



Doc - 64

SEPTEMBER 1990

Re.: Updating Maintenance Manual CQM6xxx

Please find enclosed revised and new pages for the Maintenance Manual CQM6xxx which has now been updated.

It has been necessary to introduce a new volume, Volume V, to the Maintenance Manual to provide space for all revisions and innovations since last update.

Volume IV now consists of chapter 4 while the new Volume V consists of chapter 5 and 6.

See page 2 for a survey of the new and revised pages, and indication of where to insert them in the manual.

Please find enclosed the new pages.

Additional manuals can be ordered from:

MOTOROLA STORNO
Att.: Majken Schlüter
Publication Services
Artillerivej 126
2300 Copenhagen S
Denmark

Please check name and address on the post label. If incorrect, or if you have any comments or corrections to this maintenance manual, kindly fill in the attached "Updating card" and return it to us.

Kind Regards



Chantal Dyhrberg

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INSERTION OF NEW/REVISED PAGES:**VOLUME I****0: Front page****1: Radio Equipment, Nomenclature and Presentation**
D404.443/3, M405.763**2: Control Box, Nomenclature and Presentation**
62.250-E1, MPL405.762, M405.762**4: Accessories**
61.093-E10 (1p.)**6: Cables CC60xx**
M405.764**VOLUME II****0: Front Page****VOLUME III****0: Front Page****2: Technical Specifications**
61.022-E7 (1p.)**3: Radio Frequency Board**
X404.465/11, X404.464/14, X404.463/11**VOLUME IV****0: Front Page, Index**
62.026-E2**4: Common Function Board**
61.196-E4, 62.154-E2 (1p.), D405.549/3, D405.549/4, X405.550/3, X404.462/12,
62.256-E1, 62.257-E1, 62.155-E2, D405.552/3, D405.553/3, D405.554/3, X405.555/3,
X405.556/3

VOLUME V

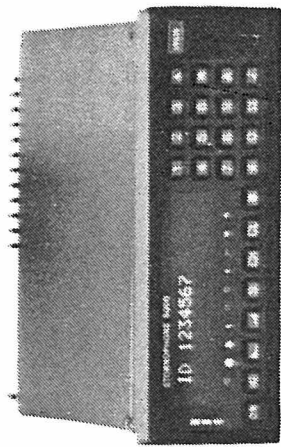
0: Front Page, Index
62.258-E1

5: Control Box
D405.309/2, D405.308/3, X405.310/2, 62.197-E2, D405.594, X405.595

**STORNOPHONE 6000
MAINTENANCE MANUAL
VOLUME I**

SEPTEMBER 1990

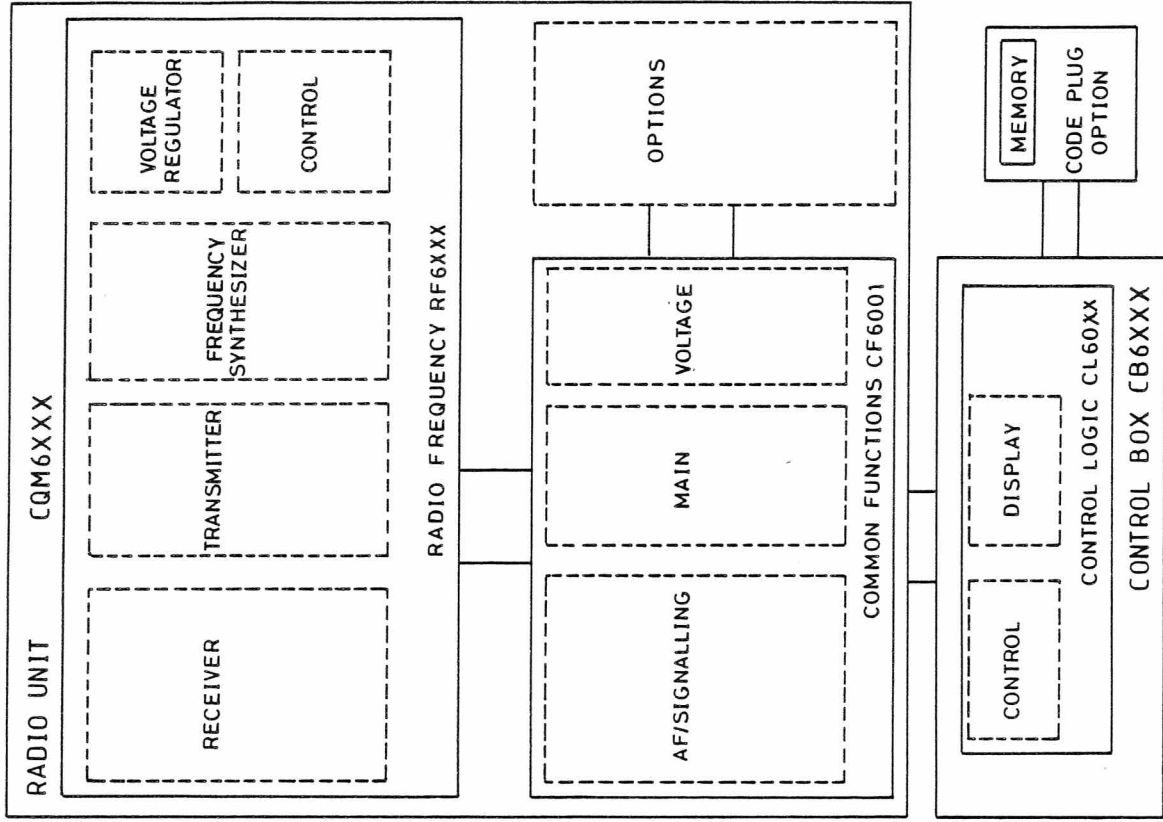
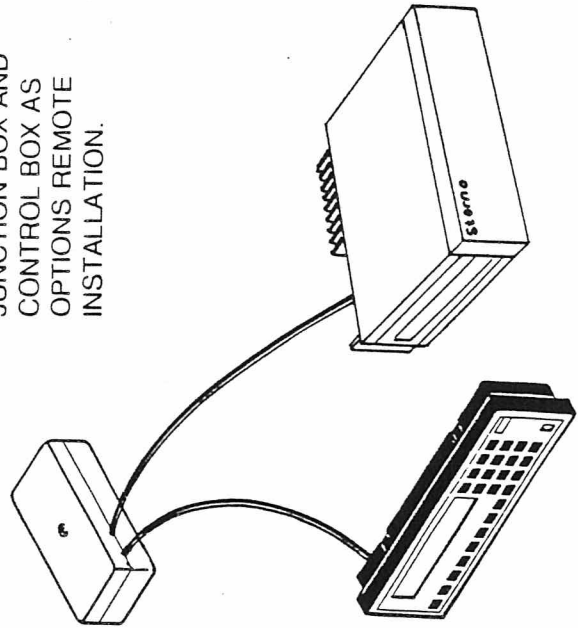
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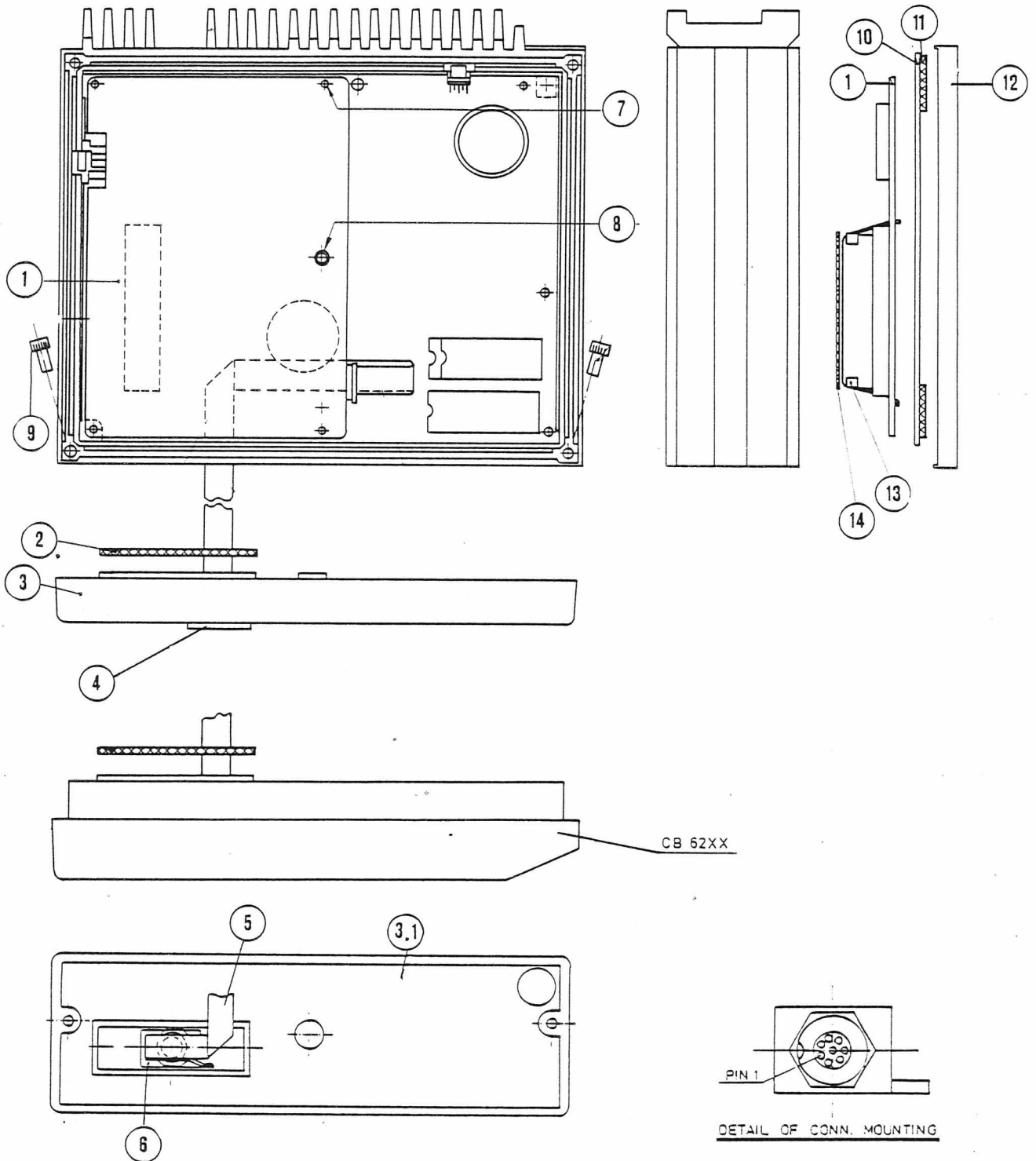


RADIO UNIT WITH
ONE CONTROL BOX,
LOCAL INSTALLATION.



RADIO UNIT WITH
JUNCTION BOX AND
CONTROL BOX AS
OPTIONS REMOTE
INSTALLATION.





Pos.	Code No.	Description	Qt.
1	0102700U11	EC6001	1
	0102700U42	EC6002	1
2	J708498P2	GASKET FRONT COVER	1
3	1502016U09	COVER FRONT ASM	1
3.1	J710036P18	COVER FRONT	1
4	0702017U09	CONN. MULTI RECP + 08 - CKT	1
5	8402003u31A	BOARD PW FLEXIBLE	1
6	0702017U09	SUPPORT CONN.	1
7	A700036P305	SCREW TF M2.4 x 5	4
8	A700031P305	SCREW M2.5 x 5	1
9	A7001240P408	SCREW	2
10	J709324	INSULATION SHEET	1
11	J711588P1	TAPE	2
12	L855591G1	COVER OUTER	2
13	0702017U10	BRACKET	1
14	J711017P1	WASHER, INSULATION	2

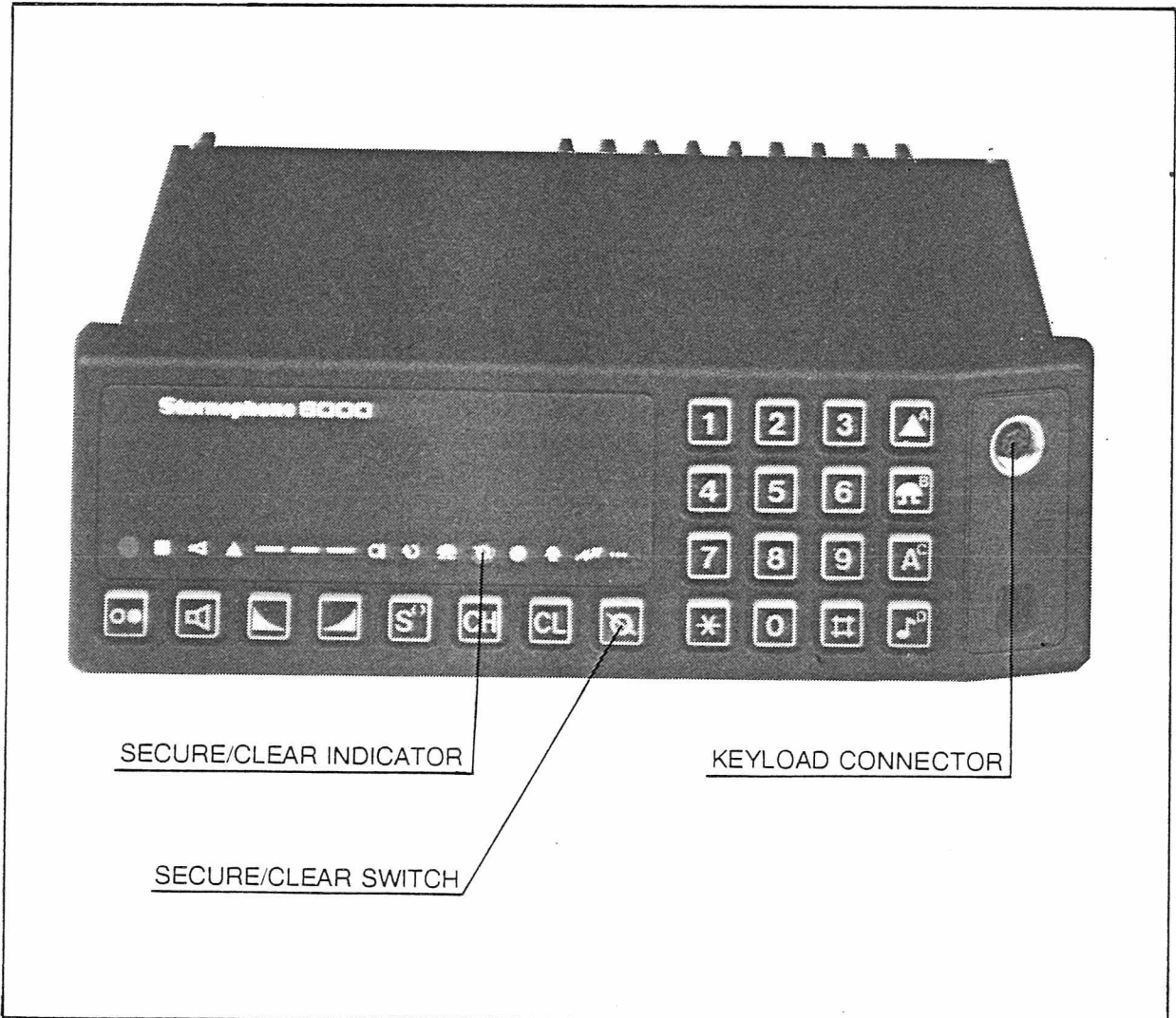
**MECHANICAL PARTS FOR CQM6XXX
ENCRYPTION VERSION**

M405.763

CONTROL BOX CB6201

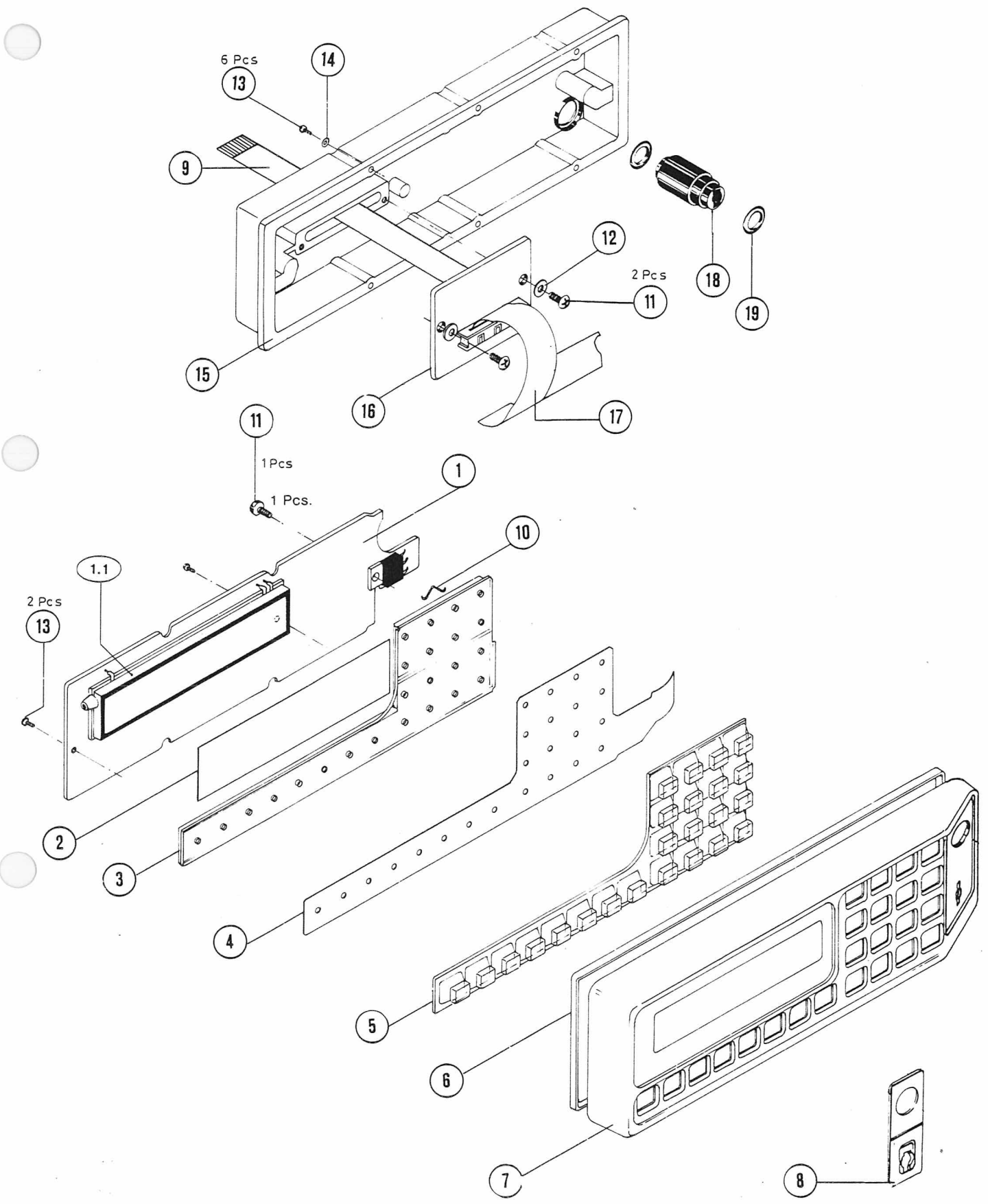
PRESENTATION

ENCRYPTION VERSION



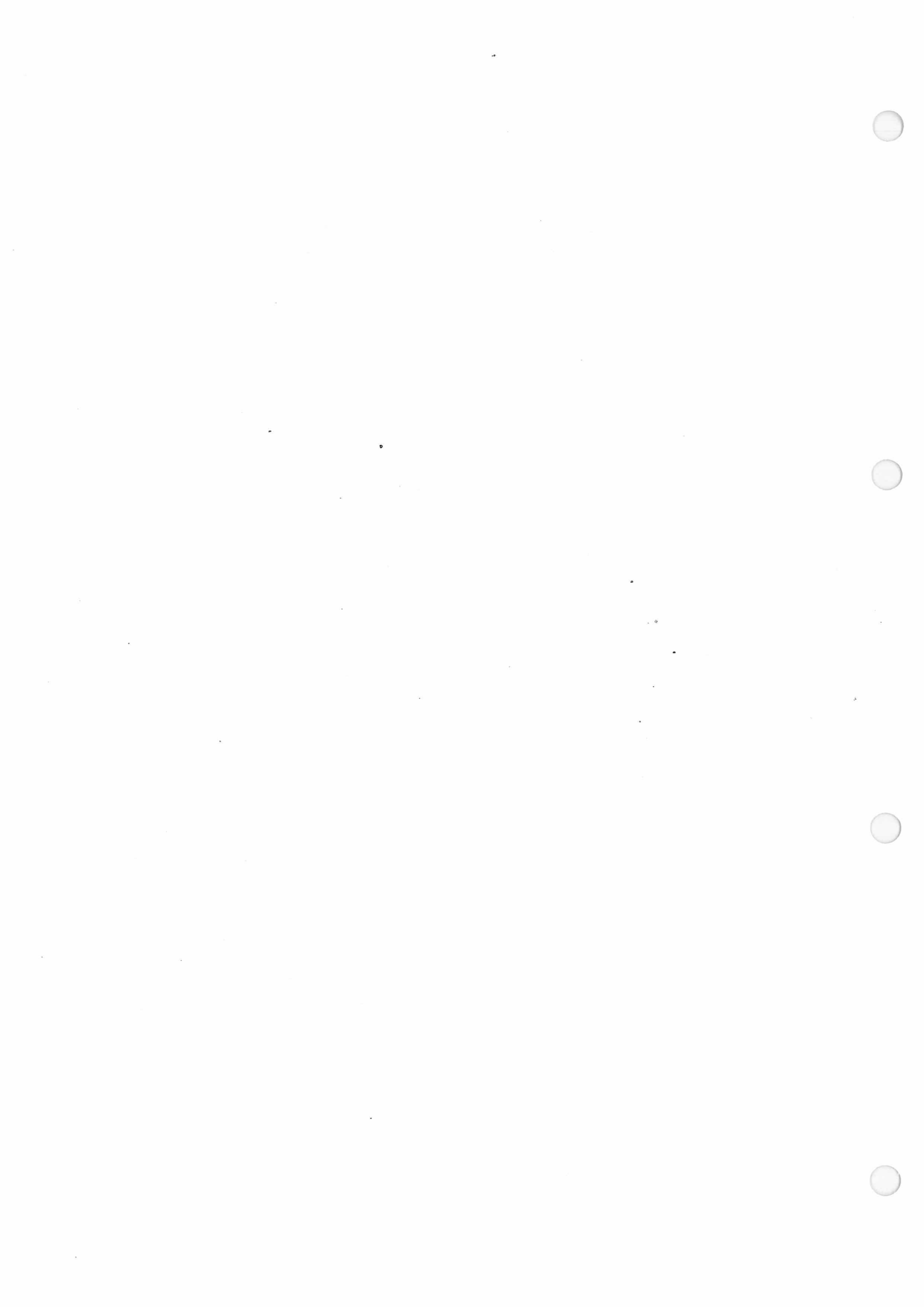
MECHANICAL PARTS LIST FOR CONTROL BOX CB6201 FOR ENCRYPTION VERSION

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
1	M906539G2	CL6010	1				
1.1	J708896P1	DISPLAY, FLOURESC. 16-SD 01ZS	1				
2	L856032P1	DISPLAY COVER	1				
3	M906427P1R1	LIGHT GUIDE	1				
4	M906496P1	CONTACT FOIL	1				
5	7502015U22	KEYPAD RUBBER	1				
6	3202010U01	GASKET	1				
7	K805992G8	FRONT ASM LOCAL SPEAKER MIC./ KEYLOAD (STD ENCRYPTION VERS.)	1				
	K805992G13	FRONT ASM REMOTE CODE PLUG/MC (STD ENCRYPTION VERS.)	1				
	K805992G14	FRONT ASM REMOTE MIC + H-BUS (STD ENCRYPTION VERS.)	1				
	K805992G15	FRONT ASM REMOTE SPEAKER MIC (STD ENCRYPTION VERS.)	1				
	K805992G15	FRONT ASM REMOTE (STD ENCRYPTION VERS.)	1				
8	J711168P1	PLATE	1				
9	8492003U19A	KEY LOAD CPNT. 8D FLEX	1				
10	J709972P1R1	CLIPS	11				
11	A700031P406	SCREW PAN HD M-3.0X 6.0	3				
12	J706076P5	WASH, SPG 3X6.4	2				
13	A700031P205	SCR PAN HD M-2.0X 5.0	8				
14	J710102P1	WASHER	6				
15	K805877P1R1	BOTTOM PAINTED	1				
16	0102700U15	FN6014	1				
17	8402003U18A	CB CPNT. 8D FLEX	1				
18	K805873P1	LOCK	1				
19	J707200P4	PACKING D-8.1X1.6	2				
	J710858G1	NON REFERENCED ITEM: MOUNTING KIT (LOCAL ONLY)	1				



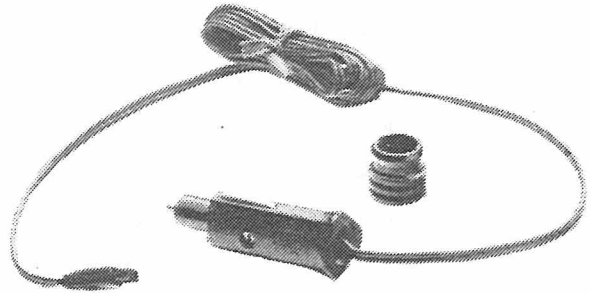
MECHANICAL PARTS FOR CB6201
 ENCRYPTION VERSION

M405.762

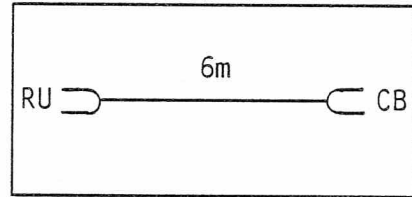


STORNOPHONE 6000, ACCESSORIES

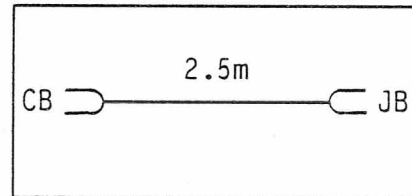
CC6015 K805935G1
 Charging cable for CK6003 with connection to the cigar lighter socket.
 Length: 2.5 meters



CC6029 L856214G1
 Heavy-duty cable kit (waterproof IP54). Used for connecting the radio unit (R) with the control box CB6402 (CB). The cable consists of a housing, a 25 pin D-connector, a 15 pin D-connector, 6 m power cable, a gasket and two screws and a fuse box with 2 pcs. 8 A fuses.



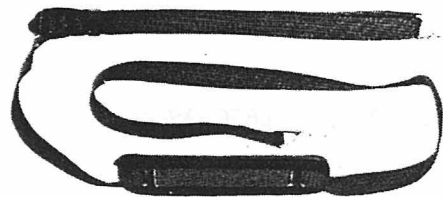
CC6034 K806092G1
 Heavy-duty cable kit for mounting between the control box CB6402 (CB) and the junction box JB6001 (JB). Used for separate installation of the CB. The cable consists of a 2.5 m multicable, a 15 pin D-connector, and a 14 pin connector.



SDKN4054A Keyload extension cable.
 Option for remote installation in secure version.

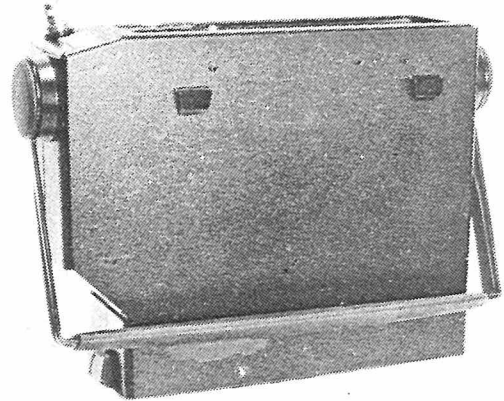
CK6001 DELETED, replaced by CK6003

CK6002 K805755G1
 Shoulder strap in black nylon for mounting on the carrying cassette.



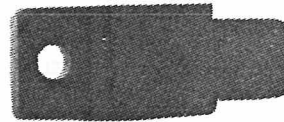
STORNOPHONE 6000, ACCESSORIES

CK6003 M906494G1
Carrying cassette. Can only be used in conjunction with an integrated installation with a handset control box, with handle and plastic top.
Delivered with a built-in charging circuitry for the battery unit.
Supply: 10-32 Volts.
Battery unit and antenna must be ordered separately.
Size 174 x (200/230) x 63 mm
Weight: 1.5 kg.



CS6001 J709581G1
Internal code plug for control box, small.

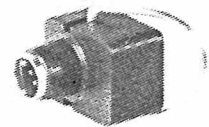
CS6001 J709581G5
Code plug. Only simple control box. For software specification, confer with the EF software manual.



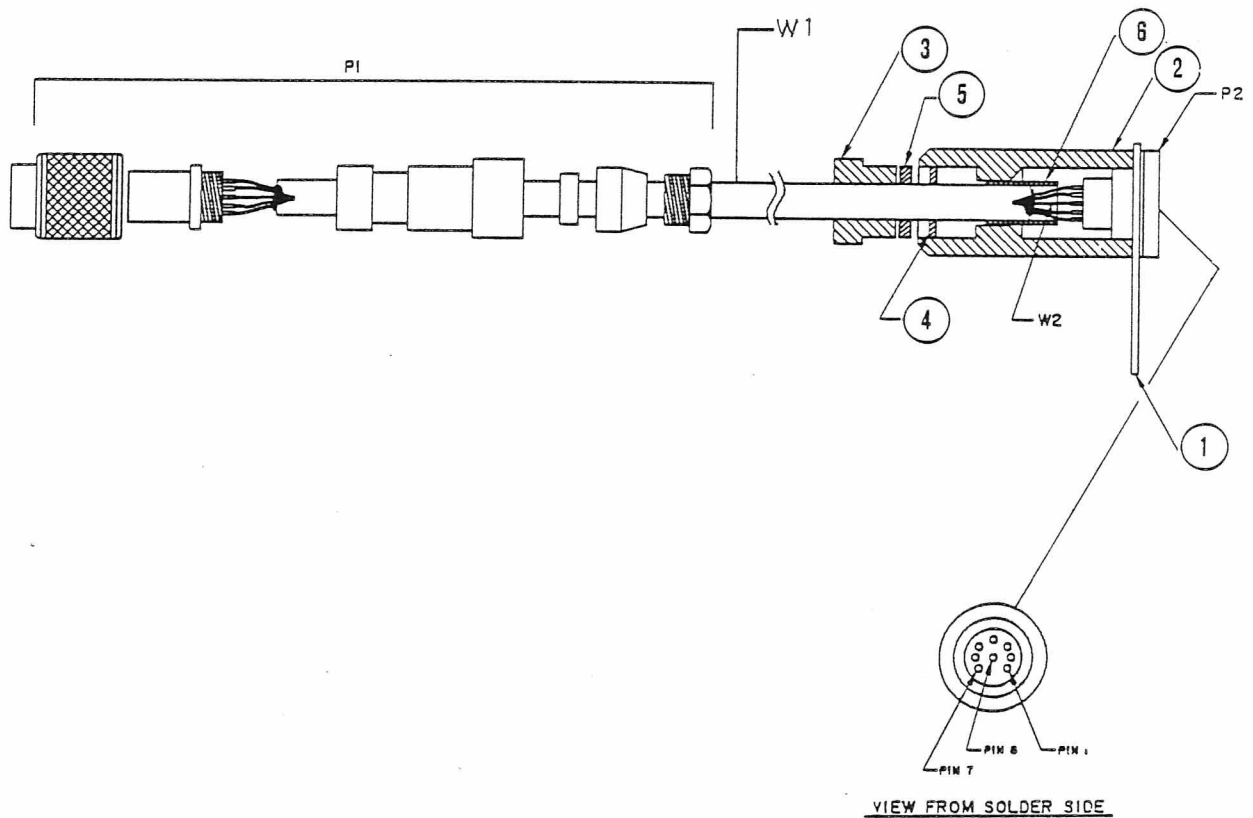
CS6002 J709581G2
Internal code plug for control box, big

CS6003 L855909G1
External code unit, small, used in JB6002.

CS6004 L855909G2
External code unit, big, used in JB6002.



CS6005 L856098G2
Code plug



Pos.	Code No.	Description	Qt.
P1	J710036P108	CONN, MULTI PLUG, 08-CKT	1
P2	J710036P118	CONN, MULTI REPC, 08-CKT	1
W1	3008002U02	CABLE, MULTI 04-COND	1
W2	A701268P10	WIRE 0.030 M	1
01	0702017U11	SUPPORT, CONN	2
02	1502016U13	HOUSING	1
03	J706897P1	BUSHING	1
04	J706845P1	WASHER	1
05	J706846P5	GASKET	1
06	A700136P3	SLEEVE 0.01 M	1

P1	P2	COLOUR
4	4	YELLOW
3	5	GREEN
2	6	WHITE
1	7	BROWN
8	8	SHIELD

KEYLOAD EXTENSION CABLE Sdkn4054A

**STORNOPHONE 6000
MAINTENANCE MANUAL
VOLUME II**

SEPTEMBER 1990

PUBLICATION NO: 68P84836D16-D

**STORNOPHONE 6000
MAINTENANCE MANUAL
VOLUME III**

TECHNICAL SPECIFICATIONS

CQM6XXX/MC spectro

GENERAL

TYPE CQM		6332	6333	6334	6112	6113	6114	6774	6662	6663	6664
Freq. & Splits	MHz	66-88			136-174			174-210 190-225	403-470		
Channel Spacing	kHz	25	20	12.5	25	20	12.5	12.5	25	20	12.5
Channel raster	kHz	6.25	5	6.25	6.25	5	6.25	6.25	12.5	10	6.25
No. of Channels		Up to 99 with CL60XX									
Mode		Simplex or semi duplex									
Channel scan	ms	5 for one channel, 10 for 1 MHz									
Frequency Stability (Extreme)	kHz	±1.35		±1	±2		±1.5		±2.5		±1.5
Temperature range	°C	-25 to +60									
Antenna impedance	Ohm	50									
Speaker	Ohm	4 to 8, balanced (DC power at LS lines)									
Supply	V	13.2 V nominal, 10.8 V to 15.6 V at extreme conditions									
Cur. dr. Off RX (stby) TX (6 W) TX (10 W) TX (25 W)	mA	Including CF (300 mA) and CL (220 mA) 27 720 4020 5020 7220									
Dimensions	mm	D = 175			W = 181			H = 51			
Weight	kg	2.2 incl. Control head (.25) and Cassette (.4)									
CTCSS Signalling: In accordance with EIA specification RS-220											

TECHNICAL SPECIFICATIONS, CQM6XXX/MC spectro

RECEIVER

TYPE CQM		6332	6333	6334	6112	6113	6114	6774	6662	6663	6664
Sensitivity	uV/EMF	0.7		1.0	0.7		1.0	1.15	0.8		1.15
20 dB p-SINAD	dBm	-116		-113	-116		-113	-112	-115		-112
RF Bandwidth	MHz	Varactor tuned to cover total band or band split									
AF output power	W	10 EIA, 8 CEPT method									
Distorsion	%	4 (measured at 4 W)									
Audio freq. bandwith	Hz	300-3000	300-3000	300-2550	300-3000	300-3000	300-2550	300-2550	300-3000	300-3000	300-2550
Audio freq. resp.		-6 dB/oct. phase modulation characteristics									
Tolerance	dB	+1 -3	+1* -3	+1 -3	+1* -3	+1 -3	+1* -3	+1 -3	+1* -3	+1 -3	+1 -3
Hum & noise	dB	-40 (EIA, unweighted)									
Radiated spurious	nW	2 (-57 dBm to resonant substition dipole)									
Conducted Spurious	dBm	-57									
RX attack time	ms	25 (EIA)									
Recovery time	ms	35									
Adjacent channel selectivity	dB	CEPT 70 2 uV	FTZ 70 rel.	CEPT 60 2 uV	CEPT 70 2 uV	FTZ 70 rel.	CEPT 60 2 uV	CEPT 60 2 uV	CEPT 70 2 uV	FTZ 70 rel.	CEPT 60 2 uV
Blocking	dB/uV	100 (CEPT method)									
Intermodulation	dB	CEPT 76 1 uV	FTZ 66 +80 2 uV	CEPT 70 1 uV	CEPT 76 1 uV	FTZ 66 +80 2 uV	CEPT 70 1 uV	CEPT 70 1 uV	CEPT 76 1 uV	FTZ 66 +80 3 uV	CEPT 70 1 uV
Spurious rejection	dB/uV	76 (CEPT method)									
CO-chan. rejection	dB	8									
Sq.sensitivity	dB	10 - 12 dB SINAD (EIA)**									
Squelch tail	ms	15 (EIA)									
Group delay	us	Less than 100 measured at RX line									
RX line	mV	Nominal 110 ±5.1 kHz, for 60% deviation									
Proc. RX	mV	Nominal 300 +50 -80.1 kHz, deemphasised, squelched									
*Tolerance of response from 400 to 2700 Hz +1, -1.5 dB **Tolerance of Squelch-level from -25°C to +60°C is ±1.5 dB (SINAD). ***With psophometric filter.											

TRANSMITTER

TYPE CQM		6332	6333	6334	6112	6113	6114	6774	6662	6663	6664
RF output power	W	6W ±1dB or 25W ±1dB depending on assembly. Both adjustable down 10dB from nominal. "Softkeying" with 6 ms rise and fall times. Software controlled -10 dB reduction.									
Duty cycle	%	20% at 60 °C (1 min TX/4 min. RX)									
RF Bandwidth	MHz	Covers total band or band split.									
Modulation response	Hz	300-3000	300-3000	300-2550	300-3000	300-3000	300-2550	300-2550	300-3000	300-3000	300-2550
Mod. resp. Nic. input		+6 dB/oct. phase modulation characteristics at 6000 Hz att.: >6 dB rel to 1 kHz value.									
Tolerance	dB	+1 -3	+1* -3	+1 -3	+1* -3	+1 -3	+1* -3	+1 -3	+1* -3	+1 -3	+1 -3
Max. deviation	kHz	5	4	2.5	5	4	2.5	2.5	5	4	2.5
Conducted	dBm	-37									
Radiaten spurious	nW	200 (-37 dBm to resonant substitution dipole)									
Audio distorsion	SPL	94 dB rel. 2 x 10 ⁻⁵ Pascal for 60% -90% of rated deviation corresponding to 110 mV ±3 dB									
Audio distort.	%	5 (CEPT)									
Resident mod.	dB	-40 (Weighted CEPT), -37 (unweighted, DOC)									
Adjacent Channel power	dB/C	-70	N/A	-60	-70	-60	-70	-60	-70	-60	-60
Attack time	ms	15									
Decay time	ms	5									
Group delay	us	Less than 100 measured at TX line									
TX stability		4.5:1 VSWR, all phase angles									
TX line		10 Hz to 3000 Hz, 1.0 V RMS for 60% dev.									
*Tolerance of response from 400 to 2700 Hz is +1, -1.5 dB.											

PARTS LIST FOR RADIO FREQUENCY BOARD RF611X : M905761GX BD. REV.2/R

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENTS REVISED SINCE LAST EDITION ARE MARKED *		C131	A700006P32	CAP MICA 82P 5%	1
				C132	A700006P41	CAP MICA 180P 5%	1
				C133	2113741C17	CAP CER CL2 100N 10%	1
	M905761G1	RF6112S25		C134	J707809P26	CAP CER NPO 120P 5%	1
	M905761G2	CH. SPAC. 25kHz/25W OUT		C135	2113741A17	CAP CER CL2 680P 10%	1
	M905761G3	RF6113S25		C136	A700006P26	CAP MICA 47P 5%	1
	M905761G4	CH. SPAC. 20kHz/25W OUT		C137	A700006P34	CAP MICA 100P 5%	1
	M905761G5	RF6114S25		C138	J707809P27	CAP CER NPO 150P 5%	1
	M905761G6	CH. SPAC. 12.5kHz/25W OUT		C139	J707809P27	CAP CER NPO 150P 5%	1
				C140	J707809P27	CAP CER NPO 150P 5%	1
				C141	J707809P27	CAP CER NPO 150P 5%	1
				C142	A700006P6	CAP MICA 10P 5%	1
				C143	A700006P22	CAP MICA 36P 5%	1
				C144	A700006P22	CAP MICA 36P 5%	1
C000	2113741A33	CAP CER CL2 3N3 10%	1	C145	A700006P11	CAP MICA 15P 5%	1
C001	J707809P5	CAP CER NPO 2P2 .25P G1	1	C146	2113741A17	CAP CER CL2 680P 10%	1
C100	J707809P10	CAP CER NPO 5P6 .25P	1	C147	2113741A17	CAP CER CL2 680P 10%	1
C101	2113741A17	CAP CER CL2 680P 10%	1	C148	2113741A17	CAP CER CL2 680P 10%	1
C102	J707809P8	CAP CER NPO 3P9 .25P	1	C149	2113741A17	CAP CER CL2 680P 10%	1
C103	J707809P27	CAP CER NPO 150P 5%	1	C150	J707809P1	CAP CER NPO 1P0 .25P	1
C104	J707809P19	CAP CER NPO 33P 5%	1	C151	J707809P1	CAP CER NPO 1P0 .25P	1
C105	J707809P13	CAP CER NPO 10P 5%	1	C152	2113741A17	CAP CER CL2 680P 10%	1
C106	2113741M45	CAP CER CL2 10N 10%	1	C153	2113741A17	CAP CER CL2 680P 10%	1
C107	J707809P25	CAP CER NPO 100P 5%	1	C154	2113741A17	CAP CER CL2 680P 10%	1
C108	J707809P22	CAP CER NPO 56P 5%	1	C155	2113741A17	CAP CER CL2 680P 10%	1
C109	J707809P17	CAP CER NPO 22P 5%	1	C156	J707353P3	CAP ELECT 0U47 50V	1
C110	2113741M45	CAP CER CL2 10N 10%	1	C157	2113741A17	CAP CER CL2 680P 10%	1
C111	J707809P25	CAP CER NPO 100P 5%	1	C158	2113741A17	CAP CER CL2 680P 10%	1
C112	2113741A17	CAP CER CL2 680P 10%	1	C159	2113741M45	CAP CER CL2 10N 10%	1
C113	J707809P21	CAP CER NPO 47P 5%	1	C160	2113741A17	CAP CER CL2 680P 10%	1
C114	J707809P25	CAP CER NPO 100P 5%	1	C161	2113741M45	CAP CER CL2 10N 10%	1
C115	J707809P24	CAP CER NPO 82P 5%	1	C162	2113741M45	CAP CER CL2 10N 10%	1
C116	2113741M45	CAP CER CL2 10N 10%	1	C163	2113741C05	CAP CER CL2 33N 10%	1
C117	J707809P26	CAP CER NPO 120P 5%	1	C164	2113741A17	CAP CER CL2 680P 10%	1
C118	2113741M45	CAP CER CL2 10N 10%	1	C165	2113741A17	CAP CER CL2 680P 10%	1
C119	2113741A17	CAP CER CL2 680P 10%	1	C166	2113741A17	CAP CER CL2 680P 10%	1
C120	J707809P23	CAP CER NPO 68P 5%	1	C167	A701413P34	CAP MICA 100P 5%	1
C121	J707809P23	CAP CER NPO 68P 5%	1			G1/G2/G3	
C122	A700006P34	CAP MICA 100P 5%	1	C167	A701413P38	CAP MICA 150P 5%	1
C123	2113741M45	CAP CER CL2 10N 10%	1			G4/G5/G6	
C124	J707809P26	CAP CER NPO 120P 5%	1	C168	A700006P28	CAP MICA 56P 5%	1
C125	2113741A17	CAP CER CL2 680P 10%	1			G1/G2/G3	
C126	2113741M45	CAP CER CL2 10N 10%	1	C168	A700006P32	CAP MICA 82P 5%	1
C127	J707353P6	CAP ELECT 4U7 25V	1			G4/G5/G6	
C128	J707809P27	CAP CER NPO 150P 5%	1	C169	A700006P9	CAP MICA 13P 5%	1
C129	J707809P27	CAP CER NPO 150P 5%	1			G1/G2/G3	
C130	A700006P32	CAP MICA 82P 5%	1	C169	A700006P22	CAP MICA 36P 5%	1
		G1/G2/G3				G4/G5/G6	
C130	A700006P30	CAP MICA 68P 5%	1	C170	J707809P8	CAP CER NPO 3P9 .25P	1
		G4/G5/G6				G1/G2/G3	
C131	A700006P41	CAP MICA 180P 5%	1	C170	J707809P13	CAP CER NPO 10P 5%	1
		G1/G2/G3				G4/G5/G6	
				C172	2113741M45	CAP CER CL2 10N 10%	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF611X : M905761GX BD. REV.2/R

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
C173	2113740A71	CAP CER NPO 470P 5%	1	C404	2113740A19	CAP CER NPO 4P7 .25P	1
C174	2113741A33	CAP CER CL2 3N3 10%	1	C405	2113741C17	CAP CER CL2 100N 10%	1
C175	2113741M21	CAP CER CL2 1N 10%	1	C406	2113740A21	CAP CER NPO 5P6 .25P	1
C176	2113741M45	CAP CER CL2 10N 10%	1	C407	2113740A19	CAP CER NPO 4P7 .25P	1
C177	2113740B73	CAP CER NPO 1N0 5%	1	C408	2113741M21	CAP CER CL2 1N 10%	1
C178	2113740B73	CAP CER NPO 1N0 5%	1	C409	2113741A33	CAP CER CL2 3N3 10%	1
C201	2113741C17	CAP CER CL2 100N 10%	1	C410	J707444P8	CAP TA SOL 22U 16V	1
C202	J707444P8	CAP TA SOL 22U 16V	1	C411	2113741C17	CAP CER CL2 100N 10%	1
C203	J707444P6	CAP TA SOL 4U7 35V	1	C412	2113741C17	CAP CER CL2 100N 10%	1
C204	2113740A71	CAP CER NPO 470P 5%	1	C413	2113740A33	CAP CER NPO 15P 5%	1
C205	J707412P9	CAP PYES 100N 10%	1	C414	2113741A33	CAP CER CL2 3N3 10%	1
C301	2113740A07	CAP CER NPO 1P5 .25P	1	C415	2113741A33	CAP CER CL2 3N3 10%	1
C302	2113741M21	CAP CER CL2 1N 10%	1	C416	J708702P16	CAP CER N750 18P 5%	1
C304	2113740A13	CAP CER NPO 2P7 .25P	1	C417	2113740A49	CAP CER NPO 56P 5%	1
C305	2113740A33	CAP CER NPO 15P 5%	1	C418	2113741M45	CAP CER CL2 10N 10%	1
C306	J707483P1	CAP PHEN 0P47 5%	1	C419	2113741C17	CAP CER CL2 100N 10%	1
C307	2113741M21	CAP CER CL2 1N 10%	1	C420	2113741M45	CAP CER CL2 10N 10%	1
C307	2113741A17	CAP CER CL2 680P 10%	1	C421	2113741C17	CAP CER CL2 100N 10%	1
C309	2113740A33	CAP CER NPO 15P 5%	1	C422	2113741C17	CAP CER CL2 100N 10%	1
C310	2113741M21	CAP CER CL2 1N 10%	1	C423	2113740A29	CAP CER NPO 10P 5%	1
C311	2113741M21	CAP CER CL2 1N 10%	1	C424	2113741A33	CAP CER CL2 3N3 10%	1
C312	2113740C19	CAP CER NPO 1N2 5%	1	C425	J707412P13	CAP PYES 270N 10% G3/G6	1
C314	2113740A11	CAP CER NPO 2P2 .25P	1	C425	J707444P5	CAP TA SOL 2U2 35V G1/2/4/5	1
C315	2113741M21	CAP CER CL2 1N 10%	1	C426	2113740C25	CAP CER NPO 2N2 5% G3/G6	1
C316	2113740A11	CAP CER NPO 2P2 .25P	1	C426	2113740B59	CAP CER NPO 270P 5% G1/2/4/5	1
C317	J707444P2	CAP TA SOL 0U22 35V	1	C427	2113740A67	CAP CER NPO 330P 5% G3/G6	1
C318	2113741M21	CAP CER CL2 1N 10%	1	C428	2113740A57	CAP CER NPO 120P 5% G1/2/4/5	1
C319	2113740A33	CAP CER NPO 15P 5%	1	C428	2113740A63	CAP CER NPO 220P 5% G3/G6	1
C320	2113741M21	CAP CER CL2 1N 10%	1	C429	2113741M45	CAP CER CL2 10N 10%	1
C322	J707483P7	CAP PHEN 1P00 5%	1	C430	J707444P8	CAP TA SOL 22U 16V	1
C323	J707483P5	CAP PHEN 0P68 5%	1	C431	J707444P8	CAP TA SOL 22U 16V	1
C324	J707483P4	CAP PHEN 0P56 5%	1	C432	2113741C17	CAP CER CL2 100N 10%	1
C325	2113741M21	CAP CER CL2 1N 10%	1	C433	2113741C17	CAP CER CL2 100N 10%	1
C326	2113740A33	CAP CER NPO 15P 5%	1	C434	2113741A33	CAP CER CL2 3N3 10%	1
C328	2113740A33	CAP CER NPO 15P 5%	1	C435	2113740A03	CAP CER NPO 1P0 .25P	1
C331	2113740A33	CAP CER NPO 15P 5%	1	C436	2113741C17	CAP CER CL2 100N 10%	1
C332	2113740A33	CAP CER NPO 15P 5%	1	C501	J707412P11	CAP PYES 220N 10%	1
C333	J707483P13	CAP PHEN 0P22 10%	1	C502	J707412P11	CAP PYES 220N 10%	1
C335	2113741M21	CAP CER CL2 1N 10%	1	C503	J707412P11	CAP PYES 220N 10%	1
C338	2113740A24	CAP CER NPO 6P8 .25P	1	C504	A700235P7	CAP CER N150 3P3 .25P	1
C339	2113741M21	CAP CER CL2 1N 10%	1	C505	A700235P4	CAP CER N150 1P8 .25P	1
C340	2113741A33	CAP CER CL2 3N3 10%	1	C506	A700235P12	CAP CER N150 8P2 .25P	1
C345	2113740A41	CAP CER NPO 33P 5%	1	C507	A700235P14	CAP CER N150 12P 5%	1
C347	2113741M21	CAP CER CL2 1N 10%	1	C508	A700235P32	CAP CER N150 11P 5%	1
C348	2113741M21	CAP CER CL2 1N 10%	1	C509	A700235P10	CAP CER N150 5P6 .25P	1
C350	2113740A07	CAP CER NPO 1P5 .25P	1	C510	A700235P16	CAP CER N150 18P 5%	1
C351	2113740A29	CAP CER NPO 10P 5%	1	C512	A700235P3	CAP CER N150 1P5 .25P	1
C353	J707483P2	CAP PHEN 0P33 5%	1	C513	2113741M13	CAP CER CL2 470P 10%	1
C354	2113740A29	CAP CER NPO 10P 5%	1	C515	2113740A27	CAP CER NPO 8P2 .25P	1
C355	J707483P8	CAP PHEN 1P20 5%	1	C516	2113740A24	CAP CER NPO 6P8 .25P	1
C356	2113741M21	CAP CER CL2 1N 10%	1	C517	J707444P6	CAP TA SOL 4U7 35V	1
C357	2113740A03	CAP CER NPO 1P0 .25P	1	C518	2113740A07	CAP CER NPO 1P5 .25P	1
C358	2113740A03	CAP CER NPO 1P0 .25P	1	C519	2113741M13	CAP CER CL2 470P 10%	1
C359	2113740A03	CAP CER NPO 1P0 .25P	1	C520	2113740A11	CAP CER NPO 2P2 .25P	1
C401	2113741A33	CAP CER CL2 3N3 10%	1	C521	2113740A31	CAP CER NPO 12P 5%	1
C402	2113741A33	CAP CER CL2 3N3 10%	1	C522	2113741M13	CAP CER CL2 470P 10%	1
C403	2113741A33	CAP CER CL2 3N3 10%	1	C523	2113740A11	CAP CER NPO 2P2 .25P	1
				C524	2113741M13	CAP CER CL2 470P 10%	1
				C525	2113741M13	CAP CER CL2 470P 10%	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF611X : M905761GX BD. REV.2/R

