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## IC-F9011B IC-F9011T IC-F9011S

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**NOTE:** Use these amended pages as one addendum set.  
Do not mix them up with the previous master pages.

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#### [VERSION LIST]

MODEL	VERSION	VERSION NUMBER	KEY PAD	LCD	MAIN UNIT	MAIN-A UNIT
IC-F9011B	USA-01	#01			✓	
IC-F9011S	USA-01	#05	4-key	✓	✓	
IC-F9011T	USA-01	#10	10-key	✓	✓	
IC-F9011B	USA-11	#11*				✓
IC-F9011S	USA-11	#15*	4-key	✓		✓
IC-F9011T	USA-11	#20*	10-key	✓		✓
IC-F9011B	USA-12	#21*				✓
IC-F9011S	USA-12	#25*	4-key	✓		✓
IC-F9011T	USA-12	#30*	10-key	✓		✓

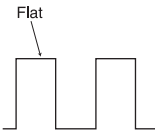
\* Newly added versions.

✓ UNIT installed.

The underlined parts have been updated from the previous version of the addendum.

### 6-3 TRANSMIT ADJUSTMENT

- 1) Select an adjustment item using [↑]/[↓] on the PC's keyboard.
- 2) Set or modify the adjustment value as specified using [↑]/[↓] on the PC's keyboard, and then push [ENTER].

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	VALUE
<b>OUTPUT POWER</b> [Power (Hi)]	1 • Channel: 1-9 • Transmitting	Connect the RF power meter to the antenna connector.	6 W
(L2 power)	2 • Channel: 1-10 • Transmitting		2 W
(L1 power)	3 • Channel: 1-11 • Transmitting		1 W
<b>MODULATION BALANCE</b> [BAL]	1 • Channel: 1-12 • [MOD N]: "90" • No audio signals applied to the JIG cable. • Set the Modulation Analyzer as; HPF: OFF LPF: 20 kHz De-emphasis: OFF Detector: (P-P)/2 • Push [P0] key while transmitting.	1) Connect the oscilloscope to the Modulation Analyzer's detector terminals. Then, connect the Modulation Analyzer to the transceiver through the attenuator. 2) Observe the waveform on the oscilloscope.	Square waveform 
<b>FM DEVIATION</b> -Preparation-	1 • Connect the audio generator to the JIG cable and set as; Frequency: 1.0 kHz Level: 150 mV rms • Set the modulation analyzer to the same condition as "MODULATION BALANCE."	Connect the Modulation Analyzer to the antenna connector through an attenuator.	—
(NARROW) [MOD N C]	• Channel: 1-13 • Transmitting		±2.10 ±0.05 kHz
[MOD N L]	2 • Channel: 1-14 • Transmitting		±4.10 ±0.05 kHz
[MOD N H]	3 • Channel: 1-15 • Transmitting		
(WIDE) [MOD W C]	4 • Channel: 1-16 • Transmitting		
[MOD W L]	5 • Channel: 1-17 • Transmitting		—
[MOD W H]	6 • Channel: 1-18 • Transmitting		
<b>DIGITAL DEVIATION</b>	1 • Connect the audio generator to the JIG cable and set as; Frequency: 1.0 kHz Level: 40 mV rms • Set the modulation analyzer to the same condition as "MODULATION BALANCE." • [Dig Mode]: "7"	—	—
[MOD D C]	2 • Channel: 1-19 • Transmitting	Connect the Modulation Analyzer to the antenna connector through an attenuator.	±2.85 ±0.02 kHz
[MOD D L]	3 • Channel: 1-20 • Transmitting		
[MOD D H]	4 • Channel: 1-21 • Transmitting		
<b>CTCSS/DTCS DEVIATION</b> [CTCSS/DTCS]	1 • Channel: 1-22 • No audio signals applied to the JIG cable. • Set the modulation analyzer to the same condition as "MODULATION BALANCE." • Transmitting	Connect the Modulation Analyzer to the antenna connector through an attenuator.	±0.65 ±0.02 kHz* ±0.30 ±0.02 kHz**
<b>TONE</b> [S.Tone]	1 • Channel: 1-23 • Push [P3] key while transmitting.	Connect the Modulation Analyzer to the antenna connector through an attenuator.	±1.50 kHz

\*: For [#01], [#05], [#10]. \*\*: For [#11], [#15], [#20], [#21], [#25], [#30].

The underlined parts have been updated from the previous version of the addendum.

### 6-4 RECEIVE ADJUSTMENT

- 1) Select an adjustment item using [↑]/[↓] on the PC's keyboard.
- 2) Set or modify the adjustment value as specified using [↑]/[↓] on the PC's keyboard, and then push [ENTER].

ADJUSTMENT	TRANSCIVER'S CONDITION	OPERATION	VALUE
<b>RX SENSITIVITY</b> <b>[BPF C (T1)]</b> <b>[BPF C (T2)]</b>	<b>NOTE:</b> When "RX SENSITIVITY" is re-adjusted, "S-METER" must be re-adjusted too.		
	1 <ul style="list-style-type: none"> <li>• Channel: 1-24</li> <li>• Connect the SSG to the antenna connector and set it as;                             <ul style="list-style-type: none"> <li>Frequency: 136.100 MHz</li> <li>Level: +20 dBμ<sup>†</sup> (-87 dBm)</li> <li>Modulation: 1 kHz</li> <li>Deviation: ±1.5 kHz</li> </ul> </li> <li>• Receiving</li> </ul>	Connect the SINAD meter and an 8 Ω speaker, in parallel to the SP line of the JIG cable.	Minimum distortion level
<b>CONVENIENT:</b> The "RECEIVE SENSITIVITY" can be adjusted automatically. 1: Put the cursor on "[BPF C ALL]" and push [ENTER] key. 2: The connected PC tunes BPF's to peak levels automatically.			
<b>S-METER</b> <b>[RSSI]</b> <b>(S3 level)</b>	<b>NOTE:</b> "RECEIVE SENSITIVITY" MUST be adjusted before "S-METER." When "RECEIVE SENSITIVITY" is readjusted, "S-METER" MUST be re-adjusted too.		
	1 <ul style="list-style-type: none"> <li>• Channel: 1-26</li> <li>• Connect the SSG to the antenna connector and set it as;                             <ul style="list-style-type: none"> <li>Frequency: 155.000 MHz</li> <li>Level: +23 dBμ<sup>†</sup> (-84 dBm)</li> <li>Modulation: 1 kHz</li> <li>Deviation: ±3.0 kHz*  <span style="padding-left: 20px;">±1.5 kHz**</span></li> </ul> </li> <li>• Receiving</li> </ul>	Select the item <b>[RSSI S3 Level]</b> , then push the <b>[ENTER]</b> key to store the adjust value.	(Automatic adjustment)
<b>(S1 level)</b>	2 <ul style="list-style-type: none"> <li>• Set the SSG as;                             <ul style="list-style-type: none"> <li>Level: -7 dBμ<sup>†</sup> (-114 dBm)</li> </ul> </li> <li>• Receiving</li> </ul>	Select the item <b>[RSSI S1 Level]</b> , then push the <b>[ENTER]</b> key, to store the adjust value.	(Automatic adjustment)
<b>SQUELCH</b> <b>[SQL]</b>	1 <ul style="list-style-type: none"> <li>• Channel: 1-27</li> <li>• [SQL Level]: "2"</li> <li>• Connect the SSG to the antenna connector and set it as;                             <ul style="list-style-type: none"> <li>Frequency: 155.000 MHz</li> <li>Level: -14 dBμ<sup>†</sup> (-121 dBm)</li> <li>Modulation: 1 kHz</li> <li>Deviation: ±1.5 kHz</li> </ul> </li> <li>• Receiving</li> </ul>	1) Once close the squelch by increasing <b>[SQL]</b> value, then decrease the value to open the squelch. 2) Push <b>[ENTER]</b> key to store the value.	(Automatic adjustment)

†: The output level of the standard signal generator (SSG) is indicated as the SSG's open circuit.

\*: For [#01], [#05], [#10]. \*\*: For [#11], [#15], [#20], [#21], [#25], [#30].





[MAIN UNIT] (For [#01], [#05], [#10].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Lists components for the main unit, including parts like ERJ2GGEJ 223 X (22K), ERJ2GGEJ 474 X (470K), etc.

[MAIN UNIT] (For [#01], [#05], [#10].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Lists components for the main unit, including parts like S.RES ERJ2GGEJ 473 X (47K), S.RES ERJ2GGEJ 470 X (47K), etc.

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] (For [#01], [#05], [#10].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Rows include parts like C43, C44, C45, etc., with descriptions such as S.CER C1005 CH 1H 010B-T.

[MAIN UNIT] (For [#01], [#05], [#10].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Rows include parts like C149, C150, C151, etc., with descriptions such as S.CER C1005 CH 1H 100C-T.

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] (For [#01], [#05], [#10].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains detailed parts list for the main unit with various component numbers and descriptions.

[MAIN UNIT] (For [#01], [#05], [#10].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains detailed parts list for the main unit, including components like J401, S404, BT1, EP1, EP2, EP3, EP401, EP402, EP601, EP602, EP603, EP604, EP605, EP606.

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

[FUSE UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200006190	S.COI BLM21PG300SN1D (BLM21P300S)	T	8.5/10.2
C1	4030016930	S.CER C1005 JB 1A 104K-T	T	4.5/9.3
C2	4030017460	S.CER C1005 JB 1H 102K-T	T	5.4/9.3
C3	4030017420	S.CER C1005 CH 1H 470J-T	T	6.3/9.3
C4	4030017420	S.CER C1005 CH 1H 470J-T	T	8.8/8.7
C5	4030017460	S.CER C1005 JB 1H 102K-T	T	8.8/7.8
C6	4030016930	S.CER C1005 JB 1A 104K-T	T	11.1/9.8
J1	6910016860	CON IMSA-9230B-1-02Z150-PT1		
F1	5210001160	S.FUS ERBRE3R00V	T	11.0/8.1

[ANT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200013450	S.COI 0.40-2.4-5TL 43.3N <COMO>	T	3.3/10.2
R1	7030003680	S.RES ERJ3GEYJ 104 V (100K)ATEX [#01]	T	2.6/6.0
	7030003680	S.RES ERJ3GEYJ 104 V (100K)ATEX [#05]		
	7030003680	S.RES ERJ3GEYJ 104 V (100K)ATEX [#10]		
	7540000400	S.ABS EZJZ1V80010 [#11]		
	7540000400	S.ABS EZJZ1V80010 [#15]		
	7540000400	S.ABS EZJZ1V80010 [#20]		
	7540000400	S.ABS EZJZ1V80010 [#21]		
	7540000400	S.ABS EZJZ1V80010 [#25]		
	7540000400	S.ABS EZJZ1V80010 [#30]		
C1	4030007050	S.CER C1608 CH 1H 220J-T	T	2.6/14.1
C3	4030009990	S.CER C1608 CH 1H 200J-T	T	2.6/7.6
C4	4030007030	S.CER C1608 CH 1H 150J-T	T	2.6/12.8

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

[VR UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R1	7210003300	VAR TP76N937N-21.5F-10KA-3062		
J1	6910017680	CON IMSA-9230B-1-04Z140-PT1		

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140010771	S.IC HD64F3687FPV(EMPTY)	B	95.3/24.0
IC2	1130013050	S.IC HD74LV2GT125AUSE-E	B	76.7/23.0
IC3	1110005330	S.IC NJM12904V-TE1-#ZZZB	B	108.6/35.7
IC5	1110005310	S.IC AN6123MS	B	99.6/35.8
IC6	1110006770	S.IC TDA8547TS/N <RYO>	T	113.7/13.2
IC7	1140013200	S.IC CD4053BPWR	B	113.5/35.7
IC9	1130013040	S.IC TC7WBD125AFK(T5LF)	B	80.2/23.1
IC401	1110008030	S.IC AK2346BP-E2	B	47.6/21.3
IC402	1130008230	S.IC BU4053BCFV-E2	B	64.2/32.1
IC403	1110006470	S.IC LMV324IPWR	B	26.9/21.5
IC404	1110007290	S.IC AK2330P-L	B	66.0/21.9
IC405	1130011741	S.IC TC7W66FK(TE85LF)	B	77.0/29.4
IC408	1110006470	S.IC LMV324IPWR	B	79.5/36.6
Q1	1590000980	S.TRA DTB123EK T146	T	116.2/31.1
Eqv.	1590004870	S.FET PDTB123ET215 <RYO>		
Q2	1590004210	S.TRA DRC9114YOL	T	117.2/27.9
Q4	1590004590	S.TRA DMC506010R	T	113.3/20.6
Q5	1520000460	S.TRA 2SB1132 T100 R	B	108.9/21.7
Eqv.	1520000910	S.TRA 2SB1132L-R-AB3-R <SLVJ>		
Q6	1590004210	S.TRA DRC9114YOL	T	118.8/36.1
Q7	1590004210	S.TRA DRC9114YOL	B	109.0/12.0
Q8	1590004500	S.TRA DMC561040R	T	138.0/13.4
Q9	1590004290	S.TRA DRA9114YOL	T	114.9/34.6
Q11	1590004210	S.TRA DRC9114YOL	B	109.0/9.3
Q12	1510000920	S.TRA 2SA1577 T106 Q	B	111.6/9.9
Q13	1590004490	S.TRA DMG564030R	B	104.5/30.5
Q409	1590004210	S.TRA DRC9114YOL	B	21.4/16.1
Q417	1590004210	S.TRA DRC9114YOL	B	73.3/31.9
Q418	1560001360	S.FET 2SK3019 TL	B	72.0/34.7
Eqv.	1560001840	S.FET 2SK3107-T1-AT		
Eqv.	1560001860	S.FET 2SK1824-T1-A		
D1	1750002210	S.DIO DA2S00100L	B	92.2/12.9
D2	1750002020	S.DIO DA2S10100L	B	104.0/15.3
D3	1750001850	S.DIO LDAN222T1G <SLVJ>	T	116.7/7.8
D4	1750001850	S.DIO LDAN222T1G <SLVJ>	B	133.5/11.5
D5	1750002170	S.DIO DB2S31400L	T	110.1/22.9
D6	1750002020	S.DIO DA2S10100L	T	118.7/37.7
D7	1750002170	S.DIO DB2S31400L	B	103.4/27.4
X1	6050011720	S.XTA CR-764 SMD-49TB 19.6608 MHz <KDS>	B	94.4/6.5
X401	6050011730	S.XTA CR-765 SMD-49TA 3.6864 MHz <KDS>	B	54.8/10.0
L401	6200011031	S.COI ELJRF R10JFB	B	50.9/26.3
R1	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#05]	B 74.6/44.7
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#10]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#15]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#20]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#25]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#30]	
R2	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#05]	B 72.7/44.7
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#10]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#15]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#20]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#25]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#30]	
R3	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#10]	B 71.8/44.7
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#20]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#30]	
R4	7030008010	S.RES ERJ2GEJ 123 X (12K)	[#05]	B 96.4/14.4
R5	7030008010	S.RES ERJ2GEJ 123 X (12K)	[#10]	B 97.3/14.4
R6	7030005000	S.RES ERJ2GEJ 471 X (470)	[#15]	T 108.8/36.6
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#20]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#25]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#30]	
R7	7030005160	S.RES ERJ2GEJ 105 X (1M)	[#05]	B 92.8/14.4
R8	7030005530	S.RES ERJ2GEJ 100 X (10)	[#10]	B 94.6/14.4
R9	7030008010	S.RES ERJ2GEJ 123 X (12K)	[#15]	B 91.0/14.4
R10	7030005000	S.RES ERJ2GEJ 471 X (470)	[#20]	T 108.8/24.0
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#25]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#30]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#05]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#10]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#15]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#20]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#25]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#30]	
R11	7030005000	S.RES ERJ2GEJ 471 X (470)	[#05]	T 108.8/13.5
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#10]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#15]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#20]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#25]	
	7030005000	S.RES ERJ2GEJ 471 X (470)	[#30]	
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	[#05]	B 98.2/14.4
R13	7030007250	S.RES ERJ2GEJ 220 X (22)	[#10]	T 124.2/37.5
	7030007250	S.RES ERJ2GEJ 220 X (22)	[#15]	
	7030007250	S.RES ERJ2GEJ 220 X (22)	[#20]	
	7030007250	S.RES ERJ2GEJ 220 X (22)	[#25]	
	7030007250	S.RES ERJ2GEJ 220 X (22)	[#30]	
R14	7030010040	S.RES ERJ2GEJ-JPW	[#01]	B 89.2/14.4
	7030010040	S.RES ERJ2GEJ-JPW	[#05]	
	7030010040	S.RES ERJ2GEJ-JPW	[#11]	
	7030010040	S.RES ERJ2GEJ-JPW	[#15]	
	7030010040	S.RES ERJ2GEJ-JPW	[#21]	
	7030010040	S.RES ERJ2GEJ-JPW	[#25]	
R15	7030005050	S.RES ERJ2GEJ 103 X (10K)	[#05]	B 99.1/14.4

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





[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
DS1	5030003140	LCD M7-0626TIZ <TES> [#05]		
	5030003140	LCD M7-0626TIZ <TES> [#10]		
	5030003830	LCD M9-1578TIM <TES> [#15]		
	5030003830	LCD M9-1578TIM <TES> [#20]		
	5030003830	LCD M9-1578TIM <TES> [#25]		
DS2	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#05]	T	60.7/31.3
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#15]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#25]		
DS3	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]	T	60.7/16.8
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#15]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#25]		
DS4	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]	T	37.6/31.3
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#15]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#25]		
DS5	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]	T	37.6/16.8
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#15]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#25]		
DS6	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]	T	28.6/31.3
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
DS7	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]	T	28.6/16.8
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
DS8	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]	T	20.6/31.3
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
DS9	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]	T	20.6/16.8
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
DS10	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]	T	12.6/31.3
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
DS11	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]	T	12.6/16.8
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]		
	5040002961	S.LED SML-A12MT T86J [#05]	T	107.4/34.5
	5040002961	S.LED SML-A12MT T86J [#10]		
DS13	5040002961	S.LED SML-A12MT T86J [#15]		
	5040002961	S.LED SML-A12MT T86J [#20]		
	5040002961	S.LED SML-A12MT T86J [#25]		
	5040002961	S.LED SML-A12MT T86J [#30]	T	107.4/24.0
	5040002961	S.LED SML-A12MT T86J [#05]		
DS14	5040002961	S.LED SML-A12MT T86J [#10]		
	5040002961	S.LED SML-A12MT T86J [#15]		
	5040002961	S.LED SML-A12MT T86J [#20]		
	5040002961	S.LED SML-A12MT T86J [#25]		
	5040002961	S.LED SML-A12MT T86J [#30]	T	107.4/13.5
DS16	5040003141	S.LED FRMG1211C-TR	T	143.5/11.1
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#05]	T	46.6/32.6
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#15]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#20]		
DS19	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#25]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#30]	T	46.6/15.4
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#05]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#10]		
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [#15]		
MC1	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#05]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#10]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#15]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#20]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#25]		
MC2	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#30]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#01]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#11]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#21]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [#31]		
S23	2230001060	S.SWI EVQ-PUL 02K	B	143.5/5.8
S25	2260002800	S.SWI SW-167 (SKQTLAE010)	B	128.9/47.0
S26	2260002800	S.SWI SW-167 (SKQTLAE010)	B	119.4/47.0
S27	2260002800	S.SWI SW-167 (SKQTLAE010)	B	109.9/47.0

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
EP2	6910018460	S.BEA MMZ1005Y102C-T	B	113.1/22.1
EP401	6910015600	S.BEA ACZ1005Y-241 (240)	B	41.7/18.4
EP403	6910015370	S.BEA ACZ1005Y-102-T	B	37.9/24.2

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

[FUSE UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	9.1/35.5
D2	1790001810	S.VAR AVR-M1005C080MTABB	B	7.5/35.5
D3	1790001810	S.VAR AVR-M1005C080MTABB	B	10.3/33.7
D4	1790001810	S.VAR AVR-M1005C080MTABB	B	8.8/33.7
D5	1790001810	S.VAR AVR-M1005C080MTABB	B	7.9/33.7
D6	1790001810	S.VAR AVR-M1005C080MTABB	B	7.0/33.7
J1	6510027930	S.CON IMSA-9631S-14Y933	T	8.4/31.7
EP1	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/33.5
EP2	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/34.8
EP3	6910012350	S.BEA MMZ1608Y 102BT	B	5.0/36.0
EP4	6910012350	S.BEA MMZ1608Y 102BT	T	1.9/23.5

[SW UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R2	7030005010	S.RES ERJ2GEJ 681 X (680)	T	4.0/9.9
J1	6510027900	S.CON IMSA-9631S-10Y933	B	6.5/3.3
J2	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	2.5/8.9
DS1	5040003170	LED UW3804X		
S2	2250000611	ENC TP70H1059-24.5F-3062A		

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-A UNIT] (For [#11], [#15], [#20], [#21], [#25], [#30].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Lists components such as IC1 through IC608, Q2 through Q604, and D1 through D6.

[MAIN-A UNIT] (For [#11], [#15], [#20], [#21], [#25], [#30].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Lists components such as D7 through D402, F11 through F15, X1 through X601, and L1 through L402.

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-A UNIT] (For [#11], [#15], [#20], [#21], [#25], [#30].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Rows include items like L403, R1, R2, etc., with descriptions like S.COI NLV25T-4R7J-PF, S.RES ERJ2GEJ 103 X (10K), etc.

[MAIN-A UNIT] (For [#11], [#15], [#20], [#21], [#25], [#30].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Rows include items like R113, R115, R117, etc., with descriptions like S.RES ERJ2GEJ 102 X (1K), S.RES ERJ2GEJ 273 X (27K), etc.

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-A UNIT] (For [#11], [#15], [#20], [#21], [#25], [#30].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Rows include parts like S.RES ERJ2GGEJ 104 X (100K) and S.ARR EXB28V470X.

[MAIN-A UNIT] (For [#11], [#15], [#20], [#21], [#25], [#30].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Rows include parts like S.RES ERJ2GGEJ 101 X (100) and S.CER C1005 CH 1H 470J-T.

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-A UNIT] (For [#11], [#15], [#20], [#21], [#25], [#30].)

[MAIN-A UNIT] (For [#11], [#15], [#20], [#21], [#25], [#30].)

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains parts 1-165 for MAIN-A UNIT.

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains parts 166-293 for MAIN-A UNIT.

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

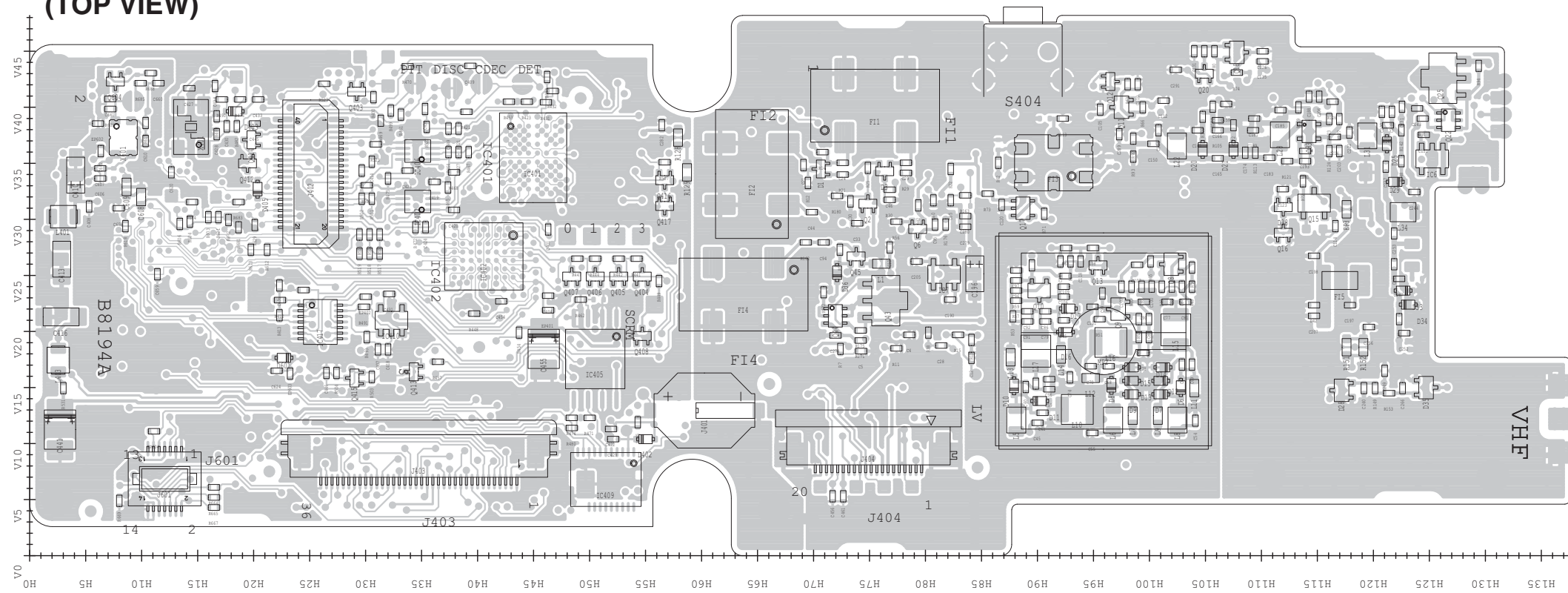
M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side) S.=Surface mount



# BOARD LAYOUTS

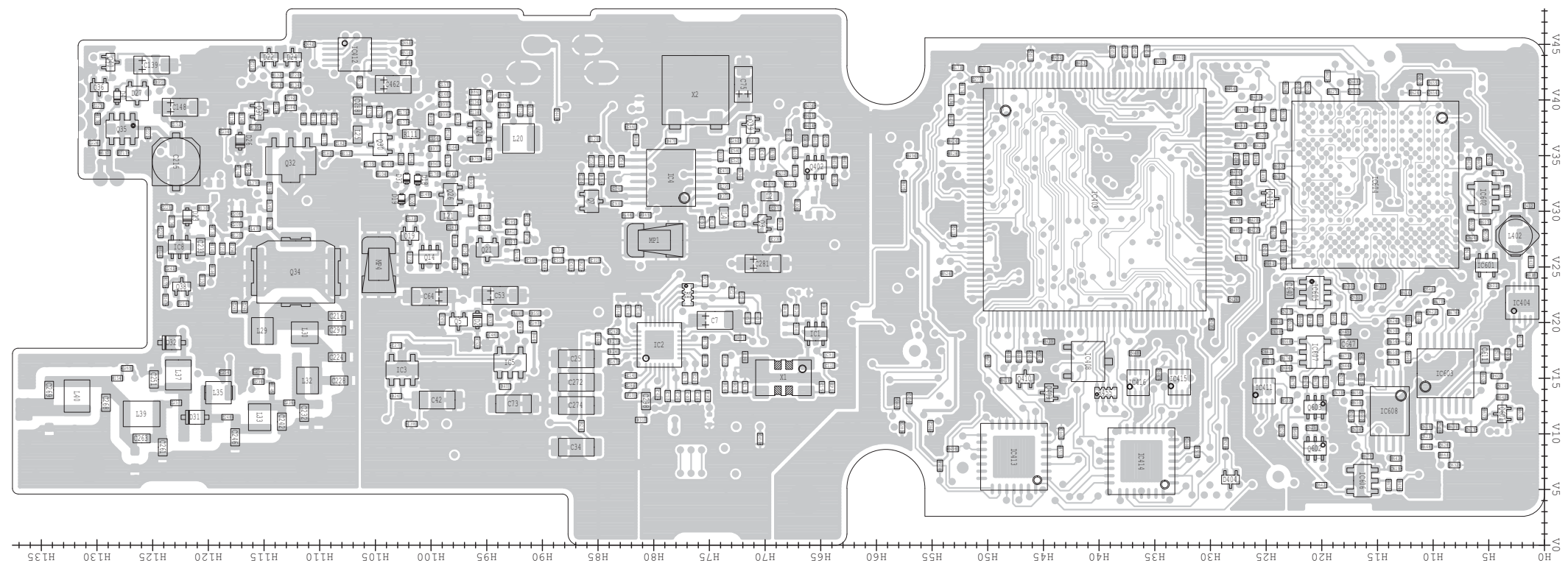
The actual configuration of the PC board can be seen by viewing the top and bottom BOARD LAYOUT pages together.

## • MAIN-A UNIT B-8194A (TOP VIEW)



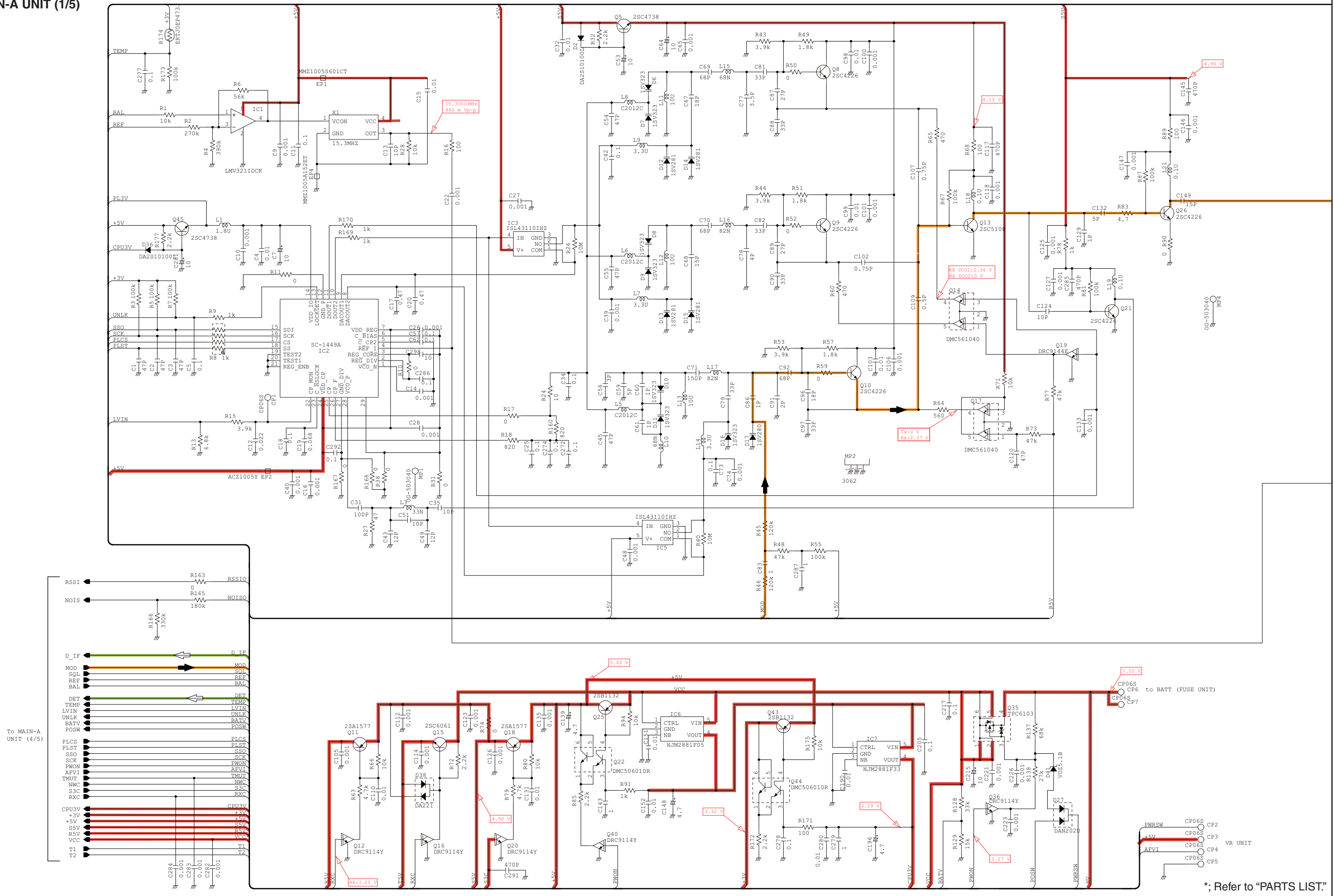
The actual configuration of the PC board can be seen by viewing the top and bottom BOARD LAYOUT pages together.

• MAIN-A UNIT B-8194A  
(BOTTOM VIEW)



# VOLTAGE DIAGRAM

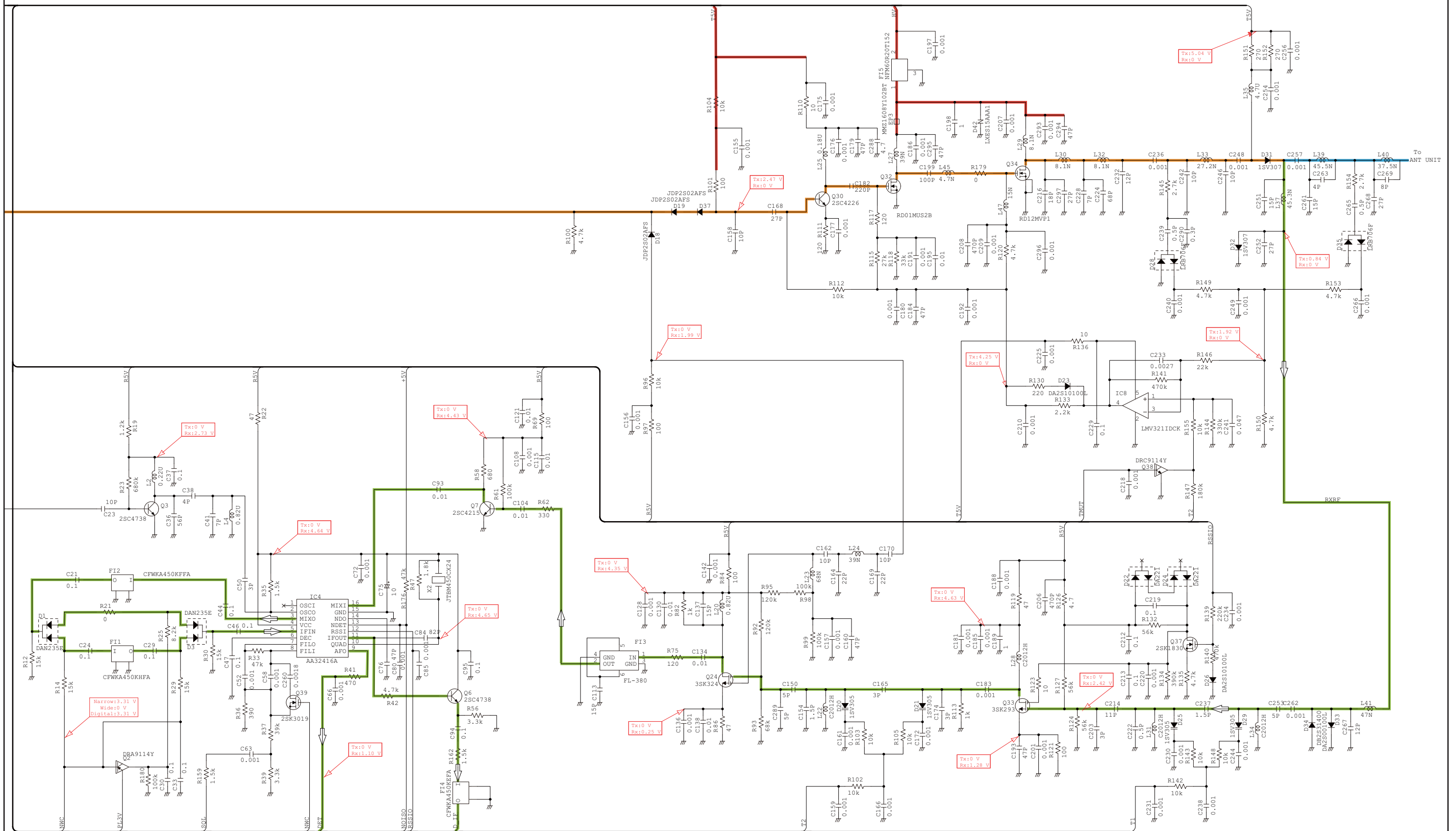
## • MAIN-A UNIT (1/5)



To MAIN-A UNIT (4/5)

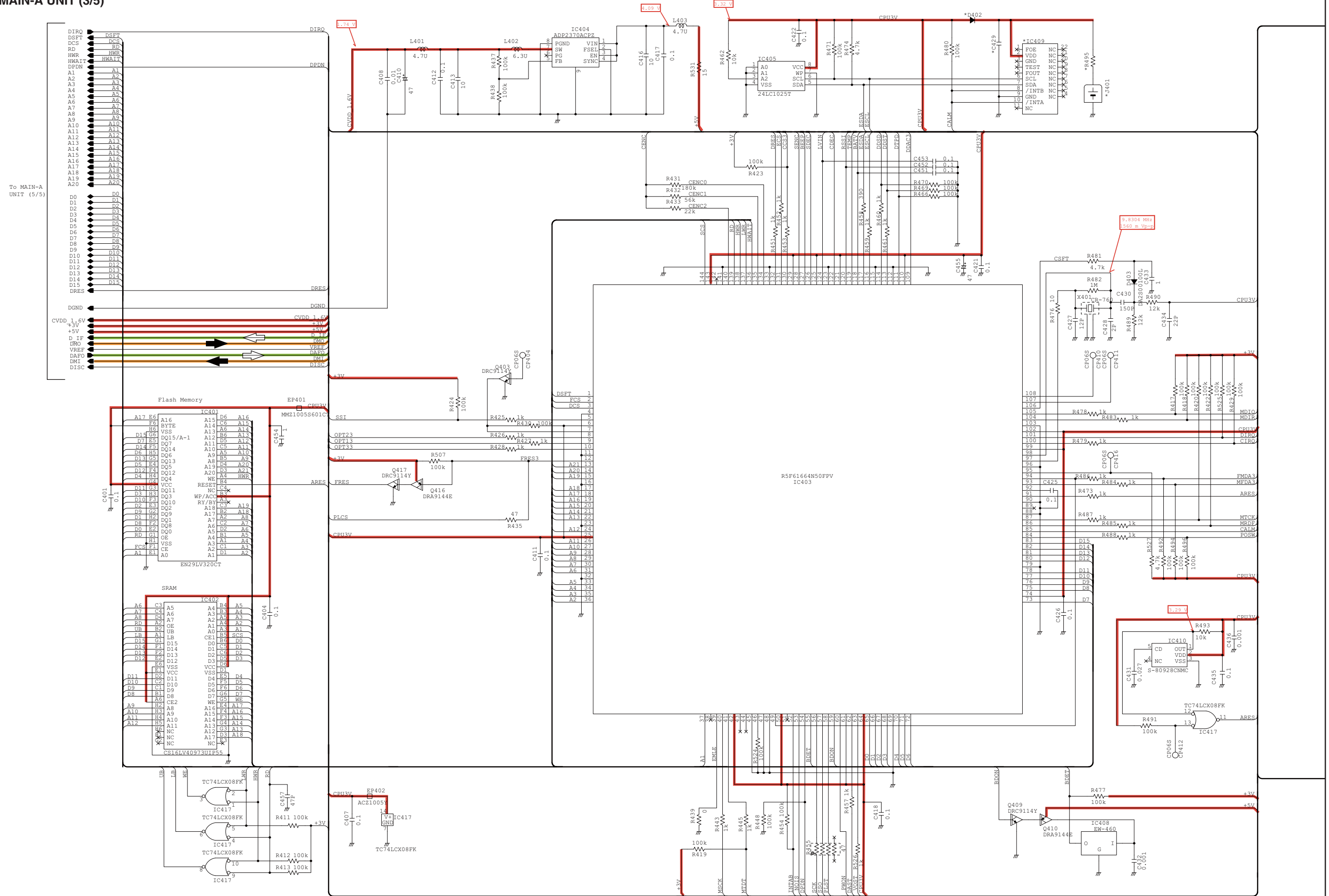
\* Refer to "PARTS LIST."

• MAIN-A UNIT (2/5)



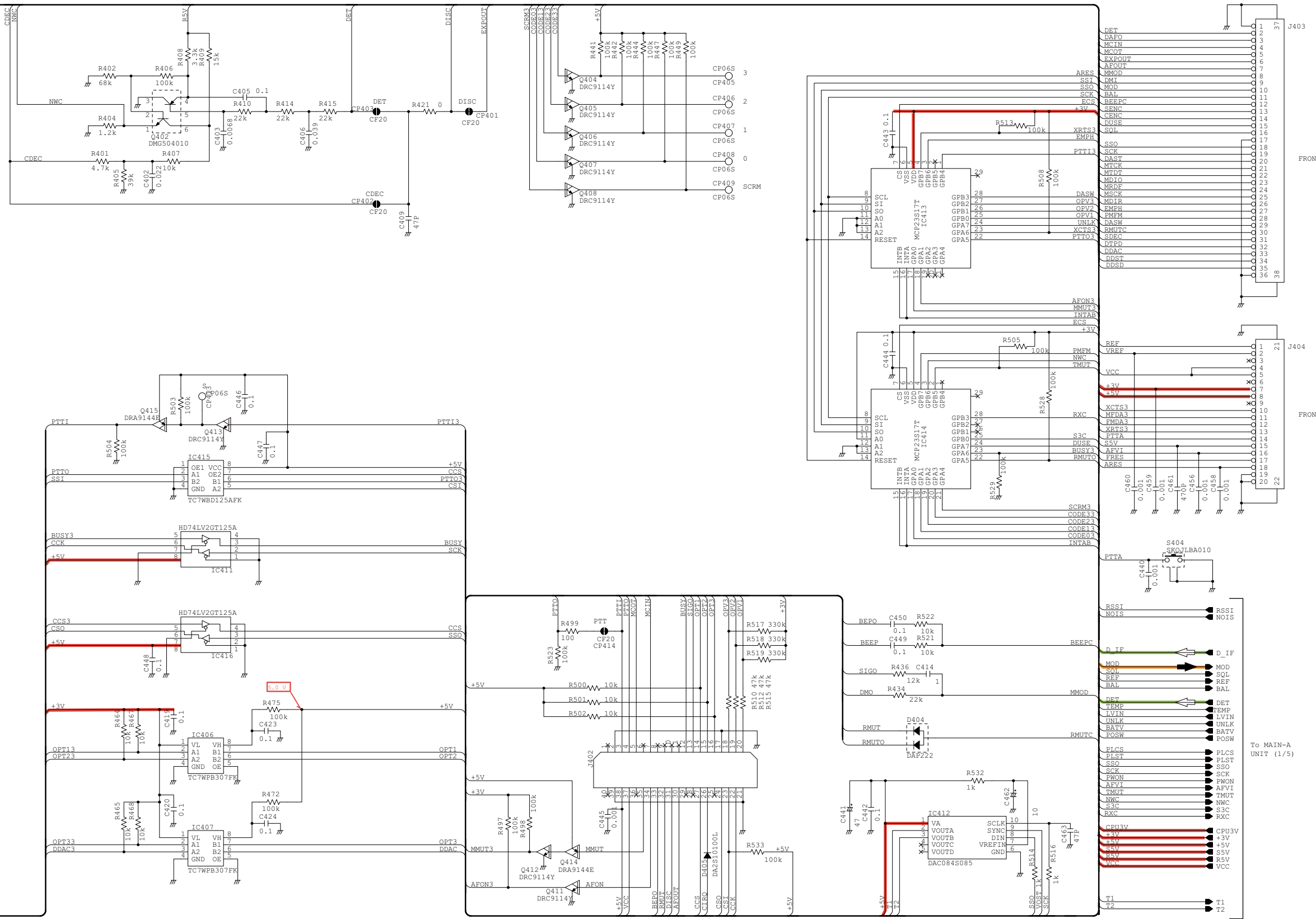
\*: Refer to "PARTS LIST"

• MAIN-A UNIT (3/5)



\*; Refer to "PARTS LIST"

• MAIN-A UNIT (4/5)



\*; Refer to "PARTS LIST."



