05	91637	RN55D1003F
R173	RESISTOR, 100K OHM 1%	231-1006-021	05	91637	RN55D1003F
R174	RESISTOR, 47K OHM 1/4W	230-0475-022	05	01121	RCR07G473KS
R175	RESISTOR, 100K OHM 1%	231-1006-021	05	91637	RN55D1003F
R176	RESISTOR, 100K OHM 1/4W	230-0106-022	12	01121	RCR07G104KS
R177	RESISTOR, 10K OHM 1/4W	230-0105-022	15	01121	RCR07G103KS
R178	RESISTOR, 2.2K OHM 1/4W	230-0224-022	10	01121	RCR07G222KS
R179	RESISTOR, 22K OHM 1/4W	230-0225-022	04	01121	RCR07G223KS
R180	RESISTOR, 5.6K OHM 1/4W	230-0564-022	05	01121	RCR07G562KS
R181	RESISTOR, 1K OHM 1/4W	230-0104-022	06	01121	RCR07G102KS
R182	RESISTOR, 1K OHM 1/4W	230-0104-022	06	01121	RCR07G102KS
T1	AUDIO XFMR, OUTPUT	118-4015-000	01	54001	
T2	AUDIO XFMR, MIKE	118-4014-000	01	54001	
U1	1458 LIN DUAL OPAMP	106-7006-000	06	04713	MC1458CP1
U2	1458 LIN DUAL OPAMP	106-7006-000	06	04713	MC1458CP1
U3	358 LIN DUAL OPAMP	106-7044-000	04	27014	LM358N
U4 THROUGH U6	1458 LIN DUAL OPAMP	106-7006-000	06	04713	MC1458CP1
U7 THROUGH U9	358 LIN DUAL OPAMP	106-7044-000	04	27014	LM358N
U10	4066 CMOS QUAD SW	106-7019-000	02	04713	MC14066BCP
U11	LM380 LIN AUDIO AMP	106-7009-000	01	27014	LM380N
U12	78MG LIN ADJ REG	106-7048-000	01	07263	μA78MGU1C
U13	4049 CMOS HEX INV	106-7047-000	01	04713	MC14049UBCP
U14	CTCSS CUSTOM LSI IC	106-7085-000	01	54001	
U15	1458 LIN DUAL OPAMP	106-7006-000	06	04713	MC1458CP1
U16	4066 CMOS QUAD SW	106-7019-000	02	04713	MC14066BCP
Y1	XTAL, 1.0 MHz CTCSS	139-0060-000	01	88407	110H-3



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6.3.4 AUDIO BOARD (A3) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
	PC, RT-30 AUDIO	108-6090-000	01	54001	
	RUBBER BUMPER, 0.156 HIGH	179-0017-000	01	24324	REC-2061
	SCREW, 4-40 x 1/4 PHP	188-0200-008	02	54001	
	NUT, 4-40 x 1/4 KEP	188-2202-000	01	54001	
	WASHER, INT STAR LOCK NO.4	188-4206-000	01	54001	
	ANGLE BRKT 0.166 HOLE	189-0006-003	01	54001	

6.3.5 R/T ASSEMBLY (A7)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
A7	R/T ASSY REV.C	300-2239-000	01	54001	
C1	CAP, DISC-CER 220PF	208-0005-000	08	22701	TYPE S (220PF)
C2	CAP, DISC-CER 220PF	208-0005-000	08	22701	TYPE S (220PF)
C3	CAP, TUBULAR-CER 0.33PF	208-0020-000	01	95121	QC-.33-5%
C4	CAP, DIP-MICA 47PF	199-4701-013	01	14655	CM04ED470J03
C5	CAP, DIP-MICA 10PF	199-1001-013	02	14655	CM04CD100D03
C6	CAP, TUBULAR-CER 3.3PF	208-0018-000	01	95121	QC-3.3-5%
C7	CAP, DIP-MICA 24PF	199-2401-013	02	14655	CM04ED240J03
C8	CAP, TUBULAR-CER 7.5PF	208-0022-000	01	95121	QC-7.5-5%
C9	CAP, DIP-MICA 24PF	199-2401-013	02	14655	CM04ED240J03
C10	CAP, TUBULAR-CER 4.7PF	208-0019-000	01	95121	QC-4.7-5%