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
C526	2113741M13	CAP CER CL2 470P 10%	1	C668	2113740A55	CAP CER NPO 100P 5%	1
C527	2113741M13	CAP CER CL2 470P 10%	1	C701	2113740A37	CAP CER NPO 22P 5%	1
C528	2113741M13	CAP CER CL2 470P 10%	1	C702	J708702P22	CAP CER N750 56P 5%	1
C540	2113741M13	CAP CER CL2 470P 10%	1	C703	2113740A63	CAP CER NPO 220P 5%	1
C541	2113741M13	CAP CER CL2 470P 10%	1	C704	2113740A29	CAP CER NPO 10P 5%	1
C542	2113741M13	CAP CER CL2 470P 10%	1	C705	2113741M21	CAP CER CL2 1N 10%	1
C543	2113741M13	CAP CER CL2 470P 10%	1	C706	2113741M45	CAP CER CL2 10N 10%	1
C544	2113741M13	CAP CER CL2 470P 10%	1	C707	2113740A21	CAP CER NPO 5P6 .25P	1
C545	2113741M13	CAP CER CL2 470P 10%	1	C708	2113741M45	CAP CER CL2 10N 10%	1
C601	J707412P11	CAP PYES 220N 10%	1	C709	2113741M45	CAP CER CL2 10N 10%	1
C602	J707412P11	CAP PYES 220N 10%	1	D100	A700047P3	DIO SI SIG 1N6263	1
C603	J707412P11	CAP PYES 220N 10%	1	D101	J706892P1	DIO SI PIN UM 9401	1
C604	A700235P5	CAP CER N150 2P2 .25P	1	D102	J706892P1	DIO SI PIN UM 9401	1
C605	A700235P5	CAP CER N150 2P2 .25P	1	D103	J707390P1	DIO SI SIG BAV 74	1
C606	A700235P8	CAP CER N150 3P9 .25P	1	D300	J707928P2	DIO SI CAP BB 809	1
C607	A700235P10	CAP CER N150 5P6 .25P	1	D301	J707928P2	DIO SI CAP BB 809	1
C608	A700235P11	CAP CER N150 6P8 .25P	1	D302	J707928P2	DIO SI CAP BB 809	1
C609	A700235P36	CAP CER N150 7P5 .25P	1	D303	J707928P2	DIO SI CAP BB 809	1
C610	A700235P12	CAP CER N150 8P2 .25P	1	D304	J707928P2	DIO SI CAP BB 809	1
C611	2113740A15	CAP CER NPO 3P3 .25P	1	D305	J707928P2	DIO SI CAP BB 809	1
C612	2113740A19	CAP CER NPO 4P7 .25P	1	D306	J707928P2	DIO SI CAP BB 809	1
C613	J707444P6	CAP TA SOL 4U7 35V	1	D307	J707928P2	DIO SI CAP BB 809	1
C614	2113740A03	CAP CER NPO 1P0 .25P	1	D401	A700025P8	DIO SI ZENR 6V8 5% 0.4W	1
C615	2113740A71	CAP CER NPO 470P 5%	1	D501	J706007P1	DIO SI CAP BB 505B	1
C616	2113741M13	CAP CER CL2 470P 10%	1	D502	J706007P1	DIO SI CAP BB 505B	1
C617	2113740A03	CAP CER NPO 1P0 .25P	1	D503	J706007P1	DIO SI CAP BB 505B	1
C618	2113740A21	CAP CER NPO 5P6 .25P	1	D504	J707928P2	DIO SI CAP BB 809	1
C619	2113741M13	CAP CER CL2 470P 10%	1	D505	J707769P3	DIO SI CAP BBY 31	1
C620	2113740A11	CAP CER NPO 2P2 .25P	1	D601	J706007P1	DIO SI CAP BB 505B	1
C621	2113741M13	CAP CER CL2 470P 10%	1	D602	J706007P1	DIO SI CAP BB 505B	1
C624	2113740A63	CAP CER NPO 220P 5%	1	D603	J706007P1	DIO SI CAP BB 505B	1
C625	2113741C17	CAP CER CL2 100N 10%	1	D604	J706007P1	DIO SI CAP BB 505B	1
C626	2113741M21	CAP CER CL2 1N 10%	1	D605	J707389P1	DIO SI SIG BAV 99	1
C627	2113741M45	CAP CER CL2 10N 10%	1	D606	J708681P1	DIO SI SIG BAW 56	1
C628	2113740C25	CAP CER NPO 2N2 5%	1	D607	J707390P1	DIO SI SIG BAV 74	1
C629	2113740A59	CAP CER NPO 150P 5%	1	D608	J707390P1	DIO SI SIG BAV 74	1
C630	2113740A63	CAP CER NPO 220P 5%	1	D610	J708681P1	DIO SI SIG BAW 56	1
C631	2113740A63	CAP CER NPO 220P 5%	1	D701	J707928P2	DIO SI CAP BB 809	1
C632	2113741C17	CAP CER CL2 100N 10%	1	D702	J707390P1	DIO SI SIG BAV 74	1
C633	J707444P17	CAP TA SOL 47U 10V	1	L100	A700024P1	COIL RF FIX 0.1UH 10%	1
C634	2113741C17	CAP CER CL2 100N 10%	1	L101	A700024P1	COIL RF FIX 0.1UH 10%	1
C635	2113741M13	CAP CER CL2 470P 10%	1	L102	K805653G7	COIL ASM 5 1/2T	1
C636	J707444P17	CAP TA SOL 47U 10V	1	L103	J707339G1	COIL FIX ASM	1
C637	2113741C17	CAP CER CL2 100N 10%	1	L104	A700024P1	COIL RF FIX 0.1UH 10%	1
C639	2113741A33	CAP CER CL2 3N3 10%	1	L105	K805653G1	COIL ASM 1 1/2T	1
C640	J707412P9	CAP PYES 100N 10%	1	L106	J707256P2	COIL FIX	1
C641	J707412P13	CAP PYES 470N 10%	1	L107	J707339G1	COIL FIX ASM	1
C642	J707412P13	CAP PYES 470N 10%	1	L108	K805653G2	COIL ASM 2 1/2T G2/G2/G3	1
C643	2113741C09	CAP CER CL2 47N 10%	1	L108	K805653G6	COIL ASM 6 1/2T G4/G5/G6	1
C644	J707436P6	CAP CER NPO 2P7 .25P	1	L109	J707339G1	COIL FIX ASM	1
C652	2113741M21	CAP CER CL2 1N 10%	1	L110	J707256P1	COIL FIX G1/G2/G3	1
C653	J707444P6	CAP TA SOL 4U7 35V	1	L110	J707256P2	COIL FIX G4/G5/G6	1
C656	2113740A71	CAP CER NPO 470P 5%	1	L112	J707339G1	COIL FIX ASM	1
C657	2113741M13	CAP CER CL2 470P 10%	1	L113	A700024P13	COIL RF FIX 1.0UH 10%	1
C659	2113741M21	CAP CER CL2 1N 10%	1	L114	K805653G2	COIL ASM 2 1/2T G1/G2/G3	1
C660	2113741A41	CAP CER CL2 6N8 5%	1	L114	K805653G4	COIL ASM 4 1/2T G4/G5/G6	1
C665	2113741M13	CAP CER CL2 470P 10%	1	L115	J709287P1	CORE TOR FERR	1
C666	2113741M13	CAP CER CL2 470P 10%	1	L116	J709287P1	CORE TOR FERR G1/G2/G3	1
C667	2113741M13	CAP CER CL2 470P 10%	1	L117	K805653G4	COIL ASM 4 1/2T G1/G2/G3	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF611X : M905761GX BD. REV.2/R

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
L118	J707339G1	COIL FIX ASM G1/G2/G3	1	Q100	J707388P1	TSTR NPN SI BFR 53	1
L119	J709603P2	COIL G1/G2/G3	1	Q101	J707388P1	TSTR NPN SI BFR 53	1
L120	J707256P2	COIL FIX G1/G2/G3	1	Q102	A701940P1	TSTR NPN SI RF-PWR 0.4W	1
L120	J707256P1	COIL FIX G4/G5/G6	1	Q103	A700063P1	TSTR NPN SI RF-PWR 2.0W	1
L121	A700024P13	COIL RF FIX 1.0UH 10%	1	Q104	J709163P1	TSTR NPN SI RF-PWR 10W	1
L122	A700024P25	COIL RF FIX 10UH 10%	1	Q105	J708133P1	TSTR NPN SI RF-PWR 28W	1
L123	A700024P14	COIL RF FIX 1.2UH 10%	1			G1/G2/G3	
L124	K805653G5	COIL ASM 5 1/2T	1	Q106	J707432P1	TSTR PNP SI BCX 18	1
L125	K805653G6	COIL ASM 6 1/2T	1	Q107	J707386P1	TSTR NPN SI BCW 32	1
L126	K805653G5	COIL ASM 5 1/2T	1	Q108	J708406P1	TSTR NPN SI BD 233	1
L127	A700024P25	COIL RF FIX 10UH 10%	1	Q109	J707386P1	TSTR NPN SI BCW 32	1
L128	A700024P25	COIL RF FIX 10UH 10%	1	Q201	J707435P1	TSTR PNP SI BC 369	1
L129	A700024P13	COIL RF FIX 1.0UH 10%	1	Q202	J707386P1	TSTR NPN SI BCW 32	1
L130	K805653G2	COIL ASM 2 1/2T G1/G2/G3	1	Q203	J707432P1	TSTR PNP SI BCX 18	1
L130	K805653G1	COIL ASM 1 1/2T G4/G5/G6	1	Q204	J707386P1	TSTR NPN SI BCW 32	1
L131	K805653G3	COIL ASM 3 1/2T G1/G2/G3	1	Q301	J706011P2	TSTR NPN SI BFR 91A	1
L131	K805653G2	COIL ASM 2 1/2T G4/G5/G6	1	Q302	J708315P1	TSTR JFET SI 2N5245	1
L301	J709099P13	COIL RF VAR 4-1/2T TAP	1	Q401	J707817P1	TSTR JFET SI J 309	1
L302	J709099P13	COIL RF VAR 4-1/2T TAP	1	Q402	J707817P1	TSTR JFET SI J 309	1
L303	J707486P6	COIL RF FIX 0.47UH 10%	1	Q403	J707419P1	TSTR JFET SI BF511	1
L304	J709099P2	COIL RF VAR 4-1/2T TAP	1	Q404	J708418P1	TSTR NPN SI BFS 20	1
L305	J707486P2	COIL RF FIX 3.3UH 10%	1	Q405	J708418P1	TSTR NPN SI BFS 20	1
L306	J709099P7	COIL RF VAR 4-1/2T TAP	1	Q406	J708418P1	TSTR NPN SI BFS 20	1
L308	J709099P6	COIL RF VAR 4-1/2T TAP	1	Q407	J707386P1	TSTR NPN SI BCW 32	1
L310	J709099P2	COIL RF VAR 4-1/2T TAP	1	Q408	J707387P1	TSTR PNP SI BCW 30	1
L312	J708428P2	COIL RF VAR 45 MHZ	1	Q501	J707817P1	TSTR JFET SI J 309	1
L313	J709099P4	COIL RF VAR 3-1/2T TAP	1	Q502	J707388P1	TSTR NPN SI BFR 53	1
L314	J709099P3	COIL RF VAR 3-1/2T TAP	1	Q601	J707817P1	TSTR JFET SI J 309	1
L401	J707486P10	COIL RF FIX 1.5UH 10%	1	Q602	J707388P1	TSTR NPN SI BFR 53	1
L403	K805570G2	COIL ASM	1	Q603	J708318P1	TSTR PNP SI BFT 92	1
L404	K805570G1	COIL ASM	1	Q604	J707433P1	TSTR MFET SI BF 989	1
L405	J708428P1	COIL RF VAR 45 MHZ	1	Q605	J707386P1	TSTR NPN SI BCW 32	1
L406	K805570G3	COIL ASM	1	Q612	J707386P1	TSTR NPN SI BCW 32	1
L407	A700024P25	COIL RF FIX 10UH 10%	1	Q613	J707386P1	TSTR NPN SI BCW 32	1
L408	J708428P2	COIL RF VAR 45 MHZ	1	Q701	J707419P1	TSTR JFET SI BF511	1
L409	J707431P1	COIL RF VAR 455KHZ 25%	1	Q702	J707387P1	TSTR PNP SI BCW 30	1
L410	J707431P1	COIL RF VAR 455KHZ 25%	1	R000	J707385P332	RES MFLM 1/8W 3K3 5%	1
L501	A700024P13	COIL RF FIX 1.0UH 10%	1	R100	J707385P122	RES MFLM 1/8W 1K2 5%	1
L502	A700024P13	COIL RF FIX 1.0UH 10%	1	R101	J707385P472	RES MFLM 1/8W 4K7 5%	1
L503	A700024P13	COIL RF FIX 1.0UH 10%	1	R102	J707385P270	RES MFLM 1/8W 27R 5%	1
L504	A700024P13	COIL RF FIX 1.0UH 10%	1	R103	J707385P470	RES MFLM 1/8W 47R 5%	1
L505	L855671P1	COIL RADIO FREQUENCY	1	R104	J707385P102	RES MFLM 1/8W 1K0 5%	1
L506	A700024P13	COIL RF FIX 1.0UH 10%	1	R105	J707385P182	RES MFLM 1/8W 1K8 5%	1
L507	A700024P13	COIL RF FIX 1.0UH 10%	1	R106	J707385P470	RES MFLM 1/8W 47R 5%	1
L508	A700024P4	COIL RF FIX 0.18UH 10%	1	R107	J707385P680	RES MFLM 1/8W 68R 5%	1
L601	A700024P13	COIL RF FIX 1.0UH 10%	1	R108	J707385P560	RES MFLM 1/8W 56R 5%	1
L602	A700024P13	COIL RF FIX 1.0UH 10%	1	R109	J707385P100	RES MFLM 1/8W 10R 5%	1
L603	A700024P13	COIL RF FIX 1.0UH 10%	1	R110	J707385P100	RES MFLM 1/8W 10R 5%	1
L604	A700024P13	COIL RF FIX 1.0UH 10%	1	R111	J707385P100	RES MFLM 1/8W 10R 5%	1
L605	L855671P1	COIL RADIO FREQUENCY	1	R112	J707385P947	RES MFLM 1/8W 4R7 20%	1
L606	A700024P13	COIL RF FIX 1.0UH 10%	1	R113	J707385P100	RES MFLM 1/8W 10R 5%	1
L607	A700024P13	COIL RF FIX 1.0UH 10%	1	R114	J707385P947	RES MFLM 1/8W 4R7 20%	1
L608	A700024P2	COIL RF FIX 0.12UH 10%	1	R115	J707385P100	RES MFLM 1/8W 10R 5%	1
L609	K805653G10	COIL RF FIXED 10 1/2T	1			G1/G2/G3	
L701	K805570G4	COIL ASM	1	R116	J707385P220	RES MFLM 1/8W 22R 5%	1
L702	A700024P43	COIL RF FIX 330UH 10%	1			G1/G2/G3	
L703	A700024P27	COIL RF FIX 15UH 10%	1	R117	J707385P220	RES MFLM 1/8W 22R 5%	1
P102	J707064P112	CONN PWB FEM 12-CKT	1			G1/G2/G3	
P105	A701883P4	CONN PWB FEM RECP	1	R118	J707385P473	RES MFLM 1/8W 47K 5%	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF611X : M905761GX BD. REV.2/R

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R119	J707385P820	RES MFLM 1/8W 82R 5%	1	R305	J707385P900	RES MFLM 1/8W OR JUMPER	1
R120	J707385P820	RES MFLM 1/8W 82R 5%	1	R306	J707385P222	RES MFLM 1/8W 2K2 5%	1
R121	J707385P333	RES MFLM 1/8W 33K 5%	1	R307	J707385P681	RES MFLM 1/8W 680R 5%	1
R122	J707385P221	RES MFLM 1/8W 220R 5%	1	R308	J707385P470	RES MFLM 1/8W 47R 5%	1
R123	J707385P221	RES MFLM 1/8W 220R 5%	1	R309	J707385P270	RES MFLM 1/8W 27R 5%	1
R132	J708538P9	RES VAR CERM 200K 20%	1	R310	J707385P104	RES MFLM 1/8W 100K 5%	1
R133	J708538P4	RES VAR CERM 5K0 20%	1	R311	J707385P560	RES MFLM 1/8W 56R 5%	1
R134	J707385P100	RES MFLM 1/8W 10R 5%	1	R312	J707385P104	RES MFLM 1/8W 100K 5%	1
R135	J706147P2	RES THERM PTC 80R 25%	1	R314	J707385P104	RES MFLM 1/8W 100K 5%	1
R136	J707385P682	RES MFLM 1/8W 6K8 5%	1	R316	J707385P104	RES MFLM 1/8W 100K 5%	1
R137	J707385P223	RES MFLM 1/8W 22K 5%	1	R317	J707385P182	RES MFLM 1/8W 1K8 5%	1
R138	J707385P472	RES MFLM 1/8W 4K7 5%	1	R318	J707385P100	RES MFLM 1/8W 10R 5%	1
R139	J707385P472	RES MFLM 1/8W 4K7 5%	1	R319	J707385P101	RES MFLM 1/8W 100R 5%	1
R140	J707385P333	RES MFLM 1/8W 33K 5%	1	R321	J707385P270	RES MFLM 1/8W 27R 5%	1
R141	J707385P333	RES MFLM 1/8W 33K 5%	1	R322	J707385P391	RES MFLM 1/8W 390R 5%	1
R142	J707385P104	RES MFLM 1/8W 100K 5%	1	R323	J707385P104	RES MFLM 1/8W 100K 5%	1
R143	J707385P222	RES MFLM 1/8W 2K2 5%	1	R324	J707385P104	RES MFLM 1/8W 100K 5%	1
R144	J707385P222	RES MFLM 1/8W 2K2 5%	1	R325	J707385P100	RES MFLM 1/8W 10R 5%	1
R145	J707385P223	RES MFLM 1/8W 22K 5%	1	R326	J707385P392	RES MFLM 1/8W 3K9 5%	1
R146	J707385P104	RES MFLM 1/8W 100K 5%	1	R327	J707385P102	RES MFLM 1/8W 1K0 5%	1
R147	J707385P104	RES MFLM 1/8W 100K 5%	1	R401	J707385P560	RES MFLM 1/8W 56R 5%	1
R148	J707385P123	RES MFLM 1/8W 12K 5%	1	R402	J707385P100	RES MFLM 1/8W 10R 5%	1
R149	J707385P472	RES MFLM 1/8W 4K7 5%	1	R403	J707385P332	RES MFLM 1/8W 3K3 5%	1
R150	J707385P391	RES MFLM 1/8W 390R 5%	1	R405	J707385P100	RES MFLM 1/8W 10R 5%	1
R151	J707385P683	RES MFLM 1/8W 68K 5%	1	R406	J707385P820	RES MFLM 1/8W 82R 5%	1
R152	J707385P104	RES MFLM 1/8W 100K 5%	1	R407	J707385P470	RES MFLM 1/8W 47R 5%	1
R153	J707385P472	RES MFLM 1/8W 4K7 5%	1	R408	J707385P470	RES MFLM 1/8W 47R 5%	1
R154	J707385P274	RES MFLM 1/8W 270K 5%	1	R410	J707385P272	RES MFLM 1/8W 2K7 5%	1
R155	J707385P682	RES MFLM 1/8W 6K8 5%	1	R411	J707385P682	RES MFLM 1/8W 6K8 5%	1
R156	J707385P102	RES MFLM 1/8W 1K0 5%	1	R412	J707385P272	RES MFLM 1/8W 2K7 5%	1
R157	J707385P392	RES MFLM 1/8W 3K9 5%	1	R413	J707385P471	RES MFLM 1/8W 470R 5%	1
R158	J707385P472	RES MFLM 1/8W 4K7 5%	1	R414	J707385P220	RES MFLM 1/8W 22R 5%	1
R159	J707385P104	RES MFLM 1/8W 100K 5%	1	R415	J707385P222	RES MFLM 1/8W 2K2 5%	1
		G1/G2/G3		R416	J707385P562	RES MFLM 1/8W 5K6 5%	1
R159	J707385P102	RES MFLM 1/8W 1K0 5%	1	R417	J707385P103	RES MFLM 1/8W 10K 5%	1
		G4/G5/G6		R418	J707385P153	RES MFLM 1/8W 15K 5%	1
R160	J709725P1	RES THERM PTC 1K0	1	R419	J707385P182	RES MFLM 1/8W 1K8 5%	1
		G1/G2/G3		R420	J707385P182	RES MFLM 1/8W 1K8 5%	1
R161	J707385P331	RES MFLM 1/8W 330R 5%	1	R421	J707385P182	RES MFLM 1/8W 1K8 5%	1
		G1/G2/G3		R422	J707385P473	RES MFLM 1/8W 47K 5%	1
R162	J707385P331	RES MFLM 1/8W 330R 5%	1	R423	J707385P153	RES MFLM 1/8W 15K 5%	1
		G1/G2/G3		R424	J708538P5	RES VAR CERM 10K 20%	1
R163	J707385P561	RES MFLM 1/8W 560R 5%	1	R425	J707385P272	RES MFLM 1/8W 2K7 5% G3/G6	1
R164	J707385P471	RES MFLM 1/8W 470R 5%	1	R425	J707385P153	RES MFLM 1/8W 15K 5% G1/2/4/5	1
R165	J707385P391	RES MFLM 1/8W 390R 5%	1	R426	J707385P473	RES MFLM 1/8W 47K 5% G3/G6	1
		G1/G2/G3		R426	J707385P563	RES MFLM 1/8W 56K 5% G1/2/4/5	1
R201	J707385P561	RES MFLM 1/8W 560R 5%	1	R427	J707385P473	RES MFLM 1/8W 47K 5% G3/G6	1
R202	J707385P271	RES MFLM 1/8W 270R 5%	1	R427	J707385P393	RES MFLM 1/8W 39K 5%	1
R203	J707385P153	RES MFLM 1/8W 15K 5%	1			G1/G2/G4/G5	
R204	J707385P153	RES MFLM 1/8W 15K 5%	1	R428	J707385P563	RES MFLM 1/8W 56K 5% G3/G6	1
R205	J707385P472	RES MFLM 1/8W 4K7 5%	1	R428	J707385P273	RES MFLM 1/8W 27K 5%	1
R206	J707385P272	RES MFLM 1/8W 2K7 5%	1			G2/G3/G5/G6	
R207	J707385P563	RES MFLM 1/8W 56K 5%	1	R429	J707385P104	RES MFLM 1/8W 100K 5%	1
R208	J707385P563	RES MFLM 1/8W 56K 5%	1	R430	J707385P274	RES MFLM 1/8W 270K 5%	1
R209	J707385P271	RES MFLM 1/8W 270R 5%	1			G1/G2/G4/G5	
R301	J707385P471	RES MFLM 1/8W 470R 5%	1	R430	J707385P334	RES MFLM 1/8W 330K 5% G3/G6	1
R302	J707385P391	RES MFLM 1/8W 390R 5%	1	R431	J707385P473	RES MFLM 1/8W 47K 5%	1
R303	J707385P104	RES MFLM 1/8W 100K 5%	1	R432	J707385P473	RES MFLM 1/8W 47K 5%	1
R304	J707385P104	RES MFLM 1/8W 100K 5%	1	R433	J707385P271	RES MFLM 1/8W 270R 5%	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF611X : M905761GX BD. REV.2/R

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R434	J707385P102	RES MFLM 1/8W 1K0 5%	1	R625	J707385P470	RES MFLM 1/8W 47R 5%	1
R435	J706147P3	RES THERM PTC 250R 25%	1	R626	J707385P100	RES MFLM 1/8W 10R 5%	1
R436	J707385P392	RES MFLM 1/8W 3K9 5%	1	R627	J707385P103	RES MFLM 1/8W 10K 5%	1
R437	J707406P7	RES THERM NTC 220R 10%	1	R628	J707385P224	RES MFLM 1/8W 220K 5%	1
R438	J707385P222	RES MFLM 1/8W 2K2 5%	1	R629	J707385P393	RES MFLM 1/8W 39K 5%	1
R439	J707385P392	RES MFLM 1/8W 3K9 5%	1	R630	J707385P100	RES MFLM 1/8W 10R 5%	1
R440	J707385P392	RES MFLM 1/8W 3K9 5%	1	R631	J707385P824	RES MFLM 1/8W 820K 5%	1
R441	J707385P101	RES MFLM 1/8W 100R 5%	1	R632	J707385P223	RES MFLM 1/8W 22K 5%	1
R442	J708538P6	RES VAR CERM 20K 20%	1	R633	J707385P824	RES MFLM 1/8W 820K 5%	1
R444	J707385P473	RES MFLM 1/8W 47K 5%	1	R634	J707385P123	RES MFLM 1/8W 12K 5%	1
R445	J707385P273	RES MFLM 1/8W 27K 5%	1	R635	J707385P102	RES MFLM 1/8W 1K0 5%	1
R446	J707385P224	RES MFLM 1/8W 220K 5%	1	R636	J707385P332	RES MFLM 1/8W 3K3 5%	1
R447	J707385P392	RES MFLM 1/8W 3K9 5%	1	R637	J707385P181	RES MFLM 1/8W 180R 5%	1
R448	J707385P101	RES MFLM 1/8W 100R 5%	1	R638	J707385P154	RES MFLM 1/8W 150K 5%	1
R449	J707385P470	RES MFLM 1/8W 47R 5%	1	R639	J707385P682	RES MFLM 1/8W 6K8 5%	1
R450	J707385P103	RES MFLM 1/8W 10K 5%	1	R640	J707385P105	RES MFLM 1/8W 1M0 10%	1
R451	J707385P332	RES MFLM 1/8W 3K3 5%	1	R641	J707385P184	RES MFLM 1/8W 180K 5%	1
R452	J707385P332	RES MFLM 1/8W 3K3 5%	1	R642	J707385P184	RES MFLM 1/8W 180K 5%	1
R501	J707385P122	RES MFLM 1/8W 1K2 5%	1	R643	J707385P105	RES MFLM 1/8W 1M0 10%	1
R502	J707385P122	RES MFLM 1/8W 1K2 5%	1	R644	J707385P333	RES MFLM 1/8W 33K 5%	1
R503	J707385P122	RES MFLM 1/8W 1K2 5%	1	R645	J707385P103	RES MFLM 1/8W 10K 5%	1
R504	J707385P104	RES MFLM 1/8W 100K 5%	1	R646	J707385P682	RES MFLM 1/8W 6K8 5%	1
R505	J707385P104	RES MFLM 1/8W 100K 5%	1	R647	J707385P333	RES MFLM 1/8W 33K 5%	1
R506	J707385P104	RES MFLM 1/8W 100K 5%	1	R648	J707385P823	RES MFLM 1/8W 82K 5%	1
R508	J707385P103	RES MFLM 1/8W 10K 5%	1	R649	J707385P393	RES MFLM 1/8W 39K 5%	1
R509	J707385P910	RES MFLM 1/8W 1R0 20%	1	R650	J707385P393	RES MFLM 1/8W 39K 5%	1
R510	J707385P332	RES MFLM 1/8W 3K3 5%	1	R651	J707385P333	RES MFLM 1/8W 33K 5%	1
R512	J707385P561	RES MFLM 1/8W 560R 5%	1	R652	J707385P222	RES MFLM 1/8W 2K2 5%	1
R513	J707385P183	RES MFLM 1/8W 18K 5%	1	R653	J707385P333	RES MFLM 1/8W 33K 5%	1
R514	J707385P472	RES MFLM 1/8W 4K7 5%	1	R654	J707385P562	RES MFLM 1/8W 5K6 5%	1
R515	J707385P470	RES MFLM 1/8W 47R 5%	1	R655	J707385P183	RES MFLM 1/8W 18K 5%	1
R517	J707385P101	RES MFLM 1/8W 100R 5%	1	R656	J707385P393	RES MFLM 1/8W 39K 5%	1
R518	J707385P470	RES MFLM 1/8W 47R 5%	1	R657	J707385P823	RES MFLM 1/8W 82K 5%	1
R519	J707385P221	RES MFLM 1/8W 220R 5%	1	R658	J707385P154	RES MFLM 1/8W 150K 5%	1
R529	J707385P392	RES MFLM 1/8W 3K9 5%	1	R659	J707385P103	RES MFLM 1/8W 10K 5%	1
R601	J707385P122	RES MFLM 1/8W 1K2 5%	1	R660	J707385P333	RES MFLM 1/8W 33K 5%	1
R602	J707385P122	RES MFLM 1/8W 1K2 5%	1	R661	J707385P393	RES MFLM 1/8W 39K 5%	1
R603	J707385P122	RES MFLM 1/8W 1K2 5%	1	R662	J707385P473	RES MFLM 1/8W 47K 5%	1
R604	J707385P104	RES MFLM 1/8W 100K 5%	1	R663	J708538P6	RES VAR CERM 20K 20%	1
R605	J707385P104	RES MFLM 1/8W 100K 5%	1	R664	J707385P563	RES MFLM 1/8W 56K 5%	1
R606	J707385P104	RES MFLM 1/8W 100K 5%	1	R665	J707385P224	RES MFLM 1/8W 220K 5%	1
R607	J707385P561	RES MFLM 1/8W 560R 5%	1	R666	J707385P124	RES MFLM 1/8W 120K 5%	1
R608	J707385P221	RES MFLM 1/8W 220R 5%	1	R667	J707385P124	RES MFLM 1/8W 120K 5%	1
R609	J707385P472	RES MFLM 1/8W 4K7 5%	1	R668	J707385P122	RES MFLM 1/8W 1K2 5%	1
R610	J707385P183	RES MFLM 1/8W 18K 5%	1	R669	J707385P221	RES MFLM 1/8W 220R 5%	1
R611	J707385P271	RES MFLM 1/8W 270R 5%	1	R670	J707385P103	RES MFLM 1/8W 10K 5%	1
R612	J707385P222	RES MFLM 1/8W 2K2 5%	1	R671	J707385P562	RES MFLM 1/8W 5K6 5%	1
R613	J707385P101	RES MFLM 1/8W 100R 5%	1	R672	J707385P822	RES MFLM 1/8W 8K2 5%	1
R614	J707385P561	RES MFLM 1/8W 560R 5%	1	R673	J707385P822	RES MFLM 1/8W 8K2 5%	1
R615	J707385P272	RES MFLM 1/8W 2K7 5%	1	R674	J707385P101	RES MFLM 1/8W 100R 5%	1
R616	J707385P470	RES MFLM 1/8W 47R 5%	1	R675	J708538P5	RES VAR CERM 10K 20%	1
R617	J707385P683	RES MFLM 1/8W 68K 5%	1	R676	J707385P102	RES MFLM 1/8W 1K0 5%	1
R618	J707385P683	RES MFLM 1/8W 68K 5%	1	R677	J708538P5	RES VAR CERM 10K 20%	1
R619	J707385P104	RES MFLM 1/8W 100K 5%	1	R678	J707385P470	RES MFLM 1/8W 47R 5%	1
R620	J707385P271	RES MFLM 1/8W 270R 5%	1	R679	J707385P821	RES MFLM 1/8W 820R 5%	1
R621	J707385P561	RES MFLM 1/8W 560R 5%	1	R680	J708538P6	RES VAR CERM 20K 20%	1
R622	J707385P102	RES MFLM 1/8W 1K0 5%	1	R681	J707385P223	RES MFLM 1/8W 22K 5%	1
R623	J707385P224	RES MFLM 1/8W 220K 5%	1	R682	J707385P152	RES MFLM 1/8W 1K5 5%	1
R624	J707385P223	RES MFLM 1/8W 22K 5%	1	R683	J707385P223	RES MFLM 1/8W 22K 5%	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF611X : M905761GX BD. REV.2/R

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R684	J707385P183	RES MFLM 1/8W 18K 5%	1	Z403	J707446P1	FLTR CER 455K +/-10KHz G1/G4	1
R685	J707385P183	RES MFLM 1/8W 18K 5%	1	Z403	J707446P3	FLTR CER 455K +/-7.5KHz G2/G5	1
R686	J707385P103	RES MFLM 1/8W 10K 5%	1	Z403	J707446P4	FLTR CER 455K +/-4.5KHz G3/G6	1
R687	J707385P103	RES MFLM 1/8W 10K 5%	1		M905762P1R2	BD PW G1/G2/G3	1
R689	J707385P105	RES MFLM 1/8W 1M0 10%	1		M905762P2R2	BD PW G4/G5/G6	1
R690	J707385P124	RES MFLM 1/8W 120K 5%	1				
R691	J707385P273	RES MFLM 1/8W 27K 5%	1				
R692	J707385P223	RES MFLM 1/8W 22K 5%	1				
R693	J707385P105	RES MFLM 1/8W 1M0 10%	1				
R694	J707385P223	RES MFLM 1/8W 22K 5%	1				
R695	J707385P105	RES MFLM 1/8W 1M0 10%	1				
R696	J707385P223	RES MFLM 1/8W 22K 5%	1				
R697	J707385P105	RES MFLM 1/8W 1M0 10%	1				
R698	J707385P103	RES MFLM 1/8W 10K 5%	1				
R701	J708666P1	RES THERM NTC 5K 2%	1				
R702	A701250P420	RES MFLM 1/4W 158K 1%	1				
R703	A701250P178	RES MFLM 1/4W 634R 1%	1				
R704	A701250P342	RES MFLM 1/4W 2K7 1%	1				
R705	J708666P2	RES THERM NTC 20K 2%	1				
R706	J708666P2	RES THERM NTC 20K 2%	1				
R707	J707385P104	RES MFLM 1/8W 100K 5%	1				
R708	J707385P105	RES MFLM 1/8W 1M0 10%	1				
R709	J707385P181	RES MFLM 1/8W 180R 5%	1				
R710	J707385P101	RES MFLM 1/8W 100R 5%	1				
R711	J707385P223	RES MFLM 1/8W 22K 5%	1				
R712	J707385P154	RES MFLM 1/8W 150K 5%	1				
R713	J707385P821	RES MFLM 1/8W 820R 5%	1				
R714	J707385P104	RES MFLM 1/8W 100K 5%	1				
U100	J708165P2	IC LIN OP-AMP 324	1				
U201	J708333P1	IC LIN VR FIX 4785	1				
U401	J707449P1	IC LIN IF-AMP 3357	1				
U402	M905766G1	INT CKT SQ 4002 G1/G4	1				
U402	M905766G2	INT CKT SQ 4003 G3/G6	1				
U402	M905766G3	INT CKT SQ 4004 G2/G5	1				
U601	J707859P1	IC LIN OP-AMP 204	1				
U602	J707859P1	IC LIN OP-AMP 204	1				
U603	J707859P1	IC LIN OP-AMP 204	1				
U604	J707859P1	IC LIN OP-AMP 204	1				
U606	J707243P1	IC DIG REG 4094	1				
U607	J707374P3	IC PLL PRESC 12017	1				
U608	B800902P1	IC PLL SYN CUSTOM DES	1				
U609	J707859P1	IC LIN OP-AMP 204	1				
U610	J708503P2	IC LIN CMPAR LM 339	1				
U615	J708621P2	CPLR OPTO PC 827	1				
U616	J708503P2	IC LIN CMPAR LM 339	1				
W001	A700184P1	RES WIRE JMPR OR JUMPER	1				
W003	J707256P1	COIL FIX	1				
W004	J707256P1	COIL FIX	1				
W005	J708717P1	STRAP	1				
W006	J709241P1	STRAP	1				
W007	J709241P1	STRAP	1				
Y401	J708426P1	CRYSTAL UNIT 44.5450MHZ	1				
Y701	J707567P19	CRYSTAL UNIT 7.4000MHZ	1				
Z401	J708330P1	FLTR CRY 45.0 +/-7.5KHz G1/G4	1				
Z401	J708330P2	FLTR CRY 45.0 +/-6.0KHz G2/G5	1				
Z401	J708330P3	FLTR CRY 45.0 +/-3.75KHz G3/G6	1				
Z402	J707446P1	FLTR CER 455K +/-10KHz G1/G4	1				
Z402	J707446P3	FLTR CER 455K +/-7.5KHz G2/G5	1				
Z402	J707446P4	FLTR CER 455K +/-4-5KHz G3/G6	1				

NON REFERENCED ITEMS:
 J708966G1 HEAT SINK MODF 1
 K805569G2 SHIELD METALLIZED 1
 J706281P6 CORE SCREW FERR U 10 8
 J708561P3 COIL FIXED 1
 J708561P3 COIL FIXED 1
 J708561P3 COIL FIXED 1
 J706804P3 WASH INS CRY FOR HC-45/U 2
 J706804P2 WASH INS CRY FOR HC-18/U 2

PARTS LIST FOR RADIO FREQUENCY BOARD RF633X : M905892GX BD REV. 2/S

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENTS REVISED SINCE LAST EDITION ARE MARKED *					
	M906892G1	RF6332S25 CH. SPAC. 25kHz/25W OUT		C126	J709524P59	CAP CER RF 270P 5% G1/G2/G3	1
	M906892G2	RF6333S25 CH. SPAC. 20kHz/25W OUT		C126	J709524P49	CAP CER RF 100P 5% G4/G5/G6	1
	M906892G3	RF6334S25 CH. SPAC. 12.5kHz/25W OUT		C127	J709524P51	CAP CER RF 120P 5% G1/G2/G3	1
	M906892G4	RF6332S6 CH. SPAC. 25kHz/25W OUT		C127	J709524P45	CAP CER RF 68P 5% G4/G5/G6	1
	M906892G5	RF6333S6 CH. SPAC. 20kHz/25W OUT		C128	A700006P35	CAP MICA 110P 5% G1/G2/G3	1
	M906892G6	RF6334S6 CH. SPAC. 12.5kHz/25W OUT		C128	A700006P26	CAP MICA 47P 5% G4/G5/G6	1
C100	J707809P13	CAP CER NPO 10P 5%	1	C130	J707809P14	CAP CER NPO 12P 5%	1
C101	21R13741M25	CAP CER CL2 1N5 10%	1	C131	J707809P13	CAP CER NPO 10P 5%	1
C102	21R13741M29	CAP CER CL2 2N2 10%	1	C132	J707809P12	CAP CER NPO 8P2 .25P	1
C103	21R13740A59	CAP CER NPO 150P 5%	1	C133	J707809P13	CAP CER NPO 10P 5%	1
C104	J707809P15	CAP CER NPO 15P 5%	1	C134	J707353P6	CAP ELECT 4U7 .25V	1
C105	J707809P17	CAP CER NPO 22P 5%	1	C136	21R13741C05	CAP CER CL2 33N 5%	1
C106	J707809P15	CAP CER NPO 15P 5%	1	C137	21R13741M29	CAP CER CL2 2N2 10%	1
C107	21R13741M29	CAP CER CL2 2N2 10%	1	C138	21R13741M29	CAP CER CL2 2N2 10%	1
C108	21R13741M29	CAP CER CL2 2N2 10%	1	C139	21R13741M29	CAP CER CL2 2N2 10%	1
C109	J707809P25	CAP CER NPO 100P 5%	1	C140	21R13741M29	CAP CER CL2 2N2 10%	1
C110	J707809P23	CAP CER NPO 68P 5%	1	C141	21R13741M29	CAP CER CL2 2N2 10%	1
C110	J707809P17	CAP CER NPO 22P 5% G1/G2/G3 G4/G5/G6	1	C142	A700006P14	CAP MICA 18P 5%	1
C111	21R13741M29	CAP CER CL2 2N2 10%	1	C143	A700006P26	CAP MICA 47P 5%	1
C112	21R13741M45	CAP CER CL2 10N 10%	1	C144	A700006P26	CAP MICA 47P 5%	1
C113	21R13741M29	CAP CER CL2 2N2 10%	1	C145	A700006P18	CAP MICA 24P 5%	1
C114	21R13741M29	CAP CER CL2 2N2 10%	1	C146	21R13741M29	CAP CER CL2 2N2 10%	1
C115	J707809P27	CAP CER NPO 150P 5% G1/G2/G3	1	C147	21R13741M29	CAP CER CL2 2N2 10%	1
C115	J707809P23	CAP CER NPO 68P 5% G4/G5/G6	1	C148	21R13741M29	CAP CER CL2 2N2 10%	1
C116	J707809P27	CAP CER NPO 150P 5% G1/G2/G3	1	C149	21R13741M29	CAP CER CL2 2N2 10%	1
C116	J707809P24	CAP CER NPO 82P 5% G4/G5/G6	1	C150	J707809P10	CAP CER NPO 5P6 .25P G1/G2/G3	1
C117	J707809P27	CAP CER NPO 150P 5% G4/G5/G6	1	C150	J707809P12	CAP CER NPO 8P2 .25P G4/G5/G6	1
C118	J707809P27	CAP CER NPO 150P 5% G4/G5/G6	1	C151	J707809P10	CAP CER NPO 5P6 .25P G1/G2/G3	1
C119	J707809P27	CAP CER NPO 150P 5% G4/G5/G6	1	C151	J707809P12	CAP CER NPO 8P2 .25P G4/G5/G6	1
C120	J707353P6	CAP ELECT 4U7 25V	1	C152	21R13741M29	CAP CER CL2 2N2 10%	1
C121	21R13741M45	CAP CER CL2 10N 10%	1	C153	21R13741M29	CAP CER CL2 2N2 10%	1
C122	21R13741M29	CAP CER CL2 2N2 10%	1	C154	21R13741M29	CAP CER CL2 2N2 10%	1
C123	21R13741M45	CAP CER CL2 10N 10%	1	C155	21R13741M29	CAP CER CL2 2N2 10%	1
C124	21R13741M29	CAP CER CL2 2N2 10%	1	C156	J707353P3	CAP ELECT 0U47 .50V	1
C125	A700006P40	CAP MICA 170P 5% G1/G2/G3	1	C157	21R13741M29	CAP CER CL2 2N2 10%	1
C125	A700006P38	CAP MICA 150P 5% G4/G5/G6	1	C158	21R13741M29	CAP CER CL2 2N2 10%	1
				C159	21R13741M45	CAP CER CL2 10N 10%	1
				C160	21R13740A71	CAP CER NPO 470P 5%	1
				C161	21R13741M29	CAP CER CL2 2N2 10%	1
				C162	21R13741M45	CAP CER CL2 10N 10%	1
				C163	21R13741C05	CAP CER CL2 33N 5%	1
				C164	21R13741M29	CAP CER CL2 2N2 10%	1
				C165	J707809P16	CAP CER NPO 18P 5% G1/G2/G3	1
				C165	J707809P17	CAP CER NPO 22P 5% G4/G5/G6	1
				C166	21R13741M21	CAP CER CL2 1N0 10%	1
				C167	J707412P13	CAP PYES 470N 10%	1
				C168	21R13741M29	CAP CER CL2 2N2 10%	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF633X : M905892GX BD REV. 2/S

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
C169	J707809P1	CAP CER NPO 1P0 .25P	1	C409	21R13741A33	CAP CER CL2 3N3 5%	1
C170	21R13741M45	CAP CER CL2 10N 10%	1	C410	J707444P8	CAP TA SOL 22U 16V	1
C171	21R13741M45	CAP CER CL2 10N 10%	1	C411	21R13741C17	CAP CER CL2 100N 5%	1
C172	21R13741M45	CAP CER CL2 10N 10%	1	C412	21R13741C17	CAP CER CL2 100N 5%	1
C201	21R13741C17	CAP CER CL2 100N 5%	1	C413	21R13740A41	CAP CER NPO 33P 5%	1
C202	J707444P8	CAP TA SOL 22U 16V	1	C414	21R13741A33	CAP CER CL2 3N3 5%	1
C203	J706005P12	CAP ELECT 47U 40V	1	C415	21R13740A63	CAP CER NPO 220P 5%	1
C204	21R13741M29	CAP CER CL2 2N2 10%	1	C416	21R13740A57	CAP CER NPO 120P 5%	1
C205	J707412P9	CAP PYES 100N 10%	1	C417	21R13740A39	CAP CER NPO 27P 5%	1
C206	J707444P4	CAP TA SOL 1U 35V	1	C418	21R13741M45	CAP CER CL2 10N 10%	1
C301	21R13740A63	CAP CER NPO 220P 5%	1	C419	21R13741C17	CAP CER CL2 100N 5%	1
C302	21R13741M21	CAP CER CL2 1N0 10%	1	C420	21R13741M45	CAP CER CL2 10N 10%	1
C304	21R13740A21	CAP CER NPO 5P6 .25P	1	C421	21R13741C17	CAP CER CL2 100N 5%	1
C305	21R13740A39	CAP CER NPO 27P 5%	1	C422	21R13741C17	CAP CER CL2 100N 5%	1
C306	J707483P4	CAP PHEN 0P56 5%	1	C423	21R13740A29	CAP CER NPO 10P 5%	1
C307	21R13741M21	CAP CER CL2 1N0 10%	1	C424	21R13741A33	CAP CER CL2 3N3 5%	1
C309	21R13740A39	CAP CER NPO 27P 5%	1	C425	J707444P5	CAP TA SOL 2U2 35V	1
C310	21R13741M21	CAP CER CL2 1N0 10%	1			G1/G2/G4/G5	
C311	21R13740A21	CAP CER NPO 5P6 .25P	1	C425	J707412P13	CAP PYES 470N 10%	1
C312	21R13740C19	CAP CER NPO 1N2 5%	1			G3/G6	
C315	21R13740A21	CAP CER NPO 5P6 .25P	1	C426	2113740B59	CAP CER NPO 270P 5%	1
C317	J707444P2	CAP TA SOL 0U22 35V	1			G1/G2/G4/G5	
C318	21R13741M21	CAP CER CL2 1N0 10%	1	C426	21R13740C25	CAP CER NPO 2N2 5%	1
C319	21R13740A39	CAP CER NPO 27P 5%	1			G3/G6	
C320	21R13741M21	CAP CER CL2 1N0 10%	1	C427	21R13740A67	CAP CER NPO 330P 5%	1
C322	J707483P7	CAP PHEN 1P00 5%	1			G3/G6	
C323	J707483P6	CAP PHEN 0P82 5%	1	C428	2113740A57	CAP CER NPO 120P 5%	1
C324	21R13740A15	CAP CER NPO 3P3 .25P	1			G1/G2/G4/G5	
C325	21R13741M21	CAP CER CL2 1N0 10%	1	C428	21R13740A65	CAP CER NPO 270P 5%	1
C326	21R13740A39	CAP CER NPO 27P 5%	1			G3/G6	
C328	21R13740A39	CAP CER NPO 27P 5%	1	C429	21R13741M45	CAP CER CL2 10N 10%	1
C331	J707483P6	CAP PHEN 0P82 5%	1	C430	J707444P8	CAP TA SOL 22U 16V	1
C332	21R13740A39	CAP CER NPO 27P 5%	1	C431	J707444P8	CAP TA SOL 22U 16V	1
C333	21R13740A15	CAP CER NPO 3P3 .25P	1	C432	21R13741C17	CAP CER CL2 100N 5%	1
C334	21R13740A17	CAP CER NPO 3P9 .25P	1	C433	21R13741C17	CAP CER CL2 100N 5%	1
C335	21R13741M21	CAP CER CL2 1N0 10%	1	C434	21R13741A33	CAP CER CL2 3N3 5%	1
C338	21R13740A41	CAP CER NPO 33P 5%	1	C435	21R13740A03	CAP CER NPO 1P0 .25P	1
C339	21R13741M21	CAP CER CL2 1N0 10%	1	C436	21R13741C17	CAP CER CL2 100N 5%	1
C340	21R13741A33	CAP CER CL2 3N3 5%	1	C437	21R13740A46	CAP CER NPO 47P 5%	1
C345	21R13741M21	CAP CER CL2 1N0 10%	1	C438	21R13741M45	CAP CER CL2 10N 10%	1
C347	21R13741M21	CAP CER CL2 1N0 10%	1	C501	J707412P11	CAP PYES 220N 10%	1
C348	21R13741M21	CAP CER CL2 1N0 10%	1	C502	J707412P11	CAP PYES 220N 10%	1
C350	21R13740A21	CAP CER NPO 5P6 .25P	1	C504	A700235P16	CAP CER N150 18P 5%	1
C351	21R13740A35	CAP CER NPO 18P 5%	1	C505	A700235P11	CAP CER N150 6P8 .25P	1
C353	J707483P8	CAP PHEN 1P20 5%	1	C506	A700235P20	CAP CER N150 39P 5%	1
C354	21R13740A35	CAP CER NPO 18P 5%	1	C507	A700235P19	CAP CER N150 33P 5%	1
C355	21R13740A19	CAP CER NPO 4P7 .25P	1	C508	A700235P25	CAP CER N150 100P 5%	1
C356	21R13741M21	CAP CER CL2 1N0 10%	1	C509	21R13740A19	CAP CER NPO 4P7 .25P	1
C357	21R13740A03	CAP CER NPO 1P0 .25P	1	C512	21R13740A17	CAP CER NPO 3P9 .25P	1
C358	21R13740A03	CAP CER NPO 1P0 .25P	1	C513	21R13741A09	CAP CER CL2 330P 5%	1
C359	21R13741M21	CAP CER CL2 1N0 10%	1	C514	21R13741M25	CAP CER CL2 1N5 10%	1
C401	21R13741A33	CAP CER CL2 3N3 5%	1	C517	J707444P6	CAP TA SOL 4U7 35V	1
C402	21R13741A33	CAP CER CL2 3N3 5%	1	C518	21R13740A05	CAP CER NPO 1P2 .25P	1
C403	21R13741A33	CAP CER CL2 3N3 5%	1	C519	21R13741M25	CAP CER CL2 1N5 10%	1
C404	21R13740A41	CAP CER NPO 33P 5%	1	C520	21R13740A63	CAP CER NPO 220P 5%	1
C405	21R13741C17	CAP CER CL2 100N 5%	1	C521	21R13740A37	CAP CER NPO 22P 5%	1
C406	21R13740A21	CAP CER NPO 5P6 .25P	1	C522	21R13741M25	CAP CER CL2 1N5 10%	1
C407	21R13740A39	CAP CER NPO 27P 5%	1	C523	21R13740A11	CAP CER NPO 2P2 .25P	1
C408	21R13741M21	CAP CER CL2 1N0 10%	1	C524	21R13741M13	CAP CER CL2 470P 10%	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF633X : M905892GX BD REV. 2/S