November 2012



# SERVICE MANUAL ADDENDUM

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## IC-F9011B IC-F9011T IC-F9011S

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# SECTION 8 MECHANICAL PARTS

**[CHASSIS PARTS]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6910015860	IMSA-6277S-02A-G	1
J2	6910019781	3062 ANT CONNECTOR-1 <EIK>	1
W1**	8900017660	OPC-1877 (P0.5N20L100)	1
W2**	8900013541	OPC-1410A (P0.5N14L50)	1
W3**	8900015480	OPC-1447A (P0.5N10L30)	1
W4**	8900017670	OPC-1878 (P0.5N36L110)	1
W5**	8900016000	OPC-1129A	1
W6**	8900016000	OPC-1129A	1
MP1	8210025032	3062 FRONT PANEL ASSEMBLY-2 [F9011B]	1
	8210025023	3062 S-FRONT PANEL ASSEMBLY-3 [F9011S]	1
	8210024983	3062 T-FRONT PANEL ASSEMBLY-3 [F9011T]	1
MP2	8210024770	3062 REAR PANEL	1
MP7	8610013701	KNOB N-374-1	1
MP8	8610013721	KNOB N-373 ASSEMBLY-1	1
MP10	8610013680	KNOB N-372	1
MP17	8010021181	3062 CHASSIS-1	1
MP20	8930075340	3062 MAIN SEAL (TOT)	1
MP22	8930070363	2775 RELEASE PLATE (A)-3	1
MP25	8930059830	2600 SHEET	1
MP26	8930075370	3062 MIC SEAL (TOT)	1
MP28	8930069710	THERMAL SHEET (BC) TC200HS-1.4	1
MP29	8930059800	2600 PET SHEET	1
MP34	8930059362	2600 RELEASE BUTTON-2 (PC)	1
MP35	8930056540	PUSH SPRING (AH)	2
MP38	8930057690	O-RING (AQ) (TOP)	2
MP39	8930063690	O-RING (BA) (TOP)	2
MP41	8930075410	3062 CONNECTOR SEAL (OON)	1
MP43	8830001470	VRNUT (N)	2
MP44	8830003440	3285 ANT NUT	1
MP47	8810010750	PHBT M2 X 6 SUS SSBC	2
MP49	8810010850	PHBT B0 M2X8 SUS SSBC	2
MP50	8820001510	3062 SCREW	2
MP51	8810008971	BT M2 X3.5 NI-ZC3	9
MP52	8810008971	BT M2 X3.5 NI-ZC3	1
MP53	8810010430	TRUSS M3 X 5 SUS SSBC	1
MP54	8810008971	BT M2 X3.5 NI-ZC3	1
MP55	8930063061	2721 T-RUBBER-1 (TOT)	1
MP56	8930059590	O-RING (AV) (TOP)	6
MP57	8810009181	BT M2 X 5 NI-ZC3	1
MP61	8930070010	2893 VOL RUBBER (TOT)	1
MP62	8930075830	3062 EARTH SPRING	1
MP64	8930076710	3062 EARTH PLATE Y1121	1
MP65	8810009181	BT M2 X 5 NI-ZC3 Only [F9011B]	1

**[MAIN UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J401*	2610000500	PB-614SS13-TF [F9011S]	1
	2610000500	PB-614SS13-TF [F9011T]	1
J402*	6510026770	AXK540147YG	1
J403*	6510022221	36FLZ-SM2-R-TB (LF) (SN)	1
J404*	6510027910	IMSA-9631S-20Y933	1
J601*	6510026220	AXK5F14547YG	1
S404	2260003120	SKQJLBA010	1
BT1	3020000340	ML-614S/ZTK [F9011S]	1
	3020000340	ML-614S/ZTK [F9011T]	1
MP1*	6910014760	OG-503040	1
MP2*	8510018910	3062 VCO CASE Y1092	1
MP3	8510018920	3062 VCO COVER Y1093	1

**[FUSE UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6910016860	IMSA-9230B-1-02Z150-PT1	1
F1*	5210001160	ERBRE3R00V	1

**[ANT UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP1*	8930065181	2803 ANT PLATE-1	1

**[VR UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6910017680	IMSA-9230B-1-04Z140-PT1	1

**[FRONT UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510027910	IMSA-9631S-20Y933	1
J2*	6510027940	IMSA-9631S-08Y933 [F9011S]	1
	6510027940	IMSA-9631S-08Y933 [F9011T]	1
J3*	6510027930	IMSA-9631S-14Y933	1
J4*	6510027900	IMSA-9631S-10Y933	1
J5*	6510021901	BM02B-ASRS-TF (LF) (SN)	1
J406*	6510022221	36FLZ-SM2-R-TB (LF) (SN)	1
DS1	5030003140	M7-0626TIZ <TES> [F9011S]	1
	5030003140	M7-0626TIZ <TES> [F9011T]	1
MC1	7700002760	EM6027P-46C33-G-01 <HOR> [F9011S]	1
	7700002760	EM6027P-46C33-G-01 <HOR> [F9011T]	1
MC2	7700002760	EM6027P-46C33-G-01 <HOR> Only [F9011B]	1
S23*	2230001060	EVQ-PUL 02K	1
S25*	2260002800	SW-167 (SKQTLAE010)	1
S26*	2260002800	SW-167 (SKQTLAE010)	1
S27*	2260002800	SW-167 (SKQTLAE010)	1
MP2	8210024800	3062 REFLECTOR [F9011S]	1
	8210024800	3062 REFLECTOR [F9011T]	1
MP3	8950004430	DOUBLE SIDE TAPE (O) [F9011S]	2
	8950004430	DOUBLE SIDE TAPE (O) [F9011T]	2
MP4	8930062540	SPONGE (HO) [F9011S]	2
	8930062540	SPONGE (HO) [F9011T]	2
MP6	8930074230	2893 LCD SHEET [F9011S]	1
	8930074230	2893 LCD SHEET [F9011T]	1
MP7	8930069690	SPONGE (IX) [F9011S]	1
	8930069690	SPONGE (IX) [F9011T]	1
MP9*	8930078390	THERMAL SHEET (BQ) TC350HS-1.4 (8X20)	1

**[JACK UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510027930	IMSA-9631S-14Y933	1
MP1*	8930078730	3062 JACK SPRING	1

**[SW UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510027900	IMSA-9631S-10Y933	1
J2*	6510021901	BM02B-ASRS-TF (LF) (SN)	1
DS1	5040003170	UW3804X	1
S2	2250000611	TP70H1059-24.5F-3062A	1
EP1	(Optional)	FA-S65V	1
EP2	(Optional)	BP-254	1
MP1	(Optional)	MB-115	1
MP2	8210024790	3062 SIDE PANEL	1
MP3	8810010771	D6.9 TRUSS M4X5 SUS SSBC	1

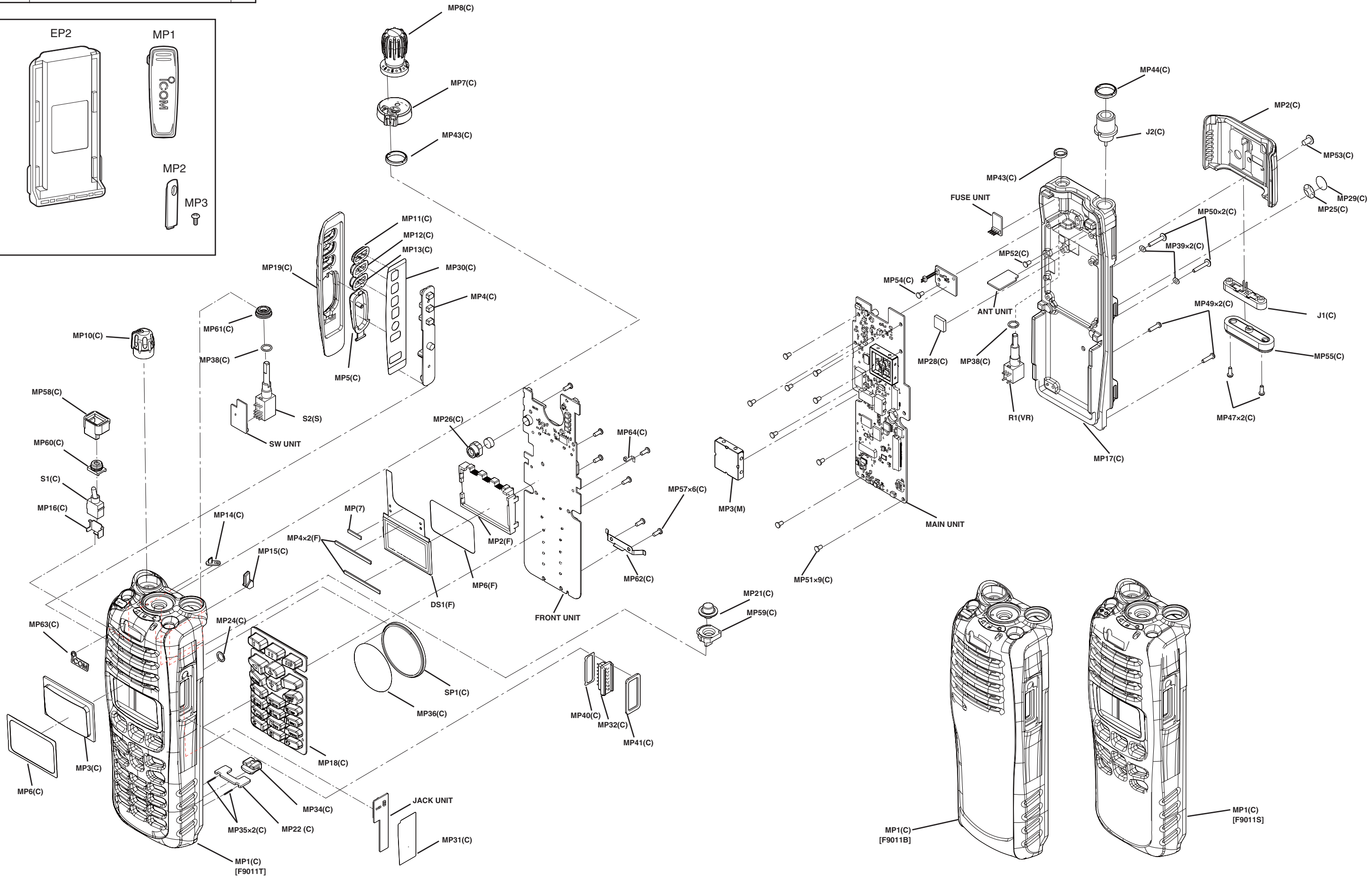
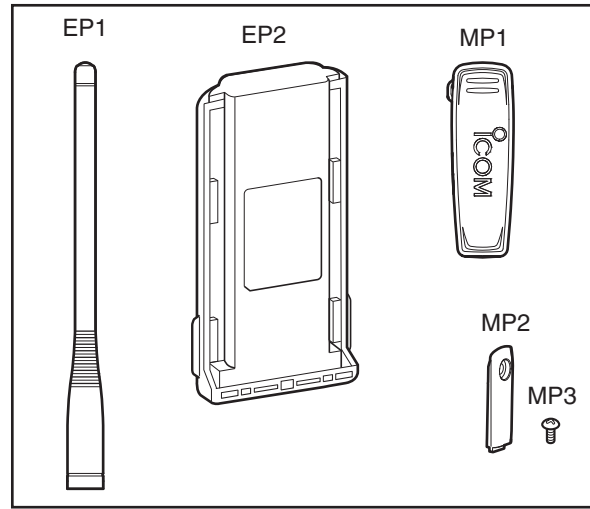
\*: Refer to "BOARD LAYOUTS" for the location.

\*\* : 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

[ACCESSORIES]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
EP1	(Optional)	FA-S65V	1
EP2	(Optional)	BP-254	1
MP1	(Optional)	MB-115	1
MP2	8210024790	3062 SIDE PANEL	1
MP3	8810010771	D6.9 TRUSS M4X5 SUS SSBC	1





[MAIN UNIT]

Table with 5 columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains parts list for the main unit.

[MAIN UNIT]

Table with 5 columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains parts list for the main unit.

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







[FUSE UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200006190	S.COI BLM21PG300SN1D (BLM21P300S)	T	8.5/10.2
C1	4030016930	S.CER C1005 JB 1A 104K-T	T	4.5/9.3
C2	4030017460	S.CER C1005 JB 1H 102K-T	T	5.4/9.3
C3	4030017420	S.CER C1005 CH 1H 470J-T	T	6.3/9.3
C4	4030017420	S.CER C1005 CH 1H 470J-T	T	8.8/8.7
C5	4030017460	S.CER C1005 JB 1H 102K-T	T	8.8/7.8
C6	4030016930	S.CER C1005 JB 1A 104K-T	T	11.1/9.8
J1	6910016860	CON IMSA-9230B-1-02Z150-PT1		
F1	5210001160	S.FUS ERBRE3R00V	T	11.0/8.1

[ANT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200013450	S.COI 0.40-2.4-5TL 43.3N <COMO>	T	3.3/10.2
R1	7030003680	S.RES ERJ3GEYJ 104 V (100K)	T	2.6/6.0
C1	4030007050	S.CER C1608 CH 1H 220J-T	T	2.6/14.1
C3	4030009990	S.CER C1608 CH 1H 200J-T	T	2.6/7.6
C4	4030007030	S.CER C1608 CH 1H 150J-T	T	2.6/12.8

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

[VR UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R1	7210003300	VAR TP76N937N-21.5F-10KA-3062		
J1	6910017680	CON IMSA-9230B-1-04Z140-PT1		

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140010771	S.IC HD64F3687FPV(EMPTY)	B	65.5/19.0
IC2	1130013050	S.IC HD74LV2GT125AUSE-E	B	78.9/20.6
IC3	1110005330	S.IC NJM12904V-TE1-#ZZZB	B	102.6/15.8
IC5	1110005310	S.IC AN6123MS	B	99.6/35.8
IC6	1110006770	S.IC TDA8547TS/N <RYO>	T	113.7/13.2
IC7	1140013200	S.IC CD4053BPWR	B	113.5/35.7
IC9	1130013040	S.IC TC7WBD125AFK(T5LF)	B	80.2/23.1
IC401	1110008030	S.IC AK2346BP-E2	B	47.6/21.3
IC402	1130008230	S.IC BU4053BCFV-E2	B	64.2/32.1
IC403	1110006470	S.IC LMV324IPWR	B	26.9/21.5
IC404	1110007290	S.IC AK2330P-L	B	66.0/21.9
IC405	1130011741	S.IC TC7W66FK(TE85LF)	B	77.0/29.4
IC408	1110006470	S.IC LMV324IPWR	B	79.5/36.6
Q1	1590000980	S.TRA DTB123EK T146	T	116.2/31.1
Eqv.	1590004870	S.FET PDTB123ET215 <RYO>		
Q2	1590004210	S.TRA DRC9114Y0L	T	117.2/27.9
Q4	1590004590	S.TRA DMC506010R	T	113.3/20.6
Q5	1520000460	S.TRA 2SB1132 T100 R	B	108.9/21.7
Eqv.	1520000910	S.TRA 2SB1132L-R-AB3-R <SLVJ>		
Q6	1590004210	S.TRA DRC9114Y0L	T	118.8/36.1
Q7	1590004210	S.TRA DRC9114Y0L	T	109.0/12.0
Q8	1590004500	S.TRA DMC561040R	T	138.0/13.4
Q9	1590004290	S.TRA DRA9114Y0L	T	114.9/34.6
Q11	1590004210	S.TRA DRC9114Y0L	B	109.0/9.3
Q12	1510000920	S.TRA 2SA1577 T106 Q	B	111.6/9.9
Q13	1590004490	S.TRA DMG564030R	B	104.5/30.5
Q409	1590004210	S.TRA DRC9114Y0L	B	21.4/16.1
Q417	1590004210	S.TRA DRC9114Y0L	B	73.3/31.9
Q418	1560001360	S.FET 2SK3019 TL	B	72.0/34.7
Eqv.	1560001840	S.FET 2SK3107-T1-AT		
Eqv.	1560001860	S.FET 2SK1824-T1-A		
D1	1750002210	S.DIO DA2S00100L	B	92.2/12.9
D2	1750002020	S.DIO DA2S10100L	B	104.0/15.3
D3	1750001850	S.DIO LDAN222T1G <SLVJ>	T	116.7/7.8
D4	1750001850	S.DIO LDAN222T1G <SLVJ>	B	133.5/11.5
D5	1750002170	S.DIO DB2S31400L	T	110.1/22.9
D6	1750002020	S.DIO DA2S10100L	T	118.7/37.7
D7	1750002170	S.DIO DB2S31400L	B	103.4/27.4
X1	6050011720	S.XTA CR-764 SMD-49TB 19.6608 MHz <KDS>	B	94.4/6.5
X401	6050011730	S.XTA CR-765 SMD-49TA 3.6864 MHz <KDS>	B	54.8/10.0
L401	6200011031	S.COI ELJRF R10JFB	B	50.9/26.3
R1	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	74.6/44.7
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]		
R2	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	72.7/44.7
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]		
R3	7030007290	S.RES ERJ2GEJ 222 X (2.2K) Only [F9011T]	B	71.8/44.7
R4	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	96.4/14.4
R5	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	97.3/14.4
R6	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.8/36.6
	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]		
R7	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	92.8/14.4
R8	7030005530	S.RES ERJ2GEJ 100 X (10)	B	94.6/14.4
R9	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	91.0/14.4
R10	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.8/24.0
	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]		
R11	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.8/13.5
	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]		
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	98.2/14.4
R13	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/37.5
	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011T]		
R14	7030010040	S.RES ERJ2GEJ-JPW [F9011B]	B	89.2/14.4
	7030010040	S.RES ERJ2GEJ-JPW [F9011S]		
R15	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	99.1/14.4
R16	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/36.6
	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011T]		
R17	7410001140	S.ARR EXB28V104JX	B	86.3/20.0
R18	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	110.8/19.4
R19	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	110.8/21.3
R21	7410001140	S.ARR EXB28V104JX	B	103.9/24.1
R22	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	115.7/20.2
R23	7410001140	S.ARR EXB28V104JX	B	103.8/21.5
R24	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	104.3/19.7
R25	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	115.7/22.9
R26	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	115.7/22.0
R27	7410001140	S.ARR EXB28V104JX	B	105.0/27.4
R28	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	85.8/26.2
R29	7030010040	S.RES ERJ2GEJ-JPW	B	72.6/39.3
R30	7030004980	S.RES ERJ2GEJ 101 X (100)	B	110.5/31.4
R32	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	73.8/38.0
R33	7030004980	S.RES ERJ2GEJ 101 X (100)	B	103.2/39.1
R34	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	78.4/33.1
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	73.8/38.9
R36	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	76.1/39.9
R37	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	104.3/16.8
R38	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	110.2/28.5
R39	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	96.8/37.7
R40	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	110.7/26.3
R41	7030007060	S.RES ERJ2GEJ 684X (680K)	B	108.0/40.4
R42	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.1/28.5
R43	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	111.5/30.3
R44	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	B	108.0/41.5
R45	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.5/14.8

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



[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C402	4030017420	S.CER C1005 CH 1H 470J-T	B	53.7/23.9
C403	4030017420	S.CER C1005 CH 1H 470J-T	B	42.0/24.8
C404	4030017420	S.CER C1005 CH 1H 470J-T	B	53.7/24.9
C405	4030016970	S.CER C1005 JB 1E 223K-T	B	53.7/17.7
C406	4030017420	S.CER C1005 CH 1H 470J-T	B	42.0/23.9
C407	4030018860	S.CER C1005 JB 0J 105K-T	B	68.2/38.5
C409	4030016930	S.CER C1005 JB 1A 104K-T	B	42.1/15.2
C410	4030017460	S.CER C1005 JB 1H 102K-T	B	40.9/17.5
C411	4030017420	S.CER C1005 CH 1H 470J-T	B	42.0/23.0
C412	4550000460	S.TAN TEESVA 1C 105M8R	B	37.5/20.4
Eqv.	4550007670	S.TAN F931C105MAABMA		
C413	4030017420	S.CER C1005 CH 1H 470J-T	B	39.7/28.4
C415	4550000460	S.TAN TEESVA 1C 105M8R	B	37.5/18.3
Eqv.	4550007670	S.TAN F931C105MAABMA		
C416	4030017760	S.CER C1005 JB 1H 222K-T	B	41.5/30.0
C417	4030016930	S.CER C1005 JB 1A 104K-T	B	43.3/30.0
C418	4030017460	S.CER C1005 JB 1H 102K-T	B	53.7/28.1
C419	4030016930	S.CER C1005 JB 1A 104K-T	B	42.8/28.8
C420	4030017400	S.CER C1005 CH 1H 220J-T	B	51.4/6.2
C421	4030017710	S.CER C1005 CH 1H 181J-T	B	52.5/26.7
C422	4550006250	S.TAN TEESVA 1A 106M8R	B	37.5/22.5
Eqv.	4550007520	S.TAN F931A106MAABMA		
C424	4030017460	S.CER C1005 JB 1H 102K-T	B	39.5/24.2
C425	4030017400	S.CER C1005 CH 1H 220J-T	B	51.4/13.9
C427	4030017780	S.CER C1005 JB 1H 472K-T	B	58.8/32.9
C429	4030018860	S.CER C1005 JB 0J 105K-T	B	54.1/20.5
C430	4030017770	S.CER C1005 JB 1H 332K-T	B	58.9/29.3
C431	4030017030	S.CER C1005 JB 1A 273K-T	B	58.9/30.2
C433	4030018820	S.CER C1005 JB 1H 561K-T	B	59.7/32.9
C434	4030016930	S.CER C1005 JB 1A 104K-T	B	55.3/27.2
C435	4030016930	S.CER C1005 JB 1A 104K-T	B	69.6/28.7
C436	4030016790	S.CER C1005 JB 1E 103K-T	B	69.6/33.6
C438	4030017460	S.CER C1005 JB 1H 102K-T	B	69.6/31.8
C440	4030018900	S.CER C1005 JB 0J 474K-T	B	20.5/25.2
C441	4030016930	S.CER C1005 JB 1A 104K-T	B	84.6/37.0
C442	4030018820	S.CER C1005 JB 1H 561K-T	B	84.9/38.6
C443	4030016930	S.CER C1005 JB 1A 104K-T	B	20.5/21.8
C444	4030016930	S.CER C1005 JB 1A 104K-T	B	69.9/22.6
C445	4030016930	S.CER C1005 JB 1A 104K-T	B	75.0/36.4
C446	4030016930	S.CER C1005 JB 1A 104K-T	B	65.8/17.2
C447	4030016930	S.CER C1005 JB 1A 104K-T	B	80.1/27.7
C448	4030016930	S.CER C1005 JB 1A 104K-T	B	70.3/23.9
C449	4030016930	S.CER C1005 JB 1A 104K-T	B	73.8/27.7
C451	4030016930	S.CER C1005 JB 1A 104K-T	B	63.4/26.2
C452	4030017460	S.CER C1005 JB 1H 102K-T	B	62.5/26.2
C453	4030016930	S.CER C1005 JB 1A 104K-T	B	33.7/17.0
C456	4030018860	S.CER C1005 JB 0J 105K-T	B	61.7/20.1
C457	4030017420	S.CER C1005 CH 1H 470J-T	B	32.0/17.0
C460	4030018910	S.CER C1608 JB 0J 475K-T	B	70.2/36.7
C461	4030017420	S.CER C1005 CH 1H 470J-T	B	23.5/15.2
C462	4030017910	S.CER C1005 JB 1H 152K-T	B	32.0/18.8
C464	4030016930	S.CER C1005 JB 1A 104K-T	B	23.5/16.1
C465	4030017430	S.CER C1005 CH 1H 101J-T	B	32.0/19.7
C466	4030016930	S.CER C1005 JB 1A 104K-T	B	19.7/31.1
C469	4030017750	S.CER C1005 JB 1H 122K-T	B	21.4/20.1
C472	4030017420	S.CER C1005 CH 1H 470J-T	B	32.0/24.2
C473	4030016930	S.CER C1005 JB 1A 104K-T	B	23.5/18.8
C474	4030017760	S.CER C1005 JB 1H 222K-T	B	32.0/22.4
C475	4030016960	S.CER C1005 JB 1E 183K-T	B	25.2/16.1
C476	4030017690	S.CER C1005 CH 1H 121J-T	B	30.3/24.2
C477	4030016930	S.CER C1005 JB 1A 104K-T	B	20.5/20.1
C478	4030017460	S.CER C1005 JB 1H 102K-T	B	19.6/20.1
C479	4030017460	S.CER C1005 JB 1H 102K-T	B	33.7/20.6
C480	4030016930	S.CER C1005 JB 1A 104K-T	B	64.2/17.1
C482	4030017460	S.CER C1005 JB 1H 102K-T	B	84.0/35.4
C484	4030018860	S.CER C1005 JB 0J 105K-T	B	62.8/19.2
C485	4030018860	S.CER C1005 JB 0J 105K-T	B	33.7/17.9
C486	4030016930	S.CER C1005 JB 1A 104K-T	B	68.9/36.7
J1	6510027910	S.CON IMSA-9631S-20Y933	B	77.7/13.4
J2	6510027940	S.CON IMSA-9631S-08Y933 [F9011S]	B	125.2/37.3
	6510027940	S.CON IMSA-9631S-08Y933 [F9011T]		
J3	6510027930	S.CON IMSA-9631S-14Y933	B	123.8/11.3
J4	6510027900	S.CON IMSA-9631S-10Y933	B	116.4/25.3
J5	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	114.5/16.5
J406	6510022221	S.CON 36FLZ-SM2-R-TB(LF)(SN)	B	37.5/7.1
DS1	5030003140	LCD M7-0626TIZ <TES> [F9011S]		
	5030003140	LCD M7-0626TIZ <TES> [F9011T]		
DS2	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/31.3
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS3	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/16.8
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS4	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/31.3
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS5	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/16.8
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS6	5040003280	S.LED RY-SP192UYG24-5M <VKH> Only [F9011T]	T	28.6/31.3
DS7	5040003280	S.LED RY-SP192UYG24-5M <VKH> Only [F9011T]	T	28.6/16.8
DS8	5040003280	S.LED RY-SP192UYG24-5M <VKH> Only [F9011T]	T	20.6/31.3
DS9	5040003280	S.LED RY-SP192UYG24-5M <VKH> Only [F9011T]	T	20.6/16.8

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

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
DS10	5040003280	S.LED RY-SP192UYG24-5M <VKH> Only [F9011T]	T	12.6/31.3
DS11	5040003280	S.LED RY-SP192UYG24-5M <VKH> Only [F9011T]	T	12.6/16.8
DS12	5040002961	S.LED SML-A12MT T86J [F9011S]	T	107.4/34.5
	5040002961	S.LED SML-A12MT T86J [F9011T]		
DS13	5040002961	S.LED SML-A12MT T86J [F9011S]	T	107.4/24.0
	5040002961	S.LED SML-A12MT T86J [F9011T]		
DS14	5040002961	S.LED SML-A12MT T86J [F9011S]	T	107.4/13.5
	5040002961	S.LED SML-A12MT T86J [F9011T]		
DS16	5040003141	S.LED FRMG1211C-TR	T	143.5/11.1
DS17	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/32.6
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS19	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/15.4
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
MC1	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011S]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011T]		
MC2	7700002760	MIC EM6027P-46C33-G-01 <HOR> Only [F9011B]		
S23	2230001060	S.SWI EVQ-PUL 02K	B	143.5/5.8
S25	2260002800	S.SWI SW-167 (SKQTLAE010)	B	128.9/47.0
S26	2260002800	S.SWI SW-167 (SKQTLAE010)	B	119.4/47.0
S27	2260002800	S.SWI SW-167 (SKQTLAE010)	B	109.9/47.0
EP2	6910018460	S.BEA MMZ1005Y102C-T	B	113.1/22.1
EP401	6910015600	S.BEA ACZ1005Y-241 (240)	B	41.7/18.4
EP403	6910015370	S.BEA ACZ1005Y-102-T	B	37.9/24.2

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

[JACK UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	9.1/35.5
D2	1790001810	S.VAR AVR-M1005C080MTABB	B	7.5/35.5
D3	1790001810	S.VAR AVR-M1005C080MTABB	B	10.3/33.7
D4	1790001810	S.VAR AVR-M1005C080MTABB	B	8.8/33.7
D5	1790001810	S.VAR AVR-M1005C080MTABB	B	7.9/33.7
D6	1790001810	S.VAR AVR-M1005C080MTABB	B	7.0/33.7
J1	6510027930	S.CON IMSA-9631S-14Y933	T	8.4/31.7
EP1	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/33.5
EP2	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/34.8
EP3	6910012350	S.BEA MMZ1608Y 102BT	B	5.0/36.0
EP4	6910012350	S.BEA MMZ1608Y 102BT	T	1.9/23.5

[SW UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R2	7030005010	S.RES ERJ2GEJ 681 X (680)	T	4.0/9.9
J1	6510027900	S.CON IMSA-9631S-10Y933	B	6.5/3.3
J2	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	2.5/8.9
DS1	5040003170	LED UW3804X		
S2	2250000611	ENC TP70H1059-24.5F-3062A		

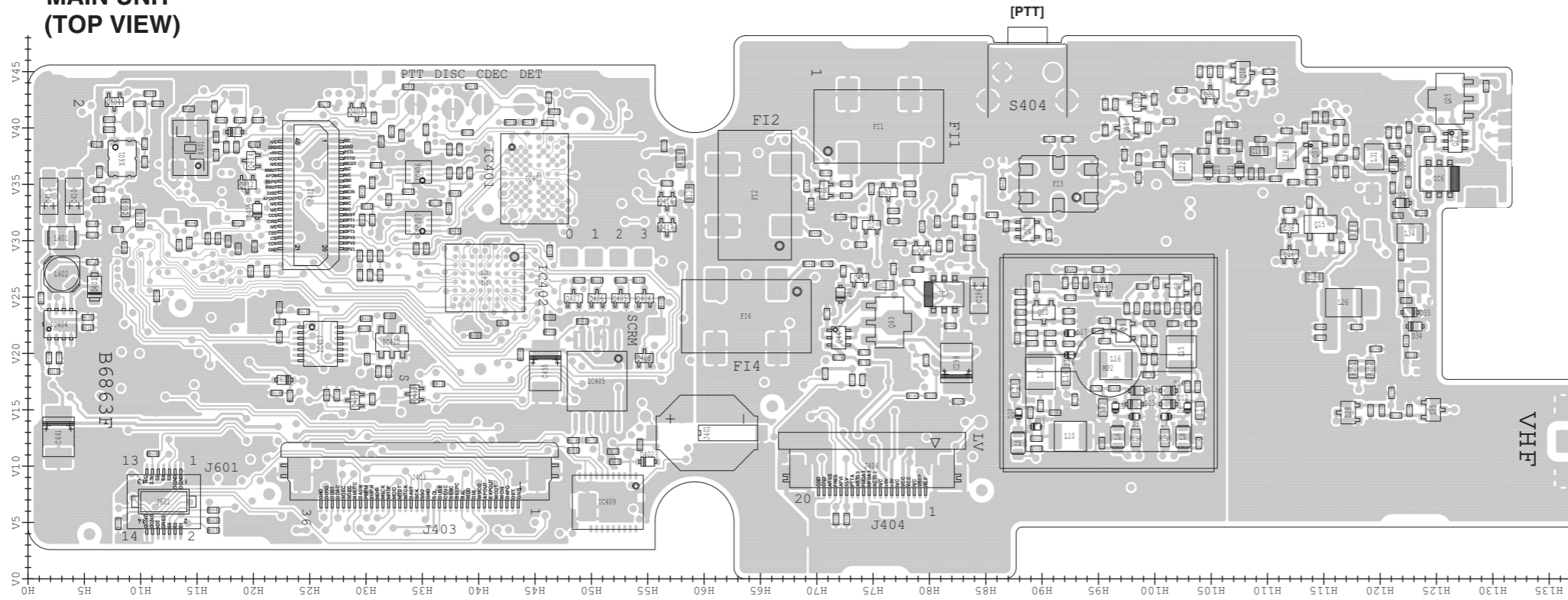
Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

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

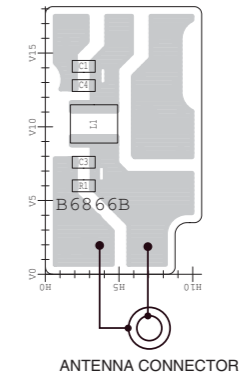
# BOARD LAYOUTS

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

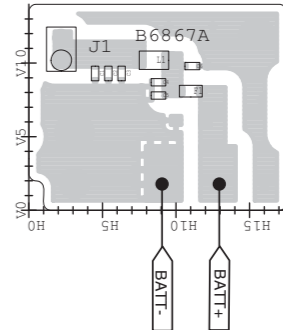
## • MAIN UNIT (TOP VIEW)



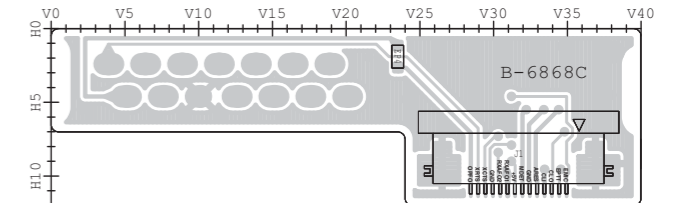
## • ANT UNIT (TOP VIEW)



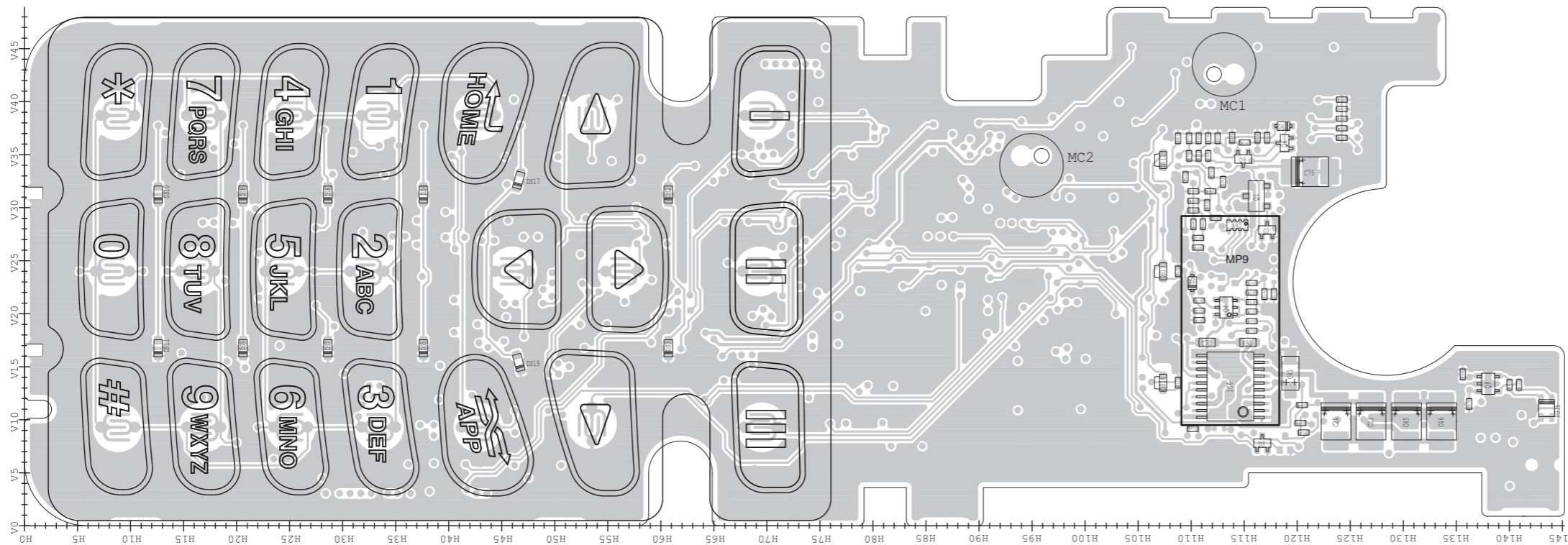
## • FUSE UNIT (TOP VIEW)



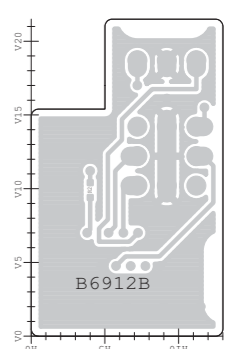
## • JACK UNIT (TOP VIEW)



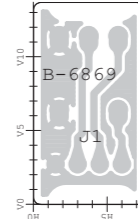
## • FRONT UNIT (TOP VIEW)



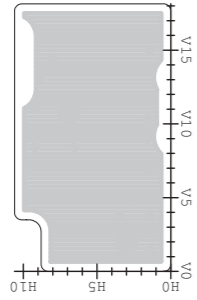
## • SW UNIT (TOP VIEW)



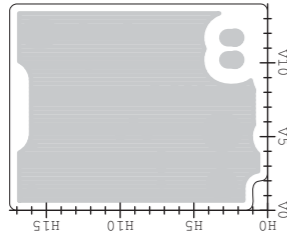
## • VR UNIT (TOP VIEW)



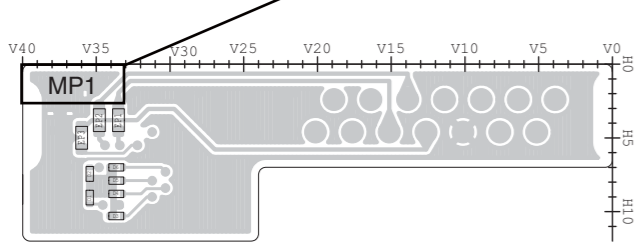
• ANT UNIT  
(BOTTOM VIEW)



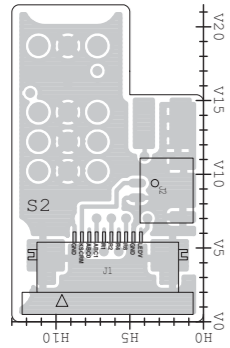
• FUSE UNIT  
(BOTTOM VIEW)



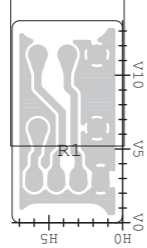
• JACK UNIT  
(BOTTOM VIEW)



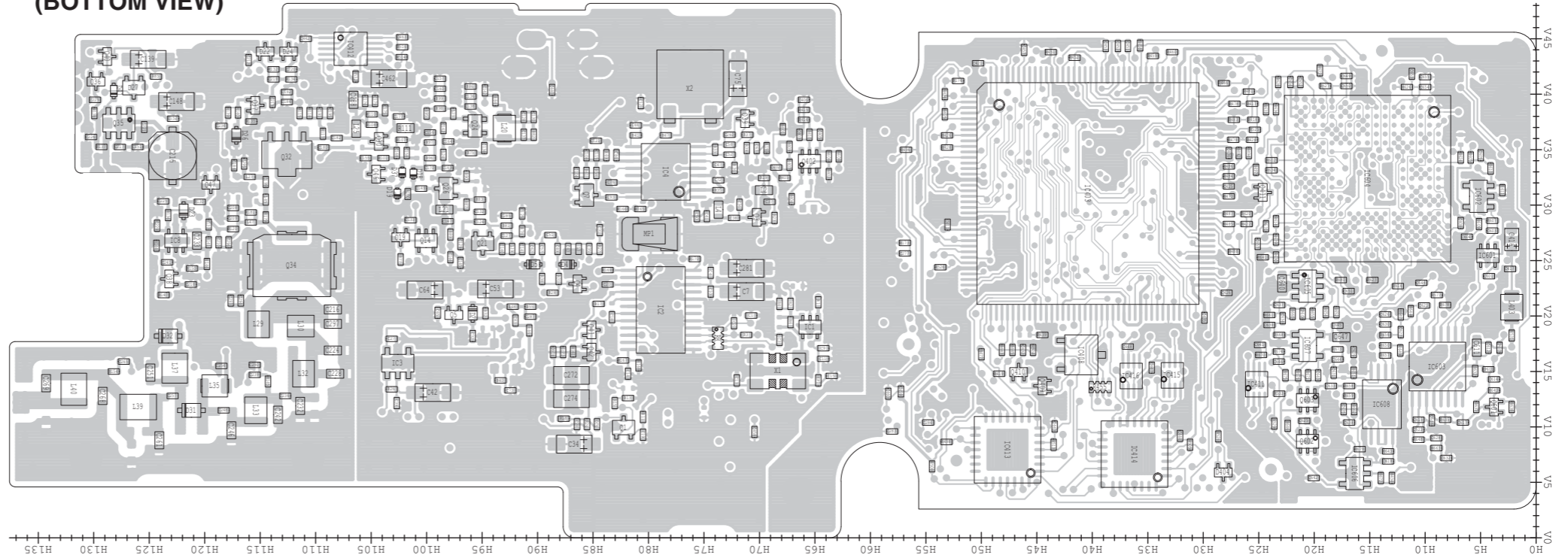
• SW UNIT  
(BOTTOM VIEW)



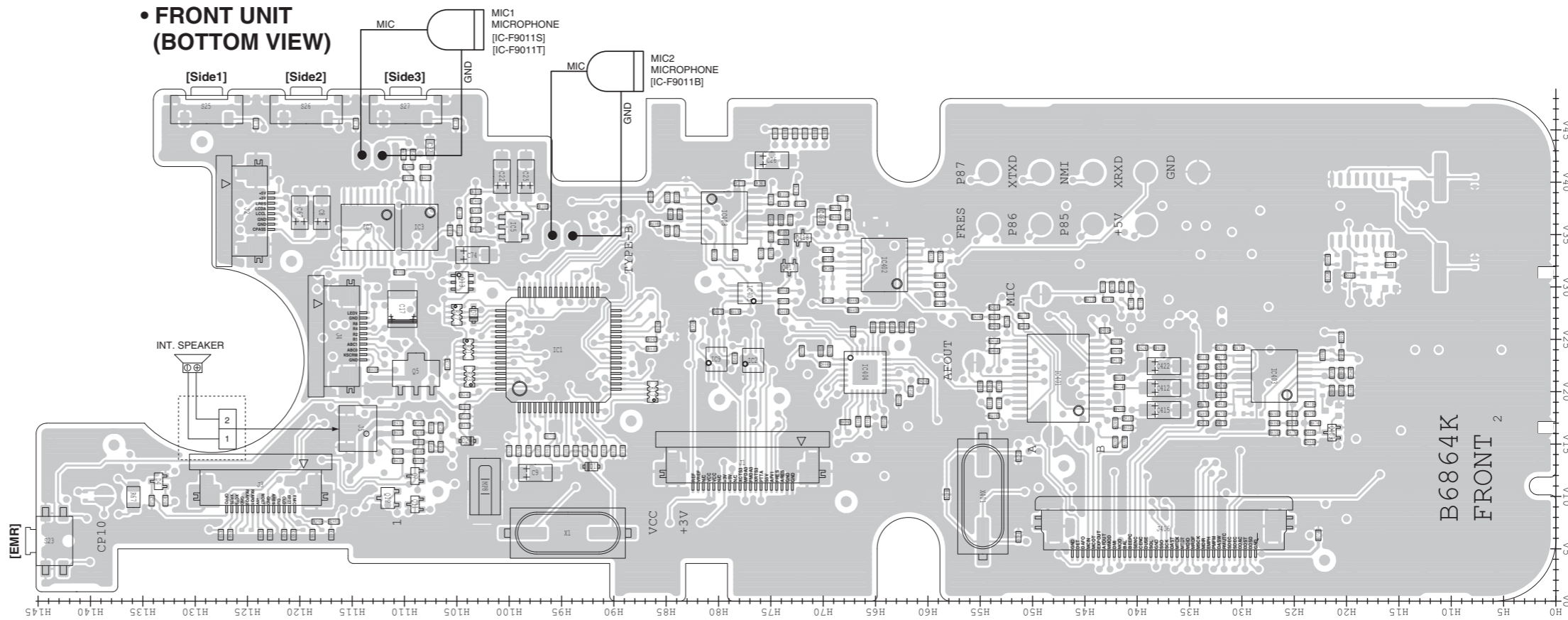
• VR UNIT  
(BOTTOM VIEW)