C11	CAP, DIP-MICA 27PF	199-2701-013	03	14655	CM04ED270J03
C12	CAP, TUBULAR-CER 0.82PF	208-0024-000	01	95121	QC-.82-5%
C13	CAP, DIP-MICA 15PF	199-1501-013	03	14655	CM04CD150J03
C14	NOT USED				
C15	CAP, ADJ 4.5-15PF	201-0013-000	07	74970	274-1015-005
C16	CAP, FEED-THRU 470PF	198-0001-000	05	18796	654-017-471K
C17	CAP, FEED-THRU 470PF	198-0001-000	05	18796	654-017-471K
C18	CAP, ADJ 4.5-15PF	201-0013-000	07	74970	274-1015-005
C19	CAP, DISC-CER 470PF	208-0006-000	03	71590	CE-471
C20	CAP, TANT 1.0UF 35V	195-0107-035	05	31433	T110A105M035AS
C21	CAP, DIP-MICA 56PF	199-5601-013	02	14655	CM04ED560J03
C22	CAP, FEED-THRU 470PF	198-0001-000	05	18796	654-017-471K
C23	CAP, MONO-CER 220PF COG	209-2221-100	03	31433	C312C221J1G5CA
C24	CAP, MONO-CER 0.056UF X7R	209-2563-011	09	31433	C320C563K5R5CA
C25	CAP, DIP-MICA 56PF	199-5601-013	02	14655	CM04ED560J03
C26	CAP, ADJ 4.5-15PF	201-0013-000	07	74970	274-1015-005

6.3.5 R/T ASSEMBLY (A7) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
C27	CAP, MONO-CER 220PF COG	209-2221-100	03	31433	C312C221J1G5CA
C28	CAP, MONO-CER 0.056UF X7R	209-2563-011	09	31433	C320C563K5R5CA
C29	CAP, FEED-THRU 470PF	198-0001-000	05	18796	654-017-471K
C30	CAP, FEED-THRU 470PF	198-0001-000	05	18796	654-017-471K
C31	CAP, ADJ 4.5-15PF	201-0013-000	07	74970	274-1015-005
C32	CAP, DISC-CER 220PF	208-0005-000	08	22701	TYPE S (220PF)
C33	CAP, DIP-MICA 27PF	199-2701-013	03	14655	CM04ED270J03
C34	CAP, ADJ 4.5-15PF	201-0013-000	07	74970	274-1015-005
C35	CAP, MONO-CER 8.2PF COG	208-0036-000	01	31433	C312C829J2G5CA
C36	CAP, DIP-MICA 15PF	199-1501-013	03	14655	CM04CD150J03
C37	CAP, MONO-CER 0.01UF X7R	209-2103-011	06	31433	C320C103K2R5CA
C38	CAP, ADJ 4.5-15PF	201-0013-000	07	74970	274-1015-005
C39	CAP, MONO-CER 0.01UF X7R	209-2103-011	06	31433	C320C103K2R5CA
C40	CAP, MONO-CER 1000PF X7R	209-2102-011	02	31433	C312C102K1R5CA
C41	CAP, MONO-CER 0.01UF X7R	209-2103-011	06	31433	C320C103K2R5CA
C42	CAP, MONO-CER 1000PF X7R	209-2102-011	02	31433	C312C102K1R5CA
C43	CAP, ADJ 4.5-15PF	201-0013-000	07	74970	274-1015-005
C44	CAP, MONO-CER 0.01UF X7R	209-2103-011	06	31433	C320C103K2R5CA
C45	CAP, DIP-MICA 27PF	199-2701-013	03	14655	CM04ED270J03
C46	CAP, DIP-MICA 10PF	199-1001-013	02	14655	CM04CD100D03
C47	CAP, ADJ 3-12PF	201-0002-000	01	52763	10-ST-22 3/12 N470
C48	CAP, DIP-MICA 15PF	199-1501-013	03	14655	CM04CD150J03
C49	CAP, DIP-MICA 220PF	199-2212-013	01	14655	CM04FD221J03
C50	CAP, MONO-CER 220PF COG	209-2221-100	03	31433	C312C221J1G6CA
C51	CAP, DISC-CER 0.05UF	208-0015-000	05	71590	UK20-503
C52	CAP, DISC-CER 220PF	208-0005-000	08	22701	TYPE S (220PF)