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
C525	21R13741M13	CAP CER CL2 470P 10%	1	C660	21R13741M45	CAP CER CL2 10N 10%	1
C527	21R13741M13	CAP CER CL2 470P 10%	1	C666	21R13741M13	CAP CER CL2 470P 10%	1
C528	21R13741C17	CAP CER CL2 100N 5%	1	C667	21R13741M13	CAP CER CL2 470P 10%	1
C540	21R13741M13	CAP CER CL2 470P 10%	1	C701	21R13740A37	CAP CER NPO 22P 5%	1
C541	21R13741M13	CAP CER CL2 470P 10%	1	C702	J708702P22	CAP CER N750 56P 5%	1
C543	21R13741M13	CAP CER CL2 470P 10%	1	C703	21R13740A63	CAP CER NPO 220P 5%	1
C544	21R13741M13	CAP CER CL2 470P 10%	1	C705	21R13741M21	CAP CER CL2 1N0 10%	1
C545	21R13740A55	CAP CER NPO 100P 5%	1	C706	21R13741M45	CAP CER CL2 10N 10%	1
C601	J707412P11	CAP PYES 220N 10%	1	C707	21R13740A21	CAP CER NPO 5P6 .25P	1
C602	J707412P11	CAP PYES 220N 10%	1	C708	21R13741M45	CAP CER CL2 10N 10%	1
C603	21R13741C17	CAP CER CL2 100N 5%	1	C709	21R13741M45	CAP CER CL2 10N 10%	1
C604	A700235P13	CAP CER N150 10P 5%	1	D100	A700047P3	DIO SI SIG 1N6263	1
C605	A700235P10	CAP CER N150 5P6 .25P	1	D101	J706892P1	DIO SI PIN UM 940	1
C606	A700235P38	CAP CER N150 16P 5%	1	D102	J706892P1	DIO SI PIN UM 940	1
C607	A700235P11	CAP CER N150 6P8 .25P	1	D103	J707390P1	DIO SI SIG BAV 74	1
C608	A700233P9	CAP CER CL2 2N2 20%	1	D300	J707928P2	DIO SI CAP BB 809	1
C610	21R13740A55	CAP CER NPO 100P 5%	1	D301	J707928P2	DIO SI CAP BB 809	1
C611	21R13740A13	CAP CER NPO 2P7 .25P	1	D302	J707928P2	DIO SI CAP BB 809	1
C612	21R13741M25	CAP CER CL2 1N5 10%	1	D303	J707928P2	DIO SI CAP BB 809	1
C613	J707444P6	CAP TA SOL 4U7 35V	1	D304	J707928P2	DIO SI CAP BB 809	1
C614	21R13741M25	CAP CER CL2 1N5 10%	1	D305	J707928P2	DIO SI CAP BB 809	1
C615	21R13741M37	CAP CER CL2 4N7 10%	1	D306	J707928P2	DIO SI CAP BB 809	1
C616	21R13741M25	CAP CER CL2 1N5 10%	1	D307	J707928P2	DIO SI CAP BB 809	1
C617	21R13740A49	CAP CER NPO 56P 5%	1	D401	A700025P8	DIO SI ZENR 6V8,5% 0.4W	1
C618	21R13740A03	CAP CER NPO 1P0 .25P	1	D501	J707928P2	DIO SI CAP BB 809	1
C619	21R13741M25	CAP CER CL2 1N5 10%	1	D502	J707928P2	DIO SI CAP BB 809	1
C620	21R13740A55	CAP CER NPO 100P 5%	1	D503	J707928P2	DIO SI CAP BB 809	1
C621	21R13740A33	CAP CER NPO 15P 5%	1	D504	J707928P2	DIO SI CAP BB 809	1
C622	21R13740A07	CAP CER NPO 1P5 .25P	1	D505	J707928P2	DIO SI CAP BB 809	1
C623	21R13741C17	CAP CER CL2 100N 5%	1	D506	J707769P3	DIO SI CAP B8Y 31	1
C624	21R13740A55	CAP CER NPO 100P 5%	1	D601	J707928P2	DIO SI CAP BB 809	1
C625	21R13741M25	CAP CER CL2 1N5 10%	1	D602	J707928P2	DIO SI CAP BB 809	1
C626	21R13741M21	CAP CER CL2 1N0 10%	1	D603	J709536P1	DIO SI CAP MV 211	1
C627	21R13741C17	CAP CER CL2 100N 5%	1	D604	J709536P1	DIO SI CAP MV 211	1
C628	21R13740A15	CAP CER NPO 3P3 .25P	1	D605	J707389P1	DIO SI SIG BAV 99	1
C629	21R13740A59	CAP CER NPO 150P 5%	1	D606	J708681P1	DIO SI SIG BAW 56	1
C630	21R13741C17	CAP CER CL2 100N 5%	1	D607	J707390P1	DIO SI SIG BAV 74	1
C631	21R13741M25	CAP CER CL2 1N5 10%	1	D608	J707390P1	DIO SI SIG BAV 74	1
C632	J707444P6	CAP TA SOL 4U7 35V	1	D610	J708681P1	DIO SI SIG BAW 56	1
C633	J707444P17	CAP TA SOL 47U 10V	1	D701	A700073P1	DIO SI CAP BB 409	1
C634	21R13741C17	CAP CER CL2 100N 5%	1	D702	J707390P1	DIO SI SIG BAV 74	1
C635	21R13741M05	CAP CER CL2 220P 10%	1	L100	K805653G9	COIL ASM 9 1/2T	1
C636	J707444P17	CAP TA SOL 47U 10V	1	L101	A700024P7	COIL RF FIX 0.33UH 10%	1
C637	21R13741C17	CAP CER CL2 100N 5%	1	L102	A700024P3	COIL RF FIX 0.15UH 10%	1
C638	21R13741M21	CAP CER CL2 1N0 10%	1	L103	A700024P12	COIL RF FIX 0.82UH 10%	1
C639	21R13741A33	CAP CER CL2 3N3 5%	1	L104	K805653G2	COIL ASM 2 1/2T	1
C640	J707412P8	CAP PYES 68N 10%	1	L105	K805653G5	COIL ASM 5 1/2T	1
C641	J707412P13	CAP PYES 470N 10%	1			G1/G2/G3	
C642	J707412P13	CAP PYES 470N 10%	1	L105	K805653G8	COIL ASM 8 1/2T	1
C643	21R13741C17	CAP CER CL2 100N 5%	1			G4/G5/G6	
C644	21R13740A13	CAP CER NPO 2P7 .25P	1	L106	J707339G1	COIL FIX ASM	1
C646	21R13740A57	CAP CER NPO 120P 5%	1	L107	K805653G4	COIL ASM 4 1/2T	1
C647	21R13740A29	CAP CER NPO 10P 5%	1	L108	A700024P3	COIL RF FIX 0.15UH 10%	1
C652	21R13741C09	CAP CER CL2 47N 5%	1	L109	J707256P2	COIL FIX	1
C653	J707444P6	CAP TA SOL 4U7 35V	1	L110	J709287P1	CORE TOR FERR	1
C654	A700005P9	CAP PYES 22N 10%	1	L111	J707256P1	COIL FIX	1
C656	21R13741M13	CAP CER CL2 470P 10%	1			G1/G2/G3	
C657	21R13741M13	CAP CER CL2 470P 10%	1	L111	K805653G1	COIL ASM 1 1/2T	1
C659	21R13741M21	CAP CER CL2 1N0 10%	1			G4/G5/G6	

PARTS LIST FOR RADIO FREQUENCY BOARD RF633X : M905892GX BD REV. 2/S

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
L113	A700024P3	COIL RF FIX 0.15UH 10%	1	Q106	J707432P1	TSTR PNP SI BCX 18	1
L114	J709287P1	CORE TOR FERR	1	Q107	J707386P1	TSTR NPN SI BCW 32	1
L115	J707256P2	COIL FIX	1	Q108	J708406P1	TSTR NPN SI BD 233	1
L116	J709287P1	CORE TOR FERR	1	Q109	J707386P1	TSTR NPN SI BCW 32	1
L117	J709603P2	COIL G1/ 2/G3	1	Q201	J707435P1	TSTR PNP SI BC 369	1
L117	K805653G6	COIL ASM 6 1/2T G4/ 5/G6	1	Q202	J707386P1	TSTR NPN SI BCW 32	1
L118	J709603P1	COIL G1/ 2/G3	1	Q203	J707432P1	TSTR PNP SI BCX 18	1
L118	J707426P6	COIL FIX G4/ 5/G6	1	Q204	J707386P1	TSTR NPN SI BCW 32	1
L121	A700024P18	COIL RF FIX 2.7UH 10%	1	Q301	J706011P2	TSTR NPN SI BFR 91	1
L122	A700024P25	COIL RF FIX 10UH 10%	1	Q302	J707817P1	TSTR JFET SI J 309	1
L123	A700024P25	COIL RF FIX 10UH 10%	1	Q401	J707817P1	TSTR JFET SI J 309	1
L124	K805653G7	COIL ASM 7 1/2 T	1	Q402	J707817P1	TSTR JFET SI J 309	1
L125	K805653G7	COIL ASM 7 1/2 T	1	Q403	J707419P1	TSTR JFET SI BF511	1
L126	K805653G8	COIL ASM 8 1/2T	1	Q404	J708418P1	TSTR NPN SI BFS 20	1
L127	A700024P25	COIL RF FIX 10UH 10%	1	Q405	J708418P1	TSTR NPN SI BFS 20	1
L128	A700024P25	COIL RF FIX 10UH 10%	1	Q406	J708418P1	TSTR NPN SI BFS 20	1
L301	J709099P8	COIL RF VAR 7-1/2	1	Q407	J707386P1	TSTR NPN SI BCW 32	1
L302	J709099P15	COIL RF VAR 7-1/2 ,TAP	1	Q408	J707387P1	TSTR PNP SI BCW 30	1
L303	J707486P11	COIL RF FIX 2.2UH 10%	1	Q501	J707817P1	TSTR JFET SI J 309	1
L304	J709099P8	COIL RF VAR 7-1/2	1	Q502	J708318P1	TSTR PNP SI BFT 92	1
L305	J707486P2	COIL RF FIX 3.3UH 10%	1	Q601	J707817P1	TSTR JFET SI J 309	1
L306	J709099P8	COIL RF VAR 7-1/2	1	Q603	J708318P1	TSTR PNP SI BFT 92	1
L308	J709099P8	COIL RF VAR 7-1/2	1	Q604	J707433P1	TSTR MFET SI BF 989	1
L310	J709099P9	COIL RF VAR 7-1/2 ,TAP	1	Q605	J707386P1	TSTR NPN SI BCW 32	1
L312	J708428P1	COIL RF VAR 45 MHZ	1	Q612	J707386P1	TSTR NPN SI BCW 32	1
L313	J709099P12	COIL RF VAR 5-1/2 ,TAP	1	Q613	J707386P1	TSTR NPN SI BCW 32	1
L314	J709099P14	COIL RF VAR 5-1/2 ,TAP	1	Q701	J707419P1	TSTR JFET SI BF511	1
L401	J707486P3	COIL RF FIX 6.8UH 10%	1	Q702	J707387P1	TSTR PNP SI BCW 30	1
L403	K805570G6	COIL ASM	1	R000	J707385P332	RES MFLM 1/8W 3K3 5%	1
L405	J708428P1	COIL RF VAR 45 MHZ	1	R100	J707385P101	RES MFLM 1/8W 100R 5%	1
L406	K805570G5	COIL ASM	1			G4/G5/G6	
L407	A700024P25	COIL RF FIX 10UH 10%	1	R101	J707385P470	RES MFLM 1/8W 47R 5%	1
L408	J708428P1	COIL RF VAR 45 MHZ	1	R102	J707385P471	RES MFLM 1/8W 470R 5%	1
L409	J707431P1	COIL RF VAR 455KHZ 25%	1	R103	J707385P390	RES MFLM 1/8W 39R 5%	1
L410	J707431P1	COIL RF VAR 455KHZ 25%	1	R104	J707385P331	RES MFLM 1/8W 330R 5%	1
L501	A700024P21	COIL RF FIX 4.7UH 10%	1	R105	J707385P122	RES MFLM 1/8W 1K2 5%	1
L502	A700024P21	COIL RF FIX 4.7UH 10%	1	R106	J707385P100	RES MFLM 1/8W 10R 5%	1
L504	A700024P21	COIL RF FIX 4.7UH 10%	1	R107	J707385P100	RES MFLM 1/8W 10R 5%	1
L505	L855671P2	COIL RADIO FREQUENCY	1	R108	J707385P560	RES MFLM 1/8W 56R 5%	1
L506	A700024P21	COIL RF FIX 4.7UH 10%	1	R109	J707385P100	RES MFLM 1/8W 10R 5%	1
L508	A700024P5	COIL RF FIX 0.22UH 10%	1	R110	J707385P100	RES MFLM 1/8W 10R 5%	1
L601	A700024P21	COIL RF FIX 4.7UH 10%	1			G1/G2/G3	
L602	A700024P21	COIL RF FIX 4.7UH 10%	1	R110	J707385P910	RES MFLM 1/8W 1R0 20%	1
L604	A700024P21	COIL RF FIX 4.7UH 10%	1			G4/G5/G6	
L605	L855671P2	COIL RADIO FREQUENCY	1	R111	J707385P220	RES MFLM 1/8W 22R 5%	1
L606	A700024P21	COIL RF FIX 4.7UH 10%	1	R112	J707385P947	RES MFLM 1/8W 4R7 20%	1
L607	A700024P4	COIL RF FIX 0.18UH 10%	1	R113	J707385P100	RES MFLM 1/8W 10R 5%	1
L701	K805570G7	COIL ASM	1	R114	J707385P910	RES MFLM 1/8W 1R0 20%	1
L702	A700024P43	COIL RF FIX 330UH 10%	1			G1/G2/G3	
L703	A700024P27	COIL RF FIX 15UH 10%	1	R114	J707385P918	RES MFLM 1/8W 1R8 20%	1
P102	J707064P112	CONN PWB FEM 1 -CKT	1			G4/G5/G6	
P105	A701883P4	CONN PWB FEM RECP	1	R115	J707385P910	RES MFLM 1/8W 1R0 20%	1
Q100	J707388P1	TSTR NPN SI BFR 53	1			G1/G2/G3	
Q101	A701940P1	TSTR NPN SI RF-PWR 0.4W	1	R115	J707385P918	RES MFLM 1/8W 1R8 20%	1
Q102	J709517P1	TSTR NPN SI RF-PWR 3W	1			G4/G5/G6	
Q103	J709162P1	TSTR NPN SI RF-PWR 27W	1	R116	J707385P121	RES MFLM 1/8W 120R 5%	1
		G1/G2/G3		R117	J707385P220	RES MFLM 1/8W 22R 5%	1
Q103	J709163P1	TSTR NPN SI RF-PWR 10W	1	R118	J707385P473	RES MFLM 1/8W 47K 5%	1
		G4/G5/G6		R119	J707385P820	RES MFLM 1/8W 82R 5%	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF633X : M905892GX BD REV. 2/S

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R120	J707385P820	RES MFLM 1/8W 82R 5%	1	R208	J707385P563	RES MFLM 1/8W 56K 5%	1
R121	J707385P333	RES MFLM 1/8W 33K 5%	1	R209	J707385P271	RES MFLM 1/8W 270R 5%	1
R122	J707385P221	RES MFLM 1/8W 220R 5%	1	R210	J707385P331	RES MFLM 1/8W 330R 5%	1
R123	J707385P221	RES MFLM 1/8W 220R 5%	1	R301	J707385P331	RES MFLM 1/8W 330R 5%	1
R124	J707385P101	RES MFLM 1/8W 100R 5%	1	R302	J707385P392	RES MFLM 1/8W 3K9 5%	1
R124	J707385P221	RES MFLM 1/8W 220R 5%	1	R303	J707385P104	RES MFLM 1/8W 100K 5%	1
		G1/G2/G3		R304	J707385P104	RES MFLM 1/8W 100K 5%	1
		G4/G5/G6		R306	J707385P272	RES MFLM 1/8W 2K7 5%	1
R125	J707385P330	RES MFLM 1/8W 33R 5%	1	R307	J707385P681	RES MFLM 1/8W 680R 5%	1
R126	J707385P330	RES MFLM 1/8W 33R 5%	1	R308	J707385P470	RES MFLM 1/8W 47R 5%	1
R127	J707385P330	RES MFLM 1/8W 33R 5%	1	R309	J707385P270	RES MFLM 1/8W 27R 5%	1
R128	J707385P100	RES MFLM 1/8W 10R 5%	1	R310	J707385P104	RES MFLM 1/8W 100K 5%	1
R129	J707385P121	RES MFLM 1/8W 120R 5%	1	R311	J707385P101	RES MFLM 1/8W 100R 5%	1
R129	J707385P560	RES MFLM 1/8W 56R 5%	1	R312	J707385P104	RES MFLM 1/8W 100K 5%	1
		G1/G2/G3		R313	J707385P123	RES MFLM 1/8W 12K 5%	1
		G4/G5/G6		R314	J707385P104	RES MFLM 1/8W 100K 5%	1
R130	J707385P121	RES MFLM 1/8W 120R 5%	1	R315	J707385P822	RES MFLM 1/8W 8K2 5%	1
R130	J707385P560	RES MFLM 1/8W 56R 5%	1	R316	J707385P104	RES MFLM 1/8W 100K 5%	1
		G1/G2/G3		R317	J707385P471	RES MFLM 1/8W 470R 5%	1
		G4/G5/G6		R318	J707385P100	RES MFLM 1/8W 10R 5%	1
R131	J707385P392	RES MFLM 1/8W 3K9 5%	1	R319	J707385P101	RES MFLM 1/8W 100R 5%	1
R132	J708538P9	RES VAR CERM 200K 20%	1	R320	J707385P222	RES MFLM 1/8W 2K2 5%	1
R133	J708538P4	RES VAR CERM 5K0 20%	1	R321	J707385P270	RES MFLM 1/8W 27R 5%	1
R134	J707385P100	RES MFLM 1/8W 10R 5%	1	R322	J707385P471	RES MFLM 1/8W 470R 5%	1
R135	J706147P2	RES THERM PTC 80R 25%	1	R323	J707385P104	RES MFLM 1/8W 100K 5%	1
R136	J707385P682	RES MFLM 1/8W 6K8 5%	1	R324	J707385P104	RES MFLM 1/8W 100K 5%	1
R137	J707385P223	RES MFLM 1/8W 22K 5%	1	R325	J707385P100	RES MFLM 1/8W 10R 5%	1
R138	J707385P472	RES MFLM 1/8W 4K7 5%	1	R327	J707385P123	RES MFLM 1/8W 12K 5%	1
R139	J707385P472	RES MFLM 1/8W 4K7 5%	1	R328	J707385P332	RES MFLM 1/8W 3K3 5%	1
R140	J707385P333	RES MFLM 1/8W 33K 5%	1	R329	J707385P102	RES MFLM 1/8W 1K0 5%	1
R141	J707385P333	RES MFLM 1/8W 33K 5%	1	R401	J707385P390	RES MFLM 1/8W 39R 5%	1
R142	J707385P104	RES MFLM 1/8W 100K 5%	1	R402	J707385P100	RES MFLM 1/8W 10R 5%	1
R143	J707385P222	RES MFLM 1/8W 2K2 5%	1	R403	J707385P222	RES MFLM 1/8W 2K2 5%	1
R144	J707385P222	RES MFLM 1/8W 2K2 5%	1	R404	J707385P472	RES MFLM 1/8W 4K7 5%	1
R145	J707385P223	RES MFLM 1/8W 22K 5%	1	R405	J707385P100	RES MFLM 1/8W 10R 5%	1
R146	J707385P104	RES MFLM 1/8W 100K 5%	1	R406	J707385P820	RES MFLM 1/8W 82R 5%	1
R147	J707385P104	RES MFLM 1/8W 100K 5%	1	R407	J707385P470	RES MFLM 1/8W 47R 5%	1
R148	J707385P123	RES MFLM 1/8W 12K 5%	1	R408	J707385P470	RES MFLM 1/8W 47R 5%	1
R149	J707385P472	RES MFLM 1/8W 4K7 5%	1	R409	J707385P332	RES MFLM 1/8W 3K3 5%	1
R150	J707385P102	RES MFLM 1/8W 1K0 5%	1	R410	J707385P471	RES MFLM 1/8W 470R 5%	1
R151	J707385P683	RES MFLM 1/8W 68K 5%	1	R411	J707385P123	RES MFLM 1/8W 12K 5%	1
R152	J707385P104	RES MFLM 1/8W 100K 5%	1	R412	J707385P472	RES MFLM 1/8W 4K7 5%	1
R153	J707385P472	RES MFLM 1/8W 4K7 5%	1	R413	J707385P102	RES MFLM 1/8W 1K0 5%	1
R154	J707385P274	RES MFLM 1/8W 270K 5%	1	R414	J707385P332	RES MFLM 1/8W 3K3 5%	1
R155	J707385P682	RES MFLM 1/8W 6K8 5%	1	R415	J707385P222	RES MFLM 1/8W 2K2 5%	1
R156	J707385P102	RES MFLM 1/8W 1K0 5%	1	R416	J707385P562	RES MFLM 1/8W 5K6 5%	1
R157	J707385P100	RES MFLM 1/8W 10R 5%	1	R417	J707385P103	RES MFLM 1/8W 10K 5%	1
R158	J707385P102	RES MFLM 1/8W 1K0 5%	1	R418	J707385P153	RES MFLM 1/8W 15K 5%	1
R159	J707385P472	RES MFLM 1/8W 4K7 5%	1	R419	J707385P182	RES MFLM 1/8W 1K8 5%	1
R160	J707385P104	RES MFLM 1/8W 100K 5%	1	R420	J707385P182	RES MFLM 1/8W 1K8 5%	1
R161	J709725P1	RES THERM PTC 1K0	1	R421	J707385P182	RES MFLM 1/8W 1K8 5%	1
R162	J707385P220	RES MFLM 1/8W 22R 5%	1	R422	J707385P473	RES MFLM 1/8W 47K 5%	1
R201	J707385P561	RES MFLM 1/8W 560R 5%	1	R423	J707385P153	RES MFLM 1/8W 15K 5%	1
R202	J707385P271	RES MFLM 1/8W 270R 5%	1	R424	J708538P5	RES VAR CERM 10K 20%	1
R203	J707385P153	RES MFLM 1/8W 15K 5%	1	R425	J707385P153	RES MFLM 1/8W 15K 5%	1
R204	J707385P153	RES MFLM 1/8W 15K 5%	1			G1/G2/G4/G5	
R205	J707385P472	RES MFLM 1/8W 4K7 5%	1	R425	J707385P272	RES MFLM 1/8W 2K7 5%	1
R206	J707385P272	RES MFLM 1/8W 2K7 5%	1			G3/G6	
R207	J707385P563	RES MFLM 1/8W 56K 5%	1				

PARTS LIST FOR RADIO FREQUENCY BOARD RF633X : M905892GX BD REV. 2/S

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R426	J707385P563	RES MFLM 1/8W 56K 5% G1/G2/G4/G5	1	R609	J707385P332	RES MFLM 1/8W 3K3 5%	1
R426	J707385P473	RES MFLM 1/8W 47K 5% G3/G6	1	R610	J707385P331	RES MFLM 1/8W 330R 5%	1
R427	J707385P473	RES MFLM 1/8W 47K 5% G3/G6	1	R611	J707385P151	RES MFLM 1/8W 150R 5%	1
R427	J707385P393	RES MFLM 1/8W 39K 5% G1/G2/G4/G5	1	R612	J707385P102	RES MFLM 1/8W 1K0 5%	1
R428	J707385P273	RES MFLM 1/8W 27K 5% G1/G2/G4/G5	1	R613	J707385P101	RES MFLM 1/8W 100R 5%	1
R428	J707385P563	RES MFLM 1/8W 56K 5% G3/G6	1	R614	J707385P272	RES MFLM 1/8W 2K7 5%	1
R429	J707385P104	RES MFLM 1/8W 100K 5%	1	R615	J707385P682	RES MFLM 1/8W 6K8 5%	1
R430	J709328P447	RES MFLM 1/8W 301K 1% G1/G2/G4/G5	1	R616	J707385P181	RES MFLM 1/8W 180R 5%	1
R430	J707385P334	RES MFLM 1/8W 330K 5% G3/G6	1	R617	J707385P563	RES MFLM 1/8W 56K 5%	1
R431	J707385P473	RES MFLM 1/8W 47K 5%	1	R618	J707385P683	RES MFLM 1/8W 68K 5%	1
R432	J707385P473	RES MFLM 1/8W 47K 5%	1	R619	J707385P104	RES MFLM 1/8W 100K 5%	1
R433	J707385P271	RES MFLM 1/8W 270R 5%	1	R620	J707385P102	RES MFLM 1/8W 1K0 5%	1
R434	J707385P102	RES MFLM 1/8W 1K0 5%	1	R621	J707385P331	RES MFLM 1/8W 330R 5%	1
R435	J706147P3	RES THERM PTC 250R 25%	1	R622	J707385P681	RES MFLM 1/8W 680R 5%	1
R436	J707385P392	RES MFLM 1/8W 3K9 5%	1	R623	J707385P224	RES MFLM 1/8W 220K 5%	1
R437	J707406P7	RES THERM NTC 220R 10%	1	R624	J707385P223	RES MFLM 1/8W 22K 5%	1
R438	J707385P222	RES MFLM 1/8W 2K2 5%	1	R625	J707385P101	RES MFLM 1/8W 100R 5%	1
R439	J707385P392	RES MFLM 1/8W 3K9 5%	1	R626	J707385P100	RES MFLM 1/8W 10R 5%	1
R440	J707385P392	RES MFLM 1/8W 3K9 5%	1	R627	J707385P103	RES MFLM 1/8W 10K 5%	1
R441	J707385P101	RES MFLM 1/8W 100R 5%	1	R628	J707385P224	RES MFLM 1/8W 220K 5%	1
R442	J708538P6	RES VAR CERM 20K 20%	1	R629	J707385P124	RES MFLM 1/8W 120K 5%	1
R444	J707385P473	RES MFLM 1/8W 47K 5%	1	R630	J707385P100	RES MFLM 1/8W 10R 5%	1
R445	J707385P273	RES MFLM 1/8W 27K 5%	1	R631	J707385P684	RES MFLM 1/8W 680K 5%	1
R446	J707385P224	RES MFLM 1/8W 220K 5%	1	R632	J707385P223	RES MFLM 1/8W 22K 5%	1
R447	J707385P392	RES MFLM 1/8W 3K9 5%	1	R633	J707385P824	RES MFLM 1/8W 820K 5%	1
R448	J707385P101	RES MFLM 1/8W 100R 5%	1	R634	J707385P123	RES MFLM 1/8W 12K 5%	1
R449	J707385P470	RES MFLM 1/8W 47R 5%	1	R635	J707385P102	RES MFLM 1/8W 1K0 5%	1
R450	J707385P103	RES MFLM 1/8W 10K 5%	1	R636	J707385P332	RES MFLM 1/8W 3K3 5%	1
R452	J707385P332	RES MFLM 1/8W 3K3 5%	1	R637	J707385P181	RES MFLM 1/8W 180R 5%	1
R501	J707385P821	RES MFLM 1/8W 820R 5%	1	R638	J707385P474	RES MFLM 1/8W 470K 5%	1
R502	J707385P821	RES MFLM 1/8W 820R 5%	1	R639	J707385P333	RES MFLM 1/8W 33K 5%	1
R504	J707385P104	RES MFLM 1/8W 100K 5%	1	R640	J707385P105	RES MFLM 1/8W 1M0 10%	1
R505	J707385P104	RES MFLM 1/8W 100K 5%	1	R641	J707385P184	RES MFLM 1/8W 180K 5%	1
R508	J707385P103	RES MFLM 1/8W 10K 5%	1	R642	J707385P184	RES MFLM 1/8W 180K 5%	1
R509	J707385P151	RES MFLM 1/8W 150R 5%	1	R643	J707385P105	RES MFLM 1/8W 1M0 10%	1
R510	J707385P103	RES MFLM 1/8W 10K 5%	1	R644	J707385P473	RES MFLM 1/8W 47K 5%	1
R512	J707385P561	RES MFLM 1/8W 560R 5%	1	R645	J707385P153	RES MFLM 1/8W 15K 5%	1
R513	J707385P272	RES MFLM 1/8W 2K7 5%	1	R646	J707385P393	RES MFLM 1/8W 39K 5%	1
R514	J707385P682	RES MFLM 1/8W 6K8 5%	1	R647	J707385P333	RES MFLM 1/8W 33K 5%	1
R515	J707385P221	RES MFLM 1/8W 220R 5%	1	R649	J707385P473	RES MFLM 1/8W 47K 5%	1
R516	J707385P221	RES MFLM 1/8W 220R 5%	1	R650	J707385P562	RES MFLM 1/8W 5K6 5%	1
R517	J707385P101	RES MFLM 1/8W 100R 5%	1	R651	J707385P473	RES MFLM 1/8W 47K 5%	1
R518	J707385P100	RES MFLM 1/8W 10R 5%	1	R652	J707385P223	RES MFLM 1/8W 22K 5%	1
R529	J707385P392	RES MFLM 1/8W 3K9 5%	1	R653	J707385P823	RES MFLM 1/8W 82K 5%	1
R601	J706035P52	RES DEPC 0.1W 180K 5%	1	R654	J707385P153	RES MFLM 1/8W 15K 5%	1
R602	J707385P122	RES MFLM 1/8W 1K2 5%	1	R655	J707385P183	RES MFLM 1/8W 18K 5%	1
R603	J707385P122	RES MFLM 1/8W 1K2 5%	1	R656	J707385P393	RES MFLM 1/8W 39K 5%	1
R605	J707385P104	RES MFLM 1/8W 100K 5%	1	R657	J707385P823	RES MFLM 1/8W 82K 5%	1
R606	J707385P104	RES MFLM 1/8W 100K 5%	1	R658	J707385P154	RES MFLM 1/8W 150K 5%	1
R607	J707385P561	RES MFLM 1/8W 560R 5%	1	R659	J707385P223	RES MFLM 1/8W 22K 5%	1
R608	J707385P682	RES MFLM 1/8W 6K8 5%	1	R660	J707385P333	RES MFLM 1/8W 33K 5%	1
				R661	J707385P473	RES MFLM 1/8W 47K 5%	1
				R662	J707385P473	RES MFLM 1/8W 47K 5%	1
				R663	J708538P6	RES VAR CERM 20K 20%	1
				R664	J707385P473	RES MFLM 1/8W 47K 5%	1
				R665	J707385P824	RES MFLM 1/8W 820K 5%	1
				R666	J707385P124	RES MFLM 1/8W 120K 5%	1
				R667	J707385P124	RES MFLM 1/8W 120K 5%	1
				R668	J707385P122	RES MFLM 1/8W 1K2 5%	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF633X : M905892GX BD REV. 2/S

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R669	J707385P221	RES MFLM 1/8W 220R 5%	1	W003	J707256P1	COIL FIX	1
R670	J707385P103	RES MFLM 1/8W 10K 5%	1	W004	J707256P1	COIL FIX	1
R671	J707385P562	RES MFLM 1/8W 5K6 5%	1	W005	J708717P1	STRAP	1
R672	J707385P822	RES MFLM 1/8W 8K2 5%	1	W006	J708716P1	STRAP	1
R673	J707385P822	RES MFLM 1/8W 8K2 5%	1	Y401	J707309P1	CRYSTAL UNIT 20.94 OMHZ	1
R674	J707385P101	RES MFLM 1/8W 100R 5%	1	Y701	J707567P19	CRYSTAL UNIT 7.40 OMHZ	1
R675	J708538P5	RES VAR CERM 10K 20%	1	Z401	J707310P1	FLTR CRY 21.4 +/-7.5 KHZ	1
R676	J707385P562	RES MFLM 1/8W 5K6 5%	1			G1/G4	
R677	J708538P5	RES VAR CERM 10K 20%	1	Z401	J707310P2	FLTR CRY 21.4 +/-6.0 KHZ	1
R678	J707385P470	RES MFLM 1/8W 47R 5%	1			G2/G5	
R679	J707385P821	RES MFLM 1/8W 820R 5%	1	Z401	J707310P3	FLTR CRY 21.4 +/-3.7 KHZ	1
R680	J708538P7	RES VAR CERM 50K 20%	1			G3/G6	
R681	J707385P223	RES MFLM 1/8W 22K 5%	1	Z402	J707446P1	FLTR CER 455K +/-10K Z	1
R682	J707385P152	RES MFLM 1/8W 1K5 5%	1			G1/G4	
R683	J707385P223	RES MFLM 1/8W 22K 5%	1	Z402	J707446P3	FLTR CER 455K +/-7.5 HZ	1
R684	J707385P183	RES MFLM 1/8W 18K 5%	1			G2/G5	
R685	J707385P183	RES MFLM 1/8W 18K 5%	1	Z402	J707446P1	FLTR CER 455K +/-4.5 HZ	1
R686	J707385P103	RES MFLM 1/8W 10K 5%	1			G3/G6	
R687	J707385P103	RES MFLM 1/8W 10K 5%	1	Z403	J707446P1	FLTR CER 455K +/-10K Z	1
R689	J707385P105	RES MFLM 1/8W 1M0 10%	1			G1/G4	
R690	J707385P124	RES MFLM 1/8W 120K 5%	1	Z403	J707446P3	FLTR CER 455K +/-7.5 HZ	1
R691	J707385P273	RES MFLM 1/8W 27K 5%	1			G2/G5	
R692	J707385P223	RES MFLM 1/8W 22K 5%	1	Z403	J707446P1	FLTR CER 455K +/-4.5 HZ	1
R693	J707385P105	RES MFLM 1/8W 1M0 10%	1			G3/G6	
R694	J707385P223	RES MFLM 1/8W 22K 5%	1		M905893P1R2	BD PW	1
R695	J707385P105	RES MFLM 1/8W 1M0 10%	1			NON REFERENCED ITEMS:	
R696	J707385P223	RES MFLM 1/8W 22K 5%	1		J708561P3	COIL FIXED	3
R697	J707385P105	RES MFLM 1/8W 1M0 10%	1		K805776P1	CASTING HEAT SINK	1
R698	J707385P103	RES MFLM 1/8W 10K 5%	1		K805569G2	SHIELD METALLIZED	1
R699	J707385P392	RES MFLM 1/8W 3K9 5%	1		J706281P7	CORE SCREW FERR U 25	8
R700	J707385P273	RES MFLM 1/8W 27K 5%	1		J706804P2	WASH INS CRYST FOR HC-18/U	4
R702	A701250P420	RES MFLM 1/4W 158K 1%	1				
R703	A701250P178	RES MFLM 1/4W 634R 1%	1				
R704	A701250P342	RES MFLM 1/4W 26K7 1%	1				
R707	J707385P104	RES MFLM 1/8W 100K 5%	1				
R708	J707385P105	RES MFLM 1/8W 1M0 10%	1				
R709	J707385P181	RES MFLM 1/8W 180R 5%	1				
R710	J707385P101	RES MFLM 1/8W 100R 5%	1				
R711	J707385P223	RES MFLM 1/8W 22K 5%	1				
R712	J707385P154	RES MFLM 1/8W 150K 5%	1				
R713	J707385P821	RES MFLM 1/8W 820R 5%	1				
R714	J707385P104	RES MFLM 1/8W 100K 5%	1				
R715	J707385P563	RES MFLM 1/8W 56K 5%	1				
U100	J708165P2	IC LIN OP-AMP 324	1				
U201	J708333P1	IC LIN VR, FIX 4785	1				
U401	J707449P1	IC LIN IF-AMP 3357	1				
U402	M905766G1	INT CKT SQ 4002 G1/ 4	1				
U402	M905766G2	INT CKT SQ 4003 G3/ 6	1				
U402	M905766G3	INT CKT SQ 4004 G2/ 5	1				
U601	J707859P1	IC LIN OP-AMP 204	1				
U602	J707859P1	IC LIN OP-AMP 204	1				
U604	J707859P1	IC LIN OP-AMP 204	1				
U606	J707243P1	IC DIG REG 4094	1				
U607	J707374P1	IC PLL PRESC 8793	1				
U608	B800902P1	IC PLL SYN CUSTOM DES	1				
U609	J707859P1	IC LIN OP-AMP 204	1				
U610	J708503P2	IC LIN CMPAR LM 339	1				
U615	J708621P2	CPLR OPTO PC 827	1				
U616	J708503P2	IC LIN CMPAR LM 339	1				

PARTS LIST FOR RADIO FREQUENCY BOARD RF666X : M905779GX BD REV. 3/M

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENTS REVISED SINCE LAST EDITION ARE MARKED *		C132	J707809P27	CAP CER NPO 150P 5%	1
				C133	2113741M45	CAP CER CL2 10N 10%	1
				C134	A700006P26	CAP MICA 47P 5%	1
	M905779G1	RF6662S25 CH. SPAC. 25kHz/25W OUT		C134	A700006P28	CAP MICA 56P 5%	1
	M905779G2	RF6663S25 CH. SPAC. 20kHz/25W OUT		C135	A700006P26	CAP MICA 47P 5%	1
	M905779G3	RF6664S25 CH. SPAC. 12.5kHz/25W OUT		C135	A700006P28	CAP MICA 56P 5%	1
	M905779G4	RF6662S6 CH. SPAC. 25kHz/6W OUT		C136	A700006P14	CAP MICA 18P 5%	1
	M905779G5	RF6663S6 CH. SPAC. 20kHz/6W OUT		C137	J707353P6	CAP ELECT 4U7 25V	1
	M905779G6	RF6664S6 CH. SPAC. 12.5kHz/6W OUT		C138	2113741C09	CAP CER CL2 47N 5%	1
				C139	J707809P25	CAP CER NPO 100P 5%	1
				C140	J707809P25	CAP CER NPO 100P 5%	1
				C141	J707809P25	CAP CER NPO 100P 5%	1
C100	2113740A29	CAP CER NPO 10P 5%	1	C142	J707809P25	CAP CER NPO 100P 5%	1
C101	2113740A33	CAP CER NPO 15P 5%	1	C143	J707809P25	CAP CER NPO 100P 5%	1
C102	2113741M45	CAP CER CL2 10N 10%	1	C144	J707809P25	CAP CER NPO 100P 5%	1
C103	2113740A17	CAP CER NPO 3P9 .25P	1	C145	J707809P25	CAP CER NPO 100P 5%	1
C104	2113740A17	CAP CER NPO 3P9 .25P	1	C146	A700006P4	CAP PTFE 8P2 10%	1
C105	2113740A39	CAP CER NPO 27P 5%	1	C147	A700006P11	CAP MICA 15P 5%	1
C107	2113740A55	CAP CER NPO 100P 5%	1	C148	A700006P11	CAP MICA 15P 5%	1
C108	2113740A33	CAP CER NPO 15P 5%	1	C149	A700006P3	CAP PTFE 6P8 10%	1
C109	2113740A39	CAP CER NPO 27P 5%	1	C150	J707809P8	CAP CER NPO 3P9 .25P	1
C110	2113740A43	CAP CER NPO 39P 5%	1	C151	2113741A33	CAP CER CL2 3N3 5%	1
C111	2113741M45	CAP CER CL2 10N 10%	1	C153	J707809P1	CAP CER NPO 1P0 .25P	1
C112	2113740A55	CAP CER NPO 100P 5%	1	C154	J707809P1	CAP CER NPO 1P0 .25P	1
C113	2113740A39	CAP CER NPO 27P 5%	1	C155	J707809P25	CAP CER NPO 100P 5%	1
C114	J707809P13	CAP CER NPO 10P 5%	1	C160	2113740A55	CAP CER NPO 100P 5%	1
C115	J707809P18	CAP CER NPO 27P 5%	1	C161	2113740A55	CAP CER NPO 100P 5%	1
C116	J707809P20	CAP CER NPO 39P 5%	1	C162	J707353P3	CAP ELECT 0U47 50V	1
C117	J707809P25	CAP CER NPO 100P 5%	1	C163	2113740A55	CAP CER NPO 100P 5%	1
C118	2113741A33	CAP CER CL2 3N3 5%	1	C164	2113741M45	CAP CER CL2 10N 10%	1
C119	J707809P25	CAP CER NPO 100P 5%	1	C165	2113741M45	CAP CER CL2 10N 10%	1
		G1,G2,G3		C166	2113740A55	CAP CER NPO 100P 5%	1
C120	J707809P21	CAP CER NPO 47P 5%	1	C167	2113741M45	CAP CER CL2 10N 10%	1
C121	A700006P19	CAP MICA 27P 5%	1	C168	2113741M45	CAP CER CL2 10N 10%	1
		G1,G2,G3		C169	2113741C05	CAP CER CL2 33N 5%	1
C122	A700006P19	CAP MICA 27P 5%	1	C170	2113740A55	CAP CER NPO 100P 5%	1
		G1,G2,G3		C171	2113740A55	CAP CER NPO 100P 5%	1
C123	J707809P25	CAP CER NPO 100P 5%	1	C172	2113741M45	CAP CER CL2 10N 10%	1
		G1,G2,G3		C173	2113741M21	CAP CER CL2 1N0 10%	1
C124	2113741M45	CAP CER CL2 10N 10%	1	C174	2113741A33	CAP CER CL2 3N3 5%	1
		G1,G2,G3		C175	J707809P25	CAP CER NPO 100P 5%	1
C126	A700006P11	CAP MICA 15P 5%	1	C201	2113741C17	CAP CER CL2 100N 5%	1
		G1,G2,G3		C202	J707444P8	CAP TA SOL 22U 16V	1
C127	A700006P11	CAP MICA 15P 5%	1	C203	J707444P6	CAP TA SOL 4U7 35V	1
		G1,G2,G3		C204	2113741M13	CAP CER CL2 470P 10%	1
C128	J707809P13	CAP CER NPO 10P 5%	1	C205	J706024P7	CAP ELECT 330U 25V	1
		G4,G5,G6		C301	J707809P25	CAP CER NPO 100P 5%	1
C128	J707809P14	CAP CER NPO 12P 5%	1	C302	J707809P15	CAP CER NPO 15P 5%	1
		G1,G2,G3		C303	J707809P15	CAP CER NPO 15P 5%	1
C129	J707809P13	CAP CER NPO 10P 5%	1	C304	J708287P1	CAP VAR CER 3.3/7.2PF	1
		G4,G5,G6		C305	2113740A21	CAP CER NPO 5P6 .25P	1
C129	J707809P14	CAP CER NPO 12P 5%	1	C306	J707483P6	CAP PHEN 0P82 5%	1
		G1,G2,G3		C307	2113740A55	CAP CER NPO 100P 5%	1
C130	A700006P19	CAP MICA 27P 5%	1	C308	2113740A24	CAP CER NPO 6P8 .25P	1
C131	A700006P19	CAP MICA 27P 5%	1	C309	J708287P1	CAP VAR CER 3.3/7.2PF	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF666X : M905779GX BD REV. 3/M

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
C310	2113741M13	CAP CER CL2 470P 10%	1	C420	2113741M45	CAP CER CL2 10N 10%	1
C311	2113740A41	CAP CER NPO 33P 5%	1	C421	2113741C17	CAP CER CL2 100N 5%	1
C312	2113740A63	CAP CER NPO 220P 5%	1	C422	2113741C17	CAP CER CL2 100N 5%	1
C313	2113741M13	CAP CER CL2 470P 10%	1	C423	2113740A29	CAP CER NPO 10P 5%	1
C314	2113740A11	CAP CER NPO 2P2 .25P	1	C424	2113741A33	CAP CER CL2 3N3 5%	1
C315	2113740A27	CAP CER NPO 8P2 .25P	1	C425	J707444P5	CAP TA SOL 2U2 35V	1
C316	J708287P1	CAP VAR CER 3.3/7.2PF	1			G1,G2,G4,G5	
C317	J707444P2	CAP TA SOL 0U22 35V	1	C425	J707412P13	CAP PYES 470N 10%	1
C318	2113741M13	CAP CER CL2 470P 10%	1			G3,G6	
C319	2113740A24	CAP CER NPO 6P8 .25P	1	C426	2113740B59	CAP CER NPO 270P 5%	1
C320	2113741M13	CAP CER CL2 470P 10%	1			G1,G2,G4,G5	
C321	J708287P1	CAP VAR CER 3.3/7.2PF	1	C426	2113740C25	CAP CER NPO 2N2 5%	1
C322	J707483P4	CAP PHEN 0P56 5%	1			G3,G6	
C323	J707483P4	CAP PHEN 0P56 5%	1	C427	2113740A67	CAP CER NPO 330P 5%	1
C324	2113740A24	CAP CER NPO 6P8 .25P	1			G3,G6	
C325	2113741M13	CAP CER CL2 470P 10%	1	C428	2113740A63	CAP CER NPO 220P 5%	1
C326	J708287P1	CAP VAR CER 3.3/7.2PF	1			G3,G6	
C327	2113740A24	CAP CER NPO 6P8 .25P	1	C428	2113740A57	CAP CER NPO 120P 5%	1
C328	J707483P1	CAP PHEN 0P47 5%	1			G1,G2,G4,G5	
C329	2113740A21	CAP CER NPO 5P6 .25P	1	C429	2113741M45	CAP CER CL2 10N 10%	1
C330	J708287P1	CAP VAR CER 3.3/7.2PF	1	C430	J707444P8	CAP TA SOL 22U 16V	1
C331	2113740A13	CAP CER NPO 2P7 .25P	1	C431	J707444P8	CAP TA SOL 22U 16V	1
C332	J708287P1	CAP VAR CER 3.3/7.2PF	1	C432	2113741C17	CAP CER CL2 100N 5%	1
C333	2113740A27	CAP CER NPO 8P2 .25P	1	C433	2113741C17	CAP CER CL2 100N 5%	1
C334	J707483P2	CAP PHEN 0P33 5%	1	C434	2113741A33	CAP CER CL2 3N3 5%	1
C335	2113741M13	CAP CER CL2 470P 10%	1	C435	2113740A03	CAP CER NPO 1P0 .25P	1
C336	J708287P1	CAP VAR CER 3.3/7.2PF	1	C436	2113741C17	CAP CER CL2 100N 5%	1
C337	2113740A27	CAP CER NPO 8P2 .25P	1	C501	J707412P11	CAP PYES 220N 10%	1
C338	2113740A24	CAP CER NPO 6P8 .25P	1	C502	J707412P11	CAP PYES 220N 10%	1
C339	2113741M45	CAP CER CL2 10N 10%	1	C503	J707412P11	CAP PYES 220N 10%	1
C340	2113741M45	CAP CER CL2 10N 10%	1	C504	A700235P3	CAP CER N150 1P5 .25P	1
C341	2113741M13	CAP CER CL2 470P 10%	1	C505	A700235P3	CAP CER N150 1P5 .25P	1
C342	J708287P1	CAP VAR CER 3.3/7.2PF	1	C506	A700235P6	CAP CER N150 2P7 .25P	1
C343	2113740A29	CAP CER NPO 10P 5%	1	C507	A700235P5	CAP CER N150 2P2 .25P	1
C344	2113741M13	CAP CER CL2 470P 10%	1	C508	A700235P10	CAP CER N150 5P6 .25P	1
C345	2113740A41	CAP CER NPO 33P 5%	1	C509	A700235P12	CAP CER N150 8P2 .25P	1
C347	2113741M13	CAP CER CL2 470P 10%	1	C510	A700235P9	CAP CER N150 4P7 .25P	1
C348	2113741M13	CAP CER CL2 470P 10%	1	C512	J707483P7	CAP PHEN 1P00 5%	1
C349	2113740A09	CAP CER NPO 1P8 .25P	1	C513	2113741M13	CAP CER CL2 470P 10%	1
C350	2113741M13	CAP CER CL2 470P 10%	1	C515	2113740A19	CAP CER NPO 4P7 .25P	1
C401	2113741A33	CAP CER CL2 3N3 5%	1	C516	2113740A15	CAP CER NPO 3P3 .25P	1
C402	2113741A33	CAP CER CL2 3N3 5%	1	C517	J707444P6	CAP TA SOL 4U7 35V	1
C403	2113741A33	CAP CER CL2 3N3 5%	1	C518	2113740A13	CAP CER NPO 2P7 .25P	1
C404	2113740A19	CAP CER NPO 4P7 .25P	1	C519	2113741M13	CAP CER CL2 470P 10%	1
C405	2113741C17	CAP CER CL2 100N 5%	1	C520	2113740A17	CAP CER NPO 3P9 .25P	1
C406	2113740A21	CAP CER NPO 5P6 .25P	1	C521	2113740A19	CAP CER NPO 4P7 .25P	1
C407	2113740A19	CAP CER NPO 4P7 .25P	1	C522	2113741M13	CAP CER CL2 470P 10%	1
C408	2113741M21	CAP CER CL2 1N0 10%	1	C523	2113740A21	CAP CER NPO 5P6 .25P	1
C409	2113741A33	CAP CER CL2 3N3 5%	1	C525	2113741M13	CAP CER CL2 470P 10%	1
C410	J707444P8	CAP TA SOL 22U 16V	1	C526	2113740A31	CAP CER NPO 12P 5%	1
C411	2113741C17	CAP CER CL2 100N 5%	1	C527	2113741M13	CAP CER CL2 470P 10%	1
C412	2113741C17	CAP CER CL2 100N 5%	1	C528	2113740A59	CAP CER NPO 150P 5%	1
C413	2113740A33	CAP CER NPO 15P 5%	1	C529	J708287P1	CAP VAR CER 3.3/7.2PF	1
C414	2113741A33	CAP CER CL2 3N3 5%	1	C530	2113740A21	CAP CER NPO 5P6 .25P	1
C415	2113741A33	CAP CER CL2 3N3 5%	1	C531	J707483P7	CAP PHEN 1P00 5%	1
C416	J708702P16	CAP CER N750 18P 5%	1	C532	2113740A21	CAP CER NPO 5P6 .25P	1
C417	2113740A49	CAP CER NPO 56P 5%	1	C533	J708287P1	CAP VAR CER 3.3/7.2PF	1
C418	2113741M45	CAP CER CL2 10N 10%	1	C534	2113740A15	CAP CER NPO 3P3 .25P	1
C419	2113741C17	CAP CER CL2 100N 5%	1	C535	2113740A15	CAP CER NPO 3P3 .25P	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF666X : M905779GX BD REV. 3/M