• MAIN UNIT  
(BOTTOM VIEW)



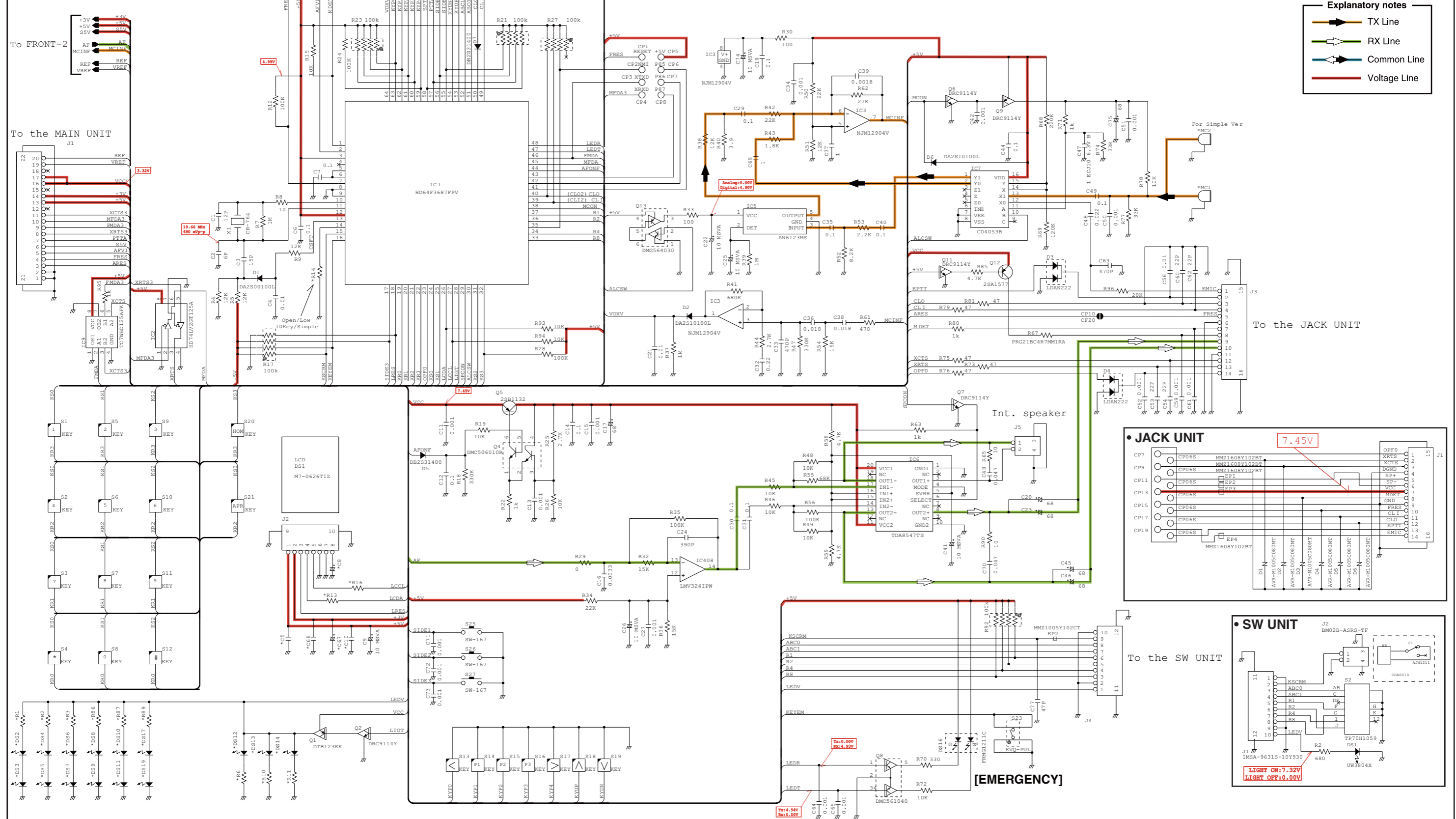
• FRONT UNIT  
(BOTTOM VIEW)



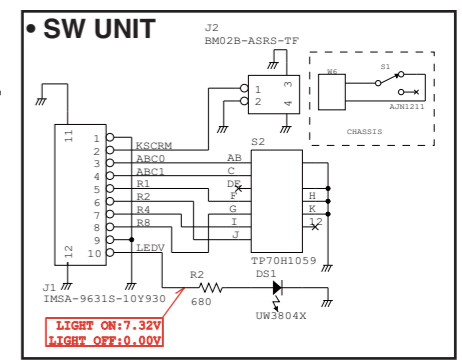
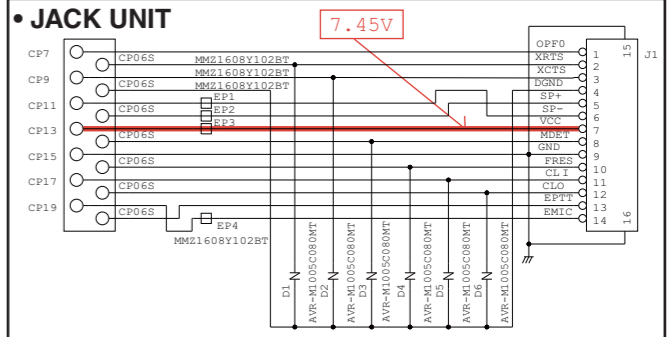
B6864K  
FRONT 2

# VOLTAGE DIAGRAM

## • FRONT UNIT (1/2)

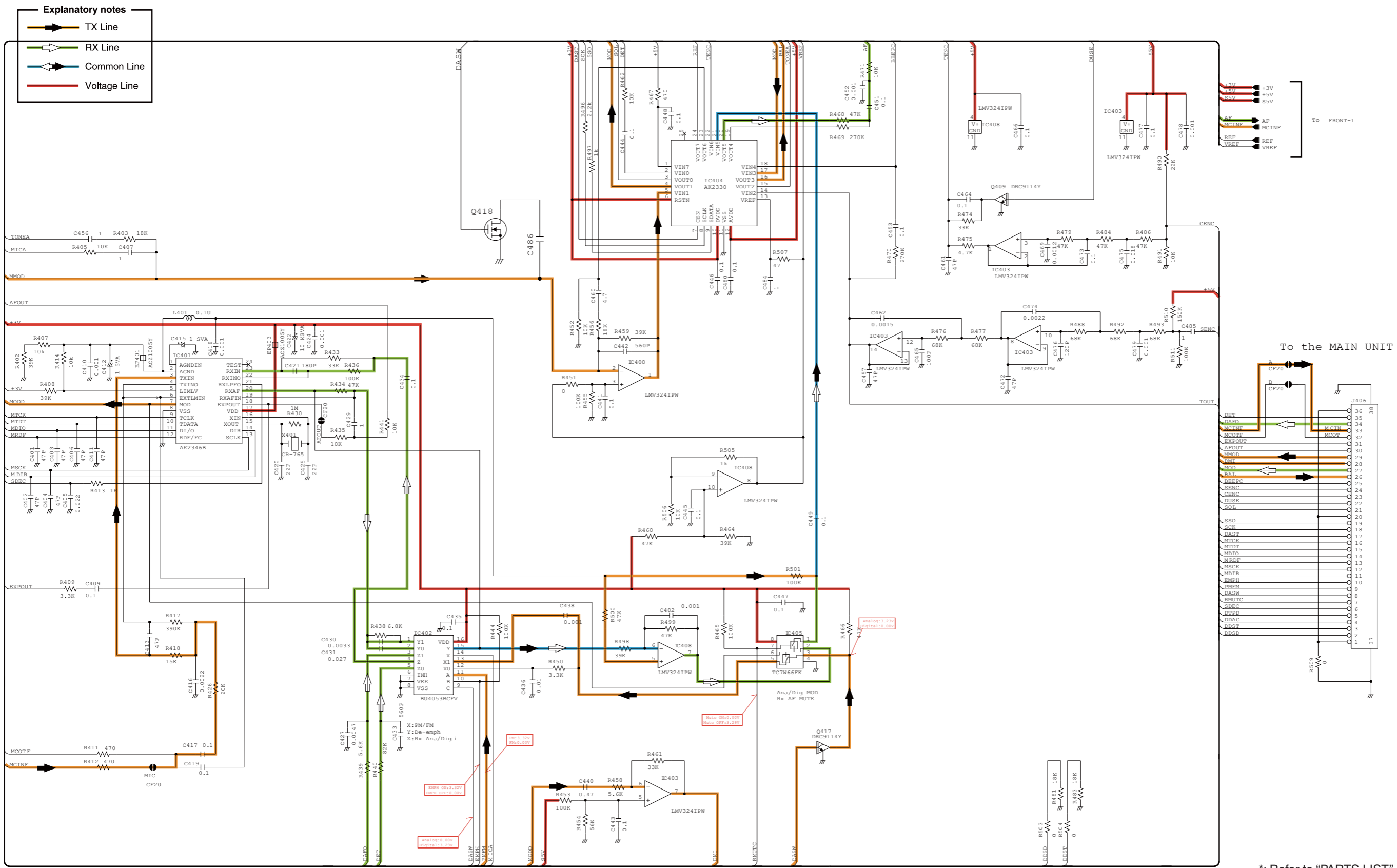


- Explanatory notes**
- TX Line
  - RX Line
  - Common Line
  - Voltage Line



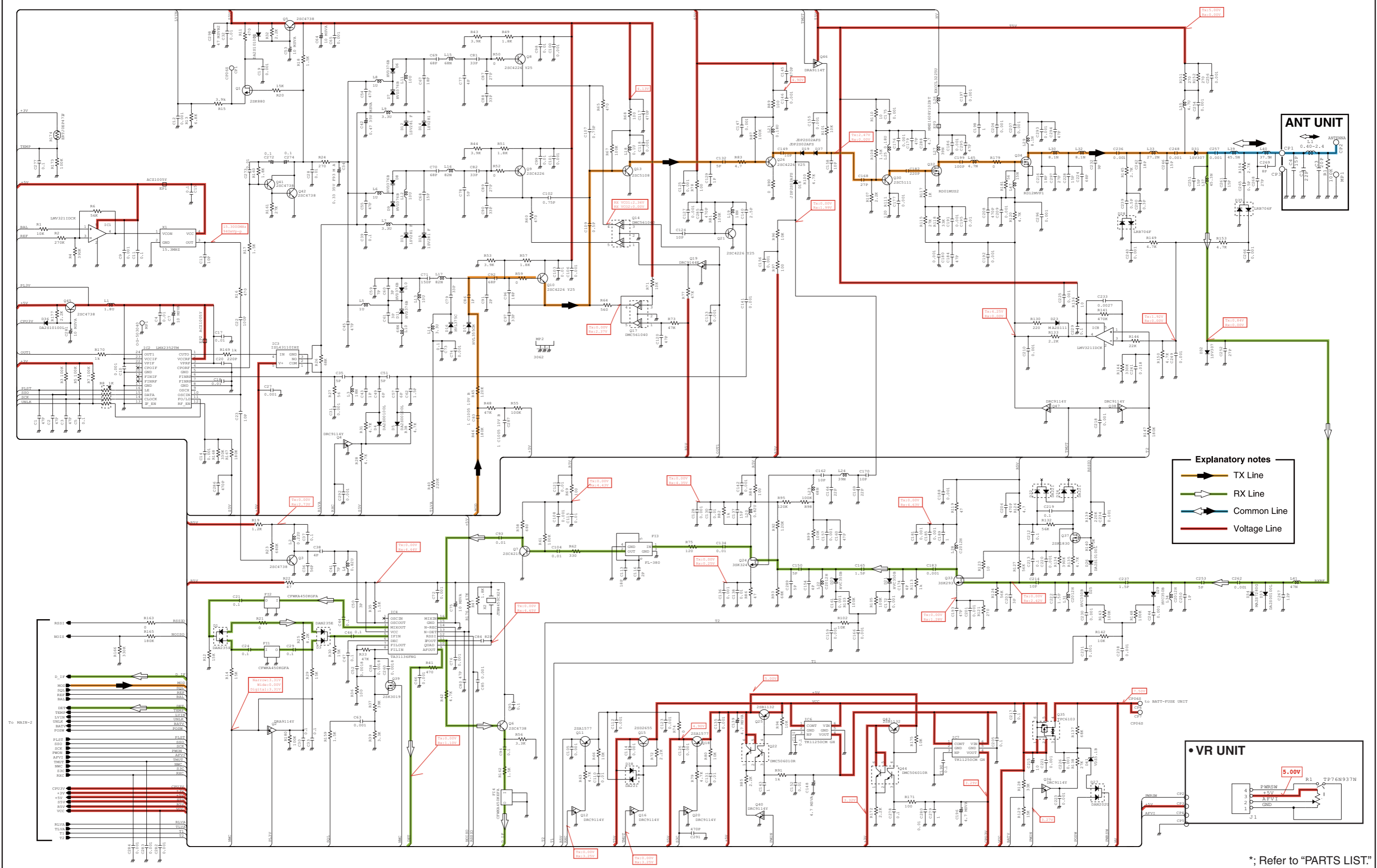
\*; Refer to "PARTS LIST."

• FRONT UNIT (2/2)



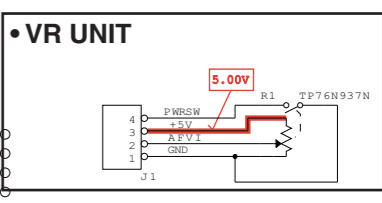
\*; Refer to "PARTS LIST."

• MAIN UNIT (1/3)



**Explanatory notes**

- ▶ TX Line
- ▶ RX Line
- ▶ Common Line
- ▶ Voltage Line



\*; Refer to "PARTS LIST."

Feb. 2012



# SERVICE MANUAL ADDENDUM

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## IC-F9011B IC-F9011T IC-F9011S

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[FUSE UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200006190	S.COI BLM21PG300SN1D (BLM21P300S)	T	8.5/10.2
C1	4030016930	S.CER C1005 JB 1A 104K-T	T	4.5/9.3
C2	4030017460	S.CER C1005 JB 1H 102K-T	T	5.4/9.3
C3	4030017420	S.CER C1005 CH 1H 470J-T	T	6.3/9.3
C4	4030017420	S.CER C1005 CH 1H 470J-T	T	8.8/8.7
C5	4030017460	S.CER C1005 JB 1H 102K-T	T	8.8/7.8
C6	4030016930	S.CER C1005 JB 1A 104K-T	T	11.1/9.8
J1	6910016860	CON IMSA-9230B-1-02Z150-PT1		
F1	5210001160	S.FUS ERBRE3R00V	T	11.0/8.1

[ANT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200013450	S.COI 0.40-2.4-5TL 43.3N <COMO>	T	3.3/10.2
R1	7030003680	S.RES ERJ3GEYJ 104 V (100K)	T	2.6/6.0
C1	4030007050	S.CER C1608 CH 1H 220J-T	T	2.6/14.1
C3	4030009990	S.CER C1608 CH 1H 200J-T	T	2.6/7.6
C4	4030007030	S.CER C1608 CH 1H 150J-T	T	2.6/12.8

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

[VR UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R1	7210003300	VAR TP76N937N-21.5F-10KA-3062		
J1	6910017680	CON IMSA-9230B-1-04Z140-PT1		

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140010771	S.IC HD64F3687FPV(EMPTY)	B	65.5/19.0
IC2	1130013050	S.IC HD74LV2GT125AUSE-E	B	78.9/20.6
IC3	1110005330	S.IC NJM12904V-TE1-#ZZZB	B	102.6/15.8
IC5	1110005310	S.IC AN6123MS	B	99.6/35.8
IC6	1110006770	S.IC TDA8547TS/N <RYO>	T	113.7/13.2
IC7	1140013200	S.IC CD4053BPWR	B	113.5/35.7
IC9	1130013040	S.IC TC7WBD125AFK(T5LF)	B	80.2/23.1
IC401	1110006221	S.IC AK2346P-E2/P	B	47.6/21.3
IC402	1130008230	S.IC BU4053BCFV-E2	B	64.2/32.1
IC403	1110006470	S.IC LMV324IPWR	B	26.9/21.5
IC404	1110007290	S.IC AK2330P-L	B	66.0/21.9
IC405	1130011741	S.IC TC7W66FK(TE85LF)	B	77.0/29.4
IC408	1110006470	S.IC LMV324IPWR	B	79.5/36.6
Q1	1590000980	S.TRA DTB123EK T146	T	116.2/31.1
Q2	1590003451	S.TRA UNR9214GOL	T	117.2/27.9
Q4	1590001190	S.TRA XP6501-(TX).AB	T	113.3/20.6
Q5	1520000460	S.TRA 2SB1132 T100 R	B	108.9/21.7
Eqv.	1520000910	S.TRA 2SB1132L-R-AB3-R <SLVJ>		
Q6	1590003451	S.TRA UNR9214GOL	T	118.8/36.1
Q7	1590003451	S.TRA UNR9214GOL	B	109.0/12.0
Q8	1590001400	S.TRA XP1214(TX)	T	138.0/13.4
Q9	1590003241	S.TRA UNR9114GOL	T	114.9/34.6
Q11	1590003451	S.TRA UNR9214GOL	B	109.0/9.3
Q12	1510000920	S.TRA 2SA1577 T106 Q	B	111.6/9.9
Q13	1590003550	S.TRA XP4313(TX)	B	104.5/30.5
Q409	1590003451	S.TRA UNR9214GOL	B	21.4/16.1
Q417	1590003451	S.TRA UNR9214GOL	B	73.3/31.9
Q418	1560001360	S.FET 2SK3019 TL	B	72.0/34.7
Eqv.	1560001840	S.FET 2SK3107-T1-AT		
Eqv.	1560001860	S.FET 2SK1824-T1-A		
D1	1790001261	S.DIO MA2S077G0L	B	92.2/12.9
D2	1790001251	S.DIO MA2S1110GL	B	104.0/15.3
D3	1750001850	S.DIO LDAN222T1G <SLVJ>	T	116.7/7.8
D4	1750001850	S.DIO LDAN222T1G <SLVJ>	B	133.5/11.5
D5	1790001241	S.DIO MA2S7280GL	T	110.1/22.9
D6	1790001251	S.DIO MA2S1110GL	T	118.7/37.7
D7	1750002170	S.DIO DB2S31400L	B	103.4/27.4
X1	6050011720	S.XTA CR-764 SMD-49TB 19.6608 MHz <KDS>	B	94.4/6.5
X401	6050011730	S.XTA CR-765 SMD-49TA 3.6864 MHz <KDS>	B	54.8/10.0
L401	6200011031	S.COI ELJRF R10JFB	B	50.9/26.3
R1	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	74.6/44.7
R2	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]	B	72.7/44.7
R3	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]		
	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T] only	B	71.8/44.7
R4	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	96.4/14.4
R5	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	97.3/14.4
R6	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.8/36.6
	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]		
R7	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	92.8/14.4
R8	7030005530	S.RES ERJ2GEJ 100 X (10)	B	94.6/14.4
R9	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	91.0/14.4
R10	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.8/24.0
	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]		
R11	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.8/13.5
	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]		
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	98.2/14.4
R13	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/37.5
	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011T]		
R14	7030010040	S.RES ERJ2GEJ-JPW [F9011B]	B	89.2/14.4
	7030010040	S.RES ERJ2GEJ-JPW [F9011S]		
R15	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	99.1/14.4
R16	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/36.6
	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011T]		
R17	7410001140	S.ARR EXB28V104JX	B	86.3/20.0
R18	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	110.8/19.4
R19	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	110.8/21.3
R21	7410001140	S.ARR EXB28V104JX	B	103.9/24.1
R22	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	115.7/20.2
R23	7410001140	S.ARR EXB28V104JX	B	103.8/21.5
R24	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	104.3/19.7
R25	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	115.7/22.9
R26	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	115.7/22.0
R27	7410001140	S.ARR EXB28V104JX	B	105.0/27.4
R28	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	85.8/26.2
R29	7030010040	S.RES ERJ2GEJ-JPW	B	72.6/39.3
R30	7030004980	S.RES ERJ2GEJ 101 X (100)	B	110.5/31.4
R32	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	73.8/38.0
R33	7030004980	S.RES ERJ2GEJ 101 X (100)	B	103.2/39.1
R34	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	78.4/33.1
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	73.8/38.9
R36	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	76.1/39.9
R37	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	104.3/16.8
R38	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	110.2/28.5
R39	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	96.8/37.7
R40	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	110.7/26.3
R41	7030007060	S.RES ERJ2GEJ 684X (680K)	B	108.0/40.4
R42	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.1/28.5
R43	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	111.5/30.3
R44	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	B	108.0/41.5
R45	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.5/14.8
R46	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.5/16.6

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



[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C403	4030017420	S.CER C1005 CH 1H 470J-T	B	42.2/24.8
C404	4030017420	S.CER C1005 CH 1H 470J-T	B	53.7/24.9
C405	4030016970	S.CER C1005 JB 1E 223K-T	B	53.7/17.7
C406	4030017420	S.CER C1005 CH 1H 470J-T	B	42.2/23.9
C407	4030018860	S.CER C1005 JB 0J 105K-T	B	68.2/38.5
C409	4030016930	S.CER C1005 JB 1A 104K-T	B	42.1/15.2
C410	4030017460	S.CER C1005 JB 1H 102K-T	B	40.9/17.5
C411	4030017420	S.CER C1005 CH 1H 470J-T	B	42.2/23.0
C412	4550000460	S.TAN TEESVA 1C 105M8R	B	37.5/20.4
Eqv.	4550007670	S.TAN F931C105MAABMA		
C413	4030017420	S.CER C1005 CH 1H 470J-T	B	39.7/28.4
C415	4550000460	S.TAN TEESVA 1C 105M8R	B	37.5/18.3
Eqv.	4550007670	S.TAN F931C105MAABMA		
C416	4030017760	S.CER C1005 JB 1H 222K-T	B	41.5/30.0
C417	4030016930	S.CER C1005 JB 1A 104K-T	B	43.3/30.0
C418	4030017460	S.CER C1005 JB 1H 102K-T	B	53.7/28.1
C419	4030016930	S.CER C1005 JB 1A 104K-T	B	42.8/28.8
C420	4030017400	S.CER C1005 CH 1H 220J-T	B	51.4/6.2
C421	4030017710	S.CER C1005 CH 1H 181J-T	B	52.5/26.7
C422	4550007520	S.TAN F931A106MAABMA	B	37.5/22.5
Eqv.	4550006250	S.TAN TEESVA 1A 106M8R		
C424	4030017460	S.CER C1005 JB 1H 102K-T	B	39.5/24.2
C425	4030017400	S.CER C1005 CH 1H 220J-T	B	51.4/13.9
C427	4030017780	S.CER C1005 JB 1H 472K-T	B	58.8/32.9
C429	4030018860	S.CER C1005 JB 0J 105K-T	B	54.1/20.5
C430	4030017770	S.CER C1005 JB 1H 332K-T	B	58.9/29.3
C431	4030017030	S.CER C1005 JB 1A 273K-T	B	58.9/30.2
C433	4030018820	S.CER C1005 JB 1H 561K-T	B	59.7/32.9
C434	4030016930	S.CER C1005 JB 1A 104K-T	B	55.3/27.2
C435	4030016930	S.CER C1005 JB 1A 104K-T	B	69.6/28.7
C436	4030016790	S.CER C1005 JB 1E 103K-T	B	69.6/33.6
C438	4030017460	S.CER C1005 JB 1H 102K-T	B	69.6/31.8
C440	4030018900	S.CER C1005 JB 0J 474K-T	B	20.5/25.2
C441	4030016930	S.CER C1005 JB 1A 104K-T	B	84.6/37.0
C442	4030018820	S.CER C1005 JB 1H 561K-T	B	84.9/38.6
C443	4030016930	S.CER C1005 JB 1A 104K-T	B	20.5/21.8
C444	4030016930	S.CER C1005 JB 1A 104K-T	B	69.9/22.6
C445	4030016930	S.CER C1005 JB 1A 104K-T	B	75.0/36.4
C446	4030016930	S.CER C1005 JB 1A 104K-T	B	65.8/17.2
C447	4030016930	S.CER C1005 JB 1A 104K-T	B	80.1/27.7
C448	4030016930	S.CER C1005 JB 1A 104K-T	B	70.3/23.9
C449	4030016930	S.CER C1005 JB 1A 104K-T	B	73.8/27.7
C451	4030016930	S.CER C1005 JB 1A 104K-T	B	63.4/26.2
C452	4030017460	S.CER C1005 JB 1H 102K-T	B	62.5/26.2
C453	4030016930	S.CER C1005 JB 1A 104K-T	B	33.7/17.0
C456	4030018860	S.CER C1005 JB 0J 105K-T	B	61.7/20.1
C457	4030017420	S.CER C1005 CH 1H 470J-T	B	32.0/17.0
C460	4030018910	S.CER C1608 JB 0J 475K-T	B	70.2/36.7
C461	4030017420	S.CER C1005 CH 1H 470J-T	B	23.5/15.2
C462	4030017910	S.CER C1005 JB 1H 152K-T	B	32.0/18.8
C464	4030016930	S.CER C1005 JB 1A 104K-T	B	23.5/16.1
C465	4030017430	S.CER C1005 CH 1H 101J-T	B	32.0/19.7
C466	4030016930	S.CER C1005 JB 1A 104K-T	B	19.7/31.1
C469	4030017750	S.CER C1005 JB 1H 122K-T	B	21.4/20.1
C472	4030017420	S.CER C1005 CH 1H 470J-T	B	32.0/24.2
C473	4030016930	S.CER C1005 JB 1A 104K-T	B	23.5/18.8
C474	4030017760	S.CER C1005 JB 1H 222K-T	B	32.0/22.4
C475	4030016960	S.CER C1005 JB 1E 183K-T	B	25.2/16.1
C476	4030017690	S.CER C1005 CH 1H 121J-T	B	30.3/24.2
C477	4030016930	S.CER C1005 JB 1A 104K-T	B	20.5/20.1
C478	4030017460	S.CER C1005 JB 1H 102K-T	B	19.6/20.1
C479	4030017460	S.CER C1005 JB 1H 102K-T	B	33.7/20.6
C480	4030016930	S.CER C1005 JB 1A 104K-T	B	64.2/17.1
C482	4030017460	S.CER C1005 JB 1H 102K-T	B	84.0/35.4
C484	4030018860	S.CER C1005 JB 0J 105K-T	B	62.8/19.2
C485	4030018860	S.CER C1005 JB 0J 105K-T	B	33.7/17.9
C486	4030016930	S.CER C1005 JB 1A 104K-T	B	68.9/36.7
J1	6510027910	S.CON IMSA-9631S-20Y933	B	77.7/13.4
J2	6510027940	S.CON IMSA-9631S-08Y933 [F9011S]	B	125.2/37.3
	6510027940	S.CON IMSA-9631S-08Y933 [F9011T]		
J3	6510027930	S.CON IMSA-9631S-14Y933	B	123.8/11.3
J4	6510027900	S.CON IMSA-9631S-10Y933	B	116.4/25.3
J5	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	114.5/16.5
J406	6510022221	S.CON 36FLZ-SM2-R-TB(LF)(SN)	B	37.5/7.1
DS1	5030003140	LCD M7-0626TIZ <TES> [F9011S]		
	5030003140	LCD M7-0626TIZ <TES> [F9011T]		
DS2	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/31.3
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS3	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/16.8
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS4	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/31.3
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS5	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/16.8
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS6	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/31.3
DS7	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/16.8
DS8	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/31.3
DS9	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/16.8

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

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
DS10	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/31.3
DS11	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/16.8
			T	107.4/34.5
DS12	5040002961	S.LED SML-A12MT T86J [F9011S]	T	
	5040002961	S.LED SML-A12MT T86J [F9011T]		
DS13	5040002961	S.LED SML-A12MT T86J [F9011S]	T	107.4/24.0
	5040002961	S.LED SML-A12MT T86J [F9011T]		
DS14	5040002961	S.LED SML-A12MT T86J [F9011S]	T	107.4/13.5
	5040002961	S.LED SML-A12MT T86J [F9011T]		
DS16	5040003141	S.LED FRMG1211C-TR	T	143.5/11.1
DS17	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/32.6
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS19	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/15.4
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
MC1	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011S]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011T]		
MC2	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011B] only		
S23	2230001060	S.SWI EVQ-PUL 02K	B	143.5/5.8
S25	2260002800	S.SWI SW-167 (SKQTLAE010)	B	128.9/47.0
S26	2260002800	S.SWI SW-167 (SKQTLAE010)	B	119.4/47.0
S27	2260002800	S.SWI SW-167 (SKQTLAE010)	B	109.9/47.0
EP2	6910018460	S.BEA MMZ1005Y102C-T	B	113.1/22.1
EP401	6910015600	S.BEA ACZ1005Y-241 (240)	B	41.7/18.4
EP403	6910015370	S.BEA ACZ1005Y-102-T	B	37.9/24.2

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

[JACK UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	9.1/35.5
D2	1790001810	S.VAR AVR-M1005C080MTABB	B	7.5/35.5
D3	1790001810	S.VAR AVR-M1005C080MTABB	B	10.3/33.7
D4	1790001810	S.VAR AVR-M1005C080MTABB	B	8.8/33.7
D5	1790001810	S.VAR AVR-M1005C080MTABB	B	7.9/33.7
D6	1790001810	S.VAR AVR-M1005C080MTABB	B	7.0/33.7
J1	6510027930	S.CON IMSA-9631S-14Y933	T	8.4/31.7
EP1	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/33.5
EP2	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/34.8
EP3	6910012350	S.BEA MMZ1608Y 102BT	B	5.0/36.0
EP4	6910012350	S.BEA MMZ1608Y 102BT	T	1.9/23.5

[SW UNIT]

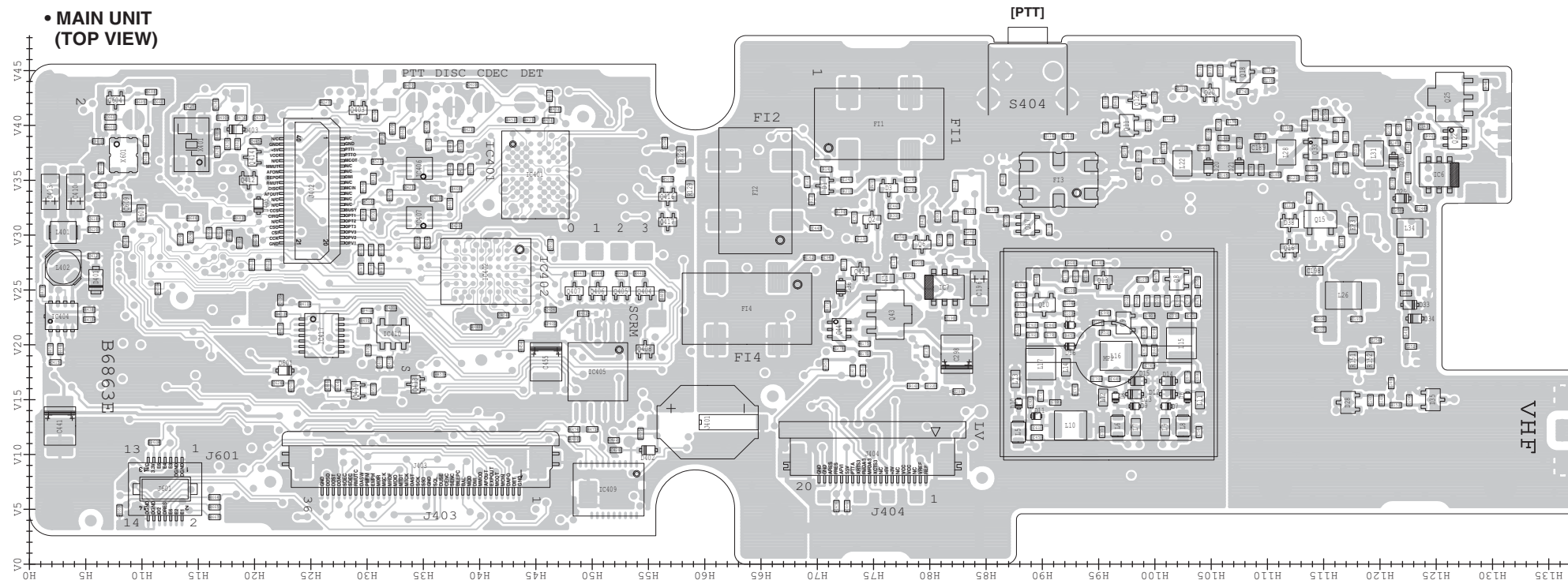
REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R2	7030005010	S.RES ERJ2GEJ 681 X (680)	T	4.0/9.9
J1	6510027900	S.CON IMSA-9631S-10Y933	B	6.5/3.3
J2	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	2.5/8.9
DS1	5040003170	LED UW3804X		
S2	2250000611	ENC TP70H1059-24.5F-3062A		

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

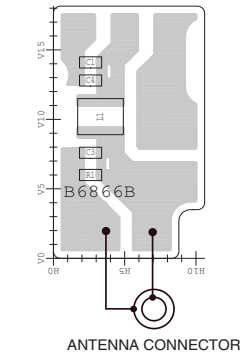
# BOARD LAYOUTS

• MAIN UNIT  
(TOP VIEW)

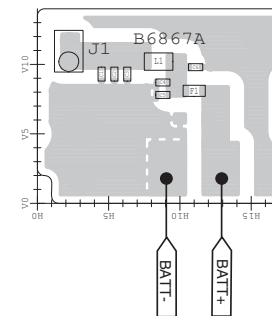


• ANT UNIT  
(TOP VIEW)

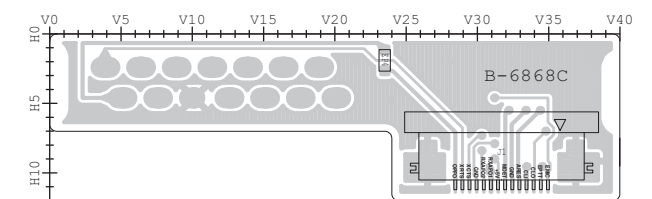
The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.



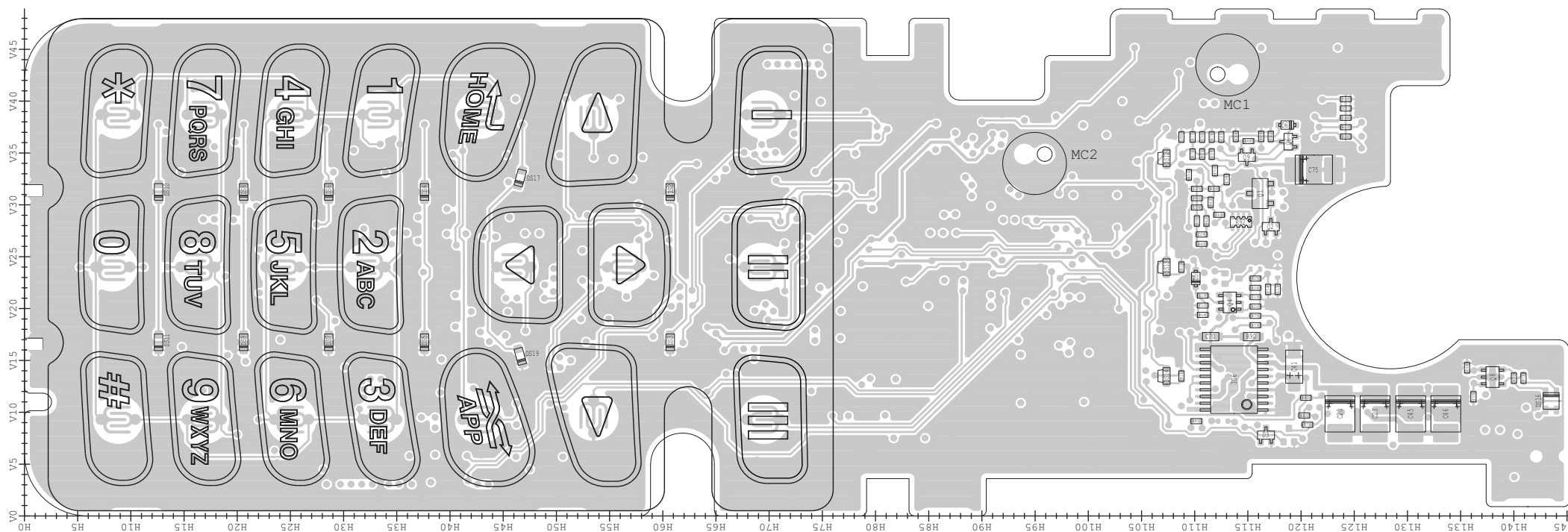
• FUSE UNIT  
(TOP VIEW)



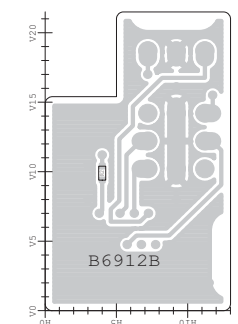
• JACK UNIT  
(TOP VIEW)



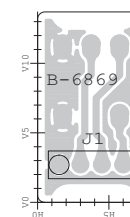
• FRONT UNIT  
(TOP VIEW)



• SW UNIT  
(TOP VIEW)

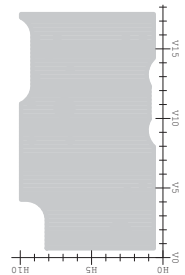


• VR UNIT  
(TOP VIEW)

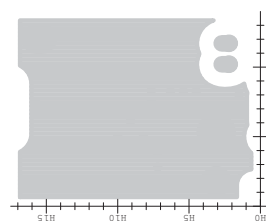


The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

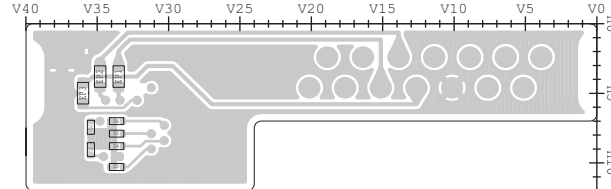
• ANT UNIT (BOTTOM VIEW)



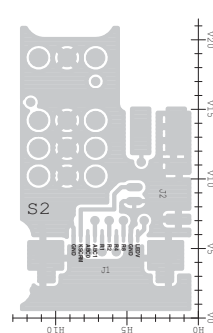
• FUSE UNIT (BOTTOM VIEW)



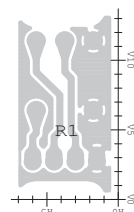
• JACK UNIT (BOTTOM VIEW)



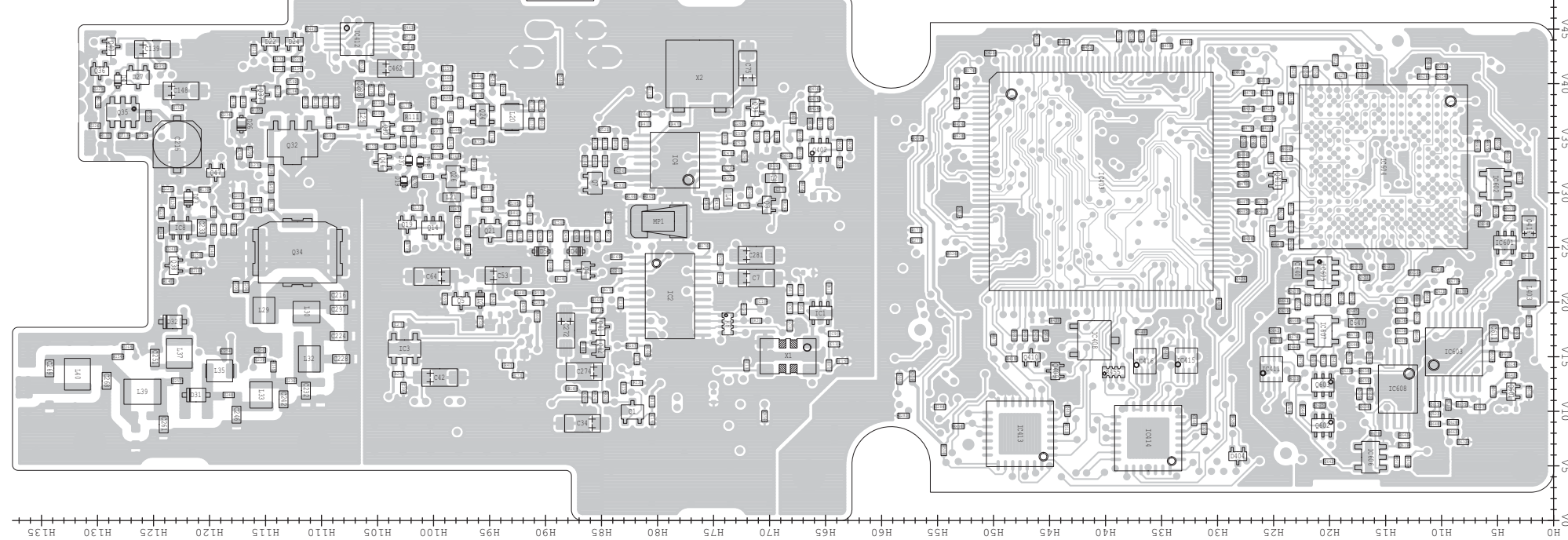
• SW UNIT (BOTTOM VIEW)



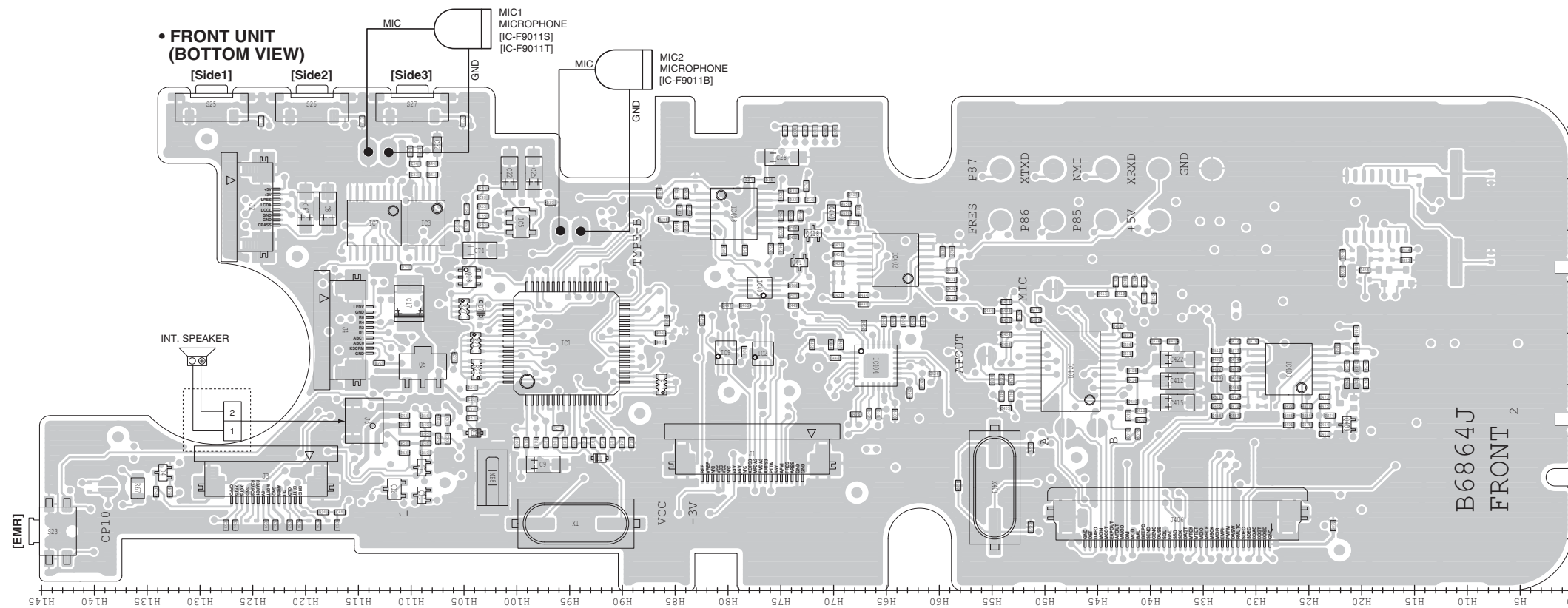
• VR UNIT (BOTTOM VIEW)