C53	CAP, DISC-CER 100PF	208-0004-000	02	22701	TYPE S (100PF)

6.3.5 R/T ASSEMBLY (A7) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
C54	CAP, DISC-CER 1000PF	208-0007-000	01	91418	JE-.001-10%-Y5E
C55	CAP, DISC-CER 220PF	208-0005-000	08	22701	TYPE S (220PF)
C56	CAP, DIP-MICA 100PF	199-1011-013	01	14655	CM04FD101J03
C57	CAP, DISC-CER 220PF	208-0005-000	08	22701	TYPE S (220PF)
C58	CAP, DISC-CER 470PF	208-0006-000	03	71590	CE-471
C59	CAP, DISC-CER 470PF	208-0006-000	03	71590	CE-471
C60 THROUGH C63					
	CAP, MONO-CER 470PF X7R	209-2471-112	05	31433	C320C471M2R5CA
C64	CAP, DISC-CER 220PF	208-0005-000	08	22701	TYPE S (220PF)
C65	CAP, MONO-CER 0.01UF X7R	209-2103-011	06	31433	C320C103K2R5CA
C66	CAP, MONO-CER 100PF COG	209-2101-100	01	31433	C320C101J2G5CA
C67	CAP, MONO-CER 0.01UF X7R	209-2103-011	06	31433	C320C103K2R5CA
C68	CAP, MONO-CER 47PF COG	209-2470-105	01	31433	C320C470F2G5CA
C69	CAP, MONO-CER 150PF X7R	209-2151-111	01	31433	C320C151K1G5CA
C70	CAP, MONO-CER 0.056UF X7R	209-2563-111	09	31433	C320C563K5R5CA
C71	CAP, MONO-CER 0.056UF X7R	209-2563-111	09	31433	C320C563K5R5CA
C72	CAP, MONO-CER 4.7PF COG	208-0033-000	02	31433	C312C479J2G5CA
C73	CAP, MONO-CER 0.056UF X7R	209-2563-011	09	31433	C320C563K5R5CA
C74	CAP, DISC-CER 0.05UF	208-0015-000	05	71590	UK20-503
C75	CAP, TANT 1.0UF 35V	195-0107-035	05	31433	T110A105M035AS
C76	CAP, DISC-CER 0.05UF	208-0015-000	05	71590	UK20-503
C77	CAP, DISC-CER 0.05UF	208-0015-000	05	71590	UK20-503
C78 THROUGH C81					
	CAP, MONO-CER 0.056UF X7R	209-2563-011	09	31433	C320C563K5R5CA
C82	CAP, MONO-CER 470PF X7R	209-2471-112	05	31433	C320C471M2R5CA
C83	CAP, DISC-CER 0.05UF	208-0015-000	05	71590	UK20-503
C84	CAP, TANT 1.0UF 35V	195-0107-035	05	31433	T110A105M035AS
C85	CAP, MONO-CER 2200PF COG	209-2222-004	01	31433	C320C222G1G5CA

6.3.5 R/T ASSEMBLY (A7) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
C86	CAP, MONO-CER 0.1UF X7R	209-6104-011	01	31433	C330C104K1R5CA
C87	CAP, TANT 3.3UF 15V	195-0337-023	01	31433	T110A335M015AS
C88	CAP, MONO-CER 330PF COG	209-2331-100	01	31433	C320C331J2G5CA
C89	CAP, POLYCARB 0.01UF	205-0001-000	01	14752	650B1C103J
C90	CAP, MONO-CER 1000PF COG	209-2102-100	01	31433	C320C102J1G5CA
C91	CAP, TANT 4.7UF 10V	195-0477-032	01	31433	T110A475M010AS
C92	CAP, DISC-CER 220PF	208-0005-000	08	22701	TYPE S (220PF)
C93	CAP, DISC-CER 100PF	208-0004-000	02	22701	TYPE S (100PF)
C94	CAP, RF-CHIP 200PF	210-0201-111	05	51642	UC1209-100-HF0-201K
C95	CAP, DISC-CER 0.01UF	208-0011-000	03	71590	UK50-103
C96	CAP, TANT 1.0UF 35V	195-0107-035	05	31433	T110A105M035AS
