July 2013

SERVICE MANUAL ADDENDUM

IC-M400BB

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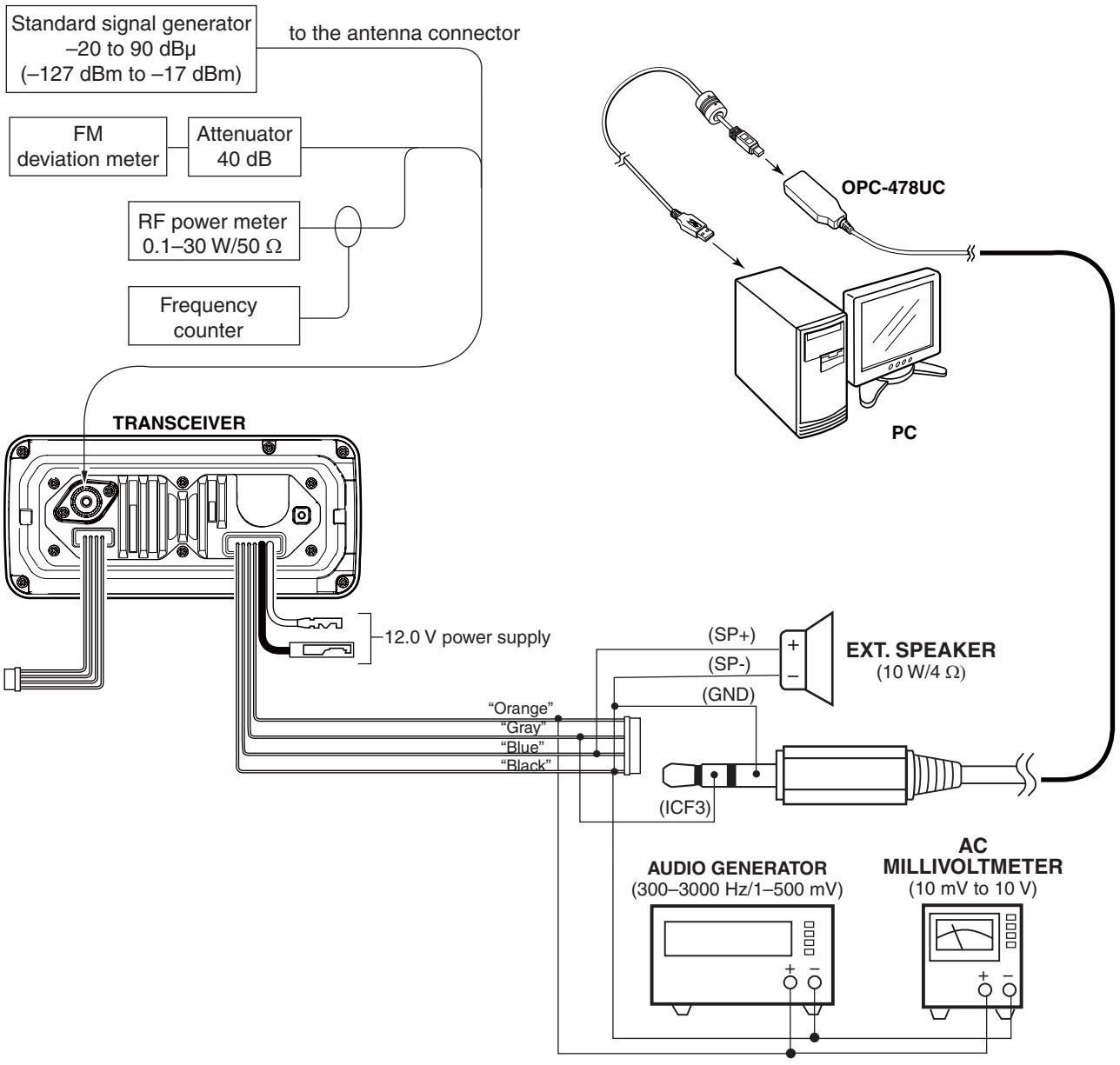
ADJUSTMENT PROCEDURE

1 PREPARATION

■ REQUIRED EQUIPMENTS

EQUIPMENT	GRADE AND RANGE	EQUIPMENT	GRADE AND RANGE
Adjustment software	ADJ-M324 (Revision 1.0 or later)	Cloning cable	OPC-478UC
Power supply	Voltage : 12.0 V Current capacity : More than 10 A		
RF power meter (50 Ω terminated)	Measuring range : 0.1–30 W Frequency range : 100–300 MHz SWR : Less than 1.2 : 1	Frequency counter	Range : 0.1–300 MHz Accuracy : ±1 ppm or better Input level : Less than 1 mW
Modulation Analyzer	Frequency range : 30–300 MHz Measuring range : 0 to ±10 kHz	Standard signal generator (SSG)	Frequency range : 0.1–300 MHz Output level : –20 dBμ to 90 dBμ (–127 to –17 dBm)
AC millivoltmeter	Measuring range : 10 mV to 10 V		
Oscilloscope	Frequency range : DC–20 MHz Measuring range : 0.01–20 V	Attenuator	Attenuation : 40 dB Capacity : More than 30 W
Audio generator (AG)	Frequency range : 300–3000 Hz Output level : 1–500 mV	External speaker	Input impedance : 4 Ω Capacity : More than 10 W

■ CONNECTION

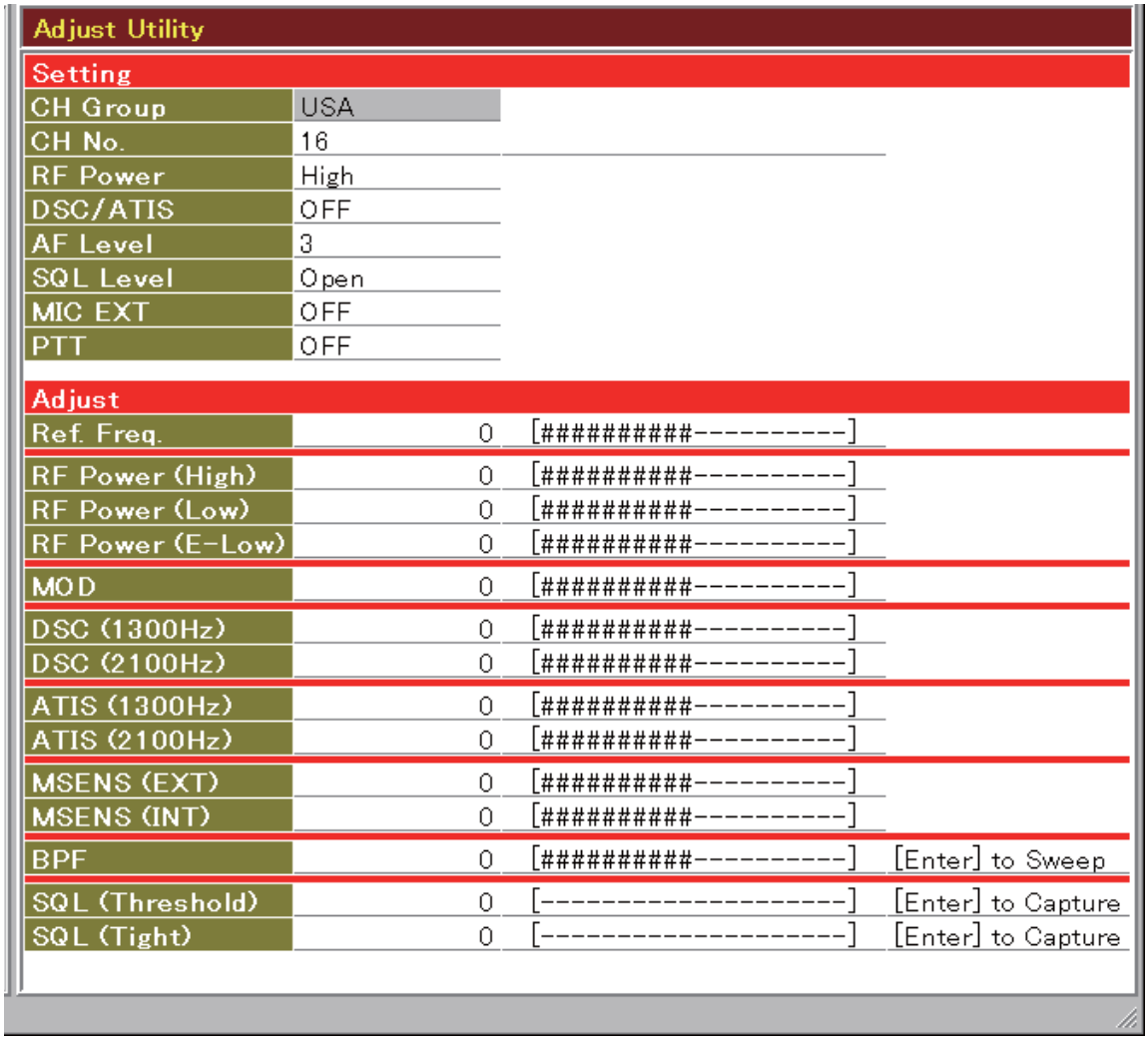


■ ADJUSTMENT FREQUENCY FOR THE SQUELCH ADJUSTMENT

Before starting the adjustments, use the cloning software to Clone the adjustment frequency.

- CH116 : 163.425 MHz
- WX10 : 163.275 MHz

■ ADJUSTMENT UTILITY

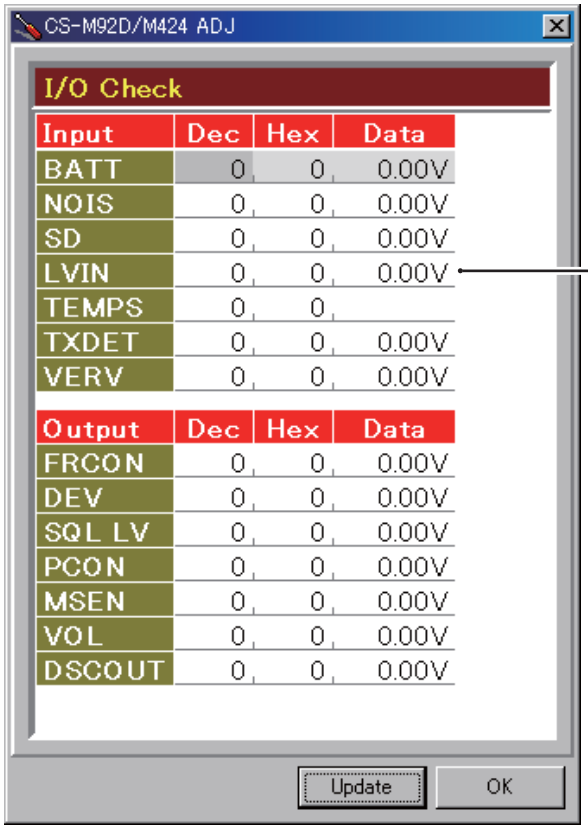


2 FREQUENCY ADJUSTMENTS

Select an adjustment item using [↑] / [↓], and then set to the specified value using [←] / [→] on the connected PC's keyboard.

ADJUSTMENT		TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
PLL LOCK VOLTAGE (VERIFICATION)	1	• Channel : 16 • Receiving	1) Connect an RF power meter (or a dummy load) to the antenna connector. 2) Verify that the lock voltage is in the specified range on the "I/O check window" (see the illust below).	**[LVIN] (I/O check window)**	2.0 V ±0.5 V (Verify)
	2	• Channel : 16 • TX power : Low • Transmitting			1.9 V ±0.5 V (Verify)
REFERENCE FREQUENCY	1	• Channel : 16 • TX power : Low • Transmitting	1) Connect an RF power meter (or a dummy load) to the antenna connector. 2) Loose couple a frequency counter to the antenna connector. 3) Adjust the TX frequency.	**[Ref. Freq.]**	156.8000 MHz (±100 Hz)

• I/O Check window



Lock voltage is displayed here.

(The values shown above are exsample only.
Each transceiver has own values.)

3 RECEIVE ADJUSTMENTS

Select an adjustment item using [↑] / [↓], and then set to the specified value using [←] / [→] on the connected PC's keyboard.

ADJUSTMENT		TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
SQUELCH -Threshold-	1	• Channel : CH116* WX10** • Receiving	• Connect a signal genelator to the antenna connector, and then set it as shown below. Frequency : 163.425 MHz† 163.275 MHz* Modulation : 1 kHz Deviation : ±3.0 kHz Level : The RF level where the SINAD is 25 dB† –12.0 dBμ (–119 dBm)*	**[SQL (threshold)]**	Push **[Enter]**. (Automatic adjustment)
-Tight-	2		• Set the SSG as shown below. Level : 3.5 dBμ (–103.5 dBm)† –2.5 dBμ (–109.5 dBm)*	**[SQL (tight)]**	

†; For all models except [USA] *; For only [USA] versions.

4 TRANSMIT ADJUSTMENTS

Select an adjustment item using [↑] / [↓], and then set to the specified value using [←] / [→] on the connected PC's keyboard.

ADJUSTMENT		TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
TX POWER -High power-	1	• Channel : 16 • TX power : High • Transmitting	1) Set the power supply voltage to 13.8 V. 2) Connect an RF power meter to the antenna connector. 3) Adjust the TX power.	**[Power (High)]**	22.5 W
-Low power-	2	• Channel : 16 • TX power : Low • Transmitting		**[Power (Low)]**	0.75 W
DEVIATION	1	• Channel : 16 • TX power : Low • Transmitting	1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it as show below. HPF : OFF LPF : 20 kHz De-emphasis : OFF Detector : (P±P)/2 2) Connect an audio generator (output impedance=600 Ω) to the "AF/MIC" line of [CMD-MIC], and then set it as shown below. Frequency : 1 kHz Waveform : Sine wave Level : 280 mVrms	**[MOD]**	±4.35 ±0.05 kHz
MODULATION SENSITIVITY	1	• Channel : 16 • TX power : Low • Transmitting	• Set the audio generator as below. Level : 28 mVrms	**[MSENS (EXT)]**	±3.0 ±0.2 kHz

PARTS LIST

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1150002470	IC RA33H1516M1-225		
IC2	1110006670	S.IC NJM2730F-TE1-#ZZZB	T	73.9/48.1
IC101	1130016080	S.IC GP214D <SEI>	T	65.9/16.0
IC201	1110007320	S.IC NJM2591V-TE1-#ZZZB	T	91.4/14.3
IC202	1110006490	S.IC LMV321IDCKR	T	97.0/18.6
IC301	1110007320	S.IC NJM2591V-TE1-#ZZZB	T	111.2/14.3
IC502	1130011770	S.IC CD4066BPWR	B	32.0/28.3
IC503	1130011770	S.IC CD4066BPWR	B	54.0/20.3
IC504	1130011770	S.IC CD4066BPWR	B	74.5/10.3
IC505	1130007021	S.IC TC7S66FU(TE85LF)	B	74.2/16.7
IC506	1110006470	S.IC LMV324IPWR	B	63.7/10.3
IC511	1180003480	S.REG NJU7772F33-TE1-#ZZZB	B	8.2/46.4
IC512	1180002781	REG KIA7805API-U/PF		
IC513	1110006470	S.IC LMV324IPWR	B	28.0/15.3
IC514	1190001350	S.IC M62364FP 600D	T	44.7/28.7
IC515	1110006740	S.IC LMV358IPWR	T	43.7/21.1
IC701	1110007900	IC LA4625-E		
IC702	1110006740	S.IC LMV358IPWR	B	15.5/16.2
IC703	1130007021	S.IC TC7S66FU(TE85LF)	B	12.0/14.3
IC704	1130007021	S.IC TC7S66FU(TE85LF)	B	18.2/11.0
IC801	1130011760	S.IC CD4094BPWR	B	46.5/20.3
IC802	1130011760	S.IC CD4094BPWR	B	39.0/20.3
IC901	1130009981	S.IC TC7W53FK(TE85LF)	T	52.5/21.5
IC902	1190003240	S.IC LC70301W-UIC-H	B	51.9/36.1
IC903	1180003820	S.REG NJM2847F3-011-TE1-#HZZH	B	37.7/34.9
IC904	1130009981	S.IC TC7W53FK(TE85LF)	T	57.5/25.3
IC905	1110006490	S.IC LMV321IDCKR	T	60.0/26.2
Q9	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	90.1/31.1
Q10	1510001090	S.TRA KTA2015Y-RTK/P	B	62.6/48.6
Q11	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	60.2/48.6
Q12	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	60.2/46.1
Q13	1530002881	S.TRA 2SC4226-T1 Y24 (R24)	T	65.1/46.9
Q14	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	71.0/49.3
Q15	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	76.8/46.1
Q21	1520000840	S.TRA KTA1664Y-RTF/P	B	105.0/29.6
Q22	1530003900	S.TRA KTC4075 BL-RTK/P	B	106.5/25.2
Q23	1510001090	S.TRA KTA2015Y-RTK/P	B	106.0/19.5
Q24	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	102.3/17.5
Q201	1580000751	S.FET 3SK294(TE85LF)	T	120.9/44.7
Q202	1580000731	S.FET 3SK293(TE85LF)	T	116.7/31.8
Q203	1530003950	S.TRA KTC4080 Y-RTK/P	T	93.6/20.3
Q302	1580000731	S.FET 3SK293(TE85LF)	B	127.1/30.0
Q303	1530003950	S.TRA KTC4080 Y-RTK/P	B	115.2/16.3
Q401	1580000751	S.FET 3SK294(TE85LF)	T	123.2/12.3
Q402	1580000731	S.FET 3SK293(TE85LF)	T	129.3/22.0
Q501	1520000380	TRA 2SB1143 S		
Q502	1590003800	S.TRA KTC811U-GR-RTK/P	B	9.7/51.7
Q503	1560000541	S.FET 2SK880-Y(T5RICOMF)	T	78.2/17.8
Q504	1590004050	S.TRA LDTA144EET1G <SLVJ>	B	28.4/23.7
Q505	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	28.1/26.4
Q506	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	78.3/10.8
Q511	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	9.7/41.4
Q512	1590004710	S.FET TPC6111(TE85LF)	B	8.2/38.2
Q701	1530003900	S.TRA KTC4075 BL-RTK/P	B	82.8/13.1
Q702	1530003900	S.TRA KTC4075 BL-RTK/P	B	82.8/5.4
D7	1750002780	S.DIO HVD144AKRF-E	B	68.2/35.7
D8	1750002780	S.DIO HVD144AKRF-E	B	70.7/33.2
D11	1750002880	S.DIO DB2J31000L	T	78.6/49.6
D12	1790000691	S.DIO HSM88ASRTR-E	T	81.2/50.3
D13	1790000691	S.DIO HSM88ASRTR-E	T	83.3/47.0
D14	1750002060	S.DIO RN752TE-21	T	98.0/51.7
D16	1750002060	S.DIO RN752TE-21	T	110.3/47.0
D18	1790000691	S.DIO HSM88ASRTR-E	T	116.8/47.7
D19	1750002780	S.DIO HVD144AKRF-E [USA]	T	104.1/45.1
	1750001910	S.DIO HVD144AKRF-E [USA-01]		
	1750001910	S.DIO HVD144AKRF-E [USA-02]		
D21	1750000771	S.VAR HVC376BTRF-E	T	62.8/5.2
D22	1750001810	S.DIO L1SS400T1G <SLVJ>	T	60.4/15.7
D501	1790001990	S.VAR EZJP0V080DA	T	43.5/43.4
D502	1790001990	S.VAR EZJP0V080DA	T	41.2/41.4
D503	1790001990	S.VAR EZJP0V080DA	T	39.6/52.6
D504	1790001990	S.VAR EZJP0V080DA	T	42.8/53.5
D601	1790000700	DIO DSA3A1		
FI201	2040002060	S.SAW HDF160F SMD-3 <SEI>	T	123.1/37.7
FI202	2030000930	S.MON 21L715A3(IMD) 21.7 MHz (FL-450)	T	106.1/27.3
FI203	2030000940	S.MON 21L715A3 21.7 MHz (FL-451)	T	97.3/27.3
FI204	2020002480	S.CER LTWC450E1 <JJE>	T	80.5/8.2
FI302	2030000950	S.MON 30L715A(IMD) 30.875 MHz (FL-452)	B	123.0/22.0
FI303	2030000960	S.MON 30L715A 30.875 MHz (FL-453)	B	113.8/22.0
FI304	2020002480	S.CER LTWC450E1 <JJE>	T	101.7/8.2
X101	6050013300	S.XTA CR-921(SX-53S 21.25 MHz) <SKD>	T	65.0/10.1
X201	6070000310	S.DIS JTBM450CX70 <JJE>	T	90.8/5.6
X301	6070000310	S.DIS JTBM450CX70 <JJE>	T	110.4/5.6
X302	6050013310	S.XTA CR-922(SX-32S 30.425 MHz) <SKD>	T	105.3/17.8

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
X401	6050013280	S.XTA CR-923 DSB321SCL 41.883333 MHz	T	118.0/10.9
X901	6060000880	S.CER CSTCE8M19G55	B	61.6/36.7
L6	6200013760	S.COI MLK1005S82NJT	T	73.7/17.9
L11	6200013750	S.COI MLK1005SR10JT	T	64.4/49.0
L19	6200010770	S.COI C2520C-R68G-A	T	92.4/45.2
L20	6200014320	S.COI 0.80-3.0-5TR 41.0N <COMO>	T	90.3/51.7
L21	6200014330	S.COI 0.80-2.7-5TR 35.0N <COMO>	T	111.3/54.2
L22	6200014330	S.COI 0.80-2.7-5TR 35.0N <COMO>	T	118.7/56.4
L23	6200012700	S.COI 0.50-2.0-6TL 35.0N <COMO>	T	104.4/49.9
L24	6200011210	S.COI C2012C-1R0J-A [USA]	T	101.5/44.6
	6200011210	S.COI C2012C-1R0J-A [USA-01]		
	6200011210	S.COI C2012C-1R0J-A [USA-02]		
L201	6200009920	S.COI C2012C-R10G-A	T	116.0/44.9
L202	6200010320	S.COI C2012C-R15G-A	T	123.3/44.2
L203	6200011680	S.COI LQW18ANR12G00D	T	115.4/34.8
L204	6200011200	S.COI C2012C-R82J-A	T	115.2/28.4
L206	6200013750	S.COI MLK1005SR10JT	T	112.5/33.0
L207	6200009620	S.COI MLG1608B 68NJ-T	T	109.8/34.7
L211	6200009141	S.COI NLV25T-6R8J	T	84.3/17.0
L301	6200009920	S.COI C2012C-R10G-A	B	129.4/43.7
L302	6200009920	S.COI C2012C-R10G-A	B	129.4/39.4
L303	6200010330	S.COI C2012C-R18G-A	B	129.4/34.1
L304	6200007360	S.COI ELJND R47J	B	123.9/28.6
L305	6200013780	S.COI MLK1005S56NJT	B	128.9/26.9
L306	6200013780	S.COI MLK1005S56NJT	B	128.9/25.3
L401	6200010910	S.COI LQW18AN56NG00D	T	125.4/12.2
L402	6200010910	S.COI LQW18AN56NG00D	T	130.3/11.8
L403	6200010910	S.COI LQW18AN56NG00D	T	130.3/16.6
L404	6200009250	S.COI LQW18ANR22G00D (LQW1608AR22G00)	T	127.1/22.0
L901	6200005041	S.COI NLV25T-220J	B	41.0/37.4
L902	6200002861	S.COI NLV25T-4R7J	B	41.0/32.4
L903	6200002861	S.COI NLV25T-4R7J	B	41.0/34.9
R1	7030010040	S.RES ERJ2GEJ-JPW	T	71.9/16.8
R2	7030008370	S.RES ERJ2GEJ 561 X (560)	T	73.1/16.4
R3	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	78.3/18.9
R4	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	76.6/16.5
R35	7030007270	S.RES ERJ2GEJ 151 X (150)	B	70.7/28.7
R36	7030004980	S.RES ERJ2GEJ 101 X (100)	T	71.5/18.3
R51	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	62.4/46.4
R52	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	64.4/48.0
R53	7030005000	S.RES ERJ2GEJ 471 X (470)	B	60.5/44.1
R61	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	67.2/35.5
R62	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	69.7/47.1
R63	7030010040	S.RES ERJ2GEJ-JPW	T	69.2/45.9
R66	7030005530	S.RES ERJ2GEJ 100 X (10)	T	64.4/50.7
R67	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	65.3/49.0
R68	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	67.5/46.8
R69	7030004980	S.RES ERJ2GEJ 101 X (100)	T	68.0/49.0
R70	7030010040	S.RES ERJ2GEJ-JPW	T	63.0/49.0
R71	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	86.0/51.8
R72	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	84.4/51.8
R73	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	91.9/48.0
R74	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	90.2/48.0
R75	7030007240	S.RES ERJ12YJ680U (68)	T	87.5/43.9
R76	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	80.3/47.6
R78	7030007280	S.RES ERJ2GEJ 331 X (330)	T	77.2/48.1
R79	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	76.9/49.4
R80	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	76.4/51.2
R82	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	74.6/51.2
R83	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	74.6/45.8
R84	7030007250	S.RES ERJ2GEJ 220 X (22)	T	72.9/45.8
R87	7030005000	S.RES ERJ2GEJ 471 X (470)	T	72.9/51.2
R88	7030010040	S.RES ERJ2GEJ-JPW	T	71.2/51.2
R91	7030005080	S.RES ERJ2GEJ 823 X (82K)	T	115.5/62.0
R96	7030009200	S.RES ERJ2GEJ 390 X (39) [USA]	T	107.2/44.4
	7030009200	S.RES ERJ2GEJ 390 X (39) [USA-01]		
	7030009200	S.RES ERJ2GEJ 390 X (39) [USA-02]		
R97	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA]	T	98.9/43.8
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA-01]		
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA-02]		
R98	7030009280	S.RES ERJ2GEJ 391 X [UK]	T	111.9/44.3
	7030009280	S.RES ERJ2GEJ 391 X [EUR]		
	7030009280	S.RES ERJ2GEJ 391 X [HOL]		
	7030009280	S.RES ERJ2GEJ 391 X [FRG]		
	7030009280	S.RES ERJ2GEJ 391 X [UK-01]		
	7030009280	S.RES ERJ2GEJ 391 X [EUR-01]		
	7030009280	S.RES ERJ2GEJ 391 X [HOL-01]		
	7030009280	S.RES ERJ2GEJ 391 X [FRG-01]		
	7030009280	S.RES ERJ2GEJ 391 X [EUR-02]		

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R99	7030010040	S.RES ERJ2GEJ-JPW [USA]	T	112.4/43.0
	7030010430	S.RES ERJ2GEJ 120 X (12) [UK]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [EUR]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [HOL]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [FRG]		
	7030010040	S.RES ERJ2GEJ-JPW [USA-01]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [UK-01]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [EUR-01]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [HOL-01]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [FRG-01]		
	7030010040	S.RES ERJ2GEJ-JPW [USA-02]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [EUR-02]		
R100	7030009280	S.RES ERJ2GEJ 391 X [UK]	T	112.9/44.3
	7030009280	S.RES ERJ2GEJ 391 X [EUR]		
	7030009280	S.RES ERJ2GEJ 391 X [HOL]		
	7030009280	S.RES ERJ2GEJ 391 X [FRG]		
	7030009280	S.RES ERJ2GEJ 391 X [UK-01]		
	7030009280	S.RES ERJ2GEJ 391 X [EUR-01]		
	7030009280	S.RES ERJ2GEJ 391 X [HOL-01]		
	7030009280	S.RES ERJ2GEJ 391 X [FRG-01]		
	7030009280	S.RES ERJ2GEJ 391 X [EUR-02]		
R101	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	104.7/25.7
R102	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	104.3/24.3
R103	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	104.0/19.6
R104	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	104.0/17.9
R116	7410001150	S.ARR EXB28V471JX	T	57.9/14.8
R117	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	69.8/11.8
R118	7030010040	S.RES ERJ2GEJ-JPW	T	68.5/12.2
R119	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	60.9/8.7
R120	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	61.3/10.1
R201	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	119.0/44.1
R202	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	119.0/46.9
R203	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	121.7/42.7
R204	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	120.8/42.7
R205	7030005710	S.RES ERJ2GEJ 121 X (120)	T	126.0/46.5
R206	7030004990	S.RES ERJ2GEJ 221 X (220)	T	125.8/44.5
R207	7030005580	S.RES ERJ2GEJ 560 X (56)	T	121.0/46.9
R211	7030008300	S.RES ERJ2GEJ 184 X (180K)	T	118.9/31.7
R212	7030007350	S.RES ERJ2GEJ 393 X (39K)	T	118.9/32.6
R213	7030008300	S.RES ERJ2GEJ 184 X (180K)	T	114.8/31.4
R214	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	114.3/33.0
R221	7030005530	S.RES ERJ2GEJ 100 X (10)	T	119.9/28.1
R222	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA]	T	111.8/28.4
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [UK]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [EUR]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [HOL]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [FRG]		
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA-01]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [UK-01]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [EUR-01]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [HOL-01]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [FRG-01]		
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA-02]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [EUR-02]		
R223	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	T	110.9/26.5
R224	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	93.1/23.9
R225	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	93.1/22.1
R226	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	94.9/22.1
R227	7030004990	S.RES ERJ2GEJ 221 X (220)	T	93.7/18.5
R229	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	107.2/33.5
R231	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	92.8/10.1
R232	7030005000	S.RES ERJ2GEJ 471 X (470)	T	94.2/9.7
R233	7030004970	S.RES ERJ2GEJ 470 X (47)	T	88.6/18.8
R234	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	88.2/17.6
R235	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	97.3/16.6
R236	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	99.7/18.1
R237	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	98.8/18.1
R238	7030004980	S.RES ERJ2GEJ 101 X (100)	T	100.6/18.1
R239	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	101.5/18.1
R242	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	71.5/12.7
R251	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	86.4/12.0
R252	7030009270	S.RES ERJ2GEJ 821 X (820)	T	86.8/8.9
R253	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	85.9/8.9
R256	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	75.9/7.0
R257	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	75.9/8.9
R261	7030003860	S.RES ERJ3GE JPW V	T	127.9/40.8
R262	7030003860	S.RES ERJ3GE JPW V	T	127.9/39.3
R263	7030003860	S.RES ERJ3GE JPW V	T	127.9/36.8
R264	7030003860	S.RES ERJ3GE JPW V	T	124.4/31.4
R301	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	127.2/34.0
R302	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	127.2/32.2
R303	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	128.9/28.6
R304	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	127.5/28.2
R305	7030005530	S.RES ERJ2GEJ 100 X (10)	B	124.7/33.6
R306	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	124.6/27.2
R311	7030005010	S.RES ERJ2GEJ 681 X (680)	B	126.0/25.8
R312	7030005010	S.RES ERJ2GEJ 681 X (680)	B	111.2/17.6
R313	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	113.4/16.3
R314	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	118.8/16.3
R315	7030007280	S.RES ERJ2GEJ 331 X (330)	B	116.6/14.8
R321	7030004970	S.RES ERJ2GEJ 470 X (47)	T	113.0/18.0
R322	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	112.5/10.1
R323	7030005000	S.RES ERJ2GEJ 471 X (470)	T	113.8/9.7
R324	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	110.0/18.0
R401	7030004970	S.RES ERJ2GEJ 470 X (47)	T	119.3/13.0
R402	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	120.9/13.9
R403	7030006610	S.RES ERJ2GEJ 394 X (390K)	T	122.2/14.4
R404	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	120.9/10.3
R405	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	123.2/10.3
R406	7030004980	S.RES ERJ2GEJ 101 X (100)	T	125.8/14.4
R407	7030004970	S.RES ERJ2GEJ 470 X (47)	T	123.1/14.4
R408	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	120.9/11.2
R411	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	128.3/18.6
R412	7030006610	S.RES ERJ2GEJ 394 X (390K)	T	129.8/19.5
R413	7030005720	S.RES ERJ2GEJ 563 X (56K)	T	131.2/21.6

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REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R414	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	129.7/24.7
R415	7030005530	S.RES ERJ2GEJ 100 X (10)	T	124.9/19.8
R416	7030004970	S.RES ERJ2GEJ 470 X (47)	T	128.5/19.8
R417	7030005530	S.RES ERJ2GEJ 100 X (10)	T	125.3/21.0
R501	7030012300	S.RES ERJ2RKF 1502X (15K)	B	9.0/49.8
R502	7030011660	S.RES ERJ2RKF 1002 (10K)	B	10.7/49.8
R503	7030011660	S.RES ERJ2RKF 1002 (10K)	B	12.1/50.8
R504	7030007280	S.RES ERJ2GEJ 331 X (330)	B	12.1/52.6
R505	7030007280	S.RES ERJ2GEJ 331 X (330)	B	12.1/51.7
R506	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	10.7/48.9
R511	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	42.2/43.6
R512	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	37.7/43.6
R513	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	41.2/43.6
R514	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	40.7/51.0
R515	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	41.7/51.0
R517	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	77.8/16.0
R521	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	30.9/33.5
R522	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	31.8/33.5
R523	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	30.0/33.5
R524	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	34.3/23.0
R525	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	32.5/23.0
R526	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	57.5/6.5
R527	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	34.4/34.0
R528	7030005530	S.RES ERJ2GEJ 100 X (10)	B	34.4/34.9
R529	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	65.4/4.7
R530	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	65.4/5.6
R531	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	28.7/30.8
R532	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	27.8/30.8
R533	7030005530	S.RES ERJ2GEJ 100 X (10)	B	67.5/7.1
R535	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	33.4/23.0
R537	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	30.0/23.0
R539	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	53.0/25.1
R540	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	55.9/15.6
R541	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	57.8/21.4
R544	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	52.8/14.7
R545	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	50.7/23.9
R547	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	71.4/15.1
R548	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	78.1/9.1
R549	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	72.2/5.7
R550	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	60.1/8.5
R551	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	58.7/5.4
R552	7030005530	S.RES ERJ2GEJ 100 X (10)	B	60.3/4.5
R553	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	62.0/4.5
R554	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	62.0/5.6
R555	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	59.5/11.5
R556	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	60.4/11.5
R557	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	60.4/13.2
R558	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	60.4/14.9
R559	7030005530	S.RES ERJ2GEJ 100 X (10)	B	59.5/13.2
R560	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	59.5/14.9
R561	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	B	58.6/13.2
R562	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	63.4/16.9
R563	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	61.7/16.9
R564	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	61.7/16.0
R565	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	67.0/11.2
R566	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	67.0/12.9
R567	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	71.2/11.7
R568	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	63.8/19.1
R569	7030010040	S.RES ERJ2GEJ-JPW	B	60.3/5.4
R571	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	70.5/17.8
R581	7030005530	S.RES ERJ2GEJ 100 X (10)	B	50.7/19.5
R582	7030005530	S.RES ERJ2GEJ 100 X (10)	B	50.7/22.2
R583	7030005530	S.RES ERJ2GEJ 100 X (10)	B	70.5/15.1
R584	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	69.6/15.1
R585	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	71.8/16.4
R601	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	10.4/39.5
R602	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	10.4/37.8
R611	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	24.9/28.8
R612	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	25.8/30.6
R621	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	24.7/21.0
R622	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	22.4/19.9
R623	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	26.9/20.0
R624	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	23.8/19.3
R625	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	23.8/17.6
R626	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	22.9/15.8
R627	7030012750	S.RES ERJ2RHD 2202X (22.0K)	B	22.0/17.6
R628	7030011120	S.RES ERJ2RHD 2702X (27.0K)	B	22.9/17.6
R629	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	22.0/15.8
R630	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	24.7/13.1
R632	7030005530	S.RES ERJ2GEJ 100 X (10)	B	27.7/10.7
R633	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	23.8/15.8
R634	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	24.7/16.7
R635	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	28.4/7.2
R641	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	31.7/17.5
R642	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	31.7/16.6
R643	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	32.5/19.3
R644	7030005530	S.RES ERJ2GEJ 100 X (10)	B	32.5/18.4
R645	7030010040	S.RES ERJ2GEJ-JPW	B	31.2/18.8
R647	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	29.8/10.7
R661	7030005000	S.RES ERJ2GEJ 471 X (470)	T	50.7/27.1
R662	7030009280	S.RES ERJ2GEJ 391 X	T	55.6/31.9
R663	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	54.2/31.5
R664	7410001150	S.ARR EXB28V471JX	T	51.3/29.2
R671	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	39.2/21.9
R672	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	38.3/21.9
R673	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	38.8/20.6
R676	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	48.1/20.7
R677	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	49.0/20.7
R678	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	48.5/19.4
R701	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	87.3/14.1
R702	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	85.5/12.4
R703	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	86.4/12.4
R704	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	85.5/10.7
R705	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	84.6/10.7
R706	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	81.9/10.7