• MAIN UNIT (BOTTOM VIEW)

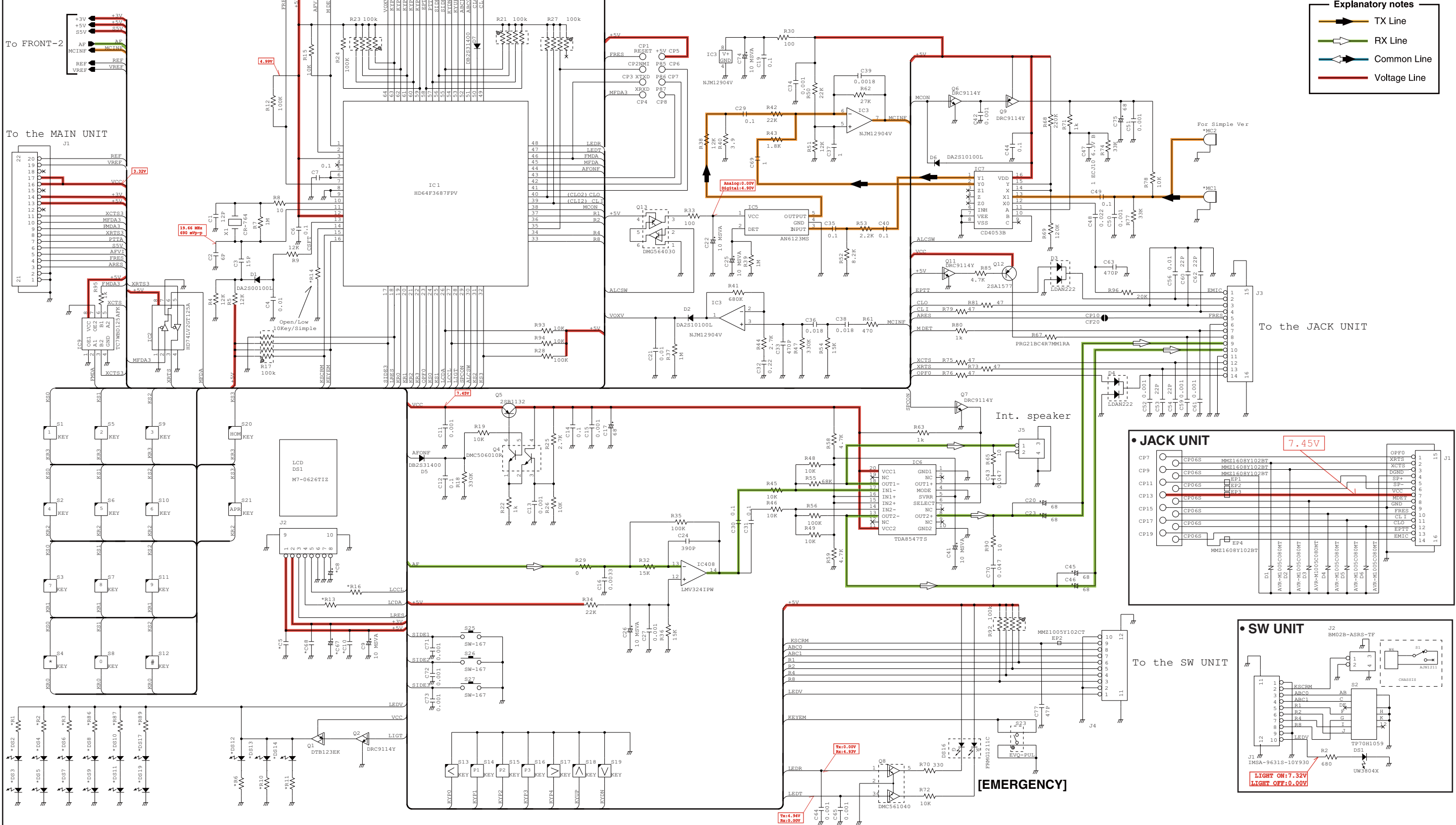


• FRONT UNIT (BOTTOM VIEW)



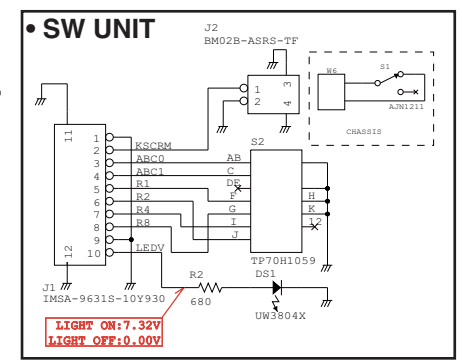
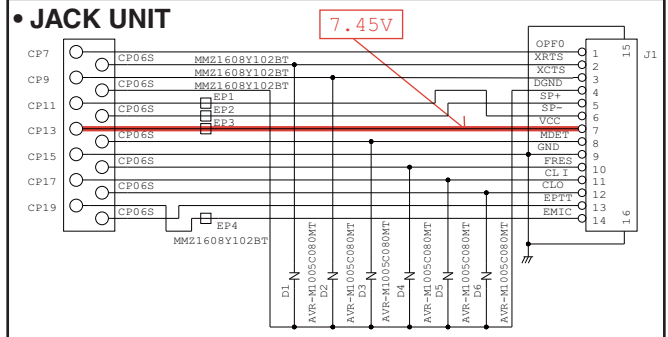
# VOLTAGE DIAGRAM

## • FRONT UNIT (1/2)



**Explanatory notes**

- TX Line (Yellow arrow)
- RX Line (Green arrow)
- Common Line (Blue arrow)
- Voltage Line (Red arrow)

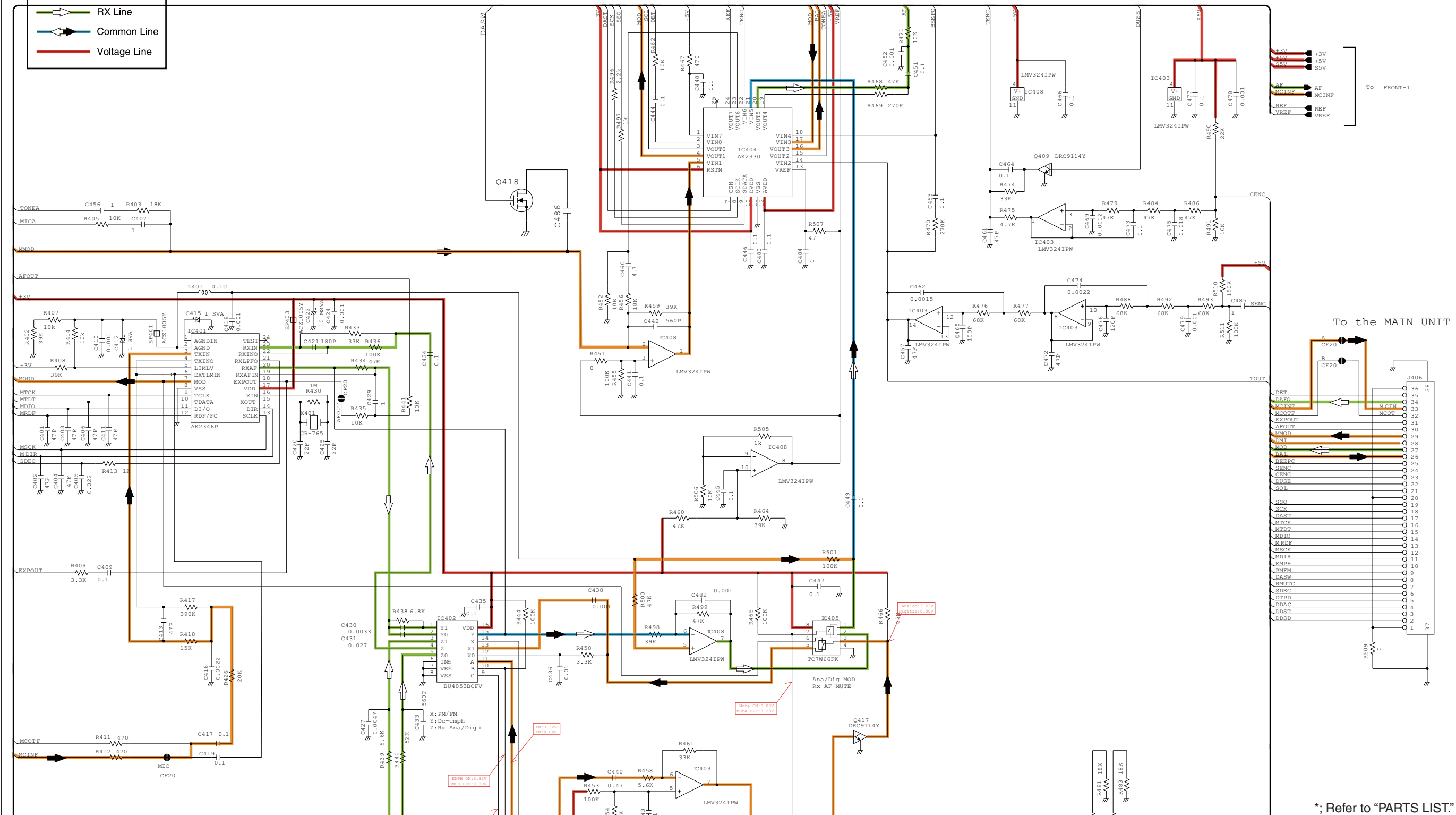


\*; Refer to "PARTS LIST."

• FRONT UNIT (2/2)

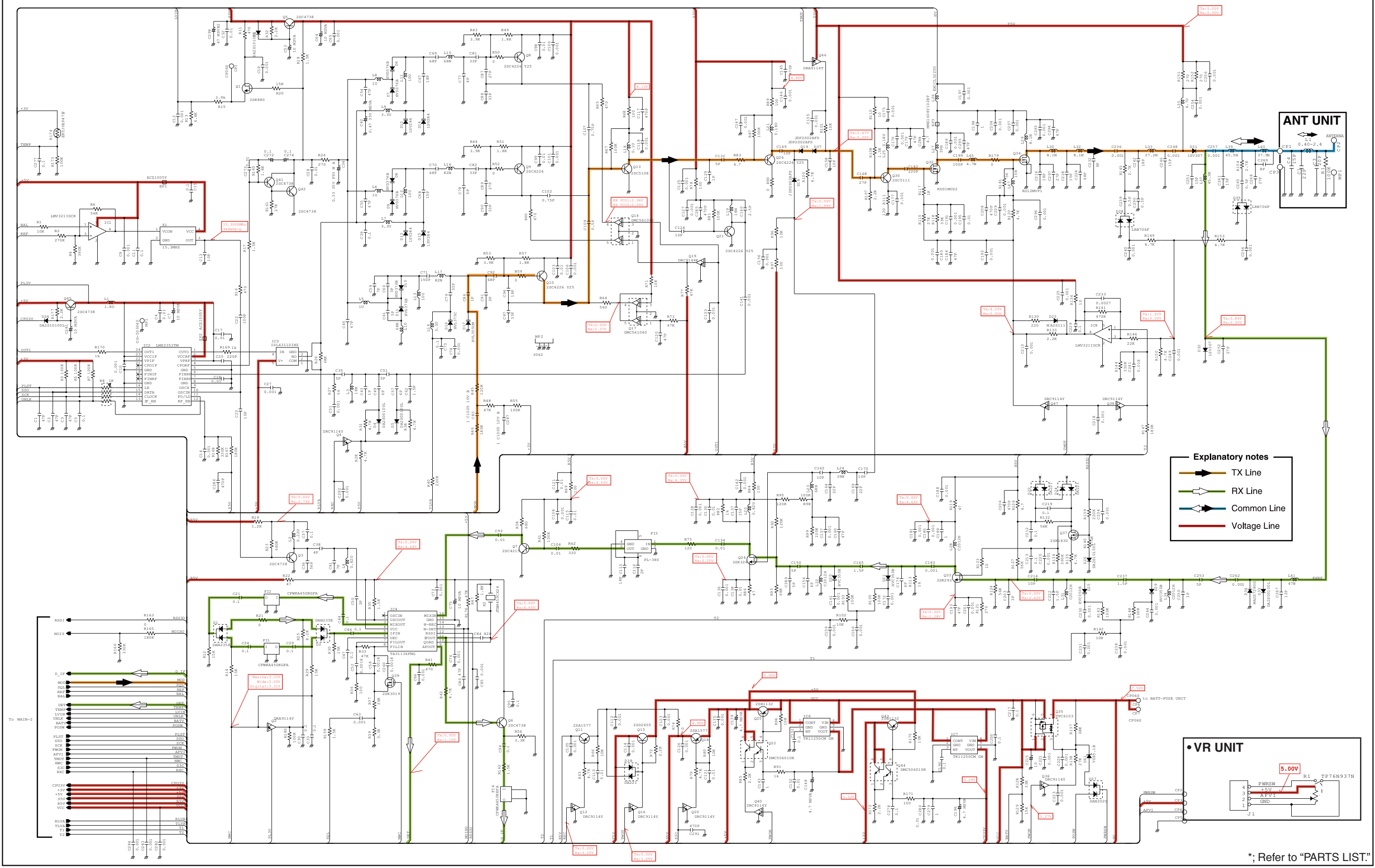
**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line



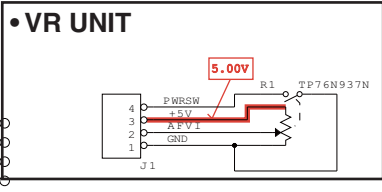
\*; Refer to "PARTS LIST."

• MAIN UNIT (1/3)



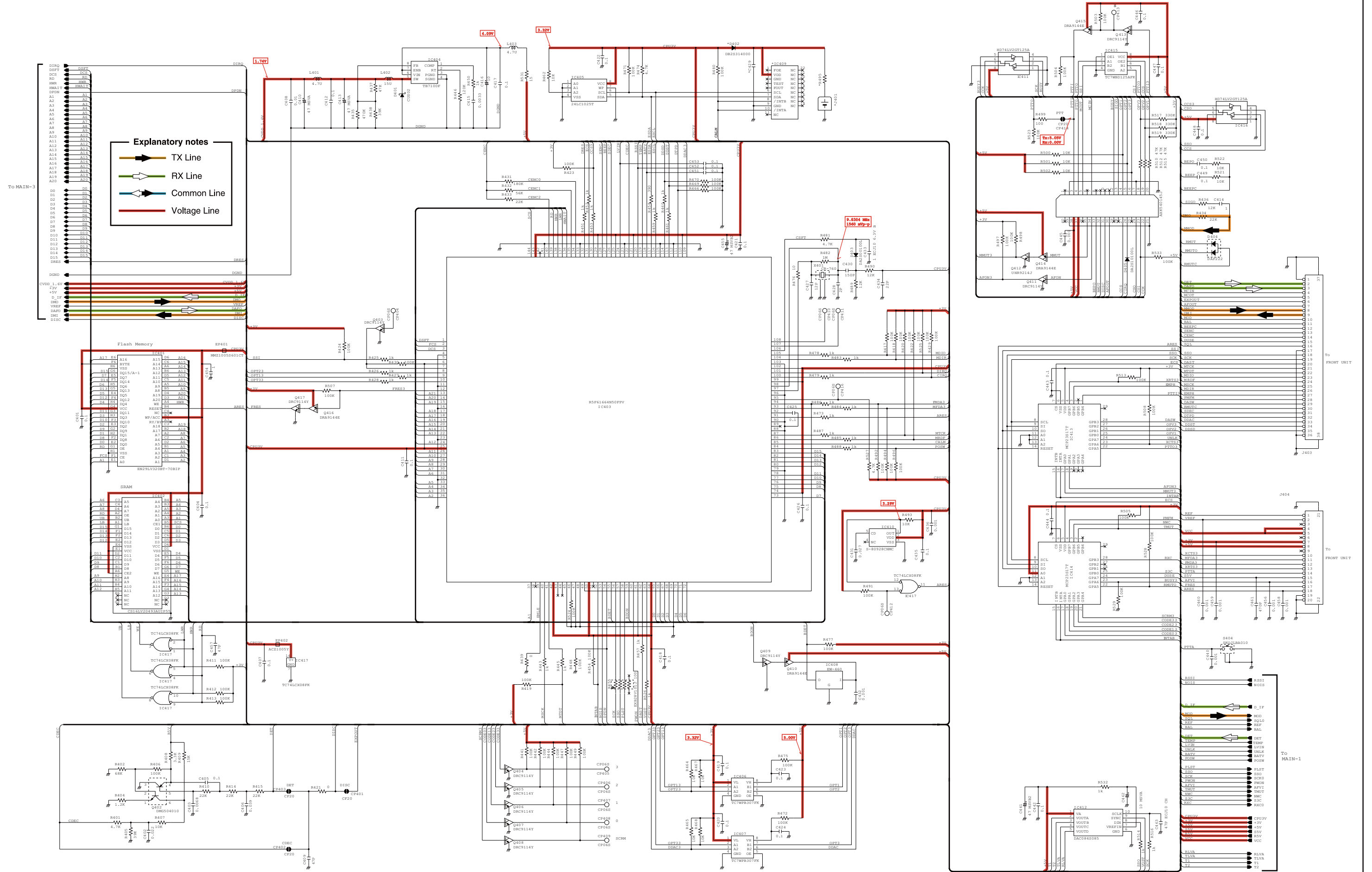
**Explanatory notes**

- ▶ TX Line
- ▶ RX Line
- ▶ Common Line
- ▶ Voltage Line



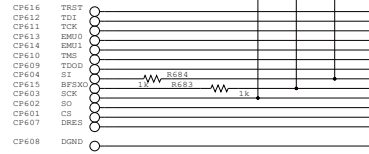
\*; Refer to "PARTS LIST."

• MAIN UNIT (2/3)

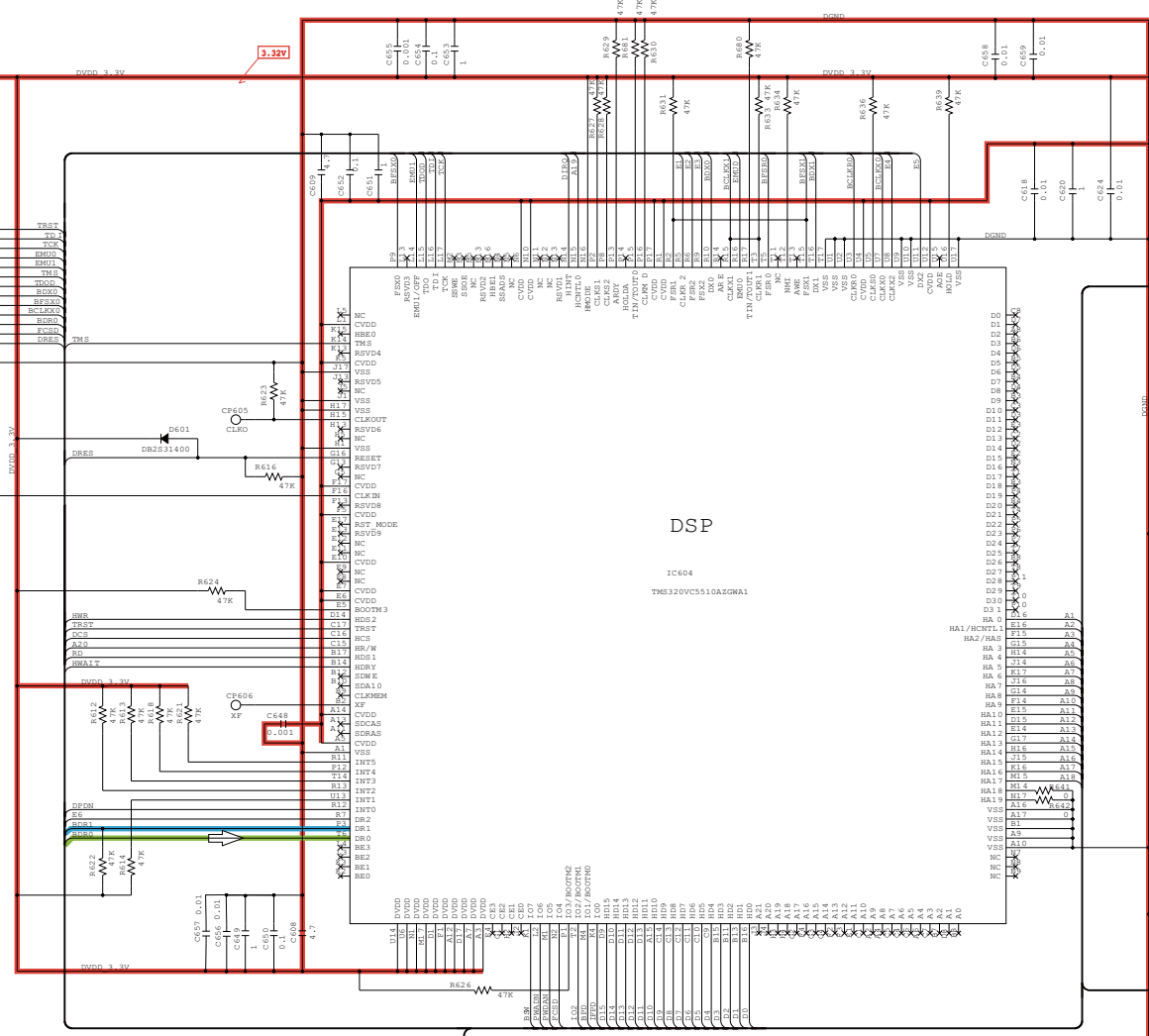


• MAIN UNIT (3/3)

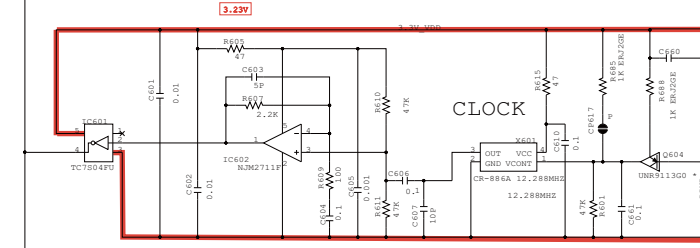
DSP FLASH



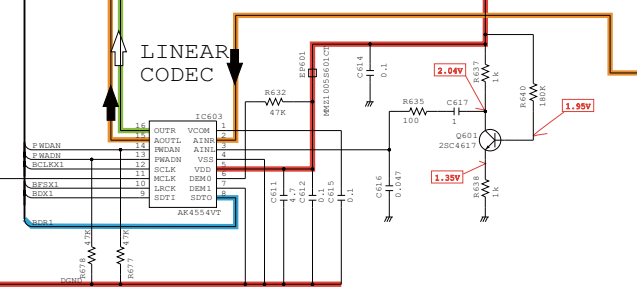
TRST: CHIP SELECT of the DSP for the Flash memory.  
TDO: IEEE Standard 1149.1 test data output.



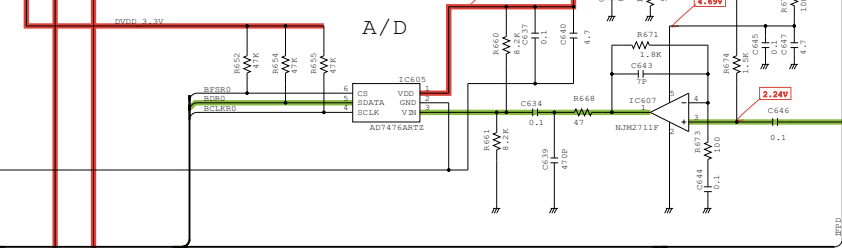
DSP  
IC604  
TM6320VC551GAZDWA1



CLOCK



LINEAR CODEC



A/D

**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line

\*; Refer to "PARTS LIST."

Apr. 2010



# SERVICE MANUAL ADDENDUM

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## IC-F9011B IC-F9011T IC-F9011S

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### CONTENTS

PARTS LIST .....	1
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[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C401	4030016930	S.CER C1005 JB 1A 104K-T	T	46.3/29.1
C402	4030016970	S.CER C1005 JB 1E 223K-T	B	68.5/33.4
C403	4030017790	S.CER C1005 JB 1H 682K-T	B	66.4/36.3
C404	4030016930	S.CER C1005 JB 1A 104K-T	T	46.3/23.2
C405	4030016930	S.CER C1005 JB 1A 104K-T	B	64.5/36.3
C406	4030016940	S.CER C1005 JB 1A 393K-T	B	66/39.5
C407	4030016930	S.CER C1005 JB 1A 104K-T	T	31.1/18.4
C408	4030016790	S.CER C1005 JB 1E 103K-T	B	6.8/28.4
C409	4030017420	S.CER C1005 CH 1H 470J-T	T	39.3/43.7
C410	4550006970	S.TAN TEESVA0G476M8R	T	4.1/33.9
C411	4030016930	S.CER C1005 JB 1A 104K-T	B	53/28.2
C412	4030016930	S.CER C1005 JB 1A 104K-T	T	5.7/28.1
C413	4550006970	S.TAN TEESVA0G476M8R	T	1.8/33.9
C414	4030018860	S.CER C1005 JB 0J 105K-T	T	30.5/35.1
C415	4030017770	S.CER C1005 JB 1H 332K-T	T	2.3/18.4
C416	4550007030	S.TAN TEESVP 0J 106M8R	B	2.2/26.9
C417	4030016930	S.CER C1005 JB 1A 104K-T	B	2.3/24.2
C418	4030016930	S.CER C1005 JB 1A 104K-T	T	32/18.4
C419	4030016930	S.CER C1005 JB 1A 104K-T	T	36.1/33.3
C420	4030016930	S.CER C1005 JB 1A 104K-T	T	37.9/30.8
C421	4030016930	S.CER C1005 JB 1A 104K-T	B	50.3/42.8
C422	4030016930	S.CER C1005 JB 1A 104K-T	T	51.9/11.3
C423	4030016930	S.CER C1005 JB 1A 104K-T	T	33.7/34.3
C424	4030016930	S.CER C1005 JB 1A 104K-T	T	35.3/29.3
C425	4030016930	S.CER C1005 JB 1A 104K-T	B	27.7/31.7
C426	4030016930	S.CER C1005 JB 1A 104K-T	B	27.9/22.1
C427	4030017630	S.CER C1005 CH 1H 120J-T	T	14.2/41.7
C428	4030017350	S.CER C1005 CH 1H 020B-T	T	16.7/37.6
C429	4030016930	S.CER C1005 JB 1A 104K-T	[F9011S] [F9011T] T	52.1/10.4
C430	4030017700	S.CER C1005 CH 1H 151J-T	T	17.6/38.3
C431	4030017030	S.CER C1005 JB 1A 273K-T	T	32.1/23.3
C432	4030017460	S.CER C1005 JB 1H 102K-T	B	46.2/16.9
C433	4030018860	S.CER C1005 JB 0J 105K-T	T	20.4/40.7
C434	4030017400	S.CER C1005 CH 1H 220J-T	T	16.5/41.9
C435	4030016930	S.CER C1005 JB 1A 104K-T	B	29.9/19.8
C436	4030017460	S.CER C1005 JB 1H 102K-T	B	27.7/34.7
C440	4030017460	S.CER C1005 JB 1H 102K-T	B	88.7/40.4
C441	4550006780	S.TAN TEESVB2 0J 476M8R	T	2.7/12.6
C442	4030016930	S.CER C1005 JB 1A 104K-T	B	110.9/45
C443	4030016930	S.CER C1005 JB 1A 104K-T	B	43.4/10
C444	4030016930	S.CER C1005 JB 1A 104K-T	B	32.1/9.2
C445	4030017460	S.CER C1005 JB 1H 102K-T	T	20.1/38.5
C446	4030016930	S.CER C1005 JB 1A 104K-T	T	26.5/16.3
C447	4030016930	S.CER C1005 JB 1A 104K-T	B	34.6/15.3
C448	4030016930	S.CER C1005 JB 1A 104K-T	B	36.8/17.2
C449	4030016930	S.CER C1005 JB 1A 104K-T	T	37.4/38.1
C450	4030016930	S.CER C1005 JB 1A 104K-T	T	35.3/39.8
C451	4030016930	S.CER C1005 JB 1A 104K-T	B	36.8/44.3
C452	4030016930	S.CER C1005 JB 1A 104K-T	B	37.7/44.3
C453	4030016930	S.CER C1005 JB 1A 104K-T	B	38.8/44.3
C454	4030018860	S.CER C1005 JB 0J 105K-T	T	42.1/22.7
C455	4550006780	S.TAN TEESVB2 0J 476M8R	T	45.9/18.4
C456	4030017460	S.CER C1005 JB 1H 102K-T	T	71.7/5.3
C457	4030017420	S.CER C1005 CH 1H 470J-T	B	46.1/44
C458	4030017460	S.CER C1005 JB 1H 102K-T	B	70.4/9.5
C459	4030017460	S.CER C1005 JB 1H 102K-T	B	57.2/13.2
C460	4030017460	S.CER C1005 JB 1H 102K-T	B	58.4/13
C461	4030017730	S.CER C1005 JB 1H 471K-T	T	72.6/5.3
C462	4550006250	S.TAN TEESVA 1A 106M8R	B	103.4/41.4
C463	4030017420	S.CER C1005 CH 1H 470J-T	B	102.2/45.1
C601	4030016790	S.CER C1005 JB 1E 103K-T	B	4.2/23.6
C602	4030016790	S.CER C1005 JB 1E 103K-T	T	6.3/36.1
C603	4030017380	S.CER C1005 CH 1H 050B-T	B	3.9/27.7
C604	4030016930	S.CER C1005 JB 1A 104K-T	B	6.2/27.1
C605	4030017460	S.CER C1005 JB 1H 102K-T	B	5/34.5
C606	4030016930	S.CER C1005 JB 1A 104K-T	T	6.3/33.6
C607	4030017620	S.CER C1005 CH 1H 100C-T	T	6.3/34.5
C608	4030018910	S.CER C1608 JB 0J 475K-T	T	9.9/32
C609	4030018910	S.CER C1608 JB 0J 475K-T	T	8.6/32.9
C610	4030016930	S.CER C1005 JB 1A 104K-T	T	10.3/37
C611	4030018910	S.CER C1608 JB 0J 475K-T	B	5.3/17.1
C612	4030016930	S.CER C1005 JB 1A 104K-T	B	4.3/17.1
C614	4030016930	S.CER C1005 JB 1A 104K-T	B	3.8/14.3
C615	4030016930	S.CER C1005 JB 1A 104K-T	B	10.6/10.6
C616	4030016950	S.CER C1005 JB 1A 473K-T	B	9.4/10.6
C617	4030018860	S.CER C1005 JB 0J 105K-T	B	6.6/10.4
C618	4030016790	S.CER C1005 JB 1E 103K-T	T	5.7/31.5
C619	4030016930	S.CER C1005 JB 1A 104K-T	B	13.3/6.9
C620	4030018860	S.CER C1005 JB 0J 105K-T	T	5.7/30.5
C621	4030018860	S.CER C1005 JB 0J 105K-T	B	10.1/20.9
C623	4030016950	S.CER C1005 JB 1A 473K-T	B	10.6/9.7
C624	4030016790	S.CER C1005 JB 1E 103K-T	T	22/16.5
C625	4030017460	S.CER C1005 JB 1H 102K-T	B	20.9/10.5
C626	4030017460	S.CER C1005 JB 1H 102K-T	B	13.6/20.1
C627	4030018860	S.CER C1005 JB 0J 105K-T	B	12.2/18.5
C628	4030018860	S.CER C1005 JB 0J 105K-T	B	9.9
C629	4030016790	S.CER C1005 JB 1E 103K-T	B	16.4/16.7
C630	4030017420	S.CER C1005 CH 1H 470J-T	B	13.6/19.2
C631	4030016930	S.CER C1005 JB 1A 104K-T	B	18.2/14.9
C632	4030017420	S.CER C1005 CH 1H 470J-T	B	8.1/7.2
C633	4030017450	S.CER C1005 JB 1H 271K-T	B	18.5/13.7
C634	4030016930	S.CER C1005 JB 1A 104K-T	B	22.8/19.8
C635	4030017730	S.CER C1005 JB 1H 471K-T	B	17.3/11.6
C636	4030017460	S.CER C1005 JB 1H 102K-T	T	22.3/24.1
C637	4030016930	S.CER C1005 JB 1A 104K-T	B	23.1/21
C638	4030017680	S.CER C1005 CH 1H 820J-T	B	16.8/10.4
C639	4030017730	S.CER C1005 JB 1H 471K-T	B	24/19.2
C640	4030018910	S.CER C1608 JB 0J 475K-T	B	22.9/22.9
C641	4030016930	S.CER C1005 JB 1A 104K-T	B	24.9/17.4
C642	4030016930	S.CER C1005 JB 1A 104K-T	B	20/5.4
C643	4030017590	S.CER C1005 CH 1H 070C-T	B	19.6/14.6
C644	4030016930	S.CER C1005 JB 1A 104K-T	B	17.9/16.1
C645	4030016930	S.CER C1005 JB 1A 104K-T	B	17.9/19.1
C646	4030016930	S.CER C1005 JB 1A 104K-T	B	23.2/15.9

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C647	4030018910	S.CER C1608 JB 0J 475K-T	B	17.5/18.1
C648	4030017460	S.CER C1005 JB 1H 102K-T	B	10.3/23
C649	4030018860	S.CER C1005 JB 0J 105K-T	B	17.1/41.6
C650	4030016930	S.CER C1005 JB 1A 104K-T	B	17.1/40.7
C651	4030018860	S.CER C1005 JB 0J 105K-T	B	16.9/22.2
C652	4030016930	S.CER C1005 JB 1A 104K-T	B	21.2/41.1
C653	4030018860	S.CER C1005 JB 0J 105K-T	B	11.2/41.8
C654	4030016930	S.CER C1005 JB 1A 104K-T	B	10/40.6
C655	4030017460	S.CER C1005 JB 1H 102K-T	B	10/41.5
C656	4030016790	S.CER C1005 JB 1E 103K-T	B	22.1/41.1
C657	4030016790	S.CER C1005 JB 1E 103K-T	B	25.1/26.5
C658	4030016790	S.CER C1005 JB 0J 105K-T	T	7.9/31
C659	4030016790	S.CER C1005 JB 1E 103K-T	T	11.4/25.1
C660	4030016930	S.CER C1005 JB 1A 104K-T	T	11.5/42.1
C661	4030016930	S.CER C1005 JB 1A 104K-T	T	7.2/40.7
J401	2610000500	S.CON PB-614SS13-TF	[F9011S]	T 60.2/12.9
	2610000500	S.CON PB-614SS13-TF	[F9011T]	
J402	6510026770	S.CON AXK540147YG		T 25.1/34
J403	651002221	S.CON 36FLZ-SM2-R-TB(LF)(SN)		T 34.7/9.2
J404	6510025240	S.CON IMSA-9631S-20Y912		T 74.9/10.2
J601	6510026220	S.CON AXK5F14547YG		T 12/6.8
S404	2260003120	SWI SKQJLBA010		
BT1	3020000340	LIT ML-614S/ZTK	[F9011S]	T
	3020000340	LIT ML-614S/ZTK	[F9011T]	T
EP1	6910015370	S.BEA ACZ1005Y-102-T		B 64.7/14.2
EP2	6910015370	S.BEA ACZ1005Y-102-T		T 78.1/26.3
EP3	6910012350	S.BEA MMZ1608Y 102BT		T 117.6/30.9
EP401	6910016330	S.BEA MMZ1005S 601CT-S		T 46.3/21.9
EP402	6910015370	S.BEA ACZ1005Y-102-T		T 30/23.1
EP601	6910016330	S.BEA MMZ1005S 601CT-S		B 4.3/15.2
EP602	6910016330	S.BEA MMZ1005S 601CT-S		T 6.1/38.5
EP603	6910016330	S.BEA MMZ1005S 601CT-S		T 23.2/16.2
EP604	6910016330	S.BEA MMZ1005S 601CT-S		T 11.1/11.1
EP605	6910016330	S.BEA MMZ1005S 601CT-S		B 3.3/17.1
EP606	6910016330	S.BEA MMZ1005S 601CT-S		B 21/20.2
MP1	6910014760	S.PLA OG-503040		B 79.9/27.4
MP2	8510018910	S.CAS 3062 VCO CASE Y1092		T 95.9/19.1

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

[FUSE UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200006190	S.COI BLM21PG300SN1D (BLM21P300S)	T	8.5/10.2
C1	4030016930	S.CER C1005 JB 1A 104K-T	T	4.5/9.3
C2	4030017460	S.CER C1005 JB 1H 102K-T	T	5.4/9.3
C3	4030017420	S.CER C1005 CH 1H 470J-T	T	6.3/9.3
C4	4030017420	S.CER C1005 CH 1H 470J-T	T	8.8/8.7
C5	4030017460	S.CER C1005 JB 1H 102K-T	T	8.8/7.8
C6	4030016930	S.CER C1005 JB 1A 104K-T	T	11.1/9.8
J1	6910016860	CON IMSA-9230B-1-02Z150-PT1		
F1	5210000970	S.FUS ERBSE3R00U	T	11/8.1

[ANT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200013450	S.COI 0.40-2.4-5TL 43.3N <COMO>	T	3.3/10.2
R1	7030003680	S.RES ERJ3GEYJ 104 V (100K)	T	2.6/6
C1	4030007050	S.CER C1608 CH 1H 220J-T	T	2.6/14.1
C3	4030009990	S.CER C1608 CH 1H 200J-T	T	2.6/7.6
C4	4030007030	S.CER C1608 CH 1H 150J-T	T	2.6/12.8

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

[VR UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R1	7210003300	VAR TP76N937N-21.5F-10KA-3062		
J1	6910017680	CON IMSA-9230B-1-04Z140-PT1		

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140010771	S.IC HD64F3687FPV(EMPTY)	B	95.3/24
IC2	1130013050	S.IC HD74LV2GT125AUSE-E	B	76.7/23
IC3	1110005330	S.IC NJM12904V-TE1-#ZZZB	B	108.5/35.7
IC5	1110005310	S.IC AN6123MS	B	99.6/35.7
IC6	1110006770	S.IC TDA8547TS/N	T	113.7/13.1
IC7	1140013200	S.IC CD4053BPWR	B	113.5/35.7
IC9	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	80.2/23.1
IC401	1110006221	S.IC AK2346P-E2/P	B	47.5/21.3
IC402	1130008230	S.IC BU4053BCFV-E2	B	64.1/32.1
IC403	1110006470	S.IC LMV324IPWR	B	26.9/21.5
IC404	1110007290	S.IC AK2330P-L	B	66/21.8
IC405	1130011741	S.IC TC7W66FK(TE85L,F)	B	77/29.4
IC408	1110006470	S.IC LMV324IPWR	B	79.4/36.6
Q1	1590000980	S.TRA DTB123EK T146	T	116.1/31.1
Q2	1590003451	S.TRA UNR9214G0L	T	117.1/27.9
Q4	1590001190	S.TRA XP6501-(TX).AB	T	113.3/20.6
Q5	1520000460	S.TRA 2SB1132 T100 R	B	108.9/21.7
Q6	1590003451	S.TRA UNR9214G0L	T	118.8/36.1
Q7	1590003451	S.TRA UNR9214G0L	T	109/11.9
Q8	1590001400	S.TRA XP1214(TX)	T	138/13.4
Q9	1590003241	S.TRA UNR9114G0L	T	114.9/34.6
Q11	1590003451	S.TRA UNR9214G0L	B	109/9.2
Q12	1510000920	S.TRA 2SA1577 T106 Q	B	111.6/9.8
Q13	1590003550	S.TRA XP4313(TX)	B	104.5/30.4
Q409	1590003451	S.TRA UNR9214G0L	B	21.4/16.1
Q417	1590003451	S.TRA UNR9214G0L	B	73.2/31.8
D1	1790001261	S.DIO MA2S077G0L	B	92.1/12.8
D2	1790001251	S.DIO MA2S1110GL	B	104/15.3
D3	1750000520	S.DIO DAN222TL	T	116.7/7.8
D4	1750000520	S.DIO DAN222TL	B	133.5/11.4
D5	1790001241	S.DIO MA2S7280GL	T	110.1/22.9
D6	1790001251	S.DIO MA2S1110GL	T	118.7/37.7
X1	6050011720	S.XTA CR-764 SMD-49TB 19.6608 MHz <KDS>	B	94.4/6.5
X401	6050011730	S.XTA CR-765 SMD-49TA 3.6864 MHz <KDS>	B	54.7/10
L401	6200011031	S.COI ELJRF R10JFB	B	50.8/26.2
R1	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	74.6/44.6
R2	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]	B	72.7/44.6
R3	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]	B	71.7/44.6
R4	7030008010	S.RES ERJ2GEJ 123 X (12K) [F9011T] only	B	96.3/14.3
R5	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	97.2/14.3
R6	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/36.5
R7	7030005160	S.RES ERJ2GEJ 471 X (470) [F9011T]	B	92.7/14.3
R8	7030005530	S.RES ERJ2GEJ 105 X (1M)	B	94.5/14.3
R9	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	90.9/14.3
R10	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/24
R11	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/13.5
R12	7030005090	S.RES ERJ2GEJ 104 X (100K) [F9011T]	B	98.1/14.3
R13	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/37.5
R14	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011T]	B	89.1/14.3
R15	7030010040	S.RES ERJ2GEJ-JPW [F9011B]	B	89.1/14.3
R16	7030005050	S.RES ERJ2GEJ 103 X (10K) [F9011S]	B	99.1/14.3
R17	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011T]	T	124.2/36.6
R18	7410001140	S.ARR EXB28V104JX	B	86.3/20
R19	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	110.7/19.4
R20	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	110.7/21.2
R21	7410001140	S.ARR EXB28V104JX	B	103.9/24
R22	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	115.7/20.2
R23	7410001140	S.ARR EXB28V104JX	B	103.8/21.4
R24	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	104.2/19.7
R25	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	115.7/22.9
R26	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	115.7/22
R27	7410001140	S.ARR EXB28V104JX	B	104.1/27.9
R28	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	85.8/26.2
R29	7030010040	S.RES ERJ2GEJ-JPW	B	72.6/39.3
R30	7030004980	S.RES ERJ2GEJ 101 X (100)	B	110.5/31.4
R32	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	73.8/37.9
R33	7030004980	S.RES ERJ2GEJ 101 X (100)	B	103.2/39.1
R34	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	78.4/33
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	73.8/38.8
R36	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	76/39.9
R37	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	104.2/16.7
R38	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	110.2/28.4
R39	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	96.8/37.7
R40	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	110.6/26.2
R41	7030007060	S.RES ERJ2GEJ 684X (680K)	B	108/40.4
R42	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.1/28.4
R43	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	111.5/30.2
R44	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	B	108/41.4
R45	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.4/14.7
R46	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.4/16.5
R47	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	110.1/42.6
R48	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	108.6/14.3
R49	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	108.6/16.1
R50	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.8/31.5
R51	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	109.4/32.9