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
C536	2113741M13	CAP CER CL2 470P 10%	1	C659	2113741M21	CAP CER CL2 1N0 10%	1
C537	2113741M13	CAP CER CL2 470P 10%	1	C660	2113741M13	CAP CER CL2 470P 10%	1
C538	2113741M13	CAP CER CL2 470P 10%	1	C661	2113741M13	CAP CER CL2 470P 10%	1
C539	2113741M13	CAP CER CL2 470P 10%	1	C662	2113741M13	CAP CER CL2 470P 10%	1
C540	2113741M13	CAP CER CL2 470P 10%	1	C663	2113741M13	CAP CER CL2 470P 10%	1
C541	2113741M13	CAP CER CL2 470P 10%	1	C664	2113741C17	CAP CER CL2 100N 5%	1
C542	2113741M13	CAP CER CL2 470P 10%	1	C665	2113741M13	CAP CER CL2 470P 10%	1
C543	2113741M13	CAP CER CL2 470P 10%	1	C666	2113741M13	CAP CER CL2 470P 10%	1
C544	2113741M13	CAP CER CL2 470P 10%	1	C667	2113741M13	CAP CER CL2 470P 10%	1
C545	2113741M13	CAP CER CL2 470P 10%	1	C668	2113741A41	CAP CER CL2 6N8 5%	1
C601	J707412P11	CAP PYES 220N 10%	1	C669	2113740A55	CAP CER NPO 100P 5%	1
C602	J707412P11	CAP PYES 220N 10%	1	C670	2113740A31	CAP CER NPO 12P 5%	1
C603	J707412P11	CAP PYES 220N 10%	1	C671	2113741C17	CAP CER CL2 100N 5%	1
C604	A700235P5	CAP CER N150 2P2 .25P	1	C680	J708538P5	RES VAR CERM 10K 20% G5	1
C605	A700235P3	CAP CER N150 1P5 .25P	1	D100	J706892P2	DIO SI PIN UM 9678	1
C606	A700235P8	CAP CER N150 3P9 .25P	1	D101	A700047P3	DIO SI SIG 1N6263	1
C607	A700235P9	CAP CER N150 4P7 .25P	1	D102	J707390P1	DIO SI SIG BAV 74	1
C608	A700235P12	CAP CER N150 8P2 .25P	1	D301	J706892P2	DIO SI PIN UM 9678	1
C609	A700235P33	CAP CER N150 13P 5%	1	D302	J706007P1	DIO SI CAP 88 5058	1
C610	A700235P12	CAP CER N150 8P2 .25P	1	D303	J706007P1	DIO SI CAP 88 5058	1
C611	2113740A15	CAP CER NPO 3P3 .25P	1	D304	A700047P3	DIO SI SIG 1N6263	1
C612	2113740A19	CAP CER NPO 4P7 .25P	1	D305	J706007P1	DIO SI CAP 88 5058	1
C613	J707444P6	CAP TA SOL 4U7 35V	1	D306	J706007P1	DIO SI CAP 88 5058	1
C614	2113740A13	CAP CER NPO 2P7 .25P	1	D307	J706007P1	DIO SI CAP 88 5058	1
C615	2113740A71	CAP CER NPO 470P 5%	1	D308	J706007P1	DIO SI CAP 88 5058	1
C616	2113741M13	CAP CER CL2 470P 10%	1	D309	J706007P1	DIO SI CAP 88 5058	1
C617	2113740A15	CAP CER NPO 3P3 .25P	1	D310	J706007P1	DIO SI CAP 88 5058	1
C618	2113740A19	CAP CER NPO 4P7 .25P	1	D311	J706007P1	DIO SI CAP 88 5058	1
C619	2113741M13	CAP CER CL2 470P 10%	1	D401	A700025P8	DIO SI ZENR 6V8 5% 0.4W	1
C620	2113740A03	CAP CER NPO 1P0 .25P	1	D501	J706007P1	DIO SI CAP 88 5058	1
C621	2113741M13	CAP CER CL2 470P 10%	1	D502	J706007P1	DIO SI CAP 88 5058	1
C622	2113741M13	CAP CER CL2 470P 10%	1	D503	J706007P1	DIO SI CAP 88 5058	1
C623	2113741M13	CAP CER CL2 470P 10%	1	D504	J706007P1	DIO SI CAP 88 5058	1
C624	2113740A59	CAP CER NPO 150P 5%	1	D505	J707769P3	DIO SI CAP 88Y 31	1
C625	2113740A37	CAP CER NPO 22P 5%	1	D506	J707390P3	DIO SI SIG BAV 74	1
C626	2113741M21	CAP CER CL2 1N0 10%	1	D507	J707769P1	DIO SI CAP 88Y 31	1
C627	2113741M45	CAP CER CL2 10N 10%	1	D508	J707769P3	DIO SI CAP 88Y 31	1
C628	2113740C21	CAP CER NPO 1N5 5%	1	D601	J706007P1	DIO SI CAP 88 5058	1
C629	2113740A59	CAP CER NPO 150P 5%	1	D602	J706007P1	DIO SI CAP 88 5058	1
C630	2113741C17	CAP CER CL2 100N 5%	1	D603	J706007P1	DIO SI CAP 88 5058	1
C632	2113741C17	CAP CER CL2 100N 5%	1	D604	J706007P1	DIO SI CAP 88 5058	1
C633	J707444P17	CAP TA SOL 47U 10V	1	D605	J707390P1	DIO SI SIG BAV 74	1
C634	2113741C17	CAP CER CL2 100N 5%	1	D606	J708681P1	DIO SI SIG BAW 56	1
C635	2113741M13	CAP CER CL2 470P 10%	1	D607	J707390P1	DIO SI SIG BAV 74	1
C636	J707444P17	CAP TA SOL 47U 10V	1	D608	J707390P1	DIO SI SIG BAV 74	1
C637	2113741C17	CAP CER CL2 100N 5%	1	D610	J708681P1	DIO SI SIG BAW 56	1
C639	2113741A33	CAP CER CL2 3N3 5%	1	D611	J707389P1	DIO SI SIG BAV 99	1
C640	J707412P9	CAP PYES 100N 10%	1	L100	K805653G2	COIL ASM 2 1/2T	1
C641	J707412P13	CAP PYES 470N 10%	1	L101	A700024P1	COIL RF FIX 0.1UH 10%	1
C642	J707412P13	CAP PYES 470N 10%	1	L102	K805653G2	COIL ASM 2 1/2T	1
C643	2113741C09	CAP CER CL2 47N 5%	1	L103	J707256P2	COIL FIX	1
C644	2113740A13	CAP CER NPO 2P7 .25P	1	L104	K805653G2	COIL ASM 2 1/2T	1
C645	2113740A63	CAP CER NPO 220P 5%	1	L105	J707256P2	COIL FIX	1
C647	2113740A29	CAP CER NPO 10P 5%	1	L106	K805653G1	COIL ASM 1 1/2T	1
C648	2113740A63	CAP CER NPO 220P 5%	1	L107	A701237P1	COIL	1
C653	J707444P6	CAP TA SOL 4U7 35V	1	L108	J707339G1	COIL FIX ASM	1
C656	2113740A71	CAP CER NPO 470P 5%	1	L109	A700024P1	COIL RF FIX 0.1UH 10%	1
C657	2113741M13	CAP CER CL2 470P 10%	1			G1,G2,G3	
C658	2113741M45	CAP CER CL2 10N 10%	1				

PARTS LIST FOR RADIO FREQUENCY BOARD RF666X : M905779GX BD REV. 3/M

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
L110	J707339G1	COIL FIX ASM G1,G2,G3	1	L609	K805653G6	COIL ASM 6 1/2T	1
L111	A701237P1	COIL G1,G2,G3	1	L610	A700024P29	COIL RF FIX 22UH 10%	1
L112	J709287P1	CORE TOR FERR G1,G2,G3	1	P102	J707064P112	CONN PWB FEM 12-CKT	1
L113	A700024P1	COIL RF FIX 0.1UH 10%	1	P105	A701883P4	CONN PWB FEM RECP	1
L114	J707339G1	COIL FIX ASM	1	Q100	J707388P1	TSTR NPN SI BFR 53	1
L115	A701237P1	COIL G1,G2,G3	1	Q101	J707388P1	TSTR NPN SI BFR 53	1
L116	J708561P4	COIL FIXED	1	Q102	A701940P1	TSTR NPN SI RF-PWR 0.4W	1
L117	A700024P3	COIL RF FIX 0.15UH 10%	1	Q103	A700066P2	TSTR NPN SI RF-PWR 2.0W	1
L118	J709603P1	COIL	1	Q104	J708167P2	TSTR NPN SI RF-PWR 23W G1,G2,G3	1
L119	J709603P1	COIL	1	Q105	J708556P1	TSTR NPN SI RF-PWR 28W G1,G2,G3	1
L120	J709603P1	COIL	1	Q105	J708167P2	TSTR NPN SI RF-PWR 23W G4,G5,G6	1
L121	A700024P25	COIL RF FIX 10UH 10%	1	Q106	J707432P1	TSTR PNP SI BCX 18	1
L122	A700024P25	COIL RF FIX 10UH 10%	1	Q107	J707386P1	TSTR NPN SI BCW 32	1
L123	J709287P1	CORE TOR FERR	1	Q108	J708406P1	TSTR NPN SI BD 233	1
L301	J707256P2	COIL FIX	1	Q201	J707435P1	TSTR PNP SI BC 369	1
L302	J707256P2	COIL FIX	1	Q202	J707386P1	TSTR NPN SI BCW 32	1
L303	K805627G1	COIL RF FIXED 1 1/2T	1	Q203	J707432P1	TSTR PNP SI BCX 18	1
L304	K805627G1	COIL RF FIXED 1 1/2T	1	Q204	J707386P1	TSTR NPN SI BCW 32	1
L305	J707486P11	COIL RF FIX 2.2UH 10%	1	Q301	J706011P2	TSTR NPN SI BFR 91A	1
L306	K805627G1	COIL RF FIXED 1 1/2T	1	Q302	J708315P1	TSTR JFET SI 2N5245	1
L307	K805627G1	COIL RF FIXED 1 1/2T	1	Q401	J707817P1	TSTR JFET SI J 309	1
L308	K805627G1	COIL RF FIXED 1 1/2T	1	Q402	J707817P1	TSTR JFET SI J 309	1
L309	K805627G1	COIL RF FIXED 1 1/2T	1	Q403	J707419P1	TSTR JFET SI BF511	1
L311	K805627G1	COIL RF FIXED 1 1/2T	1	Q404	J708418P1	TSTR NPN SI BFS 20	1
L312	J708428P2	COIL RF VAR 45 MHZ	1	Q405	J708418P1	TSTR NPN SI BFS 20	1
L401	J707486P10	COIL RF FIX 1.5UH 10%	1	Q406	J708418P1	TSTR NPN SI BFS 20	1
L403	K805570G2	COIL ASM	1	Q407	J707386P1	TSTR NPN SI BCW 32	1
L404	K805570G1	COIL ASM	1	Q408	J707387P1	TSTR PNP SI BCW 30	1
L405	J708428P1	COIL RF VAR 45 MHZ	1	Q501	J707817P1	TSTR JFET SI J 309	1
L406	K805570G3	COIL ASM	1	Q502	J707388P1	TSTR NPN SI BFR 53	1
L407	A700024P25	COIL RF FIX 10UH 10%	1	Q503	J707388P1	TSTR NPN SI BFR 53	1
L408	J708428P2	COIL RF VAR 45 MHZ	1	Q504	J708318P1	TSTR PNP SI BFT 92	1
L409	J707431P1	COIL RF VAR 455KHZ 25%	1	Q601	J707817P1	TSTR JFET SI J 309	1
L410	J707431P1	COIL RF VAR 455KHZ 25%	1	Q602	J707388P1	TSTR NPN SI BFR 53	1
L501	A700024P13	COIL RF FIX 1.0UH 10%	1	Q603	J707388P1	TSTR NPN SI BFR 53	1
L502	A700024P13	COIL RF FIX 1.0UH 10%	1	Q604	J708318P1	TSTR PNP SI BFT 92	1
L503	A700024P13	COIL RF FIX 1.0UH 10%	1	Q605	J707386P1	TSTR NPN SI BCW 32	1
L504	A700024P13	COIL RF FIX 1.0UH 10%	1	Q606	J707386P1	TSTR NPN SI BCW 32	1
L505	L855671P1	COIL RADIO FREQUENCY	1	Q607	J707386P1	TSTR NPN SI BCW 32	1
L506	A700024P13	COIL RF FIX 1.0UH 10%	1	Q608	J707433P1	TSTR MFET SI BF 989	1
L507	A700024P13	COIL RF FIX 1.0UH 10%	1	Q609	J707419P1	TSTR JFET SI BF511	1
L508	A700024P1	COIL RF FIX 0.1UH 10%	1	R100	J707385P152	RES MFLM 1/8W 1K5 5%	1
L509	K805527G1	COIL ASM	1	R101	J707385P562	RES MFLM 1/8W 5K6 5%	1
L510	J707256P3	COIL FIX	1	R102	J707385P470	RES MFLM 1/8W 47R 5%	1
L511	J707256P3	COIL FIX	1	R103	J707385P152	RES MFLM 1/8W 1K5 5%	1
L512	K805653G1	COIL ASM 1 1/2T	1	R104	J707385P562	RES MFLM 1/8W 5K6 5%	1
L513	K805653G3	COIL ASM 3 1/2T	1	R105	J707385P270	RES MFLM 1/8W 27R 5%	1
L601	A700024P13	COIL RF FIX 1.0UH 10%	1	R106	J707385P270	RES MFLM 1/8W 27R 5%	1
L602	A700024P13	COIL RF FIX 1.0UH 10%	1	R107	J707385P102	RES MFLM 1/8W 1K0 5%	1
L603	A700024P13	COIL RF FIX 1.0UH 10%	1	R108	J707385P100	RES MFLM 1/8W 10R 5%	1
L604	A700024P13	COIL RF FIX 1.0UH 10%	1	R109	J707385P100	RES MFLM 1/8W 10R 5%	1
L605	L855671P1	COIL RADIO FREQUENCY	1	R110	J707385P947	RES MFLM 1/8W 4R7 20%	1
L606	A700024P13	COIL RF FIX 1.0UH 10%	1	R111	J707385P102	RES MFLM 1/8W 1K0 5%	1
L607	A700024P13	COIL RF FIX 1.0UH 10%	1	R112	J707385P270	RES MFLM 1/8W 27R 5%	1
L608	A700024P1	COIL RF FIX 0.1UH 10%	1	R113	J707385P100	RES MFLM 1/8W 10R 5% G1,G2,G3	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF666X : M905779GX BD REV. 3/M

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R114	J707385P100	RES MFLM 1/8W 10R 5% G1,G2,G3	1	R167	2113740A55	CAP CER NPO 100P 5% G2	1
R115	J707385P100	RES MFLM 1/8W 10R 5%	1	R201	J707385P561	RES MFLM 1/8W 560R 5%	1
R116	J707385P100	RES MFLM 1/8W 10R 5%	1	R202	J707385P271	RES MFLM 1/8W 270R 5%	1
R117	J707385P100	RES MFLM 1/8W 10R 5%	1	R203	J707385P153	RES MFLM 1/8W 15K 5%	1
R119	J707385P473	RES MFLM 1/8W 47K 5%	1	R204	J707385P153	RES MFLM 1/8W 15K 5%	1
R120	J707385P473	RES MFLM 1/8W 47K 5%	1	R205	J707385P472	RES MFLM 1/8W 4K7 5%	1
R121	J707385P102	RES MFLM 1/8W 1K0 5% G4,G5,G6	1	R206	J707385P272	RES MFLM 1/8W 2K7 5%	1
R121	J707385P221	RES MFLM 1/8W 220R 5% G1,G2,G3	1	R207	J707385P563	RES MFLM 1/8W 56K 5%	1
R122	J707385P102	RES MFLM 1/8W 1K0 5% G4,G5,G6	1	R208	J707385P563	RES MFLM 1/8W 56K 5%	1
R122	J707385P221	RES MFLM 1/8W 220R 5% G1,G2,G3	1	R209	J707385P271	RES MFLM 1/8W 270R 5%	1
R123	J707385P220	RES MFLM 1/8W 22R 5%	1	R301	J707385P473	RES MFLM 1/8W 47K 5%	1
R124	J707385P220	RES MFLM 1/8W 22R 5%	1	R302	J707385P221	RES MFLM 1/8W 220R 5%	1
R125	J707385P391	RES MFLM 1/8W 390R 5% G1,G2,G3	1	R303	J707385P104	RES MFLM 1/8W 100K 5%	1
R126	J707385P391	RES MFLM 1/8W 390R 5% G1,G2,G3	1	R304	J707385P104	RES MFLM 1/8W 100K 5%	1
R127	J707385P101	RES MFLM 1/8W 100R 5% G1,G2,G3	1	R306	J707385P222	RES MFLM 1/8W 2K2 5%	1
R130	J707385P103	RES MFLM 1/8W 10K 5%	1	R307	J707385P681	RES MFLM 1/8W 680R 5%	1
R131	J707385P472	RES MFLM 1/8W 4K7 5% G1,G2,G3	1	R308	J707385P560	RES MFLM 1/8W 56R 5%	1
R131	J707385P473	RES MFLM 1/8W 47K 5% G4,G5,G6	1	R309	J707385P270	RES MFLM 1/8W 27R 5%	1
R132	J708538P9	RES VAR CERM 200K 20%	1	R310	J707385P104	RES MFLM 1/8W 100K 5%	1
R133	J708538P4	RES VAR CERM 5K0 20%	1	R311	J707385P270	RES MFLM 1/8W 27R 5%	1
R134	J707385P100	RES MFLM 1/8W 10R 5%	1	R312	J707385P104	RES MFLM 1/8W 100K 5%	1
R135	J706147P2	RES THERM PTC 80R 25% G1,G2,G3	1	R313	J707385P104	RES MFLM 1/8W 100K 5%	1
R136	J707385P101	RES MFLM 1/8W 100R 5% G4,G5,G6	1	R314	J707385P104	RES MFLM 1/8W 100K 5%	1
R136	J707385P153	RES MFLM 1/8W 15K 5% G1,G2,G3	1	R315	J707385P104	RES MFLM 1/8W 100K 5%	1
R137	J707385P473	RES MFLM 1/8W 47K 5%	1	R316	J707385P104	RES MFLM 1/8W 100K 5%	1
R138	J707385P333	RES MFLM 1/8W 33K 5%	1	R317	J707385P272	RES MFLM 1/8W 2K7 5%	1
R139	J707385P333	RES MFLM 1/8W 33K 5%	1	R318	J707385P100	RES MFLM 1/8W 10R 5%	1
R140	J707385P104	RES MFLM 1/8W 100K 5%	1	R319	J707385P101	RES MFLM 1/8W 100R 5%	1
R141	J707385P222	RES MFLM 1/8W 2K2 5%	1	R320	J707385P103	RES MFLM 1/8W 10K 5%	1
R142	J707385P222	RES MFLM 1/8W 2K2 5%	1	R321	J707385P270	RES MFLM 1/8W 27R 5%	1
R143	J707385P104	RES MFLM 1/8W 100K 5%	1	R322	J707385P104	RES MFLM 1/8W 100K 5%	1
R144	J707385P682	RES MFLM 1/8W 6K8 5%	1	R323	J707385P102	RES MFLM 1/8W 1K0 5%	1
R145	J707385P154	RES MFLM 1/8W 150K 5%	1	R324	J707385P101	RES MFLM 1/8W 100R 5%	1
R146	J707385P472	RES MFLM 1/8W 4K7 5%	1	R401	J707385P560	RES MFLM 1/8W 56R 5%	1
R147	J707385P123	RES MFLM 1/8W 12K 5%	1	R402	J707385P100	RES MFLM 1/8W 10R 5%	1
R148	J707385P331	RES MFLM 1/8W 330R 5%	1	R403	J707385P332	RES MFLM 1/8W 3K3 5%	1
R149	J707385P683	RES MFLM 1/8W 68K 5%	1	R405	J707385P100	RES MFLM 1/8W 10R 5%	1
R150	J707385P104	RES MFLM 1/8W 100K 5%	1	R406	J707385P820	RES MFLM 1/8W 82R 5%	1
R151	J707385P274	RES MFLM 1/8W 270K 5%	1	R407	J707385P470	RES MFLM 1/8W 47R 5%	1
R152	J707385P562	RES MFLM 1/8W 5K6 5%	1	R408	J707385P470	RES MFLM 1/8W 47R 5%	1
R153	J707385P222	RES MFLM 1/8W 2K2 5%	1	R410	J707385P272	RES MFLM 1/8W 2K7 5%	1
R154	J707385P102	RES MFLM 1/8W 1K0 5%	1	R411	J707385P682	RES MFLM 1/8W 6K8 5%	1
R155	J707385P472	RES MFLM 1/8W 4K7 5%	1	R412	J707385P272	RES MFLM 1/8W 2K7 5%	1
R156	J707385P223	RES MFLM 1/8W 22K 5%	1	R413	J707385P471	RES MFLM 1/8W 470R 5%	1
R157	J709725P1	RES THERM PTC 1K0	1	R414	J707385P220	RES MFLM 1/8W 22R 5%	1
R158	J707385P472	RES MFLM 1/8W 4K7 5%	1	R415	J707385P222	RES MFLM 1/8W 2K2 5%	1
				R416	J707385P562	RES MFLM 1/8W 5K6 5%	1
				R417	J707385P103	RES MFLM 1/8W 10K 5%	1
				R418	J707385P153	RES MFLM 1/8W 15K 5%	1
				R419	J707385P182	RES MFLM 1/8W 1K8 5%	1
				R420	J707385P182	RES MFLM 1/8W 1K8 5%	1
				R421	J707385P182	RES MFLM 1/8W 1K8 5%	1
				R422	J707385P473	RES MFLM 1/8W 47K 5%	1
				R423	J707385P153	RES MFLM 1/8W 15K 5%	1
				R424	J708538P5	RES VAR CERM 10K 20%	1
				R425	J707385P153	RES MFLM 1/8W 15K 5% G1,G2,G4,G5	1
				R425	J707385P272	RES MFLM 1/8W 2K7 5% G3,G6	1

PARTS LIST FOR RADIO FREQUENCY BOARD RF666X : M905779GX BD REV. 3/M

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R426	J707385P563	RES MFLM 1/8W 56K 5%	1	R530	J707385P182	RES MFLM 1/8W 1K8 5%	1
		G1,G2,G4,G5		R531	J707385P682	RES MFLM 1/8W 6K8 5%	1
R426	J707385P473	RES MFLM 1/8W 47K 5%	1	R532	J707385P392	RES MFLM 1/8W 3K9 5%	1
		G3,G6		R601	J707385P122	RES MFLM 1/8W 1K2 5%	1
R427	J707385P393	RES MFLM 1/8W 39K 5%	1	R602	J707385P122	RES MFLM 1/8W 1K2 5%	1
		G1,G2,G4,G5		R603	J707385P122	RES MFLM 1/8W 1K2 5%	1
R427	J707385P473	RES MFLM 1/8W 47K 5%	1	R604	J707385P104	RES MFLM 1/8W 100K 5%	1
		G3,G6		R605	J707385P104	RES MFLM 1/8W 100K 5%	1
R428	J707385P273	RES MFLM 1/8W 27K 5%	1	R606	J707385P104	RES MFLM 1/8W 100K 5%	1
		G1,G2,G4,G5		R607	J707385P561	RES MFLM 1/8W 560R 5%	1
R428	J707385P563	RES MFLM 1/8W 56K 5%	1	R608	J707385P221	RES MFLM 1/8W 220R 5%	1
		G3,G6		R609	J707385P472	RES MFLM 1/8W 4K7 5%	1
R429	J707385P104	RES MFLM 1/8W 100K 5%	1	R610	J707385P183	RES MFLM 1/8W 18K 5%	1
R430	J707385P334	RES MFLM 1/8W 330K 5%	1	R611	J707385P271	RES MFLM 1/8W 270R 5%	1
R431	J707385P473	RES MFLM 1/8W 47K 5%	1	R612	J707385P223	RES MFLM 1/8W 22K 5%	1
R432	J707385P473	RES MFLM 1/8W 47K 5%	1	R613	J707385P101	RES MFLM 1/8W 100R 5%	1
R433	J707385P271	RES MFLM 1/8W 270R 5%	1	R614	J707385P682	RES MFLM 1/8W 6K8 5%	1
R434	J707385P102	RES MFLM 1/8W 1K0 5%	1	R615	J707385P222	RES MFLM 1/8W 2K2 5%	1
R435	J706147P3	RES THERM PTC 250R 25%	1	R616	J707385P101	RES MFLM 1/8W 100R 5%	1
R436	J707385P392	RES MFLM 1/8W 3K9 5%	1	R617	J707385P101	RES MFLM 1/8W 100R 5%	1
R437	J707406P7	RES THERM NTC 220R 10%	1	R618	J707385P102	RES MFLM 1/8W 1K0 5%	1
R438	J707385P222	RES MFLM 1/8W 2K2 5%	1	R619	J707385P102	RES MFLM 1/8W 1K0 5%	1
R439	J707385P392	RES MFLM 1/8W 3K9 5%	1	R620	J707385P272	RES MFLM 1/8W 2K7 5%	1
R440	J707385P392	RES MFLM 1/8W 3K9 5%	1	R621	J707385P330	RES MFLM 1/8W 33R 5%	1
R441	J707385P101	RES MFLM 1/8W 100R 5%	1	R622	J707385P102	RES MFLM 1/8W 1K0 5%	1
R442	J708538P6	RES VAR CERM 20K 20%	1	R623	J707385P123	RES MFLM 1/8W 12K 5%	1
R444	J707385P473	RES MFLM 1/8W 47K 5%	1	R624	J707385P223	RES MFLM 1/8W 22K 5%	1
R445	J707385P273	RES MFLM 1/8W 27K 5%	1	R625	J707385P470	RES MFLM 1/8W 47R 5%	1
R446	J707385P224	RES MFLM 1/8W 220K 5%	1	R626	J707385P100	RES MFLM 1/8W 10R 5%	1
R447	J707385P392	RES MFLM 1/8W 3K9 5%	1	R627	J707385P103	RES MFLM 1/8W 10K 5%	1
R448	J707385P101	RES MFLM 1/8W 100R 5%	1	R628	J707385P224	RES MFLM 1/8W 220K 5%	1
R449	J707385P470	RES MFLM 1/8W 47R 5%	1	R629	J707385P393	RES MFLM 1/8W 39K 5%	1
R450	J707385P103	RES MFLM 1/8W 10K 5%	1			G1,G2,G4,G5	
R451	J707385P332	RES MFLM 1/8W 3K3 5%	1	R629	J707385P823	RES MFLM 1/8W 82K 5%	1
R452	J707385P332	RES MFLM 1/8W 3K3 5%	1			G3,G6	
R501	J707385P122	RES MFLM 1/8W 1K2 5%	1	R630	J707385P100	RES MFLM 1/8W 10R 5%	1
R502	J707385P122	RES MFLM 1/8W 1K2 5%	1			G1,G4,G5,G6	
R503	J707385P122	RES MFLM 1/8W 1K2 5%	1	R631	J707385P332	RES MFLM 1/8W 3K3 5%	1
R504	J707385P104	RES MFLM 1/8W 100K 5%	1			G1,G2,G4,G5	
R505	J707385P104	RES MFLM 1/8W 100K 5%	1	R632	J707385P393	RES MFLM 1/8W 39K 5%	1
R506	J707385P104	RES MFLM 1/8W 100K 5%	1	R633	J707385P223	RES MFLM 1/8W 22K 5%	1
R508	J707385P103	RES MFLM 1/8W 10K 5%	1	R634	J707385P470	RES MFLM 1/8W 47R 5%	1
R509	J707385P100	RES MFLM 1/8W 10R 5%	1	R635	J707385P102	RES MFLM 1/8W 1K0 5%	1
R510	J707385P332	RES MFLM 1/8W 3K3 5%	1	R636	J707385P332	RES MFLM 1/8W 3K3 5%	1
R512	J707385P271	RES MFLM 1/8W 270R 5%	1	R637	J707385P181	RES MFLM 1/8W 180R 5%	1
R513	J707385P183	RES MFLM 1/8W 18K 5%	1	R638	J707385P154	RES MFLM 1/8W 150K 5%	1
R514	J707385P472	RES MFLM 1/8W 4K7 5%	1			G1,G2,G4,G5	
R515	J707385P271	RES MFLM 1/8W 270R 5%	1	R638	J707385P823	RES MFLM 1/8W 82K 5%	1
R517	J707385P101	RES MFLM 1/8W 100R 5%	1			G3,G6	
R520	J707385P682	RES MFLM 1/8W 6K8 5%	1	R639	J707385P682	RES MFLM 1/8W 6K8 5%	1
R521	J707385P152	RES MFLM 1/8W 1K5 5%	1			G1,G2,G4,G5	
R522	J707385P680	RES MFLM 1/8W 68R 5%	1	R639	J707385P822	RES MFLM 1/8W 8K2 5%	1
R523	J707385P222	RES MFLM 1/8W 2K2 5%	1			G3,G6	
R524	J707385P472	RES MFLM 1/8W 4K7 5%	1	R640	J707385P105	RES MFLM 1/8W 1M0 10%	1
R525	J707385P680	RES MFLM 1/8W 68R 5%	1	R641	J707385P184	RES MFLM 1/8W 180K 5%	1
R526	J707385P104	RES MFLM 1/8W 100K 5%	1	R642	J707385P184	RES MFLM 1/8W 180K 5%	1
R527	J707385P104	RES MFLM 1/8W 100K 5%	1	R643	J707385P105	RES MFLM 1/8W 1M0 10%	1
R528	J707385P103	RES MFLM 1/8W 10K 5%	1	R644	J707385P224	RES MFLM 1/8W 220K 5%	1
R529	J707385P150	RES MFLM 1/8W 15R 5%	1	R645	J707385P103	RES MFLM 1/8W 10K 5%	1

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Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R646	J707385P472	RES MFLM 1/8W 4K7 5%	1	R705	J707385P122	RES MFLM 1/8W 1K2 5%	1
R647	J707385P333	RES MFLM 1/8W 33K 5%	1	R706	J707385P561	RES MFLM 1/8W 560R 5%	1
R648	J707385P683	RES MFLM 1/8W 68K 5%	1	U100	J708165P2	IC LIN OP-AMP 324	1
R649	J707385P104	RES MFLM 1/8W 100K 5%	1	U201	J708333P1	IC LIN VR FIX 4785	1
R650	J707385P223	RES MFLM 1/8W 22K 5%	1	U401	J707449P1	IC LIN IF-AMP 3357	1
R651	J707385P104	RES MFLM 1/8W 100K 5%	1	U402	M905766G1	INT CKT SQ 4002 G1,G4	1
R652	J707385P472	RES MFLM 1/8W 4K7 5%	1	U402	M905766G2	INT CKT SQ 4003 G3,G6	1
R653	J707385P333	RES MFLM 1/8W 33K 5%	1	U402	M905766G3	INT CKT SQ 4004 G2,G5	1
R654	J707385P562	RES MFLM 1/8W 5K6 5%	1	U601	J707859P1	IC LIN OP-AMP 204	1
R655	J707385P183	RES MFLM 1/8W 18K 5%	1	U602	J707859P1	IC LIN OP-AMP 204	1
R656	J707385P393	RES MFLM 1/8W 39K 5%	1	U603	J707859P1	IC LIN OP-AMP 204	1
R657	J707385P823	RES MFLM 1/8W 82K 5%	1	U604	J707859P1	IC LIN OP-AMP 204	1
R658	J707385P154	RES MFLM 1/8W 150K 5%	1	U606	J707243P1	IC DIG REG 4094	1
R659	J707385P102	RES MFLM 1/8W 1K0 5%	1	U607	J707374P3	IC PLL PRESC 12017	1
R660	J707385P333	RES MFLM 1/8W 33K 5%	1			G1,G2,G4,G4	
R661	J707385P473	RES MFLM 1/8W 47K 5%	1	U607	J707374P4	IC PLL PRESC 12018	1
R662	J707385P393	RES MFLM 1/8W 39K 5%	1			G3,G6	
R663	J708538P5	RES VAR CERM 10K 20%	1	U608	8800902P1	IC PLL SYN CUSTOM DES	1
R664	J707385P333	RES MFLM 1/8W 33K 5%	1	U609	J707859P1	IC LIN OP-AMP 204	1
R665	J707385P824	RES MFLM 1/8W 820K 5%	1	U610	J708503P2	IC LIN CMPAR LM 339	1
R666	J707385P124	RES MFLM 1/8W 120K 5%	1	U615	J708621P2	CPLR OPTO PC 827	1
R667	J707385P124	RES MFLM 1/8W 120K 5%	1	U616	J708503P2	IC LIN CMPAR LM 339	1
R668	J707385P122	RES MFLM 1/8W 1K2 5%	1	W001	J706451P1	WIRE STRAP G5	1
R669	J707385P221	RES MFLM 1/8W 220R 5%	1	W004	J706451P1	WIRE STRAP	1
R670	J707385P103	RES MFLM 1/8W 10K 5%	1	W1	A700184P1	RES WIRE JMPR OR JUMPER	1
R671	J707385P562	RES MFLM 1/8W 5K6 5%	1	W3	J707256P1	COIL FIX	1
R672	J707385P822	RES MFLM 1/8W 8K2 5%	1	W5	J708717P1	STRAP	1
R673	J707385P822	RES MFLM 1/8W 8K2 5%	1	Y401	J708426P1	CRYSTAL UNIT 44.5450MHZ	1
R674	J707385P101	RES MFLM 1/8W 100R 5%	1	Z401	J708330P1	FLTR CRY 45.0 +/-7.5KHZ G1,G4	1
R675	J708538P5	RES VAR CERM 10K 20%	1	Z401	J708330P2	FLTR CRY 45.0 +/-6KHZ G2,G5	1
R676	J707385P123	RES MFLM 1/8W 12K 5%	1	Z401	J708330P3	FLTR CRY 45.0 +/-3.75KHZ G3,G6	1
R677	J708538P5	RES VAR CERM 10K 20%	1	Z402	J707446P1	FLTR CER 455K +/-10KHZ G1,G4	1
R678	J707385P821	RES MFLM 1/8W 820R 5%	1	Z402	J707446P3	FLTR CER 455K +/- 7.5KHZ G2,G5	1
R679	J707385P683	RES MFLM 1/8W 68K 5%	1	Z402	J707446P4	FLTR CER 455K +/- 4.5KHZ G3,G6	1
R680	J708538P6	RES VAR CERM 20K 20%	1	Z403	J707446P1	FLTR CER 455K +/-10KHZ G1,G4	1
R681	J707385P683	RES MFLM 1/8W 68K 5%	1	Z403	J707446P3	FLTR CER 455K +/- 7.5KHZ G2,G5	1
R682	J707385P331	RES MFLM 1/8W 330R 5%	1	Z403	J707446P4	FLTR CER 455K +/- 4.5KHZ G3,G6	1
R683	J707385P681	RES MFLM 1/8W 680R 5%	1				
R684	J707385P105	RES MFLM 1/8W 1M0 10%	1		M905780P1R3	BD PW SMD DS G1,G2,G3	1
R685	J707385P183	RES MFLM 1/8W 18K 5%	1		M905780P2R3	BD PW SMD DS G4,G5,G6	1
R686	J707385P103	RES MFLM 1/8W 10K 5%	1			NON REFERENCED ITEMS:	
R687	J707385P183	RES MFLM 1/8W 18K 5%	1		J706804P2	WASH INS CRY FOR HC-18/U	1
R688	J707385P103	RES MFLM 1/8W 10K 5%	1		J706804P3	WASH INS CRY FOR HC-45/U	2
R689	J707385P124	RES MFLM 1/8W 120K 5%	1		J708561P3	COIL FIXED	2
R690	J707385P152	RES MFLM 1/8W 1K5 5%	1		J708966G1	HEAT SINK MODF	1
R691	J707385P223	RES MFLM 1/8W 22K 5%	1		K805569G1	SHIELD METALLIZED	1
R692	J707385P105	RES MFLM 1/8W 1M0 10%	1		J709006P1	SPACER SELF CLINCHING G4,G5,G6	2
R693	J707385P223	RES MFLM 1/8W 22K 5%	1				
R694	J707385P223	RES MFLM 1/8W 22K 5%	1				
R695	J707385P105	RES MFLM 1/8W 1M0 10%	1				
R696	J707385P223	RES MFLM 1/8W 22K 5%	1				
R697	J707385P223	RES MFLM 1/8W 22K 5%	1				
R698	J707385P105	RES MFLM 1/8W 1M0 10%	1				
R699	J707385P273	RES MFLM 1/8W 27K 5%	1				
R700	J707385P103	RES MFLM 1/8W 10K 5%	1				
R701	J707385P824	RES MFLM 1/8W 820K 5%	1				
R702	J707385P824	RES MFLM 1/8W 820K 5%	1				
R703	J707385P154	RES MFLM 1/8W 150K 5%	1				
R704	J707385P561	RES MFLM 1/8W 560R 5%	1				

**STORNOPHONE 6000
MAINTENANCE MANUAL
VOLUME IV**

SEPTEMBER 1990

PUBLICATION NO: 68P02922U99-B

**STORNOPHONE 6000
MAINTENANCE MANUAL
VOLUME IV**

**OTHER MAINTENANCE MANUALS:
VOLUME I II III V
AND ADJUSTMENT AND SOFTWARE**

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2

3

COMMON FUNCTION BOARD

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COMMON FUNCTION BOARD CF6001

- Description
- Signalling diagram between CF6001 and CL6003
- Interconnection diagram CQM6000
- Electrical Diagram
- Component layout
- Parts list

TX AUDIO PATH

The microphone input is an 8 mA DC current supply through the signal lead from the CF6001. Nominal input level is 110 mW. The microphone may be muted by removing this supply by switching Q802 and the analogue switch U811-A. Low frequency noise is attenuated in a 3rd order lowpass filter centered around U806d and the signal is pre-emphasised in U86a.

The opamp U806b forms a virtual earth mixing stage for the pre-emphasised microphone signal and another TX line signal. The signals appear at the output of this stage at a nominal level of approximately 1 Volt RMS. The limiting action is performed by D801 with clipping levels set at approximately ± 2.5 volts.

The stage U806c forms another summing point where the tones from the DCAP are added. The splatter filter required to remove the harmonics generated by the limiter is formed by U807d, U807a and associated components. The filter is a fourth order filter with a frequency response that can be modified to accommodate both 12.5 kHz and 25 kHz channel spacings by including R822 and R826 for the latter.

The TX signal from the output of U807a can be fed to the audio amplifier (PA function, RX audio via DCAP) to the transmitter via U810b, U811c or to the EC connector via U811c. The signal to the transmitter can be the output from the splatter filter, an external AUX-TX-MOD signal, or from the EC connector via U810-b. The EC connector J910 may not always be mounted.

SPECIFICATIONS**Operating voltage**

10.8 V DC - 15.6 V DC (13.2 V nom.)

Current consumption (battery)

OFF:	(CF alone all outputs unloaded V _{batt.} = 13.2 V)	< 10 mA
Stand-by	(CF alone all outputs unloaded V _{batt.} = 13.2 V)	< 257 mA
RX:	(10 W output into 4 ohm CF alone all outputs except LS unloaded V _{batt.} = 13.2 V)	< 2.2 A

Outputs

J903-1	Batt. fused to external	< 1.0 A
P902-1	+ Batt. switched to external	< 600 mA
J901-9	+ 5 V Max. current to external	< 100 mA
P902-2	-24 V Max. current to external	< 20 mA

Volume control

8 levels of 7 ± 1 dB = 56 dB. More than 7 dB of excess gain is available

Temperature range

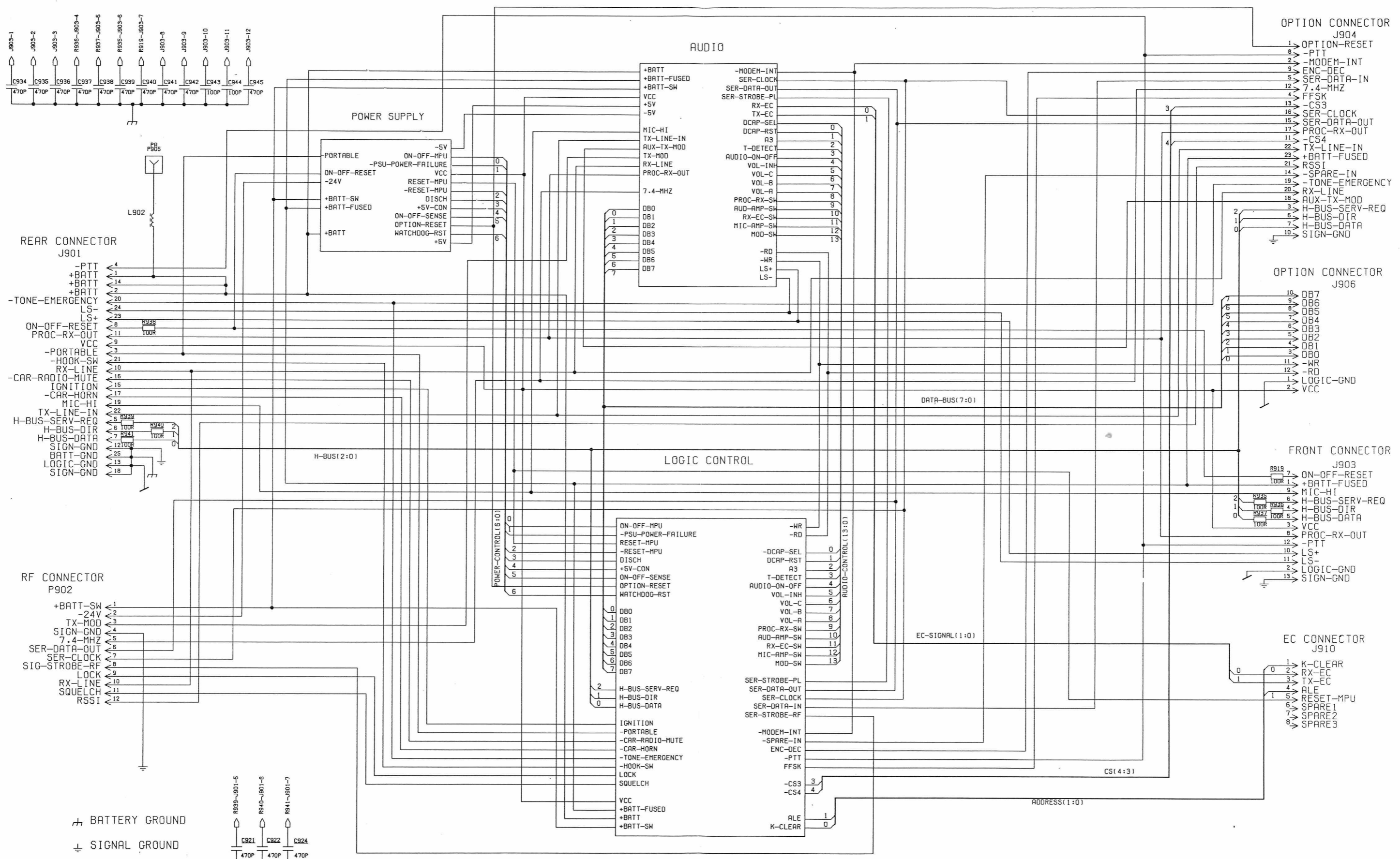
Operating:	-25°C to +60°C
Storage:	-40°C to +70°C