C97	CAP, RF-CHIP 27PF	210-0270-211	01	51642	UC1209-100-HF0 270J
C98	CAP, RF-CHIP 68PF	210-0680-211	02	51642	UC1209-100-HF0-680J
C99	CAP, RF-CHIP 200PF	210-0201-111	05	51642	UC1209-100-HF0-201K
C100	CAP, RF-CHIP 200PF	210-0201-111	05	51642	UC1209-100-HF0-201K
C101	CAP, DISC-CER 0.01UF	208-0011-000	03	71590	UK50-103
C102	CAP, TANT 1.0UF 35V	195-0107-035	05	31433	T110A105M035AS
C103	CAP, ADJ 10-60PF	201-0004-000	02	52763	10-ST-22 10/60 N1500
C104	CAP, RF-CHIP 68PF	210-0680-211	02	51642	UC1209-100-HF0-680J
C105	CAP, RF-CHIP 82PF	210-0820-211	01	51642	UK1209-100-HF0-820J
C106	CAP, RF-CHIP 200PF	210-0201-111	05	51642	UK1209-100-HF0-201K
C107	CAP, RF-CHIP 200PF	210-0201-111	05	51642	UK1209-100-HF0-201K
C108	CAP, DISC-CER 0.01UF	208-0011-000	03	71590	UK50-103
C109	CAP, TANT 1.0UF 100V	195-0107-039	01	31433	T110B105M100AS
C110	CAP, ADJ 10-60PF	201-0004-000	02	52763	10-ST-22 10/60 N1500
C111	CAP, MONO-CER 4.7UF COG	208-0033-000	02	31433	C312C479J2G5CA
CR1	1N4002 RECTIFIER	106-5009-000	02	04713	1N4002

6.3.5 R/T ASSEMBLY (A7) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
CR2	HOT CARRIER DIODE	106-5002-000	05	50434	HP5082-2800
CR3	HOT CARRIER DIODE	106-5002-000	05	50434	HP5082-2800
CR4 THROUGH CR7	HYPERABRUPT VARACTOR	106-5032-001 106-5025-002	04	04713	SMV-5123-1
CR8	PIN DIODE	106-5011-000	03	50434	HP5082-3188
CR9	PIN DIODE	106-5011-000	03	50434	HP5082-3188
CR10	1N914	106-5007-000	02	07263	1N914
CR11	1N4002 RECTIFIER	106-5009-000	02	04713	1N4002
CR12	1N914	106-5007--00	02	07263	1N914
CR13 THROUGH CR15	HOT CARRIER DIODE	106-5002-000	05	50434	HP5082-2800
CR16	PIN DIODE	106-5011-000	03	50434	HP5082-3188
FL1	20 MHz XTAL FILTER, 4-POLE	139-2024-000	02	56187	03920-001
FL2	20 MHz XTAL FILTER, 4-POLE	139-2024-000	02	56187	03920-001
FL3	FILTER, 455 kHz	139-2007-000	01	51406	CFM-455C
FL4	455 kHz CER DISCRIMINATOR	139-2023-000	01	51406	SFD-455S
FL5	FILTER, R-L MODE SUPPR	139-2028-000	02	54001	
FL6	FILTER, R-L MODE SUPPR	139-2028-000	02	54001	
J12	JACK, SMB, BULKHD MTG	129-0028-000	01	16733	700 163
J13	JACK, N, MOD FLANGE MTG	129-0006-001	01	54001	
K1	RELAY, DPDT, 12V, 2A	131-0005-000	01	02289	2K-2299-035
L1	0.47UF CHOKE	118-1002-000	03	24226	10/470
L2	0.47UH CHOKE	118-1002-000	03	24226	10/470
L3	2-3/4T, 1/4 IN, AIR COIL	118-1117-000	02	54001	
L4	2-3/4T, 1/4 IN, AIR COIL	118-1117-000	02	54001	
L5	3T, 1/4 IN, AIR COIL	118-1037-000	02	54001	
L6	3T, 1/4 IN, AIR COIL	118-1037-000	02	54001	
L7	NOT USED				

6.3.5 R/T ASSEMBLY (A7) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
L8	2T, CW, AIR COIL	118-1080-000	01	54001	
L9	1.0UH CHOKE	118-1003-000	02	24226	10/101