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



[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C427	4030017780	S.CER C1005 JB 1H 472K-T	B	58.8/32.9
C429	4030018860	S.CER C1005 JB 0J 105K-T	B	54.1/20.5
C430	4030017770	S.CER C1005 JB 1H 332K-T	B	58.8/29.3
C431	4030017030	S.CER C1005 JB 1A 273K-T	B	58.8/30.2
C433	4030018820	S.CER C1005 JB 1H 561K-T	B	59.7/32.9
C434	4030016930	S.CER C1005 JB 1A 104K-T	B	55.3/27.1
C435	4030016930	S.CER C1005 JB 1A 104K-T	B	69.5/28.7
C436	4030016790	S.CER C1005 JB 1E 103K-T	B	69.5/33.5
C438	4030017460	S.CER C1005 JB 1H 102K-T	B	69.5/31.7
C440	4030018900	S.CER C1005 JB 0J 474K-T	B	20.5/25.2
C441	4030016930	S.CER C1005 JB 1A 104K-T	B	84.6/36.9
C442	4030018820	S.CER C1005 JB 1H 561K-T	B	84.9/38.5
C443	4030016930	S.CER C1005 JB 1A 104K-T	B	20.5/21.8
C444	4030016930	S.CER C1005 JB 1A 104K-T	B	69.8/22.6
C445	4030016930	S.CER C1005 JB 1A 104K-T	B	75/36.4
C446	4030016930	S.CER C1005 JB 1A 104K-T	B	65.7/17.1
C447	4030016930	S.CER C1005 JB 1A 104K-T	B	80/27.6
C448	4030016930	S.CER C1005 JB 1A 104K-T	B	70.2/23.9
C449	4030016930	S.CER C1005 JB 1A 104K-T	B	73.8/27.6
C451	4030016930	S.CER C1005 JB 1A 104K-T	B	63.4/26.1
C452	4030017460	S.CER C1005 JB 1H 102K-T	B	62.5/26.1
C453	4030016930	S.CER C1005 JB 1A 104K-T	B	33.7/17
C456	4030018860	S.CER C1005 JB 0J 105K-T	B	61.6/20
C457	4030017420	S.CER C1005 CH 1H 470J-T	B	32/17
C460	4030018910	S.CER C1608 JB 0J 475K-T	B	70.2/36.7
C461	4030017420	S.CER C1005 CH 1H 470J-T	B	23.5/15.2
C462	4030017910	S.CER C1005 JB 1H 152K-T	B	32/18.8
C464	4030016930	S.CER C1005 JB 1A 104K-T	B	23.5/16.1
C465	4030017430	S.CER C1005 CH 1H 101J-T	B	32/19.7
C466	4030016930	S.CER C1005 JB 1A 104K-T	B	19.7/31.1
C469	4030017750	S.CER C1005 JB 1H 122K-T	B	21.4/20.1
C472	4030017420	S.CER C1005 CH 1H 470J-T	B	32/24.2
C473	4030016930	S.CER C1005 JB 1A 104K-T	B	23.5/18.8
C474	4030017760	S.CER C1005 JB 1H 222K-T	B	32/22.4
C475	4030016960	S.CER C1005 JB 1E 183K-T	B	25.2/16.1
C476	4030017690	S.CER C1005 CH 1H 121J-T	B	30.3/24.2
C477	4030016930	S.CER C1005 JB 1A 104K-T	B	20.5/20.1
C478	4030017460	S.CER C1005 JB 1H 102K-T	B	19.6/20.1
C479	4030017460	S.CER C1005 JB 1H 102K-T	B	33.7/20.6
C480	4030016930	S.CER C1005 JB 1A 104K-T	B	64.2/17.1
C482	4030017460	S.CER C1005 JB 1H 102K-T	B	84/35.3
C484	4030018860	S.CER C1005 JB 0J 105K-T	B	62.8/19.2
C485	4030018860	S.CER C1005 JB 0J 105K-T	B	33.7/17.9
J1	6510025240	S.CON IMSA-9631S-20Y912	B	77.7/13.4
J2	6510025250	S.CON IMSA-9631S-08Y912 [F9011S]	B	125.2/37.2
	6510025250	S.CON IMSA-9631S-08Y912 [F9011T]		
J3	6510026310	S.CON IMSA-9631S-14Y920	B	123.7/11.2
J4	6510025260	S.CON IMSA-9631S-10Y912	B	116.4/25.3
J5	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	114.4/16.5
J406	6510022221	S.CON 36FLZ-SM2-R-TB(LF)(SN)	B	37.4/7.1
DS1	5030003140	LCD M7-0626TIZ [F9011S]		
	5030003140	LCD M7-0626TIZ [F9011T]		
DS2	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/31.2
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS3	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/16.7
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS4	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/31.2
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS5	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/16.7
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS6	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/31.2
DS7	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/16.7
DS8	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/31.2
DS9	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/16.7
DS10	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/31.2
DS11	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/16.7
DS12	5040002961	S.LED SML-A12MT T86J [F9011S]	T	107.3/34.5
	5040002961	S.LED SML-A12MT T86J [F9011T]		
DS13	5040002961	S.LED SML-A12MT T86J [F9011S]	T	107.3/24
	5040002961	S.LED SML-A12MT T86J [F9011T]		
DS14	5040002961	S.LED SML-A12MT T86J [F9011S]	T	107.3/13.5
	5040002961	S.LED SML-A12MT T86J [F9011T]		
DS16	5040003141	S.LED FRMG1211C-TR	T	143.5/11.1
DS17	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/32.6
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS19	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/15.4
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
MC1	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011S]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011T]		

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
MC2	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011B] only		
S23	2230001060	S.SWI EVQ-PUL 02K	B	143.4/5.7
S25	2260002800	S.SWI SW-167 (SKQTLAE010)	B	128.9/46.9
S26	2260002800	S.SWI SW-167 (SKQTLAE010)	B	119.4/46.9
S27	2260002800	S.SWI SW-167 (SKQTLAE010)	B	109.9/46.9
EP2	6910018460	S.BEA MMZ1005Y102C-T	B	113/22.1
EP401	6910015600	S.BEA ACZ1005Y-241 (240)	B	41.7/18.3
EP403	6910015370	S.BEA ACZ1005Y-102-T	B	37.9/24.2

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

[JACK UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	9/35.4
D2	1790001810	S.VAR AVR-M1005C080MTABB	B	7.4/35.4
D3	1790001810	S.VAR AVR-M1005C080MTABB	B	10.3/33.6
D4	1790001810	S.VAR AVR-M1005C080MTABB	B	8.8/33.6
D5	1790001810	S.VAR AVR-M1005C080MTABB	B	7.9/33.6
D6	1790001810	S.VAR AVR-M1005C080MTABB	B	7/33.6
J1	6510026310	S.CON IMSA-9631S-14Y920	T	8.4/31.7
EP1	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/33.5
EP2	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/34.8
EP3	6910012350	S.BEA MMZ1608Y 102BT	B	5/36
EP4	6910012350	S.BEA MMZ1608Y 102BT	T	1.9/23.5

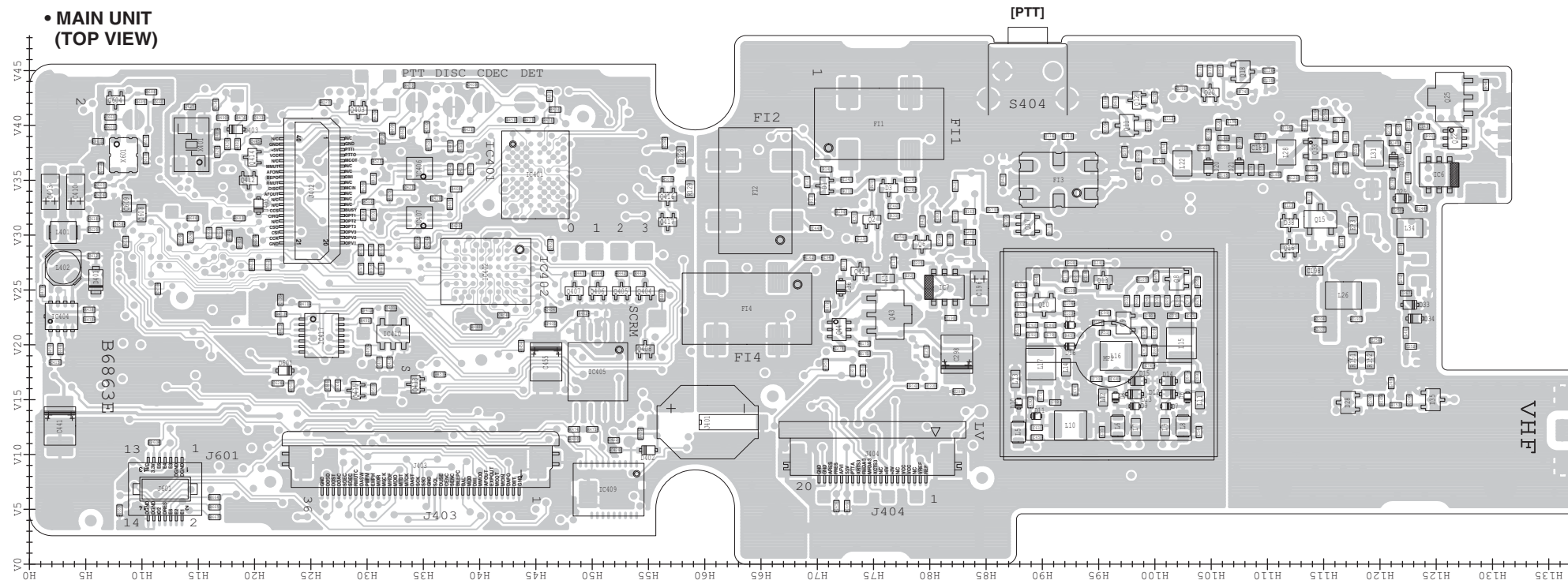
[SW UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R2	7030005010	S.RES ERJ2GEJ 681 X (680)	T	4/9.9
J1	6510025260	S.CON IMSA-9631S-10Y912	B	6.5/3.3
J2	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	2.5/8.9
DS1	5040003170	LED UW3804X		
S2	2250000611	ENC TP70H1059-24.5F-3062A		

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

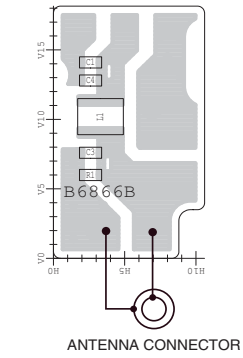
# BOARD LAYOUTS

• MAIN UNIT  
(TOP VIEW)

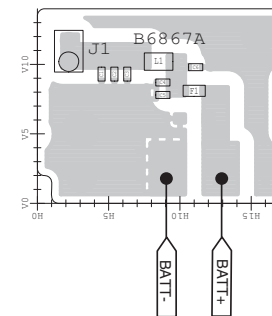


• ANT UNIT  
(TOP VIEW)

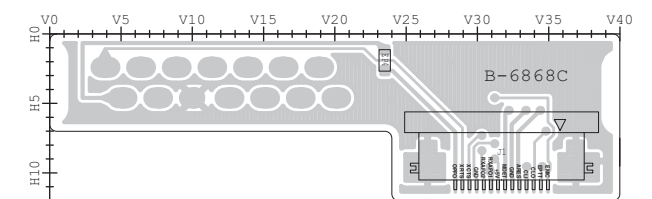
The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.



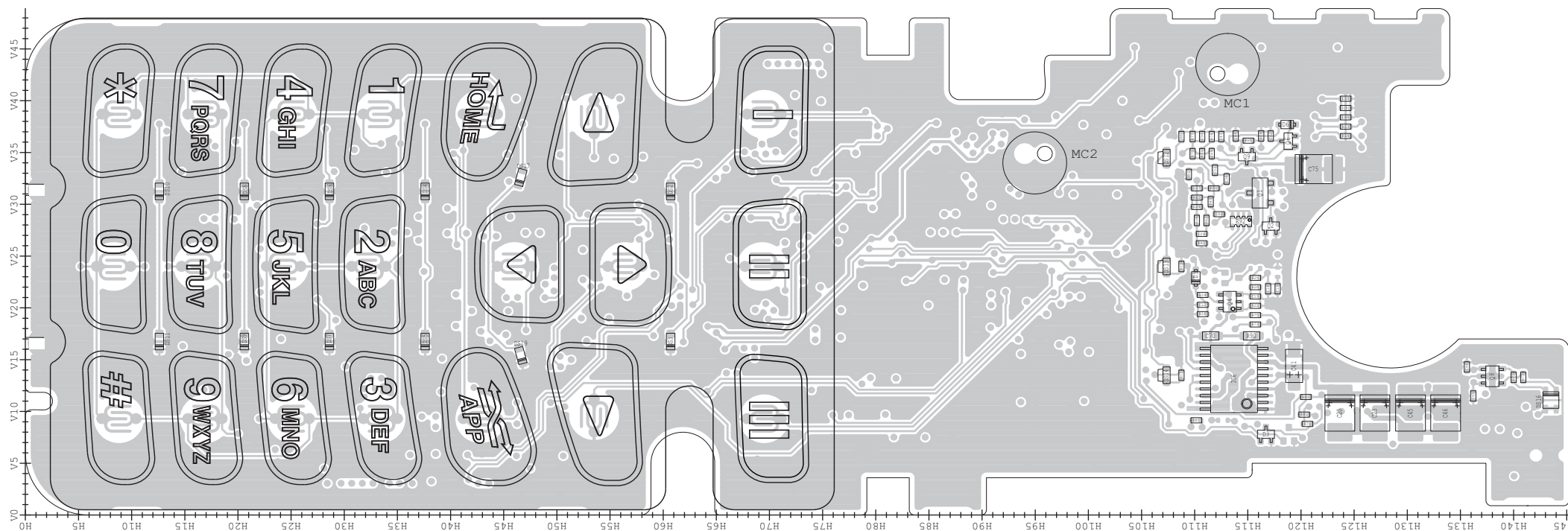
• FUSE UNIT  
(TOP VIEW)



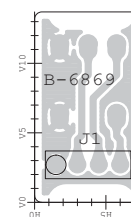
• JACK UNIT  
(TOP VIEW)



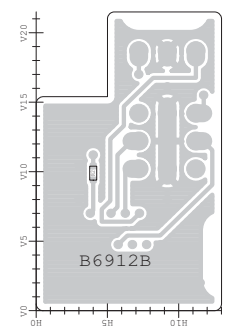
• FRONT UNIT  
(TOP VIEW)



• VR UNIT  
(TOP VIEW)

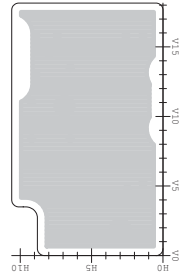


• SW UNIT  
(TOP VIEW)

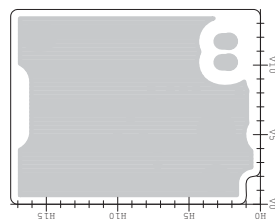


The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

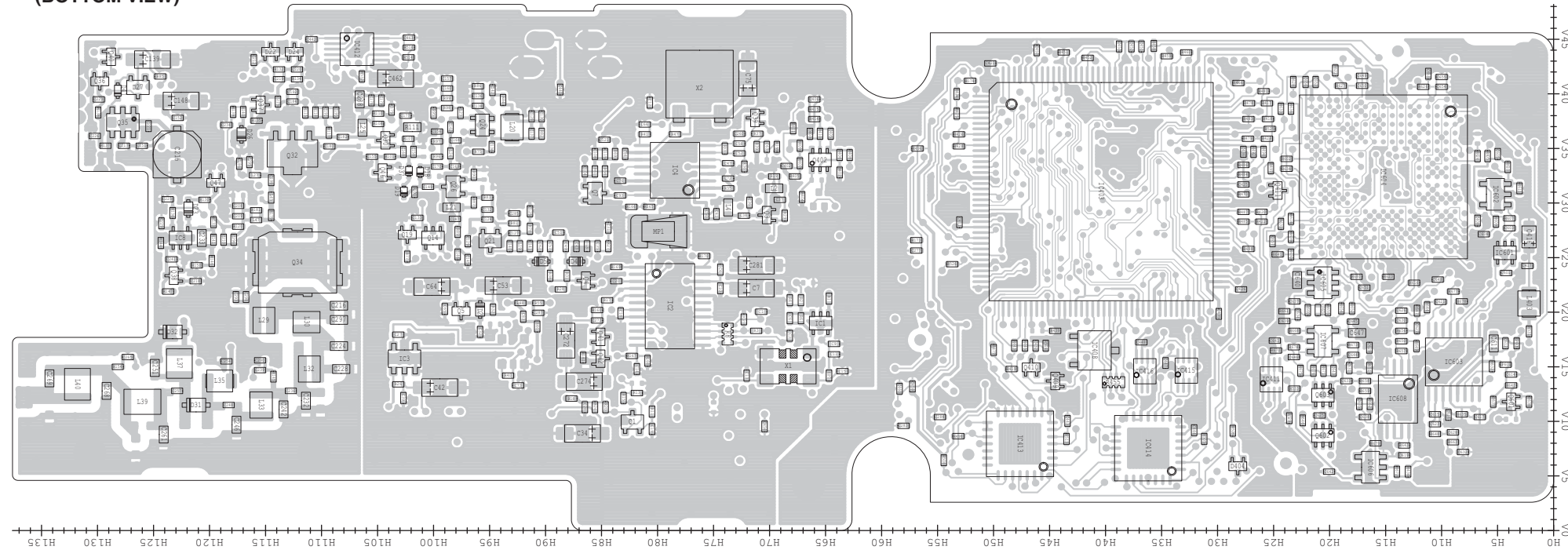
• ANT UNIT (BOTTOM VIEW)



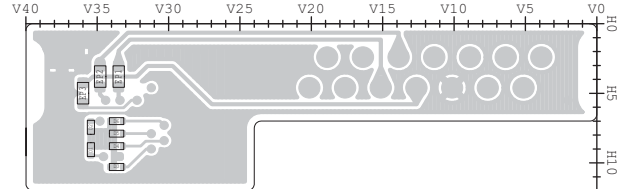
• FUSE UNIT (BOTTOM VIEW)



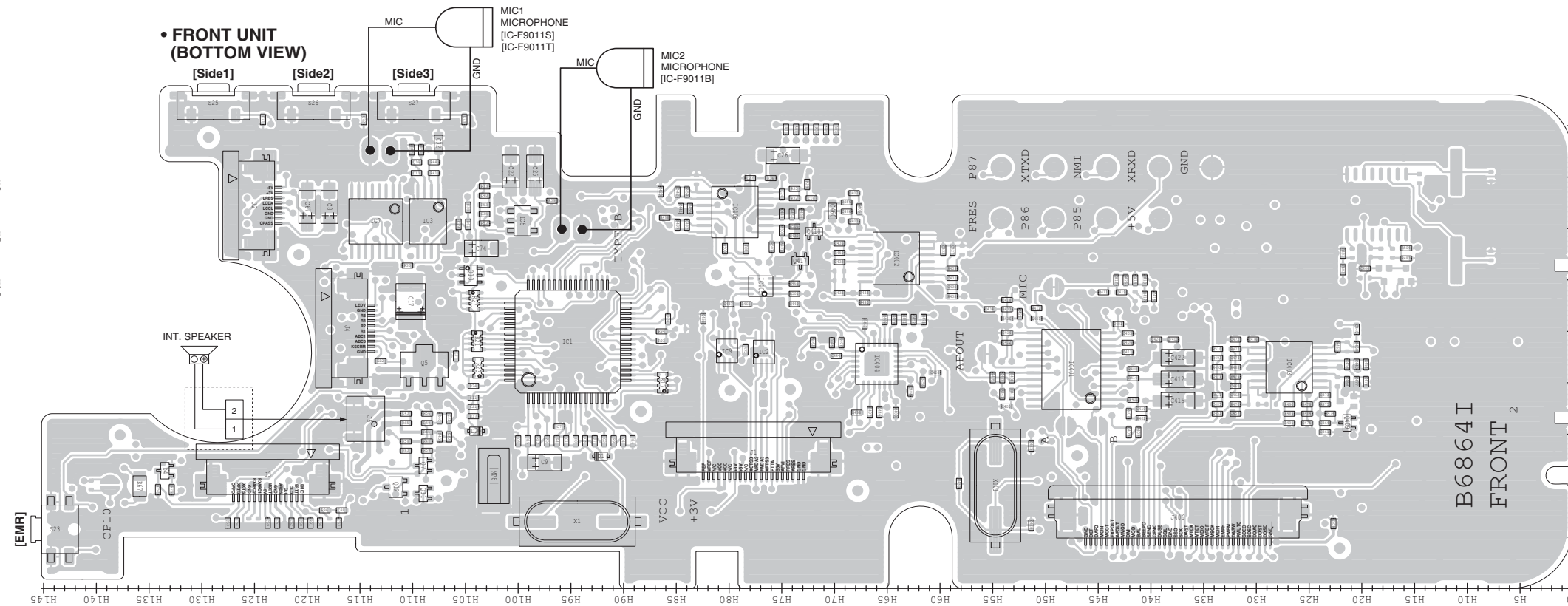
• MAIN UNIT (BOTTOM VIEW)



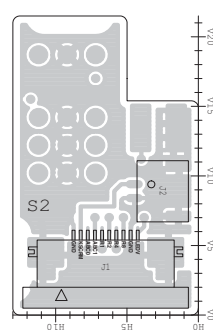
• JACK UNIT (BOTTOM VIEW)



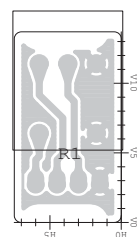
• FRONT UNIT (BOTTOM VIEW)



• SW UNIT (BOTTOM VIEW)

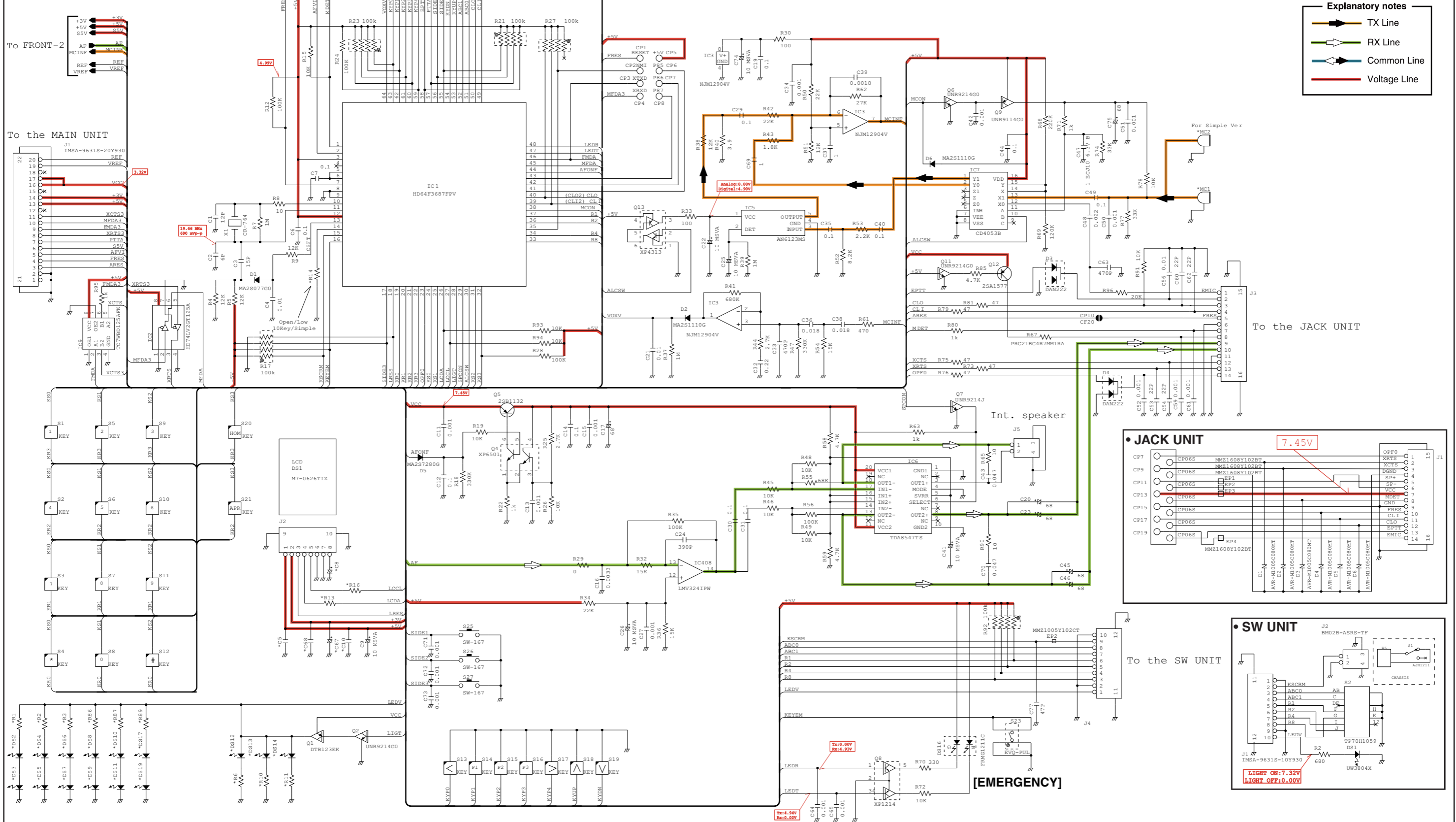


• VR UNIT (BOTTOM VIEW)



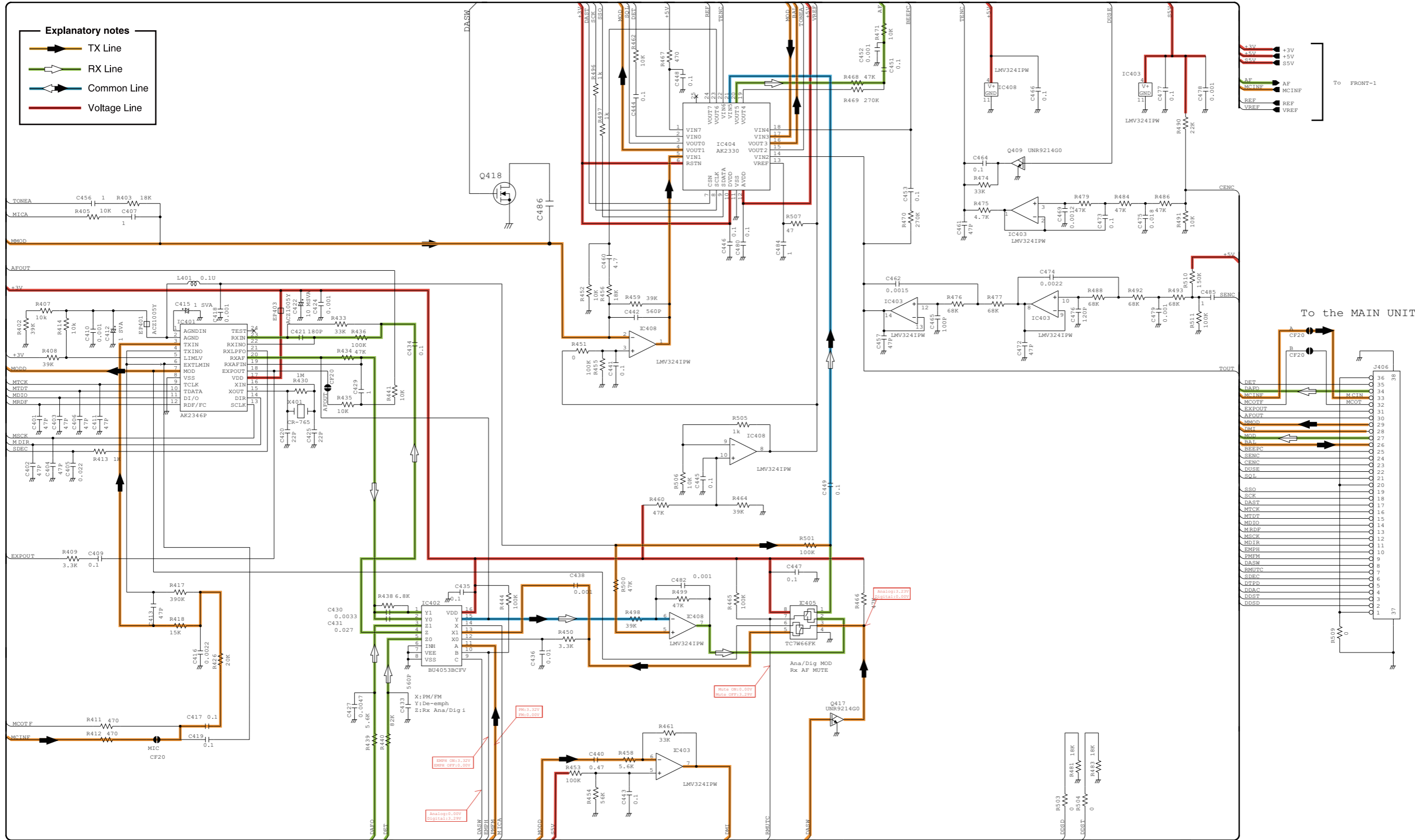
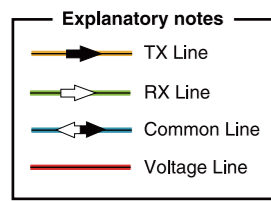
# VOLTAGE DIAGRAM

## • FRONT UNIT (1/2)



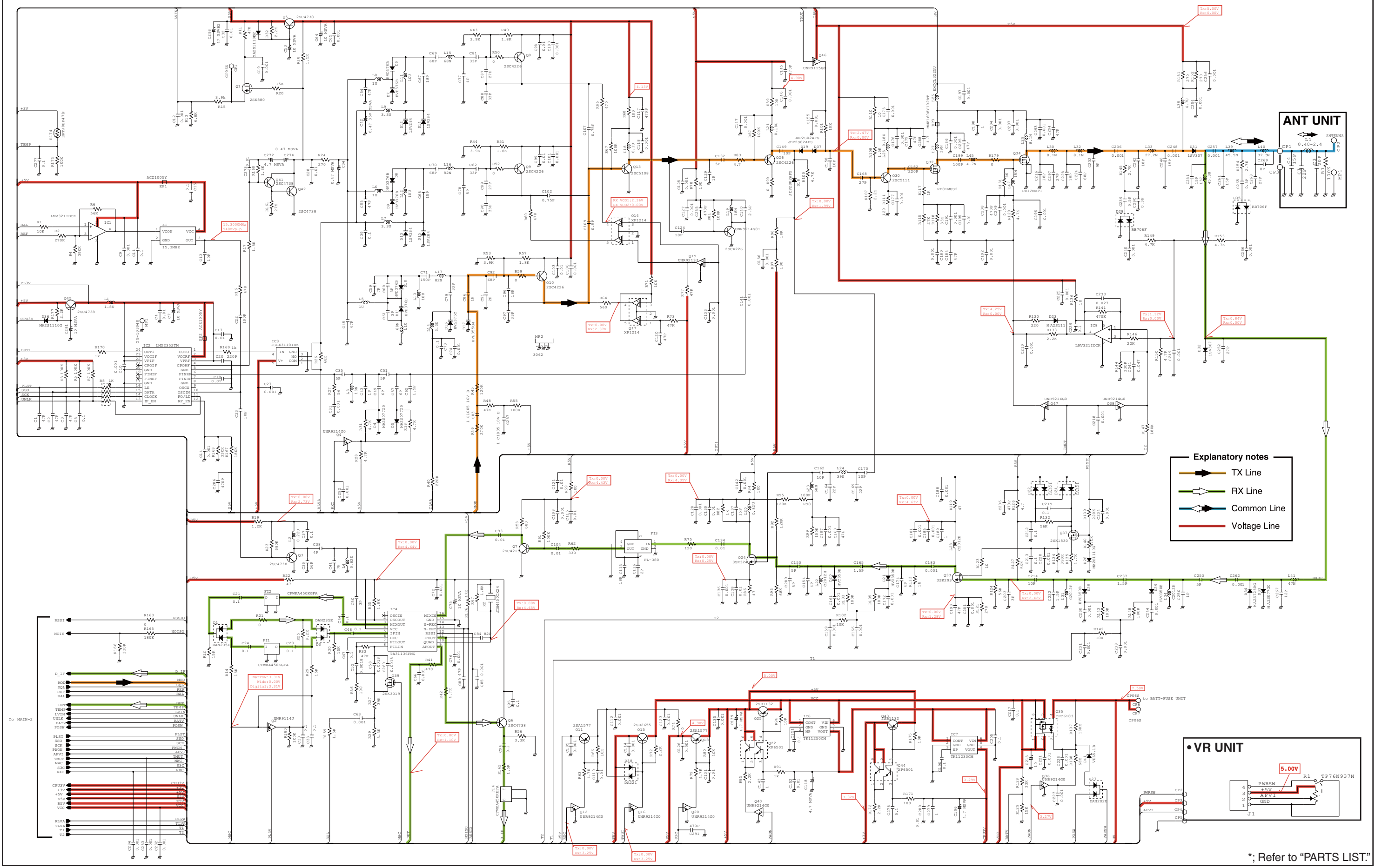
\*; Refer to "PARTS LIST."

• FRONT UNIT (2/2)



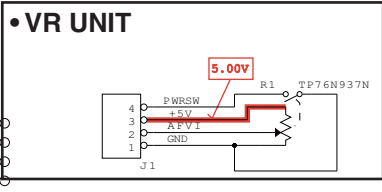
\*; Refer to "PARTS LIST."

• MAIN UNIT (1/3)



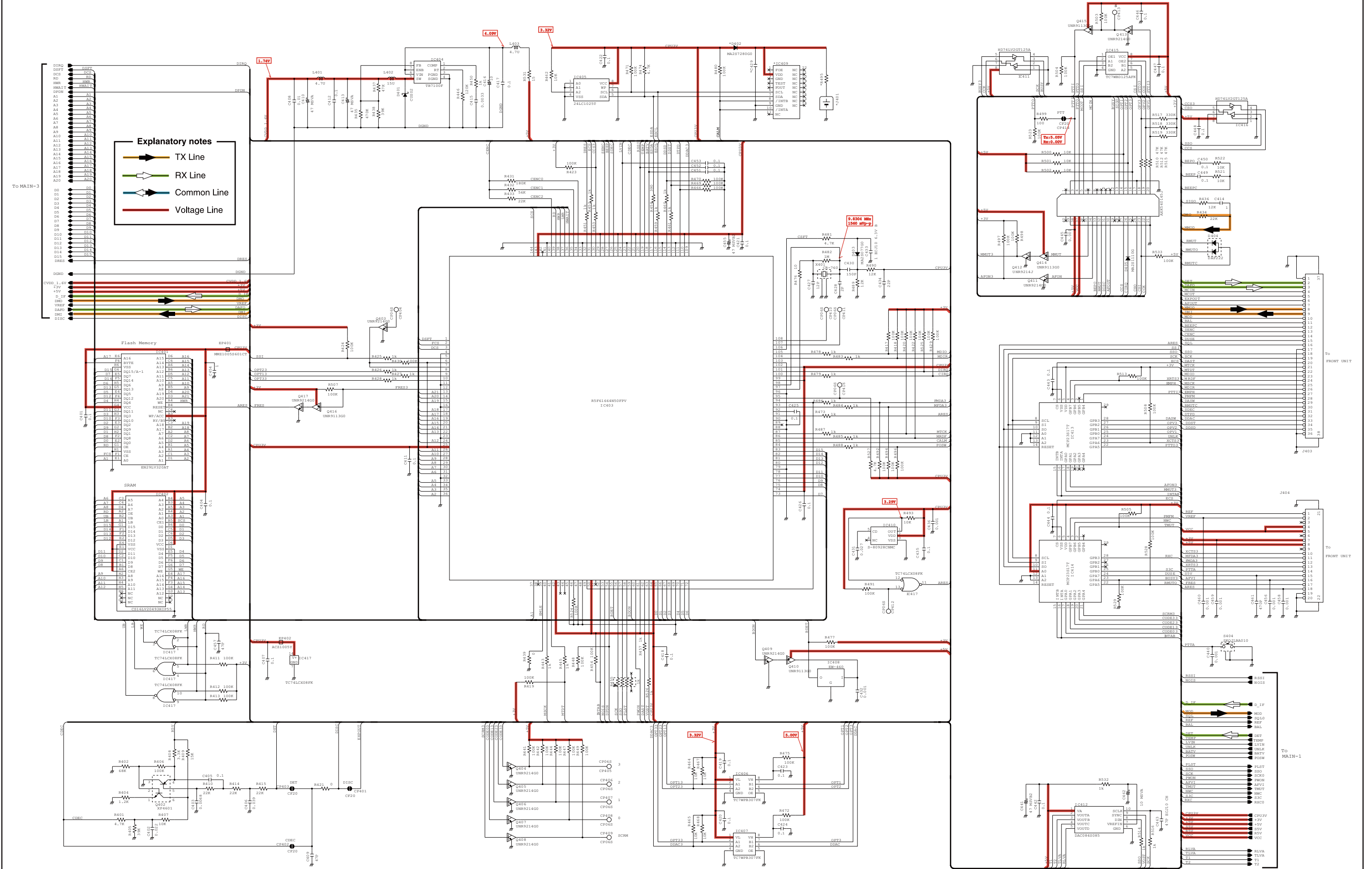
**Explanatory notes**

- ▶ TX Line
- ▶ RX Line
- ▶ Common Line
- ▶ Voltage Line



\*; Refer to "PARTS LIST."

• MAIN UNIT (2/3)



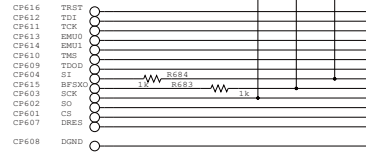
**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line

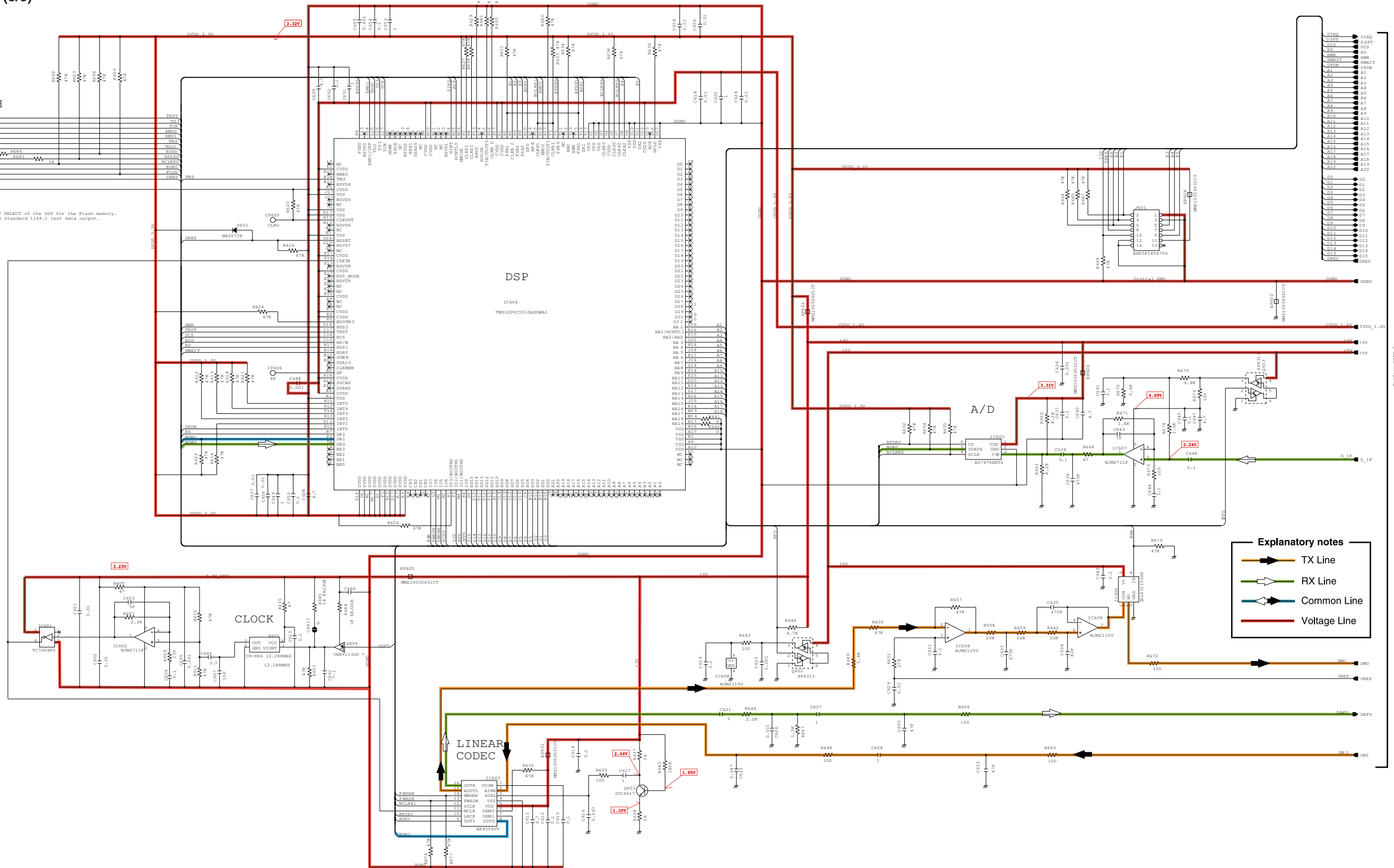
\*; Refer to "PARTS LIST."

• MAIN UNIT (3/3)

DSP FLASH



TRST: CHIP SELECT of the DSP for the Flash memory.  
 TDO: IEEE Standard 1149.1 test data output.



**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line

\*, Refer to "PARTS LIST."