Mechanical dimensions

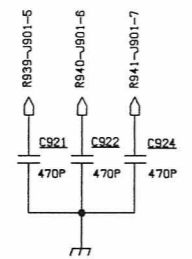
L x W x H: 162 x 127 x 22 mm

Weight

200 g

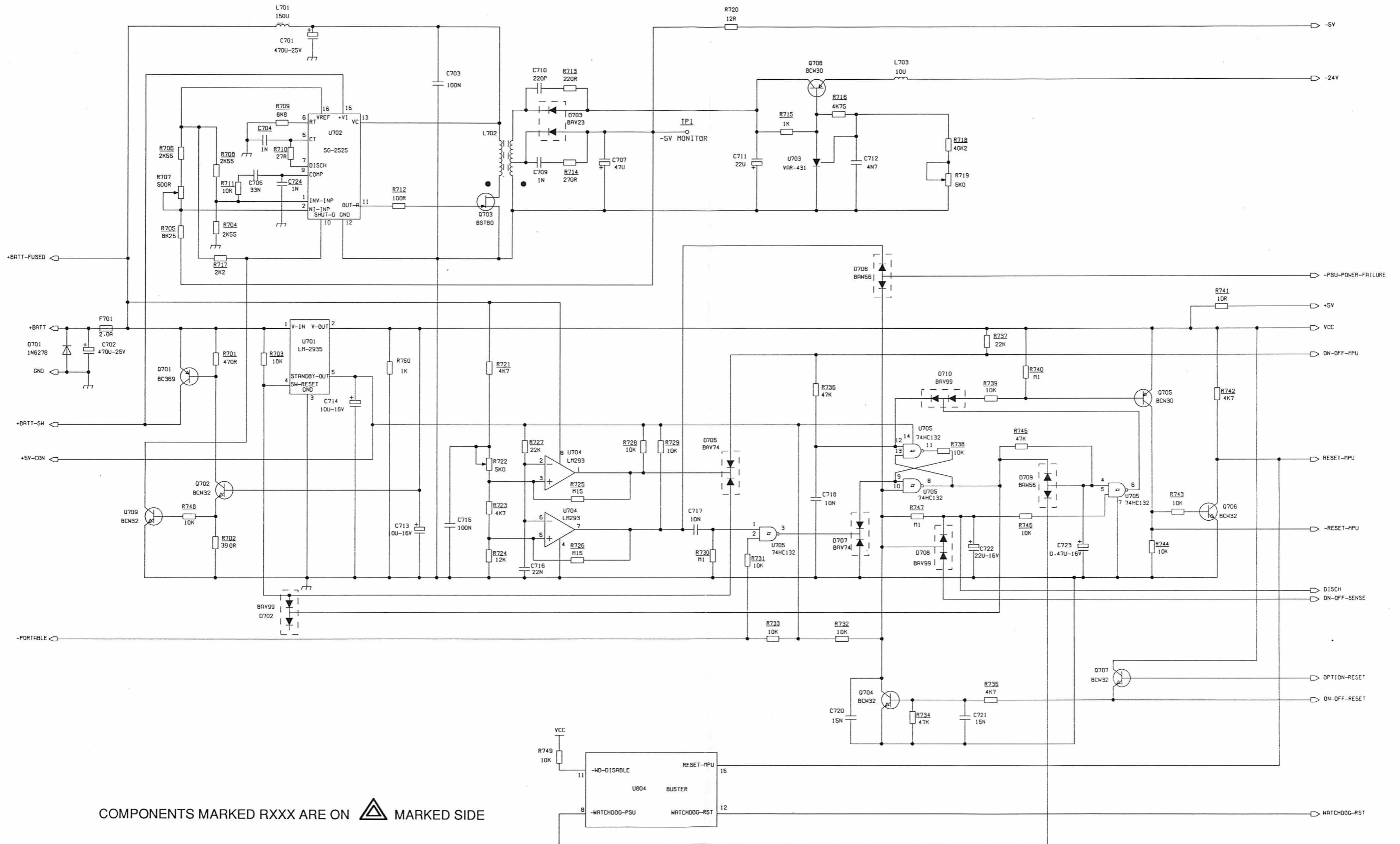



BATTERY GROUND
 SIGNAL GROUND
 LOGIC GROUND



COMPONENTS MARKED RXXX ARE ON MARKED SIDE

**COMMON FUNCTION BOARD CF6001
INTERCONNECTION DIAGRAM**

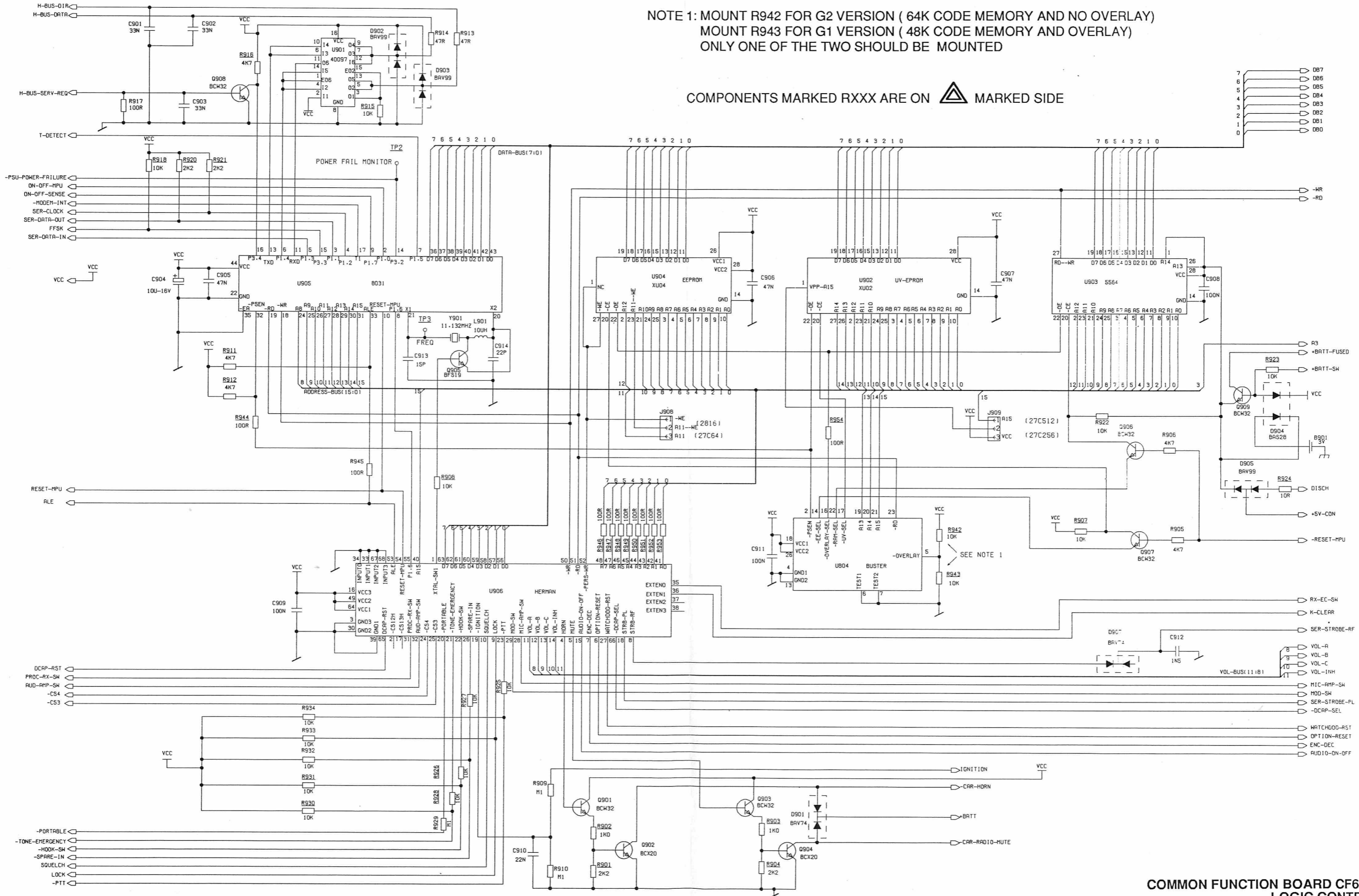


COMPONENTS MARKED RXXX ARE ON  MARKED SIDE

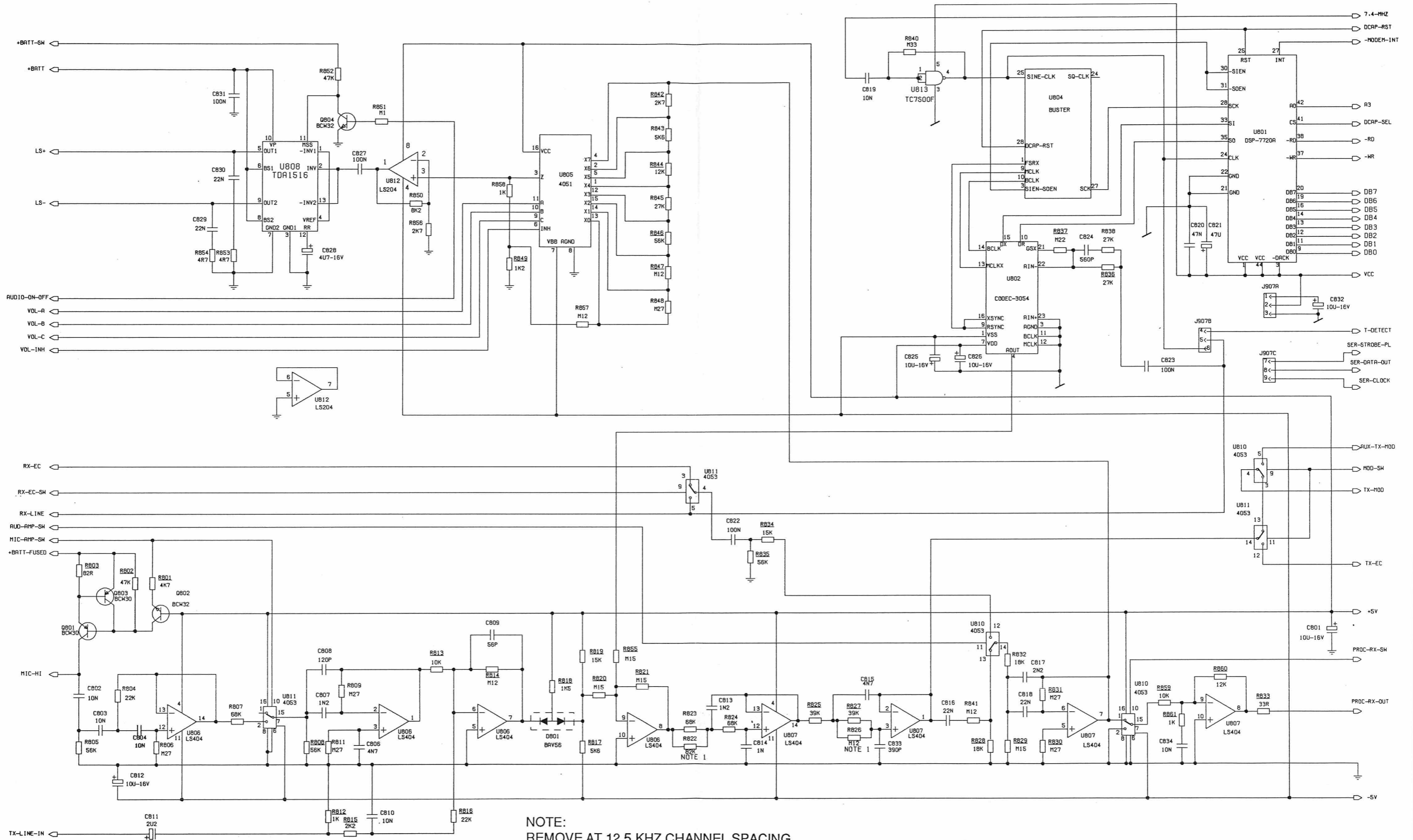
**COMMON FUNCTION BOARD CF6001
POWER SUPPLY**

NOTE 1: MOUNT R942 FOR G2 VERSION (64K CODE MEMORY AND NO OVERLAY)
MOUNT R943 FOR G1 VERSION (48K CODE MEMORY AND OVERLAY)
ONLY ONE OF THE TWO SHOULD BE MOUNTED


COMPONENTS MARKED RXXX ARE ON  MARKED SIDE



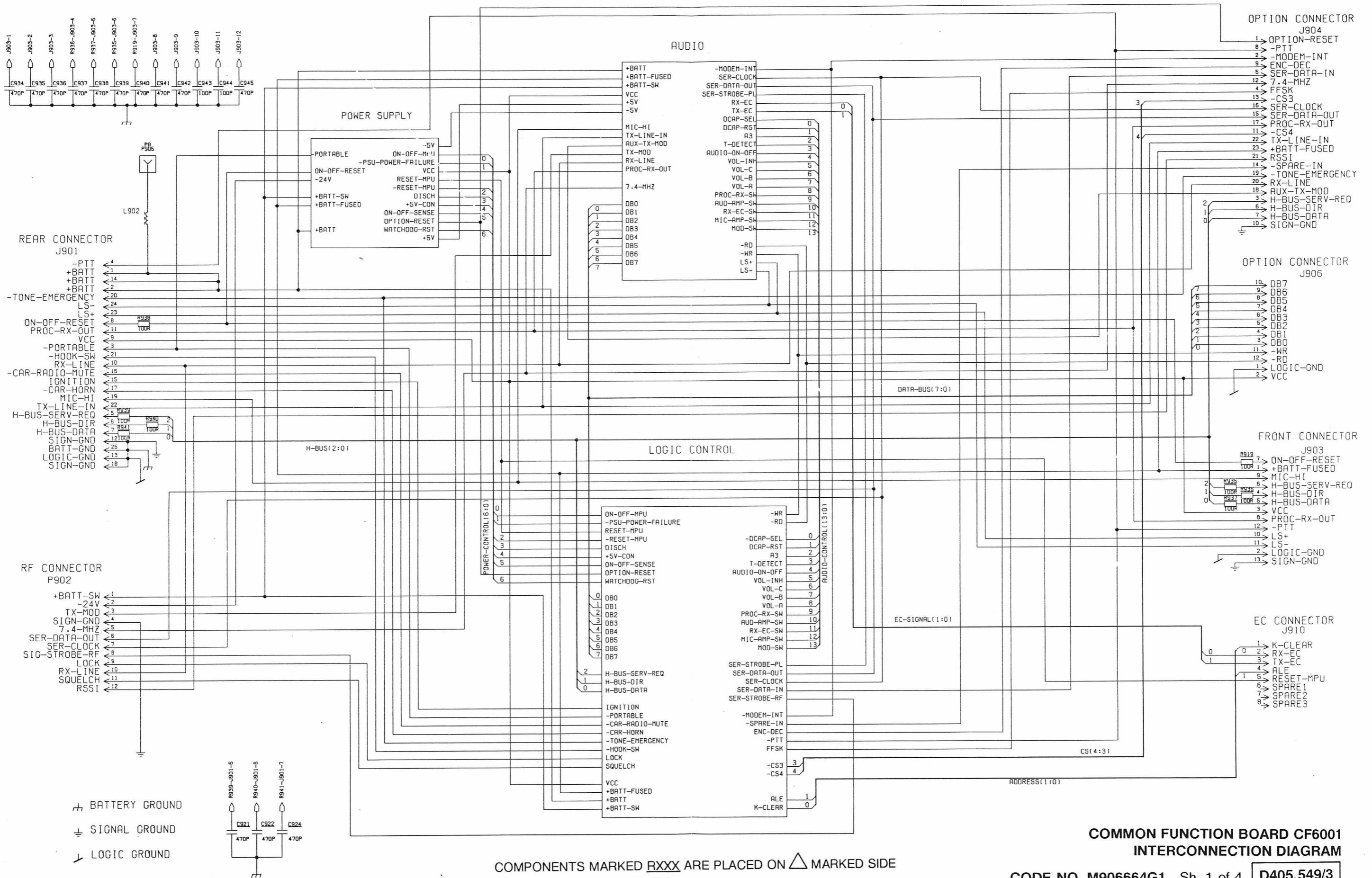
**COMMON FUNCTION BOARD CF6001
LOGIC CONTROL**



NOTE:
REMOVE AT 12.5 KHZ CHANNEL SPACING

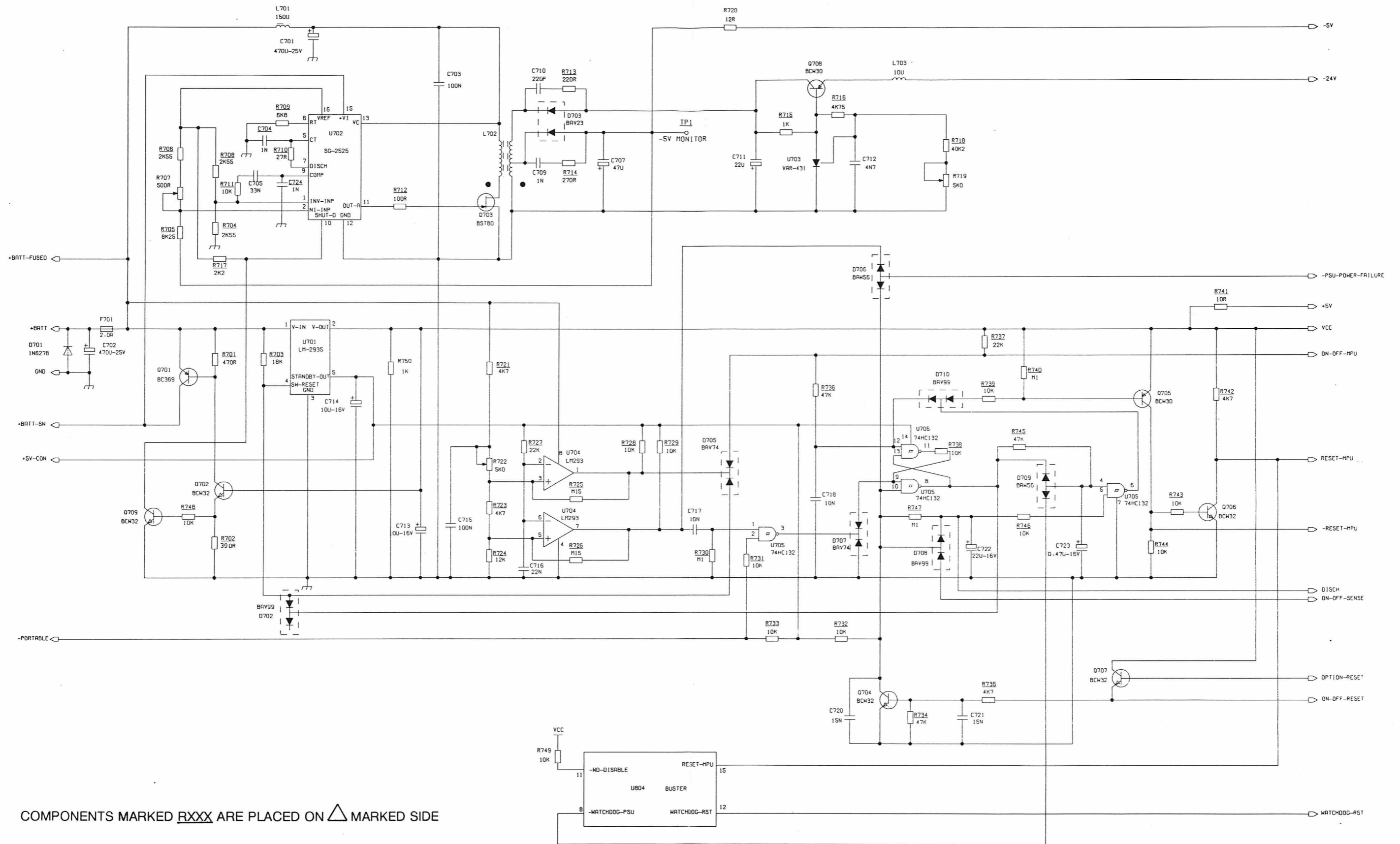
COMPONENTS MARKED RXXX ARE ON  MARKED SIDE

COMMON FUNCTION BOARD CF6001
AUDIO



**COMMON FUNCTION BOARD CF6001
INTERCONNECTION DIAGRAM**

CODE NO. M90664G1 Sh. 1 of 4 **D405.549/3**

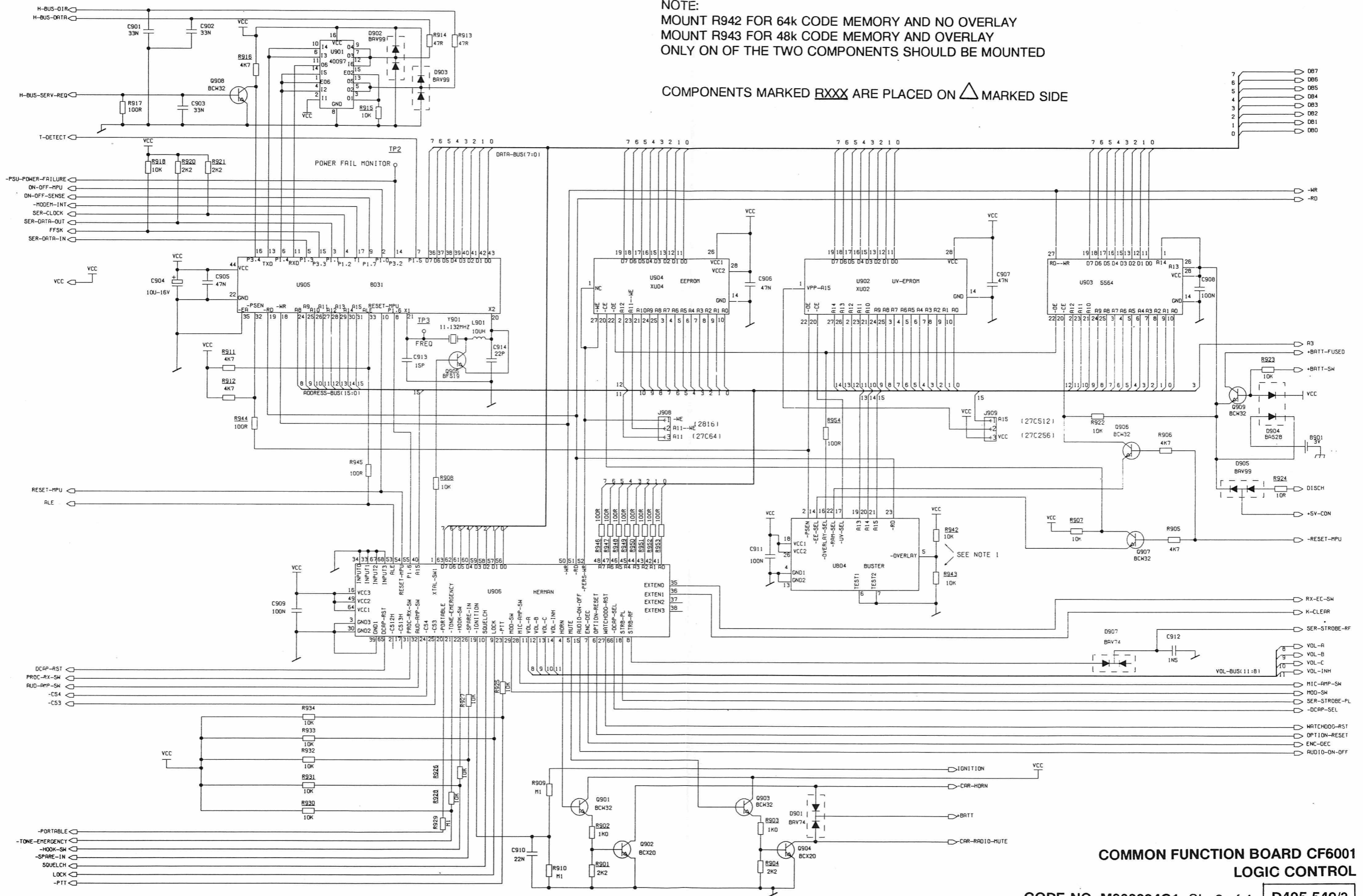


COMPONENTS MARKED XXXX ARE PLACED ON \triangle MARKED SIDE

**COMMON FUNCTION BOARD CF6001
POWER SUPPLY**

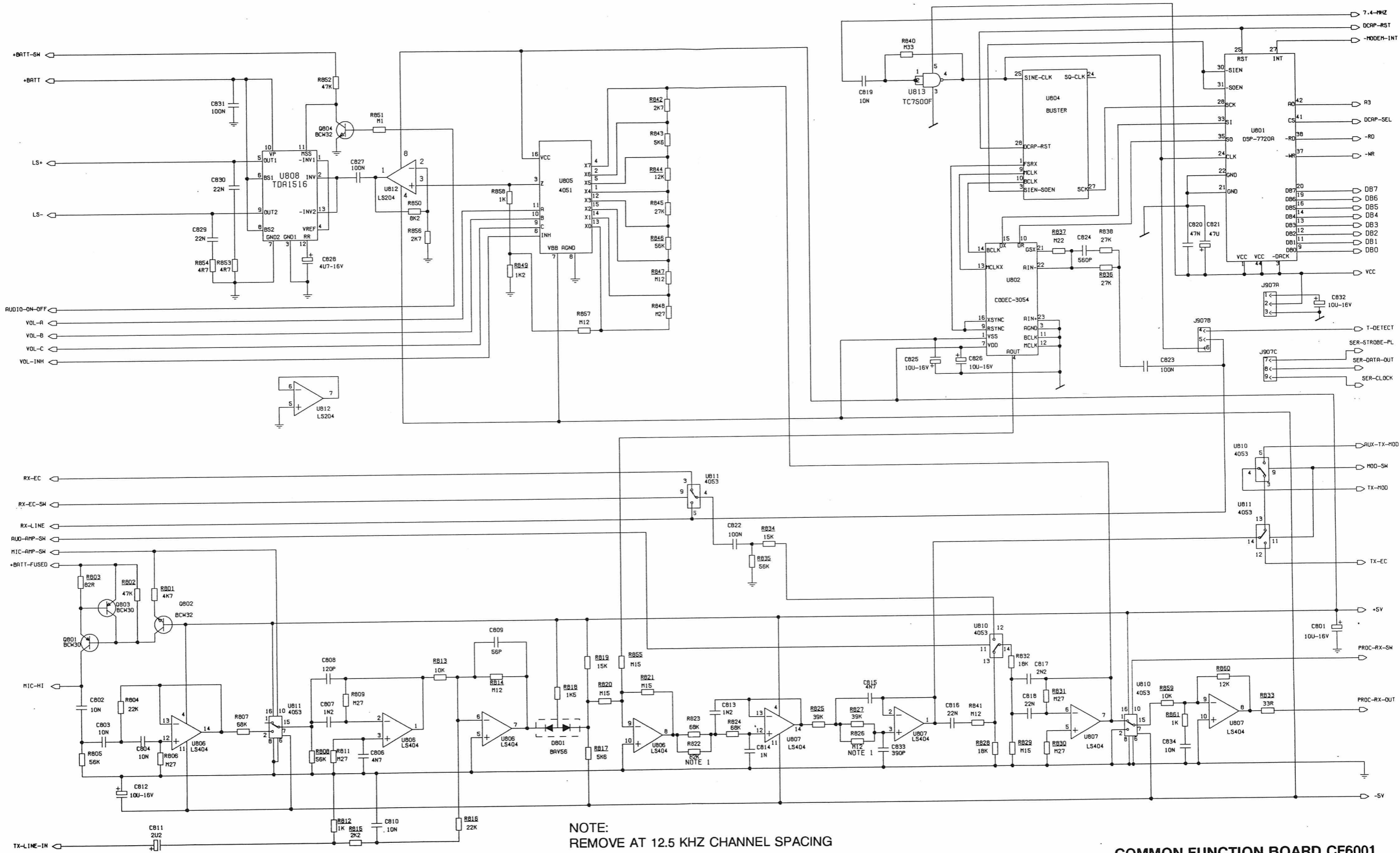
NOTE:
 MOUNT R942 FOR 64k CODE MEMORY AND NO OVERLAY
 MOUNT R943 FOR 48k CODE MEMORY AND OVERLAY
 ONLY ONE OF THE TWO COMPONENTS SHOULD BE MOUNTED

COMPONENTS MARKED RXXX ARE PLACED ON Δ MARKED SIDE



**COMMON FUNCTION BOARD CF6001
 LOGIC CONTROL**

CODE NO. M906664G1 Sh. 3 of 4 **D405.549/3**



NOTE:
REMOVE AT 12.5 KHZ CHANNEL SPACING

COMPONENTS MARKED RXXX ARE PLACED ON \triangle MARKED SIDE

**COMMON FUNCTION BOARD CF6001
AUDIO**

CODE NO. M90664G1 Sh. 4 of 4 **D405.549/3**

PARTS LIST FOR COMMON FUNCTION BOARD CF6001 : M906664G1/G2 BD REV.0

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENTS REVISED SINCE LAST EDITION ARE MARKED *					
C701	J706024P5	CAP,ELECT 470u , 25V	1	C903	2113741C05	CAP,CER,CL2 33n , 5%	1
C702	J706024P5	CAP,ELECT 470u , 25V	1	C904	2311049A18	CAP,TA,SOL 10u , 16V	1
C703	2113741C17	CAP,CER,CL2 100n , 5%	1	C905	2113741C09	CAP,CER,CL2 47n , 5%	1
C704	2113740B73	CAP,CER,NPO 1n0 , 5%	1	C906	2113741C09	CAP,CER,CL2 47n , 5%	1
C705	2113741C05	CAP,CER,CL2 33n , 5%	1	C907	2113741C09	CAP,CER,CL2 47n , 5%	1
C707	2311049A23	CAP,TA,SOL 47u , 10V	1	C908	2113741C17	CAP,CER,CL2 100n , 5%	1
C709	2113740B73	CAP,CER,NPO 1n0 , 5%	1	C909	2113741C17	CAP,CER,CL2 100n , 5%	1
C710	2113740B57	CAP,CER,NPO 220p , 5%	1	C910	2113741N53	CAP,CER,CL2 22n , 10%	1
C711	J706005P2	CAP,ELECT 22u , 40V	1	C911	2113741C17	CAP,CER,CL2 100n , 5%	1
C712	2113741M37	CAP,CER,CL2 4n7 , 10%	1	C912	2113741M25	CAP,CER,CL2 1n5 , 10%	1
C713	2311049A18	CAP,TA,SOL 10u , 16V	1	C913	2113740A33	CAP,CER,NPO 15p , 5%	1
C714	2311049A18	CAP,TA,SOL 10u , 16V	1	C914	2113740A37	CAP,CER,NPO 22p , 5%	1
C715	2113741C17	CAP,CER,CL2 100n , 5%	1	C921	2113740B65	CAP,CER,NPO 470p , 5%	1
C716	2113741N53	CAP,CER,CL2 22n , 10%	1	C922	2113740B65	CAP,CER,NPO 470p , 5%	1
C717	2113741M45	CAP,CER,CL2 10n , 10%	1	C924	2113740B65	CAP,CER,NPO 470p , 5%	1
C718	2113741M45	CAP,CER,CL2 10n , 10%	1	C934	2113741M13	CAP,CER,CL2 470p , 10%	1
C720	2113741M49	CAP,CER,CL2 15n , 10%	1	C935	2113741M13	CAP,CER,CL2 470p , 10%	1
C721	2113741M49	CAP,CER,CL2 15n , 10%	1	C936	2113741M13	CAP,CER,CL2 470p , 10%	1
C722	2311049A21	CAP,TA,SOL 22u , 20V	1	C937	2113741M13	CAP,CER,CL2 470p , 10%	1
C723	2311049A35	CAP,TA,SOL 0u47 , 25V	1	C938	2113741M13	CAP,CER,CL2 470p , 10%	1
C724	2113740B73	CAP,CER,NPO 1n0 , 5%	1	C939	2113741M13	CAP,CER,CL2 470p , 10%	1
C801	2311049A18	CAP,TA,SOL 10u , 16V	1	C940	2113741M13	CAP,CER,CL2 470p , 10%	1
C802	2113741M45	CAP,CER,CL2 10n , 10%	1	C941	2113741M13	CAP,CER,CL2 470p , 10%	1
C803	2113741M45	CAP,CER,CL2 10n , 10%	1	C942	2113741M13	CAP,CER,CL2 470p , 10%	1
C804	2113741M45	CAP,CER,CL2 10n , 10%	1	C943	2113740A55	CAP,CER,NPO 100p , 5%	1
C806	2113741M37	CAP,CER,CL2 4n7 , 10%	1	C944	2113740A55	CAP,CER,NPO 100p , 5%	1
C807	2113740C19	CAP,CER,NPO 1n2 , 5%	1	C945	2113741M13	CAP,CER,CL2 470p , 10%	1
C808	2113740A57	CAP,CER,NPO 120p , 5%	1	D701	J708407P2	DIO,SI,SUPPR 1N6278,20V	1
C809	2113740A49	CAP,CER,NPO 56p , 5%	1	D702	J707389P1	DIO,SI,SIG 8AV 99	1
C810	2113741M45	CAP,CER,CL2 10n , 10%	1	D703	J711365P1	DIO,SI,SIG 8AV 23	1
C811	2311049A09	CAP,TA,SOL 2u2 , 20V	1	D705	J707390P1	DIO,SI,SIG 8AV 74	1
C812	2311049A18	CAP,TA,SOL 10u , 16V	1	D706	J708681P1	DIO,SI,SIG 8AV 56	1
C813	2113740C19	CAP,CER,NPO 1n2 , 5%	1	D707	J707390P1	DIO,SI,SIG 8AV 74	1
C814	2113740B73	CAP,CER,NPO 1n0 , 5%	1	D708	J707389P1	DIO,SI,SIG 8AV 99	1
C815	2113740C33	CAP,CER,NPO 4n7 , 5%	1	D709	J708681P1	DIO,SI,SIG 8AV 56	1
C816	2113741N53	CAP,CER,CL2 22n , 10%	1	D710	J707389P1	DIO,SI,SIG 8AV 99	1
C817	2113740C25	CAP,CER,NPO 2n2 , 5%	1	D801	J708681P1	DIO,SI,SIG 8AV 56	1
C818	2113741N53	CAP,CER,CL2 22n , 10%	1	D901	J707390P1	DIO,SI,SIG 8AV 74	1
C819	2113741M45	CAP,CER,CL2 10n , 10%	1	D902	J707389P1	DIO,SI,SIG 8AV 99	1
C820	2113741C09	CAP,CER,CL2 47n , 5%	1	D903	J707389P1	DIO,SI,SIG 8AV 99	1
C821	2311049A23	CAP,TA,SOL 47u , 10V	1	D904	J711154P1	DIO,SI,SIG 8AS 28	1
C822	2113741C17	CAP,CER,CL2 100n , 5%	1	D905	J707389P1	DIO,SI,SIG 8AV 99	1
C823	2113741C17	CAP,CER,CL2 100n , 5%	1	D907	J707390P1	DIO,SI,SIG 8AV 74	1
C824	2113740A73	CAP,CER,NPO 560p , 5%	1	F701	J706998P7	FUSE,CTG 2.0A T	1
C825	2311049A18	CAP,TA,SOL 10u , 16V	1	J901	K805952P2	CONNECTOR D SUBMINIATURE	1
C826	2311049A18	CAP,TA,SOL 10u , 16V	1	J903	A700041P87	CONN,PWB,FEM 13-CKT	1
C827	2113741C17	CAP,CER,CL2 100n , 5%	1	J904	J706788P123	CONN,PWB,MALE 23-CKT	1
C828	2311049A14	CAP,TA,SOL 4u7 , 20V	1	J906	J706788P112	CONN,PWB,MALE 12-CKT	1
C829	2113741N53	CAP,CER,CL2 22n , 10%	1	J907	J707300P3	CONN,PWB,FEM 03-CKT	3
C830	2113741N53	CAP,CER,CL2 22n , 10%	1	J908	J706788P203	CONN,PWB,MALE 03-CKT	1
C831	2113741C17	CAP,CER,CL2 100n , 5%	1	J909	J706788P203	CONN,PWB,MALE 03-CKT	1
C832	2311049A18	CAP,TA,SOL 10u , 16V	1	J910	J706788P108	CONN,PWB,MALE 08-CKT	1
C833	2113740A69	CAP,CER,NPO 390p , 5%	1	L701	K805758G1	COIL ASM 24-4409 B01	1
C834	2113741M45	CAP,CER,CL2 10n , 10%	1	L702	K806133G1	COIL ASM 24-4416 B01	1
C901	2113741C05	CAP,CER,CL2 33n , 5%	1	L703	J710333P37	COIL,RF,FIX 10uH 10% 24-2154 B01	1
C902	2113741C05	CAP,CER,CL2 33n , 5%	1	L901	J710333P37	COIL,RF,FIX 10uH 10%	1
				L902	J709078G1	COIL ASM 24-2333Y01	1
				P902	J707064P112	CONN,PWB,FEM 12-CKT	1
				P905	A701883P4	CONN,PWB,FEM RECP	1

PARTS LIST FOR COMMON FUNCTION BOARD CF6001 : M906664G1/G2 BD REV.0

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
Q701	J707435P1	TSTR,PNP,SI 8C 369	1	R738	0611077A98	RES,MFLM,1/8W 10k , 5%	1
Q702	J707386P1	TSTR,NPN,SI 8CW 32	1	R739	0611077A98	RES,MFLM,1/8W 10k , 5%	1
Q703	J711364P1	TSTR,DFET,SI BST 80	1	R740	0611077B23	RES,MFLM,1/8W 100k , 5%	1
Q704	J707386P1	TSTR,NPN,SI 8CW 32	1	R741	0611077A26	RES,MFLM,1/8W 10R0 , 5%	1
Q705	J707387P1	TSTR,PNP,SI 8CW 30	1	R742	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
Q706	J707386P1	TSTR,NPN,SI 8CW 32	1	R743	0611077A98	RES,MFLM,1/8W 10k , 5%	1
Q707	J707386P1	TSTR,NPN,SI 8CW 32	1	R744	0611077A98	RES,MFLM,1/8W 10k , 5%	1
Q708	J707387P1	TSTR,PNP,SI 8CW 30	1	R745	0611077B15	RES,MFLM,1/8W 47k , 5%	1
Q709	J707386P1	TSTR,NPN,SI 8CW 32	1	R746	0611077A98	RES,MFLM,1/8W 10k , 5%	1
Q801	J707387P1	TSTR,PNP,SI 8CW 30	1	R747	0611077B23	RES,MFLM,1/8W 100k , 5%	1
Q802	J707386P1	TSTR,NPN,SI 8CW 32	1	R748	0611077A98	RES,MFLM,1/8W 10k , 5%	1
Q803	J707387P1	TSTR,PNP,SI 8CW 30	1	R749	0611077A98	RES,MFLM,1/8W 10k , 5%	1
Q804	J707386P1	TSTR,NPN,SI 8CW 32	1	R750	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1
Q901	J707386P1	TSTR,NPN,SI 8CW 32	1	R801	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
Q902	J707429P1	TSTR,NPN,SI 8CX 20	1	R802	0611077B15	RES,MFLM,1/8W 47k , 5%	1
Q903	J707386P1	TSTR,NPN,SI 8CW 32	1	R803	0611077A48	RES,MFLM,1/8W 82R , 5%	1
Q904	J707429P1	TSTR,NPN,SI 8CX 20	1	R804	0611077B07	RES,MFLM,1/8W 22k , 5%	1
Q905	J706310P1	TSTR,NPN,SI 8FS 19	1	R805	0611077B17	RES,MFLM,1/8W 56k , 5%	1
Q906	J707386P1	TSTR,NPN,SI 8CW 32	1	R806	0611077B33	RES,MFLM,1/8W 270k , 5%	1
Q907	J707386P1	TSTR,NPN,SI 8CW 32	1	R807	0611077B19	RES,MFLM,1/8W 68k , 5%	1
Q908	J707386P1	TSTR,NPN,SI 8CW 32	1	R808	0611077B17	RES,MFLM,1/8W 56k , 5%	1
Q909	J707386P1	TSTR,NPN,SI 8CW 32	1	R809	0611077B33	RES,MFLM,1/8W 270k , 5%	1
R701	0611077A66	RES,MFLM,1/8W 470R , 5%	1	R811	0611077B33	RES,MFLM,1/8W 270k , 5%	1
R702	0611077A64	RES,MFLM,1/8W 390R , 5%	1	R812	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1
R703	0611077B05	RES,MFLM,1/8W 18k , 5%	1	R813	0611077A98	RES,MFLM,1/8W 10k , 5%	1
R704	0611077F34	RES,MFLM,1/8W 2k55, 1%	1	R814	0611077B25	RES,MFLM,1/8W 120k , 5%	1
R705	0611077F83	RES,MFLM,1/8W 8k25, 1%	1	R815	0611077A82	RES,MFLM,1/8W 2k2 , 5%	1
R706	0611077F34	RES,MFLM,1/8W 2k55, 1%	1	R816	0611077B07	RES,MFLM,1/8W 22k , 5%	1
R707	J710708P3	RES,VAR,CERM 500R , 20%	1	R817	0611077A92	RES,MFLM,1/8W 5k6 , 5%	1
R708	0611077F34	RES,MFLM,1/8W 2k55, 1%	1	R818	0611077A78	RES,MFLM,1/8W 1k5 , 5%	1
R709	0611077A94	RES,MFLM,1/8W 6k8 , 5%	1	R819	0611077B03	RES,MFLM,1/8W 15k , 5%	1
R710	0611077A36	RES,MFLM,1/8W 27R , 5%	1	R820	0611077B27	RES,MFLM,1/8W 150k , 5%	1
R711	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R821	0611077B27	RES,MFLM,1/8W 150k , 5%	1
R712	0611077A50	RES,MFLM,1/8W 100R , 5%	1	R822	0611077B21	RES,MFLM,1/8W 82k , 5%	1
R713	0611077A58	RES,MFLM,1/8W 220R , 5%	1	R823	0611077B19	RES,MFLM,1/8W 68k , 5%	1
R714	0611077A60	RES,MFLM,1/8W 270R , 5%	1	R824	0611077B19	RES,MFLM,1/8W 68k , 5%	1
R715	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1	R825	0611077B13	RES,MFLM,1/8W 39k , 5%	1
R716	0611077F60	RES,MFLM,1/8W 4k75, 1%	1	R826	0611077B25	RES,MFLM,1/8W 120k , 5%	1
R717	0611077A82	RES,MFLM,1/8W 2k2 , 5%	1	R827	0611077B13	RES,MFLM,1/8W 39k , 5%	1
R718	0611077G50	RES,MFLM,1/8W 40k2 , 1%	1	R828	0611077B05	RES,MFLM,1/8W 18k , 5%	1
R719	J710708P6	RES,VAR,CERM 5k , 20%	1	R829	0611077B27	RES,MFLM,1/8W 150k , 5%	1
R720	0611077A28	RES,MFLM,1/8W 12R , 5%	1	R830	0611077B33	RES,MFLM,1/8W 270k , 5%	1
R721	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	R831	0611077B33	RES,MFLM,1/8W 270k , 5%	1
R722	J710708P6	RES,VAR,CERM 5k , 20%	1	R832	0611077B05	RES,MFLM,1/8W 18k , 5%	1
R723	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	R833	0611077A38	RES,MFLM,1/8W 33R , 5%	1
R724	0611077B01	RES,MFLM,1/8W 12k , 5%	1	R834	0611077B03	RES,MFLM,1/8W 15k , 5%	1
R725	0611077B27	RES,MFLM,1/8W 150k , 5%	1	R835	0611077B17	RES,MFLM,1/8W 56k , 5%	1
R726	0611077B27	RES,MFLM,1/8W 150k , 5%	1	R836	0611077B09	RES,MFLM,1/8W 27k , 5%	1
R727	0611077B07	RES,MFLM,1/8W 22k , 5%	1	R837	0611077B31	RES,MFLM,1/8W 220k , 5%	1
R728	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R838	0611077B09	RES,MFLM,1/8W 27k , 5%	1
R729	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R840	0611077B35	RES,MFLM,1/8W 330k , 5%	1
R730	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R841	0611077B25	RES,MFLM,1/8W 120k , 5%	1
R731	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R842	0611077A84	RES,MFLM,1/8W 2k7 , 5%	1
R732	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R843	0611077A92	RES,MFLM,1/8W 5k6 , 5%	1
R733	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R844	0611077B01	RES,MFLM,1/8W 12k , 5%	1
R734	0611077B15	RES,MFLM,1/8W 47k , 5%	1	R845	0611077B09	RES,MFLM,1/8W 27k , 5%	1
R735	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	R846	0611077B17	RES,MFLM,1/8W 56k , 5%	1
R736	0611077B15	RES,MFLM,1/8W 47k , 5%	1	R847	0611077B25	RES,MFLM,1/8W 120k , 5%	1
R737	0611077B07	RES,MFLM,1/8W 22k , 5%	1	R848	0611077B33	RES,MFLM,1/8W 270k , 5%	1

PARTS LIST FOR COMMON FUNCTION BOARD CF6001 : M906664G1/G2 BD REV.0

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R849	0611077A76	RES,MFLM,1/8W 1k2 , 5%	1	R947	0611077A50	RES,MFLM,1/8W 100R , 5%	1
R850	0611077A96	RES,MFLM,1/8W 8k2 , 5%	1	R948	0611077A50	RES,MFLM,1/8W 100R , 5%	1
R851	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R949	0611077A50	RES,MFLM,1/8W 100R , 5%	1
R852	0611077B15	RES,MFLM,1/8W 47k , 5%	1	R950	0611077A50	RES,MFLM,1/8W 100R , 5%	1
R853	0611077A18	RES,MFLM,1/8W 4R7 , 5%	1	R951	0611077A50	RES,MFLM,1/8W 100R , 5%	1
R854	0611077A18	RES,MFLM,1/8W 4R7 , 5%	1	R952	0611077A50	RES,MFLM,1/8W 100R , 5%	1
R855	0611077B27	RES,MFLM,1/8W 150k , 5%	1	R953	0611077A50	RES,MFLM,1/8W 100R , 5%	1
R856	0611077A84	RES,MFLM,1/8W 2k7 , 5%	1	R954	0611077A50	RES,MFLM,1/8W 100R , 5%	1
R857	0611077B25	RES,MFLM,1/8W 120k , 5%	1	U701	J711342P1	IC,LIN,VR,FIX 2935	1
R858	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1	U702	J711390P2	IC,LIN,PWM 2525A	1
R859	0611077A98	RES,MFLM,1/8W 10k , 5%	1	U703	J707448P3	IC,LIN,VR,VAR 431I	1
R860	0611077B01	RES,MFLM,1/8W 12k , 5%	1	U704	J708503P3	IC,LIN,CMPAR LM 293	1
R861	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1	U705	J708786P1	IC,DIG,GATE 74HC132	1
R901	0611077A82	RES,MFLM,1/8W 2k2 , 5%	1	U801	J708340P5	IC,DSP 77C20A-83	1
R902	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1	U802	J711414P1	IC,CODEC 6810	1
R903	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1	U804	J711465P1	IC,ARRAY,GATE CUSTOM DES	1
R904	0611077A82	RES,MFLM,1/8W 2k2 , 5%	1	U805	J707434P1	IC,DIG,MUX 4051	1
R905	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	U806	J708466P1	IC,LIN,OP-AMP 404	1
R906	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	U807	J708466P1	IC,LIN,OP-AMP 404	1
R907	0611077A98	RES,MFLM,1/8W 10k , 5%	1	U808	J710900P1	IC,LIN,AF-AMP 1516	1
R908	0611077A98	RES,MFLM,1/8W 10k , 5%	1	U810	J707434P2	IC,DIG,MUX 4053	1
R909	0611077B23	RES,MFLM,1/8W 100k , 5%	1	U811	J707434P2	IC,DIG,MUX 4053	1
R910	0611077B23	RES,MFLM,1/8W 100k , 5%	1	U812	J707859P1	IC,LIN,OP-AMP 204	1
R911	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	U813	5105461G61	IC,DIG,GATE 7500F	1
R912	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	U901	J707489P2	IC,DIG,BUFR 40097	1
R913	0611077A42	RES,MFLM,1/8W 47R , 5%	1	U903	J709825P3	IC,RAM,STAT 5564A	1
R914	0611077A42	RES,MFLM,1/8W 47R , 5%	1	U905	J709724P5	IC,uP,8-BIT 80C31F	1
R915	0611077A98	RES,MFLM,1/8W 10k , 5%	1	U906	J711468P1	IC,ARRAY,GATE CUSTOM DES	1
R916	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	XF01	J708025P1	FUSE HOLDER 5.0x20.0mm	1
R917	0611077A50	RES,MFLM,1/8W 100R , 5%	1	XF02	J708025P1	FUSE HOLDER 5.0x20.0mm	1
R918	0611077A98	RES,MFLM,1/8W 10k , 5%	1	XU02	J706356P9	SOC,IC,L-PRF 28 CKT	1
R919	0611077A50	RES,MFLM,1/8W 100R , 5%	1	XU04	J706356P9	SOC,IC,L-PRF 28 CKT	1
R920	0611077A82	RES,MFLM,1/8W 2k2 , 5%	1	Y901	J710405P1	CRYSTAL UNIT 11.1320MHz	1
R921	0611077A82	RES,MFLM,1/8W 2k2 , 5%	1		M906665P1R0	BD PW	1
R922	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R923	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R924	0611077A26	RES,MFLM,1/8W 10R0 , 5%	1				
R925	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R926	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R927	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R928	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R929	0611077B23	RES,MFLM,1/8W 100k , 5%	1				
R930	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R931	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R932	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R933	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R934	0611077A98	RES,MFLM,1/8W 10k , 5%	1				
R935	0611077A50	RES,MFLM,1/8W 100R , 5%	1				
R936	0611077A50	RES,MFLM,1/8W 100R , 5%	1				
R937	0611077A50	RES,MFLM,1/8W 100R , 5%	1				
R938	0611077A50	RES,MFLM,1/8W 100R , 5%	1				
R939	0611077A50	RES,MFLM,1/8W 100R , 5%	1				
R940	0611077A50	RES,MFLM,1/8W 100R , 5%	1				
R941	0611077A50	RES,MFLM,1/8W 100R , 5%	1				
R942	0611077A98	RES,MFLM,1/8W 10k , 5% G2 ✕	1				
R943	0611077A98	RES,MFLM,1/8W 10k , 5% G1 ✕	1				
R944	0611077A50	RES,MFLM,1/8W 100R , 5%	1				
R945	0611077A50	RES,MFLM,1/8W 100R , 5%	1				
R946	0611077A50	RES,MFLM,1/8W 100R , 5%	1				