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R707	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	81.0/12.5
R708	7030004970	S.RES ERJ2GEJ 470 X (47)	B	86.4/14.1
R711	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	88.2/6.3
R712	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	85.5/4.7
R713	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	86.4/4.7
R714	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	85.5/3.0
R715	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	84.6/3.0
R716	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	81.9/3.0
R717	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	81.0/4.7
R718	7030004970	S.RES ERJ2GEJ 470 X (47)	B	87.3/6.3
R721	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	42.5/24.7
R722	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	39.3/14.1
R723	7510001661	S.THR NTCG16 4LH 473JT	T	66.5/7.0
R724	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	65.7/5.4
R734	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	31.7/18.6
R735	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	33.0/19.0
R736	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	17.9/15.7
R737	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	17.9/14.1
R738	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	17.6/12.8
R739	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.7/11.6
R740	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	13.1/18.7
R751	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	20.5/21.8
R752	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	18.6/20.5
R753	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	15.6/21.6
R754	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	15.6/20.7
R755	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	17.3/20.7
R758	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	7.1/14.2
R761	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.4/30.5
R762	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.4/31.4
R763	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.4/23.9
R764	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.4/24.8
R901	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	50.6/19.5
R902	7410001140	S.ARR EXB28V104JX	B	47.2/44.8
R903	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	43.2/35.6
R904	7030011210	S.RES ERJ2GEJ 1R0 X (1)	B	38.1/33.1
R905	7030011210	S.RES ERJ2GEJ 1R0 X (1)	B	38.1/32.2
R906	7030005010	S.RES ERJ2GEJ 681 X (680)	B	60.1/40.6
R907	7030005000	S.RES ERJ2GEJ 471 X (470)	B	59.7/36.6
R911	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	43.7/40.2
R912	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	43.7/38.6
R921	7030011210	S.RES ERJ2GEJ 1R0 X (1)	T	60.2/22.0
R922	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	56.0/29.0
R923	7030005080	S.RES ERJ2GEJ 823 X (82K)	T	58.2/28.6
R924	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	60.3/29.0
C1	4030016930	S.CER C1005 JB 1A 104K-T	T	74.0/16.4
C2	4550007520	S.TAN F931A106MAABMA	T	72.9/14.3
C3	4550008150	S.TAN F921V224MAA	B	78.0/20.5
C10	4030016930	S.CER C1005 JB 1A 104K-T	T	71.0/15.9
C17	4030017460	S.CER C1005 JB 1H 102K-T	B	89.5/35.2
C18	4030017460	S.CER C1005 JB 1H 102K-T	T	91.9/32.0
C51	4030017610	S.CER C1005 CH 1H 090C-T	T	75.0/18.8
C52	4030017610	S.CER C1005 CH 1H 090C-T	T	72.4/18.3
C53	4030017460	S.CER C1005 JB 1H 102K-T	T	70.6/18.3
C61	4030017460	S.CER C1005 JB 1H 102K-T	B	62.4/45.5
C62	4030017460	S.CER C1005 JB 1H 102K-T	B	67.6/47.6
C63	4030020310	S.CER GRM31CB31C106KA88L	B	66.0/47.6
C71	4030017460	S.CER C1005 JB 1H 102K-T	T	83.0/43.4
C72	4030017570	S.CER C1005 CH 1H 040B-T	T	67.5/45.9
C75	4030017460	S.CER C1005 JB 1H 102K-T	T	65.7/50.4
C81	4030017420	S.CER C1005 CH 1H 470J-T	T	67.1/49.0
C82	4030017460	S.CER C1005 JB 1H 102K-T	T	66.2/49.0
C83	4030017620	S.CER C1005 CH 1H 100C-T	T	63.0/47.3
C84	4030017620	S.CER C1005 CH 1H 100C-T	T	61.7/47.7
C89	4550008160	S.TAN F931A226MAA	T	69.6/52.8
C91	4030017440	S.CER C1005 CH 1H 221J-T	T	69.1/54.6
C92	4030017460	S.CER C1005 JB 1H 102K-T	T	70.0/54.6
C93	4030017420	S.CER C1005 CH 1H 470J-T	T	73.0/53.5
C94	4030017730	S.CER C1005 JB 1H 471K-T	T	73.0/52.6
C95	4030017460	S.CER C1005 JB 1H 102K-T	T	78.4/54.8
C96	4030011600	S.CER C1608 JB 1E 104K-T	T	72.6/54.6
C97	4030020240	S.CER GRM31CR11C475KA01L	T	80.0/53.2
C98	4030020240	S.CER GRM31CR11C475KA01L	B	55.6/55.9
C111	4030020380	S.CER GRM21A5C2E180JW01D	T	88.8/56.5
C112	4030020380	S.CER GRM21A5C2E180JW01D	T	91.5/56.5
C113	4030020420	S.CER GRM21A7U2E102JW31D	T	105.8/53.8
C114	4030020380	S.CER GRM21A5C2E180JW01D	T	106.8/56.9
C115	4030004810	S.CER C2012 CH 1H 040C-T	T	110.1/58.3
C116	4030020390	S.CER GRM21A5C2E270JW01D	T	113.5/59.3
C121	4030020390	S.CER GRM21A5C2E270JW01D	T	108.3/50.6
C122	4030017400	S.CER C1005 CH 1H 220J-T	T	107.4/49.2
C125	4030017460	S.CER C1005 JB 1H 102K-T [USA]	T	105.5/44.4
	4030017460	S.CER C1005 JB 1H 102K-T [USA-01]		
	4030017460	S.CER C1005 JB 1H 102K-T [USA-02]		
C126	4030017460	S.CER C1005 JB 1H 102K-T [USA]	T	99.3/45.1
	4030017460	S.CER C1005 JB 1H 102K-T [USA-01]		
	4030017460	S.CER C1005 JB 1H 102K-T [USA-02]		
C127	4030017460	S.CER C1005 JB 1H 102K-T	T	110.6/43.0
C130	4030017460	S.CER C1005 JB 1H 102K-T	T	94.5/44.3
C131	4030017460	S.CER C1005 JB 1H 102K-T	T	82.7/51.8
C132	4030017460	S.CER C1005 JB 1H 102K-T	T	88.5/48.0
C133	4030017460	S.CER C1005 JB 1H 102K-T	T	80.3/46.0
C134	4030017460	S.CER C1005 JB 1H 102K-T	T	83.4/49.5
C135	4030017460	S.CER C1005 JB 1H 102K-T	T	81.2/47.6
C136	4030017730	S.CER C1005 JB 1H 471K-T	T	77.4/44.5
C137	4030017460	S.CER C1005 JB 1H 102K-T	T	76.3/48.1
C138	4030017460	S.CER C1005 JB 1H 102K-T	T	76.9/50.3
C140	4030016790	S.CER C1005 JB 1E 103K-T	T	71.5/47.3
C141	4030017460	S.CER C1005 JB 1H 102K-T	T	70.6/47.3
C143	4030016790	S.CER C1005 JB 1E 103K-T	T	74.6/44.9
C151	4030020310	S.CER GRM31CB31C106KA88L	B	101.4/28.2
C152	4030017460	S.CER C1005 JB 1H 102K-T	B	106.9/21.3
C153	4030019560	S.CER GRM21BB31C106KE15L	B	106.2/22.7
C160	4030016790	S.CER C1005 JB 1E 103K-T	T	61.2/17.5

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C161	4030017460	S.CER C1005 JB 1H 102K-T	T	60.3/17.5
C162	4030016930	S.CER C1005 JB 1A 104K-T	T	67.3/19.3
C163	4030017680	S.CER C1005 CH 1H 820J-T	T	69.0/10.9
C164	4030017500	S.CER C1005 CH 1H 560J-T	T	67.2/12.6
C165	4030017640	S.CER C1005 CH 1H 150J-T	T	62.9/7.6
C166	4030018070	S.CER C1005 CH 1H 300J-T	T	60.9/7.6
C167	4030016790	S.CER C1005 JB 1E 103K-T	T	60.4/10.1
C168	4030017550	S.CER C1005 CH 1H 1R5B-T	T	62.9/6.6
C201	4030017410	S.CER C1005 CH 1H 240J-T	T	113.8/43.7
C202	4030017610	S.CER C1005 CH 1H 090C-T	T	115.2/43.3
C203	4030017360	S.CER C1005 CH 1H 030B-T	T	118.6/45.4
C204	4030017460	S.CER C1005 JB 1H 102K-T	T	119.9/42.7
C205	4030017400	S.CER C1005 CH 1H 220J-T	T	120.1/46.9
C206	4030017370	S.CER C1005 CH 1H 3R5B-T	T	124.9/44.5
C207	4030016930	S.CER C1005 JB 1A 104K-T	T	123.8/46.9
C208	4030017460	S.CER C1005 JB 1H 102K-T	T	124.7/46.9
C209	4030017400	S.CER C1005 CH 1H 220J-T	T	121.9/46.9
C210	4030017760	S.CER C1005 JB 1H 222K-T	T	122.8/46.9
C211	4030017590	S.CER C1005 CH 1H 070C-T	T	123.6/42.0
C213	4030017360	S.CER C1005 CH 1H 030B-T	T	125.3/43.1
C221	4030017360	S.CER C1005 CH 1H 030B-T	T	117.8/35.3
C222	4030017460	S.CER C1005 JB 1H 102K-T	T	117.3/34.0
C223	4030017560	S.CER C1005 CH 1H 2R5B-T	T	115.9/33.7
C224	4030017760	S.CER C1005 JB 1H 222K-T	T	119.8/30.8
C231	4030016790	S.CER C1005 JB 1E 103K-T	T	120.8/29.1
C232	4030017500	S.CER C1005 CH 1H 560J-T	T	113.6/28.4
C233	4030017550	S.CER C1005 CH 1H 1R5B-T	T	112.7/28.4
C234	4030017400	S.CER C1005 CH 1H 220J-T	T	116.8/28.4
C235	4030017460	S.CER C1005 JB 1H 102K-T	T	117.7/28.4
C236	4030016930	S.CER C1005 JB 1A 104K-T	T	118.6/28.4
C237	4030017460	S.CER C1005 JB 1H 102K-T	T	110.9/28.4
C242	4030017360	S.CER C1005 CH 1H 030B-T [USA]	T	101.4/24.0
	4030017570	S.CER C1005 CH 1H 040B-T [UK]		
	4030017570	S.CER C1005 CH 1H 040B-T [EUR]		
	4030017570	S.CER C1005 CH 1H 040B-T [HOL]		
	4030017570	S.CER C1005 CH 1H 040B-T [FRG]		
	4030017360	S.CER C1005 CH 1H 030B-T [USA-01]		
	4030017570	S.CER C1005 CH 1H 040B-T [UK-01]		
	4030017570	S.CER C1005 CH 1H 040B-T [EUR-01]		
	4030017570	S.CER C1005 CH 1H 040B-T [HOL-01]		
	4030017570	S.CER C1005 CH 1H 040B-T [FRG-01]		
	4030017360	S.CER C1005 CH 1H 030B-T [USA-02]		
	4030017570	S.CER C1005 CH 1H 040B-T [EUR-02]		
C245	4030017460	S.CER C1005 JB 1H 102K-T	T	93.1/23.0
C251	4030017640	S.CER C1005 CH 1H 150J-T	T	94.9/23.0
C252	4030016790	S.CER C1005 JB 1E 103K-T	T	92.1/18.5
C253	4030017460	S.CER C1005 JB 1H 102K-T	T	92.1/17.6
C254	4030016790	S.CER C1005 JB 1E 103K-T	T	93.7/17.6
C262	4030017580	S.CER C1005 CH 1H 060C-T	T	111.6/33.3
C264	4030017460	S.CER C1005 JB 1H 102K-T	T	107.6/34.7
C271	4030017420	S.CER C1005 CH 1H 470J-T	T	92.8/11.0
C272	4030018910	S.CER C1608 JB 0J 475K-T	T	89.7/10.8
C273	4030016790	S.CER C1005 JB 1E 103K-T	T	91.5/10.5
C274	4030018890	S.CER C1005 JB 0J 224K-T	T	97.3/15.7
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	94.6/11.0
C276	4030017460	S.CER C1005 JB 1H 102K-T	T	95.1/9.7
C281	4030017440	S.CER C1005 CH 1H 221J-T	T	86.8/10.6
C282	4030017440	S.CER C1005 CH 1H 221J-T	T	85.9/10.6
C283	4030017400	S.CER C1005 CH 1H 220J-T	T	86.4/7.6
C284	4030016930	S.CER C1005 JB 1A 104K-T	T	86.4/13.4
C285	4030016930	S.CER C1005 JB 1A 104K-T	T	86.4/14.3
C286	4030016930	S.CER C1005 JB 1A 104K-T	T	86.4/15.2
C287	4030017460	S.CER C1005 JB 1H 102K-T	T	89.9/17.6
C288	4030016930	S.CER C1005 JB 1A 104K-T	T	89.9/18.5
C289	4030016930	S.CER C1005 JB 1A 104K-T	T	95.2/18.0
C291	4030017350	S.CER C1005 CH 1H 020B-T	T	81.1/15.9
C292	4030017350	S.CER C1005 CH 1H 020B-T	T	82.0/18.0
C293	4030017460	S.CER C1005 JB 1H 102K-T	T	69.8/12.7
C301	4030017550	S.CER C1005 CH 1H 1R5B-T	B	128.1/42.0
C302	4030017360	S.CER C1005 CH 1H 030B-T	B	129.8/42.0
C303	4030017380	S.CER C1005 CH 1H 050B-T	B	129.0/41.0
C304	4030017540	S.CER C1005 CH 1H R75B-T	B	127.2/39.6
C305	4030017540	S.CER C1005 CH 1H R75B-T	B	127.2/37.9
C306	4030017560	S.CER C1005 CH 1H 2R5B-T	B	128.6/37.8
C307	4030017380	S.CER C1005 CH 1H 050B-T	B	128.6/36.9
C308	4030017340	S.CER C1005 CH 1H 010B-T	B	127.2/36.2
C311	4030017460	S.CER C1005 JB 1H 102K-T	B	128.6/32.5
C312	4030017460	S.CER C1005 JB 1H 102K-T	B	126.3/32.2
C321	4030017500	S.CER C1005 CH 1H 560J-T	B	124.7/30.0
C323	4030017400	S.CER C1005 CH 1H 220J-T	B	124.7/30.9
C324	4030017460	S.CER C1005 JB 1H 102K-T	B	124.7/31.8
C325	4030016930	S.CER C1005 JB 1A 104K-T	B	124.7/32.7
C331	4030017460	S.CER C1005 JB 1H 102K-T	B	126.0/27.5
C333	4030017610	S.CER C1005 CH 1H 090C-T	B	120.5/18.6
C336	4030017460	S.CER C1005 JB 1H 102K-T	B	112.9/17.6
C343	4030016790	S.CER C1005 JB 1E 103K-T	B	117.0/16.3
C344	4030016790	S.CER C1005 JB 1E 103K-T	B	113.9/14.8
C352	4030017390	S.CER C1005 CH 1H 180J-T	B	127.5/26.4
C362	4030018910	S.CER C1608 JB 0J 475K-T	T	109.3/10.8
C363	4030016790	S.CER C1005 JB 1E 103K-T	T	111.2/10.5
C364	4030017420	S.CER C1005 CH 1H 470J-T	T	112.5/11.0
C365	4030016930	S.CER C1005 JB 1A 104K-T	T	115.9/15.8
C366	4030016930	S.CER C1005 JB 1A 104K-T	T	116.8/15.8
C367	4030017460	S.CER C1005 JB 1H 102K-T	T	114.2/11.0
C368	4030017460	S.CER C1005 JB 1H 102K-T	T	114.7/9.7
C371	4030017390	S.CER C1005 CH 1H 180J-T	T	108.2/18.0
C372	4030017660	S.CER C1005 CH 1H 330J-T	T	109.1/18.0
C374	4030016930	S.CER C1005 JB 1A 104K-T	T	111.2/18.0
C375	4030016930	S.CER C1005 JB 1A 104K-T	T	106.2/13.9
C376	4030016930	S.CER C1005 JB 1A 104K-T	T	106.2/15.3
C377	4030016930	S.CER C1005 JB 1A 104K-T	T	106.7/12.5
C401	4030016790	S.CER C1005 JB 1E 103K-T	T	117.6/13.0
C402	4030017460	S.CER C1005 JB 1H 102K-T	T	120.9/13.0
C403	4030016930	S.CER C1005 JB 1A 104K-T	T	125.8/19.8
C404	4030017460	S.CER C1005 JB 1H 102K-T	T	122.3/10.3

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C405	4030017760	S.CER C1005 JB 1H 222K-T	T	124.0/14.4
C406	4030017410	S.CER C1005 CH 1H 240J-T	T	126.5/12.1
C407	4030017560	S.CER C1005 CH 1H 2R5B-T	T	127.4/12.1
C408	4030017760	S.CER C1005 JB 1H 222K-T	T	124.9/14.4
C411	4030017540	S.CER C1005 CH 1H R75B-T	T	128.3/12.1
C412	4030017410	S.CER C1005 CH 1H 240J-T	T	129.9/12.9
C413	4030017560	S.CER C1005 CH 1H 2R5B-T	T	129.9/13.8
C414	4030017540	S.CER C1005 CH 1H R75B-T	T	129.5/15.1
C415	4030017410	S.CER C1005 CH 1H 240J-T	T	130.8/18.6
C416	4030017340	S.CER C1005 CH 1H 010B-T	T	130.8/17.7
C417	4030017460	S.CER C1005 JB 1H 102K-T	T	129.6/18.1
C421	4030017460	S.CER C1005 JB 1H 102K-T	T	129.7/23.8
C422	4030017460	S.CER C1005 JB 1H 102K-T	T	126.7/19.8
C423	4030017460	S.CER C1005 JB 1H 102K-T	T	127.6/19.8
C424	4030017590	S.CER C1005 CH 1H 070C-T	T	128.4/24.2
C425	4030016790	S.CER C1005 JB 1E 103K-T	T	126.2/17.7
C501	4510010250	S.ELE 16 CE 22 LD	T	11.9/51.2
C502	4030017460	S.CER C1005 JB 1H 102K-T	T	44.3/50.6
C503	4030011600	S.CER C1608 JB 1E 104K-T	T	44.8/51.7
C504	4030017460	S.CER C1005 JB 1H 102K-T	T	5.9/52.8
C505	4030011600	S.CER C1608 JB 1E 104K-T	T	7.0/52.9
C506	4030017730	S.CER C1005 JB 1H 471K-T	B	42.5/53.8
C507	4030016790	S.CER C1005 JB 1E 103K-T	B	43.4/53.8
C508	4030017430	S.CER C1005 CH 1H 101J-T	T	44.3/49.7
C509	4030017730	S.CER C1005 JB 1H 471K-T	T	22.2/53.8
C510	4030016790	S.CER C1005 JB 1E 103K-T	T	23.1/53.8
C511	4030016790	S.CER C1005 JB 1E 103K-T	T	43.5/42.5
C512	4030016790	S.CER C1005 JB 1E 103K-T	T	39.6/44.0
C513	4030020250	S.CER GRM21BB11A225KA01L	T	37.7/40.0
C514	4030017460	S.CER C1005 JB 1H 102K-T	T	38.1/42.4
C516	4030017460	S.CER C1005 JB 1H 102K-T	T	39.6/53.5
C517	4030017460	S.CER C1005 JB 1H 102K-T	T	42.8/54.4
C521	4030017490	S.CER C1608 JB 1A 105K-T	B	32.9/34.0
C522	4030018890	S.CER C1005 JB 0J 224K-T	B	28.7/32.5
C523	4030018890	S.CER C1005 JB 0J 224K-T	B	28.7/29.2
C524	4030018910	S.CER C1608 JB 0J 475K-T	B	67.2/9.0
C525	4030017460	S.CER C1005 JB 1H 102K-T	B	68.3/8.7
C526	4030017460	S.CER C1005 JB 1H 102K-T	B	35.7/29.7
C528	4030017490	S.CER C1608 JB 1A 105K-T	B	64.9/3.6
C530	4030017490	S.CER C1608 JB 1A 105K-T	B	58.1/4.3
C531	4030019620	S.CER GRM188B31C225KE14D	B	59.7/6.5
C532	4030017760	S.CER C1005 JB 1H 222K-T	B	60.4/9.8
C533	4030018080	S.CER C1005 JB 1H 182K-T	B	60.1/7.6
C535	4030018890	S.CER C1005 JB 0J 224K-T	B	58.6/11.5
C536	4030017030	S.CER C1005 JB 1A 273K-T	B	58.6/14.9
C537	4030017030	S.CER C1005 JB 1A 273K-T	B	61.7/15.1
C538	4030016930	S.CER C1005 JB 1A 104K-T	B	57.7/14.9
C539	4030017490	S.CER C1608 JB 1A 105K-T	B	68.8/10.9
C541	4030017490	S.CER C1608 JB 1A 105K-T	T	63.7/20.4
C560	4030019620	S.CER GRM188B31C225KE14D	B	57.4/18.7
C571	4030016790	S.CER C1005 JB 1E 103K-T	B	77.8/12.8
C576	4030018890	S.CER C1005 JB 0J 224K-T	B	71.8/17.3
C578	4030017460	S.CER C1005 JB 1H 102K-T	B	69.6/17.1
C602	4030016790	S.CER C1005 JB 1E 103K-T	B	7.4/44.1
C603	4030016930	S.CER C1005 JB 1A 104K-T	B	7.4/43.2
C604	4030016930	S.CER C1005 JB 1A 104K-T	B	12.9/46.0
C605	4030016790	S.CER C1005 JB 1E 103K-T	B	12.9/46.9
C607	4030020310	S.CER GRM31CB31C106KA88L	B	11.0/46.0
C611	4510009920	S.ELE 16 CE 100 LH	T	12.5/44.7
C612	4030016790	S.CER C1005 JB 1E 103K-T	T	6.4/40.8
C613	4030016930	S.CER C1005 JB 1A 104K-T	T	5.5/40.8
C614	4030011600	S.CER C1608 JB 1E 104K-T	T	6.6/34.1
C615	4030016790	S.CER C1005 JB 1E 103K-T	T	7.7/34.1
C616	4510009920	S.ELE 16 CE 100 LH	T	12.5/37.6
C620	4030017460	S.CER C1005 JB 1H 102K-T	B	9.7/43.0
C621	4510010300	S.ELE 16 CE 470 AX	T	28.0/53.0
C622	4030011600	S.CER C1608 JB 1E 104K-T	T	20.6/46.1
C623	4030017440	S.CER C1005 CH 1H 221J-T	T	19.5/46.6
C624	4030017460	S.CER C1005 JB 1H 102K-T	T	18.6/46.6
C625	4030017430	S.CER C1005 CH 1H 101J-T	B	45.1/52.0
C626	4030017420	S.CER C1005 CH 1H 470J-T	B	44.2/52.0
C627	4030017730	S.CER C1005 JB 1H 471K-T	B	51.1/46.6
C628	4030017400	S.CER C1005 CH 1H 220J-T	B	50.2/46.6
C629	4030017400	S.CER C1005 CH 1H 220J-T	B	57.2/56.0
C630	4030017430	S.CER C1005 CH 1H 101J-T	B	58.1/56.0
C631	4030017730	S.CER C1005 JB 1H 471K-T	B	13.7/39.1
C636	4030016790	S.CER C1005 JB 1E 103K-T	T	30.4/21.3
C637	4510010250	S.ELE 16 CE 22 LD	T	28.7/26.5
C640	4030017460	S.CER C1005 JB 1H 102K-T	B	25.6/21.0
C641	4030017510	S.CER C1005 CH 1H 680J-T	B	27.4/20.9
C642	4030018920	S.CER C1005 JB 1H 392K-T	B	24.7/19.3
C643	4030017460	S.CER C1005 JB 1H 102K-T	B	22.4/19.0
C644	4030016790	S.CER C1005 JB 1E 103K-T	B	26.4/10.3
C649	4030017460	S.CER C1005 JB 1H 102K-T	B	27.7/9.8
C650	4030018910	S.CER C1608 JB 0J 475K-T	B	27.4/8.7
C651	4030016790	S.CER C1005 JB 1E 103K-T	B	27.5/7.2
C662	4030020270	S.CER GRM188B11A105KA61D	B	33.9/16.7
C663	4030017460	S.CER C1005 JB 1H 102K-T	B	29.0/20.4
C664	4030016790	S.CER C1005 JB 1E 103K-T	T	27.0/20.1
C669	4030017460	S.CER C1005 JB 1H 102K-T	B	29.8/8.0
C681	4030016790	S.CER C1005 JB 1E 103K-T	T	52.0/27.4
C682	4030018910	S.CER C1608 JB 0J 475K-T	T	51.6/25.6
C683	4030016790	S.CER C1005 JB 1E 103K-T	T	39.1/30.4
C686	4030019460	S.CER C1608 JB 0J 106M-T	T	57.1/31.0
C701	4030016930	S.CER C1005 JB 1A 104K-T	B	87.3/12.4
C702	4030017790	S.CER C1005 JB 1H 682K-T	B	86.4/10.7
C703	4030016970	S.CER C1005 JB 1E 223K-T	B	82.8/10.7
C704	4030017760	S.CER C1005 JB 1H 222K-T	B	83.7/10.7
C705	4030017790	S.CER C1005 JB 1H 682K-T	B	81.0/10.7
C706	4030016790	S.CER C1005 JB 1E 103K-T	B	80.1/10.7
C707	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/14.1
C708	4030016930	S.CER C1005 JB 1A 104K-T	B	84.6/14.1
C711	4030016930	S.CER C1005 JB 1A 104K-T	B	88.7/5.1
C712	4030017790	S.CER C1005 JB 1H 682K-T	B	86.4/3.0
C713	4030016970	S.CER C1005 JB 1E 223K-T	B	82.8/3.0

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C714	4030017760	S.CER C1005 JB 1H 222K-T	B	83.7/3.0
C715	4030017790	S.CER C1005 JB 1H 682K-T	B	81.0/3.0
C716	4030016790	S.CER C1005 JB 1E 103K-T	B	80.1/4.7
C717	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/6.3
C718	4030016930	S.CER C1005 JB 1A 104K-T	B	84.6/6.3
C721	4030017680	S.CER C1005 CH 1H 820J-T	B	88.2/14.1
C722	4030016790	S.CER C1005 JB 1E 103K-T	B	89.1/6.3
C724	4030017730	S.CER C1005 JB 1H 471K-T	T	33.2/13.3
C725	4030017680	S.CER C1005 CH 1H 820J-T	T	60.0/4.8
C726	4030017460	S.CER C1005 JB 1H 102K-T	T	86.5/3.2
C727	4030017460	S.CER C1005 JB 1H 102K-T	T	38.3/14.1
C728	4030016790	S.CER C1005 JB 1E 103K-T	T	37.3/14.1
C732	4030017460	S.CER C1005 JB 1H 102K-T	T	36.7/4.5
C734	4030017440	S.CER C1005 CH 1H 221J-T	T	35.7/4.5
C742	4030011600	S.CER C1608 JB 1E 104K-T	B	19.0/14.0
C743	4030017440	S.CER C1005 CH 1H 221J-T	T	31.7/17.7
C744	4030011600	S.CER C1608 JB 1E 104K-T	B	11.2/10.8
C745	4030017460	S.CER C1005 JB 1H 102K-T	B	7.1/9.2
C746	4030017490	S.CER C1608 JB 1A 105K-T	B	18.1/18.4
C748	4030017460	S.CER C1005 JB 1H 102K-T	T	5.0/9.4
C751	4030017440	S.CER C1005 CH 1H 221J-T	B	19.6/20.5
C752	4030011600	S.CER C1608 JB 1E 104K-T	B	17.8/21.9
C753	4030011600	S.CER C1608 JB 1E 104K-T	B	9.3/12.7
C754	4030017460	S.CER C1005 JB 1H 102K-T	B	8.0/14.2
C761	4030017460	S.CER C1005 JB 1H 102K-T	B	7.1/11.8
C762	4510009920	S.ELE 16 CE 100 LH	T	11.2/13.7
C763	4030020310	S.CER GRM31CB31C106KA88L	T	5.2/15.1
C764	4030017480	S.CER C1608 JB 1A 474K-T	B	7.9/20.3
C765	4510010300	S.ELE 16 CE 470 AX	T	13.3/29.6
C766	4030011600	S.CER C1608 JB 1E 104K-T	T	6.5/28.8
C767	4030017460	S.CER C1005 JB 1H 102K-T	T	7.6/27.1
C768	4030017460	S.CER C1005 JB 1H 102K-T	T	7.6/26.2
C769	4030017460	S.CER C1005 JB 1H 102K-T	B	11.5/39.1
C770	4030011600	S.CER C1608 JB 1E 104K-T	B	12.6/39.2
C772	4030011600	S.CER C1608 JB 1E 104K-T	B	8.9/29.5
C773	4030011600	S.CER C1608 JB 1E 104K-T	B	8.9/32.3
C775	4030017440	S.CER C1005 CH 1H 221J-T	B	21.4/33.6
C776	4030017440	S.CER C1005 CH 1H 221J-T	B	21.4/32.1
C777	4030017440	S.CER C1005 CH 1H 221J-T	B	24.5/33.6
C778	4030017440	S.CER C1005 CH 1H 221J-T	B	24.5/32.1
C782	4030011600	S.CER C1608 JB 1E 104K-T	B	8.9/22.9
C783	4030011600	S.CER C1608 JB 1E 104K-T	B	8.9/25.7
C785	4030017440	S.CER C1005 CH 1H 221J-T	B	13.1/24.5
C786	4030017440	S.CER C1005 CH 1H 221J-T	B	13.8/26.8
C787	4030017440	S.CER C1005 CH 1H 221J-T	B	16.4/32.1
C788	4030017440	S.CER C1005 CH 1H 221J-T	B	18.1/32.1
C791	4030017460	S.CER C1005 JB 1H 102K-T	T	5.5/10.7
C792	4030016930	S.CER C1005 JB 1A 104K-T	T	6.4/10.7
C806	4030017460	S.CER C1005 JB 1H 102K-T	T	37.7/4.5
C811	4030017460	S.CER C1005 JB 1H 102K-T	T	40.3/14.1
C812	4030017460	S.CER C1005 JB 1H 102K-T	T	40.7/4.5
C813	4030017460	S.CER C1005 JB 1H 102K-T	T	41.7/15.3
C814	4030017460	S.CER C1005 JB 1H 102K-T	T	41.7/4.5
C816	4030017460	S.CER C1005 JB 1H 102K-T	T	42.7/4.5
C818	4030017460	S.CER C1005 JB 1H 102K-T	T	43.7/4.5
C820	4030017460	S.CER C1005 JB 1H 102K-T	T	44.7/4.5
C821	4030017460	S.CER C1005 JB 1H 102K-T	T	45.3/14.1
C823	4030017460	S.CER C1005 JB 1H 102K-T	T	46.3/14.1
C825	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/14.1
C827	4030017460	S.CER C1005 JB 1H 102K-T	T	48.3/14.1
C830	4030017400	S.CER C1005 CH 1H 220J-T	T	49.7/4.5
C832	4030017400	S.CER C1005 CH 1H 220J-T	T	50.7/4.5
C834	4030017460	S.CER C1005 JB 1H 102K-T	T	51.7/4.5
C836	4030017460	S.CER C1005 JB 1H 102K-T	T	52.7/4.5
C838	4030017460	S.CER C1005 JB 1H 102K-T	T	53.7/4.5
C841	4030017490	S.CER C1608 JB 1A 105K-T	B	40.8/25.9
C842	4030017460	S.CER C1005 JB 1H 102K-T	B	50.7/25.6
C843	4030016930	S.CER C1005 JB 1A 104K-T	B	42.3/21.4
C901	4030016930	S.CER C1005 JB 1A 104K-T	T	53.3/23.3
C902	4030017460	S.CER C1005 JB 1H 102K-T	T	51.5/19.5
C903	4030016930	S.CER C1005 JB 1A 104K-T	B	44.1/31.8
C904	4030016930	S.CER C1005 JB 1A 104K-T	B	51.0/28.2
C905	4030016930	S.CER C1005 JB 1A 104K-T	B	49.2/28.2
C906	4030016930	S.CER C1005 JB 1A 104K-T	B	43.2/31.8
C907	4030019620	S.CER GRM188B31C225KE14D	B	38.5/37.4
C908	4030016790	S.CER C1005 JB 1E 103K-T	B	36.1/37.0
C910	4030019560	S.CER GRM21BB31C106KE15L	B	41.6/29.3
C911	4550008240	S.TAN F930G476MAA	B	40.3/39.7
C912	4030016930	S.CER C1005 JB 1A 104K-T	B	59.7/34.7
C913	4030016930	S.CER C1005 JB 1A 104K-T	B	60.1/41.5
C914	4030016930	S.CER C1005 JB 1A 104K-T	B	52.1/43.9
C915	4030017770	S.CER C1005 JB 1H 332K-T	B	59.7/39.3
C916	4030017040	S.CER C1005 JB 1A 333K-T	B	61.5/40.2
C917	4030016930	S.CER C1005 JB 1A 104K-T	B	43.2/37.4
C918	4030016930	S.CER C1005 JB 1A 104K-T	B	44.1/35.6
C919	4030019560	S.CER GRM21BB31C106KE15L	B	46.6/27.8
C921	4030016930	S.CER C1005 JB 1A 104K-T	B	52.6/28.2
C922	4030016930	S.CER C1005 JB 1A 104K-T	B	59.7/33.0
C923	4030016930	S.CER C1005 JB 1A 104K-T	B	60.6/39.3
C924	4030016930	S.CER C1005 JB 1A 104K-T	B	54.6/43.9
C925	4030019560	S.CER GRM21BB31C106KE15L	B	53.6/26.8
C931	4030018920	S.CER C1005 JB 1H 392K-T	T	57.3/28.6
C932	4030018080	S.CER C1005 JB 1H 182K-T	T	59.1/28.6
C933	4030020010	S.CER C1005 CH 1H 271J-T	T	60.3/28.1
C934	4030016790	S.CER C1005 JB 1E 103K-T	T	60.2/23.3
J1	6510025142	S.CON 10FLT-SM2-TB(LF)(SN)(M)	T	40.9/47.3
J2	6510022472	S.CON 40FLT-SM2-TB(LF)(SN)(M)	T	45.0/9.3
J3	6510018971	S.CON B4B-PH-SM4-TB(LF)(SN)	B	20.7/25.8
F1	5210001160	S.FUS ERBRE3R00V	T	3.8/48.8