Aug. 2009



# SERVICE MANUAL ADDENDUM

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## IC-F9011B IC-F9011T IC-F9011S

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[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C298	4550006780	S.TAN TEESVB2 0J 476M8R	T	82.4/19.1
C401	4030016930	S.CER ECJ0EB1A104K	T	46.3/29.1
C402	4030016970	S.CER ECJ0EB1C223K	B	68.5/33.4
C403	4030017790	S.CER ECJ0EB1E682K	B	66.4/36.3
C404	4030016930	S.CER ECJ0EB1A104K	T	46.3/23.2
C405	4030016930	S.CER ECJ0EB1A104K	B	64.5/36.3
C406	4030016940	S.CER ECJ0EB1A393K	B	66/39.5
C407	4030016930	S.CER ECJ0EB1A104K	T	31.1/18.4
C408	4030016790	S.CER ECJ0EB1C103K	B	6.8/28.4
C409	4030017420	S.CER ECJ0EC1H470J	T	39.3/43.7
C410	4550006970	S.TAN TEESVA0G476M8R	T	4.1/33.9
C411	4030016930	S.CER ECJ0EB1A104K	B	53/28.2
C412	4030016930	S.CER ECJ0EB1A104K	T	5.7/28.1
C413	4550006970	S.TAN TEESVA0G476M8R	T	1.8/33.9
C414	4030018860	S.CER ECJ0EB0J105K	T	30.5/35.1
C415	4030017770	S.CER ECJ0EB1E332K	T	2.3/18.4
C416	4550007030	S.TAN TEESVP 0J 106M8R	B	2.2/26.9
C417	4030016930	S.CER ECJ0EB1A104K	B	2.3/24.2
C418	4030016930	S.CER ECJ0EB1A104K	T	32/18.4
C419	4030016930	S.CER ECJ0EB1A104K	T	36.1/33.3
C420	4030016930	S.CER ECJ0EB1A104K	T	37.9/30.8
C421	4030016930	S.CER ECJ0EB1A104K	B	50.3/42.8
C422	4030016930	S.CER ECJ0EB1A104K	T	51.9/11.3
C423	4030016930	S.CER ECJ0EB1A104K	T	33.7/34.3
C424	4030016930	S.CER ECJ0EB1A104K	T	35.3/29.3
C425	4030016930	S.CER ECJ0EB1A104K	B	27.7/31.7
C426	4030016930	S.CER ECJ0EB1A104K	B	27.9/22.1
C427	4030017630	S.CER ECJ0EC1H120J	T	14.2/41.7
C428	4030017350	S.CER ECJ0EC1H020B	T	16.7/37.6
C429	4030016930	S.CER ECJ0EB1A104K	T	52.1/10.4
		[F9011S] [F9011T]		
C430	4030017700	S.CER ECJ0EC1H151J	T	17.6/38.3
C431	4030017030	S.CER ECJ0EB1A273K	T	32.1/23.3
C432	4030017460	S.CER ECJ0EB1E102K	B	46.2/16.9
C433	4030018860	S.CER ECJ0EB0J105K	T	20.4/40.7
C434	4030017400	S.CER ECJ0EC1H220J	T	16.5/41.9
C435	4030016930	S.CER ECJ0EB1A104K	B	29.9/19.8
C436	4030017460	S.CER ECJ0EB1E102K	B	27.7/34.7
C440	4030017460	S.CER ECJ0EB1E102K	B	88.7/40.4
C441	4550006780	S.TAN TEESVB2 0J 476M8R	T	2.7/12.6
C442	4030016930	S.CER ECJ0EB1A104K	B	110.9/45
C443	4030016930	S.CER ECJ0EB1A104K	B	43.4/10
C444	4030016930	S.CER ECJ0EB1A104K	B	32.1/9.2
C445	4030017460	S.CER ECJ0EB1E102K	T	20.1/38.5
C446	4030016930	S.CER ECJ0EB1A104K	T	26.5/16.3
C447	4030016930	S.CER ECJ0EB1A104K	B	34.6/15.3
C448	4030016930	S.CER ECJ0EB1A104K	B	36.8/17.2
C449	4030016930	S.CER ECJ0EB1A104K	T	37.4/38.1
C450	4030016930	S.CER ECJ0EB1A104K	T	35.3/39.8
C451	4030016930	S.CER ECJ0EB1A104K	B	36.8/44.3
C452	4030016930	S.CER ECJ0EB1A104K	B	37.7/44.3
C453	4030016930	S.CER ECJ0EB1A104K	B	38.8/44.3
C454	4030018860	S.CER ECJ0EB0J105K	T	42.1/22.7
C455	4550006780	S.TAN TEESVB2 0J 476M8R	T	45.9/18.4
C456	4030017460	S.CER ECJ0EB1E102K	T	71.7/5.3
C457	4030017420	S.CER ECJ0EC1H470J	B	46.1/44
C458	4030017460	S.CER ECJ0EB1E102K	B	70.4/9.5
C459	4030017460	S.CER ECJ0EB1E102K	B	57.2/13.2
C460	4030017460	S.CER ECJ0EB1E102K	B	58.4/13
C461	4030017730	S.CER ECJ0EB1E471K	T	72.6/5.3
C462	4550006250	S.TAN TEESVA 1A 106M8R	B	103.4/41.4
C463	4030017420	S.CER ECJ0EC1H470J	B	102.2/45.1
C601	4030016790	S.CER ECJ0EB1C103K	B	4.2/23.6
C602	4030016790	S.CER ECJ0EB1C103K	T	6.3/36.1
C603	4030017380	S.CER ECJ0EC1H050B	B	3.9/27.7
C604	4030016930	S.CER ECJ0EB1A104K	B	6.2/27.1
C605	4030017460	S.CER ECJ0EB1E102K	B	5/34.5
C606	4030016930	S.CER ECJ0EB1A104K	T	6.3/33.6
C607	4030017620	S.CER ECJ0EC1H100C	T	6.3/34.5
C608	4030018910	S.CER C1608 JB 0J 475K-T	T	9.9/32
C609	4030018910	S.CER C1608 JB 0J 475K-T	T	8.6/32.9
C610	4030016930	S.CER ECJ0EB1A104K	T	10.3/37
C611	4030018910	S.CER C1608 JB 0J 475K-T	B	5.3/17.1
C612	4030016930	S.CER ECJ0EB1A104K	B	4.3/17.1
C614	4030016930	S.CER ECJ0EB1A104K	B	3.8/14.3
C615	4030016930	S.CER ECJ0EB1A104K	B	10.6/10.6
C616	4030016950	S.CER ECJ0EB1A473K	B	9.4/10.6
C617	4030018860	S.CER ECJ0EB0J105K	B	6.6/10.4
C618	4030016790	S.CER ECJ0EB1C103K	T	5.7/31.5
C619	4030016930	S.CER ECJ0EB1A104K	B	13.3/6.9
C620	4030018860	S.CER ECJ0EB0J105K	T	5.7/30.5
C621	4030018860	S.CER ECJ0EB0J105K	B	10.1/20.9
C623	4030016950	S.CER ECJ0EB1A473K	B	10.6/9.7
C624	4030016790	S.CER ECJ0EB1C103K	T	22/16.5
C625	4030017460	S.CER ECJ0EB1E102K	B	20.9/10.5
C626	4030017460	S.CER ECJ0EB1E102K	B	13.6/20.1
C627	4030018860	S.CER ECJ0EB0J105K	B	12.2/18.5
C628	4030018860	S.CER ECJ0EB0J105K	B	9/9
C629	4030016790	S.CER ECJ0EB1C103K	B	16.4/16.7
C630	4030017420	S.CER ECJ0EC1H470J	B	13.6/19.2
C631	4030016930	S.CER ECJ0EB1A104K	B	18.2/14.9
C632	4030017420	S.CER ECJ0EC1H470J	B	8.1/7.2
C633	4030017450	S.CER ECJ0EB1E271K	B	18.5/13.7
C634	4030016930	S.CER ECJ0EB1A104K	B	22.8/19.8
C635	4030017730	S.CER ECJ0EB1E471K	B	17.3/11.6
C636	4030017460	S.CER ECJ0EB1E102K	T	22.3/24.1
C637	4030016930	S.CER ECJ0EB1A104K	B	23.1/21
C638	4030017680	S.CER ECJ0EC1H820J	B	16.8/10.4
C639	4030017730	S.CER ECJ0EB1E471K	B	24/19.2
C640	4030018910	S.CER C1608 JB 0J 475K-T	B	22.9/22.9
C641	4030016930	S.CER ECJ0EB1A104K	B	24.9/17.4
C642	4030016930	S.CER ECJ0EB1A104K	B	20/5.4
C643	4030017590	S.CER ECJ0EC1H070C	B	19.6/14.6
C644	4030016930	S.CER ECJ0EB1A104K	B	17.9/16.1
C645	4030016930	S.CER ECJ0EB1A104K	B	17.9/19.1

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C646	4030016930	S.CER ECJ0EB1A104K	B	23.2/15.9
C647	4030018910	S.CER C1608 JB 0J 475K-T	B	17.5/18.1
C648	4030017460	S.CER ECJ0EB1E102K	B	10.3/23
C649	4030018860	S.CER ECJ0EB0J105K	B	17.1/41.6
C650	4030016930	S.CER ECJ0EB1A104K	B	17.1/40.7
C651	4030018860	S.CER ECJ0EB0J105K	B	16.9/22.2
C652	4030016930	S.CER ECJ0EB1A104K	B	21.2/41.1
C653	4030018860	S.CER ECJ0EB0J105K	B	11.2/41.8
C654	4030016930	S.CER ECJ0EB1A104K	B	10/40.6
C655	4030017460	S.CER ECJ0EB1E102K	B	10/41.5
C656	4030016790	S.CER ECJ0EB1C103K	B	22.1/41.1
C657	4030016790	S.CER ECJ0EB1C103K	B	25.1/26.5
C658	4030016790	S.CER ECJ0EB1C103K	T	7.9/31
C659	4030016790	S.CER ECJ0EB1C103K	T	11.4/25.1
C660	4030016930	S.CER ECJ0EB1A104K	T	11.5/42.1
C661	4030016930	S.CER ECJ0EB1A104K	T	7.2/40.7
J401	2610000500	S.CON PB-614SS13-TF	[F9011S] T	60.2/12.9
	2610000500	S.CON PB-614SS13-TF	[F9011T]	
J402	6510026770	S.CON AXK540147YG	T	25.1/34
J403	6510022221	S.CON 36FLZ-SM2-R-TB(LF)(SN)	T	34.7/9.2
J404	6510025240	S.CON IMSA-9631S-20Y912	T	74.9/10.2
J601	6510026220	S.CON AXK5F14547YG	T	12/6.8
S404	2260003120	SWI SKQJLBA010		
BT1	3020000340	LIT ML-614S/ZTK	[F9011S]	
	3020000340	LIT ML-614S/ZTK	[F9011T]	
EP1	6910015370	S.BEA ACZ1005Y-102-T	B	64.7/14.2
EP2	6910015370	S.BEA ACZ1005Y-102-T	T	78.1/26.3
EP3	6910012350	S.BEA MMZ1608Y 102BT	T	117.6/30.9
EP401	6910016330	S.BEA MMZ1005S 601CT-S	T	46.3/21.9
EP402	6910015370	S.BEA ACZ1005Y-102-T	T	30/23.1
EP601	6910016330	S.BEA MMZ1005S 601CT-S	B	4.3/15.2
EP602	6910016330	S.BEA MMZ1005S 601CT-S	T	6.1/38.5
EP603	6910016330	S.BEA MMZ1005S 601CT-S	T	23.2/16.2
EP604	6910016330	S.BEA MMZ1005S 601CT-S	T	11.1/11.1
EP605	6910016330	S.BEA MMZ1005S 601CT-S	B	3.3/17.1
EP606	6910016330	S.BEA MMZ1005S 601CT-S	B	21/20.2
MP1	6910014870	S.PLA OG-503040	B	79.9/27.4
MP2	8510018910	S.CAS 3062 VCO CASE Y1092	T	95.9/19.1

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

[FUSE UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200006190	S.COI BLM21PG300SN1D (BLM21P300S)	T	8.5/10.2
C1	4030016930	S.CER ECJ0EB1A104K	T	4.5/9.3
C2	4030017460	S.CER ECJ0EB1E102K	T	5.4/9.3
C3	4030017420	S.CER ECJ0EC1H470J	T	6.3/9.3
C4	4030017420	S.CER ECJ0EC1H470J	T	8.8/8.7
C5	4030017460	S.CER ECJ0EB1E102K	T	8.8/7.8
C6	4030016930	S.CER ECJ0EB1A104K	T	11.1/9.8
J1	6910016860	CON IMSA-9230B-1-02Z150-PT1		
F1	5210000970	S.FUS ERBSE3R00U	T	11/8.1

[ANT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200013450	S.COI 0.40-2.4-5TL 43.3N <COMO>	T	3.3/10.2
R1	7030003680	S.RES ERJ3GEYJ 104 V (100K)	T	2.6/6
C1	4030007050	S.CER C1608 CH 1H 220J-T	T	2.6/14.1
C3	4030009990	S.CER C1608 CH 1H 200J-T	T	2.6/7.6
C4	4030007030	S.CER C1608 CH 1H 150J-T	T	2.6/12.8
MP1	8930065181	S.PLA 2803 ANT PLATE-1		

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

[VR UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R1	7210003300	VAR TP76N937N-21.5F-10KA-3062		
J1	6910017680	CON IMSA-9230B-1-04Z140-PT1		

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140010771	S.IC HD64F3687FPV(EMPTY)	B	95.3/24
IC2	1130013050	S.IC HD74LV2GT125AUSE-E	B	76.7/23
IC3	1110005330	S.IC NJM12904V-TE1-#ZZZB	B	108.5/35.7
IC5	1110005310	S.IC AN6123MS	B	99.6/35.7
IC6	1110006770	S.IC TDA8547TS/N	T	113.7/13.1
IC7	1140013200	S.IC CD4053BPWR	B	113.5/35.7
IC9	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	80.2/23.1
IC401	1110006221	S.IC AK2346P-E2/P	B	47.5/21.3
IC402	1130008230	S.IC BU4053BCFV-E2	B	64.1/32.1
IC403	1110006470	S.IC LMV324IPWR	B	26.9/21.5
IC404	1110007290	S.IC AK2330P-L	B	66/21.8
IC405	1130011741	S.IC TC7W66FK(TE85L,F)	B	77/29.4
IC408	1110006470	S.IC LMV324IPWR	B	79.4/36.6
Q1	1590000980	S.TRA DTB123EK T146	T	116.1/31.1
Q2	1590003451	S.TRA UNR9214G0L	T	117.1/27.9
Q4	1590001190	S.TRA XP6501-(TX).AB	T	113.3/20.6
Q5	1520000460	S.TRA 2SB1132 T100 R	B	108.9/21.7
Q6	1590003451	S.TRA UNR9214G0L	T	118.8/36.1
Q7	1590003451	S.TRA UNR9214G0L	T	109/11.9
Q8	1590001400	S.TRA XP1214(TX)	T	138/13.4
Q9	1590003241	S.TRA UNR9114G0L	T	114.9/34.6
Q11	1590003451	S.TRA UNR9214G0L	B	109/9.2
Q12	1510000920	S.TRA 2SA1577 T106 Q	B	111.6/9.8
Q13	1590003550	S.TRA XP4313(TX)	B	104.5/30.4
Q409	1590003451	S.TRA UNR9214G0L	B	21.4/16.1
Q417	1590003451	S.TRA UNR9214G0L	B	73.2/31.8
D1	1790001261	S.DIO MA2S077G0L	B	92.1/12.8
D2	1790001251	S.DIO MA2S1110GL	B	104/15.3
D3	1750000520	S.DIO DAN222TL	T	116.7/7.8
D4	1750000520	S.DIO DAN222TL	B	133.5/11.4
D5	1790001241	S.DIO MA2S7280GL	T	110.1/22.9
D6	1790001251	S.DIO MA2S1110GL	T	118.7/37.7
X1	6050011720	S.XTA CR-764 SMD-49TB 19.6608 MHz <KDS>	B	94.4/6.5
X401	6050011730	S.XTA CR-765 SMD-49TA 3.6864 MHz <KDS>	B	54.7/10
L401	6200011031	S.COI ELJRF R10JFB	B	50.8/26.2
R1	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	74.6/44.6
R2	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]	B	72.7/44.6
R3	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]	B	71.7/44.6
R4	7030008010	S.RES ERJ2GEJ 123 X (12K) [F9011T] only	B	96.3/14.3
R5	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	97.2/14.3
R6	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/36.5
R7	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	92.7/14.3
R8	7030005530	S.RES ERJ2GEJ 100 X (10)	B	94.5/14.3
R9	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	90.9/14.3
R10	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/24
R11	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]	T	108.7/13.5
R12	7030005090	S.RES ERJ2GEJ 104 X (100K) [F9011T]	B	98.1/14.3
R13	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/37.5
R14	7030010040	S.RES ERJ2GEJ-JPW [F9011B]	B	89.1/14.3
R15	7030005050	S.RES ERJ2GEJ 103 X (10K) [F9011S]	B	99.1/14.3
R16	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011T]	T	124.2/36.6
R17	7410001140	S.ARR EXB28V104JX	B	86.3/20
R18	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	110.7/19.4
R19	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	110.7/21.2
R21	7410001140	S.ARR EXB28V104JX	B	103.9/24
R22	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	115.7/20.2
R23	7410001140	S.ARR EXB28V104JX	B	103.8/21.4
R24	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	104.2/19.7
R25	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	115.7/22.9
R26	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	115.7/22
R27	7410001140	S.ARR EXB28V104JX	B	104.1/27.9
R28	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	85.8/26.2
R29	7030010040	S.RES ERJ2GEJ-JPW	B	72.2/38.3
R30	7030004980	S.RES ERJ2GEJ 101 X (100)	B	110.5/31.4
R32	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	74/38.3
R33	7030004980	S.RES ERJ2GEJ 101 X (100)	B	103.2/39.1
R34	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	78.4/33
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	73.1/38.3
R36	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	76/39.9
R37	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	104.2/16.7
R38	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	110.2/28.4
R39	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	96.8/37.7
R40	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	110.6/26.2
R41	7030007060	S.RES ERJ2GEJ 684X (680K)	B	108/40.4
R42	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.1/28.4
R43	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	111.5/30.2
R44	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	B	108/41.4
R45	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.4/14.7
R46	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.4/16.5
R47	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	110.1/42.6
R48	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	108.6/14.3
R49	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	108.6/16.1
R50	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.8/31.5
R51	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	109.4/32.9

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

[FRONT UNIT]

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Rows include parts like 7030005210, 7030007290, 7030007340, etc.

[FRONT UNIT]

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Rows include parts like 7030005120, 7030005050, 7030004970, etc.

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

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C427	4030017780	S.CER ECJ0EB1E472K	B	58.8/32.9
C429	4030018860	S.CER ECJ0EB0J105K	B	54.1/20.5
C430	4030017770	S.CER ECJ0EB1E332K	B	58.8/29.3
C431	4030017030	S.CER ECJ0EB1A273K	B	58.8/30.2
C433	4030018820	S.CER ECJ0EB1H561K	B	59.7/32.9
C434	4030016930	S.CER ECJ0EB1A104K	B	55.3/27.1
C435	4030016930	S.CER ECJ0EB1A104K	B	69.5/28.7
C436	4030016790	S.CER ECJ0EB1C103K	B	69.5/33.5
C438	4030017460	S.CER ECJ0EB1E102K	B	69.5/31.7
C440	4030018900	S.CER ECJ0EB0J474K	B	20.5/25.2
C441	4030016930	S.CER ECJ0EB1A104K	B	84.6/36.9
C442	4030018820	S.CER ECJ0EB1H561K	B	84.9/38.5
C443	4030016930	S.CER ECJ0EB1A104K	B	20.5/21.8
C444	4030016930	S.CER ECJ0EB1A104K	B	69.8/22.6
C445	4030016930	S.CER ECJ0EB1A104K	B	75/36.4
C446	4030016930	S.CER ECJ0EB1A104K	B	65.7/17.1
C447	4030016930	S.CER ECJ0EB1A104K	B	80/27.6
C448	4030016930	S.CER ECJ0EB1A104K	B	70.2/23.9
C449	4030016930	S.CER ECJ0EB1A104K	B	73.8/27.6
C451	4030016930	S.CER ECJ0EB1A104K	B	63.4/26.1
C452	4030017460	S.CER ECJ0EB1E102K	B	62.5/26.1
C453	4030016930	S.CER ECJ0EB1A104K	B	33.7/17
C456	4030018860	S.CER ECJ0EB0J105K	B	68.9/35.3
C457	4030017420	S.CER ECJ0EC1H470J	B	32/17
C460	4030018910	S.CER C1608 JB 0J 475K-T	B	70.2/36.7
C461	4030017420	S.CER ECJ0EC1H470J	B	23.5/15.2
C462	4030017910	S.CER ECJ0EB1H152K	B	32/18.8
C464	4030016930	S.CER ECJ0EB1A104K	B	23.5/16.1
C465	4030017430	S.CER ECJ0EC1H101J	B	32/19.7
C466	4030016930	S.CER ECJ0EB1A104K	B	19.7/31.1
C469	4030017750	S.CER ECJ0EB1E122K	B	21.4/20.1
C472	4030017420	S.CER ECJ0EC1H470J	B	32/24.2
C473	4030016930	S.CER ECJ0EB1A104K	B	23.5/18.8
C474	4030017760	S.CER ECJ0EB1H222K	B	32/22.4
C475	4030016960	S.CER ECJ0EB1C183K	B	25.2/16.1
C476	4030017690	S.CER ECJ0EC1H121J	B	30.3/24.2
C477	4030016930	S.CER ECJ0EB1A104K	B	20.5/20.1
C478	4030017460	S.CER ECJ0EB1E102K	B	19.6/20.1
C479	4030017460	S.CER ECJ0EB1E102K	B	33.7/20.6
C480	4030016930	S.CER ECJ0EB1A104K	B	64.2/17.1
C482	4030017460	S.CER ECJ0EB1E102K	B	84/35.3
C484	4030018860	S.CER ECJ0EB0J105K	B	62.8/19.2
C485	4030018860	S.CER ECJ0EB0J105K	B	33.7/17.9
J1	6510025240	S.CON IMSA-9631S-20Y912	B	77.7/13.4
J2	6510025250	S.CON IMSA-9631S-08Y912 [F9011S]	B	125.2/37.2
	6510025250	S.CON IMSA-9631S-08Y912 [F9011T]		
J3	6510026310	S.CON IMSA-9631S-14Y920	B	123.7/11.2
J4	6510025260	S.CON IMSA-9631S-10Y912	B	116.4/25.3
J5	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	114.4/16.5
J406	6510022221	S.CON 36FLZ-SM2-R-TB(LF)(SN)	B	37.4/7.1
DS1	5030003140	LCD M7-0626TIZ [F9011S]		
	5030003140	LCD M7-0626TIZ [F9011T]		
DS2	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/31.2
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS3	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/16.7
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS4	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/31.2
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS5	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/16.7
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS6	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/31.2
DS7	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/16.7
DS8	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/31.2
DS9	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/16.7
DS10	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/31.2
DS11	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/16.7
DS12	5040002960	S.LED SML-A12MT T86 [F9011S]	T	107.3/34.5
	5040002960	S.LED SML-A12MT T86 [F9011T]		
DS13	5040002960	S.LED SML-A12MT T86 [F9011S]	T	107.3/24
	5040002960	S.LED SML-A12MT T86 [F9011T]		
DS14	5040002960	S.LED SML-A12MT T86 [F9011S]	T	107.3/13.5
	5040002960	S.LED SML-A12MT T86 [F9011T]		
DS16	5040003141	S.LED FRMG1211C-TR	T	143.5/11.1
DS17	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/32.6
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS19	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/15.4
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
MC1	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011S]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011T]		

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
MC2	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011B] only		
S23	2230001060	S.SWI EVQ-PUL 02K	B	143.4/5.7
S25	2260002800	S.SWI SW-167 (SKQTLAE010)	B	128.9/46.9
S26	2260002800	S.SWI SW-167 (SKQTLAE010)	B	119.4/46.9
S27	2260002800	S.SWI SW-167 (SKQTLAE010)	B	109.9/46.9
EP2	6910018460	S.BEA MMZ1005Y102C-T	B	113/22.1
EP401	6910015600	S.BEA ACZ1005Y-241 (240)	B	41.7/18.3
EP403	6910015370	S.BEA ACZ1005Y-102-T	B	37.9/24.2

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

[JACK UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	9/35.4
D2	1790001810	S.VAR AVR-M1005C080MTABB	B	7.4/35.4
D3	1790001810	S.VAR AVR-M1005C080MTABB	B	10.3/33.6
D4	1790001810	S.VAR AVR-M1005C080MTABB	B	8.8/33.6
D5	1790001810	S.VAR AVR-M1005C080MTABB	B	7.9/33.6
D6	1790001810	S.VAR AVR-M1005C080MTABB	B	7/33.6
J1	6510026310	S.CON IMSA-9631S-14Y920	T	8.4/31.7
EP1	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/33.5
EP2	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/34.8
EP3	6910012350	S.BEA MMZ1608Y 102BT	B	5/36
EP4	6910012350	S.BEA MMZ1608Y 102BT	T	1.9/23.5

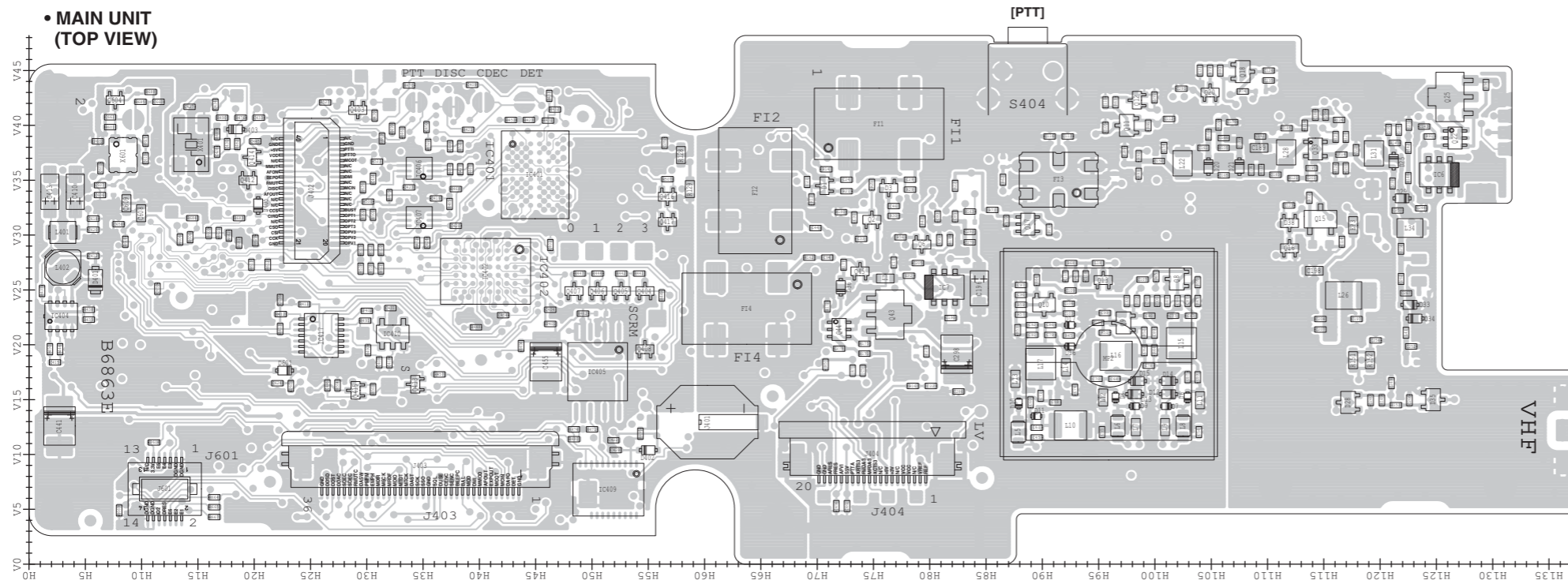
[SW UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R2	7030005010	S.RES ERJ2GEJ 681 X (680)	T	4/9.9
J1	6510025260	S.CON IMSA-9631S-10Y912	B	6.5/3.3
J2	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	2.5/8.9
DS1	5040003170	LED UW3804X		
S2	2250000610	ENC TP70H1059-24.5F-3062		

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

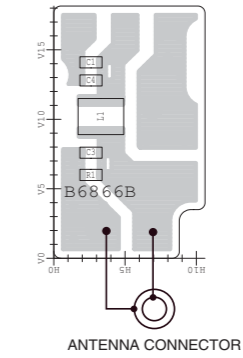
# BOARD LAYOUTS

• MAIN UNIT  
(TOP VIEW)

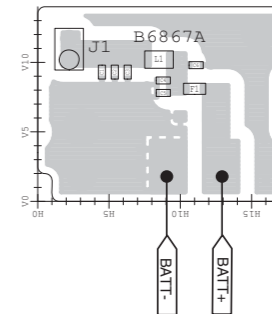


• ANT UNIT  
(TOP VIEW)

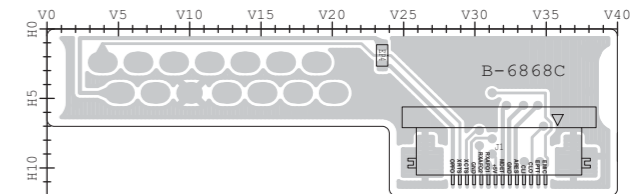
The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.



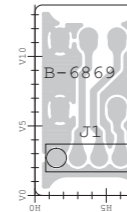
• FUSE UNIT  
(TOP VIEW)



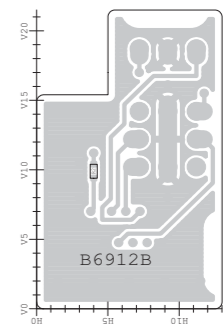
• JACK UNIT  
(TOP VIEW)



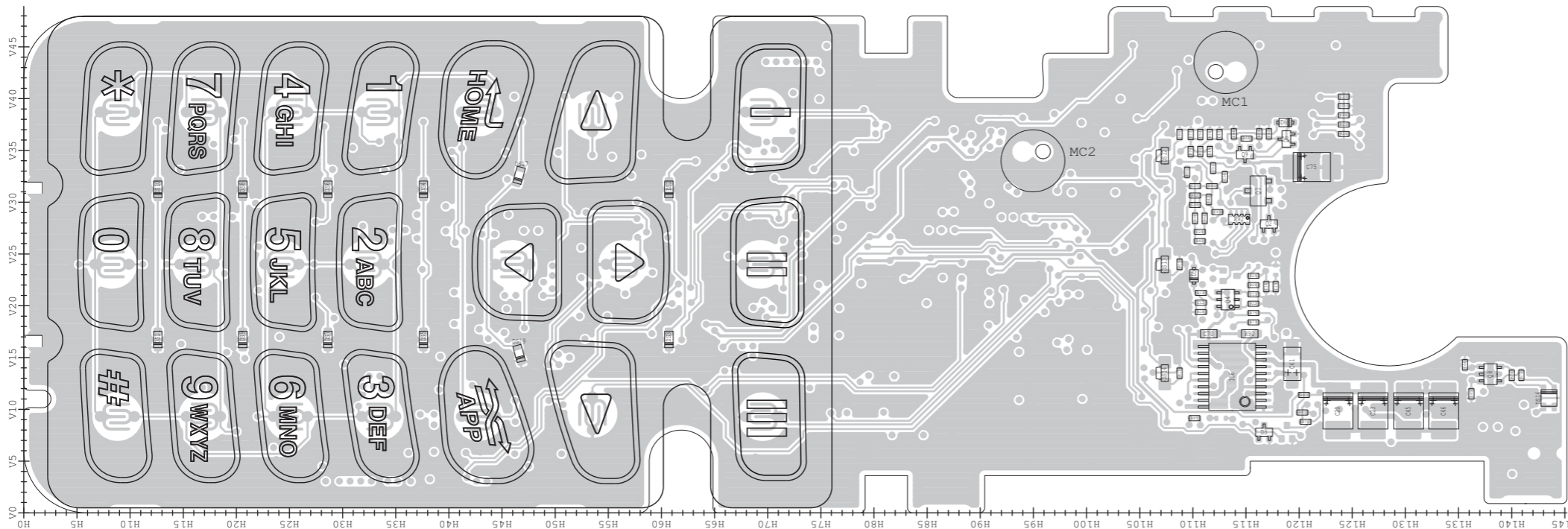
• VR UNIT  
(TOP VIEW)



• SW UNIT  
(TOP VIEW)

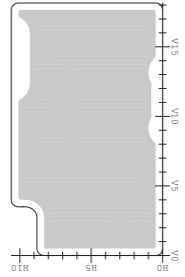


• FRONT UNIT  
(TOP VIEW)

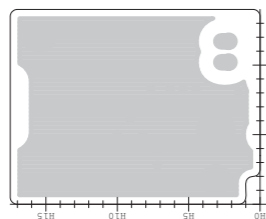


The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

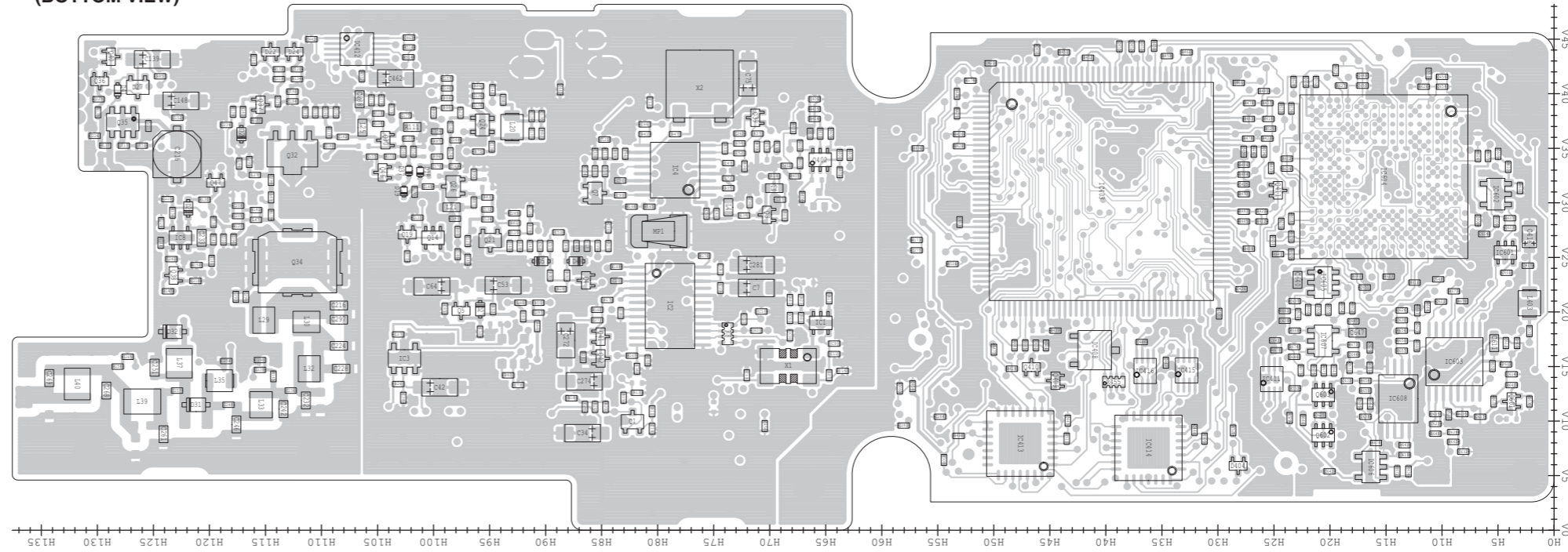
• ANT UNIT  
(BOTTOM VIEW)



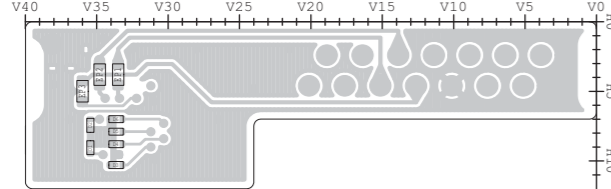
• FUSE UNIT  
(BOTTOM VIEW)



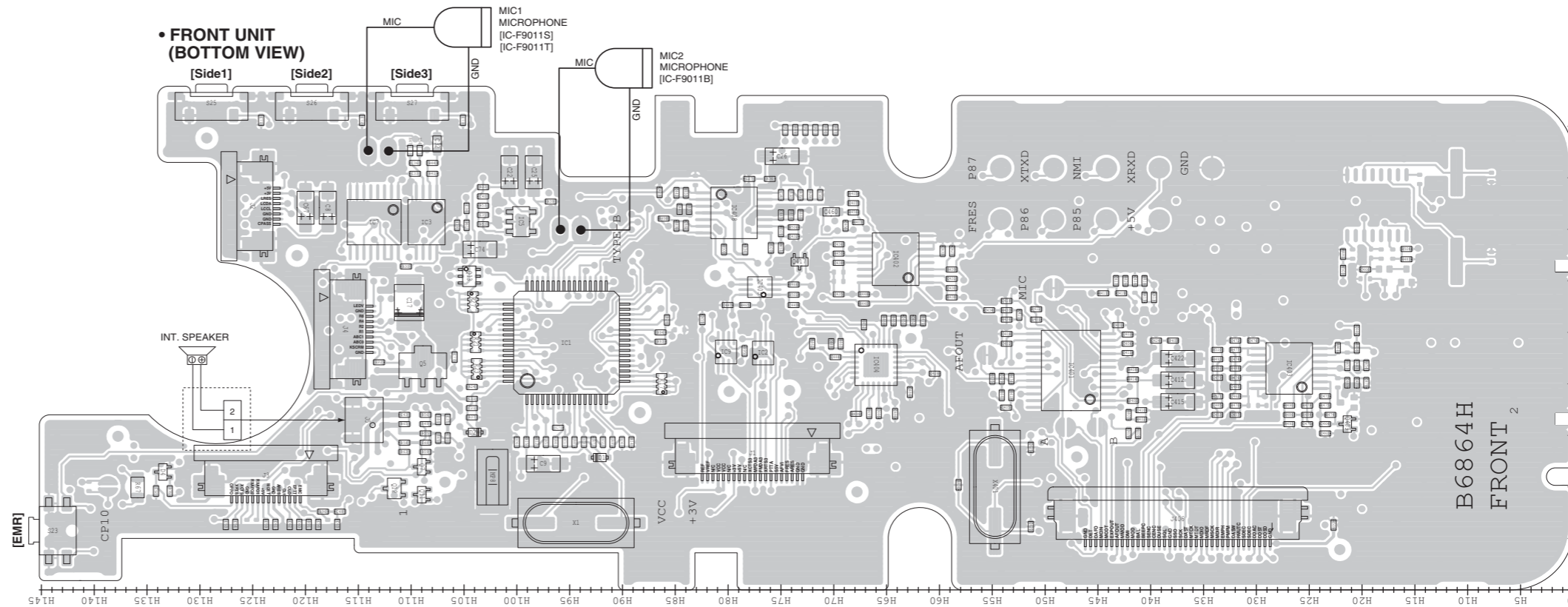
• MAIN UNIT  
(BOTTOM VIEW)



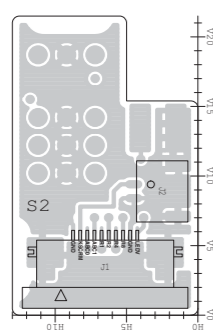
• JACK UNIT  
(BOTTOM VIEW)



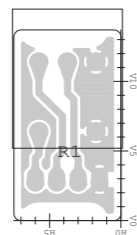
• FRONT UNIT  
(BOTTOM VIEW)



• SW UNIT  
(BOTTOM VIEW)

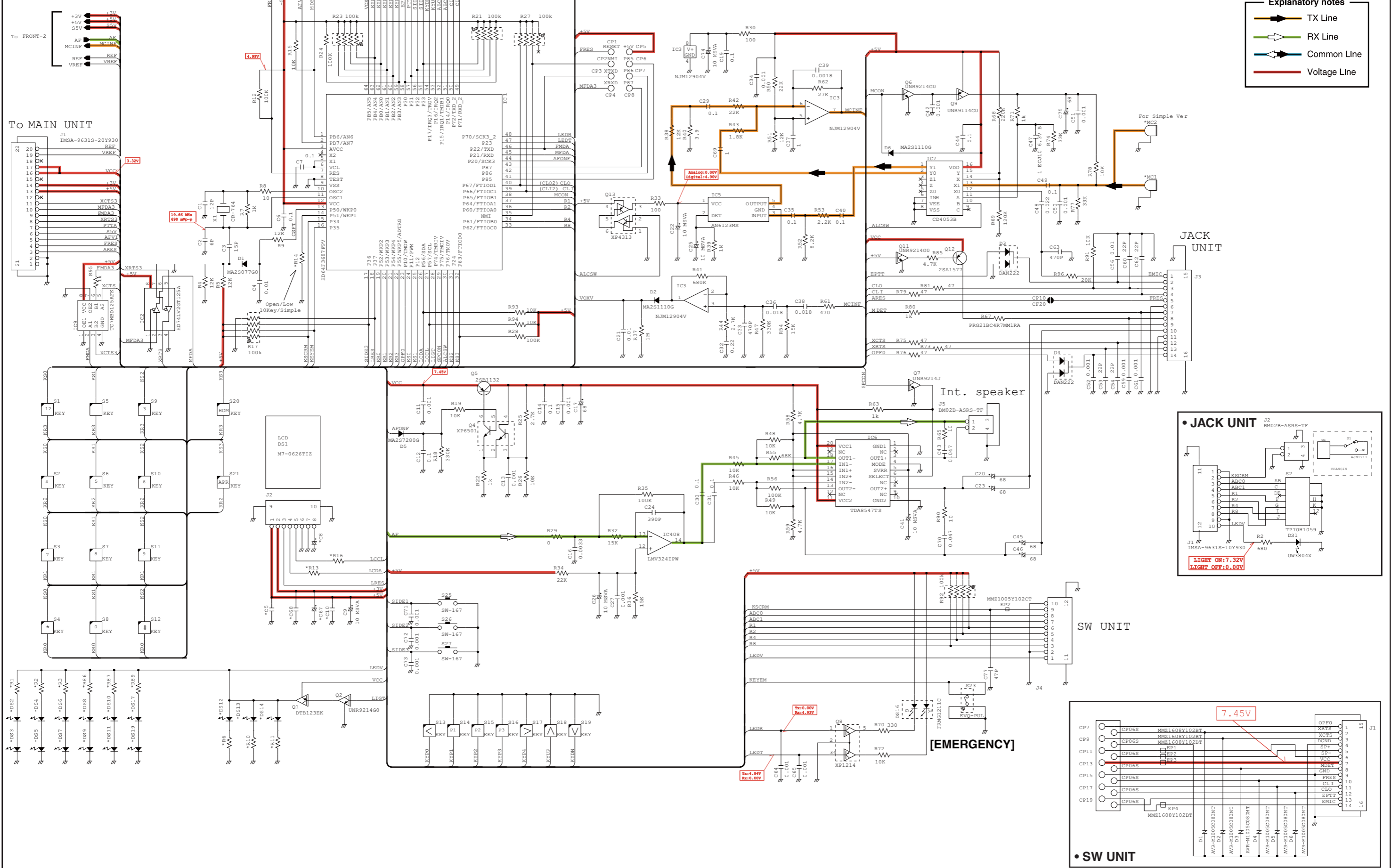


• VR UNIT  
(BOTTOM VIEW)



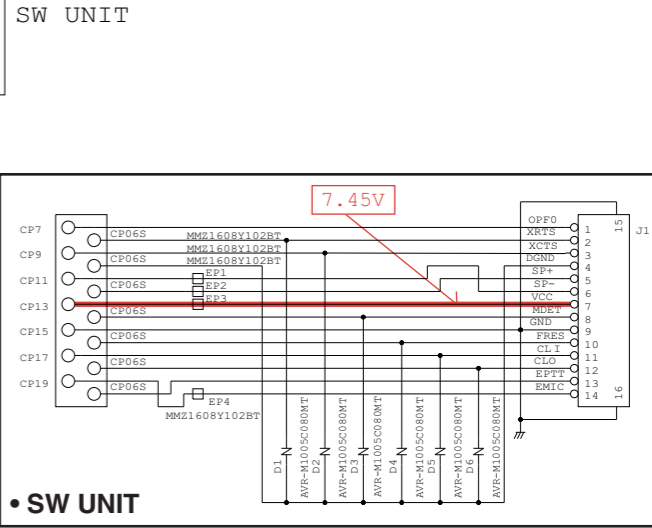
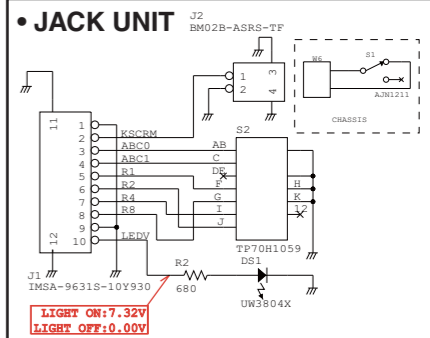
# VOLTAGE DIAGRAM

## FRONT UNIT (1/2)



**Explanatory notes**





- TX Line
- RX Line
- Common Line
- Voltage Line

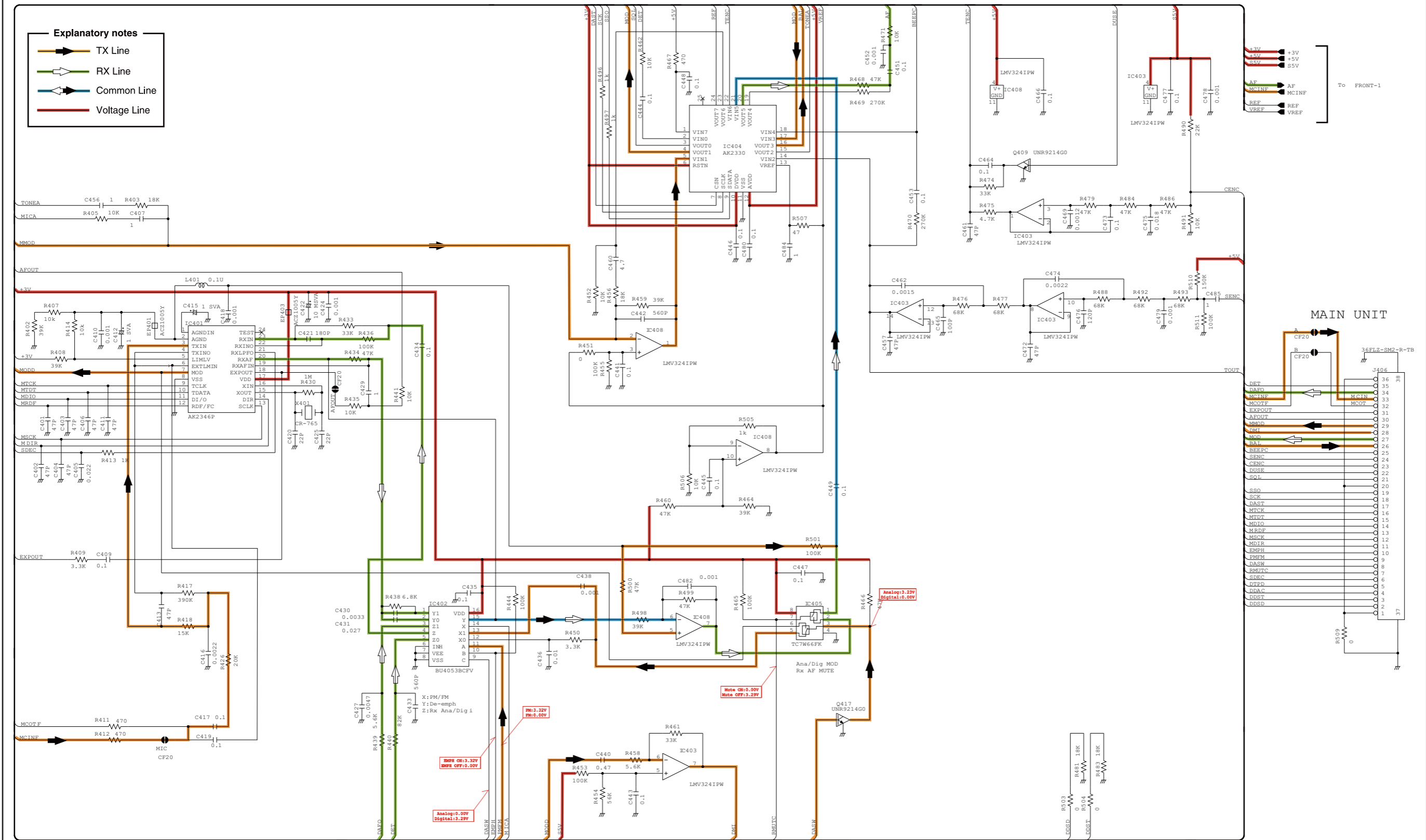


\*; Refer to "PARTS LIST."