PARTS LIST FOR COMMON FUNCTION BOARD CF6001 : M905708G1 BD REV.5/G

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENTS REVISED SINCE LAST EDITION ARE MARKED *					

C701	J706024P5	CAP,ELECT 470U , 25V	1	C835	J707444P7	CAP,TA,SOL 10U , 16V	1
C702	J706024P5	CAP,ELECT 470U , 25V	1	C836	21R13741C17	CAP,CER,CL2 100N , 5%	1
C703	21R13740A61	CAP,CER,NPO 180P , 5%	1	C837	21R13740A49	CAP,CER,NPO 56P , 5%	1
C704	J707444P8	CAP,TA,SOL 22U , 16V	1	C838	21R13741C17	CAP,CER,CL2 100N , 5%	1
C705	J706005P2	CAP,ELECT 22U , 40V	1	C839	21R13740A73	CAP,CER,NPO 560P , 5%	1
C706	J707444P17	CAP,TA,SOL 47U , 10V	1	C903	21R13741C05	CAP,CER,CL2 33N , 5%	1
C707	J707444P17	CAP,TA,SOL 47U , 10V	1	C906	21R13741C05	CAP,CER,CL2 33N , 5%	1
C708	21R13741M45	CAP,CER,CL2 10N , 10%	1	C907	21R13741C05	CAP,CER,CL2 33N , 5%	1
C709	J707353P3	CAP,ELECT 0U47 , 50V	1	C909	21R13741M25	CAP,CER,CL2 1N5 , 10%	1
C710	J707353P8	CAP,ELECT 22U , 10V	1	C910	21R13741N53	CAP,CER,CL2 22N , 10%	1
C711	J707444P7	CAP,TA,SOL 10U , 16V	1	C911	21R13741C09	CAP,CER,CL2 47N , 5%	1
C712	21R13741C17	CAP,CER,CL2 100N , 5%	1	C912	21R13741C09	CAP,CER,CL2 47N , 5%	1
C713	21R13741M25	CAP,CER,CL2 1N5 , 10%	1	C913	21R13741C09	CAP,CER,CL2 47N , 5%	1
C714	21R13741C17	CAP,CER,CL2 100N , 5%	1	C914	21R13741C09	CAP,CER,CL2 47N , 5%	1
C715	21R13741M45	CAP,CER,CL2 10N , 10%	1	C915	J707444P7	CAP,TA,SOL 10U , 16V	1
C716	21R13741C17	CAP,CER,CL2 100N , 5%	1	C916	21R13741C09	CAP,CER,CL2 47N , 5%	1
C717	21R13741M49	CAP,CER,CL2 15N , 10%	1	C917	21R13741C17	CAP,CER,CL2 100N , 5%	1
C718	21R13741M49	CAP,CER,CL2 15N , 10%	1	C919	21R13741C09	CAP,CER,CL2 47N , 5%	1
C719	21R13741M37	CAP,CER,CL2 4N7 , 10%	1	C920	21R13741C09	CAP,CER,CL2 47N , 5%	1
C720	21R13741M45	CAP,CER,CL2 10N , 10%	1	C921	21R13740A33	CAP,CER,NPO 15P , 5%	1
C721	21R13741N53	CAP,CER,CL2 22N , 10%	1	C923	21R13740A37	CAP,CER,NPO 22P , 5%	1
C801	21R13741M37	CAP,CER,CL2 4N7 , 10%	1	C924	21R13740A55	CAP,CER,NPO 100P , 5%	1
C802	J707412P3	CAP,PYES 10N , 10%	1	C925	21R13741M13	CAP,CER,CL2 470P , 10%	1
C803	J707412P3	CAP,PYES 10N , 10%	1	C926	21R13740A55	CAP,CER,NPO 100P , 5%	1
C804	J707412P3	CAP,PYES 10N , 10%	1	C927	21R13741M13	CAP,CER,CL2 470P , 10%	1
C805	21R13740C19	CAP,CER,NPO 1N2 , 5%	1	C928	21R13741M13	CAP,CER,CL2 470P , 10%	1
C806	21R13740A57	CAP,CER,NPO 120P , 5%	1	C929	21R13741M13	CAP,CER,CL2 470P , 10%	1
C807	21R13741M37	CAP,CER,CL2 4N7 , 10%	1	C930	21R13741M49	CAP,CER,CL2 15N , 10%	1
C808	J707353P5	CAP,ELECT 2U2 , 50V	1	C931	21R13741M13	CAP,CER,CL2 470P , 10%	1
C809	21R13741M45	CAP,CER,CL2 10N , 10%	1	C932	21R13741M49	CAP,CER,CL2 15N , 10%	1
C810	21R13740C19	CAP,CER,NPO 1N2 , 5%	1	C933	21R13741M13	CAP,CER,CL2 470P , 10%	1
C811	21R13740B73	CAP,CER,NPO 1N0 , 5%	1	C934	21R13741M13	CAP,CER,CL2 470P , 10%	1
C812	21R13740C33	CAP,CER,NPO 4N7 , 5%	1	C935	21R13741M13	CAP,CER,CL2 470P , 10%	1
C813	21R13740A69	CAP,CER,NPO 390P , 5%	1	C936	21R13741M13	CAP,CER,CL2 470P , 10%	1
C814	21R13741N53	CAP,CER,CL2 22N , 10%	1	C937	21R13741M13	CAP,CER,CL2 470P , 10%	1
C815	J707412P105	CAP,PYES 22N , 5%	1	C938	21R13741M49	CAP,CER,CL2 15N , 10%	1
C816	21R13741C17	CAP,CER,CL2 100N , 5%	1	C939	21R13741M13	CAP,CER,CL2 470P , 10%	1
C817	J707353P9	CAP,ELECT 47U , 16V	1	C940	21R13741M49	CAP,CER,CL2 15N , 10%	1
C818	21R13741C17	CAP,CER,CL2 100N , 5%	1	C941	21R13741M49	CAP,CER,CL2 15N , 10%	1
C819	J707353P6	CAP,ELECT 4U7 , 25V	1	C942	21R13741M13	CAP,CER,CL2 470P , 10%	1
C820	21R13741C17	CAP,CER,CL2 100N , 5%	1	C943	21R13741M13	CAP,CER,CL2 470P , 10%	1
C821	21R13740A67	CAP,CER,NPO 330P , 5%	1	C944	21R13741M13	CAP,CER,CL2 470P , 10%	1
C822	21R13741C17	CAP,CER,CL2 100N , 5%	1	C945	21R13741M13	CAP,CER,CL2 470P , 10%	1
C823	J707353P7	CAP,ELECT 10U , 16V	1	C946	21R13741M13	CAP,CER,CL2 470P , 10%	1
C824	21R13741C17	CAP,CER,CL2 100N , 5%	1	C947	21R13741M13	CAP,CER,CL2 470P , 10%	1
C825	J707444P7	CAP,TA,SOL 10U , 16V	1	C948	21R13741M13	CAP,CER,CL2 470P , 10%	1
C826	21R13741C09	CAP,CER,CL2 47N , 5%	1	C949	21R13741M13	CAP,CER,CL2 470P , 10%	1
C827	J707444P9	CAP,TA,SOL 47U , 6V	1	C950	21R13741M13	CAP,CER,CL2 470P , 10%	1
C828	21R13741M37	CAP,CER,CL2 4N7 , 10%	1	C951	21R13741M13	CAP,CER,CL2 470P , 10%	1
C829	21R13740C25	CAP,CER,NPO 2N2 , 5%	1	C952	21R13740A55	CAP,CER,NPO 100P , 5%	1
C830	21R13741C17	CAP,CER,CL2 100N , 5%	1	C953	21R13740A55	CAP,CER,NPO 100P , 5%	1
C831	21R13741M45	CAP,CER,CL2 10N , 10%	1	C954	21R13741M13	CAP,CER,CL2 470P , 10%	1
C832	J707353P9	CAP,ELECT 47U , 16V	1	D701	A700028P1	DIO,SI,SIG 1N4148	1
C833	J707444P7	CAP,TA,SOL 10U , 16V	1	D702	J707389P1	DIO,SI,SIG 8AV 99	1
C834	J707444P7	CAP,TA,SOL 10U , 16V	1	D703	J708734P1	DIO,SI,PWR 8YV 28-100	1
				D704	J706270P5	DIO,SI,ZENR 4V7,2%,0.4W	1
				D705	J709207P1	THYRSTR,SCR CF 106-F2	1
				D706	J708681P1	DIO,SI,SIG 8AV 56	1
				D707	J707390P1	DIO,SI,SIG 8AV 74	1

PARTS LIST FOR COMMON FUNCTION BOARD CF6001 : M905708G1 BD REV.5/G

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
D708	J708681P1	DIO,SI,SIG BAW 56	1	R704	J707385P470	RES,MFLM,1/8W 47R , 5%	1
D709	J707389P1	DIO,SI,SIG BAV 99	1	R705	J707385P153	RES,MFLM,1/8W 15K , 5%	1
D710	J707390P1	DIO,SI,SIG BAV 74	1	R706	J707385P101	RES,MFLM,1/8W 100R , 5%	1
D711	J707448P4	IC,LIN,VR,VAR 431	1	R707	J707385P100	RES,MFLM,1/8W 10R , 5%	1
D712	J708407P2	DIO,SI,SUPPR 1N6278,20V	1	R708	J707385P562	RES,MFLM,1/8W 5K6 , 5%	1
D713	J707390P1	DIO,SI,SIG BAV 74	1	R709	J708538P5	RES,VAR,CERM 10K , 20%	1
D714	J707389P1	DIO,SI,SIG BAV 99	1	R710	J707385P823	RES,MFLM,1/8W 82K , 5%	1
D801	J708681P1	DIO,SI,SIG BAW 56	1	R711	J707385P101	RES,MFLM,1/8W 100R , 5%	1
D901	J707390P1	DIO,SI,SIG BAV 74	1	R712	J707385P224	RES,MFLM,1/8W 220K , 5%	1
D902	J707389P1	DIO,SI,SIG BAV 99	1	R713	J707385P824	RES,MFLM,1/8W 820K , 5%	1
D903	J707389P1	DIO,SI,SIG BAV 99	1	R714	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1
D904	A700028P1	DIO,SI,SIG 1N4148	1	R715	J707385P473	RES,MFLM,1/8W 47K , 5%	1
D905	J707389P1	DIO,SI,SIG BAV 99	1	R716	J709247P1	RES,MFLM,1/4W 0R1, 10%	1
D906	J707390P1	DIO,SI,SIG BAV 74	1	R717	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1
D907	J707390P1	DIO,SI,SIG BAV 74	1	R718	J709328P266	RES,MFLM,1/8W 4K75, 1%	1
F701	J706998P7	FUSE,CTG 2.0A T	1	R719	J708538P4	RES,VAR,CERM 5K0 , 20%	1
I015	J706804P2	WASH,INS,CRYST FOR HC-18/U	1	R720	J709328P359	RES,MFLM,1/8W 40K2 , 1%	1
J901	K805952P1	CONNECTOR D SUBMINIATURE	1	R721	J707385P102	RES,MFLM,1/8W 1K0 , 5%	1
J903	A700041P87	CONN,PWB,FEM 13-CKT	1	R722	J707385P150	RES,MFLM,1/8W 15R , 5%	1
J904	J708925P3	CONN PT,PIN L19.25MM	2 23	R723	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1
J906	J708925P3	CONN PT,PIN L19.25MM	1 12	R724	J707385P182	RES,MFLM,1/8W 1K8 , 5%	1
J907	J707300P3	CONN,PWB,FEM 03-CKT	3	R725	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
J908	J708925P2	CONN PT,PIN L11.70MM	3	R726	J707385P102	RES,MFLM,1/8W 1K0 , 5%	1
J909	J708925P2	CONN PT,PIN L11.70MM	3	R727	J707385P563	RES,MFLM,1/8W 56K , 5%	1
L701	K805758G1	COIL ASM	1	R728	J707385P120	RES,MFLM,1/8W 12R , 5%	1
L702	K805559G1	COIL ASM	1	R729	J707385P100	RES,MFLM,1/8W 10R , 5%	1
L703	J710333P37	COIL,RF,FIX 10UH 10%	1	R730	J707385P221	RES,MFLM,1/8W 220R , 5%	1
L901	J710333P37	COIL,RF,FIX 10UH 10%	1	R731	J707385P101	RES,MFLM,1/8W 100R , 5%	1
P902	J707064P112	CONN,PWB,FEM 12-CKT	1	R732	J707385P471	RES,MFLM,1/8W 470R , 5%	1
P905	A701883P4	CONN,PWB,FEM RECP	1	R733	J707385P473	RES,MFLM,1/8W 47K , 5%	1
Q701	J707435P1	TSTR,PNP,SI BC 369	1	R734	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q702	J707435P1	TSTR,PNP,SI BC 369	1	R735	J707385P154	RES,MFLM,1/8W 150K , 5%	1
Q703	J707267P2	TSTR,NPN,SI BC 338-25	1	R736	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q705	J707386P1	TSTR,NPN,SI BCW 32	1	R737	J707385P473	RES,MFLM,1/8W 47K , 5%	1
Q707	J707387P1	TSTR,PNP,SI BCW 30	1	R738	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q708	J707386P1	TSTR,NPN,SI BCW 32	1	R739	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q710	J707387P1	TSTR,PNP,SI BCW 30	1	R740	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
Q712	J707435P1	TSTR,PNP,SI BC 369	1	R741	J707385P123	RES,MFLM,1/8W 12K , 5%	1
Q713	J707511P1	TSTR,NPN,SI BC 548A/B	1	R742	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q715	J707386P1	TSTR,NPN,SI BCW 32	1	R743	J708538P4	RES,VAR,CERM 5K0 , 20%	1
Q716	J707386P1	TSTR,NPN,SI BCW 32	1	R744	J707385P223	RES,MFLM,1/8W 22K , 5%	1
Q717	J707387P1	TSTR,PNP,SI BCW 30	1	R745	J707385P154	RES,MFLM,1/8W 150K , 5%	1
Q718	J707386P1	TSTR,NPN,SI BCW 32	1	R746	J707385P104	RES,MFLM,1/8W 100K , 5%	1
Q801	J707387P1	TSTR,PNP,SI BCW 30	1	R747	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q802	J707386P1	TSTR,NPN,SI BCW 32	1	R748	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q803	J707387P1	TSTR,PNP,SI BCW 30	1	R749	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
Q804	J707386P1	TSTR,NPN,SI BCW 32	1	R750	J707385P473	RES,MFLM,1/8W 47K , 5%	1
Q901	J707386P1	TSTR,NPN,SI BCW 32	1	R751	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
Q902	J707429P1	TSTR,NPN,SI BCX 20	1	R752	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
Q903	J707386P1	TSTR,NPN,SI BCW 32	1	R753	J707385P104	RES,MFLM,1/8W 100K , 5%	1
Q904	J707429P1	TSTR,NPN,SI BCX 20	1	R754	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q905	J706310P1	TSTR,NPN,SI BFS 19	1	R755	J707385P223	RES,MFLM,1/8W 22K , 5%	1
Q906	J707386P1	TSTR,NPN,SI BCW 32	1	R756	J707385P104	RES,MFLM,1/8W 100K , 5%	1
Q907	J707386P1	TSTR,NPN,SI BCW 32	1	R757	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q909	J707386P1	TSTR,NPN,SI BCW 32	1	R758	J707385P103	RES,MFLM,1/8W 10K , 5%	1
Q910	J707511P1	TSTR,NPN,SI BC 548A/B	1	R759	J707385P471	RES,MFLM,1/8W 470R , 5%	1
R701	J707385P221	RES,MFLM,1/8W 220R , 5%	1	R760	J707385P563	RES,MFLM,1/8W 56K , 5%	1
R702	J707385P470	RES,MFLM,1/8W 47R , 5%	1	R761	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
R703	J707385P221	RES,MFLM,1/8W 220R , 5%	1	R762	J707385P103	RES,MFLM,1/8W 10K , 5%	1

PARTS LIST FOR COMMON FUNCTION BOARD CF6001 : M905708G1 BD REV.5/G

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R763	J707385P104	RES,MFLM,1/8W 100K , 5%	1	R859	J707385P563	RES,MFLM,1/8W 56K , 5%	1
R801	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1	R860	J707385P334	RES,MFLM,1/8W 330K , 5%	1
R802	J707385P473	RES,MFLM,1/8W 47K , 5%	1	R863	J707385P563	RES,MFLM,1/8W 56K , 5%	1
R803	J707385P820	RES,MFLM,1/8W 82R , 5%	1	R864	J707385P154	RES,MFLM,1/8W 150K , 5%	1
R804	J707385P274	RES,MFLM,1/8W 270K , 5%	1	R866	J707385P683	RES,MFLM,1/8W 68K , 5%	1
R805	J707385P563	RES,MFLM,1/8W 56K , 5%	1	R867	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
R806	J707385P223	RES,MFLM,1/8W 22K , 5%	1	R868	J707385P224	RES,MFLM,1/8W 220K , 5%	1
R807	J707385P274	RES,MFLM,1/8W 270K , 5%	1	R869	J707385P121	RES,MFLM,1/8W 120R , 5%	1
R808	J707385P153	RES,MFLM,1/8W 15K , 5%	1	R901	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1
R809	J707385P683	RES,MFLM,1/8W 68K , 5%	1	R902	J707385P102	RES,MFLM,1/8W 1K0 , 5%	1
R810	J707385P563	RES,MFLM,1/8W 56K , 5%	1	R903	J707385P102	RES,MFLM,1/8W 1K0 , 5%	1
R811	J707385P274	RES,MFLM,1/8W 270K , 5%	1	R904	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1
R812	J707385P103	RES,MFLM,1/8W 10K , 5%	1	R905	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1
R813	J707385P274	RES,MFLM,1/8W 270K , 5%	1	R906	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1
R814	J707385P223	RES,MFLM,1/8W 22K , 5%	1	R907	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
R815	J707385P124	RES,MFLM,1/8W 120K , 5%	1	R908	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
R816	J707385P102	RES,MFLM,1/8W 1K0 , 5%	1	R909	J707385P104	RES,MFLM,1/8W 100K , 5%	1
R817	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1	R910	J707385P104	RES,MFLM,1/8W 100K , 5%	1
R818	J707385P152	RES,MFLM,1/8W 1K5 , 5%	1	R911	J707385P101	RES,MFLM,1/8W 100R , 5%	1
R819	J707385P274	RES,MFLM,1/8W 270K , 5%	1	R912	J707385P101	RES,MFLM,1/8W 100R , 5%	1
R820	J707385P153	RES,MFLM,1/8W 15K , 5%	1	R913	J707385P101	RES,MFLM,1/8W 100R , 5%	1
R821	J707385P154	RES,MFLM,1/8W 150K , 5%	1	R914	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
R822	J707385P562	RES,MFLM,1/8W 5K6 , 5%	1	R915	J707385P101	RES,MFLM,1/8W 100R , 5%	1
R823	J707385P154	RES,MFLM,1/8W 150K , 5%	1	R916	J707385P470	RES,MFLM,1/8W 47R , 5%	1
R824	J707385P154	RES,MFLM,1/8W 150K , 5%	1	R917	J707385P101	RES,MFLM,1/8W 100R , 5%	1
R825	J707385P683	RES,MFLM,1/8W 68K , 5%	1	R918	J707385P470	RES,MFLM,1/8W 47R , 5%	1
R826	A700019P60	RES,DEPC,1/4W 82K , 5%	1	R919	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R827	J707385P683	RES,MFLM,1/8W 68K , 5%	1	R920	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R828	J707385P393	RES,MFLM,1/8W 39K , 5%	1	R921	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
R829	J707385P393	RES,MFLM,1/8W 39K , 5%	1	R922	J707385P101	RES,MFLM,1/8W 100R , 5%	1
R830	A700019P62	RES,DEPC,1/4W 120K , 5%	1	R923	J707385P472	RES,MFLM,1/8W 4K7 , 5%	1
R831	J707385P124	RES,MFLM,1/8W 120K , 5%	1	R924	J707385P101	RES,MFLM,1/8W 100R , 5%	1
R832	J707385P183	RES,MFLM,1/8W 18K , 5%	1	R925	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R833	J707385P123	RES,MFLM,1/8W 12K , 5%	1	R926	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R834	J707385P274	RES,MFLM,1/8W 270K , 5%	1	R927	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R835	J707385P273	RES,MFLM,1/8W 27K , 5%	1	R928	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R836	J707385P153	RES,MFLM,1/8W 15K , 5%	1	R930	J707385P910	RES,MFLM,1/8W 1R0 , 20%	1
R837	J707385P101	RES,MFLM,1/8W 100R , 5%	1	R931	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R838	J707385P224	RES,MFLM,1/8W 220K , 5%	1	R932	J707385P100	RES,MFLM,1/8W 10R , 5%	1
R839	J707385P273	RES,MFLM,1/8W 27K , 5%	1	R933	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R840	J707385P272	RES,MFLM,1/8W 2K7 , 5%	1	R934	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R841	J707385P562	RES,MFLM,1/8W 5K6 , 5%	1	R935	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R842	J707385P123	RES,MFLM,1/8W 12K , 5%	1	R936	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R843	J707385P273	RES,MFLM,1/8W 27K , 5%	1	R937	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R844	J707385P563	RES,MFLM,1/8W 56K , 5%	1	R940	J707385P910	RES,MFLM,1/8W 1R0 , 20%	1
R845	J707385P124	RES,MFLM,1/8W 120K , 5%	1	R941	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R846	J707385P274	RES,MFLM,1/8W 270K , 5%	1	R942	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R847	J707385P124	RES,MFLM,1/8W 120K , 5%	1	R943	J707385P103	RES,MFLM,1/8W 10K , 5%	1
R848	J707385P102	RES,MFLM,1/8W 1K0 , 5%	1	R944	J707385P104	RES,MFLM,1/8W 100K , 5%	1
R849	J707385P122	RES,MFLM,1/8W 1K2 , 5%	1	U701	J708786P1	IC,DIG,GATE 74HC132	1
R850	J707385P104	RES,MFLM,1/8W 100K , 5%	1	U702	J708503P1	IC,LIN,CMPAR LM 239	1
R851	J707385P104	RES,MFLM,1/8W 100K , 5%	1	U703	J708786P2	IC,DIG,GATE 74HC00	1
R852	J707385P104	RES,MFLM,1/8W 100K , 5%	1	U704	J707331P3	IC,DIG,CNTR 4060	1
R853	J707385P272	RES,MFLM,1/8W 2K7 , 5%	1	U705	J707242P2	IC,DIG,FF-D 4013	1
R854	J707385P104	RES,MFLM,1/8W 100K , 5%	1	U706	J707837P1	IC,LIN,VR,FIX 2931	1
R855	J707385P182	RES,MFLM,1/8W 1K8 , 5%	1	U801	J708340P2	IC,DSP 77C20A	1
R856	J707385P947	RES,MFLM,1/8W 4R7 , 20%	1	U802	J708872P1	IC,CODEC 3054	1
R857	J707385P947	RES,MFLM,1/8W 4R7 , 20%	1	U803	J708789P1	IC,DIG,FF-D 74HC173	1
R858	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1	U804	J710162P1	IC,DIG,CNTR HEF 4040	1

PARTS LIST FOR COMMON FUNCTION BOARD CF6001 : M905708G1 BD REV.5/G

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
U805	A700029P36	IC,DIG,MUX 4051	1				
U806	J708466P1	IC,LIN,OP-AMP 404	1				
U807	J708466P1	IC,LIN,OP-AMP 404	1				
U808	J709055P1	IC,LIN,AF-AMP 1515	1				
U809	J708786P3	IC,DIG,GATE 74HC02	1				
U810	J707434P2	IC,DIG,MUX 4053	1				
U811	J708789P1	IC,DIG,FF-D 74HC173	1				
U901	J707489P2	IC,DIG,BUFR 40097	1				
U903	J707880P3	IC,DIG,LTH 74HC573	1				
U905	J709825P2	IC,RAM,STAT 5564	1				
U906	J707894P2	IC,UP,8-BIT 8031	1				
U907	J708786P2	IC,DIG,GATE 74HC00	1				
U908	J707331P1	IC,DIG,CNTR 4017	1				
U909	J708789P1	IC,DIG,FF-D 74HC173	1				
U910	J708790P3	IC,DIG,LTH 74HC573	1				
U911	J708787P1	IC,DIG,DECO 74HC138	1				
U912	J708786P2	IC,DIG,GATE 74HC00	1				
U913	J708789P1	IC,DIG,FF-D 74HC173	1				
U914	J708786P2	IC,DIG,GATE 74HC00	1				
XF01	J708025P1	FUSE HOLDER 5.0X20.0MM	1				
XF02	J708025P1	FUSE HOLDER 5.0X20.0MM	1				
XU02	J706356P9	SOC,IC,L-PRF 28 CKT	1				
XU04	J706356P9	SOC,IC,L-PRF 28 CKT	1				
Y901	J710403P1	CRYSTAL UNIT 11.1320MHZ	1				
	M905709P1R5	BD,PW,SMD,DS CF 6001	1				
		NON REFERENCED ITEMS:					
	J708561P3	COIL FIXED	1				
	J708561P3	COIL FIXED	1				
	J709528P1	BUSHING	1				
	J709528P1	BUSHING	1				

IU6001

- Description
- Electrical Diagram
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- Parts list

EC600X

- Description
- Component layout
- Electrical Diagram
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EC6001 & EC6002

ENCRYPTION MODULES

The EC6001 board contains circuitry for encryption and RSSI, while the EC6002 board only contains circuitry for encryption.

CIRCUIT DESCRIPTION

ENCRYPTION CIRCUIT

ON/OFF Circuit

When switching on the radio +5 V will be supplied to the base of Q201 and, via Q202, supply 13.2 V to the board. The function of the circuit built around Q302 and Q303 is to switch off the 7.5 V very fast.

Power Regulators

There are 2 different power supplies. The power supply built around U201 is a simple +5 V IC regulator. The power supply built around U202 is an adjustable IC regulator, with an output voltage of 7.5 V.

RX Audio Processor

The RX Audio Processor contains two different circuits:

- Line Amplifier with fixed gain
- Amplifier with adjustable gain

Line Amplifier

The function of the audio amplifier is to match the line level (110 mV) to the optimum value for the encryption module.

The amplifier is built around U302 and has a gain of 3.3 dB.

Amplifier with adjustable gain

The function of amplifier is to match the output level from the encryption modul to the right value used in the radio.

The gain is adjustable between -9 dB and +6 dB.

TX Audio Processor

The TX Audio Processor contains two different circuits:

- Adjustable Amplifier
- Low-Pass filter

Adjustable Amplifier:

The Adjustable Amplifier consists of U303-A and associated components. The gain is adjustable between ± 12 dB.

Low-Pass Filter:

The Low-Pass filter is built up around U303-B. It is a second order Bessel filter with a -3 dB cut-off frequency of 20 kHz.

Code-Clear Circuit

The Code-Clear circuit makes it possible to destroy the code in the encryption module. It is built up around U307 and U308. The circuit also includes a back-up battery for the encryption module.

Sunshine Bus Driver

The encryption module uses a serial bus called the Sunshine Bus. The conversion from this format to the 8-bit bus used in CQM6000 is made by the UART, U304. The clock is generated by dividing the 7.4 MHz from the RF6000-board.

RSSI CIRCUIT

Voltage Regulator

The Voltage Regulator built around U105 is a simple +5 V IC regulator.

The A/D Converter

The purpose of the A/D converter is to translate a voltage from the RA6004 detector module into a code of 8 bits. After buffering in the operational amplifier U100 the voltage from RA6004 is fed to the A/D converter U101. The A/D converter is free running and is initialised during power up by the reset option (J904 pin 1).

The clock frequency is about 600 kHz. A buffer/latch (U102) is used to decrease the output disable time of the A/D converter.

SPECIFICATIONS

Operating voltage

10.8 - 15.6 V DC (13.2 V nom)

Temperature Range

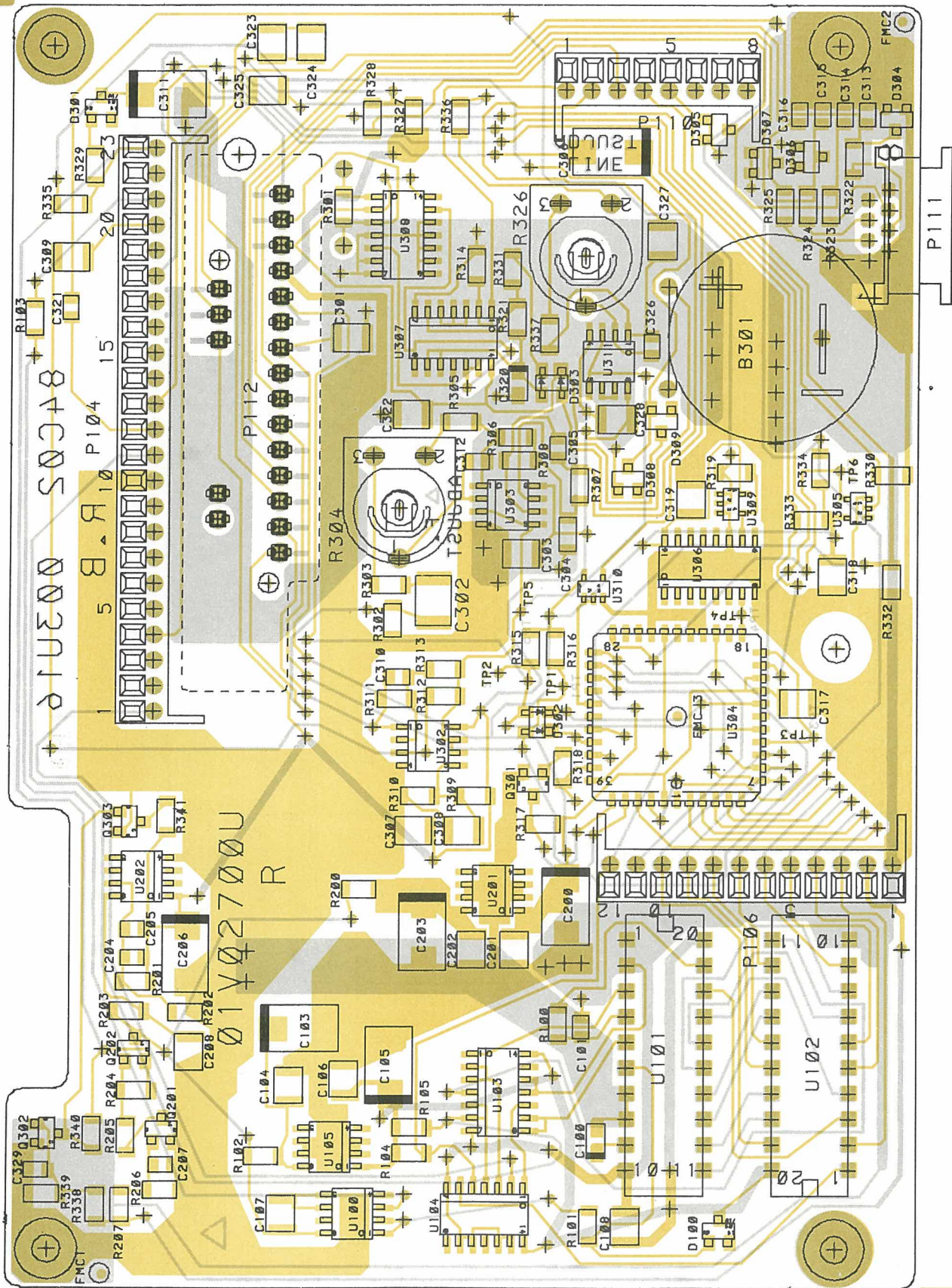
Operating: -25°C to +60°C

Mechanical dimensions

89.5 x 127.0 mm

Weight

61 g

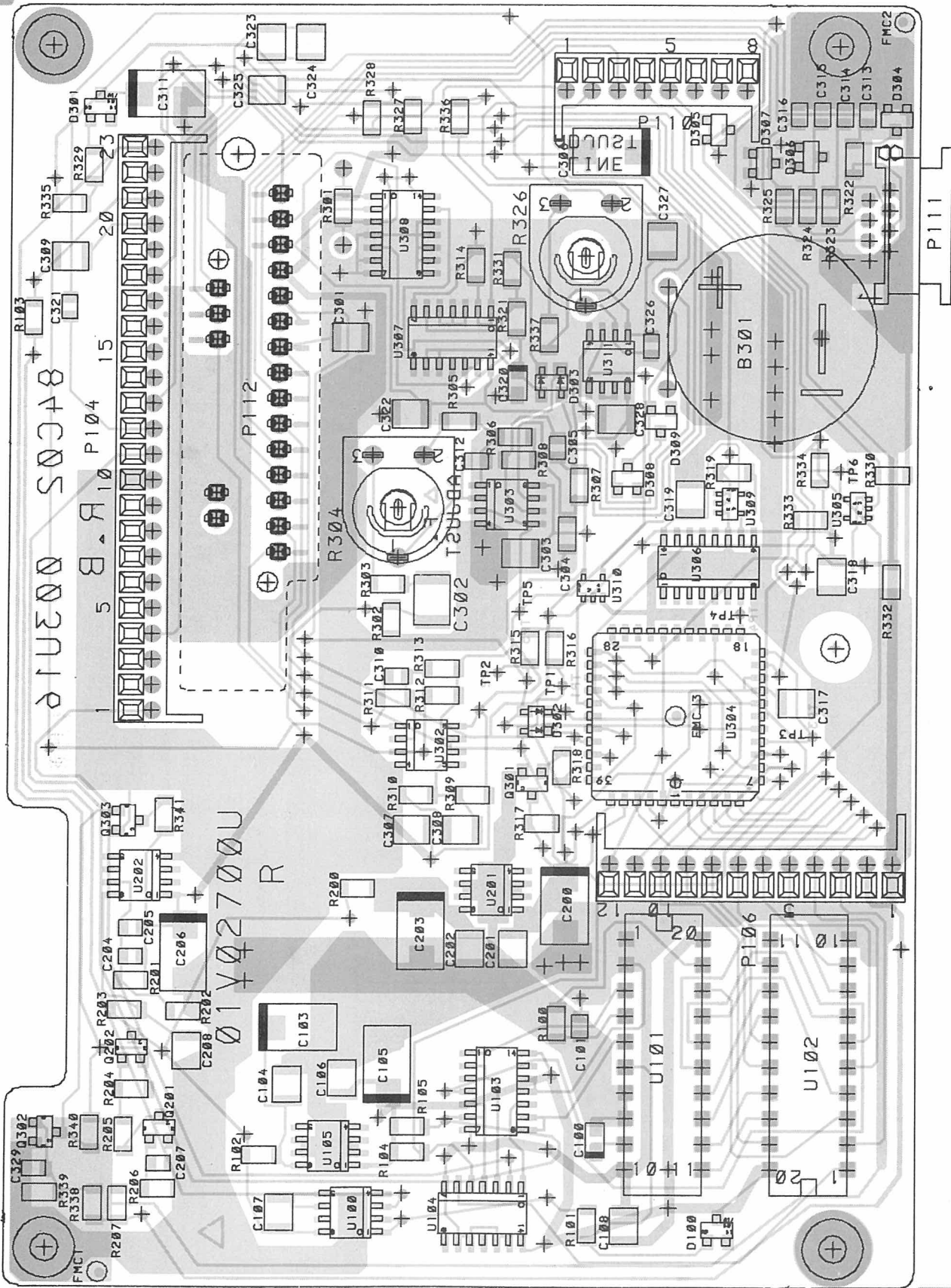


ENCRYPTION BOARD EC6001/EC6002
COMPONENT LAYOUT

D405.552/3

REV.B

DOC. ISSUE 08.20.90

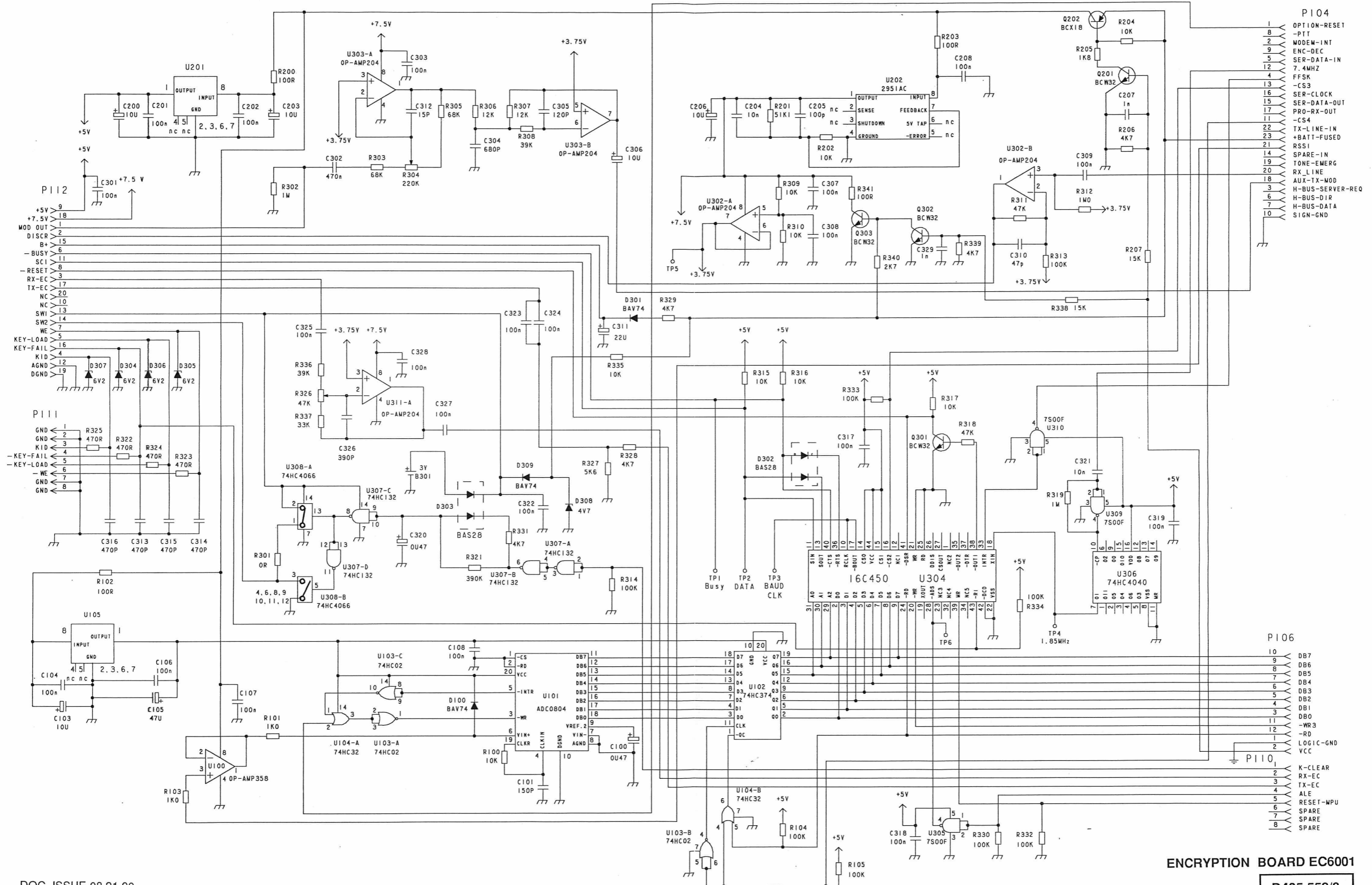


ENCRYPTION BOARD EC6001/EC6002
COMPONENT LAYOUT

D405.552/3

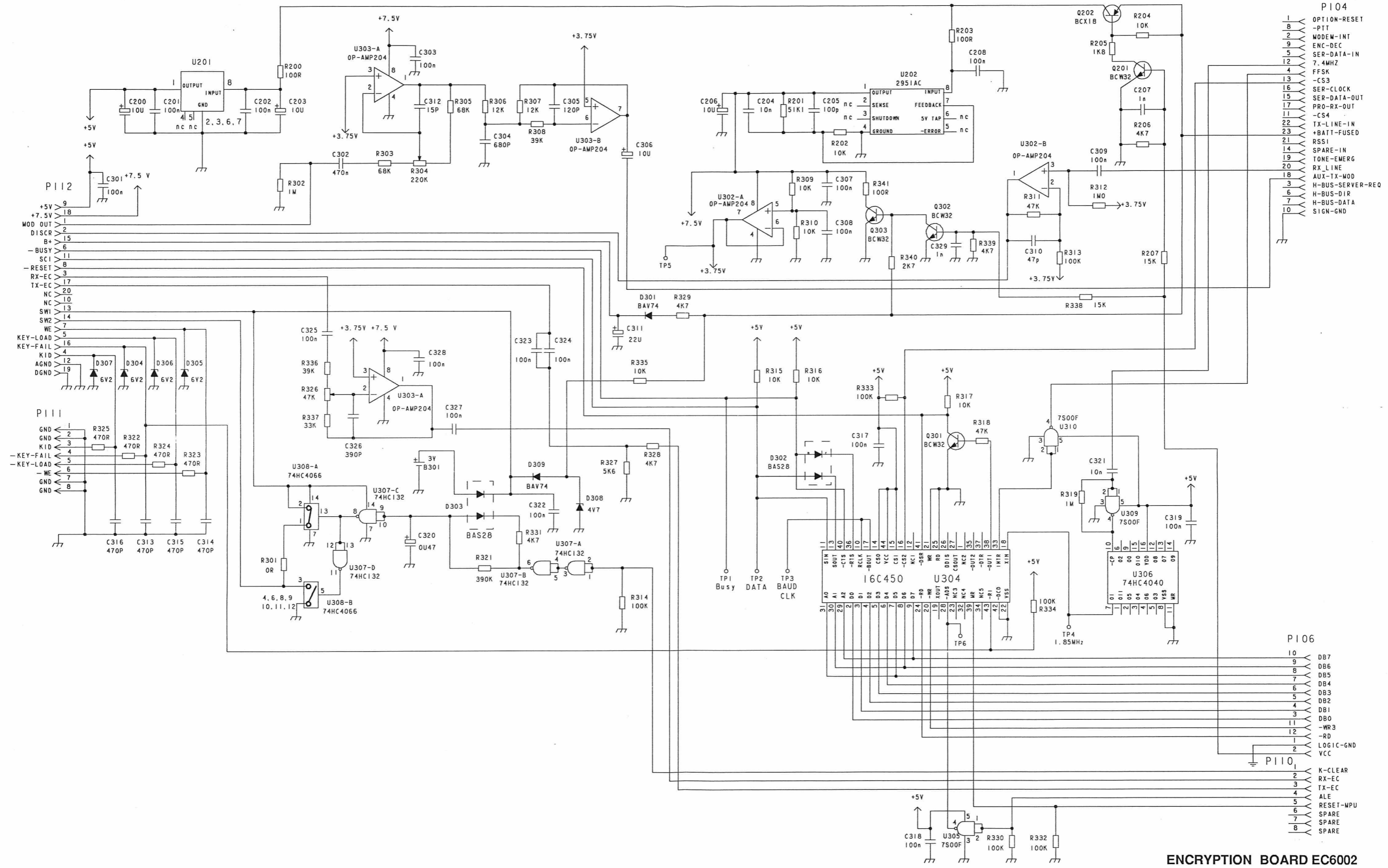
REV.B

DOC. ISSUE 08.20.90



ENCRYPTION BOARD EC6001

D405.553/3



PARTS LIST FOR ENCRYPTION BOARD EC6001 : 0102700U11 BD REV.B

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
COMPONENTS REVISED SINCE LAST EDITION ARE MARKED *							
C100	2311049A35	CAP,TA,SOL 0U47, 25V	1	D309	J707459P12	DIO,SI,ZENR 8AV 74	1
C101	2113740A59	CAP,CER,NPO 150P, 5%	1	P104	A700041P72	CONN,PWB,FEM 23-CKT	1
C103	2311049A19	CAP,TA,SOL 10U, 25V	1	P106	A700041P61	CONN,PWB,FEM 12-CKT	1
C104	2113741C17	CAP,CER,CL2 100N, 5%	1	P110	A700041P57	CONN,PWB,FEM 08-CKT	1
C105	2311049A23	CAP,TA,SOL 47U, 10V	1	P111	J710038P8	CONN,PWB,FEM 08-CKT	1
C106	2113741C17	CAP,CER,CL2 100N, 5%	1	P112	J707182P1	SOC,PC,MINAT 75060 20 PINS	1
C107	2113741C17	CAP,CER,CL2 100N, 5%	1	Q201	J707386P1	TSTR,NPN,SI BCW 32	1
C108	2113741C17	CAP,CER,CL2 100N, 5%	1	Q202	J707432P1	TSTR,NPN,SI BCX 18	1
C200	2311049A19	CAP,TA,SOL 10U, 25V	1	Q301	J707386P1	TSTR,NPN,SI BCW 32	1
C201	2113741C17	CAP,CER,CL2 100N, 5%	1	Q302	J707386P1	TSTR,NPN,SI BCW 32	1
C202	2113741C17	CAP,CER,CL2 100N, 5%	1	Q303	J707386P1	TSTR,NPN,SI BCW 32	1
C203	2311049A19	CAP,TA,SOL 10U, 25V	1	R100	0611077A98	RES,MFLM,1/8W 10K, 5%	1
C204	2113741A45	CAP,CER,CL2 10N, 5%	1	R101	0611077A74	RES,MFLM,1/8W 1K0, 5%	1
C205	2113740A55	CAP,CER,NPO 100P, 5%	1	R102	0611077A50	RES,MFLM,1/8W 100R, 5%	1
C206	2311049A19	CAP,TA,SOL 10U, 25V	1	R103	0611077A74	RES,MFLM,1/8W 1K0, 5%	1
C207	2113741M21	CAP,CER,CL2 1N0, 10%	1	R104	0611077B23	RES,MFLM,1/8W 100K, 5%	1
C208	2113741C17	CAP,CER,CL2 100N, 5%	1	R105	0611077B23	RES,MFLM,1/8W 100K, 5%	1
C301	2113741C17	CAP,CER,CL2 100N, 5%	1	R200	0611077A50	RES,MFLM,1/8W 100R, 5%	1
C302	2113743D03	CAP,PYES 470N, 10%	1	R201	0611077G60	RES,MFLM,1/8W 51K1, 1%	1
C303	2113741C17	CAP,CER,CL2 100N, 5%	1	R202	0611077F91	RES,MFLM,1/8W 10K, 1%	1
C304	2113740B69	CAP,CER,NPO 680P, 5%	1	R203	0611077A50	RES,MFLM,1/8W 100R, 5%	1
C305	2113740A57	CAP,CER,NPO 120P, 5%	1	R204	0611077A98	RES,MFLM,1/8W 10K, 5%	1
C306	2311049A19	CAP,TA,SOL 10U, 25V	1	R205	0611077A80	RES,MFLM,1/8W 1K8, 5%	1
C307	2113741C17	CAP,CER,CL2 100N, 5%	1	R206	0611077A90	RES,MFLM,1/8W 4K7, 5%	1
C308	2113741C17	CAP,CER,CL2 100N, 5%	1	R207	0611077B03	RES,MFLM,1/8W 15K, 5%	1
C309	2113741C17	CAP,CER,CL2 100N, 5%	1	R301	0611077A01	RES,MFLM,1/8W OR JUMPER	1
C310	2113740A46	CAP,CER,NPO 47P, 5%	1	R302	0611077B47	RES,MFLM,1/8W 1M0, 10%	1
C311	2311049A21	CAP,TA,SOL 22U, 20V	1	R303	0611077B19	RES,MFLM,1/8W 68K, 5%	1
C312	2113740A33	CAP,CER,NPO 15P, 5%	1	R304	J708394P32	RES,VAR,CERM 220K, 20%	1
C313	2113740A71	CAP,CER,NPO 470P, 5%	1	R305	0611077B19	RES,MFLM,1/8W 68K, 5%	1
C314	2113740A71	CAP,CER,NPO 470P, 5%	1	R306	0611077B01	RES,MFLM,1/8W 12K, 5%	1
C315	2113740A71	CAP,CER,NPO 470P, 5%	1	R307	0611077B01	RES,MFLM,1/8W 12K, 5%	1
C316	2113740A71	CAP,CER,NPO 470P, 5%	1	R308	0611077B13	RES,MFLM,1/8W 39K, 5%	1
C317	2113741C17	CAP,CER,CL2 100N, 5%	1	R309	0611077F91	RES,MFLM,1/8W 10K, 1%	1
C318	2113741C17	CAP,CER,CL2 100N, 5%	1	R310	0611077F91	RES,MFLM,1/8W 10K, 1%	1
C319	2113741C17	CAP,CER,CL2 100N, 5%	1	R311	0611077B15	RES,MFLM,1/8W 47K, 5%	1
C320	2311049A35	CAP,TA,SOL 0U47, 25V	1	R312	0611077B47	RES,MFLM,1/8W 1M0, 10%	1
C321	2113741A45	CAP,CER,CL2 10N, 5%	1	R313	0611077B23	RES,MFLM,1/8W 100K, 5%	1
C322	2113741C17	CAP,CER,CL2 100N, 5%	1	R314	0611077B23	RES,MFLM,1/8W 100K, 5%	1
C323	2113741C17	CAP,CER,CL2 100N, 5%	1	R315	0611077A98	RES,MFLM,1/8W 10K, 5%	1
C324	2113741C17	CAP,CER,CL2 100N, 5%	1	R316	0611077A98	RES,MFLM,1/8W 10K, 5%	1
C325	2113741C17	CAP,CER,CL2 100N, 5%	1	R317	0611077A98	RES,MFLM,1/8W 10K, 5%	1
C326	2113740A69	CAP,CER,NPO 390P, 5%	1	R318	0611077B15	RES,MFLM,1/8W 47K, 5%	1
C327	2113741C17	CAP,CER,CL2 100N, 5%	1	R319	0611077B47	RES,MFLM,1/8W 1M0, 10%	1
C328	2113741C17	CAP,CER,CL2 100N, 5%	1	R321	0611077B37	RES,MFLM,1/8W 390K, 5%	1
C329	2113741M21	CAP,CER,CL2 1N0, 10%	1	R322	0611077A66	RES,MFLM,1/8W 470R, 5%	1
D100	J707390P1	DIO,SI,SIG 8AV 74	1	R323	0611077A66	RES,MFLM,1/8W 470R, 5%	1
D301	J707390P1	DIO,SI,SIG 8AV 74	1	R324	0611077A66	RES,MFLM,1/8W 470R, 5%	1
D302	J711154P1	DIO,SI,SIG 8AS 28	1	R325	0611077A66	RES,MFLM,1/8W 470R, 5%	1
D303	J711154P1	DIO,SI,SIG 8AS 28	1	R326	J708394P30	RES,VAR,CERM 47K, 20%	1
D304	J707459P12	DIO,SI,ZENR 6V2,5%,0.2W	1	R327	0611077A92	RES,MFLM,1/8W 5K6, 5%	1
D305	J707459P12	DIO,SI,ZENR 6V2,5%,0.2W	1	R328	0611077A90	RES,MFLM,1/8W 4K7, 5%	1
D306	J707459P12	DIO,SI,ZENR 6V2,5%,0.2W	1	R329	0611077A90	RES,MFLM,1/8W 4K7, 5%	1
D307	J707459P12	DIO,SI,ZENR 6V2,5%,0.2W	1	R330	0611077B23	RES,MFLM,1/8W 100K, 5%	1
D308	J707459P1	DIO,SI,ZENR 4V7,5%,0.2W	1	R331	0611077A90	RES,MFLM,1/8W 4K7, 5%	1
				R332	0611077B23	RES,MFLM,1/8W 100K, 5%	1
				R333	0611077B23	RES,MFLM,1/8W 100K, 5%	1
				R334	0611077B23	RES,MFLM,1/8W 100K, 5%	1
				R335	0611077A98	RES,MFLM,1/8W 10K, 5%	1

PARTS LIST FOR ENCRYPTION BOARD EC6001 : 0102700U11 BD REV.A

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
R336	0611077B13	RES,MFLM,1/8W 39K , 5% *	1				
R337	0611077B11	RES,MFLM,1/8W 33K , 5% *	1				
R338	0611077B03	RES,MFLM,1/8W 15K , 5% *	1				
R339	0611077A90	RES,MFLM,1/8W 4K7 , 5% *	1				
R340	0611077A84	RES,MFLM,1/8W 2K7 , 5% *	1				
R341	0611077A50	RES,MFLM,1/8W 100R , 5% *	1				
U100	J708165P4	IC,LIN,OP-AMP 358	1				
U101	J709482P2	IC,CONV-A/D ADC 0804	1				
U102	J707880P2	IC,DIG,FF-D 74HC374	1				
U103	J708786P3	IC,DIG,GATE 74HC02	1				
U104	J708786P4	IC,DIG,GATE 74HC32	1				
U105	5182276R13	IC,LIN,REG 78L05	1				
U201	5182276R13	IC,LIN,REG 78L05	1				
U202	J710632P1	IC,LIN,VR,VAR 2951AC	1				
U302	J707859P1	IC,LIN,OP-AMP 204	1				
U303	J707859P1	IC,LIN,OP-AMP 204	1				
U304	5108000U10	IC,INTFC 16C450	1				
U305	5105461G61	IC,DIG,GATE 7S00F	1				
U306	J708785P4	IC,DIG,CNTR 74HC4040	1				
U307	J708786P1	IC,DIG,GATE 74HC132	1				
U308	J710893P3	IC,DIG,MUX 74HC4066	1				
U309	5105461G61	IC,DIG,GATE 7S00F	1				
U310	5105461G61	IC,DIG,GATE 7S00F	1				
U311	J707859P1	IC,LIN,OP-AMP 204	1				
	8402003U16B	BD,PW,SMD,DS EC 6001 *	1				
	4302023U05	NON REFERENCED ITEM: BUSHING	4				