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
W1	7030012290	JUM	RDS2T0R0		
W2	8900014871	CAB	OPC-1332A-1(P0.5N40L100)		
W3	8900020400	CAB	OPC-2216 <TJM>		
EP401	6910016330	S.BEA	MMZ1005S 601CT-S	T	123.7/21.0
EP701	6910016330	S.BEA	MMZ1005S 601CT-S	B	8.2/10.1
EP702	6910016330	S.BEA	MMZ1005S 601CT-S	B	8.9/14.2
EP703	6910019100	S.BEA	MPZ1608S101AT	B	20.0/33.0
EP704	6910019100	S.BEA	MPZ1608S101AT	B	23.1/33.0
EP705	6910019100	S.BEA	MPZ1608S101AT	B	12.7/26.4
EP706	6910019100	S.BEA	MPZ1608S101AT	B	17.6/33.2

[LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
IC1	1140016243	S.IC	STM32F100ZET6B(FX3338A3)	B	79.0/30.0
IC2	1110006740	S.IC	LMV358IPWR	B	37.0/36.0
IC3	1130009981	S.IC	TC7W53FK(TE85LF)	B	38.5/31.8
IC4	1180003570	S.REG	NJM2830U1-33-TE1-#ZZZB	B	33.0/10.5
IC5	1130016110	S.IC	TC7WH14FK(TE85LF)	B	54.6/13.3
IC6	1130008711	S.IC	TC7SET04FU(T5LJF)	B	47.7/40.2
IC7	1130016110	S.IC	TC7WH14FK(TE85LF)	B	54.5/39.0
IC8	1170000352	S.IC	PC357N6J000F	B	127.0/36.0
IC9	1130016810	S.IC	GT24C256-2GLI-TR <MSK>	B	84.0/49.5
IC10	1110007620	S.IC	NJU7704F3-42A-TE1-#ZZZB	B	43.3/11.2
IC11	1110003650	S.IC	NJM2211M-TE1-#ZZZB	B	34.5/45.5
IC12	1130009301	S.IC	TC7SET08FU(T5LJF)	B	46.1/53.7
Q3	1590001330	S.TRA	DTA114EUA T106	B	54.9/16.9
Q4	1530004140	S.TRA	L2SC4081RT1G <SLVJ>	B	53.9/20.8
Q5	1530004140	S.TRA	L2SC4081RT1G <SLVJ>	B	50.2/36.5
Q6	1510001151	S.TRA	L2SA1576AST1G <SLVJ>	B	47.4/36.8
Q7	1560000541	S.FET	2SK880-Y(T5RICOMF)	B	53.0/35.3
Q8	1530004140	S.TRA	L2SC4081RT1G <SLVJ>	B	134.2/36.7
Q9	1590000710	S.TRA	DTC124EUA T106	B	132.2/38.9
D3	1750001810	S.DIO	L1SS400T1G <SLVJ>	B	55.9/19.6
D4	1750001810	S.DIO	L1SS400T1G <SLVJ>	B	130.5/33.2
D5	1750001180	S.DIO	KDS122 RTK/P	B	134.2/33.6
D7	1790001990	S.VAR	EZJP0V080DA	B	134.5/29.7
X1	6050012460	S.XTA	CR-834(SMD-49/7.9872 MHz) <JJE>	B	97.5/27.5
R1	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	65.3/34.8
R2	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	65.3/35.8
R3	7410001130	S.ARR	EXB28V102JX	B	49.5/30.5
R5	7030004970	S.RES	ERJ2GEJ 470 X (47)	B	61.5/22.1
R7	7030010040	S.RES	ERJ2GEJ-JPW	B	64.8/20.9
R11	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	72.0/43.3
R12	7410001230	S.ARR	EXB28V101JX	B	58.5/32.5
R16	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	82.4/43.7
R17	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	46.3/51.8
R21	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	72.3/16.7
R22	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	73.7/16.3
R23	7410001130	S.ARR	EXB28V102JX	B	58.8/26.0
R24	7410001140	S.ARR	EXB28V104JX	B	64.0/24.4
R25	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	79.1/16.7
R26	7030005600	S.RES	ERJ2GEJ 273 X (27K)	B	86.3/16.7
R27	7030007290	S.RES	ERJ2GEJ 222 X (2.2K) [USA]	B	86.9/14.7
	7030009290	S.RES	ERJ2GEJ 562 X (5.6K) [UK]		
	7030008010	S.RES	ERJ2GEJ 123 X (12K) [EUR]		
	7030009710	S.RES	ERJ2GEJ 203 X (20K) [HOL]		
	7030005060	S.RES	ERJ2GEJ 333 X (33K) [FRG]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K) [USA-01]		
	7030009290	S.RES	ERJ2GEJ 562 X (5.6K) [UK-01]		
	7030008010	S.RES	ERJ2GEJ 123 X (12K) [EUR-01]		
	7030009710	S.RES	ERJ2GEJ 203 X (20K) [HOL-01]		
	7030005060	S.RES	ERJ2GEJ 333 X (33K) [FRG-01]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K) [USA-02]		
	7030008010	S.RES	ERJ2GEJ 123 X (12K) [EUR-02]		
R28	7030011670	S.RES	ERJ2RKF 3902 (39K)	B	85.1/12.9
R29	7030012320	S.RES	ERJ2RKD 2203X (220K)	B	85.1/11.9
R34	7030004980	S.RES	ERJ2GEJ 101 X (100)	B	92.8/27.2
R51	7030005530	S.RES	ERJ2GEJ 100 X (10)	B	38.3/40.4
R52	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	108.2/27.5
R53	7030005170	S.RES	ERJ2GEJ 474 X (470K)	B	35.3/39.8
R54	7030007350	S.RES	ERJ2GEJ 393 X (39K)	B	33.7/50.4
R55	7030012740	S.RES	ERJ2RHD 1602X (16.0K)	B	35.1/50.8
R56	7030008400	S.RES	ERJ2GEJ 182 X (1.8K)	B	34.1/51.8
R57	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	31.9/50.4
R61	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	87.7/46.3
R62	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	87.7/45.3
R65	7030008010	S.RES	ERJ2GEJ 123 X (12K)	B	45.7/8.3
R66	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	39.8/12.1
R67	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	40.2/10.7
R71	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	42.5/36.0
R73	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	32.5/36.2
R74	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	35.8/33.6
R75	7030004980	S.RES	ERJ2GEJ 101 X (100)	B	34.0/32.1
R81	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	57.4/13.8
R82	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	56.9/16.9
R83	7030005530	S.RES	ERJ2GEJ 100 X (10)	B	58.1/20.9
R84	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	54.4/18.7
R85	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	52.8/13.3
R90	7030005220	S.RES	ERJ2GEJ 223 X (22K)	B	50.9/39.4
R91	7030005040	S.RES	ERJ2GEJ 472 X (4.7K)	B	49.5/39.0
R92	7030004970	S.RES	ERJ2GEJ 470 X (47)	B	48.7/35.0
R95	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	54.0/32.5
R96	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	54.0/33.5
R97	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	B	55.5/35.8
R101	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	121.7/38.3
R102	7030005040	S.RES	ERJ2GEJ 472 X (4.7K)	B	122.2/35.1
R103	7030009270	S.RES	ERJ2GEJ 821 X (820)	B	129.6/32.0
R106	7030005040	S.RES	ERJ2GEJ 472 X (4.7K)	B	136.0/34.6
R107	7030010430	S.RES	ERJ2GEJ 120 X (12)	B	132.4/35.4
R108	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	134.5/28.8
R111	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	3.7/17.5
R113	7030003520	S.RES	ERJ3GEYJ 472 V (4.7K)	B	5.7/18.0
R116	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	44.0/54.2
C1	4030016930	S.CER	C1005 JB 1A 104K-T	B	70.5/16.7
C2	4030016930	S.CER	C1005 JB 1A 104K-T	B	65.8/38.5
C3	4030016930	S.CER	C1005 JB 1A 104K-T	B	87.7/43.3
C4	4030016930	S.CER	C1005 JB 1A 104K-T	B	88.1/16.7

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C5	4030016930	S.CER C1005 JB 1A 104K-T	B	92.3/31.0
C6	4030016930	S.CER C1005 JB 1A 104K-T	B	80.5/15.0
C7	4030016930	S.CER C1005 JB 1A 104K-T	B	75.5/16.7
C8	4030016930	S.CER C1005 JB 1A 104K-T	B	65.7/26.5
C9	4030016930	S.CER C1005 JB 1A 104K-T	B	65.3/32.0
C10	4030016930	S.CER C1005 JB 1A 104K-T	B	76.0/43.3
C11	4030016930	S.CER C1005 JB 1A 104K-T	B	81.0/43.3
C12	4030016930	S.CER C1005 JB 1A 104K-T	B	92.3/36.0
C13	4030017460	S.CER C1005 JB 1H 102K-T	B	70.5/15.7
C14	4030017460	S.CER C1005 JB 1H 102K-T	B	64.8/38.5
C15	4030017460	S.CER C1005 JB 1H 102K-T	B	87.7/44.3
C16	4030017460	S.CER C1005 JB 1H 102K-T	B	88.7/15.7
C17	4030016790	S.CER C1005 JB 1E 103K-T	B	93.3/31.0
C18	4030016790	S.CER C1005 JB 1E 103K-T	B	80.5/14.0
C19	4030016790	S.CER C1005 JB 1E 103K-T	B	64.7/26.5
C20	4030016790	S.CER C1005 JB 1E 103K-T	B	76.0/44.3
C24	4030017460	S.CER C1005 JB 1H 102K-T	B	67.0/45.2
C25	4030016930	S.CER C1005 JB 1A 104K-T	B	63.8/45.2
C26	4030020300	S.CER GRM21BB31C475KA87L	B	92.8/20.9
C27	4030016790	S.CER C1005 JB 1E 103K-T	B	94.2/20.4
C31	4030016950	S.CER C1005 JB 1A 473K-T	B	85.5/15.3
C32	4030016950	S.CER C1005 JB 1A 473K-T	B	84.5/16.3
C33	4030016950	S.CER C1005 JB 1A 473K-T	B	85.1/13.9
C35	4030016950	S.CER C1005 JB 1A 473K-T	B	92.8/23.2
C36	4030016950	S.CER C1005 JB 1A 473K-T	B	92.8/24.2
C37	4030016950	S.CER C1005 JB 1A 473K-T	B	92.8/25.2
C38	4030016950	S.CER C1005 JB 1A 473K-T	B	92.8/26.2
C43	4030017410	S.CER C1005 CH 1H 240J-T	B	94.3/28.5
C44	4030017410	S.CER C1005 CH 1H 240J-T	B	94.3/26.7
C57	4030016930	S.CER C1005 JB 1A 104K-T	B	87.3/48.5
C61	4030016790	S.CER C1005 JB 1E 103K-T	B	106.8/27.1
C62	4030017760	S.CER C1005 JB 1H 222K-T	B	39.3/41.3
C63	4030019990	S.CER C1005 JB 1C 104K-T	B	40.3/41.3
C64	4030016790	S.CER C1005 JB 1E 103K-T	B	37.0/40.4
C65	4030018890	S.CER C1005 JB 0J 224K-T	B	35.3/40.8
C66	4030017760	S.CER C1005 JB 1H 222K-T	B	30.5/50.8
C67	4030016930	S.CER C1005 JB 1A 104K-T	B	29.1/50.4
C68	4030016790	S.CER C1005 JB 1E 103K-T	B	32.8/51.8
C69	4340000310	S.MYL ECHU 1C 333JX5	B	38.2/50.7
C71	4030017920	S.CER C1005 JB 1A 683K-T	B	43.0/13.3
C72	4030017480	S.CER C1608 JB 1A 474K-T	B	41.4/11.2
C74	4030017460	S.CER C1005 JB 1H 102K-T	B	44.0/9.1
C81	4030016930	S.CER C1005 JB 1A 104K-T	B	37.6/33.6
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	39.2/30.0
C83	4030019990	S.CER C1005 JB 1C 104K-T	B	34.0/33.1
C84	4030017460	S.CER C1005 JB 1H 102K-T	B	33.6/34.1
C85	4030020300	S.CER GRM21BB31C475KA87L	B	38.8/8.8
C86	4030017460	S.CER C1005 JB 1H 102K-T	B	40.3/8.9
C87	4030016790	S.CER C1005 JB 1E 103K-T	B	38.4/11.6
C88	4030020240	S.CER GRM31CR11C475KA01L	B	36.8/10.5
C89	4030017460	S.CER C1005 JB 1H 102K-T	B	41.5/33.8
C91	4030016930	S.CER C1005 JB 1A 104K-T	B	56.4/13.8
C92	4030017460	S.CER C1005 JB 1H 102K-T	B	57.1/20.0
C95	4030016790	S.CER C1005 JB 1E 103K-T	B	49.5/40.8
C96	4030016930	S.CER C1005 JB 1A 104K-T	B	55.5/34.8
C101	4030017460	S.CER C1005 JB 1H 102K-T	B	120.2/36.9
C102	4030016930	S.CER C1005 JB 1A 104K-T	B	121.2/36.9
C103	4030016790	S.CER C1005 JB 1E 103K-T	B	122.2/36.9
C104	4030017920	S.CER C1005 JB 1A 683K-T	B	131.4/32.0
C105	4030017460	S.CER C1005 JB 1H 102K-T	B	131.4/30.0
C106	4030017460	S.CER C1005 JB 1H 102K-T	B	128.2/30.6
C107	4030016930	S.CER C1005 JB 1A 104K-T	B	136.9/34.6
C108	4030017460	S.CER C1005 JB 1H 102K-T	B	134.5/27.9
C111	4030016790	S.CER C1005 JB 1E 103K-T	B	45.8/26.5
C112	4030020310	S.CER GRM31CB31C106KA88L	B	44.6/29.6
C113	4030016790	S.CER C1005 JB 1E 103K-T	B	26.3/19.4
C114	4030017460	S.CER C1005 JB 1H 102K-T	B	27.3/19.4
C115	4030017460	S.CER C1005 JB 1H 102K-T	B	24.1/26.2
C116	4030017460	S.CER C1005 JB 1H 102K-T	B	23.2/22.1
C155	4030016790	S.CER C1005 JB 1E 103K-T	B	27.7/26.9
C162	4030016930	S.CER C1005 JB 1A 104K-T	B	7.2/16.3
C165	4030017460	S.CER C1005 JB 1H 102K-T	B	16.2/15.3
C166	4030017460	S.CER C1005 JB 1H 102K-T	B	16.2/16.3
J1	6510022472	S.CON 40FLT-SM2-TB(LF)(SN)(M)	B	35.0/23.0
J4	6510018971	S.CON B4B-PH-SM4-TB(LF)(SN)	B	127.0/22.5
EP11	6910016330	S.BEA MMZ1005S 601CT-S	B	129.6/31.0

[CONNECT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C1	4030016790	S.CER C1005 JB 1E 103K-T	B	2.1/11.9
J1	6510022440	CON LTW-8MP-C NUTGASKET <LIA>		
J2	6510025142	S.CON 10FLT-SM2-TB(LF)(SN)(M)	B	4.3/15.0
EP2	6910019100	S.BEA MPZ1608S101AT	B	4.5/19.1

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[VCO UNIT]

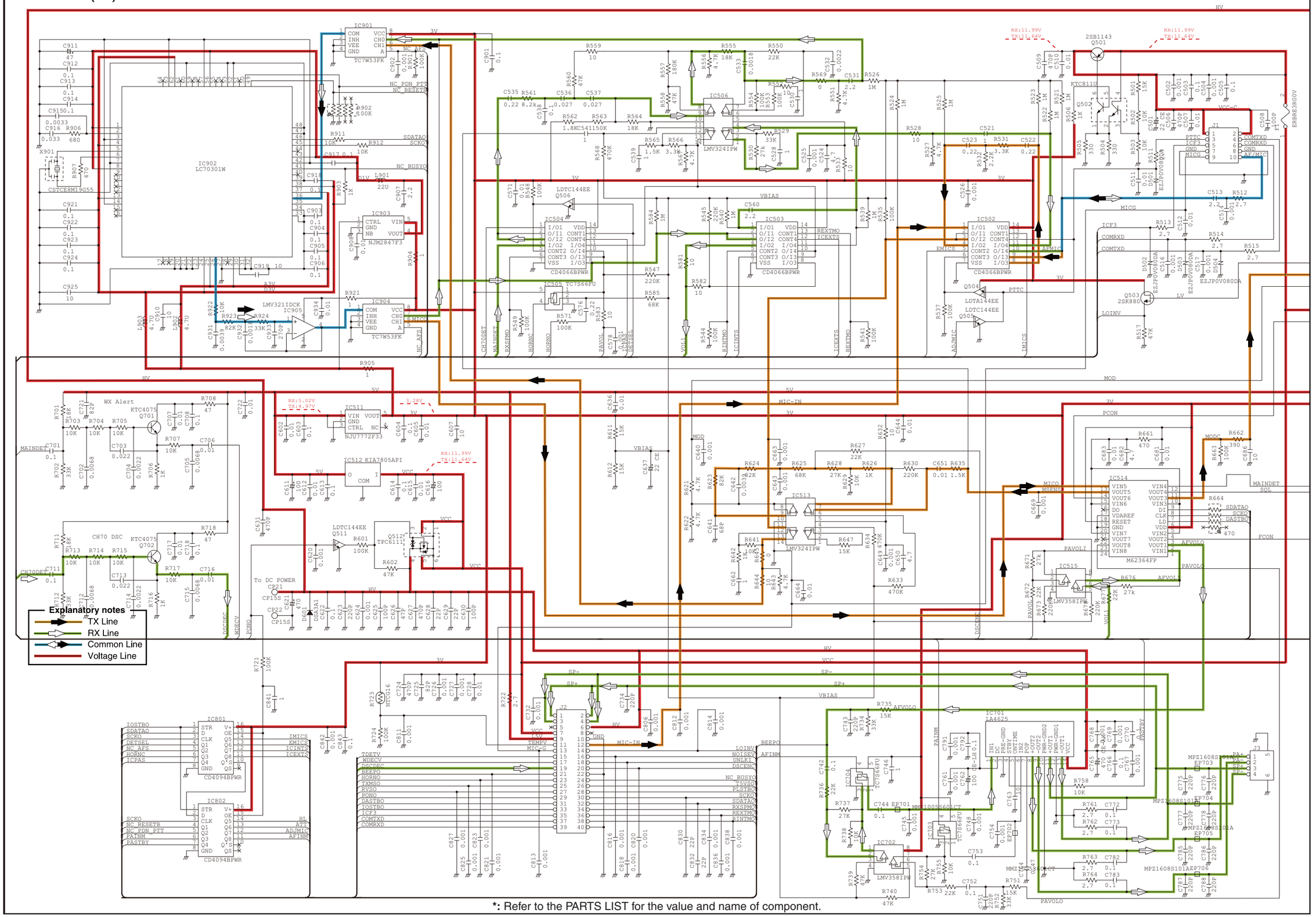
REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
Q2	1590004070	S.TRA	LDTC144EET1G <SLVJ>	T	13.4/9.3
Q3	1530002921	S.TRA	2SC4226-T1 Y25 (R25)	T	11.9/2.8
Q4	1530002921	S.TRA	2SC4226-T1 Y25 (R25)	T	18.6/2.3
Q5	1530003950	S.TRA	KTC4080 Y-RTK/P	T	7.1/6.9
Q6	1530003950	S.TRA	KTC4080 Y-RTK/P	T	4.9/2.6
Q7	1530003950	S.TRA	KTC4080 Y-RTK/P	T	5.4/11.3
Q8	1590004050	S.TRA	LDTA144EET1G <SLVJ>	T	11.4/12.5
D1	1750001790	S.DIO	1SS390	T	11.5/10.0
D2	1750001790	S.DIO	1SS390	T	13.3/7.7
D3	1750001780	S.VAR	HVB350BYPTL-E	T	14.4/5.6
L1	6200003711	S.COI	NLV25T-2R7J	T	18.2/9.2
L2	6200011410	S.COI	C2520C-82NG-A	T	17.9/5.9
L3	6200013750	S.COI	MLK1005SR10JT	T	5.7/8.3
L4	6200013750	S.COI	MLK1005SR10JT	T	3.5/4.0
L5	6200013750	S.COI	MLK1005SR10JT	T	4.0/12.7
R6	7030009320	S.RES	ERJ2GEJ 4R7 X (4.7)	T	7.5/10.8
R7	7030005120	S.RES	ERJ2GEJ 102 X (1K)	T	16.4/11.0
R8	7030005240	S.RES	ERJ2GEJ 473 X (47K)	T	16.2/9.8
R9	7030005120	S.RES	ERJ2GEJ 102 X (1K)	T	16.2/8.9
R11	7030005000	S.RES	ERJ2GEJ 471 X (470)	T	10.0/12.0
R12	7030005090	S.RES	ERJ2GEJ 104 X (100K)	T	18.5/13.7
R13	7030007340	S.RES	ERJ2GEJ 153 X (15K)	T	15.5/13.3
R14	7030005090	S.RES	ERJ2GEJ 104 X (100K)	T	18.5/12.8
R15	7030005090	S.RES	ERJ2GEJ 104 X (100K)	T	13.4/12.8
R16	7030005050	S.RES	ERJ2GEJ 103 X (10K)	T	9.4/13.2
R21	7030005050	S.RES	ERJ2GEJ 103 X (10K)	T	9.9/1.4
R22	7030005050	S.RES	ERJ2GEJ 103 X (10K)	T	20.7/1.7
R23	7030009160	S.RES	ERJ2GEJ 181 X (180)	T	15.6/2.2
R25	7030008370	S.RES	ERJ2GEJ 561 X (560)	T	9.9/3.2
R26	7030005010	S.RES	ERJ2GEJ 681 X (680)	T	6.9/9.6
R27	7030005070	S.RES	ERJ2GEJ 683 X (68K)	T	7.6/5.1
R31	7030005000	S.RES	ERJ2GEJ 471 X (470)	T	4.3/5.6
R32	7030005070	S.RES	ERJ2GEJ 683 X (68K)	T	6.8/1.7
R33	7030007270	S.RES	ERJ2GEJ 151 X (150)	T	2.9/5.3
R34	7030009200	S.RES	ERJ2GEJ 390 X (39)	T	1.8/4.4
R41	7030005000	S.RES	ERJ2GEJ 471 X (470)	T	3.5/9.5
R42	7030007350	S.RES	ERJ2GEJ 393 X (39K)	T	5.1/9.5
R43	7030003860	S.RES	ERJ3GE JPW V	T	16.1/3.7
C4	4030017460	S.CER	C1005 JB 1H 102K-T	T	18.3/11.3
C6	4030016790	S.CER	C1005 JB 1E 103K-T	T	3.5/7.5
C8	4030017460	S.CER	C1005 JB 1H 102K-T	T	15.2/10.8
C9	4030017460	S.CER	C1005 JB 1H 102K-T	T	15.0/9.5
C11	4030017460	S.CER	C1005 JB 1H 102K-T	T	12.8/10.8
C12	4030017460	S.CER	C1005 JB 1H 102K-T	T	14.0/11.3
C13	4030018860	S.CER	C1005 JB 0J 105K-T	T	13.4/13.7
C14	4030017460	S.CER	C1005 JB 1H 102K-T	T	14.6/13.3
C15	4030017460	S.CER	C1005 JB 1H 102K-T	T	17.3/13.3
C16	4030011810	S.CER	C1608 JB 1A 224K-T	T	10.3/9.9
C21	4030018010	S.CER	C1005 CH 1H 360J-T	T	16.2/8.0
C22	4030017670	S.CER	C1005 CH 1H 390J-T	T	15.0/7.6
C24	4030017760	S.CER	C1005 JB 1H 222K-T	T	11.6/7.0
C31	4030017350	S.CER	C1005 CH 1H 020B-T	T	12.2/4.7
C32	4030017550	S.CER	C1005 CH 1H 1R5B-T	T	20.4/3.3
C33	4030017440	S.CER	C1005 CH 1H 221J-T	T	15.6/1.3
C34	4030017460	S.CER	C1005 JB 1H 102K-T	T	9.9/4.1
C35	4030006860	S.CER	C1608 JB 1H 102K-T	T	14.1/2.7
C36	4030017340	S.CER	C1005 CH 1H 010B-T	T	9.9/2.3
C37	4030017460	S.CER	C1005 JB 1H 102K-T	T	7.0/8.7
C41	4030017380	S.CER	C1005 CH 1H 050B-T	T	6.8/3.3
C42	4030017460	S.CER	C1005 JB 1H 102K-T	T	4.8/4.4
C43	4030017400	S.CER	C1005 CH 1H 220J-T	T	2.5/3.1
C46	4030017630	S.CER	C1005 CH 1H 120J-T	T	4.8/8.3
C47	4030017460	S.CER	C1005 JB 1H 102K-T	T	3.5/8.4
C48	4030017460	S.CER	C1005 JB 1H 102K-T	T	5.4/13.1
C49	4030017650	S.CER	C1005 CH 1H 270J-T	T	3.3/11.3
J1	6910003831	CON	IMSA-9230B-1-04Z003-PT1		
J2	6910003831	CON	IMSA-9230B-1-04Z003-PT1		

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

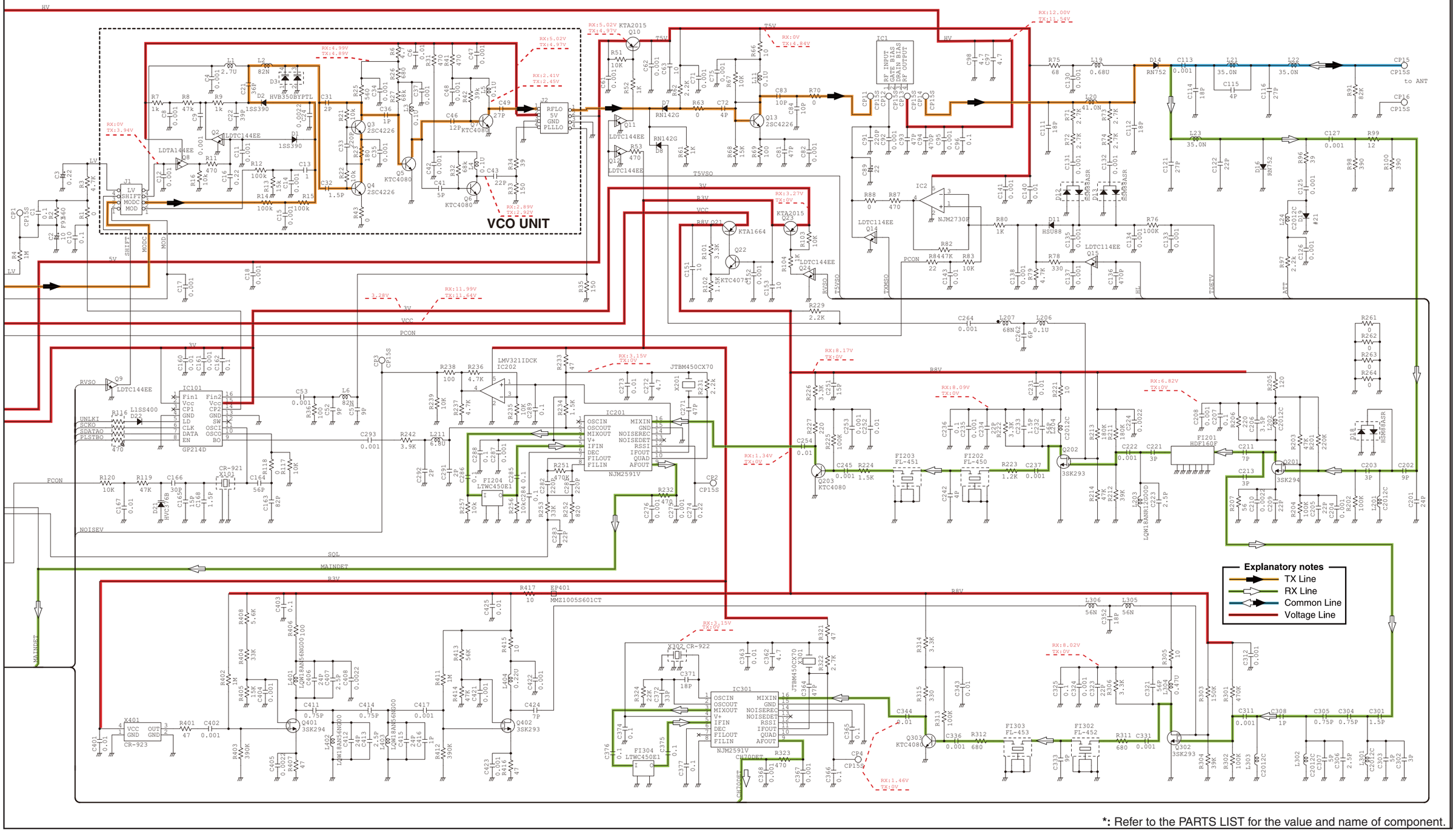
VOLTAGE DIAGRAM

• MAIN UNIT (1/2)



*: Refer to the PARTS LIST for the value and name of component.

• MAIN UNIT (2/2)



*: Refer to the PARTS LIST for the value and name of component.

ICOM

SERVICE MANUAL

VHF MARINE TRANSCEIVER

IC–M400BB

S-14915XZ-C1
January 2013

Icom Inc.

INTRODUCTION

This service manual describes the latest technical information for the **IC-M400BB** VHF MARINE TRANSCEIVER, at the time of publication.

MODEL	VERSION	SUPPLIED MICROPHONE
IC-M400BB	USA	–
	UK	
	EUR	
	HOL	
	FRG	
	USA-01	HM-195B
	UK-01	
	EUR-01	
	HOL-01	
	FRG-01	
	USA-02	HM-195SW
	EUR-02	

CAUTION

NEVER connect the transceiver to an AC outlet or to a DC power supply that uses more than the specified voltage. This will ruin the transceiver.

DO NOT reverse the polarities of the power supply when connecting the transceiver.

DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front-end.

To upgrade quality, any electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

(HM-195B/SW*)

*; May not be supplied, depending on the transceiver version.

ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

1. 10-digit Icom part number
2. Component name
3. Equipment model name and unit name
4. Quantity required

<ORDER EXAMPLE>

1110003491	S.IC	TA31136FNG	IC-M400BB	MAIN UNIT	5 pieces
8820001210	Screw	2438 screw	IC-M400BB	Top cover	10 pieces

Addresses are provided on the inside back cover for your convenience.

REPAIR NOTES

1. Make sure that the problem is internal before disassembling the transceiver.
2. **DO NOT** open the transceiver until the transceiver is disconnected from its power source.
3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
4. **DO NOT** short any circuits or electronic parts. An insulated tuning tool MUST be used for all adjustments.
5. **DO NOT** keep power ON for a long time when the transceiver is defective.
6. **DO NOT** transmit power into a Standard Signal Generator or a Sweep Generator.
7. **ALWAYS** connect a 50 dB to 60 dB attenuator between the transceiver and a Deviation Meter or Spectrum Analyzer, when using such test equipment.
8. **READ** the instructions of the test equipment throughly before connecting it to the transceiver.