• FRONT UNIT (2/2)

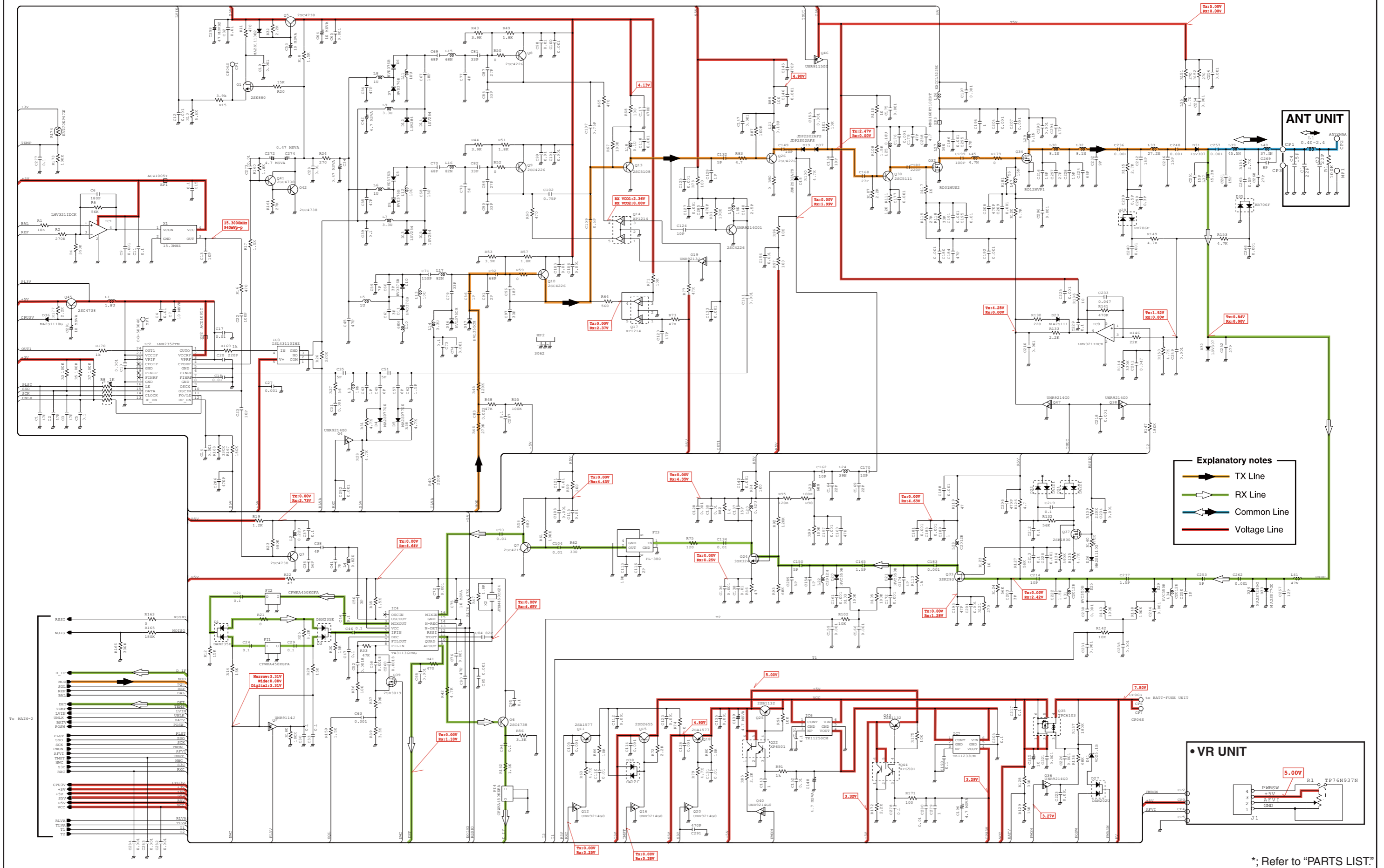
**Explanatory notes**

-  TX Line
-  RX Line
-  Common Line
-  Voltage Line



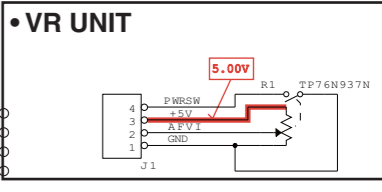
\*; Refer to "PARTS LIST."

• MAIN UNIT (1/3)



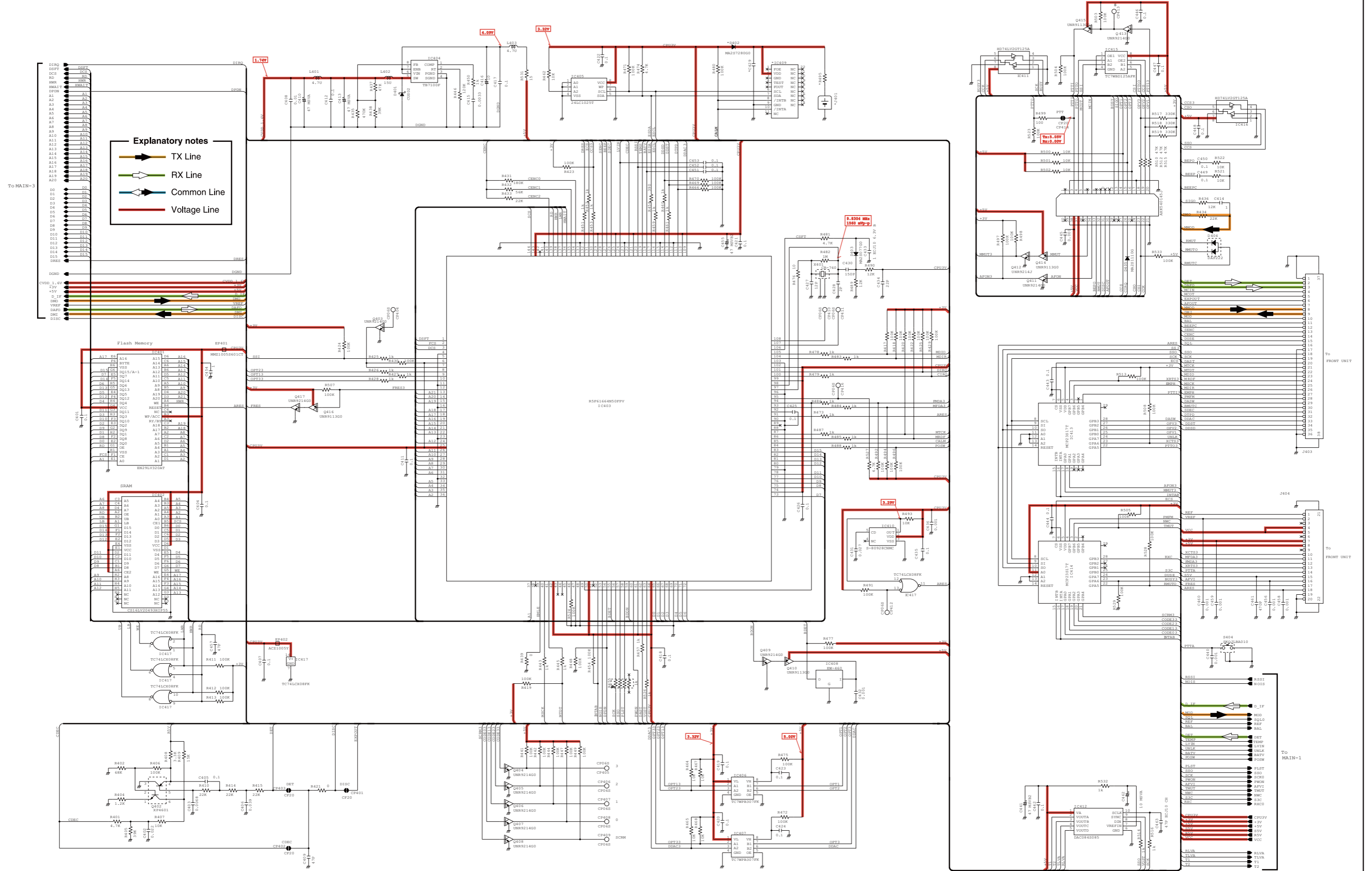
**Explanatory notes**

- ▶ TX Line
- ▶ RX Line
- ▶ Common Line
- ▶ Voltage Line



\*; Refer to "PARTS LIST."

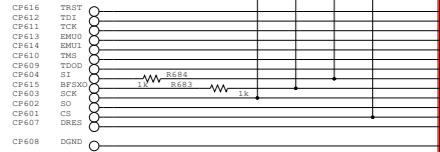
• MAIN UNIT (2/3)



\*; Refer to "PARTS LIST"

• MAIN UNIT (3/3)

DSP FLASH



PCSD: CHIP SELECT of the DSP for the Flash memory.  
TDD0: IEEE Standard 1149.1 test data output.

DSP

IC604  
TMS320VC5510AZGWR1

A/D

IC605  
AD7476ARTZ

CLOCK

IC602  
NIM2115V

LINEAR CODEC

IC603  
AK4154V

**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line

\*, Refer to "PARTS LIST."

Feb 2009



# SERVICE MANUAL ADDENDUM

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## IC-F9011B IC-F9011T IC-F9011S

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PARTS LIST

[MAIN UNIT]

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains component list for the main unit.

[MAIN UNIT]

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains component list for the main unit.

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
L402	6200012090	S.COI CDRH2D18HP-150NC	T	3/27
L403	6200007830	S.COI ELJFC 4R7K-F	B	2.2/20.8
R1	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	64.7/21.2
R2	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	67.2/21.1
R3	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	71.2/18.3
R4	7030006610	S.RES ERJ2GEJ 394 X (390K)	B	68.2/21.1
R5	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	70.7/18.2
R6	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	67.2/19.4
R7	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	73.1/17.6
R8	7410001130	S.ARR EXB28V102JX	B	73.7/18
R11	7030005000	S.RES ERJ2GEJ 471 X (470)	B	80.5/10.9
R12	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	69.5/33.2
R13	7030006020	S.RES RR0510P-682-D (6.8K)	B	81.8/12.6
R14	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	70/36
R15	7030011000	S.RES RR0510P-392-D (3.9K)	B	83/12.1
R16	7030005000	S.RES ERJ2GEJ 471 X (470)	T	78.7/16.3
R17	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	84.5/21.1
R18	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	87.7/12.1
R19	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	B	69.6/32.4
R20	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	84.6/11.3
R21	7030010040	S.RES ERJ2GEJ-JPW	T	72.6/34
R22	7030004970	S.RES ERJ2GEJ 470 X (47)	T	82.2/34.5
R23	7030007060	S.RES ERJ2GEJ 684X (680K)	B	68.6/28.8
R24	7030008280	S.RES ERJ2GEJ 271 X (270)	B	85.6/11.3
R25	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	74.8/34.6
R26	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	103.1/13.4
R27	7030005580	S.RES ERJ2GEJ 560 X (56)	B	84.4/26
R28	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	88.6/21.1
R29	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	78.2/34.1
R30	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	76.8/31.7
R31	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	88.1/23.3
R32	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	94.7/20.2
R33	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	74/35
R35	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	73.7/31.3
R36	7030004980	S.RES ERJ2GEJ 101 X (100)	B	72.2/33.3
R37	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	71.1/36.3
R38	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	89.6/23.3
R39	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	71.1/35.1
R40	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	93.3/14.2
R41	7030005000	S.RES ERJ2GEJ 471 X (470)	B	81.1/36.3
R42	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	79.3/31.2
R43	7030011000	S.RES RR0510P-392-D (3.9K)	T	103.8/24
R44	7030011000	S.RES RR0510P-392-D (3.9K)	T	99.9/19.5
R45	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	92.3/20.8
R46	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	90.7/18.7
R47	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	78.4/36.3
R48	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	92.2/20.8
R49	7030008340	S.RES RR0510P-182-D (1.8K)	T	101.1/24
R50	7030010040	S.RES ERJ2GEJ-JPW	T	103.8/25.7
R51	7030008340	S.RES RR0510P-182-D (1.8K)	T	95.5/21.1
R52	7030010040	S.RES ERJ2GEJ-JPW	T	99/21.1
R53	7030011000	S.RES RR0510P-392-D (3.9K)	T	87.8/21.3
R55	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	90.6/20.8
R56	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	77.4/29.8
R57	7030008340	S.RES RR0510P-182-D (1.8K)	T	88.1/22.7
R58	7030005010	S.RES ERJ2GEJ 681 X (680)	B	84.7/32.9
R59	7030010040	S.RES ERJ2GEJ-JPW	T	88.1/23.6
R60	7030005000	S.RES ERJ2GEJ 471 X (470)	T	98.4/24
R61	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	85.6/32.9
R62	7030007280	S.RES ERJ2GEJ 331 X (330)	T	86.5/35
R63	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	96.5/42.1
R64	7030008370	S.RES ERJ2GEJ 561 X (560)	T	89.5/25.9
R65	7030005000	S.RES ERJ2GEJ 471 X (470)	T	100.1/26.2
R66	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	99.4/40
R67	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	92.9/26.2
R68	7030004980	S.RES ERJ2GEJ 101 X (100)	T	92.5/27.4
R69	7030004980	S.RES ERJ2GEJ 101 X (100)	B	83.8/34.5
R71	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	90.6/30.5
R72	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	113.7/33.4
R73	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	85.5/32.3
R74	7030010040	S.RES ERJ2GEJ-JPW	T	107.8/43.1
R75	7030005710	S.RES ERJ2GEJ 121 X (120)	B	96/37.4
R77	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	102.3/25.1
R78	7030004980	S.RES ERJ2GEJ 101 X (100)	B	91.4/27.6
R79	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	104.9/45
R80	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	105.8/45
R81	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	92.8/28.1
R82	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	90.3/36.3
R83	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	B	95.2/30.5
R84	7030004980	S.RES ERJ2GEJ 101 X (100)	B	93.8/39.4
R85	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	124.5/41.6
R86	7030004970	S.RES ERJ2GEJ 470 X (47)	B	96/40.7
R87	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	96.4/30
R89	7030004980	S.RES ERJ2GEJ 101 X (100)	B	97.8/27.3
R90	7030010040	S.RES ERJ2GEJ-JPW	B	96.4/32.6
R91	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	124.4/39
R92	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	98.5/37.2
R93	7030005070	S.RES ERJ2GEJ 683 X (68K)	T	98.5/35.6
R94	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	129.4/43.7
R95	7030005310	S.RES ERJ2GEJ 124 X (120K)	B	100/38.2
R96	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	99.7/34.2
R97	7030004980	S.RES ERJ2GEJ 101 X (100)	B	99.7/35.6
R98	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	98.8/38.7
R99	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	98.8/39.6
R100	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	101.7/31
R101	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	103.9/34.2
R102	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	105.6/40
R103	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	104.7/39.1
R105	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	106.1/37.9
R107	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	102.2/35.9
R108	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	104.9/37.2
R110	7030005530	S.RES ERJ2GEJ 100 X (10)	B	104.9/38.2

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R111	7030003330	S.RES ERJ3GEYJ 121 V (120)	B	101.9/36.9
R113	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	109.4/35.9
R115	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	111.4/38.3
R117	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	109.3/36.4
R118	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	110.5/38.3
R119	7030004970	S.RES ERJ2GEJ 470 X (47)	T	113.3/40
R120	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	117.4/27.8
R121	7030008280	S.RES ERJ2GEJ 271 X (270)	T	112.3/35.2
R123	7030005530	S.RES ERJ2GEJ 100 X (10)	T	116/38.9
R124	7030005720	S.RES ERJ2GEJ 563 X (56K)	T	116/36.1
R126	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	T	116.3/40.5
R127	7030005720	S.RES ERJ2GEJ 563 X (56K)	T	116.9/38.9
R128	7030005981	S.RES ERA3YED 333V (33K)	T	57.9/37.3
R129	7030005451	S.RES ERA3YED 153V (15K)	T	58.7/34.2
R130	7030004990	S.RES ERJ2GEJ 221 X (220)	B	120.4/30.3
R132	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	113.8/42.2
R133	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	119.6/28.2
R134	7030006610	S.RES ERJ2GEJ 394 X (390K)	B	112.2/41.3
R135	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	115.8/37.5
R136	7030005530	S.RES ERJ2GEJ 100 X (10)	B	123.3/29.1
R137	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	129.3/35.2
R138	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	129.9/38.3
R139	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	117.9/38.3
R140	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	117/38.3
R141	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	119.6/26.6
R142	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	122.5/37.9
R143	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	121.3/38.4
R144	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	124.3/26.3
R145	7030009140	S.RES ERJ2GEJ 273 X (27K)	B	114.3/14.1
R146	7030005220	S.RES ERJ2GEJ 222 X (22K)	B	119.8/24.7
R147	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	123.7/21.9
R148	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	122.5/35.2
R149	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	120.1/14.9
R150	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	121.1/24.3
R151	7030003370	S.RES ERJ3GEYJ 271 V (270)	T	117.6/18.6
R152	7030003370	S.RES ERJ3GEYJ 271 V (270)	T	119.1/18.6
R153	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	121.4/14.5
R154	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	B	128.2/15
R159	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	69.3/35.1
R160	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	85.4/20.2
R161	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	86.6/15.8
R162	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	69.3/27.9
R163	7030010040	S.RES ERJ2GEJ-JPW	T	83.5/32.1
R165	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	80.7/29.6
R166	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	82.3/29.6
R167	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	82.3/16
R168	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	80.9/15.5
R169	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	83.7/24.1
R170	7030005102	S.RES ERJ2GEJ 102 X (1K)	B	75.8/25.1
R171	7030004980	S.RES ERJ2GEJ 101 X (100)	T	74.2/19.2
R172	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	70.9/23.5
R173	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	56.9/26.6
R174	7510001730	S.THE ERTJ OEP 473J	B	52.1/41.2
R175	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	74.2/20.1
R176	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	81.8/29.5
R177	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	72.3/27.3
R179	7030010040	S.RES ERJ2GEJ-JPW	B	114.5/28.9
R180	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	72.1/32.1
R181	7030005580	S.RES ERJ2GEJ 560 X (56)	B	115.8/29.3
R401	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	67.9/36.8
R402	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	63.7/32.8
R404	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	B	67.1/30.5
R405	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	67.7/32.4
R406	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	63.7/34.4
R407	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	67.3/33.6
R408	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	62.8/34.4
R409	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	67.3/35.2
R410	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	65.5/36.3
R411	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	23.7/24.8
R412	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	23.7/23.7
R413	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	22.5/20.7
R414	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	66/37.7
R415	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	66/38.6
R417	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	25.6/39.1
R418	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	25.6/37.6
R419	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	48.4/14.8
R420	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	26/29.2
R421	7030010040	S.RES ERJ2GEJ-JPW	T	39/39.6
R422	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	26/28.3
R423	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R449	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	56.2/24.5
R450	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	1.8/19.6
R451	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	43.7/43.8
R452	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	41.6/43.3
R453	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	42.8/40.5
R454	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	43.7/19.9
R455	7410001130	S.ARR EXB28V102JX	B	39.3/13.6
R457	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	36.4/17.2
R458	7030009280	S.RES ERJ2GEJ 391 X	B	35.7/44.4
R459	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	34.5/43.4
R460	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	32.8/43.8
R461	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	33.1/39.3
R462	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	49.2/22.8
R464	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	37.4/36
R465	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	37.3/32.8
R466	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	28/41
R467	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	39.2/36
R468	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	37.9/34.2
R469	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	33.8/38.1
R470	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	33.7/43.6
R471	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	50/12.3
R472	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	34.4/29.3
R473	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.7/30.8
R474	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	48.4/12.3
R475	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	32/33.6
R476	7030005530	S.RES ERJ2GEJ 100 X (10)	T	18.8/40.7
R477	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	50/16.5
R478	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.2/39.1
R479	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.3/35.9
R480	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	48.4/11.4
R481	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	25.9/40.2
R482	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	18.5/38.3
R483	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.2/37.6
R484	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.7/32.6
R485	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.7/28.3
R486	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.7/33.5
R487	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.7/29.2
R488	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.2/25.8
R489	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	16.7/39.2
R490	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	17.1/40.7
R491	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	29.8/22.2
R492	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	26.8/34.7
R493	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	30.1/19.5
R494	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	25.6/34.4
R495	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	54.3/11.9
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[F9011S] [F9011T]	
R496	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	56.8/35
R497	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	25.2/33.2
R498	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	53.1/8.6
R499	7030004980	S.RES ERJ2GEJ 101 X (100)	T	32.2/39.7
R500	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	30.1/33
R501	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	30.5/31.8
R502	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	29.6/31.8
R503	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	30.5/15.9
R504	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	27.4/16.3
R505	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	31.2/8.4
R507	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	56.7/35.1
R508	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	54.4/6.4
R510	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	31.2/28.6
R512	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	30.3/28.6
R513	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	43.5/8.4
R514	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	102.3/44
R515	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	29.4/28.6
R516	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	102.3/45
R517	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	31.2/26.9
R518	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	30.3/26.9
R519	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	29.4/26.9
R521	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	38.3/38.1
R522	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	35.4/38.2
R523	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	30.9/36.7
R524	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	45.3/16.9
R525	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	24.1/16.2
R526	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	53.7/24.4
R527	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	26.3/42.1
R528	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	28.6/9.1
R529	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	23.6/10.3
R531	7030005300	S.RES ERJ2GEJ 150 X (15)	B	2.2/18.2
R532	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	106.4/41.6
R533	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	23.1/13.1
R602	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	15.5/29.2
R603	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	17.3/29.2
R604	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	14.6/29.2
R605	7030004970	S.RES ERJ2GEJ 470 X (47)	T	7.5/39.7
R606	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	12.8/29.2
R607	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	9.9/39.7
R609	7030004980	S.RES ERJ2GEJ 101 X (100)	T	11.1/39.7
R610	7030005240	S.RES ERJ2GEJ 473 X (47K)	C	8.7/40.5
R611	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	9.9/41
R612	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	21.2/27.3
R613	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	19.7/27.3
R614	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	23.4/28.5
R615	7030004970	S.RES ERJ2GEJ 470 X (47)	B	13.5/43.5
R616	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	12.4/22.7
R618	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	22.8/41.6
R621	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	17/29.5
R622	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	19.5/42.1
R623	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.7/23.2
R624	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	6.8/34
R626	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	11.6/40.6
R627	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	18.3/40.6
R628	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	22.9/40.7
R629	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	20.1/29.5
R630	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.5/25.1
R631	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.4/32.4

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REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R632	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	5.5/15
R633	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	24.3/33.5
R634	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.4/34.2
R635	7030004980	S.RES ERJ2GEJ 101 X (100)	B	6.6/9.9
R636	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.4/36.4
R637	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	5.4/11.8
R638	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	2.2/11.8
R639	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.4/26.9
R640	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	3.8/13.3
R641	7030010040	S.RES ERJ2GEJ-JPW	B	24.4/25.1
R642	7030010040	S.RES ERJ2GEJ-JPW	T	18.6/29.7
R643	7030004980	S.RES ERJ2GEJ 101 X (100)	B	13.3/7.8
R644	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	11.3/20.4
R646	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	22.4/10.1
R647	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	12.2/20.2
R648	7030004980	S.RES ERJ2GEJ 101 X (100)	B	10.6/9
R649	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	12.2/16.9
R650	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	13.6/17.3
R651	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	16.4/14.9
R652	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	21.2/19.8
R654	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	20.3/19.8
R655	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	19.1/20.5
R656	7030004980	S.RES ERJ2GEJ 101 X (100)	B	13.6/18.3
R657	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	13.6/16.4
R658	7030009710	S.RES ERJ2GEJ 202 X (20K)	B	16.8/13.7
R659	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	16.8/12.8
R660	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	B	23.7/21.6
R661	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	B	22.8/21.6
R662	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	16.4/11.6
R663	7030004980	S.RES ERJ2GEJ 101 X (100)	B	9/8.1
R664	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	16.4/6.1
R665	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	16.4/5.2
R667	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	16.4/4.3
R668	7030004970	S.RES ERJ2GEJ 470 X (47)	B	22.5/19.4
R669	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	8/4.9
R670	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	24.8/16.5
R671	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	20.5/14.6
R672	7030004980	S.RES ERJ2GEJ 101 X (100)	B	14/5.4
R673	7030004980	S.RES ERJ2GEJ 101 X (100)	B	17.9/17.4
R674	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	23.2/16.8
R675	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	B	22.6/14.6
R676	7030004980	S.RES ERJ2GEJ 101 X (100)	B	21.4/14.6
R677	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.9/21.9
R678	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.2/21
R679	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	15.9/8
R680	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	17.6/23.2
R681	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	18.6/28.8
R683	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	18.6/31.5
R684	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	14.5/31.2
C1	4030017420	S.CER ECJ0EC1H470J	B	70.7/20
C2	4030017420	S.CER ECJ0EC1H470J	B	72.3/19.3
C3	4030017420	S.CER ECJ0EC1H470J	B	68.2/17.8
C4	4030016790	S.CER ECJ0EB1C103K	B	74.4/23.9
C5	4030016930	S.CER ECJ0EB1A104K	T	74/17.6
C6	4030017710	S.CER ECJ0EC1H181J	B	68.2/19.4
C7	4550006250	S.TAN TEESVA 1A 106M8R	B	71.2/22.2
C9	4030017460	S.CER ECJ0EB1E102K	B	64.2/17.1
C10	4030017460	S.CER ECJ0EB1E102K	B	74.4/22.2
C11	4030016930	S.CER ECJ0EB1A104K	B	64.2/16.1
C12	4030017460	S.CER ECJ0EB1E102K	B	80.7/39.2
C13	4030017620	S.CER ECJ0EC1H100C	B	72/14.2
C14	4030017460	S.CER ECJ0EB1E102K	B	61.8/14.8
C15	4030016930	S.CER ECJ0EB1A104K	B	83.5/14.6
C17	4030016790	S.CER ECJ0EB1C103K	T	76.8/27.5
C18	4030016790	S.CER ECJ0EB1C103K	B	83.3/19.9
C19	4030017460	S.CER ECJ0EB1E102K	B	80.5/39.7
C20	4030017440	S.CER ECJ0EC1H221J	B	83.7/22.8
C21	4030016930	S.CER ECJ0EB1A104K	T	69.1/34.8
C22	4030017430	S.CER ECJ0EC1H101J	T	80.6/17.1
C23	4030017620	S.CER ECJ0EC1H100C	T	80/19.8
C24	4030016930	S.CER ECJ0EB1A104K	T	72.6/35
C27	4030017460	S.CER ECJ0EB1E102K	B	103.1/17.9
C28	4030016790	S.CER ECJ0EB1C103K	B	86.5/11.3
C29	4030016930	S.CER ECJ0EB1A104K	T	78.2/35
C30	4030016930	S.CER ECJ0EB1A104K	T	73.3/31.6
C31	4030017460	S.CER ECJ0EB1E102K	B	84.4/27.7
C32	4030016790	S.CER ECJ0EB1C103K	B	95.8/18.2
C33	4030016930	S.CER ECJ0EB1A104K	T	73.9/29.6
C34	4550003250	S.TAN TEESVA 1V 47M8R	B	86.7/8.9
C35	4030017380</			

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REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C61	4030017360	S.CER ECJ0EC1H030B	T	89.5/12.4
C62	4030017550	S.CER ECJ0EC1H1R5B	B	90.5/26
C63	4030017460	S.CER ECJ0EB1E102K	B	70.2/35.1
C64	4550006250	S.TAN TEESVA 1A 106M8R	B	100.1/22.3
C65	4030017460	S.CER ECJ0EB1E102K	B	99/20.3
C66	4030017460	S.CER ECJ0EB1E102K	B	81.1/37.2
C67	4030017390	S.CER ECJ0EC1H180J	T	102.9/17
C68	4030017640	S.CER ECJ0EC1H150J	T	96.4/16.9
C69	4030017510	S.CER ECJ0EC1H680J	T	103.8/17
C70	4030017510	S.CER ECJ0EC1H680J	T	94.8/16.9
C71	4030017700	S.CER ECJ0EC1H151J	T	89.8/15.3
C72	4030017460	S.CER ECJ0EB1E102K	B	73.7/32.2
C73	4030016930	S.CER ECJ0EB1A104K	B	92.4/13.3
C74	4030017460	S.CER ECJ0EB1E102K	B	92.9/15.9
C75	4550006250	S.TAN TEESVA 1A 106M8R	B	71.9/41.4
C76	4030017460	S.CER ECJ0EB1E102K	B	83.3/32
C77	4030017570	S.CER ECJ0EC1H040B	T	101.6/22.6
C78	4030017380	S.CER ECJ0EC1H050B	T	99.4/18.1
C79	4030017660	S.CER ECJ0EC1H330J	T	90.7/20.9
C80	4030017420	S.CER ECJ0EC1H470J	T	80.8/31.7
C81	4030017660	S.CER ECJ0EC1H330J	T	103.2/22.6
C82	4030017660	S.CER ECJ0EC1H330J	T	99/19.5
C83	4030016970	S.CER ECJ0EB1C223K	B	92/19.6
C84	4030017680	S.CER ECJ0EC1H20J	B	82.9/34.5
C85	4030017460	S.CER ECJ0EB1E102K	T	82.2/31.7
C86	4030017340	S.CER ECJ0EC1H010B	T	90.7/21.8
C87	4030017650	S.CER ECJ0EC1H270J	T	102.9/24
C88	4030017660	S.CER ECJ0EC1H330J	T	102/24
C89	4030017650	S.CER ECJ0EC1H270J	T	99.9/21.1
C90	4030017660	S.CER ECJ0EC1H330J	T	99.5/22.6
C91	4030017350	S.CER ECJ0EC1H020B	T	89.1/20.9
C92	4030017510	S.CER ECJ0EC1H680J	T	89.1/21.8
C93	4030016790	S.CER ECJ0EB1C103K	B	83.3/30.7
C94	4030016930	S.CER ECJ0EB1A104K	T	70.9/27.9
C95	4030016930	S.CER ECJ0EB1A104K	T	80.8/29.5
C96	4030017390	S.CER ECJ0EC1H180J	T	88.1/24.5
C97	4030017660	S.CER ECJ0EC1H330J	T	88.1/25.4
C98	4030016790	S.CER ECJ0EB1C103K	T	99.3/24
C99	4030016790	S.CER ECJ0EB1C103K	T	95.5/22.9
C100	4030017460	S.CER ECJ0EB1E102K	T	100.2/24
C101	4030017460	S.CER ECJ0EB1E102K	T	94.9/22
C102	4030017540	S.CER ECJ0EC1HR75B	T	97.5/24
C103	4030016790	S.CER ECJ0EB1C103K	T	92.3/22.8
C104	4030016790	S.CER ECJ0EB1C103K	B	86.5/32.9
C105	4030017460	S.CER ECJ0EB1E102K	T	95.6/39.8
C106	4030017460	S.CER ECJ0EB1E102K	T	92.3/23.7
C107	4030017540	S.CER ECJ0EC1HR75B	T	98.9/25.9
C108	4030017460	S.CER ECJ0EB1E102K	B	85.6/34.5
C109	4030017530	S.CER ECJ0EC1HR5B	T	92.5/24.9
C110	4030016790	S.CER ECJ0EB1C103K	T	95.6/42.1
C112	4030017460	S.CER ECJ0EB1E102K	T	101.2/40.6
C113	4030017390	S.CER ECJ0EC1H180J	T	92.2/39
C114	4030017460	S.CER ECJ0EB1E102K	T	116.6/29.4
C115	4030016790	S.CER ECJ0EB1C103K	B	84.7/34.5
C116	4030017350	S.CER ECJ0EC1H020B	T	90.6/39
C117	4030017730	S.CER ECJ0EB1E471K	T	92/26.2
C118	4030017460	S.CER ECJ0EB1E102K	T	93.8/26.2
C120	4030017420	S.CER ECJ0EC1H470J	T	86.8/31.3
C121	4030016790	S.CER ECJ0EB1C103K	B	84.7/35.8
C123	4030017460	S.CER ECJ0EB1E102K	T	111.9/32.7
C124	4030017620	S.CER ECJ0EC1H100C	B	95.2/28.5
C125	4030017460	S.CER ECJ0EB1E102K	B	91.4/29.2
C126	4030017460	S.CER ECJ0EB1E102K	T	110.1/45
C127	4030017460	S.CER ECJ0EB1E102K	B	92.8/27.2
C128	4030017460	S.CER ECJ0EB1E102K	B	91.2/37.9
C129	4030017340	S.CER ECJ0EC1H010B	B	96.9/26.5
C130	4030016790	S.CER ECJ0EB1C103K	B	90.3/37.9
C131	4030016790	S.CER ECJ0EB1C103K	T	104/45
C132	4030017380	S.CER ECJ0EC1H050B	B	95.2/29.4
C133	4030017460	S.CER ECJ0EB1E102K	B	101.4/28.6
C134	4030016790	S.CER ECJ0EB1C103K	B	94.8/35.1
C135	4030017460	S.CER ECJ0EB1E102K	T	110.1/44.1
C136	4030017460	S.CER ECJ0EB1E102K	B	96/39.8
C137	4030017640	S.CER ECJ0EC1H150J	B	91.2/36.3
C138	4030016790	S.CER ECJ0EB1C103K	B	96/38.9
C139	4550005980	S.TAN TEESVA 1A 475M8R	B	125.1/43.1
C140	4030017560	S.CER ECJ0EC1H2R5B	B	93.2/26
C141	4030017460	S.CER ECJ0EB1E102K	B	91.4/26
C142	4030017460	S.CER ECJ0EB1E102K	B	94.7/40.3
C143	4030018860	S.CER ECJ0EB0J105K	T	123.9/39.9
C145	4030017730	S.CER ECJ0EB1E471K	B	96.9/24.8
C146	4030017460	S.CER ECJ0EB1E102K	B	97.8/25.3
C147	4030017460	S.CER ECJ0EB1E102K	B	98.1/28.5
C148	4550005980	S.TAN TEESVA 1A 475M8R	B	123.6/39.3
C149	4030017620	S.CER ECJ0EC1H100C	B	100.5/31.5
C150	4030017380	S.CER ECJ0EC1H050B	T	100.3/36.7
C151	4030016930	S.CER ECJ0EB1A104K	B	126/35.2
C152	4030016790	S.CER ECJ0EB1C103K	B	122.8/37.8
C154	4030017570	S.CER ECJ0EC1H040B	T	100.8/37.9
C155	4030017460	S.CER ECJ0EB1E102K	B	105.5/34.2
C156	4030017460	S.CER ECJ0EB1E102K	B	99.7/36.5
C157	4030017460	S.CER ECJ0EB1E102K	B	98.8/41.4
C158	4030017620	S.CER ECJ0EC1H100C	B	101.8/34.7
C159	4030017460	S.CER ECJ0EB1E102K	T	106.8/40.3
C160	4030017420	S.CER ECJ0EC1H470J	B	98.8/40.5
C161	4030017460	S.CER ECJ0EB1E102K	T	104.3/37.9
C162	4030017620	S.CER ECJ0EC1H100C	B	98.5/36.9
C164	4030017400	S.CER ECJ0EC1H220J	B	98/35.7
C165	4030017550	S.CER ECJ0EC1H1R5B	T	106.1/35.4
C166	4030017460	S.CER ECJ0EB1E102K	T	106.1/38.8
C168	4030017650	S.CER ECJ0EC1H270J	B	102.7/34.7
C169	4030017400	S.CER ECJ0EC1H220J	B	98.1/33.3
C170	4030017620	S.CER ECJ0EC1H100C	B	99.7/33.3
C172	4030017460	S.CER ECJ0EB1E102K	T	107.5/38.4

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C174	4030017570	S.CER ECJ0EC1H040B	T	108.5/35.9
C175	4030017460	S.CER ECJ0EB1E102K	B	103.7/38.5
C176	4030017460	S.CER ECJ0EB1E102K	B	105.5/39.4
C177	4030017460	S.CER ECJ0EB1E102K	B	102.5/38
C179	4030017420	S.CER ECJ0EC1H470J	B	104.6/39.4
C180	4030017460	S.CER ECJ0EB1E102K	B	109.3/35.2
C181	4030017460	S.CER ECJ0EB1E102K	T	109.3/39
C182	4030017440	S.CER ECJ0EC1H221J	B	108.1/36
C183	4030017460	S.CER ECJ0EB1E102K	T	110.7/35.5
C184	4030017420	S.CER ECJ0EC1H470J	B	112.6/39.3
C185	4030017460	S.CER ECJ0EB1E102K	T	111.7/39.7
C186	4030017460	S.CER ECJ0EB1E102K	B	117.3/33.6
C188	4030017460	S.CER ECJ0EB1E102K	T	114.2/40.9
C189	4030017490	S.CER C1608 JB 1A 105K-T	T	109.2/37.9
C190	4030016930	S.CER ECJ0EB1A104K	T	81.8/22.4
C191	4030017460	S.CER ECJ0EB1E102K	B	109.6/38.3
C192	4030017460	S.CER ECJ0EB1E102K	B	112.6/40.2
C193	4030017420	S.CER ECJ0EC1H470J	T	113.9/36.1
C195	4030016790	S.CER ECJ0EB1C103K	B	108.7/38.3
C196	4550005980	S.TAN TEESVA 1A 475M8R	T	84.4/25.1
C197	4030017460	S.CER ECJ0EB1E102K	T	117.9/22.3
C198	4030017490	S.CER C1608 JB 1A 105K-T	T	114.1/26.7
C199	4030017430	S.CER ECJ0EC1H101J	B	114.5/32.1
C201	4030017460	S.CER ECJ0EB1E102K	T	113.9/35.2
C203	4030017360	S.CER ECJ0EC1H030B	T	116.9/36.1
C204	4030017460	S.CER ECJ0EB1E102K	T	114.7/22.3
C205	4030016930	S.CER ECJ0EB1A104K	T	78.9/27.4
C206	4030017730	S.CER ECJ0EB1E471K	T	115.1/40.9
C207	4030017460	S.CER ECJ0EB1E102K	T	114.7/21.4
C208	4030017730	S.CER ECJ0EB1E471K	B	117.4/29.7
C209	4030017460	S.CER ECJ0EB1E102K	B	117.4/28.8
C210	4030017460	S.CER ECJ0EB1E102K	B	118.7/26.6
C212	4030016930	S.CER ECJ0EB1A104K	B	116/43.1
C213	4030016930	S.CER ECJ0EB1A104K	B	113.9/39.3
C214	4030017620	S.CER ECJ0EC1H100C	T	116.5/37.3
C215	4510008540	S.ELE EEE1CA100SR	B	122.9/34.4
C216	4030007040	S.CER C1608 CH 1H 180J-T	B	108.4/20.6
C217	4030016930	S.CER ECJ0EB1A104K	B	127.6/35.2
C218	4030017460	S.CER ECJ0EB1E102K	B	121.2/22.8
C219	4030016930	S.CER ECJ0EB1A104K	B	113.8/41.3
C220	4030017460	S.CER ECJ0EB1E102K	B	112.2/42.2
C221	4030017460	S.CER ECJ0EB1E102K	B	125.4/37
C222	4030017550	S.CER ECJ0EC1H1R5B	T	117.8/37.7
C223	4030017460	S.CER ECJ0EB1E102K	B	129.9/39.5
C224	4030007110	S.CER C1608 CH 1H 680J-T	B	108.4/16.9
C225	4030017460	S.CER ECJ0EB1E102K	B	123.7/30.3
C226	4030017460	S.CER ECJ0EB1E102K	B	130.2/36.1
C228	4030007030	S.CER C1608 CH 1H 150J-T	B	108.2/14.8
C229	4030016930	S.CER ECJ0EB1A104K	B	124.3/28.1
C230	4030017460	S.CER ECJ0EB1E102K	T	120.7/39.6
C231	4030017460	S.CER ECJ0EB1E102K	T	122.5/40
C232	4030007000	S.CER C1608 CH 1H 090D-T	B	111.4/11.9
C233	4030011810	S.CER C1608 JB 1A 224K-T	B	120.7/26.8
C234	4030017460	S.CER ECJ0EB1E102K	B	118.5/37.1
C236	4030017460	S.CER ECJ0EB1E102K	B	112.7/12.8
C237	4030017550	S.CER ECJ0EC1H1R5B	T	121.1/34.7
C238	4030017460	S.CER ECJ0EB1E102K	T	121.6/39.6
C239	4030017530	S.CER ECJ0EC1HOR5B	B	115.5/14.7
C240	4030017460	S.CER ECJ0EB1E102K	T	119.1/14.9
C241	4030016950	S.CER ECJ0EB1A473K	B	123.4/24.8
C242	4030007040	S.CER C1608 CH 1H 180J-T	B	113.4/11.1
C244	4030017460	S.CER ECJ0EB1E102K	T	123.6/32.4
C246	4030007030	S.CER C1608 CH 1H 150J-T	B	117.6/9.7
C248	4030017460	S.CER ECJ0EB1E102K	B	118.3/11.5
C249	4030017460	S.CER ECJ0EB1E102K	T	121/16.5
C250	4030017340	S.CER ECJ0EC1H010B	T	121.5/32.2
C251	4030007030	S.CER C1608 CH 1H 150J-T	B	124.9/14.9
C252	4030017650	S.CER ECJ0EC1H270J	T	122.7/19.8
C253	4030017380	S.CER ECJ0EC1H050B	T	121.8/28.7
C254	4030017460	S.CER ECJ0EB1E102K	B	118.5/15.5
C256	4030017460	S.CER ECJ0EB1E102K	T	119.6/20.4
C257	4030017460	S.CER ECJ0EB1E102K	B	122.9/12.8
C260	4030018080	S.CER ECJ0EB1H182K	B	72.7/36.3
C261	4030007030	S.CER C1608 CH 1H 150J-T	B	124.1/8.8
C262	4030017460	S.CER ECJ0EB1E102K	T	121.8/26
C265	4030017530	S.CER ECJ0EC1HOR5B	B	127.3/15.9
C266	4030017460	S.CER ECJ0EB1E102K	T	122.6/14.9
C267	4030017630	S.CER ECJ0EC1H120J	T	122.3/24.7
C268	4030007060	S.CER C1608 CH 1H 270J-T	B	129.2/12.8
C269	4030006990	S.CER C1608 CH 1H 080D-T	B	134.3/13.9
C272	4550005980	S.TAN TEESVA 1A 475M8R	B	88.2/17.4
C273	4030016790	S.CER ECJ0EB1C103K	B	85.4/19.2
C274	4550003250	S.TAN TEESVA 1V 474M8R	B	86.5/13.6
C277	4030016930	S.CER ECJ0EB1		