L10	2T, CCW, AIR COIL	118-1080-001	03	54001	
L11	0.33UH CHOKE	118-1048-000	02	24226	10/330
L12	2T, CCW, AIR COIL	118-1080-001	03	54001	
L13	1.0UH CHOKE	118-1003-000	02	24226	10/101
L14	2T, CCW, AIR COIL	118-1080-001	03	54001	
L15	1.8UH SHIELDED CHOKE	118-1108-000	01	99800	0925-182
L16 THROUGH L18					
	3.3UH SHIELDED CHOKE	118-1102-000	03	99800	0925-332
L19	0.47UH CHOKE	118-1002-000	03	24226	10/470
L20	NOT USED				
L21	4.7UH CHOKE	118-1061-000	01	24226	10/471
L22	0.22UH CHOKE	118-1007-000	03	24226	15/220
L23	NOT USED				
L24	0.33UH CHOKE	118-1048-000	02	24226	10/330
L25	3-1/2T, 3/16 IN, AIR COIL	118-1115-000	01	54001	
L26	BUS WIRE, NO.20 AWG, 1 IN	090-1000-002	02	54001	
L27	0.22UH CHOKE	118-1007-000	03	24226	15/220
L28	1-1/2T, 3/16 IN, AIR COIL	118-1116-000	01	54001	
L29	BUS WIRE, NO.20 AWG, 1 IN	090-1000-002	02	54001	
L30	0.22UH CHOKE	118-1007-000	03	24226	15/220
MX1	BALANCED MIXER	118-2001-000	01	15542	SRA-1
PS1	RF POWER SPLITTER	118-2009-000	01	15542	PSC-2-1
Q1	BFR-91, LOW NOISE, RF AMP	106-0053-000	01	04713	BFR-91
Q2	3N203 RF MOSFET	106-0027-000	01	01295	3N203
Q3	2N3904 NPN	106-0041-000	04	04713	2N3904
Q4	2N3904 NPN	106-0041-000	04	04713	2N3904

6.3.5 R/T ASSEMBLY (A7) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
Q5	MPS-4355	106-0040-000	01	04713	MPS-4355
Q6	2N5179 NPN RF	106-0005-000	01	04713	2N5179
Q7	2N3904 NPN	106-0041-000	04	04713	2N3904
Q8	2N5245 JFET	106-0004-000	01	01295	2N5245
Q9	2N3904 NPN	106-0041-000	04	04713	2N3904
Q10	MRF559, 1/2W RF AMP	106-0054-000	01	04713	MRF559
Q11	MRF237, RF PWR	106-0064-000	01	04713	MRF237
Q12	MRF323, UHF RF PWR	106-0056-000	01	04713	MRF323
R1	RESISTOR, 2.2K OHM 1/4W	230-0224-022	06	01121	RCR07G222KS
R2	RESISTOR, 10K OHM 1/4W	230-0105-022	08	01121	RCR07G103KS
R3	RESISTOR, 10K OHM 1/4W	230-0105-022	08	01121	RCR07G103KS
R4	RESISTOR, 56 OHM 1/4W	230-0562-022	03	01121	RCR07G560KS
R5	RESISTOR, 680 OHM 1/4W	230-0683-022	05	01121	RCR07G681KS
R6	RESISTOR, 4.7K OHM 1/4W	230-0474-022	02	01121	RCR07G472KS
R7	RESISTOR, 560 OHM 1/4W	230-0563-022	01	01121	RCR07G561KS
R8	RESISTOR, 680 OHM 1/4W	230-0683-022	05	01121	RCR07G681KS
R9	RESISTOR, 10K OHM 1/4W	230-0105-022	08	01121	RCR07G103KS
R10	RESISTOR, 10K OHM 1/4W	230-0105-022	08	01121	RCR07G103KS
R11	RESISTOR, 820 OHM 1/4W	230-0823-022	05	01121	RCR07G821KS
R12	RESISTOR, 56 OHM 1/4W	230-0562-022	03	01121	RCR07G560KS
R13	RESISTOR, 100 OHM 1/4W	230-0103-022	05	01121	RCR07G101KS
R14	RESISTOR, 100K OHM 1/4W	230-0106-022	01	01121	RCR07G104KS
R15	RESISTOR, 47K OHM 1/4W	230-0475-022	03	01121	RCR07G473KS