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SECTION 6 MECHANICAL PARTS

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SECTION 8 GENERAL WIRING

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SECTION 1 SPECIFICATIONS

■ GENERAL

- Frequency coverage
  - European versions : Tx 156.000–161.450 MHz
    Rx 156.000–163.425 MHz
  - USA versions : Tx 156.025–157.425 MHz
    Rx 156.050–163.275 MHz
  - CH70 RX : 156.525 MHz
- Intermediate frequencies
  - MAIN : 1st 21.700 MHz, 2nd 450 kHz
  - CH70 1st 30.875 MHz, 2nd 450 kHz
- Mode : FM (16K0G3E), DSC (16K0G2B)
- Channel spacing : 25 kHz
- Operating temperature range : –20°C to +60°C; –4°F to +140°F
- Current drain (at 13.8 V) : TX high (25 W) 5.5 A maximum
  Maximum audio 3.5 A maximum
- Power supply requirement
  - European versions : 13.8 V DC nominal (negative ground) (Operatable range: 10.8–15.6 V)
  - USA versions : 13.8 V DC nominal (negative ground) (Operatable range: 11.7–15.9 V)
- Frequency stability : ±1.5 kHz (–20°C to +60°C)
- Antenna impedance : 50 Ω nominal
- Dimensions (approximately) : 216(W) × 79(H) × 125(D) mm ; 8.5(W) × 3.1(H)× 4.9(D) inches (Projections not included)
- Weight (approximately) : 830 g; 29 oz

■ TRANSMITTER

- Output power : 25 W/1 W
- Modulation system : Variable reactance frequency modulation
- Maximum frequency deviation : ±5 kHz
- Frequency error
  - European versions : Less than ±1.5 kHz
  - USA versions : ±10 ppm
- Adjacent channel power : More than 70 dB
- Spurious emissions
  - European versions : Less than 0.25 µW
  - USA versions : Less than –70 dBc (High), Less than –56 dBc (Low)
- Audio harmonic distortion : Less than 10% (at 60% distortion)
- Residual modulation : More than 40 dB
- Audio frequency response
  - European versions : +1 dB to –3 dB of 6 dB octave (from 300–3000 Hz)
  - USA versions +1 dB to –3 dB of 6 dB octave (from 300–2500 Hz)

■ RECEIVER (MAIN)

- Receive system : Double conversion superheterodyne
- Sensitivity
  - European versions (20 dB SINAD) : –5 dBµ emf (typical)
  - USA versions (12 dB SINAD) : –13 dBµ (typical)
- Squelch sensitivity
  - European versions : Less than –2 dBµ emf
  - USA versions : Less than –10 dBµ
- Intermodulation rejection ratio
  - European versions : More than 68 dB
  - USA versions : More than 70 dB
- Hum and noise : More than 40 dB
- Spurious response rejection ratio : More than 70 dB
- Adjacent channel selectivity : More than 70 dB
- Audio frequency response : +1 dB to –3 dB of 6 dB octave (from 300–3000 Hz)
- Audio output power (at 10% distortion with a 4 Ω load)
  - External speaker : More than 10 W
  - HM-195 : More than 2 W

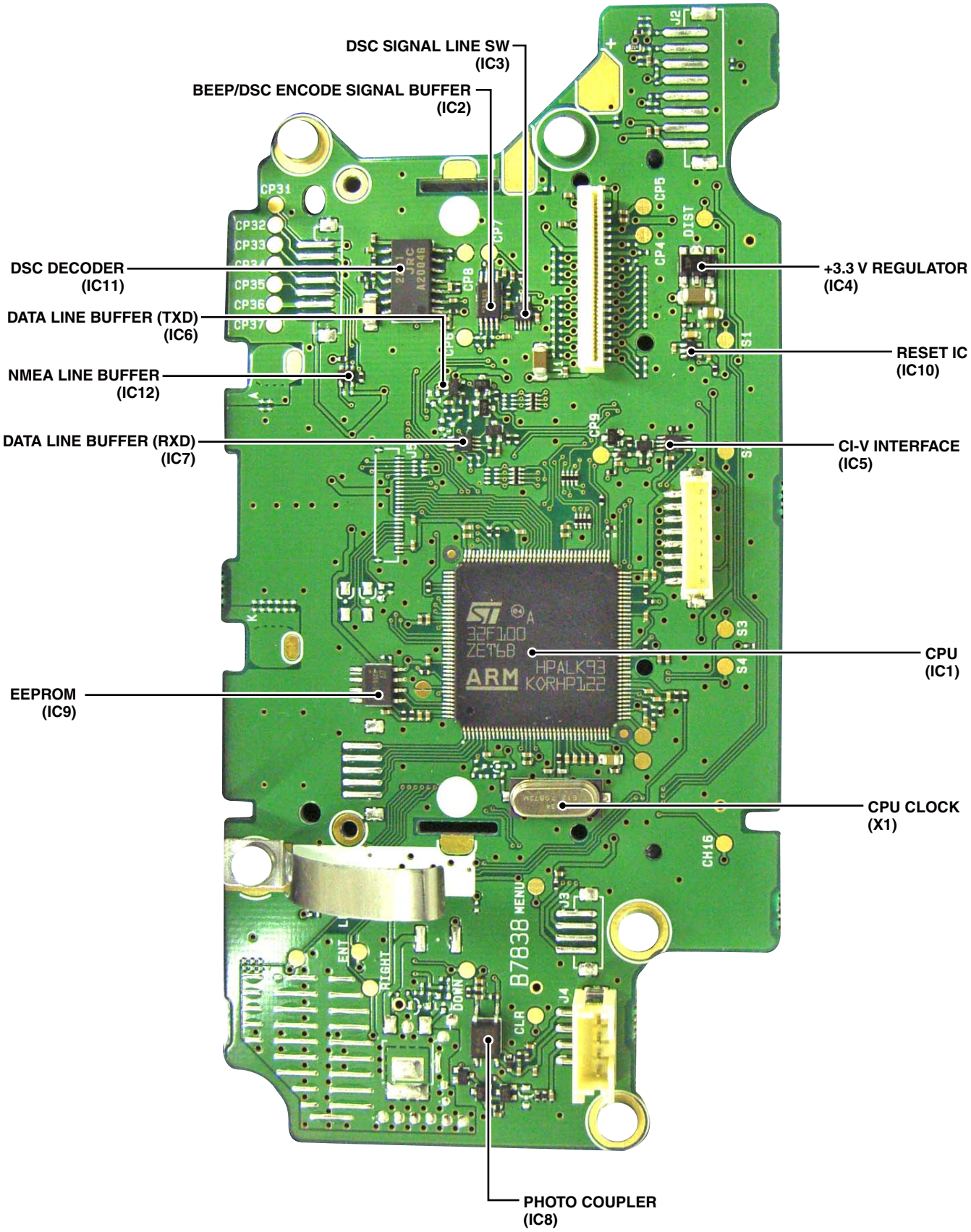
■ RECEIVER (CH70)

- Sensitivity (at 1% BER)
  - European versions : –4 dBµ emf (typical)
  - USA versions : –5 dBµ (typical)
- Intermodulation rejection ratio : More than 68 dB (at 1% BER)
- Spurious response rejection ratio : More than 73 dB (at 1% BER)
- Adjacent channel selectivity : More than 73 dB (at 1% BER)

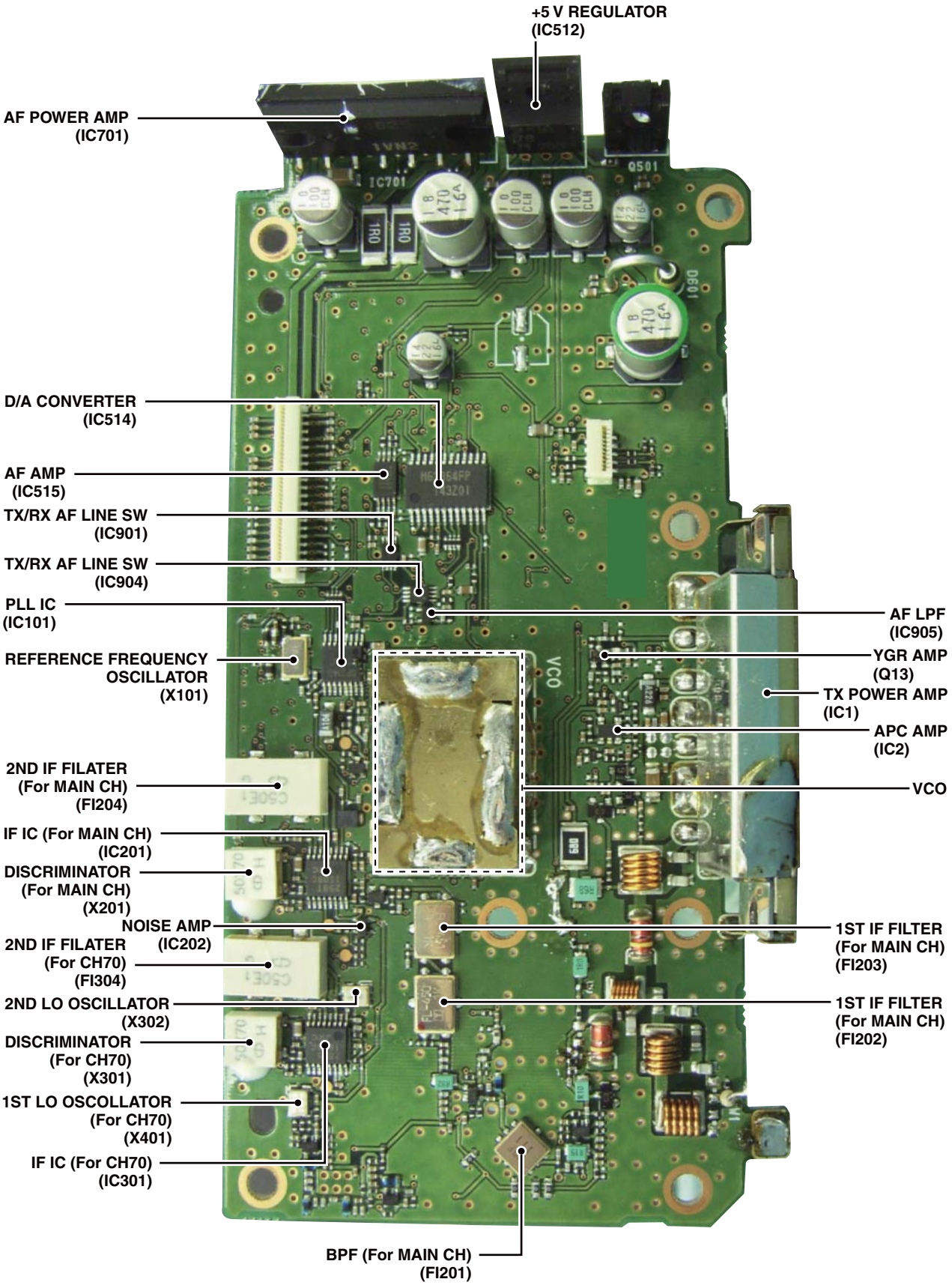
All stated specifications are subject to change without notice or obligation.

SECTION 2 INSIDE VIEWS

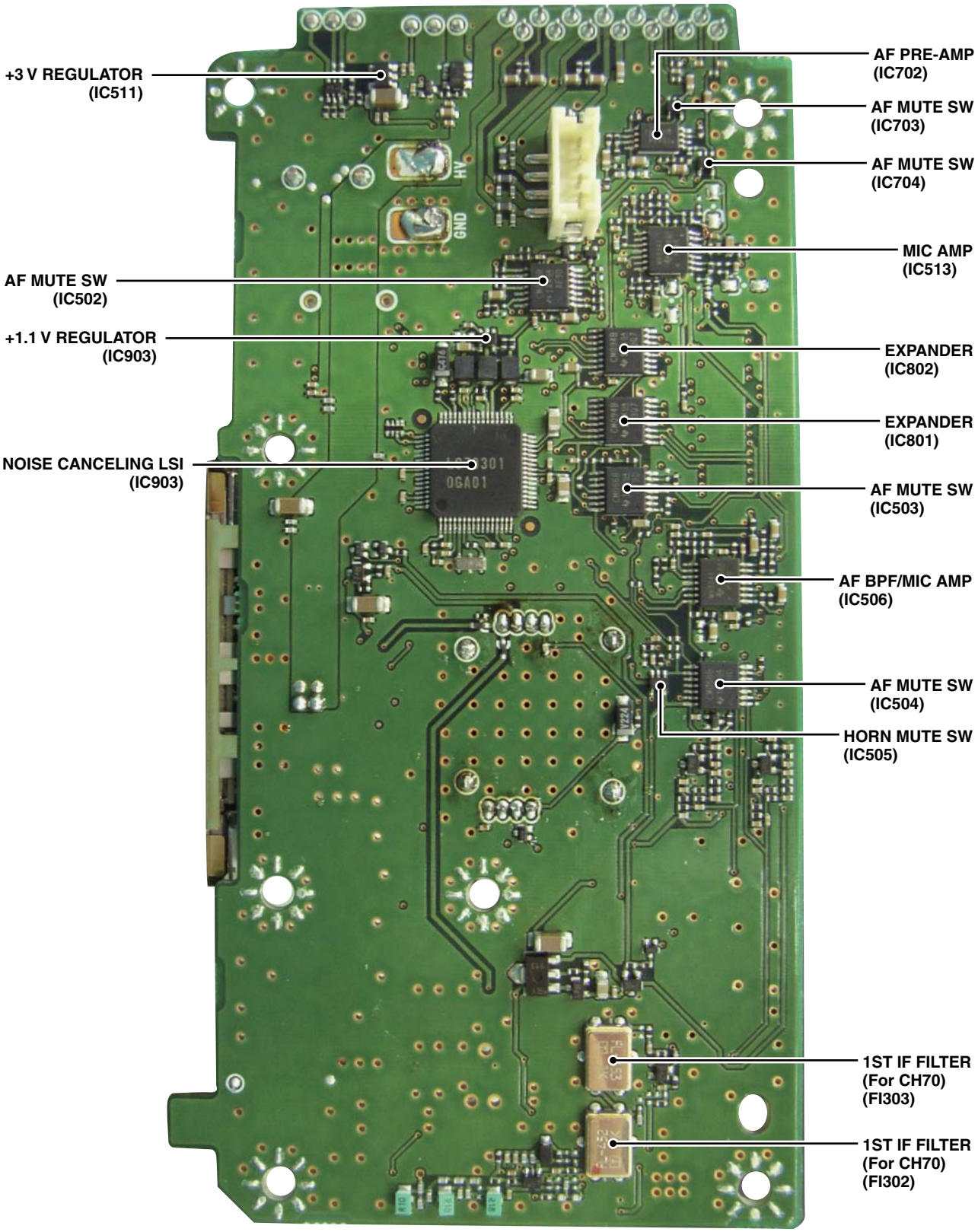
• **LOGIC UNIT**



• MAIN UNIT
(TOP VIEW)



• MAIN UNIT
(BOTTOM VIEW)

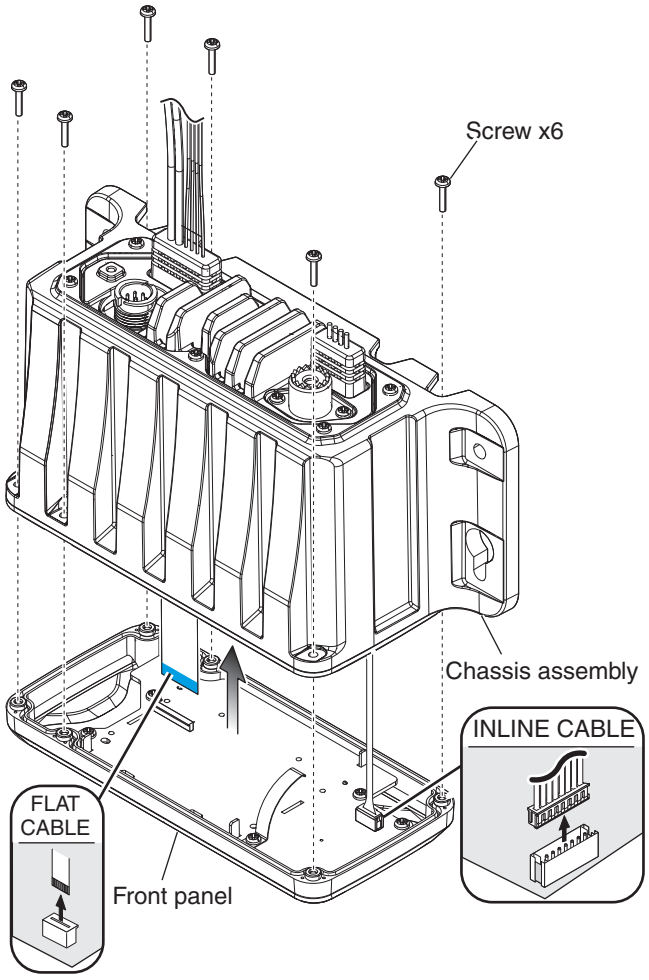


SECTION 3 DISASSEMBLY INSTRUCTION

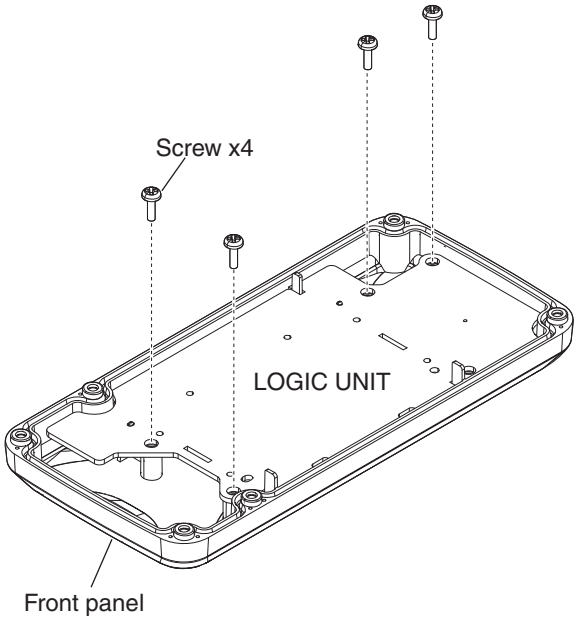
1. Removing the FRONT UNIT

1) Remove 6 screws from the rear.
2) Disconnect the flat cable and inline cable from the LOGIC UNIT.
3) Separate the front panel from the chassis assembly.

BE CAREFUL about the **flat cable** and **connector** when separating the front panel from the chassis assmbly.

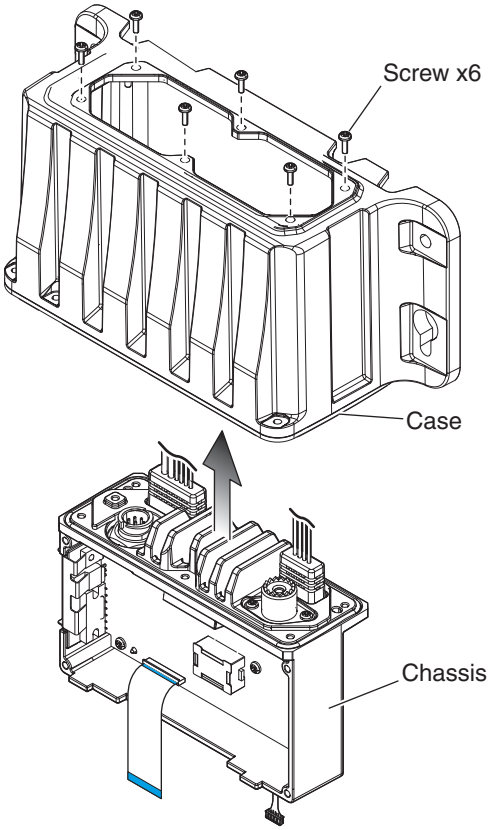


4) Remove 4 screws from the LOGIC UNIT.
5) Remove the LOGIC UNIT.

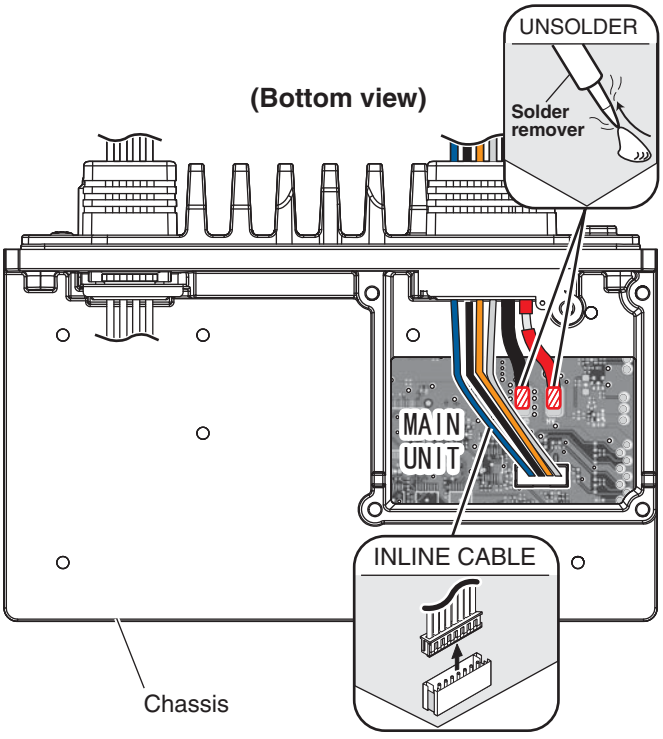


2. Removing the MAIN UNIT

1) Remove 6 screws from the rear.
2) Remove the case from the chassis.

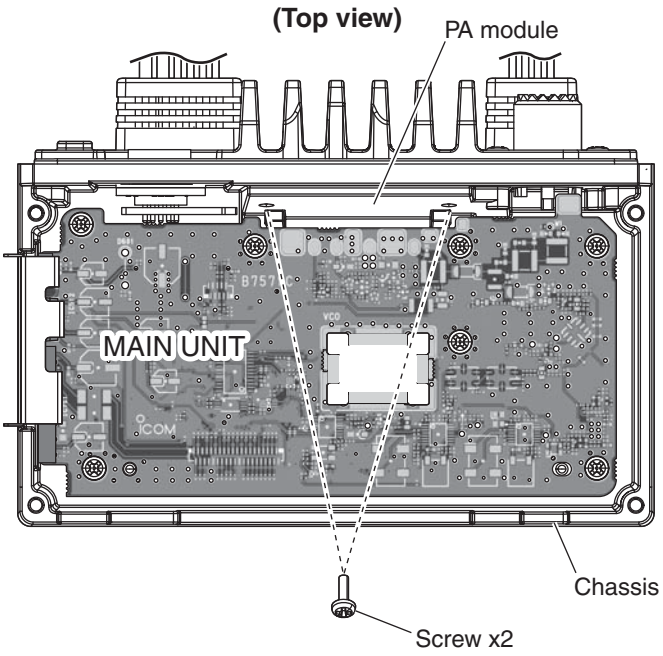


3) Disconnect the inline cable from the bottom of MAIN UNIT.
4) Unsolder 2 points at the power supply cable.

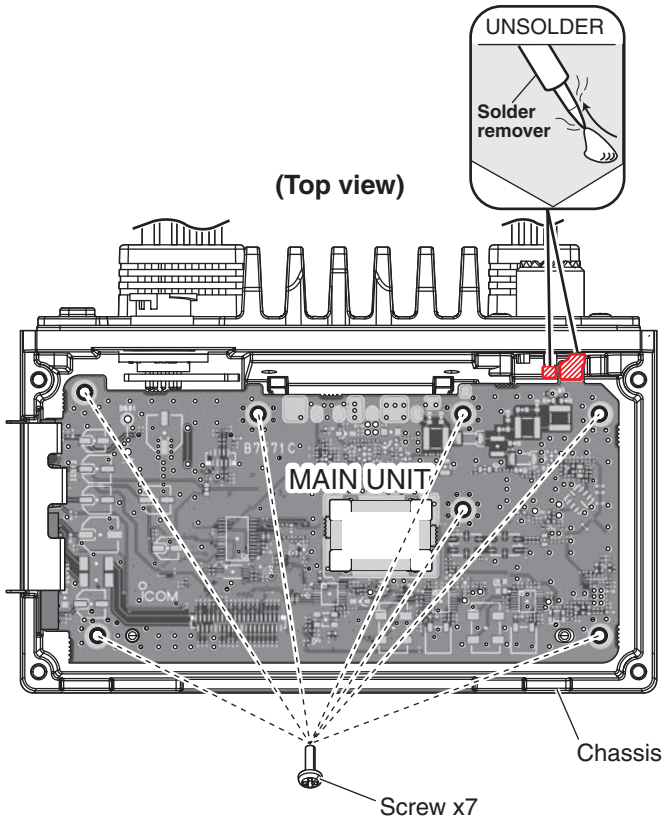


(Continued on next page.)

5) Remove 2 screws from the PA module.



6) Remove 7 screws from the top of MAIN UNIT.
7) Unsolder 2 points at the antenna connector.
8) Remove the MAIN UNIT from the chassis.



SECTION 4 CIRCUIT DESCRIPTION

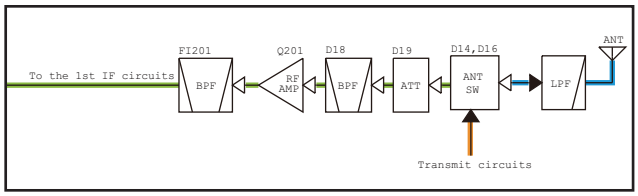
4-1 RECEIVE CIRCUITS

RF CIRCUIT (MAIN UNIT)

The RX signal from the antenna is passed through the LPF (L21, L22, and C114–C116), ANT SW (D16), attenuator (D19, R96) and BPF (L201, C201 and C202), and then applied to the RF AMP (Q201).

The amplified signal is divided and applied to the 1st IF circuits for MAIN CH or CH70, through another BPF (FI201: for MAIN CH; L301–L303 and C302–C308: for CH70).

• RF CIRCUIT

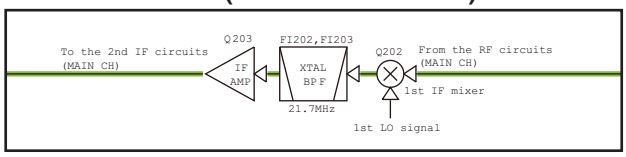


1ST IF CIRCUIT FOR MAIN CHANNELS (MAIN UNIT)

The RX signal from the RF circuits is applied to the 1st IF mixer (Q202), and mixed with the 1st LO signal from the VCO (Q3, Q4 and D1–D3), resulting in a 21.7 MHz 1st IF signal.

The 1st IF signal is filtered by the 1st IF filter (FI202 and FI203), and then applied to the 1st IF AMP (Q203). The amplified signal is applied to the 2nd IF circuits.

• 1ST IF CIRCUIT (For main channels)



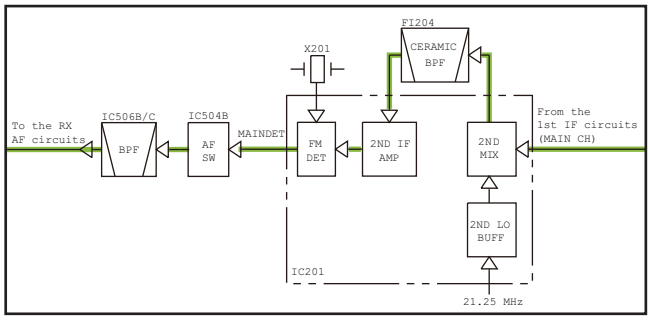
2ND IF CIRCUIT FOR MAIN CHANNELS (MAIN UNIT)

The 1st IF signal from the 1st IF circuits is applied to the IF IC (IC201, pin 16). The IF IC contains the 2nd IF mixer, 2nd IF AMP, detector, and so on, in its package.

The 1st IF signal is mixed with the 21.25 MHz 2nd LO signal from the reference frequency oscillator (TCXO: X101), resulting in a 450 kHz 2nd IF signal. The 2nd IF signal is passed through the 2nd IF filter (FI204) to remove sideband noise. The filtered signal is amplified by the 2nd IF AMP, and demodulated by the quadrature detector with discriminator (X201).

The demodulated AF signal is applied to the RX AF circuits, through the AF SW (IC504B, pins 4, 3).

• 2ND IF CIRCUIT (For main channels)

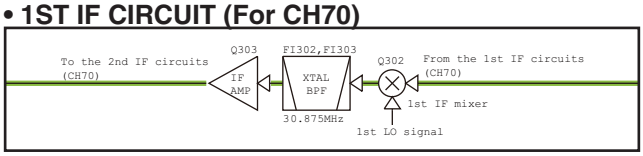


1ST IF CIRCUIT FOR CH70 (MAIN UNIT)

The RX signal from the RF circuits is applied to the 1st IF mixer (Q302), and mixed with the 125.649 MHz 1st LO signal which is generated by the TCXO (X401) and tripled by the BPF (L402, L403 and C412–C416), resulting in a 30.875 MHz 1st IF signal.

The 1st IF signal is filtered by the 1st IF filters (FI302 and FI303), and then applied to the 1st IF AMP (Q303). The amplified signal is applied to the 2nd IF circuits.

• 1ST IF CIRCUIT (For CH70)



2ND IF CIRCUIT FOR CH70 (MAIN and LOGIC UNITS)

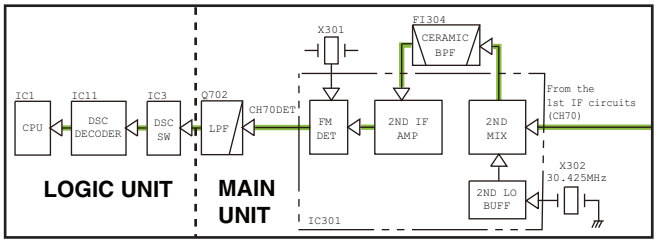
The 1st IF signal from the 1st IF circuits is applied to the IF IC (IC301, pin 16). The IF IC contains the 2nd IF mixer, 2nd IF AMP, detector, and so on, in its package.

The 1st IF signal is mixed with the 30.425 MHz 2nd LO signal which is generated by 2nd LO oscillator (X302), resulting in a 450 kHz 2nd IF signal. The 2nd IF signal is passed through the 2nd IF filter (FI304) to remove sideband noise. The filtered signal is amplified by the 2nd IF AMP, and demodulated by the quadrature detector with discriminator (X301).

The demodulated AF (FSK; Frequency Shift Keying) signal is applied to the DSC decoder (LOGIC UNIT: IC11, pin 2) which converts the sub audible tone signal into serial data, through the LPF (Q702) and DSC SW (LOGIC UNIT: IC3, pins 7, 1).

The serial data is applied to the CPU (LOGIC UNIT: IC1, pin 103) to control the transceiver (emergency alarm, DSC indication and so on.).

• 2ND IF CIRCUIT (For CH70)



RX AF CIRCUIT (MAIN UNIT)

The demodulated AF signal from the AF SW (IC504B) is passed through the BPF (IC506B, IC506C) and AF SW (IC901, pins 7, 1), and then applied to the noise canceller IC (IC902, pin 36).

The processed AF signal is output from pin 25, and then passed through the LPF (IC905, pins 1, 4) and AF SW (IC904, pins 1, 7).

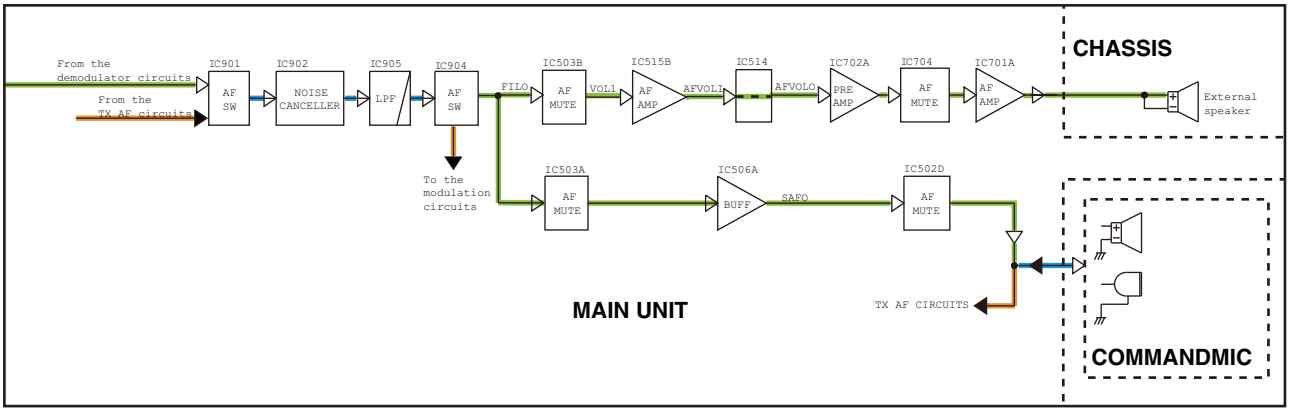
• When the AF signal is output to the optional COMMANDMICⅣ**™**

The RX AF signal from the AF SW (IC904, pins 1, 7) is passed through the AF MUTE SW (IC503A, pins 2, 1) and amplified by the buffer (IC506A), and then output to the COMMANDMICⅣ™, through the AF mute SW (IC502D, 11, 10).

• When the AF signal is output to the external speaker

The RX AF signal from the AF SW (IC904, pins 1, 7) is passed through the AF MUTE SW (IC503A, pins 2, 1) and amplified by the buffer (IC506A), and then output to the external speaker, through the AF mute SW (IC502D, 11, 10).

• RX AF CIRCUIT

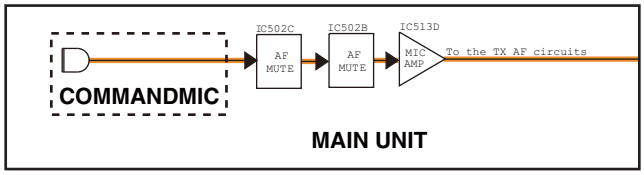


4-2 TRANSMIT CIRCUITS

TX AF CIRCUIT (MAIN UNIT)

The AF signal from the COMMANDMICIV™ is passed through the MIC mute SWs (IC502C, pins 9, 8 and IC502B, pins 4, 3), and then applied to the MIC AMP (IC513D).

• MIC AMP CIRCUITS



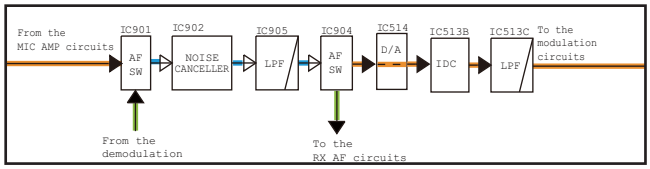
TX AF CIRCUIT (MAIN UNIT)

The amplified AF signal is passed through the AF SW (IC901, pins 6, 1) and applied to the noise canceller IC (IC902, pin 36).

The processed AF signal is output from pin 26, and then passed through the LPF (IC905, pins 1, 4) and AF SW (IC904, pins 1, 6), and then applied to the D/A converter (IC514, pins 13, 14) to be adjusted in level.

The level-adjusted AF signal is applied to the IDC AMP (IC513B) which limits the amplitude of MIC signal to prevent over deviation. The amplitude-limited signal is passed through the LPF (IC513C), and then applied to the modulation circuits on the VCO UNIT.

• TX AF CIRCUIT

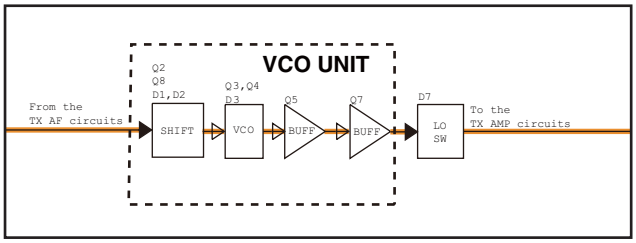


MODULATION CIRCUIT (VCO UNIT)

The MIC signal from the TX AF circuits is applied to the VCO (Q3, Q4 and D1–D3). The modulation signal is applied to D2, to obtain Frequency Modulation.

The modulated VCO output signal is passed through the buffers (Q5 and Q7), and then applied to the TX AMP circuits as a TX signal, through the LO SW (MAIN UNIT: D7).