PARTS LIST FOR ENCRYPTION BOARD EC6002 : 0102700U42 BD REV.B

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENTS REVISED SINCE LAST EDITION ARE MARKED *					
C200	2311049A19	CAP,TA,SOL 10U , 25V	1	Q303	J707386P1	TSTR,NPN,SI BCW 32	1
C201	2113741C17	CAP,CER,CL2 100N , 5%	1	R200	0611077A50	RES,MFLM,1/8W 100R , 5%	1
C202	2113741C17	CAP,CER,CL2 100N , 5%	1	R201	0611077G60	RES,MFLM,1/8W 51K1 , 1%	1
C203	2311049A19	CAP,TA,SOL 10U , 25V	1	R202	0611077F91	RES,MFLM,1/8W 10K , 1%	1
C204	2113741A45	CAP,CER,CL2 10N , 5%	1	R203	0611077A50	RES,MFLM,1/8W 100R , 5%	1
C205	2113740A55	CAP,CER,NP0 100P , 5%	1	R204	0611077A98	RES,MFLM,1/8W 10K , 5%	1
C206	2311049A19	CAP,TA,SOL 10U , 25V	1	R205	0611077A80	RES,MFLM,1/8W 1K8 , 5%	1
C207	2113741M21	CAP,CER,CL2 1N0 , 10%	1	R206	0611077A90	RES,MFLM,1/8W 4K7 , 5%	1
C208	2113741C17	CAP,CER,CL2 100N , 5%	1	R207	0611077B03	RES,MFLM,1/8W 15K , 5%	1
C301	2113741C17	CAP,CER,CL2 100N , 5%	1	R301	0611077A01	RES,MFLM,1/8W OR JUMPER	1
C302	2113743D03	CAP,CER,CL2 470N , *	1	R302	0611077B47	RES,MFLM,1/8W 1M0 , 10%	1
C303	2113741C17	CAP,CER,CL2 100N , 5%	1	R303	0611077B19	RES,MFLM,1/8W 68K , 5%	1
C304	2113740B69	CAP,CER,NP0 680P , 5%	1	R304	J708394P32	RES,VAR,CERM 220K , 20%	1
C305	2113740A57	CAP,CER,NP0 120P , 5%	1	R305	0611077B19	RES,MFLM,1/8W 68K , 5%	1
C306	2311049A19	CAP,TA,SOL 10U , 25V	1	R306	0611077B01	RES,MFLM,1/8W 12K , 5%	1
C307	2113741C17	CAP,CER,CL2 100N , 5%	1	R307	0611077B01	RES,MFLM,1/8W 12K , 5%	1
C308	2113741C17	CAP,CER,CL2 100N , 5%	1	R308	0611077B13	RES,MFLM,1/8W 39K , 5%	1
C309	2113741C17	CAP,CER,CL2 100N , 5%	1	R309	0611077F91	RES,MFLM,1/8W 10K , 1%	1
C310	2113740A46	CAP,CER,NP0 47P , 5%	1	R310	0611077F91	RES,MFLM,1/8W 10K , 1%	1
C311	2311049A21	CAP,TA,SOL 22U , 20V	1	R311	0611077B15	RES,MFLM,1/8W 47K , 5%	1
C312	2113740A33	CAP,CER,NP0 15P , 5%	1	R312	0611077B47	RES,MFLM,1/8W 1M0 , 10%	1
C313	2113740A71	CAP,CER,NP0 470P , 5%	1	R313	0611077B23	RES,MFLM,1/8W 100K , 5%	1
C314	2113740A71	CAP,CER,NP0 470P , 5%	1	R314	0611077B23	RES,MFLM,1/8W 100K , 5%	1
C315	2113740A71	CAP,CER,NP0 470P , 5%	1	R315	0611077A98	RES,MFLM,1/8W 10K , 5%	1
C316	2113740A71	CAP,CER,NP0 470P , 5%	1	R316	0611077A98	RES,MFLM,1/8W 10K , 5%	1
C317	2113741C17	CAP,CER,CL2 100N , 5%	1	R317	0611077A98	RES,MFLM,1/8W 10K , 5%	1
C318	2113741C17	CAP,CER,CL2 100N , 5%	1	R318	0611077B15	RES,MFLM,1/8W 47K , 5%	1
C319	2113741C17	CAP,CER,CL2 100N , 5%	1	R319	0611077B47	RES,MFLM,1/8W 1M0 , 10%	1
C320	2311049A35	CAP,TA,SOL 0U47, 25V	1	R321	0611077B37	RES,MFLM,1/8W 390K , 5%	1
C321	2113741A45	CAP,CER,CL2 10N , 5%	1	R322	0611077A66	RES,MFLM,1/8W 470R , 5%	1
C322	2113741C17	CAP,CER,CL2 100N , 5%	1	R323	0611077A66	RES,MFLM,1/8W 470R , 5%	1
C323	2113741C17	CAP,CER,CL2 100N , 5%	1	R324	0611077A66	RES,MFLM,1/8W 470R , 5%	1
C324	2113741C17	CAP,CER,CL2 100N , 5%	1	R325	0611077A66	RES,MFLM,1/8W 470R , 5%	1
C325	2113741C17	CAP,CER,CL2 100N , 5% *	1	R326	J708394P30	RES,VAR,CERM 47K , 20%	1
C326	2113740A69	CAP,CER,NP0 390P , 5% *	1	R327	0611077A92	RES,MFLM,1/8W 5K6 , 5%	1
C327	2113741C17	CAP,CER,CL2 100N , 5% *	1	R328	0611077A90	RES,MFLM,1/8W 4K7 , 5%	1
C328	2113741C17	CAP,CER,CL2 100N , 5% *	1	R329	0611077A90	RES,MFLM,1/8W 4K7 , 5%	1
C329	2113741M21	CAP,CER,CL2 1N0 , 10% *	1	R330	0611077B23	RES,MFLM,1/8W 100K , 5%	1
D301	J707390P1	DIO,SI,SIG 8AV 74	1	R331	0611077A90	RES,MFLM,1/8W 4K7 , 5%	1
D302	J711154P1	DIO,SI,SIG 8AS 28	1	R332	0611077B23	RES,MFLM,1/8W 100K , 5%	1
D303	J711154P1	DIO,SI,SIG 8AS 28	1	R333	0611077B23	RES,MFLM,1/8W 100K , 5%	1
D304	J707459P12	DIO,SI,ZENR 6V2,5%,0.2W	1	R334	0611077B23	RES,MFLM,1/8W 100K , 5%	1
D305	J707459P12	DIO,SI,ZENR 6V2,5%,0.2W	1	R335	0611077A98	RES,MFLM,1/8W 10K , 5% *	1
D306	J707459P12	DIO,SI,ZENR 6V2,5%,0.2W	1	R336	0611077B13	RES,MFLM,1/8W 39K , 5% *	1
D307	J707459P12	DIO,SI,ZENR 6V2,5%,0.2W	1	R337	0611077B11	RES,MFLM,1/8W 33K , 5% *	1
D308	J707459P1	DIO,SI,ZENR 4V7,5%,0.2W *	1	R338	0611077B03	RES,MFLM,1/8W 15K , 5% *	1
D309	J707459P12	DIO,SI,ZENR 8AV 74 *	1	R339	0611077A90	RES,MFLM,1/8W 4K7 , 5% *	1
P104	A700041P72	CONN,PWB,FEM 23-CKT	1	R340	0611077A84	RES,MFLM,1/8W 2K7 , 5% *	1
P106	A700041P61	CONN,PWB,FEM 12-CKT	1	R341	0611077A50	RES,MFLM,1/8W 100R , 5% *	1
P110	A700041P57	CONN,PWB,FEM 08-CKT	1	U201	5182276R13	IC,LIN,REG 78L05	1
P111	J710038P8	CONN,PWB,FEM 08-CKT	1	U202	J710632P1	IC,LIN,VR,VAR 2951AC	1
P112	J707182P1	SOC,PC,MINAT 75060 20 PINS	1	U302	J707859P1	IC,LIN,OP-AMP 204	1
Q201	J707386P1	TSTR,NPN,SI BCW 32	1	U303	J707859P1	IC,LIN,OP-AMP 204	1
Q202	J707432P1	TSTR,PMP,SI BCX 18	1	U304	5108000U10	IC,INTFC 16C450	1
Q301	J707386P1	TSTR,NPN,SI BCW 32	1	U305	5105461G61	IC,DIG,GATE 7S00F	1
Q302	J707386P1	TSTR,NPN,SI BCW 32 *	1	U306	J708785P4	IC,DIG,CNTR 74HC4040	1
				U307	J708786P1	IC,DIG,GATE 74HC132	1
				U308	J710893P3	IC,DIG,MUX 74HC4066	1
				U309	5105461G61	IC,DIG,GATE 7S00F	1

PARTS LIST FOR ENCRYPTION BOARD EC6002 : 0102700U42 BD REV.B

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
U310	5105461G61	IC,DIG,GATE 7S00F	1				
U311	J707859P1	IC,LIN,OP-AMP 204	1				
	8402003U16B	BD,PW,SMD,DS EC 6001 *	1				
	4302023U05	NON REFERENCED ITEM: BUSHING	4				





**STORNOPHONE 6000
MAINTENANCE MANUAL
VOLUME V**

SEPTEMBER 1990

PUBLICATION NO: 68P02046U58-0

STORNOPHONE 6000
MAINTENANCE MANUAL
VOLUME V

OTHER MAINTENANCE MANUALS:
VOLUME I II III IV
AND ADJUSTMENT AND SOFTWARE

1

2

3

4

CONTROL BOX

5

TONE OPTIONS

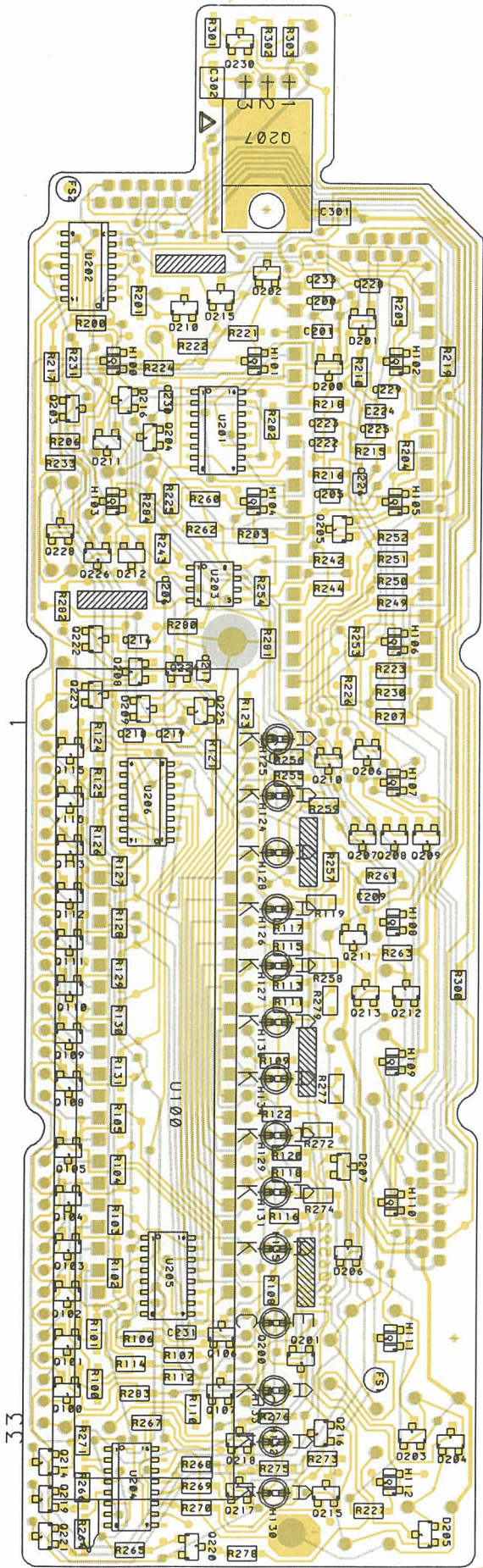
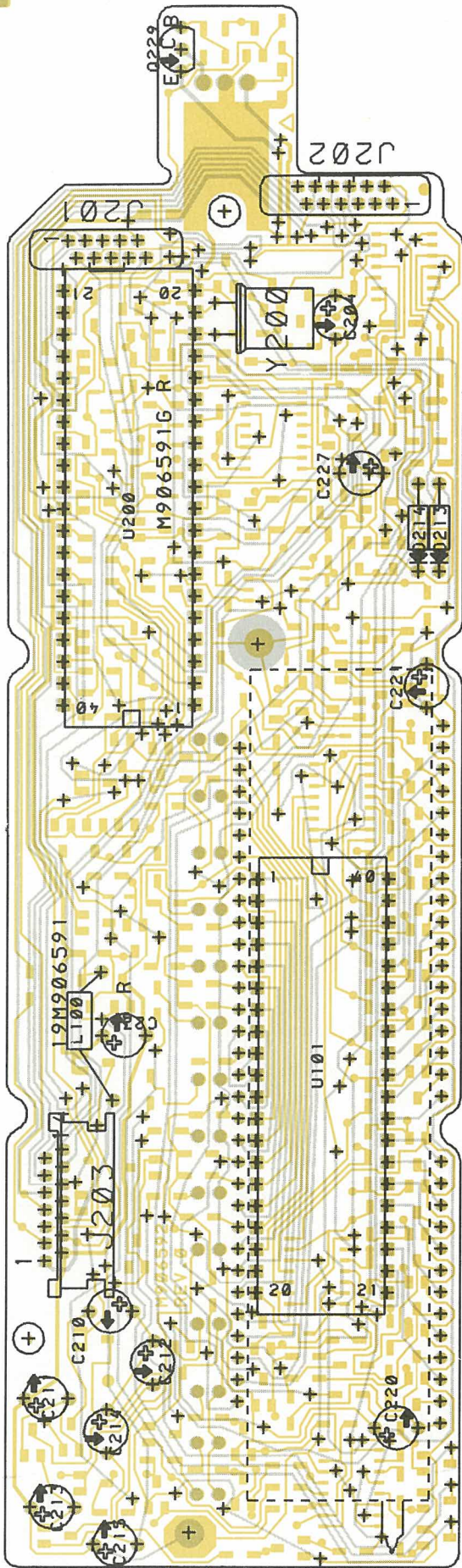
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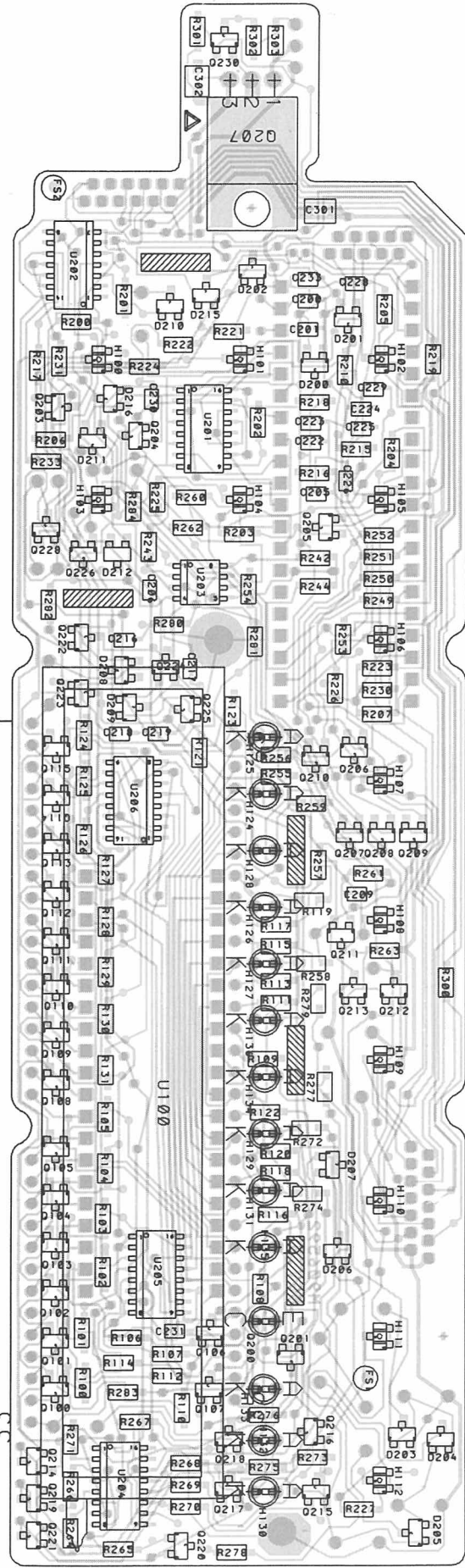
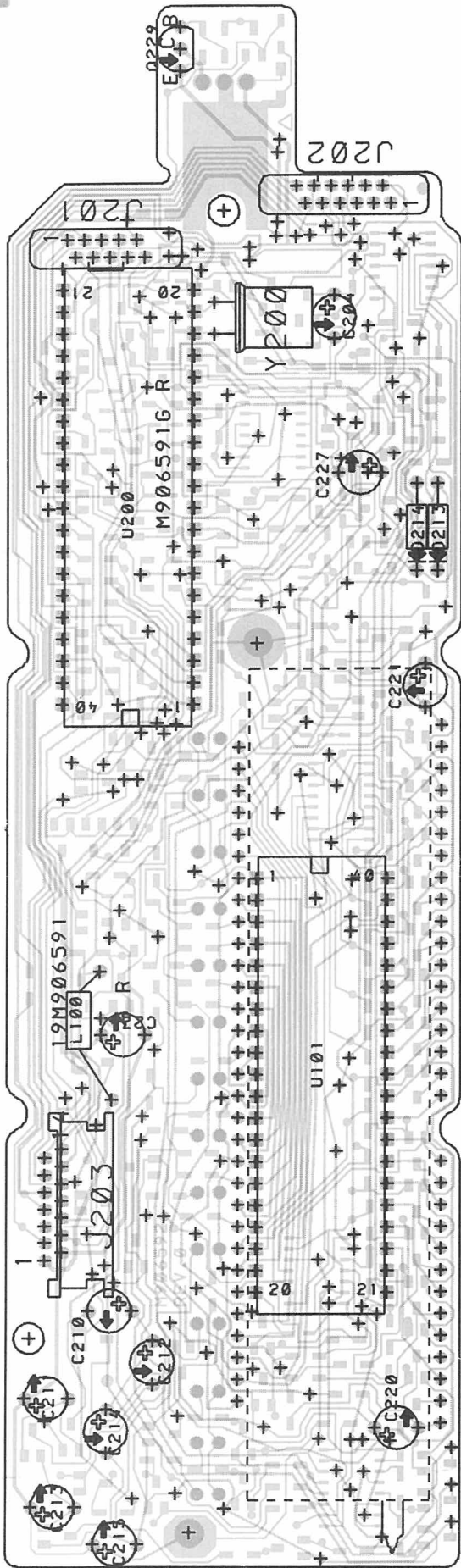


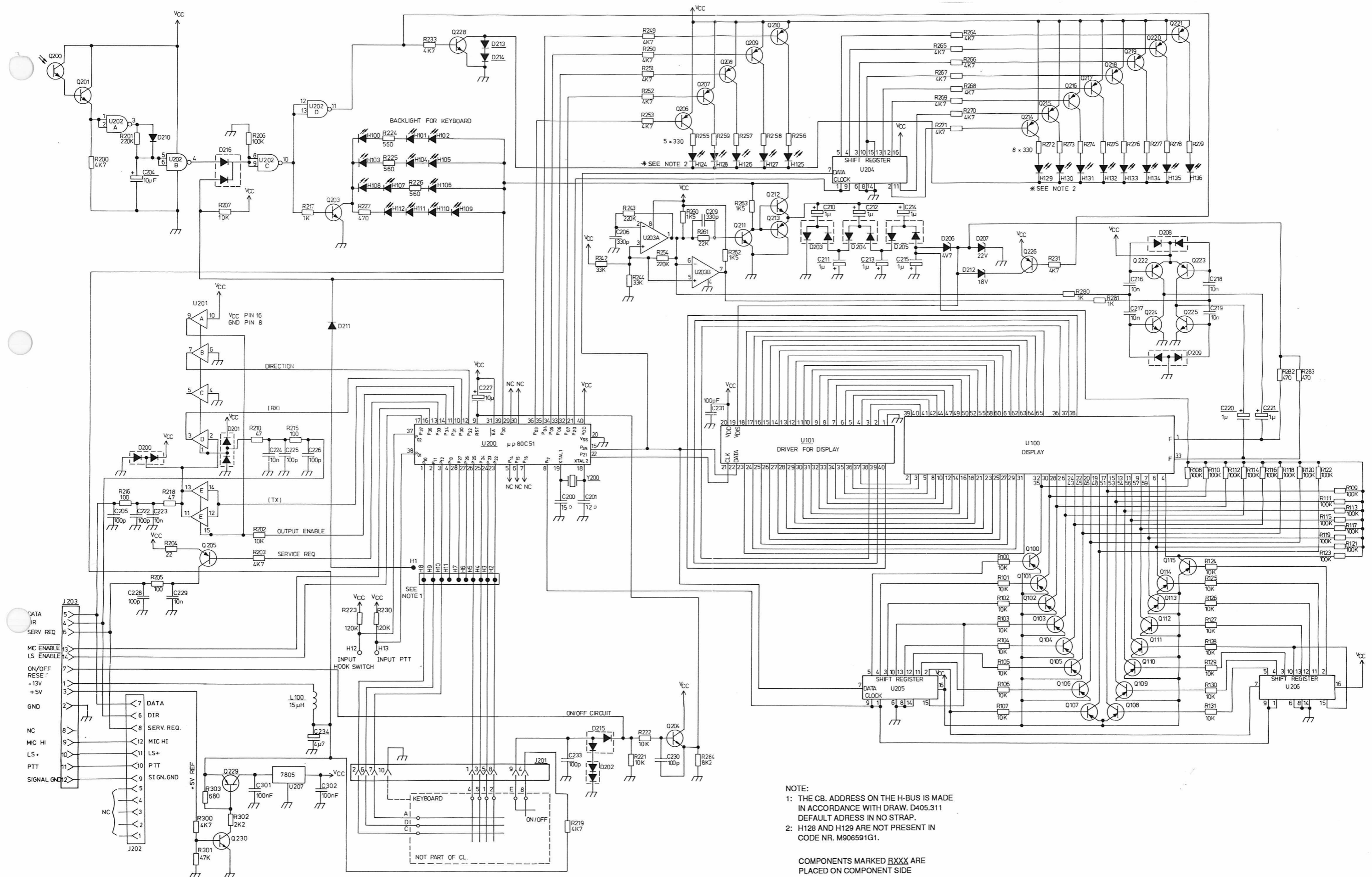
CONTROL LOGIC BOARD CL6011
COMPONENT LAYOUT

D405.309/2

COMPONENT LAYOUT

DOC. ISSUE 08.20.90





NOTE:
 1: THE CB. ADDRESS ON THE H-BUS IS MADE IN ACCORDANCE WITH DRAW. D405.311 DEFAULT ADDRESS IN NO STRAP.
 2: H128 AND H129 ARE NOT PRESENT IN CODE NR. M906591G1.

COMPONENTS MARKED BXXX ARE PLACED ON COMPONENT SIDE

CONTROL LOGIC BOARD CL 6011

CODE NO. M906559G1 REV.A D405.308/3

PARTS LIST FOR CONTROL LOGIC BOARD CL6011 : M906591G1 BD REV.1/A

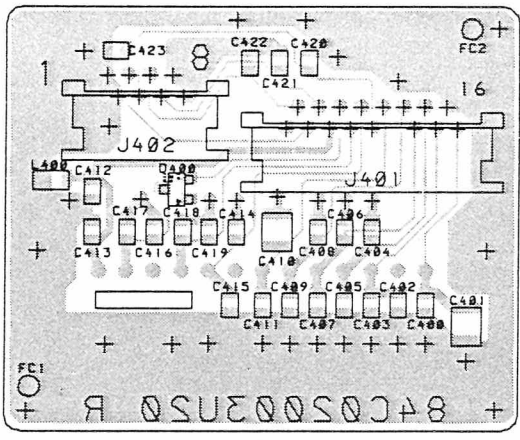
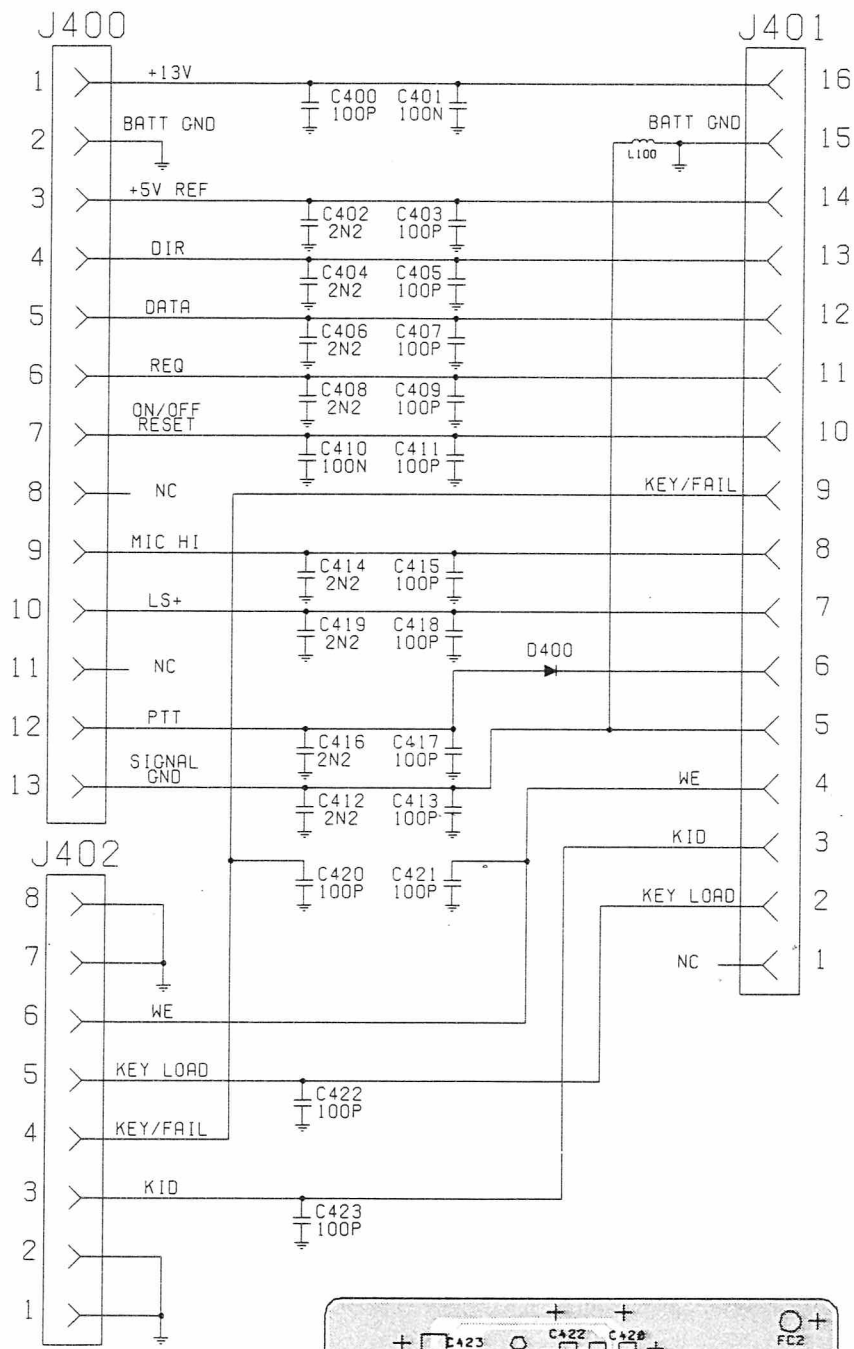
Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENT REVISED SINCE LAST EDITION ARE MARKED *		H107	J708405P1	DIO,OPTO GN, LG S260 *	1
				H108	J708405P1	DIO,OPTO GN, LG S260	1
				H109	J708405P1	DIO,OPTO GN, LG S260	1
C201	2113740A31	CAP, CER, NPO 12p , 5%	1	H110	J708405P1	DIO,OPTO GN, LG S260	1
C200	2113740A33	CAP, CER, NPO 15p , 5%	1	H111	J708405P1	DIO,OPTO GN, LG S260	1
C204	2313749C40	CAP, TA, SOL 10u , 20V	1	H112	J708405P1	DIO,OPTO GN, LG S260	1
C205	2113740A55	CAP, CER, NPO 100p , 5%	1	H124	J708000P7	DIO,OPTO GN, LG3130-L	1
C206	2113741A09	CAP, CER, CL2 330p , 5%	1	H125	J708000P7	DIO,OPTO GN, LG3130-L	1
C209	2113741A09	CAP, CER, CL2 330p , 5%	1	H126	J708000P6	DIO,OPTO YW, LY3140-L	1
C210	2313749D52	CAP, TA, SOL 1u , 35V	1	H127	J708000P6	DIO,OPTO YW, LY3140-L	1
C211	2313749D52	CAP, TA, SOL 1u , 35V	1	H130	J708000P7	DIO,OPTO GN, LG3130-L	1
C212	2313749D52	CAP, TA, SOL 1u , 35V	1	H131	J708000P7	DIO,OPTO GN, LG3130-L	1
C213	2313749D52	CAP, TA, SOL 1u , 35V	1	H132	J708000P7	DIO,OPTO GN, LG3130-L	1
C214	2313749D52	CAP, TA, SOL 1u , 35V	1	H133	J708000P7	DIO,OPTO GN, LG3130-L	1
C215	2313749D52	CAP, TA, SOL 1u , 35V	1	H134	J708000P5	DIO,OPTO RD, LS3140-L	1
C216	2113741M45	CAP, CER, CL2 10n , 10%	1	H135	J708000P6	DIO,OPTO YW, LY3140-L	1
C217	2113741M45	CAP, CER, CL2 10n , 10%	1	H136	J708000P7	DIO,OPTO GN, LG3130-L	1
C218	2113741M45	CAP, CER, CL2 10n , 10%	1	J201	J710038P40	CONN, PWB, FEM 10-CKT	1
C219	2113741M45	CAP, CER, CL2 10n , 10%	1	J202	J710038P42	CONN, PWB, FEM 12-CKT	1
C220	2313749D52	CAP, TA, SOL 1u , 35V	1	J203	J710038P14	CONN, PWB, FEM 14-CKT	1
C221	2313749D52	CAP, TA, SOL 1u , 35V	1	L100	A700000P25	CHO 15MH	1
C222	2113740A55	CAP, CER, NPO 100p , 5%	1	Q100	J707387P2	TSTR, PNP, SI BCW 70	1
C223	2113741M45	CAP, CER, CL2 10n , 10%	1	Q101	J707387P2	TSTR, PNP, SI BCW 70	1
C224	2113741M45	CAP, CER, CL2 10n , 10%	1	Q102	J707387P2	TSTR, PNP, SI BCW 70	1
C225	2113740A55	CAP, CER, NPO 100p , 5%	1	Q103	J707387P2	TSTR, PNP, SI BCW 70	1
C226	2113740A55	CAP, CER, NPO 100p , 5%	1	Q104	J707387P2	TSTR, PNP, SI BCW 70	1
C227	2313749C40	CAP, TA, SOL 10u , 20V	1	Q105	J707387P2	TSTR, PNP, SI BCW 70	1
C228	2113740A55	CAP, CER, NPO 100p , 5%	1	Q106	J707387P2	TSTR, PNP, SI BCW 70	1
C229	2113741M45	CAP, CER, CL2 10n , 10%	1	Q107	J707387P2	TSTR, PNP, SI BCW 70	1
C230	2113740A55	CAP, CER, NPO 100p , 5%	1	Q108	J707387P2	TSTR, PNP, SI BCW 70	1
C231	2113740A55	CAP, CER, NPO 100p , 5%	1	Q109	J707387P2	TSTR, PNP, SI BCW 70	1
C233	2113740A55	CAP, CER, NPO 100p , 5%	1	Q110	J707387P2	TSTR, PNP, SI BCW 70	1
C234	J707353P6	CAP, ELECT 4u7 , 25V	1	Q111	J707387P2	TSTR, PNP, SI BCW 70	1
C301	2113741C17	CAP, CER, CL2 100n , 5%	1	Q112	J707387P2	TSTR, PNP, SI BCW 70	1
C302	2113741C17	CAP, CER, CL2 100n , 5%	1	Q113	J707387P2	TSTR, PNP, SI BCW 70	1
D200	J707389P1	DIO, SI, SIG 8AV 99	1	Q114	J707387P2	TSTR, PNP, SI BCW 70	1
D201	J707389P1	DIO, SI, SIG 8AV 99	1	Q115	J707387P2	TSTR, PNP, SI BCW 70	1
D202	J707389P1	DIO, SI, SIG 8AV 99	1	Q200	J708525P1	TSTR, OPTO SFH 309	1
D203	J707389P1	DIO, SI, SIG 8AV 99	1	Q201	J707386P1	TSTR, NPN, SI BCW 32	1
D204	J707389P1	DIO, SI, SIG 8AV 99	1	Q203	J707429P1	TSTR, NPN, SI BCX 20	1
D205	J707389P1	DIO, SI, SIG 8AV 99	1	Q204	J707386P1	TSTR, NPN, SI BCW 32	1
D206	J707459P1	DIO, SI, ZENR 4V7, 5%, 0.2W	1	Q205	J707387P1	TSTR, PNP, SI BCW 30	1
D207	J707459P9	DIO, SI, ZENR 22V, 5%, 0.2W	1	Q206	J707387P1	TSTR, PNP, SI BCW 30	1
D208	J707390P1	DIO, SI, SIG 8AV 74	1	Q207	J707387P1	TSTR, PNP, SI BCW 30	1
D209	J708681P1	DIO, SI, SIG 8AV 56	1	Q208	J707387P1	TSTR, PNP, SI BCW 30	1
D210	J707389P1	DIO, SI, SIG 8AV 99	1	Q209	J707387P1	TSTR, PNP, SI BCW 30	1
D211	J707389P1	DIO, SI, SIG 8AV 99	1	Q210	J707387P1	TSTR, PNP, SI BCW 30	1
D212	J707459P10	DIO, SI, ZENR 18V, 5%, 0.2W	1	Q211	J707386P1	TSTR, NPN, SI BCW 32	1
D213	J709122P1	DIO, SI, SIG 1N4150	1	Q212	J707386P1	TSTR, NPN, SI BCW 32	1
D214	J709122P1	DIO, SI, SIG 1N4150	1	Q213	J707387P1	TSTR, PNP, SI BCW 30	1
D215	J708681P1	DIO, SI, SIG 8AV 56	1	Q214	J707387P1	TSTR, PNP, SI BCW 30	1
D216	J707390P1	DIO, SI, SIG 8AV 74	1	Q215	J707387P1	TSTR, PNP, SI BCW 30	1
H100	J708405P1	DIO, OPTO GN, LG S260	1	Q216	J707387P1	TSTR, PNP, SI BCW 30	1
H101	J708405P1	DIO, OPTO GN, LG S260	1	Q217	J707387P1	TSTR, PNP, SI BCW 30	1
H102	J708405P1	DIO, OPTO GN, LG S260	1	Q218	J707387P1	TSTR, PNP, SI BCW 30	1
H103	J708405P1	DIO, OPTO GN, LG S260	1	Q219	J707387P1	TSTR, PNP, SI BCW 30	1
H104	J708405P1	DIO, OPTO GN, LG S260	1	Q220	J707387P1	TSTR, PNP, SI BCW 30	1
H105	J708405P1	DIO, OPTO GN, LG S260	1	Q221	J707387P1	TSTR, PNP, SI BCW 30	1
H106	J708405P1	DIO, OPTO GN, LG S260	1	Q222	J707387P1	TSTR, PNP, SI BCW 30	1

PARTS LIST FOR CONTROL LOGIC BOARD CL6011 : M906591G1 BD REV.1/A

Pos	Code No.	Description	Qt.	Pos	Code No.	Description	Qt.
Q223	J707387P1	TSTR,NPN,SI BCW 30	1	R227	0611077A66	RES,MFLM,1/8W 470R , 5%	1
Q224	J707386P1	TSTR,NPN,SI BCW 32	1	R230	0611077B25	RES,MFLM,1/8W 120k , 5%	1
Q225	J707386P1	TSTR,NPN,SI BCW 32	1	R231	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
Q226	J707387P1	TSTR,NPN,SI BCW 30	1	R233	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
Q228	J707429P1	TSTR,NPN,SI BCX 20	1	R242	0611077B11	RES,MFLM,1/8W 33k , 5%	1
Q229	J707435P1	TSTR,PNP,SI BC 369	1	R243	0611077B31	RES,MFLM,1/8W 220k , 5%	1
Q230	J707386P1	TSTR,NPN,SI BCW 32	1	R244	0611077B11	RES,MFLM,1/8W 33k , 5%	1
R100	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R249	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R101	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R250	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R102	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R251	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R103	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R252	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R104	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R253	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R105	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R254	0611077B31	RES,MFLM,1/8W 220k , 5%	1
R106	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R255	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R107	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R256	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R108	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R257	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R109	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R258	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R110	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R259	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R111	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R260	0611077A78	RES,MFLM,1/8W 1k5 , 5%	1
R112	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R261	0611077B07	RES,MFLM,1/8W 22k , 5%	1
R113	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R262	0611077A78	RES,MFLM,1/8W 1k5 , 5%	1
R114	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R263	0611077A78	RES,MFLM,1/8W 1k5 , 5%	1
R115	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R264	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R116	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R265	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R117	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R266	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R118	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R267	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R119	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R268	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R120	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R269	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R121	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R270	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R122	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R271	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R123	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R272	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R124	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R273	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R125	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R274	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R126	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R275	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R127	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R276	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R128	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R277	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R129	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R278	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R130	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R279	0611077A62	RES,MFLM,1/8W 330R , 5%	1
R131	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R280	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1
R200	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	R281	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1
R201	0611077B31	RES,MFLM,1/8W 220k , 5%	1	R282	0611077A66	RES,MFLM,1/8W 470R , 5%	1
R202	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R283	0611077A66	RES,MFLM,1/8W 470R , 5%	1
R203	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	R284	0611077A96	RES,MFLM,1/8W 8k2 , 5%	1
R204	0611077A34	RES,MFLM,1/8W 22R , 5%	1	R300	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1
R205	0611077A50	RES,MFLM,1/8W 100R , 5%	1	R301	0611077B15	RES,MFLM,1/8W 47k , 5%	1
R206	0611077B23	RES,MFLM,1/8W 100k , 5%	1	R302	0611077A82	RES,MFLM,1/8W 2k2 , 5%	1
R207	0611077A98	RES,MFLM,1/8W 10k , 5%	1	R303	0611077A70	RES,MFLM,1/8W 680R , 5%	1
R210	0611077A42	RES,MFLM,1/8W 47R , 5%	1	U100	J708896P2	DIS,FLUOR DCF165R2D	1
R215	0611077A50	RES,MFLM,1/8W 100R , 5%	1	U101	J708897P1	IC,DRV,VFD 58348	1
R216	0611077A50	RES,MFLM,1/8W 100R , 5%	1	U200	J709724P2	IC,uP,8-BIT 80C51	1
R217	0611077A74	RES,MFLM,1/8W 1k0 , 5%	1	U201	J708791P1	IC,DIG,BUFR 74HC367	1
R218	0611077A42	RES,MFLM,1/8W 47R , 5%	1	U202	J709761P1	IC,DIG,GATE 4093	1
R219	0611077A90	RES,MFLM,1/8W 4k7 , 5%	1	U203	J708503P3	IC,LIN,CMPAR LM 293	1
R221	0611077A98	RES,MFLM,1/8W 10k , 5%	1	U204	J709016P1	IC,DIG,REG 4015	1
R222	0611077A98	RES,MFLM,1/8W 10k , 5%	1	U205	J709016P1	IC,DIG,REG 4015	1
R223	0611077B25	RES,MFLM,1/8W 120k , 5%	1	U206	J709016P1	IC,DIG,REG 4015	1
R224	0611077A68	RES,MFLM,1/8W 560R , 5%	1	U207	J706032P4	IC,LIN,VR,FIX 7805	1
R225	0611077A68	RES,MFLM,1/8W 560R , 5%	1	Y200	J710158P1	CRYSTAL UNIT 11.1320MHz	1
R226	0611077A68	RES,MFLM,1/8W 560R , 5%	1		M906592P1R1	BD,PW,SMD,DS CL 6011	1

FILTER NETWORK FN6007/FN6014

- Component layout
- Electrical diagram
- Part list



FILTER NETWORK FN6014

CODE NO.0102700U15

D405.595

PARTS LIST FOR FILTER NETWORK FN6014 : 0102700U15 BD REV.B

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
C400	2113740A55	CAP,CER,NPO 100P , 5%	1				
C401	2113741C17	CAP,CER,CL2 100N , 5%	1				
C402	2113741M29	CAP,CER,CL2 2N2 , 10%	1				
C403	2113740A55	CAP,CER,NPO 100P , 5%	1				
C404	2113741M29	CAP,CER,CL2 2N2 , 10%	1				
C405	2113740A55	CAP,CER,NPO 100P , 5%	1				
C406	2113741M29	CAP,CER,CL2 2N2 , 10%	1				
C407	2113740A55	CAP,CER,NPO 100P , 5%	1				
C408	2113741M29	CAP,CER,CL2 2N2 , 10%	1				
C409	2113740A55	CAP,CER,NPO 100P , 5%	1				
C410	2113741C17	CAP,CER,CL2 100N , 5%	1				
C411	2113740A55	CAP,CER,NPO 100P , 5%	1				
C412	2113741M29	CAP,CER,CL2 2N2 , 10%	1				
C413	2113740A55	CAP,CER,NPO 100P , 5%	1				
C414	2113741M29	CAP,CER,CL2 2N2 , 10%	1				
C415	2113740A55	CAP,CER,NPO 100P , 5%	1				
C416	2113741M29	CAP,CER,CL2 2N2 , 10%	1				
C417	2113740A55	CAP,CER,NPO 100P , 5%	1				
C418	2113740A55	CAP,CER,NPO 100P , 5%	1				
C419	2113741M29	CAP,CER,CL2 2N2 , 10%	1				
C420	2113740A55	CAP,CER,NPO 100P , 5%	1				
C421	2113740A55	CAP,CER,NPO 100P , 5%	1				
C422	2113740A55	CAP,CER,NPO 100P , 5%	1				
C423	2113740A55	CAP,CER,NPO 100P , 5%	1				
D400	J707389P1	DIO,SI,SIG BAV 99	1				
J400	J706789P13	CONN,PWB,FEM 13-CKT	1				
J401	J710038P16	CONN,PWB,FEM 16-CKT	1				
J402	J710038P8	CONN,PWB,FEM 08-CKT	1				
L100	J710794P26	COIL,RF,FIX 1.20UH, 5%	1				
	8402003U20B	BOARD PW	1				







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October 1990

Re.: Updating Maintenance Manual CQM6xxx ADJUSTMENT & SOFTWARE.

Please find enclosed revised and new pages for the Maintenance Manual CQM6xxx Adjustment & Software which has now been updated.

See page 2 for a survey of these pages, and indication of where to insert them in the manual.


Please find enclosed the new pages

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10/10/2010

INSERTION OF NEW/REVISED PAGES:

ADJUSTMENT & SOFTWARE

0: Front page

1: Service mode

61.179-E2, 62.249-E1

2: Ajustment

61.186-E2, 62.203-E1

**STORNOPHONE 6000
MAINTENANCE MANUAL
ADJUSTMENT AND SOFTWARE**

OCTOBER 1990

PUBLICATION NO: 68P84836D15-D

ADJUSTMENT AND SCALING
MAINTENANCE MANUAL
SI ORIOFHUE 8009

CHAPTER 1
SERVICE MODE

SERVICE MODE

CQM6000/MC SPECTRO - EF Software

CQM6000/MC SPECTRO - EL Software

CHARLES
SERVICE MODE

SERVICE MODE

CONTROL PANEL
CONTROL PANEL

SERVICE MODE

CQM6000/MC spectro - EL SOFTWARE

1. GENERAL

This is a users guide to the service mode used in CQM6000/MC spectro, EL version.

The basic idea in this service mode is that all functions are accessed via a 3 digit function code. The three digits represent the following:

Function code:

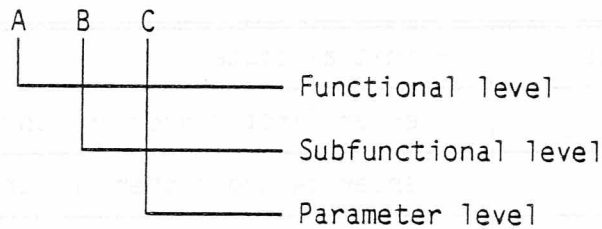


Fig. 1.1 Function code syntax.

After the function code it may be necessary to enter further data, e.g. channel number etc.

The function codes can either be entered manually by using the buttons on the control box or by simulating the key entries by an automatic test equipment.

1.1. KEY ENTRIES

In service mode the values of the keys on the control box are strictly related to their position on the control box and NOT to the values labeled on the keys. The keys have the following values:

							1	2	3	
							4	5	6	
							7	8	9	
							*	0		

Fig. 1.2 Keyboard lay-out.

All "blank" keys in the above figure are not used but may be used similar to the *-key. One exception is the on/off key.

Entry of a function code is done by entering 3 digits which are then evaluated. If the function code does not exist, the display flashes, and an error sound is given in the loudspeaker. You can now reenter the function code or enter a completely new one.

If you regret while entering a function code, press the asterisk (*) and the function code will be considered illegal.

Note: In all the examples the # is a symbol for the cursor. When necessary the underscore (_) under the display indicates the cursor position.

3 examples of function code entry:

Entry	Display	
	SERVICE MODE	- initial state
0	0#	- enter first cipher in function code
0	00#	- enter second cipher in function code
0	000 001 001 400	- enter third cipher in function code

Fig. 1.3 Entry of 000 (clear all).

Entry	Display	
	SERVICE MODE	- initial state
0	0#	- enter first cipher in function code
0	00#	- enter second cipher in function code
3	003 (flashing)	- enter third cipher in function code

Fig. 1.4 Illegal function code entry.

Entry	Display	
	SERVICE MODE	- initial state
0	0#	- enter first cipher in function code
*	I (flashing)	- regret with an asterisk

Fig. 1.5 Terminating function code entry with an asterisk.

2. HOW TO ENTER SERVICE MODE

The radio can be switched into service mode in two ways:

1. Insertion of a special programmed service code plug in the control box.
2. Before starting up, pin 3 and pin 16 are connected to each other. A wire is connected from pin 16 to +5 volt (pin9) via a 220 ohm pull-up resistor.

A code plug is a service code plug if word 0 in the NMC 9306 serial EEPROM is XX1X hex. Hence if the H-bus reads a service code plug the second byte is equal 1X hex (X = don't care).

If insertion of a service code plug shall be simulated by test equipment, the test equipment must follow this procedure:

1. Generate the code plug insert message code plug IN.
2. Wait for the reception of the message code plug READ.
3. Respond to the read request by issuing a DATA FROM code plug message with the required number of data bytes.
4. Repeat step 2 and 3 until the whole code plug is transferred.

3. FUNCTION CODES

3.1. OVERVIEW

The following is a brief listing of all the function codes and their meaning.

000		Clear all (calls all other clear functions)
001		Display the software package number
004		Erase the encryption key(s)
100		Clear channel functions
110	<channel>	Select Rx-channel from channel-group 0
111	<channel>	Select Rx-channel from channel-group 1
112	<channel>	Select Rx-channel from channel-group 2
113	<channel>	Select Rx-channel from channel-group 3
120	<channel>	Select Tx-channel from channel-group 0
121	<channel>	Select Tx-channel from channel-group 1
122	<channel>	Select Tx-channel from channel-group 2
123	<channel>	Select Tx-channel from channel-group 3
131	<adjust>	Rx = 66.510, Tx = 66.460 MHz
132	<adjust>	Rx = 74.520, Tx = 74.040 MHz
133	<adjust>	Rx = 87.060, Tx = 86.970 MHz
134	<adjust>	Rx = 77.000, Tx = 77.000 MHz
141	<adjust>	Rx = 136.900, Tx = 136.900 MHz
142	<adjust>	Rx = 151.150, Tx = 150.400 MHz
143	<adjust>	Rx = 172.450, Tx = 172.300 MHz
144	<adjust>	Rx = 155.000, Tx = 155.000 MHz

SERVICE MODE - CQM6000/MC spectro - EF SOFTWARE

161	<adjust>	Rx = 404.600, Tx = 404.700 MHz
162	<adjust>	Rx = 430.200, Tx = 430.700 MHz
163	<adjust>	Rx = 467.300, Tx = 467.400 MHz
164	<adjust>	Rx = 436.500, Tx = 436.500 MHz
165	<adjust>	Rx = 404.600, Tx = 404.700 MHz *
166	<adjust>	Rx = 430.200, Tx = 430.700 MHz * 12.5 kHz
167	<adjust>	Rx = 467.300, Tx = 467.400 MHz * only.
168	<adjust>	Rx = 436.500, Tx = 436.500 MHz *
171	<adjust>	Rx = 174.900, Tx = 174.900 MHz
172	<adjust>	Rx = 188.900, Tx = 188.400 MHz
173	<adjust>	Rx = 208.600, Tx = 208.600 MHz
174	<adjust>	Rx = 192.000, Tx = 192.000 MHz
175	<adjust>	Rx = 190.900, Tx = 190.900 MHz
176	<adjust>	Rx = 204.560, Tx = 204.300 MHz
177	<adjust>	Rx = 223.650, Tx = 223.600 MHz
178	<adjust>	Rx = 207.500, Tx = 207.500 MHz
200		Clear Tx functions
211		Select high Tx power
212		Select low Tx power
220		Select speech transmission in clear voice
221		Select speech transmission in secure voice
230		Select normal range (REX off)
231		Select extended range (REX on)
300		Clear Rx functions
400		Clear audio functions
410		Volume level 0
411		Volume level 1
412		Volume level 2
413		Volume level 3
414		Volume level 4
415		Volume level 5
416		Volume level 6
417		Volume level 7
430		Squelch bypass off
431		Squelch bypass on
440		Select audio through DCAP
441		Select standard audio paths
500		Clear signalling
521		Enable decoding
522	<system>	Select signalling system for decoder
523	<digits>	Select number of digits in received telegrams
531		Send a telegram
532	<system>	Select signalling system for encoder
533	<digits>	Select number of digits in send telegrams
534	<telegram>	Enter telegram for transmitter
540		Optional channel guard encoder
541		Optional channel guard decoder
700		Clear programming
710	<addr>	Read from program code ($0000 \leq \text{addr} \leq \text{FFFF}$)
720	<addr>	Read from personality prom ($\text{C000} \leq \text{addr} \leq \text{C7FF}$)
730	<addr><data>	Write to personality prom ($\text{C000} \leq \text{addr} \leq \text{C7FF}$)
740	<addr>	Read from code plug ($00 \leq \text{addr} \leq 1\text{F}$)
750	<addr><data>	Write to code plug ($02 \leq \text{addr} \leq 1\text{F}$)
760	<addr>	Select code plug-device address (20 - 2A)

3.2. FUNCTION CODE 0xx - SPECIAL FUNCTIONS.

All function codes in this group are used for special purposes which are normally non-general functions unique to the specific radio. There is one exception, and that is function code 000 which is a general clear.