R16	RESISTOR, 22K OHM 1/4W	230-0225-022	01	01121	RCR07G223KS
R17	RESISTOR, 390 OHM 1/4W	230-0393-022	02	01121	RCR07G391KS
R18	RESISTOR, 100 OHM 1/4W	230-0103-022	05	01121	RCR07G101KS
R19	RESISTOR, 4.7K OHM 1/4W	230-0474-022	02	01121	RCR07G472KS
R20	RESISTOR, 680 OHM 1/4W	230-0683-022	05	01121	RCR07G681KS

6.3.5 R/T ASSEMBLY (A7) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
R21	RESISTOR, 680 OHM 1/4W	230-0683-022	05	01121	RCR07G681KS
R22	RESISTOR, 10K OHM 1/4W	230-0105-022	08	01121	RCR07G103KS
R23	RESISTOR, 150 OHM 1/4W	230-0153-022	02	01121	RCR07G151KS
R24	RESISTOR, 820 OHM 1/4W	230-0823-022	05	01121	RCR07G821KS
R25	RESISTOR, 680 OHM 1/4W	230-0683-022	05	01121	RCR07G681KS
R26	RESISTOR, 100 OHM 1/4W	230-0103-022	05	01121	RCR07G101KS
R27	RESISTOR, 56 OHM 1/4W	230-0562-022	03	01121	RCR07G560KS
R28	RESISTOR, 10K OHM 1/4W	230-0105-022	08	01121	RCR07G103KS
R29	RESISTOR, 2.2K OHM 1/4W	230-0224-022	06	01121	RCR07G222KS
R30	RESISTOR, 150 OHM 1/4W	230-0153-022	02	01121	RCR07G151KS
R31	RESISTOR, 2.2K OHM 1/4W	230-0224-022	06	01121	RCR07G222KS
R32	RESISTOR, 5.6K OHM 1/4W	230-0564-022	06	01121	RCR07G562KS
R33	RESISTOR, 1K OHM 1/4W	230-0104-022	01	01121	RCR07G102KS
R34	RESISTOR, 5.6K OHM 1/4W	230-0564-022	06	01121	RCR07G562KS
R35	RESISTOR, 10K OHM 1/4W	230-0105-022	08	01121	RCR07G103KS
R36	RESISTOR, 2.2K OHM 1/4W	230-0224-022	06	01121	RCR07G222KS
R37	RESISTOR, 5.6K OHM 1/4W	230-0564-022	06	01121	RCR07G562KS
R38	RESISTOR, 47K OHM 1/4W	230-0475-022	03	01121	RCR07G473KS
R39	RESISTOR, 100 OHM 1/4W	230-0103-022	05	01121	RCR07G101KS
R40	RESISTOR, 1.5K OHM 1/4W	230-0154-022	01	01121	RCR07G152KS
R41	RESISTOR, 390 OHM 1/4W	230-0393-022	02	01121	RCR07G391KS
R42	RESISTOR, 10K OHM 1/4W	230-0105-022	08	01121	RCR07G103KS
R43	RESISTOR, 2.2K OHM 1/4W	230-0224-022	06	01121	RCR07G222KS
R44	RESISTOR, 220 OHM 1/4W	230-0223-022	02	01121	RCR07G221KS
R45	RESISTOR, 27 OHM 1/4W	230-0272-022	01	01121	RCR07G270KS
R46	RESISTOR, 47 OHM 1/4W	230-0472-022	02	01121	RCR07G470KS
R47	RESISTOR, 820 OHM 1/4W	230-0823-022	05	01121	RCR07G821KS

6.3.5 R/T ASSEMBLY (A7) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
R48	RESISTOR, 820 OHM 1/4W	230-0823-022	05	01121	RCR07G821KS
R49	RESISTOR, 18K OHM 1/4W	230-0185-022	01	01121	RCR07G183KS
R50	RESISTOR, 1.8K OHM 1/4W	230-0184-022	01	01121	RCR07G182KS
R51	RESISTOR, 470 OHM 1/4W	230-0473-022	02	01121	RCR07G471KS
R52	RESISTOR, 100 OHM 1/4W	230-0103-022	05	01121	RCR07G101KS
R53	RESISTOR, 220 OHM 1/4W	230-0223-022	02	01121	RCR07G221KS
R54	RESISTOR, 47 OHM 1/4W	230-0472-022	02	01121	RCR07G470KS
R55	RESISTOR, 820 OHM 1/4W	230-0823-022	05	01121	RCR07G821KS