• MODULATION CIRCUIT



TX AMP CIRCUIT (MAIN UNIT)

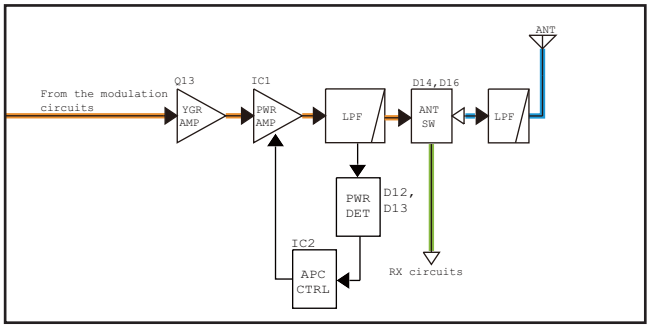
The TX signal is amplified by the YGR (Q13) and power AMP (IC1), and then passed through the LPF (L20, C111 and C112), TX output power detector (D12 and D13), ANT SW (D14), and two LPF (L21, L22, and C114–C116), before being sent to the antenna.

APC CIRCUIT (MAIN UNIT)

The voltage produced at the LPF (L20, C111, and C112) is rectified by D12 and D13, and is used as the TX power sensing voltage.

The voltage is applied to the APC AMP (IC2, pin 3), and the output voltage controls the gate bias voltage of power AMP (IC1) to keep the TX output power constant.

• TX AMP CIRCUIT



4-3 FREQUENCY SYNTHESIZER

• VCO (VCO UNIT)

The VCO (Q3, Q4, and D1–D3) generates both 1st LO signal for MAIN channels and the TX signal.
The output of buffer (Q7) is used as the TX or RX LO signal.

While receiving, the LO signal is applied to the 1st IF mixer for MAIN channels (MAIN UNIT: Q202), through the LO SW (MAIN UNIT: D8) and LPF (MAIN UNIT: L206, L207 and C262).

While transmitting, the LO signal is applied to the TX AMP circuits, through the LO SW (MAIN UNIT: D7).

• PLL (MAIN UNIT)

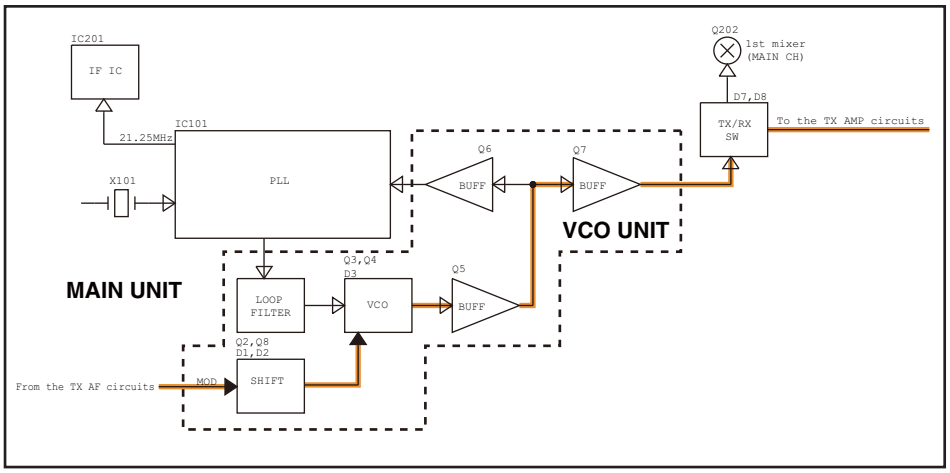
A portion of VCO output signal is passed through two buffers (VCO UNIT: Q5 and Q6), and then fed back to the PLL IC (IC101, pin 16).

The PLL IC (IC101) phase-compares the outputs of the reference frequency oscillator (TCXO; X101) and VCO, and the phase-difference is output as the charge pump current.

The current is passed though the loop filter (R1–R3, C1–C3, and C10) to be converted into the lock voltage, which controls the oscillating frequency of VCO.

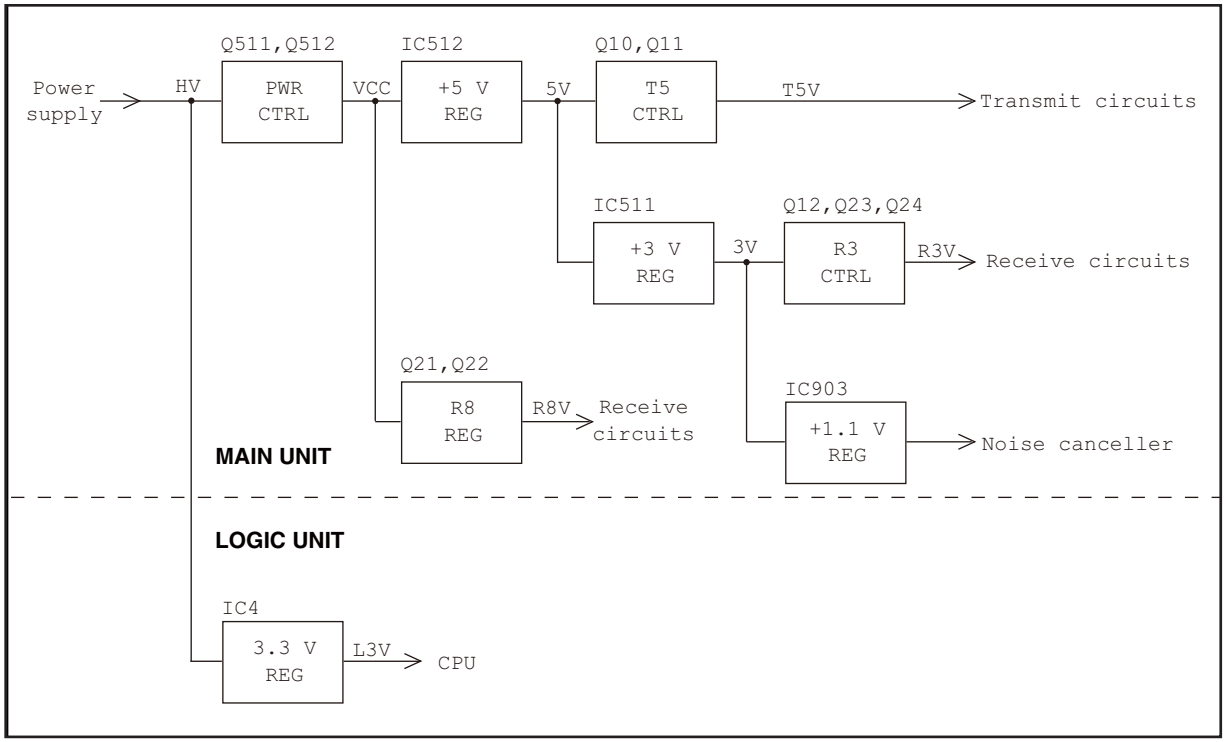
When the oscillation frequency drifts, its phase changes from that of the reference frequency, causing a lock voltage change to compensate for the drift in the VCO oscillating frequency.

• FREQUENCY SYNTHESIZER CIRCUIT



4-4 VOLTAGE BLOCK DIAGRAM

Voltage from the power supply is routed throughout the transceiver, through regulators and switches.



4-5 PORT ALLOCATIONS

• CPU (LOGIC UNIT: IC1)

PIN No.	LINE NAME	DESCRIPTION	I/O
26	TEMPV	Temperature sensing voltage.	I
27	TDETV	Transmit output power sensing voltage.	I
28	LOINV	Lock voltage input.	I
29	WDECV	Weather alert signal detect.	I
40	DSCOUT	DSC signal encoding output.	O
41	BEEP	Beep audio. (Square waves)	O
44	NOISEV	Noise level detect.	I
46	LBAT	Power supply voltage.	I
58	SDATA	Common serial data.	I
59	SCK	Common serial clock.	I
63	DASTB	D/A converter (MAIN UNIT: IC514) strobe.	I
64	PLSTB	PLL (MAIN UNIT: IC101) strobe.	I
65	IOSTB	Expander (MAIN UNIT: IC801 and IC802) strobe.	I
69	COM1TXD	Serial data to the COMMANDMI-CIV™.	O
70	COM1RXD	Serial data from the COMMANDMI-CIV™.	I
77	REXTM	RX AF mute switch (MAIN UNIT: IC504) control. (For COMMANDMI-CIV™) L=AF mute.	O
78	RXSPM	RX AF mute switch (MAIN UNIT: IC504) control. (For public address) L=AF mute.	O
101	NM1TXD	NMEA output.	O
102	NM1RXD	NMEA input.	I
103	DSCIN	Decoded DSC signal input.	I
113	CLOTXD	Cloning data.	O
114	DTEST	DSC loop back testing signal.	O
116	CLORXD	Cloning data.	I
117	PON	Power supply line VCC control. L=While the transceiver's power is ON.	O
135	UNLKI	PLL unlock detect. L=Unlocked.	I
136	DIMM	LCD brightness control.	O
141	ECK	EEPROM (LOGIC UNIT: IC9) serial clock.	O
142	EDATA	EEPROM (LOGIC UNIT: IC9) serial data.	I/O

• D/A CONVERTER (MAIN UNIT: IC514)

PIN No.	LINE NAME	DESCRIPTION
2	AFVOLO	AF output level adjustment. (RX signal)
3	FCON	Reference frequency adjustment.
11	SQL	Noise squelch level adjustment.
14	MSENS	MIC sensitivity adjustment.
15	PCON	TX output power adjustment.
23	PAVOLO	AF output level adjustment. (Public address signal)

SECTION 5 PARTS LIST

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1150002470	IC RA33H1516M1-225		
IC2	1110006670	S.IC NJM2730F-TE1-#ZZZB	T	73.9/48.1
IC101	1130016080	S.IC GP214D <SEI>	T	65.9/16.0
IC201	1110007320	S.IC NJM2591V-TE1-#ZZZB	T	91.4/14.3
IC202	1110006490	S.IC LMV321IDCKR	T	97.0/18.6
IC301	1110007320	S.IC NJM2591V-TE1-#ZZZB	T	111.2/14.3
IC502	1130011770	S.IC CD4066BPWR	B	32.0/28.3
IC503	1130011770	S.IC CD4066BPWR	B	54.0/20.3
IC504	1130011770	S.IC CD4066BPWR	B	74.5/10.3
IC505	1130007021	S.IC TC7S66FU(TE85LF)	B	74.2/16.7
IC506	1110006470	S.IC LMV324IPWR	B	63.7/10.3
IC511	1180003480	S.REG NJU7772F33-TE1-#ZZZB	B	8.2/46.4
IC512	1180002781	REG KIA7805API-U/PF		
IC513	1110006470	S.IC LMV324IPWR	B	28.0/15.3
IC514	1190001350	S.IC M62364FP 600D	T	44.7/28.7
IC515	1110006740	S.IC LMV358IPWR	T	43.7/21.1
IC701	1110007900	IC LA4625-E		
IC702	1110006740	S.IC LMV358IPWR	B	15.5/16.2
IC703	1130007021	S.IC TC7S66FU(TE85LF)	B	12.0/14.3
IC704	1130007021	S.IC TC7S66FU(TE85LF)	B	18.2/11.0
IC801	1130011760	S.IC CD4094BPWR	B	46.5/20.3
IC802	1130011760	S.IC CD4094BPWR	B	39.0/20.3
IC901	1130009981	S.IC TC7W53FK(TE85LF)	T	52.5/21.5
IC902	1190003240	S.IC LC70301W-UIC-H	B	51.9/36.1
IC903	1180003820	S.REG NJM2847F3-011-TE1-#HZZH	B	37.7/34.9
IC904	1130009981	S.IC TC7W53FK(TE85LF)	T	57.5/25.3
IC905	1110006490	S.IC LMV321IDCKR	T	60.0/26.2
Q9	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	90.1/31.1
Q10	1510001090	S.TRA KTA2015Y-RTK/P	B	62.6/48.6
Q11	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	60.2/48.6
Q12	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	60.2/46.1
Q13	1530002881	S.TRA 2SC4226-T1 Y24 (R24)	T	65.1/46.9
Q14	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	71.0/49.3
Q15	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	76.8/46.1
Q21	1520000840	S.TRA KTA1664Y-RTF/P	B	105.0/29.6
Q22	1530003900	S.TRA KTC4075 BL-RTK/P	B	106.5/25.2
Q23	1510001090	S.TRA KTA2015Y-RTK/P	B	106.0/19.5
Q24	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	102.3/17.5
Q201	1580000751	S.FET 3SK294(TE85LF)	T	120.9/44.7
Q202	1580000731	S.FET 3SK293(TE85LF)	T	116.7/31.8
Q203	1530003950	S.TRA KTC4080 Y-RTK/P	T	93.6/20.3
Q302	1580000731	S.FET 3SK293(TE85LF)	B	127.1/30.0
Q303	1530003950	S.TRA KTC4080 Y-RTK/P	B	115.2/16.3
Q401	1580000751	S.FET 3SK294(TE85LF)	T	123.2/12.3
Q402	1580000731	S.FET 3SK293(TE85LF)	T	129.3/22.0
Q501	1520000380	TRA 2SB1143 S		
Q502	1590003800	S.TRA KTC811U-GR-RTK/P	B	9.7/51.7
Q503	1560000541	S.FET 2SK880-Y(T5RICOMF)	T	78.2/17.8
Q504	1590004050	S.TRA LDTA144EET1G <SLVJ>	B	28.4/23.7
Q505	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	28.1/26.4
Q506	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	78.3/10.8
Q511	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	9.7/41.4
Q512	1590004710	S.FET TPC6111(TE85LF)	B	8.2/38.2
Q701	1530003900	S.TRA KTC4075 BL-RTK/P	B	82.8/13.1
Q702	1530003900	S.TRA KTC4075 BL-RTK/P	B	82.8/5.4
D7	1750001910	S.DIO HVD144AKRF-E	B	68.2/35.7
D8	1750001910	S.DIO HVD144AKRF-E	B	70.7/33.2
D11	1750002880	S.DIO DB2J31000L	T	78.6/49.6
D12	1790000691	S.DIO HSM88ASRTR-E	T	81.2/50.3
D13	1790000691	S.DIO HSM88ASRTR-E	T	83.3/47.0
D14	1750002060	S.DIO RN752TE-21	T	98.0/51.7
D16	1750002060	S.DIO RN752TE-21	T	110.3/47.0
D18	1790000691	S.DIO HSM88ASRTR-E	T	116.8/47.7
D19	1750001910	S.DIO HVD144AKRF-E [USA]	T	104.1/45.1
	1750001910	S.DIO HVD144AKRF-E [USA-01]		
	1750001910	S.DIO HVD144AKRF-E [USA-02]		
D21	1750000771	S.VAR HVC376BTRF-E	T	62.8/5.2
D22	1750001810	S.DIO L1SS400T1G <SLVJ>	T	60.4/15.7
D501	1790001990	S.VAR EZJP0V080DA	T	43.5/43.4
D502	1790001990	S.VAR EZJP0V080DA	T	41.2/41.4
D503	1790001990	S.VAR EZJP0V080DA	T	39.6/52.6
D504	1790001990	S.VAR EZJP0V080DA	T	42.8/53.5
D601	1790000700	DIO DSA3A1		
FI201	2040002060	S.SAW HDF160F SMD-3 <SEI>	T	123.1/37.7
FI202	2030000930	S.MON 21L715A3(IMD) 21.7 MHz (FL-450)	T	106.1/27.3
FI203	2030000940	S.MON 21L715A3 21.7 MHz (FL-451)	T	97.3/27.3
FI204	2020002480	S.CER LTWC450E1 <JJE>	T	80.5/8.2
FI302	2030000950	S.MON 30L715A(IMD) 30.875 MHz (FL-452)	B	123.0/22.0
FI303	2030000960	S.MON 30L715A 30.875 MHz (FL-453)	B	113.8/22.0
FI304	2020002480	S.CER LTWC450E1 <JJE>	T	101.7/8.2
X101	6050013300	S.XTA CR-921(SX-53S 21.25 MHz) <SKD>	T	65.0/10.1
X201	6070000310	S.DIS JTBM450CX70 <JJE>	T	90.8/5.6
X301	6070000310	S.DIS JTBM450CX70 <JJE>	T	110.4/5.6
X302	6050013310	S.XTA CR-922(SX-32S 30.425 MHz) <SKD>	T	105.3/17.8

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
X401	6050013280	S.XTA CR-923 DSB321SCL 41.883333 MHz	T	118.0/10.9
X901	6060000880	S.CER CSTCE8M19G55	B	61.6/36.7
L6	6200013760	S.COI MLK1005S82NJT	T	73.7/17.9
L11	6200013750	S.COI MLK1005SR10JT	T	64.4/49.0
L19	6200010770	S.COI C2520C-R68G-A	T	92.4/45.2
L20	6200014320	S.COI 0.80-3.0-5TR 41.0N <COMO>	T	90.3/51.7
L21	6200014330	S.COI 0.80-2.7-5TR 35.0N <COMO>	T	111.3/54.2
L22	6200014330	S.COI 0.80-2.7-5TR 35.0N <COMO>	T	118.7/56.4
L23	6200012700	S.COI 0.50-2.0-6TL 35.0N <COMO>	T	104.4/49.9
L24	6200011210	S.COI C2012C-1R0J-A [USA]	T	101.5/44.6
	6200011210	S.COI C2012C-1R0J-A [USA-01]		
	6200011210	S.COI C2012C-1R0J-A [USA-02]		
L201	6200009920	S.COI C2012C-R10G-A	T	116.0/44.9
L202	6200010320	S.COI C2012C-R15G-A	T	123.3/44.2
L203	6200011680	S.COI LQW18ANR12G00D	T	115.4/34.8
L204	6200011200	S.COI C2012C-R82J-A	T	115.2/28.4
L206	6200013750	S.COI MLK1005SR10JT	T	112.5/33.0
L207	6200009620	S.COI MLG1608B 68NJ-T	T	109.8/34.7
L211	6200009141	S.COI NLV25T-6R8J	T	84.3/17.0
L301	6200009920	S.COI C2012C-R10G-A	B	129.4/43.7
L302	6200009920	S.COI C2012C-R10G-A	B	129.4/39.4
L303	6200010330	S.COI C2012C-R18G-A	B	129.4/34.1
L304	6200007360	S.COI ELJND R47J	B	123.9/28.6
L305	6200013780	S.COI MLK1005S56NJT	B	128.9/26.9
L306	6200013780	S.COI MLK1005S56NJT	B	128.9/25.3
L401	6200010910	S.COI LQW18AN56NG00D	T	125.4/12.2
L402	6200010910	S.COI LQW18AN56NG00D	T	130.3/11.8
L403	6200010910	S.COI LQW18AN56NG00D	T	130.3/16.6
L404	6200009250	S.COI LQW18ANR22G00D (LQW1608AR22G00)	T	127.1/22.0
L901	6200005041	S.COI NLV25T-220J	B	41.0/37.4
L902	6200002861	S.COI NLV25T-4R7J	B	41.0/32.4
L903	6200002861	S.COI NLV25T-4R7J	B	41.0/34.9
R1	7030010040	S.RES ERJ2GEJ-JPW	T	71.9/16.8
R2	7030008370	S.RES ERJ2GEJ 561 X (560)	T	73.1/16.4
R3	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	78.3/18.9
R4	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	76.6/16.5
R35	7030007270	S.RES ERJ2GEJ 151 X (150)	B	70.7/28.7
R36	7030004980	S.RES ERJ2GEJ 101 X (100)	T	71.5/18.3
R51	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	62.4/46.4
R52	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	64.4/48.0
R53	7030005000	S.RES ERJ2GEJ 471 X (470)	B	60.5/44.1
R61	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	67.2/35.5
R62	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	69.7/47.1
R63	7030010040	S.RES ERJ2GEJ-JPW	T	69.2/45.9
R66	7030005530	S.RES ERJ2GEJ 100 X (10)	T	64.4/50.7
R67	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	65.3/49.0
R68	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	67.5/46.8
R69	7030004980	S.RES ERJ2GEJ 101 X (100)	T	68.0/49.0
R70	7030010040	S.RES ERJ2GEJ-JPW	T	63.0/49.0
R71	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	86.0/51.8
R72	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	84.4/51.8
R73	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	91.9/48.0
R74	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	90.2/48.0
R75	7030007240	S.RES ERJ12YJ680U (68)	T	87.5/43.9
R76	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	80.3/47.6
R78	7030007280	S.RES ERJ2GEJ 331 X (330)	T	77.2/48.1
R79	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	76.9/49.4
R80	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	76.4/51.2
R82	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	74.6/51.2
R83	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	74.6/45.8
R84	7030007250	S.RES ERJ2GEJ 220 X (22)	T	72.9/45.8
R87	7030005000	S.RES ERJ2GEJ 471 X (470)	T	72.9/51.2
R88	7030010040	S.RES ERJ2GEJ-JPW	T	71.2/51.2
R91	7030005080	S.RES ERJ2GEJ 823 X (82K)	T	115.5/62.0
R96	7030009200	S.RES ERJ2GEJ 390 X (39) [USA]	T	107.2/44.4
	7030009200	S.RES ERJ2GEJ 390 X (39) [USA-01]		
	7030009200	S.RES ERJ2GEJ 390 X (39) [USA-02]		
R97	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA]	T	98.9/43.8
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA-01]		
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA-02]		
R98	7030009280	S.RES ERJ2GEJ 391 X [UK]	T	111.9/44.3
	7030009280	S.RES ERJ2GEJ 391 X [EUR]		
	7030009280	S.RES ERJ2GEJ 391 X [HOL]		
	7030009280	S.RES ERJ2GEJ 391 X [FRG]		
	7030009280	S.RES ERJ2GEJ 391 X [UK-01]		
	7030009280	S.RES ERJ2GEJ 391 X [EUR-01]		
	7030009280	S.RES ERJ2GEJ 391 X [HOL-01]		
	7030009280	S.RES ERJ2GEJ 391 X [FRG-01]		
	7030009280	S.RES ERJ2GEJ 391 X [EUR-02]		

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R99	7030010040	S.RES ERJ2GEJ-JPW [USA]	T	112.4/43.0
	7030010430	S.RES ERJ2GEJ 120 X (12) [UK]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [EUR]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [HOL]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [FRG]		
	7030010040	S.RES ERJ2GEJ-JPW [USA-01]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [UK-01]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [EUR-01]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [HOL-01]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [FRG-01]		
	7030010040	S.RES ERJ2GEJ-JPW [USA-02]		
	7030010430	S.RES ERJ2GEJ 120 X (12) [EUR-02]		
R100	7030009280	S.RES ERJ2GEJ 391 X [UK]	T	112.9/44.3
	7030009280	S.RES ERJ2GEJ 391 X [EUR]		
	7030009280	S.RES ERJ2GEJ 391 X [HOL]		
	7030009280	S.RES ERJ2GEJ 391 X [FRG]		
	7030009280	S.RES ERJ2GEJ 391 X [UK-01]		
	7030009280	S.RES ERJ2GEJ 391 X [EUR-01]		
	7030009280	S.RES ERJ2GEJ 391 X [HOL-01]		
	7030009280	S.RES ERJ2GEJ 391 X [FRG-01]		
	7030009280	S.RES ERJ2GEJ 391 X [EUR-02]		
R101	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	104.7/25.7
R102	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	104.3/24.3
R103	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	104.0/19.6
R104	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	104.0/17.9
R116	7410001150	S.ARR EXB28V471JX	T	57.9/14.8
R117	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	69.8/11.8
R118	7030010040	S.RES ERJ2GEJ-JPW	T	68.5/12.2
R119	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	60.9/8.7
R120	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	61.3/10.1
R201	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	119.0/44.1
R202	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	119.0/46.9
R203	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	121.7/42.7
R204	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	120.8/42.7
R205	7030005710	S.RES ERJ2GEJ 121 X (120)	T	126.0/46.5
R206	7030004990	S.RES ERJ2GEJ 221 X (220)	T	125.8/44.5
R207	7030005580	S.RES ERJ2GEJ 560 X (56)	T	121.0/46.9
R211	7030008300	S.RES ERJ2GEJ 184 X (180K)	T	118.9/31.7
R212	7030007350	S.RES ERJ2GEJ 393 X (39K)	T	118.9/32.6
R213	7030008300	S.RES ERJ2GEJ 184 X (180K)	T	114.8/31.4
R214	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	114.3/33.0
R221	7030005530	S.RES ERJ2GEJ 100 X (10)	T	119.9/28.1
R222	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA]	T	111.8/28.4
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [UK]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [EUR]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [HOL]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [FRG]		
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA-01]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [UK-01]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [EUR-01]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [HOL-01]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [FRG-01]		
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [USA-02]		
	7030007300	S.RES ERJ2GEJ 332 X (3.3K) [EUR-02]		
R223	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	T	110.9/26.5
R224	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	93.1/23.9
R225	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	93.1/22.1
R226	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	94.9/22.1
R227	7030004990	S.RES ERJ2GEJ 221 X (220)	T	93.7/18.5
R229	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	107.2/33.5
R231	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	92.8/10.1
R232	7030005000	S.RES ERJ2GEJ 471 X (470)	T	94.2/9.7
R233	7030004970	S.RES ERJ2GEJ 470 X (47)	T	88.6/18.8
R234	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	88.2/17.6
R235	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	97.3/16.6
R236	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	99.7/18.1
R237	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	98.8/18.1
R238	7030004980	S.RES ERJ2GEJ 101 X (100)	T	100.6/18.1
R239	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	101.5/18.1
R242	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	71.5/12.7
R251	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	86.4/12.0
R252	7030009270	S.RES ERJ2GEJ 821 X (820)	T	86.8/8.9
R253	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	85.9/8.9
R256	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	75.9/7.0
R257	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	75.9/8.9
R261	7030003860	S.RES ERJ3GE JPW V	T	127.9/40.8
R262	7030003860	S.RES ERJ3GE JPW V	T	127.9/39.3
R263	7030003860	S.RES ERJ3GE JPW V	T	127.9/36.8
R264	7030003860	S.RES ERJ3GE JPW V	T	124.4/31.4
R301	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	127.2/34.0
R302	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	127.2/32.2
R303	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	128.9/28.6
R304	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	127.5/28.2
R305	7030005530	S.RES ERJ2GEJ 100 X (10)	B	124.7/33.6
R306	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	124.6/27.2
R311	7030005010	S.RES ERJ2GEJ 681 X (680)	B	126.0/25.8
R312	7030005010	S.RES ERJ2GEJ 681 X (680)	B	111.2/17.6
R313	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	113.4/16.3
R314	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	118.8/16.3
R315	7030007280	S.RES ERJ2GEJ 331 X (330)	B	116.6/14.8
R321	7030004970	S.RES ERJ2GEJ 470 X (47)	T	113.0/18.0
R322	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	112.5/10.1
R323	7030005000	S.RES ERJ2GEJ 471 X (470)	T	113.8/9.7
R324	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	110.0/18.0
R401	7030004970	S.RES ERJ2GEJ 470 X (47)	T	119.3/13.0
R402	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	120.9/13.9
R403	7030006610	S.RES ERJ2GEJ 394 X (390K)	T	122.2/14.4
R404	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	120.9/10.3
R405	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	123.2/10.3
R406	7030004980	S.RES ERJ2GEJ 101 X (100)	T	125.8/14.4
R407	7030004970	S.RES ERJ2GEJ 470 X (47)	T	123.1/14.4
R408	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	120.9/11.2
R411	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	128.3/18.6
R412	7030006610	S.RES ERJ2GEJ 394 X (390K)	T	129.8/19.5
R413	7030005720	S.RES ERJ2GEJ 563 X (56K)	T	131.2/21.6

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R414	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	129.7/24.7
R415	7030005530	S.RES ERJ2GEJ 100 X (10)	T	124.9/19.8
R416	7030004970	S.RES ERJ2GEJ 470 X (47)	T	128.5/19.8
R417	7030005530	S.RES ERJ2GEJ 100 X (10)	T	125.3/21.0
R501	7030012300	S.RES ERJ2RKF 1502X (15K)	B	9.0/49.8
R502	7030011660	S.RES ERJ2RKF 1002 (10K)	B	10.7/49.8
R503	7030011660	S.RES ERJ2RKF 1002 (10K)	B	12.1/50.8
R504	7030007280	S.RES ERJ2GEJ 331 X (330)	B	12.1/52.6
R505	7030007280	S.RES ERJ2GEJ 331 X (330)	B	12.1/51.7
R506	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	10.7/48.9
R511	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	42.2/43.6
R512	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	37.7/43.6
R513	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	41.2/43.6
R514	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	40.7/51.0
R515	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	41.7/51.0
R517	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	77.8/16.0
R521	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	30.9/33.5
R522	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	31.8/33.5
R523	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	30.0/33.5
R524	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	34.3/23.0
R525	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	32.5/23.0
R526	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	57.5/6.5
R527	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	34.4/34.0
R528	7030005530	S.RES ERJ2GEJ 100 X (10)	B	34.4/34.9
R529	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	65.4/4.7
R530	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	65.4/5.6
R531	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	28.7/30.8
R532	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	27.8/30.8
R533	7030005530	S.RES ERJ2GEJ 100 X (10)	B	67.5/7.1
R535	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	33.4/23.0
R537	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	30.0/23.0
R539	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	53.0/25.1
R540	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	55.9/15.6
R541	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	57.8/21.4
R544	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	52.8/14.7
R545	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	50.7/23.9
R547	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	71.4/15.1
R548	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	78.1/9.1
R549	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	72.2/5.7
R550	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	60.1/8.5
R551	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	58.7/5.4
R552	7030005530	S.RES ERJ2GEJ 100 X (10)	B	60.3/4.5
R553	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	62.0/4.5
R554	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	62.0/5.6
R555	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	59.5/11.5
R556	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	60.4/11.5
R557	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	60.4/13.2
R558	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	60.4/14.9
R559	7030005530	S.RES ERJ2GEJ 100 X (10)	B	59.5/13.2
R560	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	59.5/14.9
R561	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	B	58.6/13.2
R562	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	63.4/16.9
R563	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	61.7/16.9
R564	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	61.7/16.0
R565	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	67.0/11.2
R566	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	67.0/12.9
R567	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	71.2/11.7
R568	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	63.8/19.1
R569	7030010040	S.RES ERJ2GEJ-JPW	B	60.3/5.4
R571	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	70.5/17.8
R581	7030005530	S.RES ERJ2GEJ 100 X (10)	B	50.7/19.5
R582	7030005530	S.RES ERJ2GEJ 100 X (10)	B	50.7/22.2
R583	7030005530	S.RES ERJ2GEJ 100 X (10)	B	70.5/15.1
R584	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	69.6/15.1
R585	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	71.8/16.4
R601	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	10.4/39.5
R602	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	10.4/37.8
R611	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	24.9/28.8
R612	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	25.8/30.6
R621	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	24.7/21.0
R622	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	22.4/19.9
R623	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	26.9/20.0
R624	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	23.8/19.3
R625	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	23.8/17.6
R626	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	22.9/15.8
R627	7030012750	S.RES ERJ2RHD 2202X (22.0K)	B	22.0/17.6
R628	7030011120	S.RES ERJ2RHD 2702X (27.0K)	B	22.9/17.6
R629	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	22.0/15.8
R630	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	24.7/13.1
R632	7030005530	S.RES ERJ2GEJ 100 X (10)	B	27.7/10.7
R633	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	23.8/15.8
R634	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	24.7/16.7
R635	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	28.4/7.2
R641	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	31.7/17.5
R642	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	31.7/16.6
R643	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	32.5/19.3
R644	7030005530	S.RES ERJ2GEJ 100 X (10)	B	32.5/18.4
R645	7030010040	S.RES ERJ2GEJ-JPW	B	31.2/18.8
R647	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	29.8/10.7
R661	7030005000	S.RES ERJ2GEJ 471 X (470)	T	50.7/27.1
R662	7030009280	S.RES ERJ2GEJ 391 X	T	55.6/31.9
R663	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	54.2/31.5
R664	7410001150	S.ARR EXB28V471JX	T	51.3/29.2
R671	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	39.2/21.9
R672	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	38.3/21.9
R673	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	38.8/20.6
R676	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	48.1/20.7
R677	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	49.0/20.7
R678	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	48.5/19.4
R701	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	87.3/14.1
R702	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	85.5/12.4
R703	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	86.4/12.4
R704	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	85.5/10.7
R705	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	84.6/10.7
R706	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	81.9/10.7