3.2.1. 000 - general clear.

This code activates all clear functions in the other function groups, i.e. 100, 200, ... The display in the control box is switched to the standard display format:

Display:

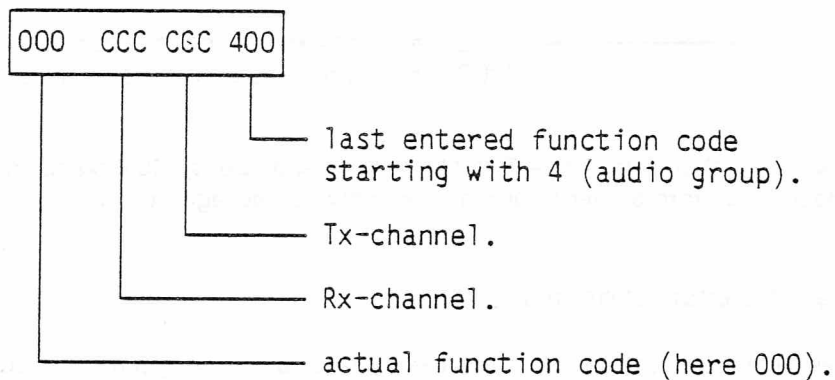


Fig. 3.1 Standard display format.

After a general clear, the radio has the following defaults:

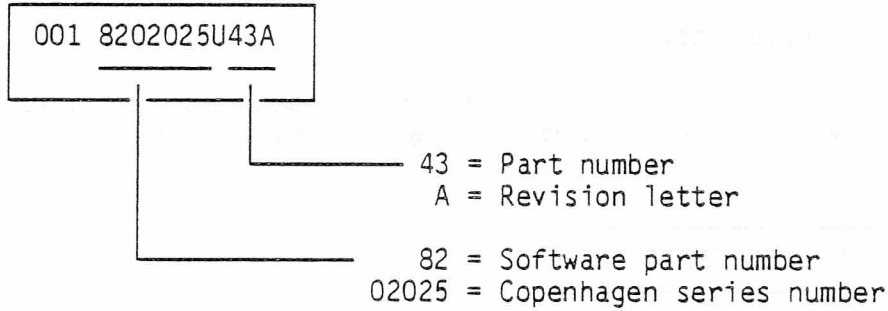
Volume	4
Rx-channel	The first available channel
Tx-channel	The first available channel
Encryption	OFF (= clear voice)
Encoder system	CCIR sequential tones
Decoder system	CCIR sequential tones
Number of digits in a received telegram	5
Number of digits in a transmitted telegram	5
Decoding	Disabled
Telegram to send	1 2 3 4 5 6 7 8 9 A B C .
Squelch bypass	OFF
code plug device addr	20

Fig. 3.2 Default values.

3.2.2. 001 - display the software package number

This function displays the software package number including the revision no.

Display :



The software package number in the code PROM is placed at address 100 hexadecimal and forward. If no radio is available use prom burner to display the software package number.

3.2.3. 004 - erase the encryption key(s)

The encryption key(s) in the encryption module is/are cleared by entering function code 004. A key loader is needed to load the key(s) again.

Code 0-0-4 Erase encryption key.

Entry	Display	Comments
	#00 001 001 400	- initial state.
0	0# 001 001 400	- enter first cipher in function code.
0	00# 001 001 400	- enter second cipher in function code.
4	004 KEY ERASED	- function code now entered.

Fig. 3.3 How te erase the encryption key(s)

When function code 004 is entered, the radio performs the same tests as when function code 221 (select secure voice) is entered, except that the encryption key is not tested. If a test fails, the radio behaves as described in the section on function codes 22x, except that "004" is shown instead of "221".

3.3. FUNCTION CODE 1xx. - CHANNEL FUNCTIONS

Function codes in this group are used to select receiver (Rx) and transmitter (Tx) channels. These can be selected independently of each other.

The channels can be selected arbitrarily among the defined channels in all 4 channel groups. The channels are referred to by their logical number.

The general syntax for function codes in this group is as follows:

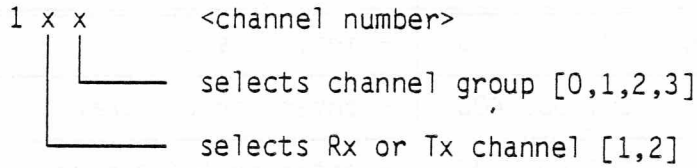


Fig. 3.4 Syntax of function code 1xx.

The second cipher in the function code specifies the following:

- 1 = Select Rx-channel.
- 2 = Select Tx-channel.

The third cipher points out the channel group, i.e. group 0 to group 3.

When the function code is entered, the radio waits for a 3 digit channel number before searching in the channel table.

An attempt to select an illegal (undefined) channel will result in an error sound in the loudspeaker and the channel will remain unchanged.

3.3.1. 100 - clear channel functions.

Function code 100 is used to clear all channel functions, i.e. to select the default channels:

Rx-channel is the same as Tx-channel, which is selected as the first available channel. Channel group 0 is examined before channel group 1 etc.

The display layout is the general display format (see fig. 3.1).

3.3.2. 11x - select receiver channel.

x selects the channel group which can be group 0 to 3.

An example of selection of a receiver channel is shown below. It is assumed that the Rx- and Tx-channels are both 001 and that you want to select receiver channel 004. "#" is the cursor.



Entry	Display	Comments
	#00 001 001 400	- initial state.
1	1# 001 001 400	- enter first cipher in function code.
1	11# 001 001 400	- enter second cipher in function code.
0	110 #01 001 400	- function code now entered.
0	110 0#1 001 400	- enter first cipher in channel number
*	110 0#1 001 400	- enter a wrong key by accident.
0	110 00# 001 400	- enter second cipher in channel number.
4	#10 004 001 400	- enter third cipher in channel number.

Fig. 3.5 Entry of Rx-channel

When a channel number is fully entered (3 digits) the specified channel, if it exists, is selected and the cursor is positioned at the first cipher in the function code ready to receive a new function code. If an illegal channel number is entered, an error sound is given, and the channel is not changed. This is indicated by displaying the standard display format with the original channel.

3.3.3. 12x - select transmitter channel.

x selects the channel group which can be group 0 to 3.

An example of selection of a transmitter channel is shown below. It is assumed that the Rx- and Tx-channels are both 001 and that you want to select transmitter channel 007. "#" is the cursor.

Entry	Display	Comments
	#00 001 001 400	- initial state.
1	1# 001 001 400	- enter first cipher in function code.
2	12# 001 001 400	- enter second cipher in function code.
3	123 001 #01 400	- function code now entered.
0	110 001 0#1 400	- enter first cipher in channel number
0	110 001 00# 400	- enter second cipher in channel number.
7	#10 001 007 400	- enter third cipher in channel number.

Fig 3.6 Entry of Tx-channel.

When a channel number is fully entered (3 digits) the specified channel, if it exists, is selected, and the cursor is positioned at the first cipher in the function code ready to receive a new function code. If an illegal channel number is entered, an error sound is given, and the channel is not changed. This is indicated by displaying the standard display format with the original channel.

3.3.4. 1xy - adjust frequencies.

For each frequency band the following four adjust frequencies are available: center frequency in low window, center frequency in the middle window, center frequency in the high window, and the center band frequency. Low Tx-power is default setting and the setting is without channel guard tone.

x selects the frequency band which can be 3, 4, 6, and 7

- 3 = adjust frequencies in band 66-88 MHz
- 4 = adjust frequencies in band 136-174 MHz
- 6 = adjust frequencies in band 403-470 MHz
- 7 = adjust frequencies in band 174-225 MHz

y selects the adjust window or center band frequency.

- 1 = 5 = center frequency in the low window
- 2 = 6 = center frequency in the middle window
- 3 = 7 = center frequency in the high window
- 4 = 8 = center band frequency

An example of selection of Tx/Rx adjust frequencies on a CQM633x for center frequency in the low window.

Entry	Display	Comments
	#00 001 001 400	- initial state.
1	1# 001 001 400	- enter first cipher in function code.
3	13# 001 001 400	- enter second cipher in function code.
1	131 131 131 400	- function code now entered.

Fig 3.7 Entry of adjust frequency.

When the function code is completely entered (3 digits) the specified Tx and Rx frequency is selected. The cursor is positioned at the first cipher in function code ready to receive a new function code. If an illegal function code is entered, an error sound is given.

3.4. FUNCTION CODE 2xx - TX-FUNCTIONS

3.4.1. 200 - clear Tx-functions

Function code 200 is used to clear all Tx-functions

3.4.2. 21x - optional Tx power

The high Tx power setting and the low Tx power setting are respectively invoked with code 211 and code 212.

Low power is the range from 0.6 Watt to 2.5 Watt. High power is the range from 6 Watt to 2.5 Watt. The state is maintained one PTT period.

Code 2-1-1 Select high Tx power
Code 2-1-2 Select low Tx power

Entry	Display	Comments
	#00 001 001 400	- initial state.
2	2# 001 001 400	- enter first cipher in function code.
1	21# 001 001 400	- enter second cipher in function code.
1	211 HIGH TX-POW.	- function code now entered.

Fig 3.8 How to select high Tx- power.

3.4.3. 22x - secure voice on/off

The following speech transmissions are in clear/secure mode respectively. The mode is unchanged until a new 22x function code is entered, or until clear mode is selected by function code 200 or 000. The current mode is indicated by the ø-indicator of the CB's supporting encryption. The ø-indicator is lit when the radio is in secure mode.

Code 2-2-0 Select clear voice
Code 2-2-1 Select secure voice

Entry	Display	Comments
	#00 001 001 400	- initial state.
2	2# 001 001 400	- enter first cipher in function code.
2	22# 001 001 400	- enter second cipher in function code.
1	221 SECURE VOICE	- function code now entered.

Fig 3.9 How to select secure voice.

When function code 221 is entered, the radio checks that a crypto module is present and working and that the encryption key is OK. This function therefore can also be used to test for proper operation of the encryption hardware. The following table shows which tests are made and the resulting display if a test fails. The tests are performed in the order below. If a test fails, the radio further stays in clear mode and an error sound is heard in the loudspeaker.

Test for	Display, if test fails:
Personality PROM specifies a valid encryption module type installed in radio.	221 NO ENCR PROG
UART device is operating properly.	221 UART ERROR
Encryption module is operating properly	221 BAD ENCR MOD
Key is OK	221 KEY FAILED

Fig. 3.10 Error checks in function code 221.

Note: If signalling is transmitted during transmission of secure voice, the signalling will be encrypted.

3.4.4. 23x - range extension on/off.

Following secure voice, transmissions are transmitted with the range extension feature switched off or on by the function codes 230 and 231 respectively. The setting is unchanged until a new 23x function code is entered.

Code 2-3-0 Select range extension off.
 Code 2-3-1 Select range extension on.

Entry	Display	Comments
	#00 001 001 400	- initial state.
2	2# 001 001 400	- enter first cipher in function code.
3	23# 001 001 400	- enter second cipher in function code.
1	231 RANGE EXTEND	- function code now entered.

Fig 3.11 How to select range extension on.

When function code 230 or 231 is entered the radio performs the same tests as when function code 221 (select secure voice) is entered, except that the encryption key is not tested. If a test fails, the radio behaves as described in the section on function codes 22x, except that the current function code is shown instead of "221".

3.5. FUNCTION CODE 3xx - RX-FUNCTIONS.

The only function code in this group is 300 which is used to clear all Rx-functions.

3.6. FUNCTION CODE 4xx - AUDIO FUNCTIONS:

This group contains the audio functions. The general syntax is:

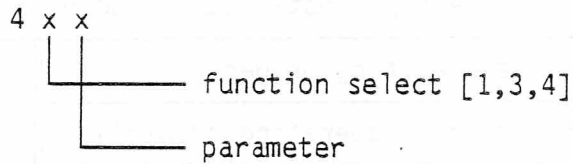


Fig. 3.12 Syntax of function code 4xx.

The functions implemented are:

function select	function	parameter
1	select volume	volume level [0-8]
3	squelch bypass	on/off
4	DCAP audio	on/off

Fig. 3.13 Possible audio settings.

3.6.1. 400 - clear audio functions.

The function code 400 is used to select the default values for the audio functions. The default values are:

- Volume level 4.
- Squelch bypass off.

The display layout is the standard display format, e.g.:

400 001 001 400

Fig. 3.14 Audio display format.

3.6.2. 41x - select volume level.

41x is used to select volume according to the third cipher in the function code, e.g. 413 selects volume level 3. The legal range for the volume is 0 - 7.

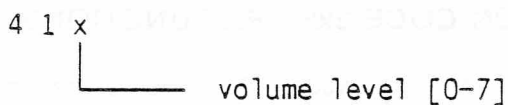
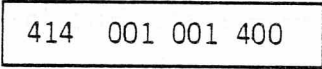


Fig. 3.15 Syntax for volume select.

When a new volume is entered the radio changes the volume and gives a short beep in the loudspeaker with the new volume. This beep comes immediately after the key-press beep.

The display layout is the standard display format, e.g.:



414 001 001 400

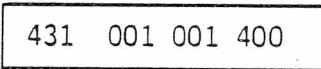
Fig. 3.16 Display format when selecting volume.

3.6.3. 43x - squelch bypass on/off.

431 is used to open the LF-way from the receiver to the loudspeaker regardless of carrier detection. This is what is called squelch bypass.

430 is used to clear this function, thus the loudspeaker follows the carrier detection, i.e. when carrier is detected, the loudspeaker is enabled.

The display layout is the standard display format, e.g.:



431 001 001 400

Fig. 3.17 Display format using function code 43x.

3.6.4. 44x - DCAP audio on/off.

440 is used to guide audio respectively through CG-reject filter and through the CODEC. The 440 function is maintained until disabled by 441 function.

The display layout is the standard display format, e.g.:



440 DCAP AUDIO

Fig. 3.18 Display format using function code 440.

441 is used to toggle the 4440 setting in order to obtain default setting.

3.7. FUNCTION CODE 5xx - SIGNALLING FUNCTIONS.

Function codes in this group are all used for signalling purposes which are mostly to drive the 7720 signal processor.

The general syntax for this group is:

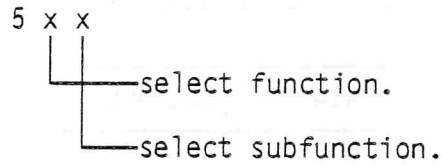


Fig. 3.19 Syntax for function code 5xx.

The second cipher in the function code is used to determine which part of the signalling function is selected:

1. 0. Clear signalling.
2. 1. Not used
3. 2. Decoder functions.
4. 3. Encoder functions

The third cipher has the same subfunction for the two latter groups:

1. 0. Not used.
2. 1. Enable decoding/encoding (send/receive).
3. 2. Select signalling system.
4. 3. Select number of digits in the telegram.
5. 4. Enter telegram (for the encoder only).

3.7.1. 500 - clear signalling functions.

500 selects the default signalling parameters:

Encoder system	CCIR sequential tones
Decoder system	CCIR sequential tones
Number of digits in a received telegram	5
Number of digits in a transmitted telegram	5
Decoding	Disabled
Telegram to send:	1 2 3 4 5 6 7 8 9 A B C

Fig. 3.20 Default signalling values.

3.7.2. 521 - enable decoding.

521 enables decoding the effect of which is that each time a telegram of the specified type and the specified number of digits is received, the square lamp in the control box will be lit, and the telegram will be read out in the display.

Note: If a function code from any other function group than 5xx is activated, only the square lamp will be lit. The telegram will NOT be shown in the display.

The decoding will remain enabled until a clear signalling command (500) has been executed.

To turn off the square lamp use the 521 command again.

If more telegrams are sent immediately after each other there can be a problem with detection of the 2nd and the following telegrams due to the fact that it takes a finite time to set up the decoder.

Entry	Display	Comments
	#00 001 001 400	- initial state.
5	5# 001 001 400	- enter first cipher in function code.
2	52# 001 001 400	- enter second cipher in function code.
1	#21	- function code now entered. Waiting for a telegram or a new function code.

Upon reception of the telegram "12345" the display will show the telegram:

#21 12345

Fig. 3.21 Enable decoding.

3.7.3. 522 - select decoder system.

522 selects signalling system for the decoder according to the following table:

Code Signalling system	
00	= reserved.
01	= ZVEI 1
02	= ZVEI 2
03	= ZVEI 3
04	= CCIR
05	= EEA
06	= VDEW (not yet implemented)
07	= not used
08	= not used
09	= Binary ZVEI 1200 baud
10	= not used
11	= Binary EEA 1200 baud
12	= not used
13	= not used
14	= Type approval
15	= Special tone system (see personality prom)

Fig. 3.22 Signalling systems.

Note that the above values are the same as the values used when specifying the personality data.

Example on how to select decoder system ZVEI 1:

Entry	Display	Comments
	#00 001 001 400	- initial state.
5	5# 001 001 400	- enter first cipher in function code.
2	52# 001 001 400	- enter second cipher in function code.
2	522 SYSTEM:#	- function code now entered.
0	522 SYSTEM:0#	- enter first cipher in decoder system.
1	#22 SYSTEM:01	- enter second cipher in decoder system.

Fig. 3.23 Selection of decoder system.

3.7.4. 523 - select number of digits in received telegrams.

523 selects number of digits the radio must receive before it is considered as a telegram. The legal range is 01 to 12 and it is always necessary to enter two digits, i.e. four is entered as 04.

Below is an example on selecting telegrams with 4 digits.

Entry	Display	Comments
	#00 001 001 400	- initial state.
5	5# 001 001 400	- enter first cipher in function code.
2	52# 001 001 400	- enter second cipher in function code.
3	523 DIGITS:#	- function code now entered.
0	523 DIGITS:0#	- enter first cipher in number of digits.
4	#23 DIGITS:04	- enter second cipher in number of digits.

Fig. 3.24 Entry of number of digits in a received telegram.

3.7.5. 531 send one telegram.

531 causes a telegram of the specified type to be sent. Note that if the synthesizer does not lock on the Tx-channel the telegram is not sent.

3.7.6. 532 - select encoder system.

532 selects encoder system according to the previously shown table. The transmitter inserts repeat tones automatically when necessary.

Example on how to select encoder system to binary EEA 1200 baud.

Entry	Display	Comments
	#00 001 001 400	- initial state.
5	5# 001 001 400	- enter first cipher in function code.
3	53# 001 001 400	- enter second cipher in function code.
2	532 SYSTEM:#	- function code now entered.
1	532 SYSTEM:1#	- enter first cipher in decoder system.
1	#32 SYSTEM:11	- enter second cipher in decoder system.

Fig. 3.25 Selection of encoder system.

3.7.7. 533 - select number of digits in transmitted telegrams.

533 selects number of digits in the transmitted telegram. The legal range is 00 to 12 and it is always necessary to enter two digits, i.e. digits is entered as 06.

Below is an example on selecting telegrams with 10 digits.

Entry	Display	Comments
	#00 001 001 400	- initial state.
5	5# 001 001 400	- enter first cipher in function code.
2	52# 001 001 400	- enter second cipher in function code.
3	533 DIGITS:#	- function code now entered.
1	533 DIGITS:1#	- enter first cipher in number of digits.
0	#33 DIGITS:10	- enter second cipher in number of digits.

Fig. 3.26 Entry of number of digits in a send telegram.

3.7.8. 534 - select encoder telegram.

534 selects the actual digits in the transmitted telegram. The digits are entered as hexadecimal digits in the form shown in the table below.

Key sequence	Display
00	0
01	1
02	2
03	3
04	4
05	5
06	6
07	7
08	8
09	9
10	A
11	B
12	C
13	D
14	E
15	F

Fig 3.27 Entry of hexadecimal numbers.

Any other combination of numerical keys is ignored, apart from an error sound which is given in the loudspeaker.

A sequence which data is terminated by activating the asterisk (*).

	Telegram buffer
1. The default telegram buffer is: The number of digits is 5:	123456789ABC ^____^
2. You enter 5 new digits 57680 :	576806789ABC ^____^
3. You select number of digits in the telegram to 8:	576806789ABC ^____^
4. You send the telegram:	57680678

Fig. 3.28 Entry of a telegram to send.

The next example shows entry of a telegram when the number of digits in the telegram is specified to 3. Assume that the telegram to be entered is 6A1.

Entry	Display	Comments
	#00 001 001 400	- initial state.
5	5# 001 001 400	- enter first cipher in function code.
3	53# 001 001 400	- enter second cipher in function code.
4	534 #	- function code now entered.
0	534 #	- enter first cipher of telegram.
6	534 6#	- enter first cipher of telegram.
1	534 6#	- enter second cipher of telegram.
0	534 6A#	- enter second cipher of telegram.
0	534 6A#	- enter third cipher of telegram.
1	#34 6A1	- enter third cipher of telegram.

The telegram is now entered and the cursor is positioned at the first cipher in the function code ready to receive a new function code.

Fig. 3.29 Entry of the digits in a telegram to send.

3.7.9. 540 - optional channel guard encoder.

The CG-tones are in accordance with the EIA standard RS-220-A.

To select a channel guard encode tone press 5-4-0 followed by a subcode from the table below.

The digit "F" resets the channel guard encoder. The state is maintained one PTT period.

Subcode	0-0	Channel guard enc. generate	67 Hz
Subcode	0-1	Channel guard enc. generate	77 Hz
Subcode	0-2	Channel guard enc. generate	88.5 Hz
Subcode	0-3	Channel guard enc. generate	100 Hz
Subcode	0-4	Channel guard enc. generate	107.2 Hz
Subcode	0-5	Channel guard enc. generate	114.8 Hz
Subcode	0-6	Channel guard enc. generate	123 Hz
Subcode	0-7	Channel guard enc. generate	131.8 Hz
Subcode	0-8	Channel guard enc. generate	141.3 Hz
Subcode	0-9	Channel guard enc. generate	151.4 Hz
Subcode	1-0	Channel guard enc. generate	162.2 Hz
Subcode	1-1	Channel guard enc. generate	173.8 Hz
Subcode	1-2	Channel guard enc. generate	186.2 Hz
Subcode	1-3	Channel guard enc. generate	203.5 Hz
Subcode	1-4	Channel guard enc. generate	218.1 Hz
Subcode	1-5	Channel guard encode is disabled.	

Example of how to select CG-encoder 141.3 Hz tone.

Entry	Display	Comments
	#00 001 001 400	- initial state.
5	5# 001 001 400	- enter first cipher in function code.
4	54# 001 001 400	- enter second cipher in function code.
0	540 CG ENC TON:#	- function code now entered.
0	540 CG ENC TON:#	- enter first cipher in cg subcode
8	#40 CG ENC TON:8	- enter first cipher in cg subcode

Fig. 3.30 Selection of CG-encode tone.

3.7.10. 541 - optional channel guard decoder.

The CG-tones are in accordance with the EIA standard RS-220-A.

To select a channel guard encode tone press 5-4-1 followed by a subcode from the table below.

The state is maintained until another tone is selected.

When the CG. tone is detected the triangle indicator is lit.

Subcode	0-0	Load the CG6001 module with	67 Hz
Subcode	0-1	Load the CG6001 module with	77 Hz
Subcode	0-2	Load the CG6001 module with	88.5 Hz

Subcode 0-3	Load the CG6001 module with	100 Hz
Subcode 0-4	Load the CG6001 module with	107.2 Hz
Subcode 0-5	Load the CG6001 module with	114.8 Hz
Subcode 0-6	Load the CG6001 module with	123 Hz
Subcode 0-7	Load the CG6001 module with	131.8 Hz
Subcode 0-8	Load the CG6001 module with	141.3 Hz
Subcode 0-9	Load the CG6001 module with	151.4 Hz
Subcode 1-0	Load the CG6001 module with	162.2 Hz
Subcode 1-1	Load the CG6001 module with	173.8 Hz
Subcode 1-2	Load the CG6001 module with	186.2 Hz
Subcode 1-3	Load the CG6001 module with	203.5 Hz

Example of how to load the CG6001 module to match with CG-decoder tone equal 173.8 Hz.

Entry	Display	Comments
.	#00 001 001 400	- initial state.
5	5# 001 001 400	- enter first cipher in function code.
4	54# 001 001 400	- enter second cipher in function code.
1	541 CG DEC TON:#	- function code now entered.
1	541 CG DEC TON:#	- enter first cipher in cg subcode
1	#41 CG DEC TON:B	- enter first cipher in cg subcode

Fig. 3.31 Selection of CG-decoder tone.

3.8. FUNCTION CODE 6xx - I/O FUNCTIONS.

Function codes from this function group are used to monitor and manipulate the input and output ports which are available to the user.

The general syntax for this function group is as follows:

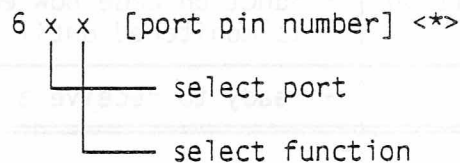


Fig. 3.32 Syntax of function codes 6xx.

The second cipher in the function code is used to select the ports:

1. Select the rear connector.
2. Select output expander 0.
3. Select output expander 1.
4. Select input expander 1.
5. Select internal port 1.
6. Select internal port 3.
7. Select output expander 2.

The third cipher selects the function where it is relevant, e.g. it is not possible to write to a input port.

0. Read port pins.
1. Reset specified port pin number.
2. Set specified port pin number.
3. Change specified port pin number.

Each function can be used in conjunction with any relevant port, but it is the same function irrespective of the port. Therefore the functions are only described once and not separately for each port.

The port pins are numbered from 0 to 7 and are shown in the display with pin number 7 as most the significant bit. Thus a port pin is referred to by its number.

All the functions in this group are terminated by activating the asterisk (*) on the control box.

3.8.1. 6x0 - read function.

All accessible pins for the selected port are shown in the display as 1 if they are logical 1 and 0 if they are logical 0. If a port pin is inaccessible it is shown as a ("-").

The display is only updated from the port every 50 mS which means that a very fast "double change" may not be shown in the display.

The monitoring is stopped by pressing the asterisk (*) on the control box. All numeral keys are inactive.

Entry	Display	Comments
	#00 001 001 400	- initial state.
6	6# 001 001 400	- enter first cipher in function code.
2	62# 001 001 400	- enter second cipher in function code.
0	620 10011100	- function code now entered and the port is monitored until termination.
*	#20	- ready to receive a new function code.

Fig. 3.33 Read a port.

3.8.2. 6x1 - reset function.

When a function code is entered the actual port is shown in the display and the radio asks for the pin number which has to be reset, i.e. set to 0.

If an illegal pin number is entered, the radio writes an "X" until a legal pin number is entered.

The port specified will remain monitored and shown in the display until an asterisk (*) is activated. It is possible to enter additional port pin numbers until the function is terminated.

NOTE: The radio can cause a port pin to change. Thus a port pin may be set immediately after a reset command, e.g. the volume level is changed because of an alert.

Entry	Display	Comments
	#00 001 001 400	- initial state.
6	6# 001 001 400	- enter first cipher in function code.
1	61# 001 001 400	- enter second cipher in function code.
1	611 P:# 111-0101	- function code is entered and waiting for pin number.
0	611 P: <u>X</u> 111-0101	- attempt to write to an input pin.
2	611 P: <u>2</u> 111-0101	- clear pin 2
*	#11	- termination

Fig. 3.34 Reset a port pin

Note that the underscore means that the cursor is in that position.

3.8.3. 6x2 - set function.

When a function code is entered the actual port is shown in the display and the radio asks for the pin number which has to be set, i.e. set to 1.

If an illegal pin number is entered, the radio writes an "X" until a legal pin number is entered.

The port specified will remain monitored and shown in the display until an asterisk (*) is activated. It is possible to enter additional port pin numbers until the function is terminated.

NOTE: The radio can cause a port pin to change. Thus a port pin may be set immediately after a reset command, e.g. the volume level is changed because of an alert.

Entry	Display	Comments
	#00 001 001 400	- initial state.
6	6# 001 001 400	- enter first cipher in function code.
1	61# 001 001 400	- enter second cipher in function code.
2	612 P:# 111-0101	- function code is entered and waiting for pin number.
0	612 P:X 111-0101	- attempt to write to an input pin.
1	612 P:2 111-0101	- set pin 1.
*	#12	- termination

Fig. 3.35 Set a port pin

3.8.4. 6x3 - change function.

When a function code is entered the actual port is shown in the display and the radio asks for the pin number the status of which has to be changed, i.e. 0 -> 1 or 1 -> 0.

As long as the key corresponding to the actual port pin number is depressed the pin will remain changed.

If an illegal pin number is entered, the radio writes an "X" until the key is released.

The port specified will remain monitored and shown in the display until an asterisk (*) is activated. It is possible to enter additional port pin numbers until the function is terminated.

An example:

Entry	Display	Comments
	#00 001 001 400	- initial state.
6	6# 001 001 400	- enter first cipher in function code.
1	61# 001 001 400	- enter second cipher in function code.
3	613 P:# 111-0101	- function code is entered and waiting for pin number.
press 2	613 P:2 111-0001	- change pin 2.
release 2	613 P:# 111-0101	- restore pin 2
press 7	613 P:X 111-0101	- attempt to write to an input pin
release 7	613 P:# 111-0001	- attempt to write to an input pin.
*	#13	- termination.

Fig. 3.36 Change port pins

3.9. Format of the port images.

The format of the port-image in the display is as follows:

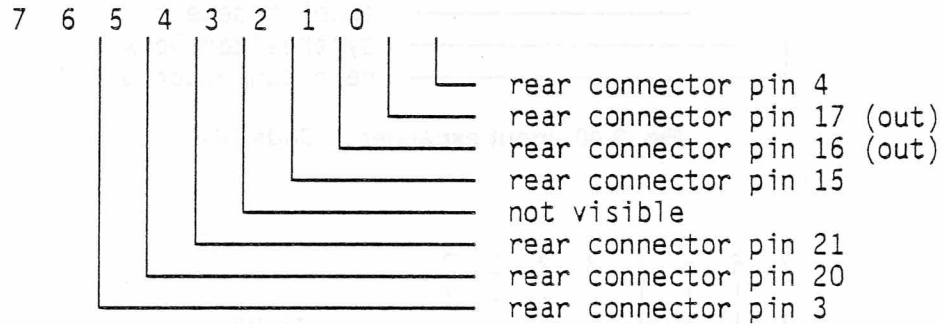


Fig. 3.37 Rear connector. Code 61x.

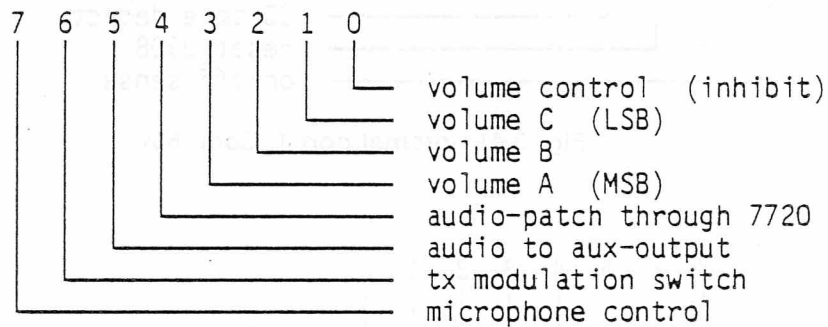


Fig. 3.38 Output expander 0. Code 62x.

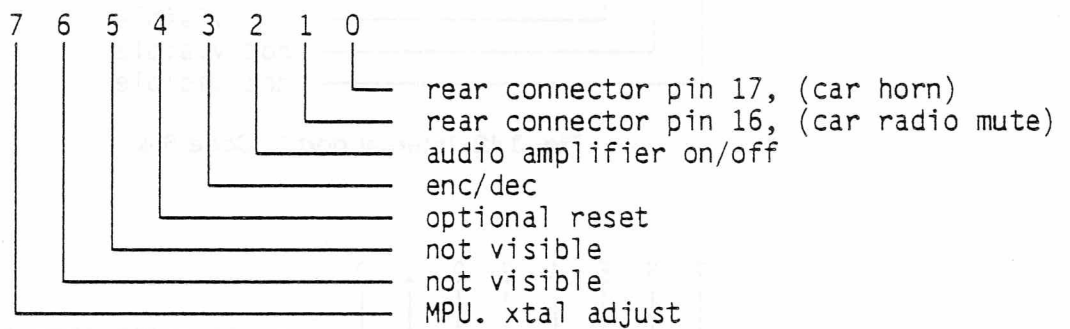


Fig. 3.39 Output expander 1. Code 63x.

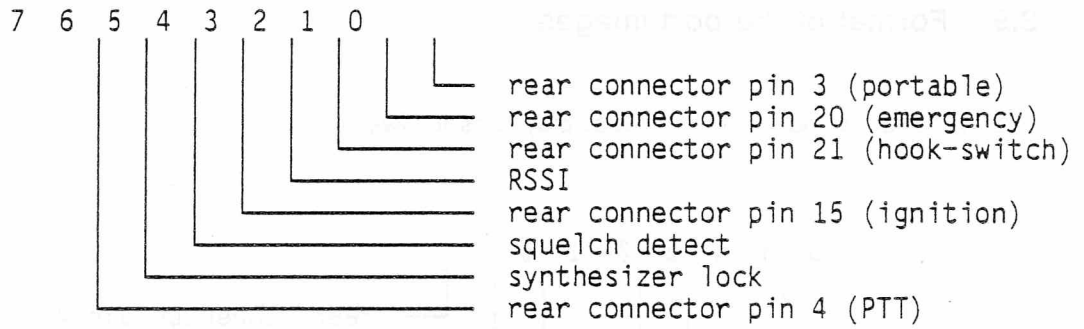


Fig. 3.40 Input expander 0. Code 64x

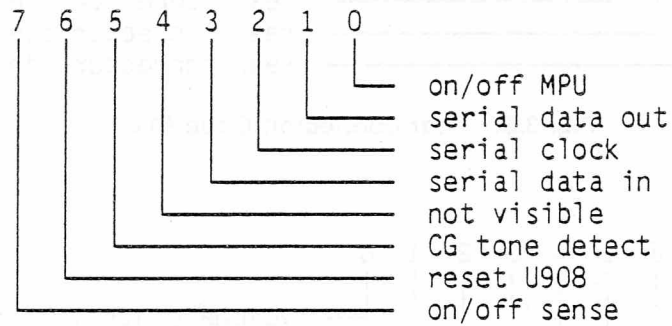


Fig. 3.41 Internal port 1. Code 65x.

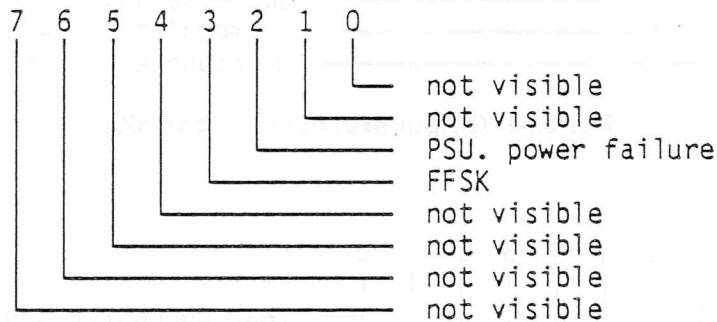


Fig. 3.42 Internal port 3. Code 66x.

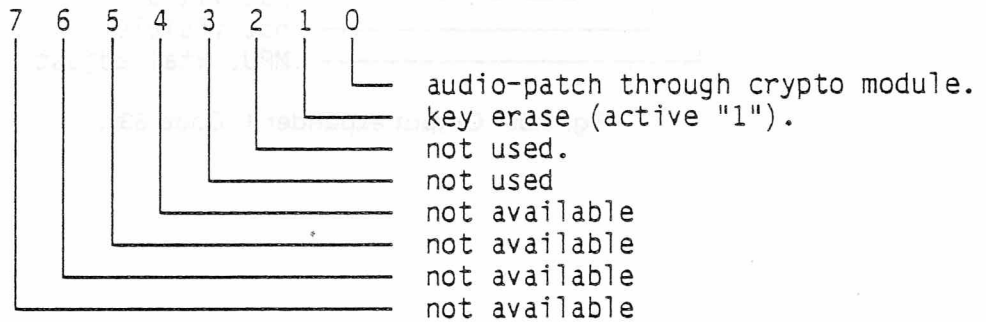


Fig. 3.43 Output expander 2. Code 67x.

3.10. FUNCTION CODE 7xx - PROGRAMMING.

This function group is used for programming purposes and to show the contents of the different storage devices in the radio (i.e. personality prom, program prom and code plug).

The general syntax for this group is as follows:

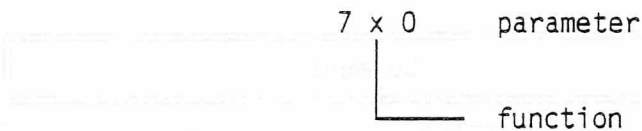


Fig. 3.44 Syntax of function code 7xx.

The functions implemented are:

function	description	parameter
0	Clear programming.	none
1	Read from program code.	addr [step...step] *
2	Read from personality data.	addr [step...step] *
3	Write into personality data.	addr [data...data] *
4	Read from code plug.	addr [step...step] *
5	Write to code plug.	addr [data...data] *
6	Select code plug-device addr	addr

Fig. 3.45 Programming functions.

The address and data are entered as decimal values for the corresponding hexadecimal ciphers and are shown in the display as the hexadecimal values. This means that a 4 digit hexadecimal number requires 8 key activations. The hexadecimal ciphers are entered as shown below:

Key sequence	Display
00	0
01	1
02	2
03	3
04	4
05	5
06	6
07	7
08	8
09	9
10	A
11	B
12	C
13	D
14	E
15	F

Fig. 3.46 Entry of hexadecimal numbers.

Any other combination of numerical keys is ignored apart from an error sound which is given in the loudspeaker.

A sequence which requires data is terminated by activating the asterisk (*).

3.10.1. 700 - Clear programming.

This function code initializes everything used in the programming functions to the original state as if the service mode was just entered.

Entry	Display	Comments
	#00 001 001 400	- initial state.
7	7# 001 001 400	- enter first cipher in function code.
0	70# 001 001 400	- enter second cipher in function code.
0	700	- function code entered.

Fig. 3.47 Clear programming.

3.10.2. 710 - read program prom.

Reads and displays the contents of the program prom at a specified address.

When the address is entered, and the data shown in the display, it is possible to step forward through the prom by activating the key corresponding to the number of steps wanted, i.e. if you want to step to following byte press key 1.

To exit from this mode just activate the asterisk (*) though it will be considered as an illegal entry.

An example where the prom cell at address 3C0F and further contains 5E, 00, E4, FF, 01, 44, A4, 7C.

Entry	Display	Comments
	#00 001 001 400	- initial state.
7	7# 001 001 400	- enter first cipher in function code.
1	71# 001 001 400	- enter second cipher in function code.
0	710 A:#	- function code entered ready to addr entry.
0	710 A:#	- enter first digit of the address.
3	710 A:3#	- enter first digit of the address.
1	710 A:3#	- enter second digit of the address
2	710 A:3C	- enter second digit of the address
0	710 A:3C#	- enter third digit of the address

continued

Entry	Display	Comments
0	710 A:3C0#	- enter third digit of the address.
1	710 A:3C0#	- enter fourth digit of the address.
5	710 A:3C0F D:5E	- enter fourth digit of the address.
1	710 A:3C10 D:00	- enter step forward.
3	710 A:3C13 D:FF	- enter step forward.
5	710 A:3C18 D:7C	- enter step forward.
*	#10 A:3C18 D:7C	- exit from this mode.

Fig. 3.48 Read from program prom.

3.10.3. 720 read personality prom.

Reads and displays the contents of the personality data at a specified address. The routine expects a correct address in the range C000-C7FF. If an illegal address is entered, an error sound will be given, and the cursor will be positioned at the first digit in the address ready to receive a correct address.

When the address is entered, and the data shown in the display, it is possible to step through the prom by activating the key corresponding to the number of steps wanted, i.e. if you want to step to the following byte press key 1.

To exit from this mode activate the asterisk (*), though it will be considered as an illegal entry.

An example where the personality data at address C010 and further contains C0, A0, C7, 00, C7, C0, FF, FF.

Entry	Display	Comments
	#00 01 001 400	- initial state.
7 2 0	720 A:#	- function code entered ready to addr entry.
1 2	720 A:C	- enter first digit of the address.
0 0	720 A:C0	- enter second digit of the address.
0 1	720 A:C01	- enter third digit of the address.
0 0	720 A:C010 D:C0	- enter fourth digit of the address.
1	720 A:C011 D:A0	- enter step forward.
2	720 A:C013 D:00	- enter step forward
*	#20 A:C013 D:00	- exit from this mode

Fig. 3.49 Read from personality prom.

3.10.4. 730 - write into personality data.

Writes bytes into the personality area at a specified address. The routine expects a correct address in the range C000-C7FF. If an illegal address is entered, an error sound will be given and the cursor will be positioned at the first digit in the address ready to receive a correct address.

When the address is entered the data is shown in the display, then the new data must be entered. If the data should not be changed it is necessary to write the same data as shown in the display.

When a byte is written (8 digits entered), the address is incremented by 1, and the radio is ready to receive new data to this address.

To exit from this mode press the asterisk (*).

If there is no EEPROM but an UV-prom in the radio, the radio writes "NO EEPROM" in the display. The prom is considered as an EEPROM if the cell C000H (the first byte in the personality prom) contains 00.

An example where you want to change the contents of address C1F0 from FF, 03, A5 to 04, 03, C0.

Entry	Display	Comments
	#00 001 001 400	- initial state.
7 3 0	730 A:#	- function code entered ready to addr entry.
1 2	730 A:C	- enter first digit of the address.
0 1	730 A:C1	- enter second digit of the address.
1 5	730 A:C1F	- enter third digit of the address.
0 0	730 A:C1F0 D:FF	- enter fourth digit of the address.
0 0	730 A:C1F0 D:0F	- enter first cipher in data.
0 4	730 A:C1F0 D:04	- enter second cipher in data.
	730 A:C1F1 D:03	- the byte is written
0 0	730 A:C1F1 D:03	- enter first cipher in data.
0 3	730 A:C1F1 D:03	- enter second cipher in data.
	730 A:C1F2 D:A5	- the byte is written
1 2	730 A:C1F2 D:C5	- enter first cipher in data.
0 0	730 A:C1F2 D:C0	- enter second cipher in data.
	730 A:C1F3 D:FF	- the byte is written
*	#30 A:C1F3 D:FF	- exit from this mode

Fig. 3.50 Write to personality prom.

3.10.5. 740 - read from code plug.

Reads and displays the contents of the code plug at a specified address. The routine expects a correct address in the range 00-1F (for the small code plug). If an illegal address is entered, an error sound will be given and the cursor will be positioned at the first digit in the address ready to receive a correct address.

If no code plug is present "NO code plug" is written in the display.

When the address is entered and the data is shown in the display, it is possible to step through the code plug by activating the key corresponding to the number of steps wanted, i.e. if you want to step to the following byte press key 1.

To exit from this mode activate the asterisk (*), though it will be considered as an illegal entry.

An example of where the code plug data at address 05 and further contains 12, A0, 3D, 00.

Entry	Display	Comments
	#00 001 001 400	- initial state.
7 4 0	740 A:#	- function code entered ready to addr enter
0 0	740 A:0	- enter first digit of the address.
0 5	740 A:05 D:12	- enter second digit of the address.
1	740 A:06 D:A0	- enter step forward
2	740 A:08 D:00	- enter step forward
*	#40 A:08 D:00	- exit from this mode

Fig. 3.51 Read code plug prom.

3.10.6. 750 - write into code plug.

Writes bytes into the code plug at specified address. The routine expects a correct address, i.e. in the range 00-1F. If an illegal address is entered, an error sound will be given and the cursor will be positioned at the first digit in the address ready to receive a correct address.

If no code plug is present, "NO code plug" is written in the display.

When the address is entered the data is shown in the display and the new data must be entered. If the data should not be changed, it is necessary to write the same data as shown in the display.

When a byte is written (4 digits entered), the address is incremented by 1, and the radio is ready to receive new data to this address.

To exit from this mode, just press the asterisk (*).

Note: It is not possible to program the first two bytes in the code plug, though the service-mode does not check if it is tried out.

An example of where you want to change the contents of address 13 from FF to 04.

Entry	Display	Comments
	#00 001 001 400	- initial state.
7 5 0	750 A:#	- function code entered ready to addr entry.
0 1	750 A:1#	- enter first digit of the address.
0 3	750 A:13 D:FF	- enter second digit of the address.
0 0	750 A:13 D:0F	- enter first cipher in data.
0 4	750 A:13 D:04	- enter second cipher in data.
	750 A:14 D:FF	- the byte is written
*	#50 A:C1F3 D:FF	- exit from this mode

Fig. 3.52 Write to code plug

3.10.7. 760 - select codeplug-device address.

This function code is used to change the H-bus address of the device in which the codeplug is located. The default address is the same as the default service-CB address, which is 20H.

The legal addresses are in the range 20H to 2AH. For this reason only the latter cipher has to be entered.

When the function code is entered the previous address is shown, and the cursor points at the less significant cipher.

The address is entered as a hexadecimal value.

An example where you want to specify the H-bus address to be 2A.

Entry	Display	Comments
	#00 001 001 400	- initial state.
7 6 0	760 CP-ADDR:20	- function code entered ready to addr entry.
10	#60 CP-ADDR:2A	- address is entered.

Fig. 3.53 Select H-bus address for codeplug.

ADJUSTMENT

- General adjustment procedure
- General adjustment procedure encryption version
- Test prom
- Receiver test set-up
- Transmitter test set-up
- Adjustable components and test points CF6001

- a) RF611x/RF677x
- b) RF633x
- c) RF666x

ADJUSTMENT PROCEDURE

ENCRYPTION

NOTE

Before starting the encryption test, be sure that all points are adjusted as specified in the adjustment procedures for the CQM6xxx, and MC spectro manuals.

Measure and note the input signal for 20 dB SINAD

KEY-LOAD

Load the key using the KEYLOADER to the actual encryption module.

BIT ERROR RATE

Load the encryption test box using the KEYLOADER to the actual encryption module.

Connect the Bit Error Analyzer to the encryption test box.

Connect the radio to the encryption test box.

Modulate the RF-signal generator with the TX output from the test box. Adjust the deviation to 3 kHz.

Locate P112 pin 2 at the EC6001 board and connect the point to the test box LINE input connector.

Adjust the output from the RF-signal generator according to the table below:

dB relative to 20 dB SINAD

	Fo	Fo +2 kHz	Fo -2 kHz
CQM6112	4	6	6
CQM6113	N.Y.R.	N.Y.R.	N.Y.R.
CQM6332	4	6	6
CQM6333	N.Y.R.	N.Y.R.	N.Y.R.
CQM6662	7	9	9
CQM6663	N.Y.R.	N.Y.R.	N.Y.R.

Measure the BIT ERROR RATE:

Requirement: BIT ERROR RATE < 1%

Rise the Output from the RF-generator to 0 dBm and measure the BIT ERROR RATE.

Requirement: NO BIT ERROR RATE.

ADJUSTMENT PROCEDURE, ENCRYPTION

PROPER CODE DETECT

Set the test box to internal bit generator (encrypted signal).
Using the output level from the RF-generator as shown in the table above (Only Fo, it is not necessary to measure at ± 2 kHz).
Check that the Proper Code LED at CB6xxx has start flashing.
Rise the output from the RF-generator to 0 dBm.
The Proper Code LED should still be flashing.

TALK TEST AND ENCRYPTED LINE ADJUSTMENT

Adjust the RF-generator output to -47 dBm (1 mV).
Connect the loudspeaker to the radio.
Set the test box to external microphone. Talk to the microphone and switch between "Analog" and encrypted mode. Adjust R326 until the volume in both "Analog" and encrypted modes appears to be the same.

TX MODULATION ADJUST

Set the radio in encrypted mode and key the TX.
Measure the adjacent channel power.
Adjust R304 for -70 dB adjacent channel power.
Requirement: -70 dB, +0 -2 dB.

CHECK OF PROPER CODE DETECT

Connect the TX to the test box using the power attenuator. Key the TX and check that the Proper Code LED has start flashing.