R56 THROUGH R58					
	RESISTOR, 5.6K OHM 1/4W	230-0564-022	06	01121	RCR07G562KS
R59	RESISTOR, 47K OHM 1/4W	230-0475-022	03	01121	RCR07G473KS
R60	RESISTOR, 1.30K OHM 1%	231-1304-021	01	91637	RN55D1301F
R61	RESISTOR, 22.1K OHM 1%	231-2215-021	01	91637	RN55D2212F
R62	RESISTOR, 2.2K OHM 1/4W	230-0224-022	06	01121	RCR07G222KS
R63	RESISTOR, 2.7K OHM 1/4W	230-0274-022	01	01121	RCR07G272KS
R64	RESISTOR, 2.55K OHM 1%	231-2554-021	01	91637	RN55D2551F
R65	RESISTOR, 4.99K OHM 1%	231-4994-021	01	91637	RN55D4991F
R66	RESISTOR, 3.32K OHM 1%	231-3324-021	01	91637	RN55D3321F
R67	RESISTOR, 8.2K OHM 1/4W	230-0824-022	01	01121	RCR07G822KS
R68	RESISTOR, ADJ 2K OHM	233-0015-008	01	32997	3329H-1-202
R69	RESISTOR, 82 OHM 2W	230-0822-052	01	01121	RCR42G820KS
R70	RESISTOR, 1.10K OHM 1%	231-1104-021	01	91637	RN55D1101F
R71	RESISTOR, 180 OHM 1/4W	230-0183-022	01	01121	RCR07G181KS
R72	RESISTOR, 3.3 OHM 1/4W	230-0331-022	01	01121	RCR07G3R3KS
R73	RESISTOR, 68 OHM 1/4W	230-0682-022	01	01121	RCR07G680KS
R74	RESISTOR, 10 OHM 1/4W	230-0102-022	01	01121	RCR07G100KS
R75	RESISTOR, 470 OHM 1/4W	230-0473-022	02	01121	RCR07G471KS

6.3.5 R/T ASSEMBLY (A7) (cont.)

<u>CKT SYMBOL</u>	<u>DESCRIPTION</u>	<u>WULFSBERG PART NUMBER</u>	<u>ASSY QTY</u>	<u>VENDOR CODE</u>	<u>VENDOR PART NUMBER</u>
T1	5T RF BALUN, T30-12	118-2012-000	01	54001	
T2	5T RF BALUN, T25-12	118-2002-000	02	54001	
T3	5T RF BALUN, T25-12	118-2002-000	02	54001	
TP1 THROUGH TP3					
	JACK, 2-PIN, PC MTG	129-2059-002	03	54001	
U1	1458 LIN DUAL OPAMP	106-7006-000	02	04713	MC1458CPI
U2	2111 FM-IF AMP	106-7007-000	02	27014	LM2111N
U3	2111 FM-IF AMP	106-7007-000	02	27014	LM2111N
U4	1458 LIN DUAL OPAMP	106-7006-000	02	04713	MC1458CPI
Y1	XTAL, RT-9600, 20.455	139-0043-000	01	54001	
	TEFLON FEED-THRU	107-0019-000	02	83330	82-1033
	RT-138 R/T PC BOARD	108-6138-000	01	54001	
	RT-138 XMTR PC BOARD	108-6139-000	01	54001	
	NO.4 GND LUG, LONG SHANK	109-0008-000	02	79963	501-120
	SPLIT TERMINAL, HOLLOW	109-0020-000	05	58712	2006B
	BIFURCATED TERMINAL	109-0023-000	17	98291	229-3036-59
	EYELET, 0.048 X 0.095	109-0024-000	08	57771	A1041
	TO-18 TRANSISTOR INSULATOR	111-0024-000	02	13103	43-18-1
	INSULATOR, XTAL CAN RELAY	111-0026-000	02	53174	AP-81
	RT-138 R/T MODULE CHASSIS	146-0516-004	01	54001	
	RT-30 R/T MODULE FNT MTG PL	146-0546-001	01	54001	
	RT-138 RCVR FENCE	146-0634-006	01	54001	
	RT-138 R/T MODULE CVR	146-0635-001	01	54001	
	RT-138 XMTR HEATSINK	146-0636-002	01	54001	
	RT-138 CONN MTG PLATE	146-0637-001	01	54001	
	RT-138 L.O. FENCE	146-0676-002	01	54001	
	RT-138 L.O. BOTTOM CVR	146-0677-001	01	54001	