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R707	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	81.0/12.5
R708	7030004970	S.RES ERJ2GEJ 470 X (47)	B	86.4/14.1
R711	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	88.2/6.3
R712	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	85.5/4.7
R713	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	86.4/4.7
R714	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	85.5/3.0
R715	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	84.6/3.0
R716	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	81.9/3.0
R717	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	81.0/4.7
R718	7030004970	S.RES ERJ2GEJ 470 X (47)	B	87.3/6.3
R721	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	42.5/24.7
R722	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	T	39.3/14.1
R723	7510001661	S.THR NTCG16 4LH 473JT	T	66.5/7.0
R724	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	65.7/5.4
R734	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	31.7/18.6
R735	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	33.0/19.0
R736	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	17.9/15.7
R737	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	17.9/14.1
R738	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	17.6/12.8
R739	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.7/11.6
R740	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	13.1/18.7
R751	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	20.5/21.8
R752	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	18.6/20.5
R753	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	15.6/21.6
R754	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	15.6/20.7
R755	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	17.3/20.7
R758	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	7.1/14.2
R761	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.4/30.5
R762	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.4/31.4
R763	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.4/23.9
R764	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.4/24.8
R901	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	50.6/19.5
R902	7410001140	S.ARR EXB28V104JX	B	47.2/44.8
R903	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	43.2/35.6
R904	7030011210	S.RES ERJ2GEJ 1R0 X (1)	B	38.1/33.1
R905	7030011210	S.RES ERJ2GEJ 1R0 X (1)	B	38.1/32.2
R906	7030005010	S.RES ERJ2GEJ 681 X (680)	B	60.1/40.6
R907	7030005000	S.RES ERJ2GEJ 471 X (470)	B	59.7/36.6
R911	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	43.7/40.2
R912	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	43.7/38.6
R921	7030011210	S.RES ERJ2GEJ 1R0 X (1)	T	60.2/22.0
R922	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	56.0/29.0
R923	7030005080	S.RES ERJ2GEJ 823 X (82K)	T	58.2/28.6
R924	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	60.3/29.0
C1	4030016930	S.CER C1005 JB 1A 104K-T	T	74.0/16.4
C2	4550007520	S.TAN F931A106MAABMA	T	72.9/14.3
C3	4550008150	S.TAN F921V224MAA	B	78.0/20.5
C10	4030016930	S.CER C1005 JB 1A 104K-T	T	71.0/15.9
C17	4030017460	S.CER C1005 JB 1H 102K-T	B	89.5/35.2
C18	4030017460	S.CER C1005 JB 1H 102K-T	T	91.9/32.0
C51	4030017610	S.CER C1005 CH 1H 090C-T	T	75.0/18.8
C52	4030017610	S.CER C1005 CH 1H 090C-T	T	72.4/18.3
C53	4030017460	S.CER C1005 JB 1H 102K-T	T	70.6/18.3
C61	4030017460	S.CER C1005 JB 1H 102K-T	B	62.4/45.5
C62	4030017460	S.CER C1005 JB 1H 102K-T	B	67.6/47.6
C63	4030020310	S.CER GRM31CB31C106KA88L	B	66.0/47.6
C71	4030017460	S.CER C1005 JB 1H 102K-T	T	83.0/43.4
C72	4030017570	S.CER C1005 CH 1H 040B-T	T	67.5/45.9
C75	4030017460	S.CER C1005 JB 1H 102K-T	T	65.7/50.4
C81	4030017420	S.CER C1005 CH 1H 470J-T	T	67.1/49.0
C82	4030017460	S.CER C1005 JB 1H 102K-T	T	66.2/49.0
C83	4030017620	S.CER C1005 CH 1H 100C-T	T	63.0/47.3
C84	4030017620	S.CER C1005 CH 1H 100C-T	T	61.7/47.7
C89	4550008160	S.TAN F931A226MAA	T	69.6/52.8
C91	4030017440	S.CER C1005 CH 1H 221J-T	T	69.1/54.6
C92	4030017460	S.CER C1005 JB 1H 102K-T	T	70.0/54.6
C93	4030017420	S.CER C1005 CH 1H 470J-T	T	73.0/53.5
C94	4030017730	S.CER C1005 JB 1H 471K-T	T	73.0/52.6
C95	4030017460	S.CER C1005 JB 1H 102K-T	T	78.4/54.8
C96	4030011600	S.CER C1608 JB 1E 104K-T	T	72.6/54.6
C97	4030020240	S.CER GRM31CR11C475KA01L	T	80.0/53.2
C98	4030020240	S.CER GRM31CR11C475KA01L	B	55.6/55.9
C111	4030020380	S.CER GRM21A5C2E180JW01D	T	88.8/56.5
C112	4030020380	S.CER GRM21A5C2E180JW01D	T	91.5/56.5
C113	4030020420	S.CER GRM21A7U2E102JW31D	T	105.8/53.8
C114	4030020380	S.CER GRM21A5C2E180JW01D	T	106.8/56.9
C115	4030004810	S.CER C2012 CH 1H 040C-T	T	110.1/58.3
C116	4030020390	S.CER GRM21A5C2E270JW01D	T	113.5/59.3
C121	4030020390	S.CER GRM21A5C2E270JW01D	T	108.3/50.6
C122	4030017400	S.CER C1005 CH 1H 220J-T	T	107.4/49.2
C125	4030017460	S.CER C1005 JB 1H 102K-T [USA]	T	105.5/44.4
	4030017460	S.CER C1005 JB 1H 102K-T [USA-01]		
	4030017460	S.CER C1005 JB 1H 102K-T [USA-02]		
C126	4030017460	S.CER C1005 JB 1H 102K-T [USA]	T	99.3/45.1
	4030017460	S.CER C1005 JB 1H 102K-T [USA-01]		
	4030017460	S.CER C1005 JB 1H 102K-T [USA-02]		
C127	4030017460	S.CER C1005 JB 1H 102K-T	T	110.6/43.0
C130	4030017460	S.CER C1005 JB 1H 102K-T	T	94.5/44.3
C131	4030017460	S.CER C1005 JB 1H 102K-T	T	82.7/51.8
C132	4030017460	S.CER C1005 JB 1H 102K-T	T	88.5/48.0
C133	4030017460	S.CER C1005 JB 1H 102K-T	T	80.3/46.0
C134	4030017460	S.CER C1005 JB 1H 102K-T	T	83.4/49.5
C135	4030017460	S.CER C1005 JB 1H 102K-T	T	81.2/47.6
C136	4030017730	S.CER C1005 JB 1H 471K-T	T	77.4/44.5
C137	4030017460	S.CER C1005 JB 1H 102K-T	T	76.3/48.1
C138	4030017460	S.CER C1005 JB 1H 102K-T	T	76.9/50.3
C140	4030016790	S.CER C1005 JB 1E 103K-T	T	71.5/47.3
C141	4030017460	S.CER C1005 JB 1H 102K-T	T	70.6/47.3
C143	4030016790	S.CER C1005 JB 1E 103K-T	T	74.6/44.9
C151	4030020310	S.CER GRM31CB31C106KA88L	B	101.4/28.2
C152	4030017460	S.CER C1005 JB 1H 102K-T	B	106.9/21.3
C153	4030019560	S.CER GRM21BB31C106KE15L	B	106.2/22.7
C160	4030016790	S.CER C1005 JB 1E 103K-T	T	61.2/17.5

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C161	4030017460	S.CER C1005 JB 1H 102K-T	T	60.3/17.5
C162	4030016930	S.CER C1005 JB 1A 104K-T	T	67.3/19.3
C163	4030017680	S.CER C1005 CH 1H 820J-T	T	69.0/10.9
C164	4030017500	S.CER C1005 CH 1H 560J-T	T	67.2/12.6
C165	4030017640	S.CER C1005 CH 1H 150J-T	T	62.9/7.6
C166	4030018070	S.CER C1005 CH 1H 300J-T	T	60.9/7.6
C167	4030016790	S.CER C1005 JB 1E 103K-T	T	60.4/10.1
C168	4030017550	S.CER C1005 CH 1H 1R5B-T	T	62.9/6.6
C201	4030017410	S.CER C1005 CH 1H 240J-T	T	113.8/43.7
C202	4030017610	S.CER C1005 CH 1H 090C-T	T	115.2/43.3
C203	4030017360	S.CER C1005 CH 1H 030B-T	T	118.6/45.4
C204	4030017460	S.CER C1005 JB 1H 102K-T	T	119.9/42.7
C205	4030017400	S.CER C1005 CH 1H 220J-T	T	120.1/46.9
C206	4030017370	S.CER C1005 CH 1H 3R5B-T	T	124.9/44.5
C207	4030016930	S.CER C1005 JB 1A 104K-T	T	123.8/46.9
C208	4030017460	S.CER C1005 JB 1H 102K-T	T	124.7/46.9
C209	4030017400	S.CER C1005 CH 1H 220J-T	T	121.9/46.9
C210	4030017760	S.CER C1005 JB 1H 222K-T	T	122.8/46.9
C211	4030017590	S.CER C1005 CH 1H 070C-T	T	123.6/42.0
C213	4030017360	S.CER C1005 CH 1H 030B-T	T	125.3/43.1
C221	4030017360	S.CER C1005 CH 1H 030B-T	T	117.8/35.3
C222	4030017460	S.CER C1005 JB 1H 102K-T	T	117.3/34.0
C223	4030017560	S.CER C1005 CH 1H 2R5B-T	T	115.9/33.7
C224	4030017760	S.CER C1005 JB 1H 222K-T	T	119.8/30.8
C231	4030016790	S.CER C1005 JB 1E 103K-T	T	120.8/29.1
C232	4030017500	S.CER C1005 CH 1H 560J-T	T	113.6/28.4
C233	4030017550	S.CER C1005 CH 1H 1R5B-T	T	112.7/28.4
C234	4030017400	S.CER C1005 CH 1H 220J-T	T	116.8/28.4
C235	4030017460	S.CER C1005 JB 1H 102K-T	T	117.7/28.4
C236	4030016930	S.CER C1005 JB 1A 104K-T	T	118.6/28.4
C237	4030017460	S.CER C1005 JB 1H 102K-T	T	110.9/28.4
C242	4030017360	S.CER C1005 CH 1H 030B-T [USA]	T	101.4/24.0
	4030017570	S.CER C1005 CH 1H 040B-T [UK]		
	4030017570	S.CER C1005 CH 1H 040B-T [EUR]		
	4030017570	S.CER C1005 CH 1H 040B-T [HOL]		
	4030017570	S.CER C1005 CH 1H 040B-T [FRG]		
	4030017360	S.CER C1005 CH 1H 030B-T [USA-01]		
	4030017570	S.CER C1005 CH 1H 040B-T [UK-01]		
	4030017570	S.CER C1005 CH 1H 040B-T [EUR-01]		
	4030017570	S.CER C1005 CH 1H 040B-T [HOL-01]		
	4030017570	S.CER C1005 CH 1H 040B-T [FRG-01]		
	4030017360	S.CER C1005 CH 1H 030B-T [USA-02]		
	4030017570	S.CER C1005 CH 1H 040B-T [EUR-02]		
C245	4030017460	S.CER C1005 JB 1H 102K-T	T	93.1/23.0
C251	4030017640	S.CER C1005 CH 1H 150J-T	T	94.9/23.0
C252	4030016790	S.CER C1005 JB 1E 103K-T	T	92.1/18.5
C253	4030017460	S.CER C1005 JB 1H 102K-T	T	92.1/17.6
C254	4030016790	S.CER C1005 JB 1E 103K-T	T	93.7/17.6
C262	4030017580	S.CER C1005 CH 1H 060C-T	T	111.6/33.3
C264	4030017460	S.CER C1005 JB 1H 102K-T	T	107.6/34.7
C271	4030017420	S.CER C1005 CH 1H 470J-T	T	92.8/11.0
C272	4030018910	S.CER C1608 JB 0J 475K-T	T	89.7/10.8
C273	4030016790	S.CER C1005 JB 1E 103K-T	T	91.5/10.5
C274	4030018890	S.CER C1005 JB 0J 224K-T	T	97.3/15.7
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	94.6/11.0
C276	4030017460	S.CER C1005 JB 1H 102K-T	T	95.1/9.7
C281	4030017440	S.CER C1005 CH 1H 221J-T	T	86.8/10.6
C282	4030017440	S.CER C1005 CH 1H 221J-T	T	85.9/10.6
C283	4030017400	S.CER C1005 CH 1H 220J-T	T	86.4/7.6
C284	4030016930	S.CER C1005 JB 1A 104K-T	T	86.4/13.4
C285	4030016930	S.CER C1005 JB 1A 104K-T	T	86.4/14.3
C286	4030016930	S.CER C1005 JB 1A 104K-T	T	86.4/15.2
C287	4030017460	S.CER C1005 JB 1H 102K-T	T	89.9/17.6
C288	4030016930	S.CER C1005 JB 1A 104K-T	T	89.9/18.5
C289	4030016930	S.CER C1005 JB 1A 104K-T	T	95.2/18.0
C291	4030017350	S.CER C1005 CH 1H 020B-T	T	81.1/15.9
C292	4030017350	S.CER C1005 CH 1H 020B-T	T	82.0/18.0
C293	4030017460	S.CER C1005 JB 1H 102K-T	T	69.8/12.7
C301	4030017550	S.CER C1005 CH 1H 1R5B-T	B	128.1/42.0
C302	4030017360	S.CER C1005 CH 1H 030B-T	B	129.8/42.0
C303	4030017380	S.CER C1005 CH 1H 050B-T	B	129.0/41.0
C304	4030017540	S.CER C1005 CH 1H R75B-T	B	127.2/39.6
C305	4030017540	S.CER C1005 CH 1H R75B-T	B	127.2/37.9
C306	4030017560	S.CER C1005 CH 1H 2R5B-T	B	128.6/37.8
C307	4030017380	S.CER C1005 CH 1H 050B-T	B	128.6/36.9
C308	4030017340	S.CER C1005 CH 1H 010B-T	B	127.2/36.2
C311	4030017460	S.CER C1005 JB 1H 102K-T	B	128.6/32.5
C312	4030017460	S.CER C1005 JB 1H 102K-T	B	126.3/32.2
C321	4030017500	S.CER C1005 CH 1H 560J-T	B	124.7/30.0
C323	4030017400	S.CER C1005 CH 1H 220J-T	B	124.7/30.9
C324	4030017460	S.CER C1005 JB 1H 102K-T	B	124.7/31.8
C325	4030016930	S.CER C1005 JB 1A 104K-T	B	124.7/32.7
C331	4030017460	S.CER C1005 JB 1H 102K-T	B	126.0/27.5
C333	4030017610	S.CER C1005 CH 1H 090C-T	B	120.5/18.6
C336	4030017460	S.CER C1005 JB 1H 102K-T	B	112.9/17.6
C343	4030016790	S.CER C1005 JB 1E 103K-T	B	117.0/16.3
C344	4030016790	S.CER C1005 JB 1E 103K-T	B	113.9/14.8
C352	4030017390	S.CER C1005 CH 1H 180J-T	B	127.5/26.4
C362	4030018910	S.CER C1608 JB 0J 475K-T	T	109.3/10.8
C363	4030016790	S.CER C1005 JB 1E 103K-T	T	111.2/10.5
C364	4030017420	S.CER C1005 CH 1H 470J-T	T	112.5/11.0
C365	4030016930	S.CER C1005 JB 1A 104K-T	T	115.9/15.8
C366	4030016930	S.CER C1005 JB 1A 104K-T	T	116.8/15.8
C367	4030017460	S.CER C1005 JB 1H 102K-T	T	114.2/11.0
C368	4030017460	S.CER C1005 JB 1H 102K-T	T	114.7/9.7
C371	4030017390	S.CER C1005 CH 1H 180J-T	T	108.2/18.0
C372	4030017660	S.CER C1005 CH 1H 330J-T	T	109.1/18.0
C374	4030016930	S.CER C1005 JB 1A 104K-T	T	111.2/18.0
C375	4030016930	S.CER C1005 JB 1A 104K-T	T	106.2/13.9
C376	4030016930	S.CER C1005 JB 1A 104K-T	T	106.2/15.3
C377	4030016930	S.CER C1005 JB 1A 104K-T	T	106.7/12.5
C401	4030016790	S.CER C1005 JB 1E 103K-T	T	117.6/13.0
C402	4030017460	S.CER C1005 JB 1H 102K-T	T	120.9/13.0
C403	4030016930	S.CER C1005 JB 1A 104K-T	T	125.8/19.8
C404	4030017460	S.CER C1005 JB 1H 102K-T	T	122.3/10.3

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C405	4030017760	S.CER C1005 JB 1H 222K-T	T	124.0/14.4
C406	4030017410	S.CER C1005 CH 1H 240J-T	T	126.5/12.1
C407	4030017560	S.CER C1005 CH 1H 2R5B-T	T	127.4/12.1
C408	4030017760	S.CER C1005 JB 1H 222K-T	T	124.9/14.4
C411	4030017540	S.CER C1005 CH 1H R75B-T	T	128.3/12.1
C412	4030017410	S.CER C1005 CH 1H 240J-T	T	129.9/12.9
C413	4030017560	S.CER C1005 CH 1H 2R5B-T	T	129.9/13.8
C414	4030017540	S.CER C1005 CH 1H R75B-T	T	129.5/15.1
C415	4030017410	S.CER C1005 CH 1H 240J-T	T	130.8/18.6
C416	4030017340	S.CER C1005 CH 1H 010B-T	T	130.8/17.7
C417	4030017460	S.CER C1005 JB 1H 102K-T	T	129.6/18.1
C421	4030017460	S.CER C1005 JB 1H 102K-T	T	129.7/23.8
C422	4030017460	S.CER C1005 JB 1H 102K-T	T	126.7/19.8
C423	4030017460	S.CER C1005 JB 1H 102K-T	T	127.6/19.8
C424	4030017590	S.CER C1005 CH 1H 070C-T	T	128.4/24.2
C425	4030016790	S.CER C1005 JB 1E 103K-T	T	126.2/17.7
C501	4510010250	S.ELE 16 CE 22 LD	T	11.9/51.2
C502	4030017460	S.CER C1005 JB 1H 102K-T	T	44.3/50.6
C503	4030011600	S.CER C1608 JB 1E 104K-T	T	44.8/51.7
C504	4030017460	S.CER C1005 JB 1H 102K-T	T	5.9/52.8
C505	4030011600	S.CER C1608 JB 1E 104K-T	T	7.0/52.9
C506	4030017730	S.CER C1005 JB 1H 471K-T	B	42.5/53.8
C507	4030016790	S.CER C1005 JB 1E 103K-T	B	43.4/53.8
C508	4030017430	S.CER C1005 CH 1H 101J-T	T	44.3/49.7
C509	4030017730	S.CER C1005 JB 1H 471K-T	T	22.2/53.8
C510	4030016790	S.CER C1005 JB 1E 103K-T	T	23.1/53.8
C511	4030016790	S.CER C1005 JB 1E 103K-T	T	43.5/42.5
C512	4030016790	S.CER C1005 JB 1E 103K-T	T	39.6/44.0
C513	4030020250	S.CER GRM21BB11A225KA01L	T	37.7/40.0
C514	4030017460	S.CER C1005 JB 1H 102K-T	T	38.1/42.4
C516	4030017460	S.CER C1005 JB 1H 102K-T	T	39.6/53.5
C517	4030017460	S.CER C1005 JB 1H 102K-T	T	42.8/54.4
C521	4030017490	S.CER C1608 JB 1A 105K-T	B	32.9/34.0
C522	4030018890	S.CER C1005 JB 0J 224K-T	B	28.7/32.5
C523	4030018890	S.CER C1005 JB 0J 224K-T	B	28.7/29.2
C524	4030018910	S.CER C1608 JB 0J 475K-T	B	67.2/9.0
C525	4030017460	S.CER C1005 JB 1H 102K-T	B	68.3/8.7
C526	4030017460	S.CER C1005 JB 1H 102K-T	B	35.7/29.7
C528	4030017490	S.CER C1608 JB 1A 105K-T	B	64.9/3.6
C530	4030017490	S.CER C1608 JB 1A 105K-T	B	58.1/4.3
C531	4030019620	S.CER GRM188B31C225KE14D	B	59.7/6.5
C532	4030017760	S.CER C1005 JB 1H 222K-T	B	60.4/9.8
C533	4030018080	S.CER C1005 JB 1H 182K-T	B	60.1/7.6
C535	4030018890	S.CER C1005 JB 0J 224K-T	B	58.6/11.5
C536	4030017030	S.CER C1005 JB 1A 273K-T	B	58.6/14.9
C537	4030017030	S.CER C1005 JB 1A 273K-T	B	61.7/15.1
C538	4030016930	S.CER C1005 JB 1A 104K-T	B	57.7/14.9
C539	4030017490	S.CER C1608 JB 1A 105K-T	B	68.8/10.9
C541	4030017490	S.CER C1608 JB 1A 105K-T	T	63.7/20.4
C560	4030019620	S.CER GRM188B31C225KE14D	B	57.4/18.7
C571	4030016790	S.CER C1005 JB 1E 103K-T	B	77.8/12.8
C576	4030018890	S.CER C1005 JB 0J 224K-T	B	71.8/17.3
C578	4030017460	S.CER C1005 JB 1H 102K-T	B	69.6/17.1
C602	4030016790	S.CER C1005 JB 1E 103K-T	B	7.4/44.1
C603	4030016930	S.CER C1005 JB 1A 104K-T	B	7.4/43.2
C604	4030016930	S.CER C1005 JB 1A 104K-T	B	12.9/46.0
C605	4030016790	S.CER C1005 JB 1E 103K-T	B	12.9/46.9
C607	4030020310	S.CER GRM31CB31C106KA88L	B	11.0/46.0
C611	4510009920	S.ELE 16 CE 100 LH	T	12.5/44.7
C612	4030016790	S.CER C1005 JB 1E 103K-T	T	6.4/40.8
C613	4030016930	S.CER C1005 JB 1A 104K-T	T	5.5/40.8
C614	4030011600	S.CER C1608 JB 1E 104K-T	T	6.6/34.1
C615	4030016790	S.CER C1005 JB 1E 103K-T	T	7.7/34.1
C616	4510009920	S.ELE 16 CE 100 LH	T	12.5/37.6
C620	4030017460	S.CER C1005 JB 1H 102K-T	B	9.7/43.0
C621	4510010300	S.ELE 16 CE 470 AX	T	28.0/53.0
C622	4030011600	S.CER C1608 JB 1E 104K-T	T	20.6/46.1
C623	4030017440	S.CER C1005 CH 1H 221J-T	T	19.5/46.6
C624	4030017460	S.CER C1005 JB 1H 102K-T	T	18.6/46.6
C625	4030017430	S.CER C1005 CH 1H 101J-T	B	45.1/52.0
C626	4030017420	S.CER C1005 CH 1H 470J-T	B	44.2/52.0
C627	4030017730	S.CER C1005 JB 1H 471K-T	B	51.1/46.6
C628	4030017400	S.CER C1005 CH 1H 220J-T	B	50.2/46.6
C629	4030017400	S.CER C1005 CH 1H 220J-T	B	57.2/56.0
C630	4030017430	S.CER C1005 CH 1H 101J-T	B	58.1/56.0
C631	4030017730	S.CER C1005 JB 1H 471K-T	B	13.7/39.1
C636	4030016790	S.CER C1005 JB 1E 103K-T	T	30.4/21.3
C637	4510010250	S.ELE 16 CE 22 LD	T	28.7/26.5
C640	4030017460	S.CER C1005 JB 1H 102K-T	B	25.6/21.0
C641	4030017510	S.CER C1005 CH 1H 680J-T	B	27.4/20.9
C642	4030018920	S.CER C1005 JB 1H 392K-T	B	24.7/19.3
C643	4030017460	S.CER C1005 JB 1H 102K-T	B	22.4/19.0
C644	4030016790	S.CER C1005 JB 1E 103K-T	B	26.4/10.3
C649	4030017460	S.CER C1005 JB 1H 102K-T	B	27.7/9.8
C650	4030018910	S.CER C1608 JB 0J 475K-T	B	27.4/8.7
C651	4030016790	S.CER C1005 JB 1E 103K-T	B	27.5/7.2
C662	4030020270	S.CER GRM188B11A105KA61D	B	33.9/16.7
C663	4030017460	S.CER C1005 JB 1H 102K-T	B	29.0/20.4
C664	4030016790	S.CER C1005 JB 1E 103K-T	T	27.0/20.1
C669	4030017460	S.CER C1005 JB 1H 102K-T	B	29.8/8.0
C681	4030016790	S.CER C1005 JB 1E 103K-T	T	52.0/27.4
C682	4030018910	S.CER C1608 JB 0J 475K-T	T	51.6/25.6
C683	4030016790	S.CER C1005 JB 1E 103K-T	T	39.1/30.4
C686	4030019460	S.CER C1608 JB 0J 106M-T	T	57.1/31.0
C701	4030016930	S.CER C1005 JB 1A 104K-T	B	87.3/12.4
C702	4030017790	S.CER C1005 JB 1H 682K-T	B	86.4/10.7
C703	4030016970	S.CER C1005 JB 1E 223K-T	B	82.8/10.7
C704	4030017760	S.CER C1005 JB 1H 222K-T	B	83.7/10.7
C705	4030017790	S.CER C1005 JB 1H 682K-T	B	81.0/10.7
C706	4030016790	S.CER C1005 JB 1E 103K-T	B	80.1/10.7
C707	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/14.1
C708	4030016930	S.CER C1005 JB 1A 104K-T	B	84.6/14.1
C711	4030016930	S.CER C1005 JB 1A 104K-T	B	88.7/5.1
C712	4030017790	S.CER C1005 JB 1H 682K-T	B	86.4/3.0
C713	4030016970	S.CER C1005 JB 1E 223K-T	B	82.8/3.0

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C714	4030017760	S.CER C1005 JB 1H 222K-T	B	83.7/3.0
C715	4030017790	S.CER C1005 JB 1H 682K-T	B	81.0/3.0
C716	4030016790	S.CER C1005 JB 1E 103K-T	B	80.1/4.7
C717	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/6.3
C718	4030016930	S.CER C1005 JB 1A 104K-T	B	84.6/6.3
C721	4030017680	S.CER C1005 CH 1H 820J-T	B	88.2/14.1
C722	4030016790	S.CER C1005 JB 1E 103K-T	B	89.1/6.3
C724	4030017730	S.CER C1005 JB 1H 471K-T	T	33.2/13.3
C725	4030017680	S.CER C1005 CH 1H 820J-T	T	60.0/4.8
C726	4030017460	S.CER C1005 JB 1H 102K-T	T	86.5/3.2
C727	4030017460	S.CER C1005 JB 1H 102K-T	T	38.3/14.1
C728	4030016790	S.CER C1005 JB 1E 103K-T	T	37.3/14.1
C732	4030017460	S.CER C1005 JB 1H 102K-T	T	36.7/4.5
C734	4030017440	S.CER C1005 CH 1H 221J-T	T	35.7/4.5
C742	4030011600	S.CER C1608 JB 1E 104K-T	B	19.0/14.0
C743	4030017440	S.CER C1005 CH 1H 221J-T	T	31.7/17.7
C744	4030011600	S.CER C1608 JB 1E 104K-T	B	11.2/10.8
C745	4030017460	S.CER C1005 JB 1H 102K-T	B	7.1/9.2
C746	4030017490	S.CER C1608 JB 1A 105K-T	B	18.1/18.4
C748	4030017460	S.CER C1005 JB 1H 102K-T	T	5.0/9.4
C751	4030017440	S.CER C1005 CH 1H 221J-T	B	19.6/20.5
C752	4030011600	S.CER C1608 JB 1E 104K-T	B	17.8/21.9
C753	4030011600	S.CER C1608 JB 1E 104K-T	B	9.3/12.7
C754	4030017460	S.CER C1005 JB 1H 102K-T	B	8.0/14.2
C761	4030017460	S.CER C1005 JB 1H 102K-T	B	7.1/11.8
C762	4510009920	S.ELE 16 CE 100 LH	T	11.2/13.7
C763	4030020310	S.CER GRM31CB31C106KA88L	T	5.2/15.1
C764	4030017480	S.CER C1608 JB 1A 474K-T	B	7.9/20.3
C765	4510010300	S.ELE 16 CE 470 AX	T	13.3/29.6
C766	4030011600	S.CER C1608 JB 1E 104K-T	T	6.5/28.8
C767	4030017460	S.CER C1005 JB 1H 102K-T	T	7.6/27.1
C768	4030017460	S.CER C1005 JB 1H 102K-T	T	7.6/26.2
C769	4030017460	S.CER C1005 JB 1H 102K-T	B	11.5/39.1
C770	4030011600	S.CER C1608 JB 1E 104K-T	B	12.6/39.2
C772	4030011600	S.CER C1608 JB 1E 104K-T	B	8.9/29.5
C773	4030011600	S.CER C1608 JB 1E 104K-T	B	8.9/32.3
C775	4030017440	S.CER C1005 CH 1H 221J-T	B	21.4/33.6
C776	4030017440	S.CER C1005 CH 1H 221J-T	B	21.4/32.1
C777	4030017440	S.CER C1005 CH 1H 221J-T	B	24.5/33.6
C778	4030017440	S.CER C1005 CH 1H 221J-T	B	24.5/32.1
C782	4030011600	S.CER C1608 JB 1E 104K-T	B	8.9/22.9
C783	4030011600	S.CER C1608 JB 1E 104K-T	B	8.9/25.7
C785	4030017440	S.CER C1005 CH 1H 221J-T	B	13.1/24.5
C786	4030017440	S.CER C1005 CH 1H 221J-T	B	13.8/26.8
C787	4030017440	S.CER C1005 CH 1H 221J-T	B	16.4/32.1
C788	4030017440	S.CER C1005 CH 1H 221J-T	B	18.1/32.1
C791	4030017460	S.CER C1005 JB 1H 102K-T	T	5.5/10.7
C792	4030016930	S.CER C1005 JB 1A 104K-T	T	6.4/10.7
C806	4030017460	S.CER C1005 JB 1H 102K-T	T	37.7/4.5
C811	4030017460	S.CER C1005 JB 1H 102K-T	T	40.3/14.1
C812	4030017460	S.CER C1005 JB 1H 102K-T	T	40.7/4.5
C813	4030017460	S.CER C1005 JB 1H 102K-T	T	41.7/15.3
C814	4030017460	S.CER C1005 JB 1H 102K-T	T	41.7/4.5
C816	4030017460	S.CER C1005 JB 1H 102K-T	T	42.7/4.5
C818	4030017460	S.CER C1005 JB 1H 102K-T	T	43.7/4.5
C820	4030017460	S.CER C1005 JB 1H 102K-T	T	44.7/4.5
C821	4030017460	S.CER C1005 JB 1H 102K-T	T	45.3/14.1
C823	4030017460	S.CER C1005 JB 1H 102K-T	T	46.3/14.1
C825	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/14.1
C827	4030017460	S.CER C1005 JB 1H 102K-T	T	48.3/14.1
C830	4030017400	S.CER C1005 CH 1H 220J-T	T	49.7/4.5
C832	4030017400	S.CER C1005 CH 1H 220J-T	T	50.7/4.5
C834	4030017460	S.CER C1005 JB 1H 102K-T	T	51.7/4.5
C836	4030017460	S.CER C1005 JB 1H 102K-T	T	52.7/4.5
C838	4030017460	S.CER C1005 JB 1H 102K-T	T	53.7/4.5
C841	4030017490	S.CER C1608 JB 1A 105K-T	B	40.8/25.9
C842	4030017460	S.CER C1005 JB 1H 102K-T	B	50.7/25.6
C843	4030016930	S.CER C1005 JB 1A 104K-T	B	42.3/21.4
C901	4030016930	S.CER C1005 JB 1A 104K-T	T	53.3/23.3
C902	4030017460	S.CER C1005 JB 1H 102K-T	T	51.5/19.5
C903	4030016930	S.CER C1005 JB 1A 104K-T	B	44.1/31.8
C904	4030016930	S.CER C1005 JB 1A 104K-T	B	51.0/28.2
C905	4030016930	S.CER C1005 JB 1A 104K-T	B	49.2/28.2
C906	4030016930	S.CER C1005 JB 1A 104K-T	B	43.2/31.8
C907	4030019620	S.CER GRM188B31C225KE14D	B	38.5/37.4
C908	4030016790	S.CER C1005 JB 1E 103K-T	B	36.1/37.0
C910	4030019560	S.CER GRM21BB31C106KE15L	B	41.6/29.3
C911	4550008240	S.TAN F930G476MAA	B	40.3/39.7
C912	4030016930	S.CER C1005 JB 1A 104K-T	B	59.7/34.7
C913	4030016930	S.CER C1005 JB 1A 104K-T	B	60.1/41.5
C914	4030016930	S.CER C1005 JB 1A 104K-T	B	52.1/43.9
C915	4030017770	S.CER C1005 JB 1H 332K-T	B	59.7/39.3
C916	4030017040	S.CER C1005 JB 1A 333K-T	B	61.5/40.2
C917	4030016930	S.CER C1005 JB 1A 104K-T	B	43.2/37.4
C918	4030016930	S.CER C1005 JB 1A 104K-T	B	44.1/35.6
C919	4030019560	S.CER GRM21BB31C106KE15L	B	46.6/27.8
C921	4030016930	S.CER C1005 JB 1A 104K-T	B	52.6/28.2
C922	4030016930	S.CER C1005 JB 1A 104K-T	B	59.7/33.0
C923	4030016930	S.CER C1005 JB 1A 104K-T	B	60.6/39.3
C924	4030016930	S.CER C1005 JB 1A 104K-T	B	54.6/43.9
C925	4030019560	S.CER GRM21BB31C106KE15L	B	53.6/26.8
C931	4030018920	S.CER C1005 JB 1H 392K-T	T	57.3/28.6
C932	4030018080	S.CER C1005 JB 1H 182K-T	T	59.1/28.6
C933	4030020010	S.CER C1005 CH 1H 271J-T	T	60.3/28.1
C934	4030016790	S.CER C1005 JB 1E 103K-T	T	60.2/23.3
J1	6510025142	S.CON 10FLT-SM2-TB(LF)(SN)(M)	T	40.9/47.3
J2	6510022472	S.CON 40FLT-SM2-TB(LF)(SN)(M)	T	45.0/9.3
J3	6510018971	S.CON B4B-PH-SM4-TB(LF)(SN)	B	20.7/25.8
F1	5210001160	S.FUS ERBRE3R00V	T	3.8/48.8

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
W1	7030012290	JUM	RDS2T0R0		
W2	8900014871	CAB	OPC-1332A-1(P0.5N40L100)		
W3	8900020400	CAB	OPC-2216 <TJM>		
EP401	6910016330	S.BEA	MMZ1005S 601CT-S	T	123.7/21.0
EP701	6910016330	S.BEA	MMZ1005S 601CT-S	B	8.2/10.1
EP702	6910016330	S.BEA	MMZ1005S 601CT-S	B	8.9/14.2
EP703	6910019100	S.BEA	MPZ1608S101AT	B	20.0/33.0
EP704	6910019100	S.BEA	MPZ1608S101AT	B	23.1/33.0
EP705	6910019100	S.BEA	MPZ1608S101AT	B	12.7/26.4
EP706	6910019100	S.BEA	MPZ1608S101AT	B	17.6/33.2

[LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
IC1	1140016243	S.IC	STM32F100ZET6B(FX3338A3)	B	79.0/30.0
IC2	1110006740	S.IC	LMV358IPWR	B	37.0/36.0
IC3	1130009981	S.IC	TC7W53FK(TE85LF)	B	38.5/31.8
IC4	1180003570	S.REG	NJM2830U1-33-TE1-#ZZZB	B	33.0/10.5
IC5	1130016110	S.IC	TC7WH14FK(TE85LF)	B	54.6/13.3
IC6	1130008711	S.IC	TC7SET04FU(T5LJF)	B	47.7/40.2
IC7	1130016110	S.IC	TC7WH14FK(TE85LF)	B	54.5/39.0
IC8	1170000352	S.IC	PC357N6J000F	B	127.0/36.0
IC9	1130016810	S.IC	GT24C256-2GLI-TR <MSK>	B	84.0/49.5
IC10	1110007620	S.IC	NJU7704F3-42A-TE1-#ZZZB	B	43.3/11.2
IC11	1110003650	S.IC	NJM2211M-TE1-#ZZZB	B	34.5/45.5
IC12	1130009301	S.IC	TC7SET08FU(T5LJF)	B	46.1/53.7
Q3	1590001330	S.TRA	DTA114EUA T106	B	54.9/16.9
Q4	1530004140	S.TRA	L2SC4081RT1G <SLVJ>	B	53.9/20.8
Q5	1530004140	S.TRA	L2SC4081RT1G <SLVJ>	B	50.2/36.5
Q6	1510001151	S.TRA	L2SA1576AST1G <SLVJ>	B	47.4/36.8
Q7	1560000541	S.FET	2SK880-Y(T5RICOMF)	B	53.0/35.3
Q8	1530004140	S.TRA	L2SC4081RT1G <SLVJ>	B	134.2/36.7
Q9	1590000710	S.TRA	DTC124EUA T106	B	132.2/38.9
D3	1750001810	S.DIO	L1SS400T1G <SLVJ>	B	55.9/19.6
D4	1750001810	S.DIO	L1SS400T1G <SLVJ>	B	130.5/33.2
D5	1750001180	S.DIO	KDS122 RTK/P	B	134.2/33.6
D7	1790001990	S.VAR	EZJP0V080DA	B	134.5/29.7
X1	6050012460	S.XTA	CR-834(SMD-49/7.9872 MHz) <JJE>	B	97.5/27.5
R1	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	65.3/34.8
R2	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	65.3/35.8
R3	7410001130	S.ARR	EXB28V102JX	B	49.5/30.5
R5	7030004970	S.RES	ERJ2GEJ 470 X (47)	B	61.5/22.1
R7	7030010040	S.RES	ERJ2GEJ-JPW	B	64.8/20.9
R11	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	72.0/43.3
R12	7410001230	S.ARR	EXB28V101JX	B	58.5/32.5
R16	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	82.4/43.7
R17	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	46.3/51.8
R21	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	72.3/16.7
R22	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	73.7/16.3
R23	7410001130	S.ARR	EXB28V102JX	B	58.8/26.0
R24	7410001140	S.ARR	EXB28V104JX	B	64.0/24.4
R25	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	79.1/16.7
R26	7030005600	S.RES	ERJ2GEJ 273 X (27K)	B	86.3/16.7
R27	7030007290	S.RES	ERJ2GEJ 222 X (2.2K) [USA]	B	86.9/14.7
	7030009290	S.RES	ERJ2GEJ 562 X (5.6K) [UK]		
	7030008010	S.RES	ERJ2GEJ 123 X (12K) [EUR]		
	7030009710	S.RES	ERJ2GEJ 203 X (20K) [HOL]		
	7030005060	S.RES	ERJ2GEJ 333 X (33K) [FRG]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K) [USA-01]		
	7030009290	S.RES	ERJ2GEJ 562 X (5.6K) [UK-01]		
	7030008010	S.RES	ERJ2GEJ 123 X (12K) [EUR-01]		
	7030009710	S.RES	ERJ2GEJ 203 X (20K) [HOL-01]		
	7030005060	S.RES	ERJ2GEJ 333 X (33K) [FRG-01]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K) [USA-02]		
	7030008010	S.RES	ERJ2GEJ 123 X (12K) [EUR-02]		
R28	7030011670	S.RES	ERJ2RKF 3902 (39K)	B	85.1/12.9
R29	7030012320	S.RES	ERJ2RKD 2203X (220K)	B	85.1/11.9
R34	7030004980	S.RES	ERJ2GEJ 101 X (100)	B	92.8/27.2
R51	7030005530	S.RES	ERJ2GEJ 100 X (10)	B	38.3/40.4
R52	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	108.2/27.5
R53	7030005170	S.RES	ERJ2GEJ 474 X (470K)	B	35.3/39.8
R54	7030007350	S.RES	ERJ2GEJ 393 X (39K)	B	33.7/50.4
R55	7030012740	S.RES	ERJ2RHD 1602X (16.0K)	B	35.1/50.8
R56	7030008400	S.RES	ERJ2GEJ 182 X (1.8K)	B	34.1/51.8
R57	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	31.9/50.4
R61	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	87.7/46.3
R62	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	87.7/45.3
R65	7030008010	S.RES	ERJ2GEJ 123 X (12K)	B	45.7/8.3
R66	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	39.8/12.1
R67	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	40.2/10.7
R71	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	42.5/36.0
R73	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	32.5/36.2
R74	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	35.8/33.6
R75	7030004980	S.RES	ERJ2GEJ 101 X (100)	B	34.0/32.1
R81	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	57.4/13.8
R82	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	56.9/16.9
R83	7030005530	S.RES	ERJ2GEJ 100 X (10)	B	58.1/20.9
R84	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	54.4/18.7
R85	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	52.8/13.3
R90	7030005220	S.RES	ERJ2GEJ 223 X (22K)	B	50.9/39.4
R91	7030005040	S.RES	ERJ2GEJ 472 X (4.7K)	B	49.5/39.0
R92	7030004970	S.RES	ERJ2GEJ 470 X (47)	B	48.7/35.0
R95	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	54.0/32.5
R96	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	54.0/33.5
R97	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	B	55.5/35.8
R101	7030005120	S.RES	ERJ2GEJ 102 X (1K)	B	121.7/38.3
R102	7030005040	S.RES	ERJ2GEJ 472 X (4.7K)	B	122.2/35.1
R103	7030009270	S.RES	ERJ2GEJ 821 X (820)	B	129.6/32.0
R106	7030005040	S.RES	ERJ2GEJ 472 X (4.7K)	B	136.0/34.6
R107	7030010430	S.RES	ERJ2GEJ 120 X (12)	B	132.4/35.4
R108	7030005090	S.RES	ERJ2GEJ 104 X (100K)	B	134.5/28.8
R111	7030005050	S.RES	ERJ2GEJ 103 X (10K)	B	3.7/17.5
R113	7030003520	S.RES	ERJ3GEYJ 472 V (4.7K)	B	5.7/18.0
R116	7030005240	S.RES	ERJ2GEJ 473 X (47K)	B	44.0/54.2
C1	4030016930	S.CER	C1005 JB 1A 104K-T	B	70.5/16.7
C2	4030016930	S.CER	C1005 JB 1A 104K-T	B	65.8/38.5
C3	4030016930	S.CER	C1005 JB 1A 104K-T	B	87.7/43.3
C4	4030016930	S.CER	C1005 JB 1A 104K-T	B	88.1/16.7

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C5	4030016930	S.CER C1005 JB 1A 104K-T	B	92.3/31.0
C6	4030016930	S.CER C1005 JB 1A 104K-T	B	80.5/15.0
C7	4030016930	S.CER C1005 JB 1A 104K-T	B	75.5/16.7
C8	4030016930	S.CER C1005 JB 1A 104K-T	B	65.7/26.5
C9	4030016930	S.CER C1005 JB 1A 104K-T	B	65.3/32.0
C10	4030016930	S.CER C1005 JB 1A 104K-T	B	76.0/43.3
C11	4030016930	S.CER C1005 JB 1A 104K-T	B	81.0/43.3
C12	4030016930	S.CER C1005 JB 1A 104K-T	B	92.3/36.0
C13	4030017460	S.CER C1005 JB 1H 102K-T	B	70.5/15.7
C14	4030017460	S.CER C1005 JB 1H 102K-T	B	64.8/38.5
C15	4030017460	S.CER C1005 JB 1H 102K-T	B	87.7/44.3
C16	4030017460	S.CER C1005 JB 1H 102K-T	B	88.7/15.7
C17	4030016790	S.CER C1005 JB 1E 103K-T	B	93.3/31.0
C18	4030016790	S.CER C1005 JB 1E 103K-T	B	80.5/14.0
C19	4030016790	S.CER C1005 JB 1E 103K-T	B	64.7/26.5
C20	4030016790	S.CER C1005 JB 1E 103K-T	B	76.0/44.3
C24	4030017460	S.CER C1005 JB 1H 102K-T	B	67.0/45.2
C25	4030016930	S.CER C1005 JB 1A 104K-T	B	63.8/45.2
C26	4030020300	S.CER GRM21BB31C475KA87L	B	92.8/20.9
C27	4030016790	S.CER C1005 JB 1E 103K-T	B	94.2/20.4
C31	4030016950	S.CER C1005 JB 1A 473K-T	B	85.5/15.3
C32	4030016950	S.CER C1005 JB 1A 473K-T	B	84.5/16.3
C33	4030016950	S.CER C1005 JB 1A 473K-T	B	85.1/13.9
C35	4030016950	S.CER C1005 JB 1A 473K-T	B	92.8/23.2
C36	4030016950	S.CER C1005 JB 1A 473K-T	B	92.8/24.2
C37	4030016950	S.CER C1005 JB 1A 473K-T	B	92.8/25.2
C38	4030016950	S.CER C1005 JB 1A 473K-T	B	92.8/26.2
C43	4030017410	S.CER C1005 CH 1H 240J-T	B	94.3/28.5
C44	4030017410	S.CER C1005 CH 1H 240J-T	B	94.3/26.7
C57	4030016930	S.CER C1005 JB 1A 104K-T	B	87.3/48.5
C61	4030016790	S.CER C1005 JB 1E 103K-T	B	106.8/27.1
C62	4030017760	S.CER C1005 JB 1H 222K-T	B	39.3/41.3
C63	4030019990	S.CER C1005 JB 1C 104K-T	B	40.3/41.3
C64	4030016790	S.CER C1005 JB 1E 103K-T	B	37.0/40.4
C65	4030018890	S.CER C1005 JB 0J 224K-T	B	35.3/40.8
C66	4030017760	S.CER C1005 JB 1H 222K-T	B	30.5/50.8
C67	4030016930	S.CER C1005 JB 1A 104K-T	B	29.1/50.4
C68	4030016790	S.CER C1005 JB 1E 103K-T	B	32.8/51.8
C69	4340000310	S.MYL ECHU 1C 333JX5	B	38.2/50.7
C71	4030017920	S.CER C1005 JB 1A 683K-T	B	43.0/13.3
C72	4030017480	S.CER C1608 JB 1A 474K-T	B	41.4/11.2
C74	4030017460	S.CER C1005 JB 1H 102K-T	B	44.0/9.1
C81	4030016930	S.CER C1005 JB 1A 104K-T	B	37.6/33.6
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	39.2/30.0
C83	4030019990	S.CER C1005 JB 1C 104K-T	B	34.0/33.1
C84	4030017460	S.CER C1005 JB 1H 102K-T	B	33.6/34.1
C85	4030020300	S.CER GRM21BB31C475KA87L	B	38.8/8.8
C86	4030017460	S.CER C1005 JB 1H 102K-T	B	40.3/8.9
C87	4030016790	S.CER C1005 JB 1E 103K-T	B	38.4/11.6
C88	4030020240	S.CER GRM31CR11C475KA01L	B	36.8/10.5
C89	4030017460	S.CER C1005 JB 1H 102K-T	B	41.5/33.8
C91	4030016930	S.CER C1005 JB 1A 104K-T	B	56.4/13.8
C92	4030017460	S.CER C1005 JB 1H 102K-T	B	57.1/20.0
C95	4030016790	S.CER C1005 JB 1E 103K-T	B	49.5/40.8
C96	4030016930	S.CER C1005 JB 1A 104K-T	B	55.5/34.8
C101	4030017460	S.CER C1005 JB 1H 102K-T	B	120.2/36.9
C102	4030016930	S.CER C1005 JB 1A 104K-T	B	121.2/36.9
C103	4030016790	S.CER C1005 JB 1E 103K-T	B	122.2/36.9
C104	4030017920	S.CER C1005 JB 1A 683K-T	B	131.4/32.0
C105	4030017460	S.CER C1005 JB 1H 102K-T	B	131.4/30.0
C106	4030017460	S.CER C1005 JB 1H 102K-T	B	128.2/30.6
C107	4030016930	S.CER C1005 JB 1A 104K-T	B	136.9/34.6
C108	4030017460	S.CER C1005 JB 1H 102K-T	B	134.5/27.9
C111	4030016790	S.CER C1005 JB 1E 103K-T	B	45.8/26.5
C112	4030020310	S.CER GRM31CB31C106KA88L	B	44.6/29.6
C113	4030016790	S.CER C1005 JB 1E 103K-T	B	26.3/19.4
C114	4030017460	S.CER C1005 JB 1H 102K-T	B	27.3/19.4
C115	4030017460	S.CER C1005 JB 1H 102K-T	B	24.1/26.2
C116	4030017460	S.CER C1005 JB 1H 102K-T	B	23.2/22.1
C155	4030016790	S.CER C1005 JB 1E 103K-T	B	27.7/26.9
C162	4030016930	S.CER C1005 JB 1A 104K-T	B	7.2/16.3
C165	4030017460	S.CER C1005 JB 1H 102K-T	B	16.2/15.3
C166	4030017460	S.CER C1005 JB 1H 102K-T	B	16.2/16.3
J1	6510022472	S.CON 40FLT-SM2-TB(LF)(SN)(M)	B	35.0/23.0
J4	6510018971	S.CON B4B-PH-SM4-TB(LF)(SN)	B	127.0/22.5
EP11	6910016330	S.BEA MMZ1005S 601CT-S	B	129.6/31.0

[CONNECT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C1	4030016790	S.CER C1005 JB 1E 103K-T	B	2.1/11.9
J1	6510022440	CON LTW-8MP-C NUTGASKET <LIA>		
J2	6510025142	S.CON 10FLT-SM2-TB(LF)(SN)(M)	B	4.3/15.0
EP2	6910019100	S.BEA MPZ1608S101AT	B	4.5/19.1

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

[VCO UNIT]

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
Q2	1590004070	S.TRA	LDTC144EET1G <SLVJ>	T	13.4/9.3
Q3	1530002921	S.TRA	2SC4226-T1 Y25 (R25)	T	11.9/2.8
Q4	1530002921	S.TRA	2SC4226-T1 Y25 (R25)	T	18.6/2.3
Q5	1530003950	S.TRA	KTC4080 Y-RTK/P	T	7.1/6.9
Q6	1530003950	S.TRA	KTC4080 Y-RTK/P	T	4.9/2.6
Q7	1530003950	S.TRA	KTC4080 Y-RTK/P	T	5.4/11.3
Q8	1590004050	S.TRA	LDTA144EET1G <SLVJ>	T	11.4/12.5
D1	1750001700	S.DIO	HSC277TRF-E	T	11.5/10.0
D2	1750001700	S.DIO	HSC277TRF-E	T	13.3/7.7
D3	1750001780	S.VAR	HVB350BYPTL-E	T	14.4/5.6
L1	6200003711	S.COI	NLV25T-2R7J	T	18.2/9.2
L2	6200011410	S.COI	C2520C-82NG-A	T	17.9/5.9
L3	6200013750	S.COI	MLK1005SR10JT	T	5.7/8.3
L4	6200013750	S.COI	MLK1005SR10JT	T	3.5/4.0
L5	6200013750	S.COI	MLK1005SR10JT	T	4.0/12.7
R6	7030009320	S.RES	ERJ2GEJ 4R7 X (4.7)	T	7.5/10.8
R7	7030005120	S.RES	ERJ2GEJ 102 X (1K)	T	16.4/11.0
R8	7030005240	S.RES	ERJ2GEJ 473 X (47K)	T	16.2/9.8
R9	7030005120	S.RES	ERJ2GEJ 102 X (1K)	T	16.2/8.9
R11	7030005000	S.RES	ERJ2GEJ 471 X (470)	T	10.0/12.0
R12	7030005090	S.RES	ERJ2GEJ 104 X (100K)	T	18.5/13.7
R13	7030007340	S.RES	ERJ2GEJ 153 X (15K)	T	15.5/13.3
R14	7030005090	S.RES	ERJ2GEJ 104 X (100K)	T	18.5/12.8
R15	7030005090	S.RES	ERJ2GEJ 104 X (100K)	T	13.4/12.8
R16	7030005050	S.RES	ERJ2GEJ 103 X (10K)	T	9.4/13.2
R21	7030005050	S.RES	ERJ2GEJ 103 X (10K)	T	9.9/1.4
R22	7030005050	S.RES	ERJ2GEJ 103 X (10K)	T	20.7/1.7
R23	7030009160	S.RES	ERJ2GEJ 181 X (180)	T	15.6/2.2
R25	7030008370	S.RES	ERJ2GEJ 561 X (560)	T	9.9/3.2
R26	7030005010	S.RES	ERJ2GEJ 681 X (680)	T	6.9/9.6
R27	7030005070	S.RES	ERJ2GEJ 683 X (68K)	T	7.6/5.1
R31	7030005000	S.RES	ERJ2GEJ 471 X (470)	T	4.3/5.6
R32	7030005070	S.RES	ERJ2GEJ 683 X (68K)	T	6.8/1.7
R33	7030007270	S.RES	ERJ2GEJ 151 X (150)	T	2.9/5.3
R34	7030009200	S.RES	ERJ2GEJ 390 X (39)	T	1.8/4.4
R41	7030005000	S.RES	ERJ2GEJ 471 X (470)	T	3.5/9.5
R42	7030007350	S.RES	ERJ2GEJ 393 X (39K)	T	5.1/9.5
R43	7030003860	S.RES	ERJ3GE JPW V	T	16.1/3.7
C4	4030017460	S.CER	C1005 JB 1H 102K-T	T	18.3/11.3
C6	4030016790	S.CER	C1005 JB 1E 103K-T	T	3.5/7.5
C8	4030017460	S.CER	C1005 JB 1H 102K-T	T	15.2/10.8
C9	4030017460	S.CER	C1005 JB 1H 102K-T	T	15.0/9.5
C11	4030017460	S.CER	C1005 JB 1H 102K-T	T	12.8/10.8
C12	4030017460	S.CER	C1005 JB 1H 102K-T	T	14.0/11.3
C13	4030018860	S.CER	C1005 JB 0J 105K-T	T	13.4/13.7
C14	4030017460	S.CER	C1005 JB 1H 102K-T	T	14.6/13.3
C15	4030017460	S.CER	C1005 JB 1H 102K-T	T	17.3/13.3
C16	4030011810	S.CER	C1608 JB 1A 224K-T	T	10.3/9.9
C21	4030018010	S.CER	C1005 CH 1H 360J-T	T	16.2/8.0
C22	4030017670	S.CER	C1005 CH 1H 390J-T	T	15.0/7.6
C24	4030017760	S.CER	C1005 JB 1H 222K-T	T	11.6/7.0
C31	4030017350	S.CER	C1005 CH 1H 020B-T	T	12.2/4.7
C32	4030017550	S.CER	C1005 CH 1H 1R5B-T	T	20.4/3.3
C33	4030017440	S.CER	C1005 CH 1H 221J-T	T	15.6/1.3
C34	4030017460	S.CER	C1005 JB 1H 102K-T	T	9.9/4.1
C35	4030006860	S.CER	C1608 JB 1H 102K-T	T	14.1/2.7
C36	4030017340	S.CER	C1005 CH 1H 010B-T	T	9.9/2.3
C37	4030017460	S.CER	C1005 JB 1H 102K-T	T	7.0/8.7
C41	4030017380	S.CER	C1005 CH 1H 050B-T	T	6.8/3.3
C42	4030017460	S.CER	C1005 JB 1H 102K-T	T	4.8/4.4
C43	4030017400	S.CER	C1005 CH 1H 220J-T	T	2.5/3.1
C46	4030017630	S.CER	C1005 CH 1H 120J-T	T	4.8/8.3
C47	4030017460	S.CER	C1005 JB 1H 102K-T	T	3.5/8.4
C48	4030017460	S.CER	C1005 JB 1H 102K-T	T	5.4/13.1
C49	4030017650	S.CER	C1005 CH 1H 270J-T	T	3.3/11.3
J1	6910003831	CON	IMSA-9230B-1-04Z003-PT1		
J2	6910003831	CON	IMSA-9230B-1-04Z003-PT1		

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

SECTION 6 MECHANICAL PARTS

[CHASSIS PARTS]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6510004881	MR-DSE-01-1 <GA>	1
W1	8900020381	OPC-2214A	1
W2	8900020390	OPC-2215	1
MP1	8510020730	3514 CASE	1
MP3	8930049040	INSULATION SHEET FQ	1
MP4	8930058780	2577 SHEET	1
MP5	8930083960	3338 R-PACKING	1
MP6	8930086910	3514 F-PACKING	1
MP7	8930083990	3338 R-BUSH PLATE	1
MP8	8930084000	3338 A-R-BUSH PLATE Y1260	1
MP9	8510020500	3338 A-MODULE PLATE	1
MP10	8930084010	3338 IC CLIP	1
MP11	8010022280	3338 CHASSIS <STM>	1
MP12	8930034300	1542 ANT SEAL <JST>	1
MP13	8810010610	PHB0 M3 X 8 SUS S (BT)	2
MP14	8810010021	PH BT M2.6X 8 NI-ZC3	2
MP15	8810008661	PHBT M3 X 8 NI-ZC3	7
MP16	8810010610	PHB0 M3 X 8 SUS S (BT)	6
MP17	8810010620	PHB0 M3 X12 SUS S	6
MP18	8510020340	3338 MODULE COVER	1

[MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510025142	10FLT-SM2-TB (LF) (SN) (M)	1
J2*	6510022472	40FLT-SM2-TB (LF) (SN) (M)	1
J3*	6510018971	B4B-PH-SM4-TB (LF) (SN)	1
F1*	5210001160	ERBRE3R00V	1
W1*	7030012290	RDS2T0R0	1
W2**	8900014871	OPC-1332A-1 (P0.5N40L100) TJM	1
W3**	8900020400	OPC-2216	1

[FRONT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8210028900	3514 FRONT PANEL ASSY	1
MP16	8810008661	PHBT M3 X 8 NI-ZC3	4
MP21	8930055841	2490 EARTH SPRING-1	1
MP22	8810008661	PHBT M3 X 8 NI-ZC3	1

[LOGIC UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510022472	40FLT-SM2-TB (LF) (SN) (M)	1
J4*	6510018971	B4B-PH-SM4-TB (LF) (SN)	1

[CONNECT UNIT]

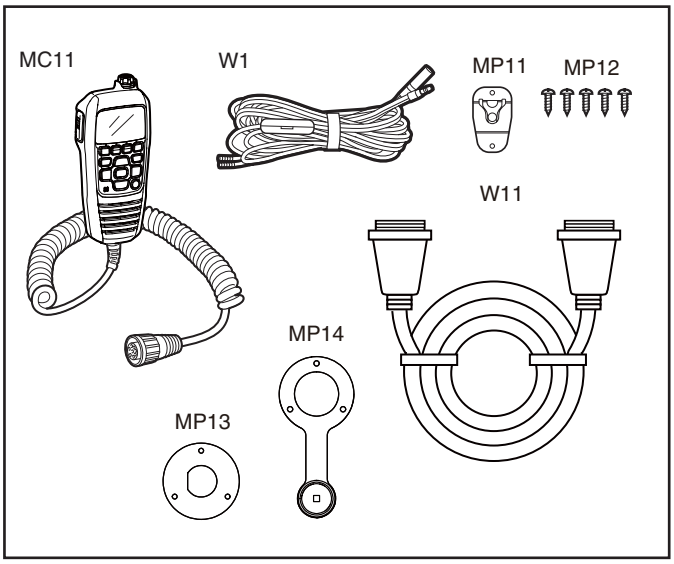
REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6510022440	LTW-8MP-C NUTGASKET <LIA>	1
J2*	6510025142	10FLT-SM2-TB (LF) (SN) (M)	1

[VCO UNIT]

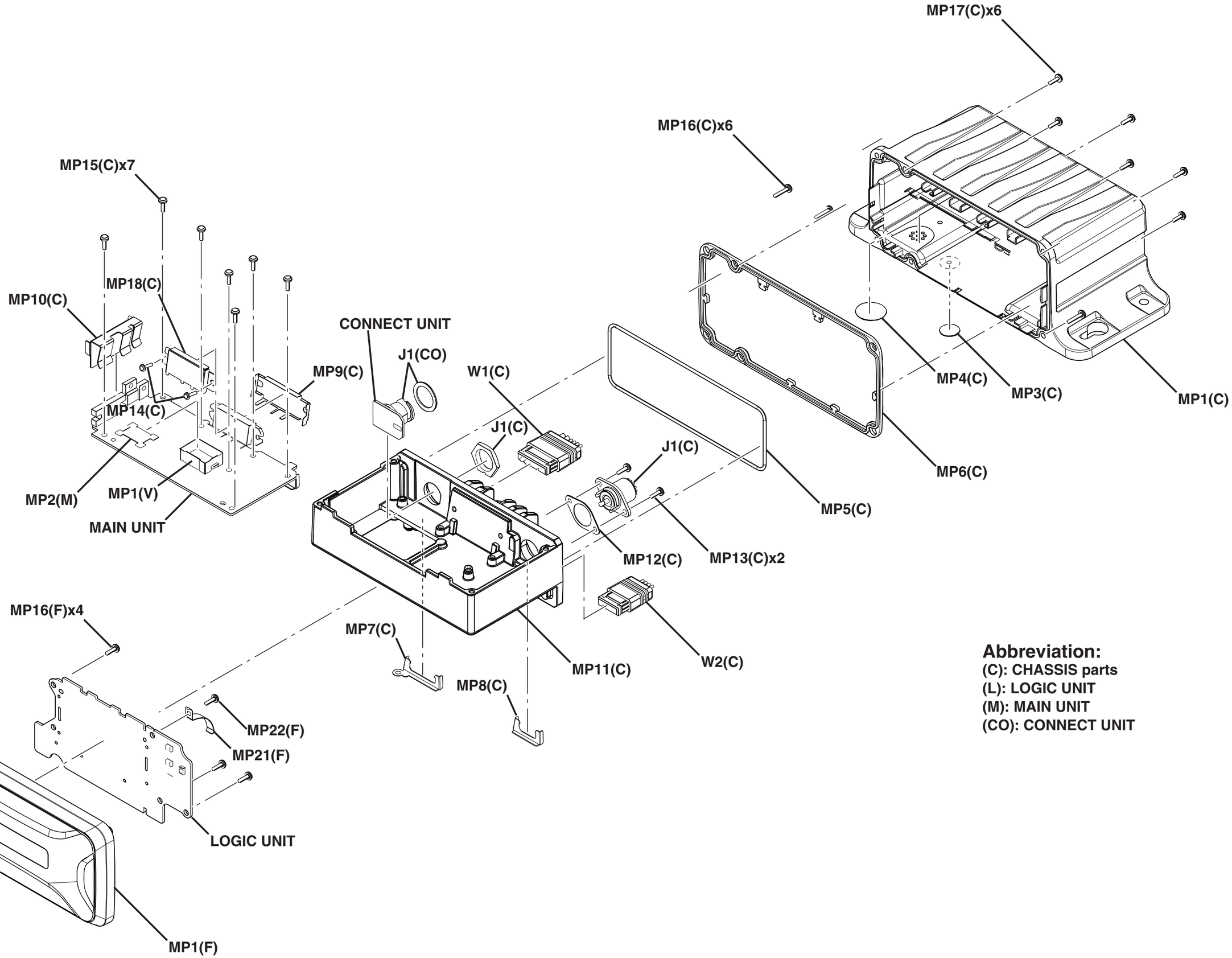
REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6910003831	IMSA-9230B-1-04Z003-PT1	1
J2*	6910003831	IMSA-9230B-1-04Z003-PT1	1
MP1	8510020510	3338 VCO CASE Y1269	1
MP2	8510020520	3338 VCO COVER Y1270	1

[ACCESSORIES]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MC11	(Optional)	HM-195B [USA-01]	1
	(Optional)	HM-195B [UK-01]	1
	(Optional)	HM-195B [EUR-01]	1
	(Optional)	HM-195B [HOL-01]	1
	(Optional)	HM-195B [FRG-01]	1
	(Optional)	HM-195SW [USA-02]	1
	(Optional)	HM-195SW [EUR-02]	1
W1	8900009041	OPC-891A	1
W11	(Optional)	OPC-1540 [USA-01]	1
	(Optional)	OPC-1540 [UK-01]	1
	(Optional)	OPC-1540 [EUR-01]	1
	(Optional)	OPC-1540 [HOL-01]	1
	(Optional)	OPC-1540 [FRG-01]	1
	(Optional)	OPC-1540 [USA-02]	1
	(Optional)	OPC-1540 [EUR-02]	1
MP11	8950005110	2289 MIC HANGER Y468 [USA-01]	1
	8950005110	2289 MIC HANGER Y468 [UK-01]	1
	8950005110	2289 MIC HANGER Y468 [EUR-01]	1
	8950005110	2289 MIC HANGER Y468 [HOL-01]	1
	8950005110	2289 MIC HANGER Y468 [FRG-01]	1
	8950005110	2289 MIC HANGER Y468 [USA-02]	1
	8950005110	2289 MIC HANGER Y468 [EUR-02]	1
MP12	8810004700	PHA M3 X16 SUS [USA-01]	5
	8810004700	PHA M3 X16 SUS [UK-01]	5
	8810004700	PHA M3 X16 SUS [EUR-01]	5
	8810004700	PHA M3 X16 SUS [HOL-01]	5
	8810004700	PHA M3 X16 SUS [FRG-01]	5
	8810004700	PHA M3 X16 SUS [USA-02]	5
	8810004700	PHA M3 X16 SUS [EUR-02]	5
MP13	8930084860	3384 C-PLATE Y1265 [USA-01]	1
	8930084860	3384 C-PLATE Y1265 [UK-01]	1
	8930084860	3384 C-PLATE Y1265 [EUR-01]	1
	8930084860	3384 C-PLATE Y1265 [HOL-01]	1
	8930084860	3384 C-PLATE Y1265 [FRG-01]	1
	8930084860	3384 C-PLATE Y1265 [USA-02]	1
	8930084860	3384 C-PLATE Y1265 [EUR-02]	1
MP14	8930084840	3384 CONNECTOR CAP TOT [USA-01]	1
	8930084840	3384 CONNECTOR CAP TOT [UK-01]	1
	8930084840	3384 CONNECTOR CAP TOT [EUR-01]	1
	8930084840	3384 CONNECTOR CAP TOT [HOL-01]	1
	8930084840	3384 CONNECTOR CAP TOT [FRG-01]	1
	8930084840	3384 CONNECTOR CAP TOT [USA-02]	1
	8930084840	3384 CONNECTOR CAP TOT [EUR-02]	1



*: Refer to "**BOARD LAYOUTS**" for the location.
: Refer to "GENERAL WIRING**" for the connection
Screw abbreviations A, B0, BT: Self-tapping PH: Pan head ZK: Black NI-ZU: Nickel-Zinc SUS: Stainless

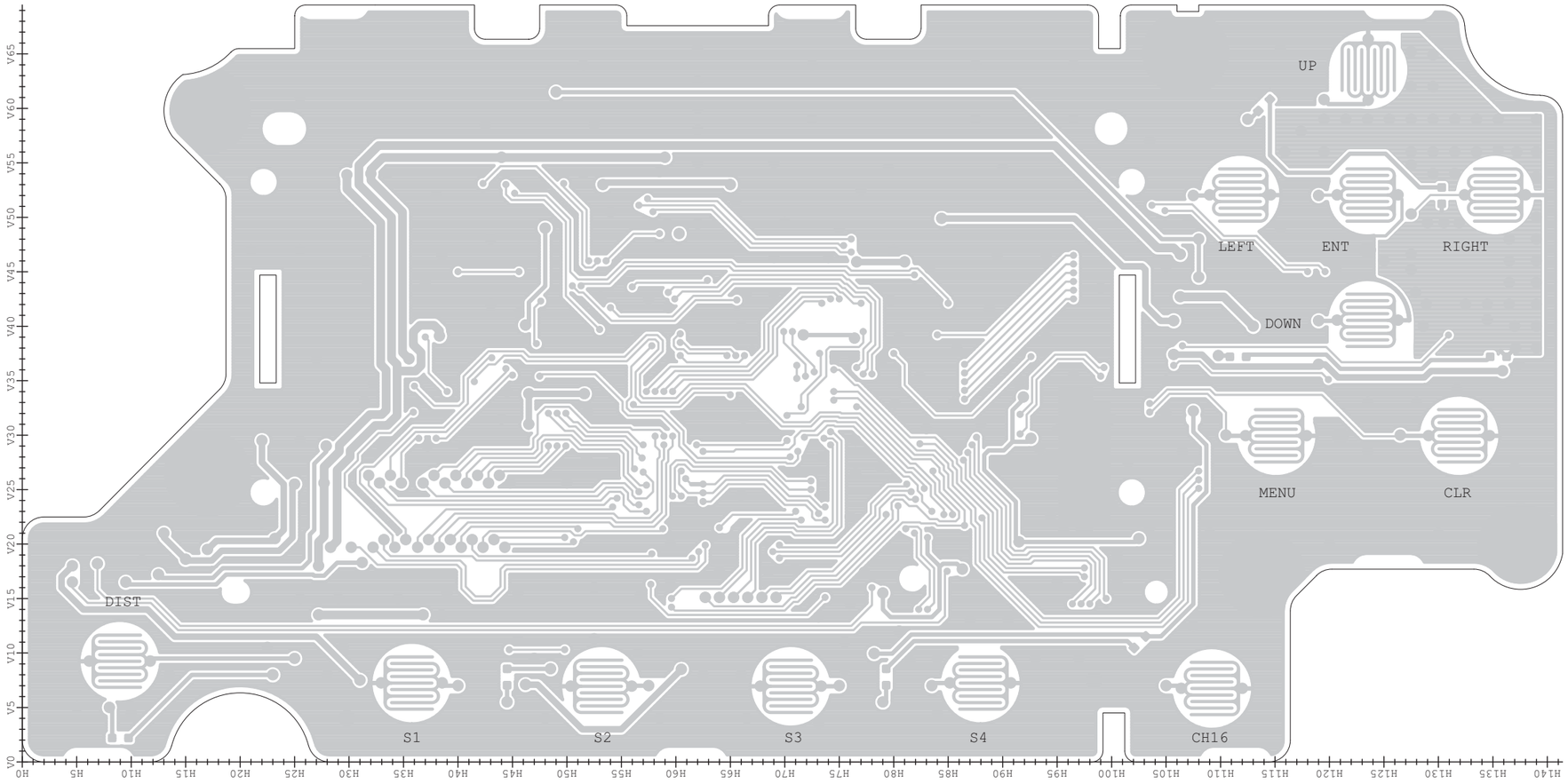


Abbreviation:
(C): CHASSIS parts
(L): LOGIC UNIT
(M): MAIN UNIT
(CO): CONNECT UNIT

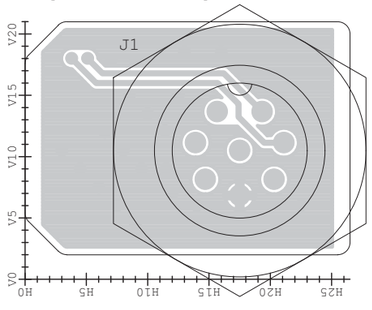
SECTION 7 BOARD LAYOUTS

The combination of top side and bottom side of this page shows the actual configuration of P.C. board.

• LOGIC UNIT (TOP VIEW)

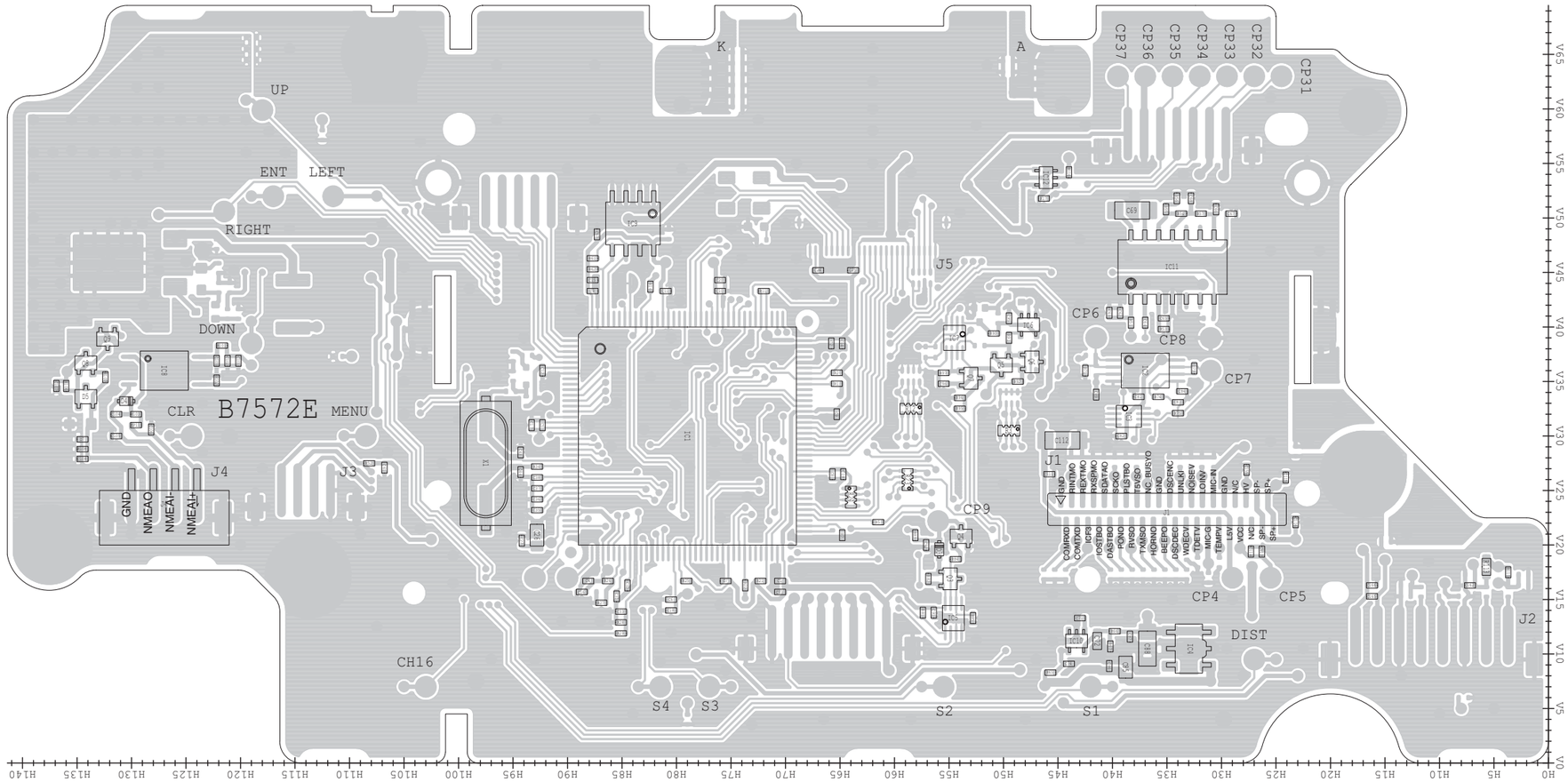


• CONNECT UNIT (TOP VIEW)

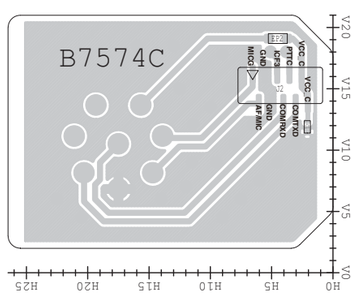


The combination of top side and bottom side of this page shows the actual configuration of P.C. board.

• LOGIC UNIT (BOTTOM VIEW)

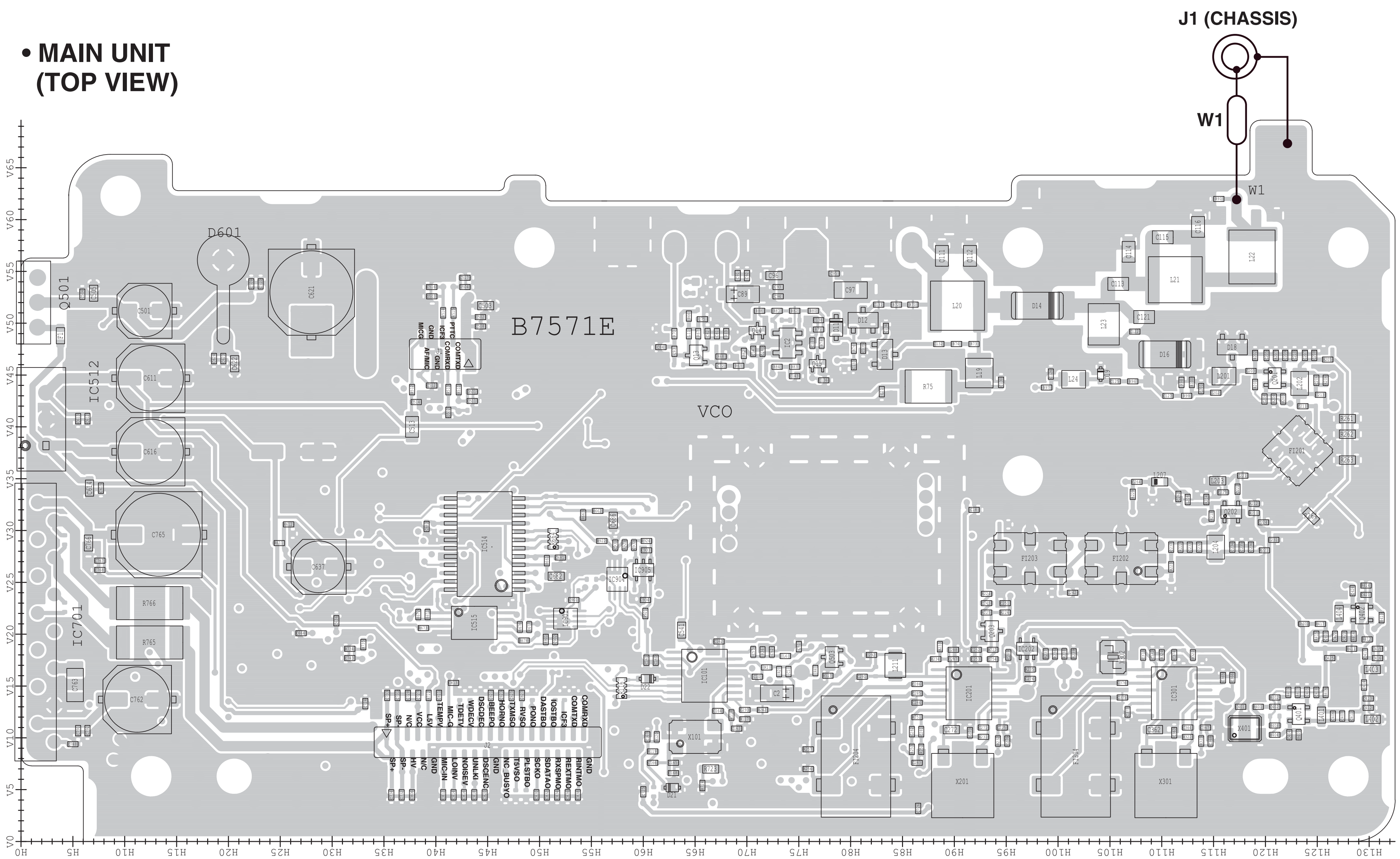


• CONNECT UNIT (BOTTOM VIEW)

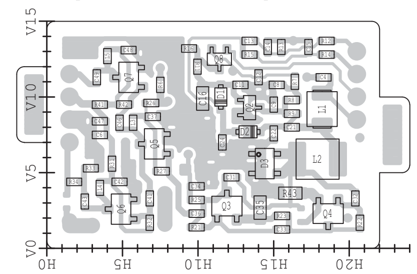


The combination of top side and bottom side of this page shows the actual configuration of P.C. board.

• MAIN UNIT (TOP VIEW)

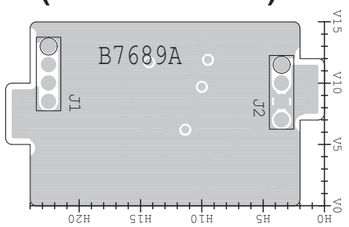


• VCO UNIT (TOP VIEW)

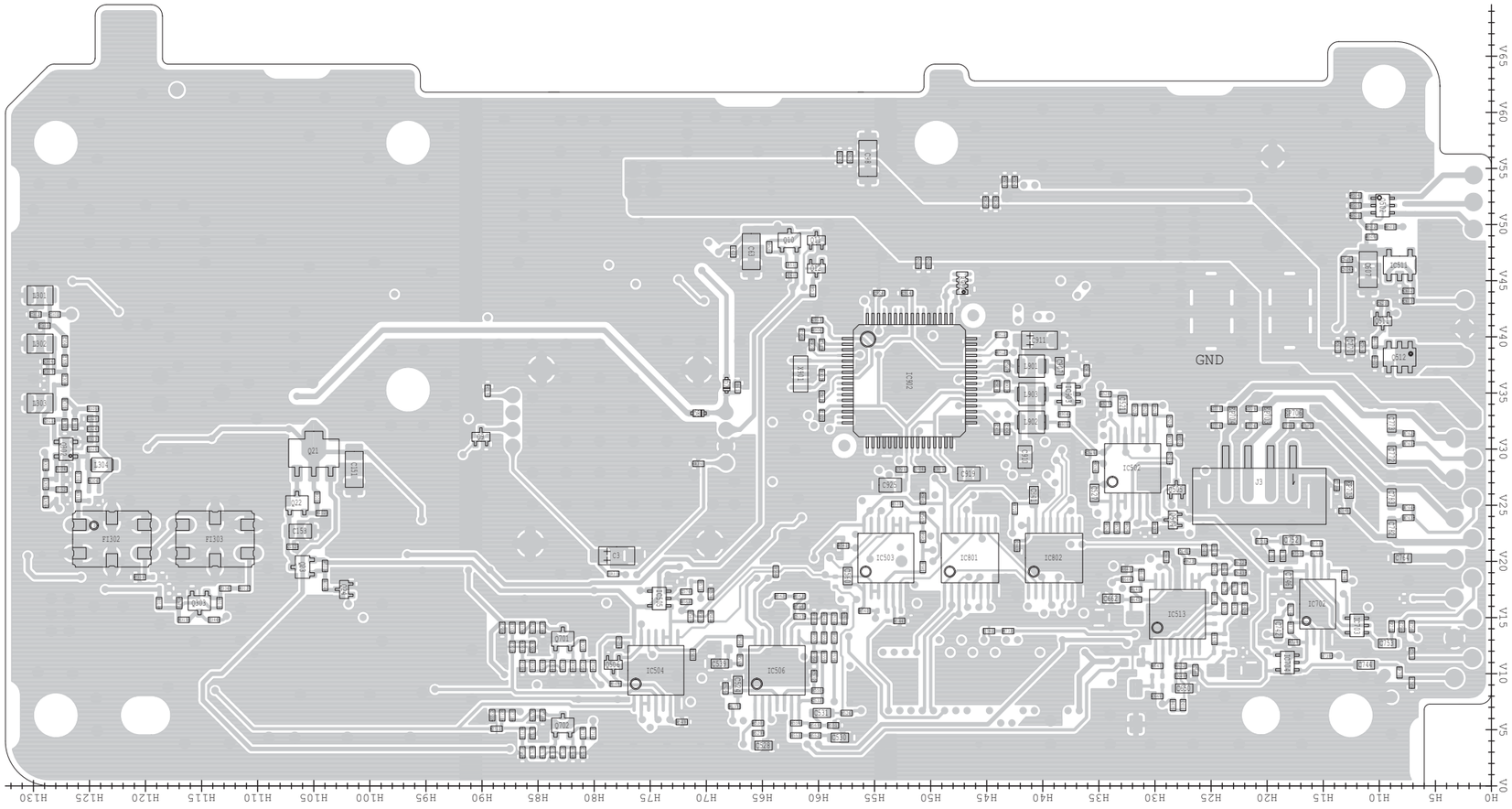


The combination of top side and bottom side of this page shows the actual configuration of P.C. board.

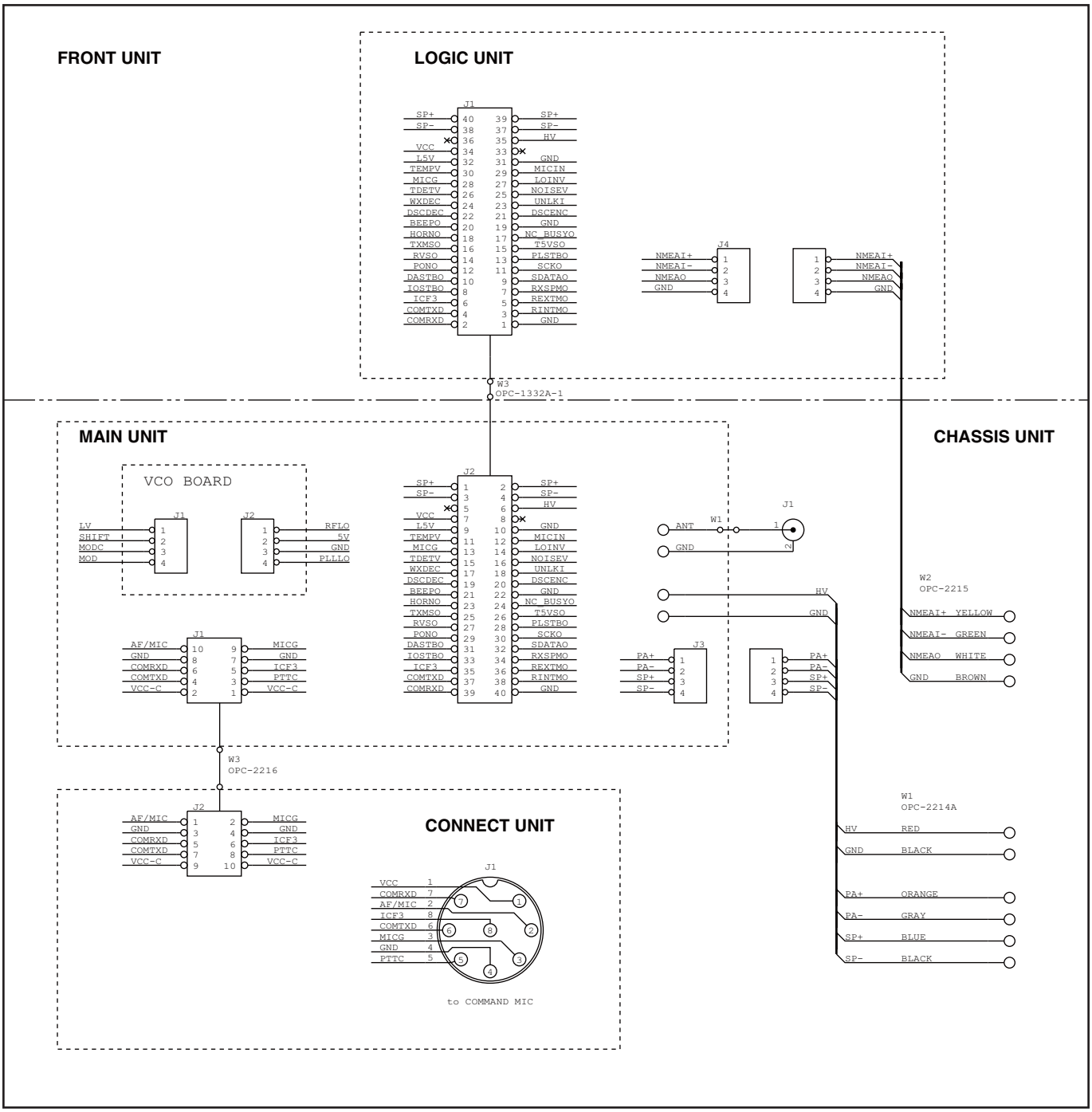
• VCO UNIT (BOTTOM VIEW)



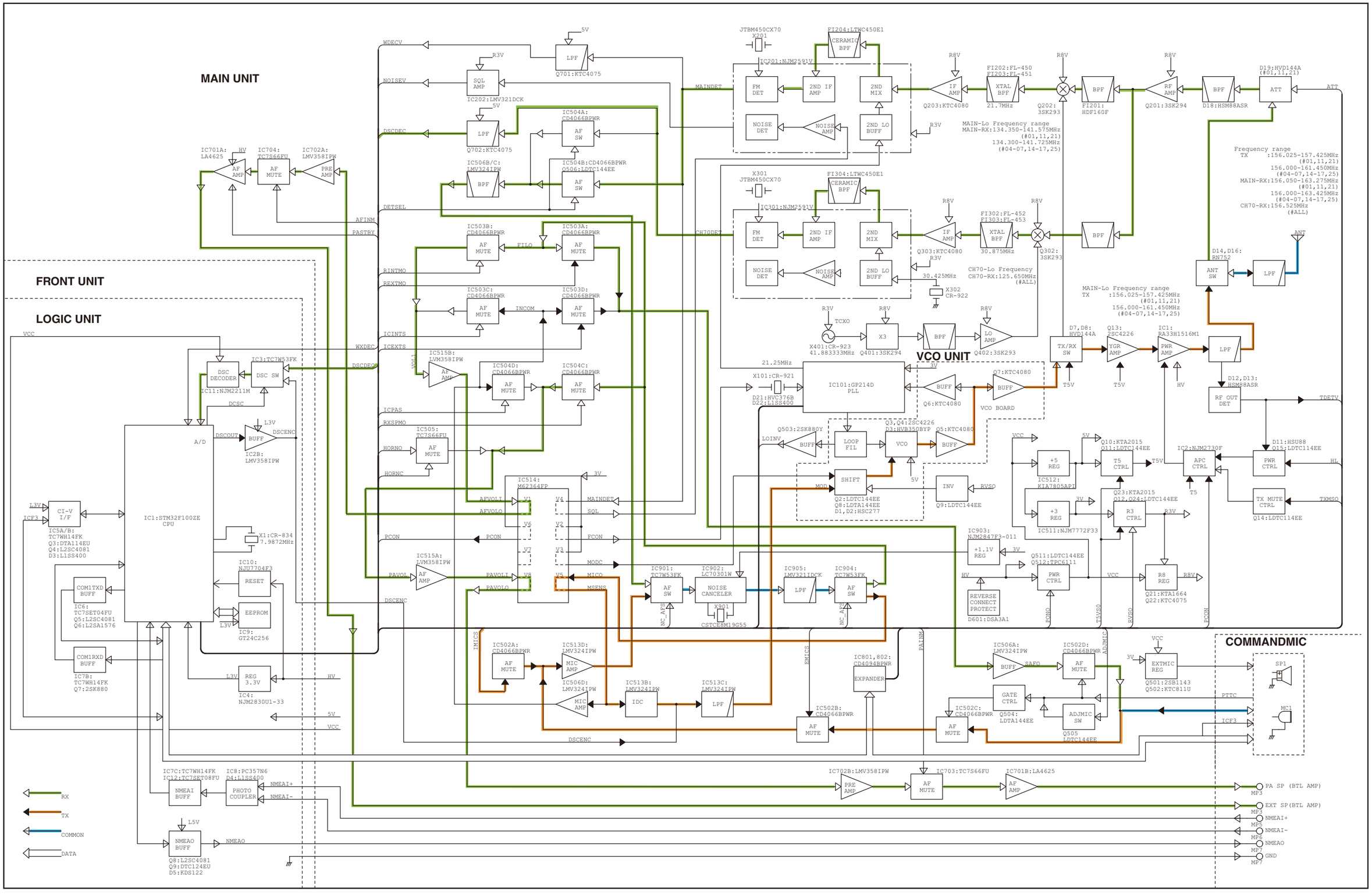
• MAIN UNIT (BOTTOM VIEW)



SECTION 8 GENERAL WIRING

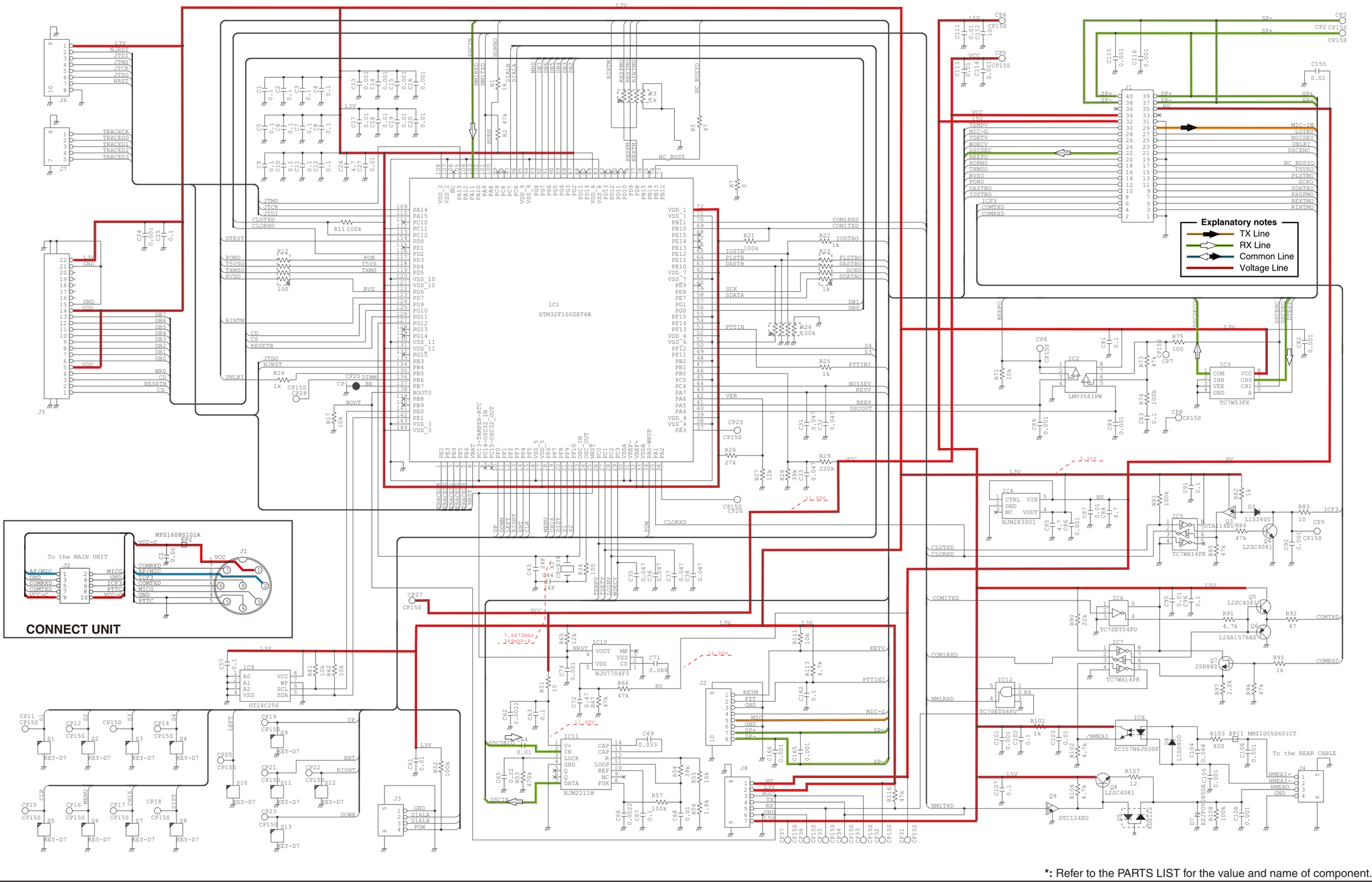


SECTION 9 BLOCK DIAGRAM



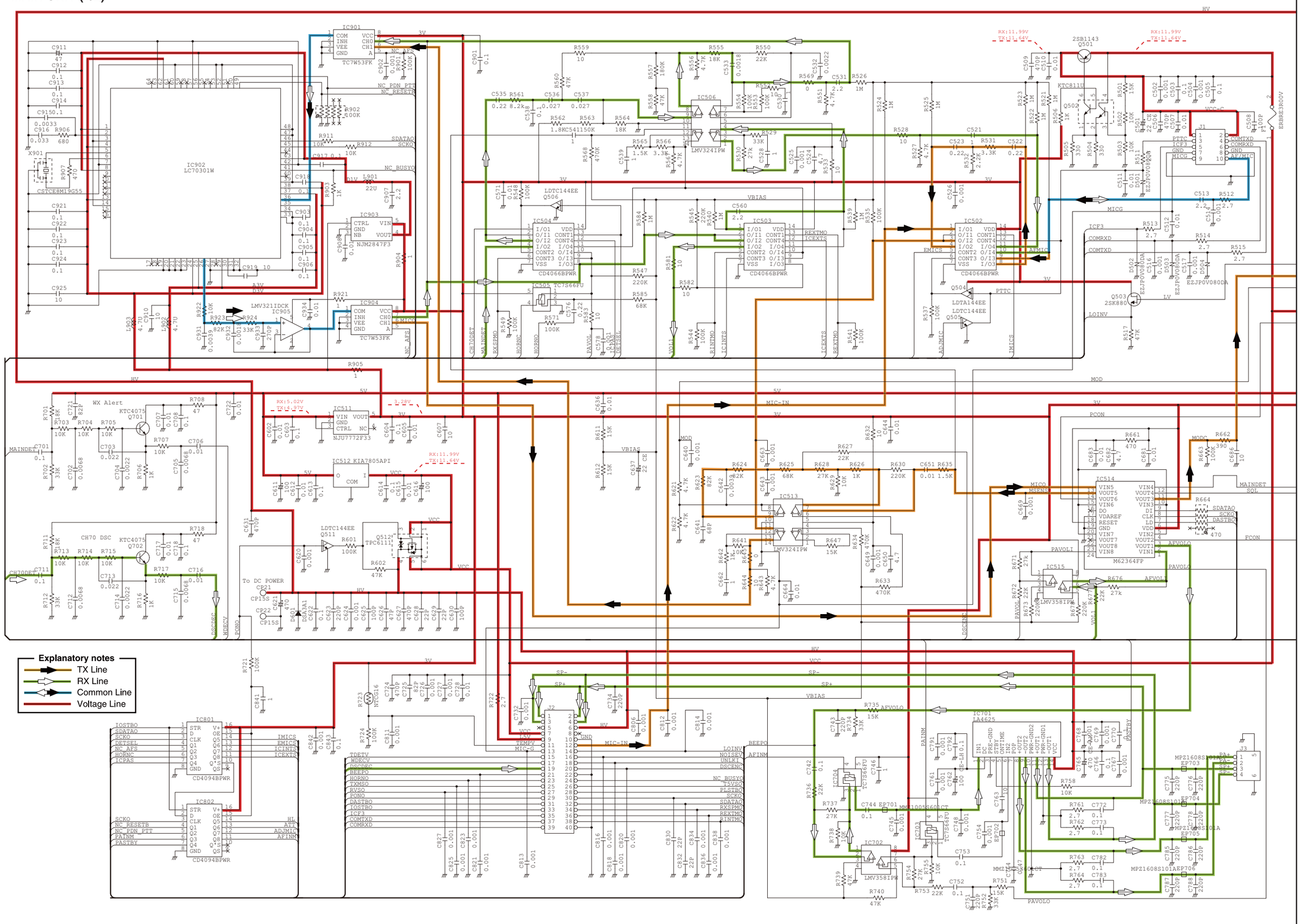
SECTION 10 VOLTAGE DIAGRAM

• LOGIC UNIT



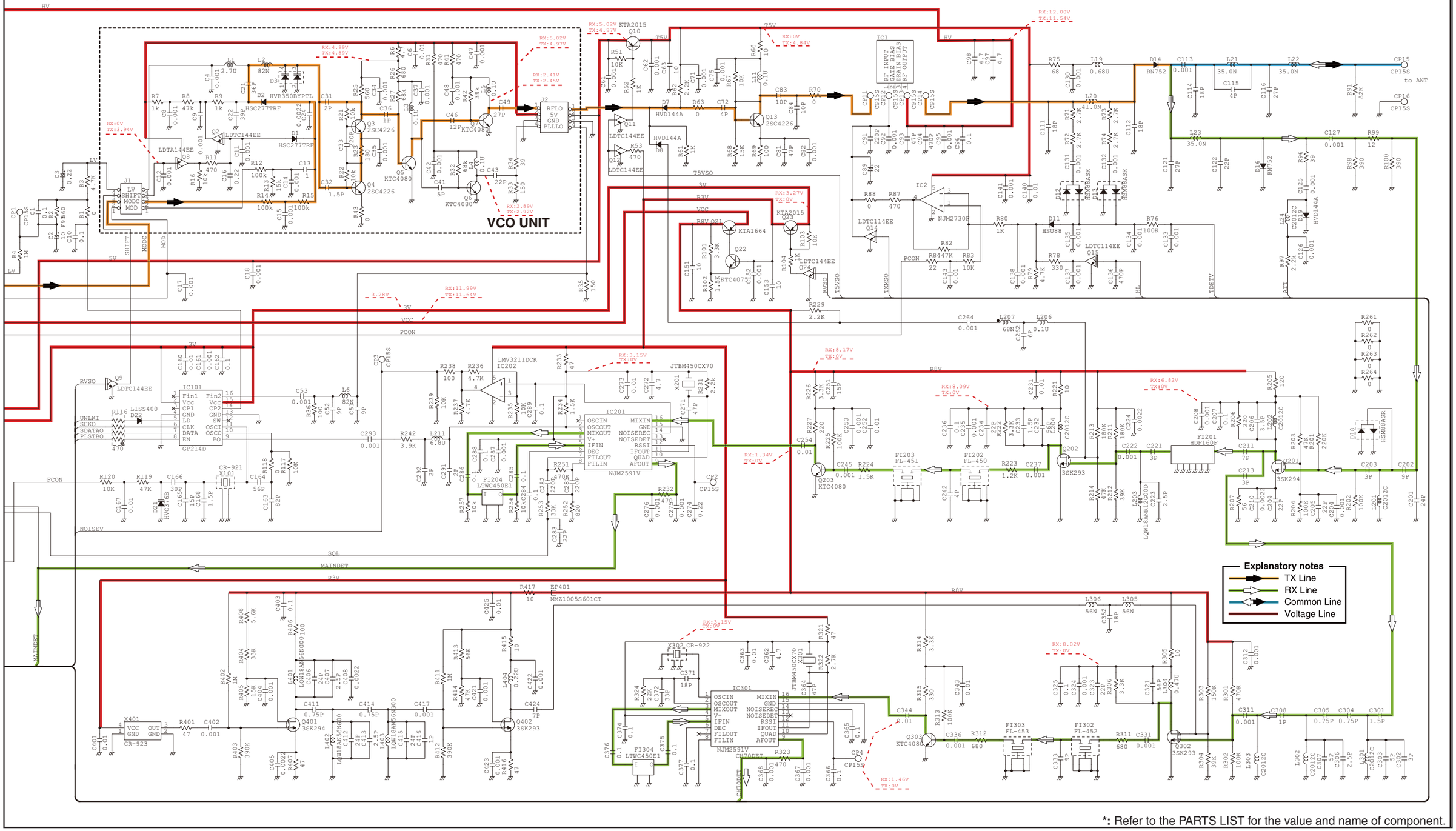
***:** Refer to the PARTS LIST for the value and name of component.

• MAIN UNIT (1/2)



*: Refer to the PARTS LIST for the value and name of component.

• MAIN UNIT (2/2)


VCO UNIT
Explanatory notes
TX Line
RX Line
Common Line
Voltage Line
to ANT
*: Refer to the PARTS LIST for the value and name of component.

Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan
Phone : +81 (06) 6793 5302
Fax : +81 (06) 6793 0013
URL : http://www.icom.co.jp/world/index.html

Icom America Inc.

<Corporate Headquarters>
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone : +1 (425) 454-8155 Fax : +1 (425) 454-1509
URL : http://www.icomamerica.com
E-mail : sales@icomamerica.com
<Customer Service>
Phone : +1 (425) 454-7619

Icom Canada

Glenwood Centre #150-6165
Highway 17 Delta, B.C., V4K 5B8, Canada
Phone : +1 (604) 952-4266 Fax : +1 (604) 952-0090
URL : http://www.icomcanada.com
E-mail : info@icomcanada.com

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road, Clayton VIC 3168 Australia
Phone : +61 (03) 9549-7500 Fax : +61 (03) 9549-7505
URL : http://www.icom.net.au
E-mail : sales@icom.net.au

Icom New Zealand

146A Harris Road, East Tamaki,
Auckland, New Zealand
Phone : +64 (09) 274 4062 Fax : +64 (09) 274 4708
URL : http://www.icom.co.nz
E-mail : inquiries@icom.co.nz

Icom Brazil

Rua Itororó, 444 Padre Eustáquio Belo Horizonte MG,
CEP: 30130-150 Brazil
Phone : +55 (31) 3582 8847 Fax : +55 (31) 3582 8987
E-mail : sales@icombrazil.com

Icom (Europe) GmbH

Communication Equipment
Auf der Krautweide 24
65812 Bad Soden am Taunus, Germany
Phone : +49 (6196) 76685-0 Fax : +49 (6196) 76685-50
URL : http://www.icomeurope.com
E-mail : info@icomeurope.com

Icom Spain S.L

Ctra. Rubi, No. 88 Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain
Phone : +34 (93) 590 26 70 Fax : +34 (93) 589 04 46
URL : http://www.icomspain.com
E-mail : icom@icomspain.com

Icom (UK) Ltd.

Blacksole House, Altira Park, Herne Bay, Kent CT6 6GZ, UK
Phone : +44 (0) 1227 741741 Fax : +44 (0) 1227 741742
URL : http://www.icomuk.co.uk
E-mail : info@icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine
1 Rue Brindejonc des Moulinais BP 5804
31505 Toulouse Cedex, France
Phone : +33 (5) 61 36 03 03 Fax : +33 (5) 61 36 03 00
URL : http://www.icom-france.com
E-mail : icom@icom-france.com

Asia Icom Inc.

6F No.68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C.
Phone : +886 (02) 2559 1899 Fax : +886 (02) 2559 1874
URL : http://www.asia-icom.com
E-mail : sales@asia-icom.com

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland
Phone : +48 (58) 550 7135 Fax : +48 (58) 551 0484
E-mail : icompolska@icompolska.com.pl

Count on us!

Icom Inc.
1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan

S-14915XZ-C1