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
C401	4030016930	S.CER	ECJ0EB1A104K	T	46.3/29.1
C402	4030016970	S.CER	ECJ0EB1C223K	B	68.5/33.4
C403	4030017790	S.CER	ECJ0EB1E682K	B	66.4/36.3
C404	4030016930	S.CER	ECJ0EB1A104K	T	46.3/23.2
C405	4030016930	S.CER	ECJ0EB1A104K	B	64.5/36.3
C406	4030016940	S.CER	ECJ0EB1A393K	B	66/39.5
C407	4030016930	S.CER	ECJ0EB1A104K	T	31.1/18.4
C408	4030016790	S.CER	ECJ0EB1C103K	B	6/28.24
C409	4030017420	S.CER	ECJ0EC1H470J	T	39.3/43.7
C410	4550006970	S.TAN	TEESVA0G476M8R	T	4.1/33.9
C411	4030016930	S.CER	ECJ0EB1A104K	B	53/28.2
C412	4030016930	S.CER	ECJ0EB1A104K	T	5.7/28.1
C413	4550006970	S.TAN	TEESVA0G476M8R	T	1.8/33.9
C414	4030018860	S.CER	ECJ0EB0J105K	T	30.5/35.1
C415	4030017770	S.CER	ECJ0EB1E332K	T	2.3/18.4
C416	4550007030	S.TAN	TEESVP 0J 106M8R	B	2.2/25.1
C417	4030016930	S.CER	ECJ0EB1A104K	B	2.6/23
C418	4030016930	S.CER	ECJ0EB1A104K	T	32/18.4
C419	4030016930	S.CER	ECJ0EB1A104K	T	36.1/33.3
C420	4030016930	S.CER	ECJ0EB1A104K	T	37.9/30.8
C421	4030016930	S.CER	ECJ0EB1A104K	B	50.3/42.8
C422	4030016930	S.CER	ECJ0EB1A104K	T	51.9/11.3
C423	4030016930	S.CER	ECJ0EB1A104K	T	33.7/34.3
C424	4030016930	S.CER	ECJ0EB1A104K	T	35.3/29.3
C425	4030016930	S.CER	ECJ0EB1A104K	B	27.7/31.7
C426	4030016930	S.CER	ECJ0EB1A104K	B	27.9/22.1
C427	4030017630	S.CER	ECJ0EC1H20J	T	14.2/41.7
C428	4030017350	S.CER	ECJ0EC1H020B	T	16.7/37.6
C429	4030016930	S.CER	ECJ0EB1A104K	T	52.1/10.4
C430	4030017700	S.CER	ECJ0EC1H151J	T	17.6/38.3
C431	4030017030	S.CER	ECJ0EB1A273K	T	32.1/23.3
C432	4030017460	S.CER	ECJ0EB1E102K	B	46.2/16.9
C433	4030018860	S.CER	ECJ0EB0J105K	T	20.4/40.7
C434	4030017400	S.CER	ECJ0EC1H220J	T	16.5/41.9
C435	4030016930	S.CER	ECJ0EB1A104K	B	29.6/20.6
C436	4030017460	S.CER	ECJ0EB1E102K	B	27.7/34.7
C440	4030017460	S.CER	ECJ0EB1E102K	B	88.7/40.4
C441	4550006780	S.TAN	TEESVB2 0J 476M8R	T	2.7/12.6
C442	4030016930	S.CER	ECJ0EB1A104K	B	110.9/45
C443	4030016930	S.CER	ECJ0EB1A104K	B	43.4/10
C444	4030016930	S.CER	ECJ0EB1A104K	B	32.1/9.2
C445	4030017460	S.CER	ECJ0EB1E102K	T	20.1/38.5
C446	4030016930	S.CER	ECJ0EB1A104K	T	26.5/16.3
C447	4030016930	S.CER	ECJ0EB1A104K	B	34.6/15.3
C448	4030016930	S.CER	ECJ0EB1A104K	B	36.8/17.2
C449	4030016930	S.CER	ECJ0EB1A104K	T	37.4/38.1
C450	4030016930	S.CER	ECJ0EB1A104K	T	35.3/39.8
C451	4030016930	S.CER	ECJ0EB1A104K	B	36.8/44.3
C452	4030016930	S.CER	ECJ0EB1A104K	B	37.7/44.3
C453	4030016930	S.CER	ECJ0EB1A104K	B	38.8/44.3
C454	4030018860	S.CER	ECJ0EB0J105K	T	42.1/22.7
C455	4550006780	S.TAN	TEESVB2 0J 476M8R	T	45.9/18.4
C456	4030017460	S.CER	ECJ0EB1E102K	T	71.7/5.3
C457	4030017420	S.CER	ECJ0EC1H470J	B	46.7/44
C458	4030017460	S.CER	ECJ0EB1E102K	B	70.4/9.5
C459	4030017460	S.CER	ECJ0EB1E102K	B	57.2/13.2
C460	4030017460	S.CER	ECJ0EB1E102K	B	58.4/13
C461	4030017730	S.CER	ECJ0EB1E471K	T	72.6/5.3
C462	4550006250	S.TAN	TEESVA 1A 106M8R	B	103.4/41.4
C463	4030017420	S.CER	ECJ0EC1H470J	T	
C601	4030016790	S.CER	ECJ0EB1C103K	T	11/32.3
C602	4030016790	S.CER	ECJ0EB1C103K	T	7.3/40.9
C603	4030017380	S.CER	ECJ0EC1H050B	T	9.9/40.1
C604	4030016930	S.CER	ECJ0EB1A104K	T	11.5/40.9
C605	4030017460	S.CER	ECJ0EB1E102K	T	8.1/38
C606	4030016930	S.CER	ECJ0EB1A104K	T	8.5/41.8
C607	4030017620	S.CER	ECJ0EC1H100C	T	7.9/43.1
C608	4030018910	S.CER	C1608 JB 0J 475K-T	T	6.6/33.8
C609	4030018910	S.CER	C1608 JB 0J 475K-T	T	6.5/35.8
C610	4030016930	S.CER	ECJ0EB1A104K	T	13.5/44.4
C611	4030018910	S.CER	C1608 JB 0J 475K-T	B	3.8/15.4
C612	4030016930	S.CER	ECJ0EB1A104K	B	3.8/16.5
C614	4030016930	S.CER	ECJ0EB1A104K	B	3.8/14.3
C615	4030016930	S.CER	ECJ0EB1A104K	B	10.6/10.8
C616	4030016950	S.CER	ECJ0EB1A473K	B	8.3/10.8
C617	4030018860	S.CER	ECJ0EB0J105K	B	6.6/10.8
C618	4030016790	S.CER	ECJ0EB1C103K	T	5.7/31.5
C619	4030016930	S.CER	ECJ0EB1A104K	B	13.3/6.9
C620	4030018860	S.CER	ECJ0EB0J105K	T	5.7/30.5
C621	4030018860	S.CER	ECJ0EB0J105K	B	10.1/20.9
C623	4030016950	S.CER	ECJ0EB1A473K	B	10.6/9.9
C624	4030016790	S.CER	ECJ0EB1C103K	T	21.3/16.6
C625	4030017460	S.CER	ECJ0EB1E102K	B	20.9/10.5
C626	4030017460	S.CER	ECJ0EB1E102K	B	13.6/20.1
C627	4030018860	S.CER	ECJ0EB0J105K	B	12.2/18.5
C628	4030018860	S.CER	ECJ0EB0J105K	B	9/9
C629	4030016790	S.CER	ECJ0EB1C103K	B	16.4/16.7
C630	4030017420	S.CER	ECJ0EC1H470J	B	13.6/19.2
C631	4030016930	S.CER	ECJ0EB1A104K	B	18.2/14.9
C632	4030017420	S.CER	ECJ0EC1H470J	B	8.1/7.2
C633	4030017450	S.CER	ECJ0EB1E271K	B	18.5/13.7
C634	4030016930	S.CER	ECJ0EB1A104K	B	23.7/20
C635	4030017730	S.CER	ECJ0EB1E471K	B	17.3/11.6
C636	4030017460	S.CER	ECJ0EB1E102K	T	21.1/22.4
C637	4030016930	S.CER	ECJ0EB1A104K	B	23.2/22.8
C638	4030017680	S.CER	ECJ0EC1H820J	B	16.8/10.4
C639	4030017730	S.CER	ECJ0EB1E471K	B	22.5/20.3
C640	4030018910	S.CER	C1608 JB 0J 475K-T	T	22/24.5
C641	4030016930	S.CER	ECJ0EB1A104K	B	24.8/17.4
C642	4030016930	S.CER	ECJ0EB1A104K	B	19.6/5
C643	4030017590	S.CER	ECJ0EC1H070C	B	19.6/14.6
C644	4030016930	S.CER	ECJ0EB1A104K	B	17.9/16.5
C645	4030016930	S.CER	ECJ0EB1A104K	B	17.9/18.3

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
C646	4030016930	S.CER	ECJ0EB1A104K	B	23.2/15.9
C647	4030018910	S.CER	C1608 JB 0J 475K-T	B	17.9/19.4
C648	4030017460	S.CER	ECJ0EB1E102K	B	10.3/23
C649	4030018860	S.CER	ECJ0EB0J105K	B	16.4/41.6
C650	4030016930	S.CER	ECJ0EB1A104K	B	16.4/40.6
C651	4030018860	S.CER	ECJ0EB0J105K	B	16.9/22.2
C652	4030016930	S.CER	ECJ0EB1A104K	B	20.9/40.7
C653	4030018860	S.CER	ECJ0EB0J105K	B	11.2/41.8
C654	4030016930	S.CER	ECJ0EB1A104K	B	10/40.6
C655	4030017460	S.CER	ECJ0EB1E102K	B	10/41.5
J401	2610000500	S.CON	PB-614SS13-TF [F9011S]	T	60.2/12.9
J401	2610000500	S.CON	PB-614SS13-TF [F9011T]	T	
J402	6510026770	S.CON	AXK540147YG	T	25.1/34
J403	6510022221	S.CON	36FLZ-SM2-R-TB(LF)(SN)	T	34.7/9.2
J404	6510025242	S.CON	IMSA-9631S-20Y930	T	74.9/10.2
J601	6510026220	S.CON	AXK5F14547YG	T	12/6.8
S404	2260003120	SWI	SKQLJBA010		
BT1	3020000340	LIT	ML-614S/ZT [F9011S]		
BT1	3020000340	LIT	ML-614S/ZT [F9011T]		
EP1	6910015370	S.BEA	ACZ1005Y-102-T	B	64.7/14.2
EP2	6910015370	S.BEA	ACZ1005Y-102-T	B	78.1/26.3
EP3	6910012350	S.BEA	MMZ1608Y 102BT	T	117.6/30.9
EP401	6910016330	S.BEA	MMZ1005S 601CT-S	T	46.3/21.9
EP402	6910015370	S.BEA	ACZ1005Y-102-T	T	30/23.1
EP601	6910016330	S.BEA	MMZ1005S 601CT-S	B	5.5/16.7
EP602	6910016330	S.BEA	MMZ1005S 601CT-S	T	6.1/38.5
EP603	6910016330	S.BEA	MMZ1005S 601CT-S	T	23.2/16.2
EP604	6910016330	S.BEA	MMZ1005S 601CT-S	T	11.1/11.1
EP605	6910016330	S.BEA	MMZ1005S 601CT-S		
EP606	6910016330	S.BEA	MMZ1005S 601CT-S		
MP1	6910014760	S.PLA	OG-503040	B	79.9/27.4
MP2	8510018910	S.CAS	3062 VCO CASE Y1092	T	95.9/19.1

[FUSE UNIT]

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
L1	6200006190	S.COI	BLM21PG300SN1D (BLM21P300S)	T	8.5/10.2
C1	4030016930	S.CER	ECJ0EB1A104K	T	4.5/9.3
C2	4030017460	S.CER	ECJ0EB1E102K	T	5.4/9.3
C3	4030017420	S.CER	ECJ0EC1H470J	T	6.3/9.3
C4	4030017420	S.CER	ECJ0EC1H470J	T	8.8/8.7
C5	4030017460	S.CER	ECJ0EB1E102K	T	8.8/7.8
C6	4030016930	S.CER	ECJ0EB1A104K	T	11.1/9.8
J1	6910016860	CON	IMSA-9230B-1-02Z150-PT1		
F1	5210000970	S.FUS	ERBSE3R00U	T	11/8.1

[ANT UNIT]

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
L1	6200013450	S.COI	0.40-2.4-5TL 43.3N <COMO>	T	3.3/10.2
R1	7030003680	S.RES	ERJ3GEYJ 104 V (100K)	T	2.6/6
C1	4030007050	S.CER	C1608 CH 1H 220J-T	T	2.6/14.1
C3	4030009990	S.CER	C1608 CH 1H 200J-T	T	2.6/7.6
C4	4030007030	S.CER	C1608 CH 1H 150J-T	T	2.6/12.8

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

[VR UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R1	7210003300	VAR TP76N937N-21.5F-10KA-3062		
J1	6910017680	CON IMSA-9230B-1-04Z140-PT1		

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140010771	S.IC HD64F3687FPV(EMPTY)	B	95.3/24
IC2	1130013050	S.IC HD74LV2GT125AUSE-E	B	76.7/23
IC3	1110005330	S.IC NJM12904V-TE1-#ZZZB	B	108.5/35.7
IC5	1110005310	S.IC AN612MS	B	99.6/35.7
IC6	1110006770	S.IC TDA8547TS/N	T	113.7/13.1
IC7	1140013200	S.IC CD4053BPWR	B	113.5/35.7
IC9	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	80.2/23.1
IC401	1110006221	S.IC AK2346P-E2/P	B	47.5/21.3
IC402	1130008230	S.IC BU4053BCFV-E2	B	64.1/32.1
IC403	1110006470	S.IC LMV3241PWR	B	26.9/21.5
IC404	1110007290	S.IC AK2330P-L	B	66/21.8
IC405	1130011741	S.IC TC7V66FK(TE85L,F)	B	77/29.4
IC408	1110006470	S.IC LMV3241PWR	B	79.4/36.6
Q1	1590000980	S.TRA DTB123EK T146	T	116.1/31.1
Q2	1590003451	S.TRA UNR9214G0L	T	117.1/27.9
Q4	1590001190	S.TRA XP6501-(TX).AB	T	113.3/20.6
Q5	1520000460	S.TRA 2SB1132 T100 R	B	108.9/21.7
Q6	1590003451	S.TRA UNR9214G0L	T	118.8/36.0
Q7	1590003451	S.TRA UNR9214G0L	T	109/11.9
Q8	1590001400	S.TRA XP1214(TX)	B	138/13.4
Q9	1590003241	S.TRA UNR9114G0L	T	114.9/34.6
Q11	1590003451	S.TRA UNR9214G0L	B	109/9.2
Q12	1510000920	S.TRA 2SA1577 T106 Q	B	111.6/9.8
Q13	1590003550	S.TRA XP4313(TX)	B	104.5/30.4
Q409	1590003451	S.TRA UNR9214G0L	B	21.4/16.1
Q417	1590003451	S.TRA UNR9214G0L	B	73.2/31.8
D1	1790001261	S.DIO MA2S077G0L	B	92.1/12.8
D2	1790001251	S.DIO MA2S1110GGL	B	104/15.3
D3	1750000520	S.DIO DAN222TL	T	116.7/7.8
D4	1750000520	S.DIO DAN222TL	B	133.5/11.4
X1	6050011720	S.XTA CR-764 SMD-49TB 19.6608 MHz	B	94.4/6.5
X401	6050011730	S.XTA CR-765 SMD-49TA 3.6864 MHz	B	54.7/10
L401	6200011031	S.COI ELJRF R10JFB	B	50.8/26.2
R1	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	74.6/44.6
R2	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]	B	72.7/44.6
R2	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	72.7/44.6
R3	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]	B	72.7/44.6
R3	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T] only	B	71.7/44.6
R4	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	96.3/14.3
R5	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	97.2/14.3
R6	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/36.5
R6	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]	T	108.7/36.5
R7	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	92.7/14.3
R8	7030005530	S.RES ERJ2GEJ 100 X (10)	B	94.5/14.3
R9	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	90.9/14.3
R10	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/24
R10	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]	T	108.7/24
R11	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/13.5
R11	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011T]	T	108.7/13.5
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	98.1/14.3
R13	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/37.5
R13	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011T]	T	124.2/37.5
R14	7030010040	S.RES ERJ2GEJ-JPW [F9011B]	B	89.1/14.3
R14	7030010040	S.RES ERJ2GEJ-JPW [F9011S]	B	89.1/14.3
R15	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	99.1/14.3
R16	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/36.6
R16	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011T]	T	124.2/36.6
R17	7410001140	S.ARR EXB28V104JX	B	86.3/20
R18	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	110.7/19.4
R19	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	110.7/21.2
R21	7410001140	S.ARR EXB28V104JX	B	103.9/24
R22	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	115.7/20.2
R23	7410001140	S.ARR EXB28V104JX	B	103.8/21.4
R24	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	104.2/19.7
R25	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	115.7/22.9
R26	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	115.7/22
R27	7410001140	S.ARR EXB28V104JX	B	104.1/27.9
R28	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	85.8/26.2
R29	7030010040	S.RES ERJ2GEJ-JPW	B	72.2/38.3
R30	7030004980	S.RES ERJ2GEJ 101 X (100)	B	110.5/31.4
R32	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	74/38.3
R33	7030004980	S.RES ERJ2GEJ 101 X (100)	B	103.2/39.1
R34	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	78.4/33
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	73.1/38.3
R36	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	76/39.9
R37	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	104.2/16.7
R38	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	110.2/28.4
R39	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	96.8/37.7
R40	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	110.6/26.2
R41	7030007060	S.RES ERJ2GEJ 684X (680K)	B	108/40.4
R42	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.1/28.4
R43	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	111.5/30.2

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R44	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	B	108/41.4
R45	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.4/14.7
R46	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.4/16.5
R47	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	110.1/42.6
R48	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	108.6/14.3
R49	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	108.6/16.1
R50	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.8/31.5
R51	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	109.4/32.9
R52	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	B	103.2/35.5
R53	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	103.2/37.3
R54	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	109.2/42.6
R55	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	108.6/15.2
R56	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	108.6/17
R58	7030005040	S.RES ERJ2GEJ 272 X (2.7K)	B	110.6/14.3
R59	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	108.6/13.4
R61	7030005000	S.RES ERJ2GEJ 471 X (470)	B	104.7/35.4
R62	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	110.2/30.6
R63	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	110.6/13.4
R65	7030005530	S.RES ERJ2GEJ 100 X (10)	B	110.6/16.1
R67	7520000270	S.POS PRG21BC4R7MM1RA	B	135.9/9.9
R68	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	115.3/36.5
R69	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	116.2/36.5
R70	7030007280	S.RES ERJ2GEJ 331 X (330)	T	140/13.3
R71	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	110.7/34.9
R72	7030005000	S.RES ERJ2GEJ 471 X (470)	T	140.9/13.3
R73	7030004970	S.RES ERJ2GEJ 470 X (47)	T	115.7/18.4
R74	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	111.6/36.5
R75	7030004970	S.RES ERJ2GEJ 470 X (47)	T	115.7/19.3
R76	7030004970	S.RES ERJ2GEJ 470 X (47)	B	132.8/9.6
R77	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	109.8/36.5
R78	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	109.8/34.9
R79	7030004970	S.RES ERJ2GEJ 470 X (47)	T	120.6/8.8
R80	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	120.6/11.4
R81	7030004970	S.RES ERJ2GEJ 470 X (47)	T	120.6/10.5
R85	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	110.1/9.1
R86	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T] only	B	70.8/44.6
R87	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T] only	B	69.8/44.6
R89	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	73.6/44.6
R89	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]	B	73.6/44.6
R90	7030003200	S.RES ERJ3GEYJ 100 V (2.0)	T	115.3/17.3
R91	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	119.7/6.3
R92	7410001140	S.ARR EXB28V104JX	T	114.3/28.3
R93	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	86.4/24.1
R94	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	86.4/25
R95	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	78.4/23.2
R96	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	118.3/7.6
R402	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	40.9/16.5
R403	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	67.7/35.7
R405	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	68.1/38.4
R407	7030011660	S.RES ERJ2RKF 1002 (10K)	B	42.1/17
R408	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	41.7/21.3
R409	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	41.2/15.2
R411	7030005000	S.RES ERJ2GEJ 471 X (470)	B	44.5/28.8
R412	7030005000	S.RES ERJ2GEJ 471 X (470)	B	50.8/27.2
R413	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	53.2/18.9
R414	7030011660	S.RES ERJ2RKF 1002 (10K)	B	41.7/20.4
R417	7030006610	S.RES ERJ2GEJ 394 X (390K)	B	40.6/28.4
R418	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	40.6/30
R426	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	42.4/30
R430	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	58.2/10.2
R433	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	53.6/27.1
R434	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	53.2/20.5
R435	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	55/20.5
R436	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	53.6/26.2
R438	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	B	58.8/28.4
R439	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	58.8/31.1
R440	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	67.1/27.8
R441	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	54.1/18.9
R444	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	67.1/28.7
R450	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	69.5/32.6
R451	7030010040	S.RES ERJ2GEJ-JPW	B	75/33.2
R452	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	67.1/25.7
R453	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	21.4/21.8
R454	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	19.6/21.8
R455	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	83.7/36.9
R456	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	68.1/36.6
R458	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	20.5/23.5
R459	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	84/38.5
R460	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	73.1/36.4
R461	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	22.3/23.5
R462	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	72/23.9
R464	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	74/36.4
R465	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	78.4/27.6
R466	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	73.8/29.6
R467	7030005000	S.RES ERJ2GEJ 471 X (470)	B	69.3/23.9
R468	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	65.2/26.1
R469	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	64.3/26.1
R470	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	32/17.9
R471	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	61.5/26.1
R475	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	23.5/17.9
R476	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	32/20.6
R477	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	32/23.3
R479	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25.2/17.9
R481	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	21.8/32.6
R483	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	15.8/32.1
R484	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25.2/17
R486	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	26.9/17
R488	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	32/21.5
R490	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	26.9/17.9
R491	7030005050	S.RES ERJ2GEJ 10		

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R499	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	84.9/35.3
R500	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	80.4/33
R501	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	73.8/28.6
R503	7030010040	S.RES ERJ2GEJ-JPW	B	21.8/31
R504	7030010040	S.RES ERJ2GEJ-JPW	B	15.8/33.1
R505	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	75/34.8
R506	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	73.8/35.2
R507	7030004970	S.RES ERJ2GEJ 470 X (47)	B	75.9/33.2
R509	7030010040	S.RES ERJ2GEJ-JPW	B	22.7/6.3
R510	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	33.7/23.3
R511	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	33.7/18.8
C1	4030017630	S.CER ECJ0EC1H120J	B	95.4/14.3
C2	4030017580	S.CER ECJ0EC1H060C	B	91.8/14.3
C3	4030017640	S.CER ECJ0EC1H150J	B	93.6/14.3
C4	4030016790	S.CER ECJ0EB1C103K	B	90/14.3
C5	4030016790	S.CER ECJ0EB1C103K [F9011S]	T	124.2/39.3
	4030016790	S.CER ECJ0EB1C103K [F9011T]		
C6	4030016930	S.CER ECJ0EB1A104K	B	100/14.3
C7	4030016930	S.CER ECJ0EB1A104K	B	96.1/15.7
C8	4550000460	S.TAN TEESVA 1C 105M8R [F9011S]	B	117.9/37.1
	4550000460	S.TAN TEESVA 1C 105M8R [F9011T]		
C9	4550006250	S.TAN TEESVA 1A 106M8R	B	97.5/12.2
C10	4030016930	S.CER ECJ0EB1A104K [F9011S]	T	124.2/40.2
	4030016930	S.CER ECJ0EB1A104K [F9011T]		
C11	4030017460	S.CER ECJ0EB1E102K	B	104.2/18.5
C12	4030016930	S.CER ECJ0EB1A104K	T	110.7/20.3
C13	4030017460	S.CER ECJ0EB1E102K	T	115.7/21.1
C14	4030016930	S.CER ECJ0EB1A104K	T	116.9/21.8
C15	4030017460	S.CER ECJ0EB1E102K	T	117.8/21.8
C16	4030017770	S.CER ECJ0EB1E332K	B	71.3/38.3
C17	4550007880	S.TAN TEESVB2 1A 686M8R	B	112.0/27.9
C19	4030016930	S.CER ECJ0EB1A104K	B	105.6/35.4
C20	4550007880	S.TAN TEESVB2 1A 686M8R	T	130.3/9.8
C21	4030016790	S.CER ECJ0EB1C103K	B	104.2/17.6
C22	4550006250	S.TAN TEESVA 1A 106M8R	B	100.7/40.5
C23	4550007880	S.TAN TEESVB2 1A 686M8R	T	133.6/9.8
C24	4030018140	S.CER ECJ0EB1H391K	B	75/38.3
C25	4550006250	S.TAN TEESVA 1A 106M8R	B	98.4/40.5
C26	4550006250	S.TAN TEESVA 1A 106M8R	B	74.9/42.1
C27	4030017460	S.CER ECJ0EB1E102K	B	78/39.9
C29	4030016930	S.CER ECJ0EB1A104K	T	110.6/27.1
C30	4030016930	S.CER ECJ0EB1A104K	B	106.5/14.7
C31	4030016930	S.CER ECJ0EB1A104K	B	106.5/16.5
C32	4030011810	S.CER C1608 JB 1A 224K-T	B	107.5/43.3
C33	4030017730	S.CER ECJ0EB1E471K	B	109.6/40.4
C34	4030017460	S.CER ECJ0EB1E102K	T	113/32.4
C35	4030016930	S.CER ECJ0EB1A104K	B	103.2/36.4
C36	4030016960	S.CER ECJ0EB1C183K	B	109.6/41.4
C37	4030018860	S.CER ECJ0EB0J105K	T	110.2/31.5
C38	4030016960	S.CER ECJ0EB1C183K	B	104.7/37
C39	4030018080	S.CER ECJ0EB1H182K	T	110.2/29.7
C40	4030016930	S.CER ECJ0EB1A104K	B	103.2/38.2
C41	4550006250	S.TAN TEESVA 1A 106M8R	T	119.3/14.4
C42	4030017460	S.CER ECJ0EB1E102K	T	117.1/36.5
C43	4030016950	S.CER ECJ0EB1A473K	B	110.6/17
C44	4030016930	S.CER ECJ0EB1A104K	T	114.4/36.5
C45	4550007880	S.TAN TEESVB2 1A 686M8R	T	123.6/9.8
C46	4550007880	S.TAN TEESVB2 1A 686M8R	T	126.9/9.8
C47	4030018860	S.CER ECJ0EB0J105K	T	112.5/36.5
C48	4030016970	S.CER ECJ0EB1C223K	B	116.7/7.6
C49	4030016930	S.CER ECJ0EB1A104K	T	111.6/34.9
C50	4030017460	S.CER ECJ0EB1E102K	T	110.7/36.5
C51	4030017460	S.CER ECJ0EB1E102K	T	111.9/33.3
C52	4030017460	S.CER ECJ0EB1E102K	B	134.1/9.6
C53	4030017400	S.CER ECJ0EC1H220J	B	127.5/6.3
C54	4030017400	S.CER ECJ0EC1H220J	B	126.6/6.3
C56	4030016790	S.CER ECJ0EB1C103K	B	118.8/6.3
C59	4030017460	S.CER ECJ0EB1E102K	B	123.7/6.3
C60	4030017400	S.CER ECJ0EC1H220J	B	120.6/6.3
C61	4030017460	S.CER ECJ0EB1E102K	B	122.8/6.3
C62	4030017400	S.CER ECJ0EC1H220J	B	121.5/6.3
C63	4030017730	S.CER ECJ0EB1E471K	B	117/6.3
C64	4030017460	S.CER ECJ0EB1E102K	T	135.6/14.3
C65	4030017460	S.CER ECJ0EB1E102K	T	136.2/11.5
C67	4550006250	S.TAN TEESVA 1A 106M8R [F9011S]	B	120/37.1
	4550006250	S.TAN TEESVA 1A 106M8R [F9011T]		
C68	4030016790	S.CER ECJ0EB1C103K [F9011S]	T	124.2/38.4
	4030016790	S.CER ECJ0EB1C103K [F9011T]		
C69	4030018860	S.CER ECJ0EB0J105K	T	112.3/29
C70	4030008920	S.CER C1608 JB 1H 473K-T	T	111.5/17.3
C71	4030017460	S.CER ECJ0EB1E102K	B	124.2/45.6
C72	4030017460	S.CER ECJ0EB1E102K	B	114.6/45.6
C73	4030017460	S.CER ECJ0EB1E102K	B	105.1/45.6
C74	4550006250	S.TAN TEESVA 1A 106M8R	B	103.5/33
C75	4550007880	S.TAN TEESVB2 1A 686M8R	T	121.2/33.4
C77	4030017420	S.CER ECJ0EC1H470J	B	105.9/22.6
C401	4030017420	S.CER ECJ0EC1H470J	B	43.1/25.7
C402	4030017420	S.CER ECJ0EC1H470J	B	53.6/23.9
C403	4030017420	S.CER ECJ0EC1H470J	B	42.2/24.8
C404	4030017420	S.CER ECJ0EC1H470J	B	53.6/24.8
C405	4030016970	S.CER ECJ0EB1C223K	B	53.7/17.7
C406	4030017420	S.CER ECJ0EC1H470J	B	42.2/23.9
C407	4030018860	S.CER ECJ0EB0J105K	B	68.1/37.5
C409	4030016930	S.CER ECJ0EB1A104K	B	42.1/15.2
C410	4030017460	S.CER ECJ0EB1E102K	B	40.9/17.4
C411	4030017420	S.CER ECJ0EC1H470J	B	42.2/23
C412	4550000460	S.TAN TEESVA 1C 105M8R	B	37.4/20.3
C413	4030017420	S.CER ECJ0EC1H470J	B	39.7/28.4
C415	4550000460	S.TAN TEESVA 1C 105M8R	B	37.4/18.2
C416	4030017760	S.CER ECJ0EB1H222K	B	41.5/30
C417	4030016930	S.CER ECJ0EB1A104K	B	43.3/30
C418	4030017460	S.CER ECJ0EB1E102K	B	53.6/28

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C419	4030016930	S.CER ECJ0EB1A104K	B	42.8/28.8
C420	4030017400	S.CER ECJ0EC1H220J	B	51.3/36.1
C421	4030017710	S.CER ECJ0EC1H181J	B	52.4/26.7
C422	4550006250	S.TAN TEESVA 1A 106M8R	B	37.4/22.4
C424	4030017460	S.CER ECJ0EB1E102K	B	39.5/24.2
C425	4030017400	S.CER ECJ0EC1H220J	B	51.3/13.8
C427	4030017780	S.CER ECJ0EB1E472K	B	58.8/32.9
C429	4030018860	S.CER ECJ0EB0J105K	B	54.1/20.5
C430	4030017770	S.CER ECJ0EB1E332K	B	58.8/29.3
C431	4030017030	S.CER ECJ0EB1A273K	B	58.8/30.2
C433	4030018820	S.CER ECJ0EB1H561K	B	59.7/32.9
C434	4030016930	S.CER ECJ0EB1A104K	B	55.3/27.1
C435	4030016930	S.CER ECJ0EB1A104K	B	69.5/28.7
C436	4030016790	S.CER ECJ0EB1C103K	B	69.5/33.5
C438	4030017460	S.CER ECJ0EB1E102K	B	69.5/31.7
C440	4030018900	S.CER ECJ0EB0J474K	B	20.5/25.2
C441	4030016930	S.CER ECJ0EB1A104K	B	84.6/36.9
C442	4030018820	S.CER ECJ0EB1H561K	B	84.9/38.5
C443	4030016930	S.CER ECJ0EB1A104K	B	20.5/21.8
C444	4030016930	S.CER ECJ0EB1A104K	B	69.8/22.6
C445	4030016930	S.CER ECJ0EB1A104K	B	75/36.4
C446	4030016930	S.CER ECJ0EB1A104K	B	65.7/17.1
C447	4030016930	S.CER ECJ0EB1A104K	B	80/27.6
C448	4030016930	S.CER ECJ0EB1A104K	B	70.2/23.9
C449	4030016930	S.CER ECJ0EB1A104K	B	73.8/27.6
C451	4030016930	S.CER ECJ0EB1A104K	B	63.4/26.1
C452	4030017460	S.CER ECJ0EB1E102K	B	62.5/18.8
C453	4030016930	S.CER ECJ0EB1A104K	B	33.7/17
C456	4030018860	S.CER ECJ0EB0J105K	B	68.9/35.3
C457	4030017420	S.CER ECJ0EC1H470J	B	32/17
C460	4030018910	S.CER C1608 JB 0J 475K-T	B	70.2/36.7
C461	4030017420	S.CER ECJ0EC1H470J	B	23.5/15.2
C462	4030017910	S.CER ECJ0EB1H152K	B	32/18.8
C464	4030016930	S.CER ECJ0EB1A104K	B	23.5/16.1
C465	4030017430	S.CER ECJ0EC1H101J	B	32/19.7
C466	4030016930	S.CER ECJ0EB1A104K	B	19.7/31.1
C469	4030017750	S.CER ECJ0EB1E122K	B	21.4/20.1
C472	4030017420	S.CER ECJ0EC1H470J	B	32/24.2
C473	4030016930	S.CER ECJ0EB1A104K	B	23.5/18.8
C474	4030017760	S.CER ECJ0EB1H222K	B	32/22.4
C475	4030016960	S.CER ECJ0EB1C183K	B	25.2/16.1
C476	4030017690	S.CER ECJ0EC1H121J	B	30.3/24.2
C477	4030016930	S.CER ECJ0EB1A104K	B	20.5/20.1
C478	4030017460	S.CER ECJ0EB1E102K	B	19.6/20.1
C479	4030017460	S.CER ECJ0EB1E102K	B	33.7/20.6
C480	4030016930	S.CER ECJ0EB1A104K	B	64.2/17.1
C482	4030017460	S.CER ECJ0EB1E102K	B	84/35.3
C484	4030018860	S.CER ECJ0EB0J105K	B	62.8/19.2
C485	4030018860	S.CER ECJ0EB0J105K	B	33.7/17.9
J1	6510025242	S.CON IMSA-9631S-20Y930	B	77.7/13.4
J2	6510025252	S.CON IMSA-9631S-08Y930 [F9011S]	B	125.2/37.2
J3	6510026311	S.CON IMSA-9631S-14Y930 [F9011T]	B	123.7/11.2
J4	6510025262	S.CON IMSA-9631S-10Y930	B	116.4/25.3
	6510025260	S.CON IMSA-9631S-10Y912 [F9011B]		
	6510025260	S.CON IMSA-9631S-10Y912 [F9011S]		
J5	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	114.4/16.5
J406	6510022221	S.CON 36FLZ-SM2-R-TB(LF)(SN)	B	37.4/7.1
DS2	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/31.2
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS3	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/16.7
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS4	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/31.2
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS5	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/16.7
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS6	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/31.2
DS7	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/16.7
DS8	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/31.2
DS9	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/16.7
DS10	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/31.2
DS11	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/16.7
DS12	5040002960	S.LED SML-A12MT T86 [F9011S]	T	107.3/34.5
	5040002960	S.LED SML-A12MT T86 [F9011T]		
DS13	5040002960	S.LED SML-A12MT T86 [F9011S]	T	107.3/24
	5040002960	S.LED SML-A12MT T86 [F9011T]		
DS14	5040002960	S.LED SML-A12MT T86 [F9011S]	T	107.3/13.5
	5040002960	S.LED SML-A12MT T86 [F9011T]		
DS16	5040003141	S.LED FRMG1211C-TR	T	143.5/11.1
DS17	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/32.6
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		

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

**[FRONT UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
DS19	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	46.6/15.4
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
MC1	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011S]		
	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011T]		
MC2	7700002760	MIC EM6027P-46C33-G-01 <HOR> [F9011B] only		
S23	2230001060	S.SWI EVQ-PUL 02K	B	143.4/5.7
S25	2260002800	S.SWI SW-167 (SKQTLAE010)	B	128.9/46.9
S26	2260002800	S.SWI SW-167 (SKQTLAE010)	B	119.4/46.9
S27	2260002800	S.SWI SW-167 (SKQTLAE010)	B	109.9/46.9
EP2	6910018460	S.BEA MMZ1005Y102C-T	B	113/22.1
EP401	6910015600	S.BEA ACZ1005Y-241 (240)	B	41.7/18.3
EP403	6910015370	S.BEA ACZ1005Y-102-T	B	37.9/24.2

**[JACK UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	9/35.4
D2	1790001810	S.VAR AVR-M1005C080MTABB	B	7.4/35.4
D3	1790001810	S.VAR AVR-M1005C080MTABB	B	10.3/33.6
D4	1790001810	S.VAR AVR-M1005C080MTABB	B	8.8/33.6
D5	1790001810	S.VAR AVR-M1005C080MTABB	B	7.9/33.6
D6	1790001810	S.VAR AVR-M1005C080MTABB	B	7/33.6
J1	6510026311	S.CON IMSA-9631S-14Y930	T	8.4/31.7
EP1	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/33.5
EP2	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/34.8
EP3	6910012350	S.BEA MMZ1608Y 102BT	B	5/36
EP4	6910012350	S.BEA MMZ1608Y 102BT	T	1.9/23.5

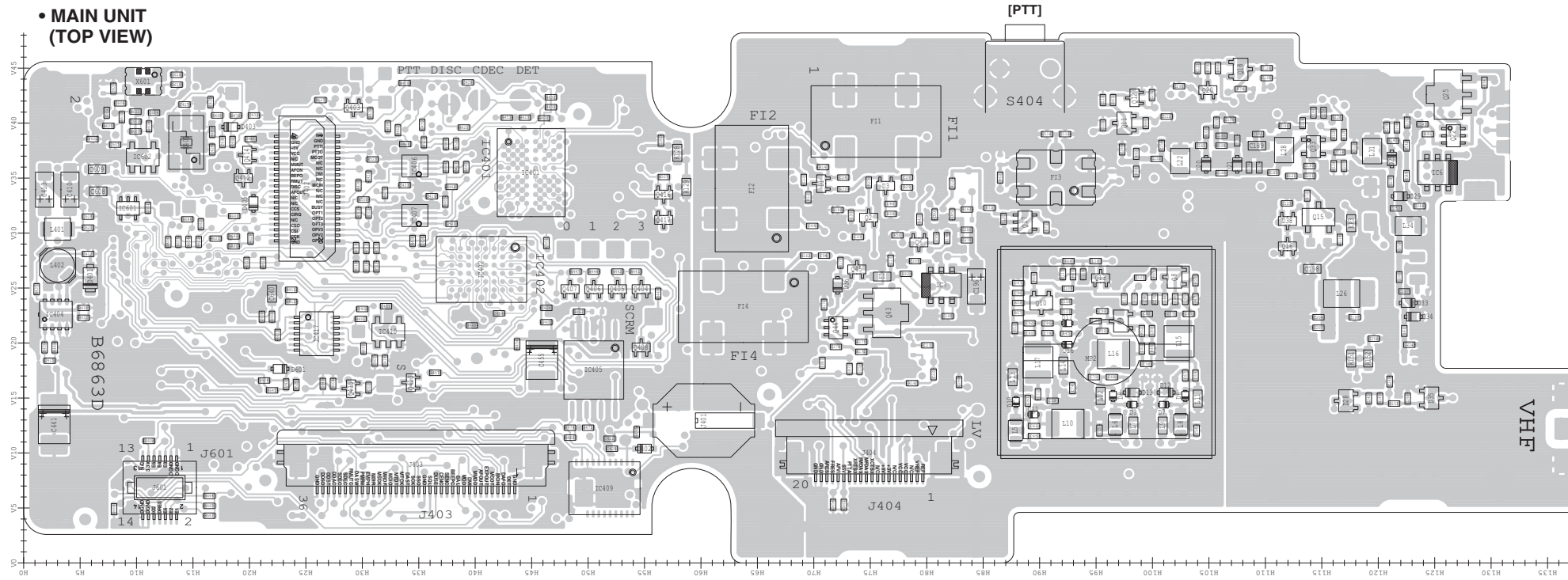
**[SW UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R2	7030005010	S.RES ERJ2GEJ 681 X (680)	T	4/9.9
J1	6510025262	S.CON IMSA-9631S-10Y930	B	6.5/3.3
	6510025260	S.CON IMSA-9631S-10Y912 [F9011B]		
	6510025260	S.CON IMSA-9631S-10Y912 [F9011S]		
J2	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	2.5/8.9
DS1	5040003170	LED UW3804X		
S2	2250000610	ENC TP70H1059-24.5F-3062		

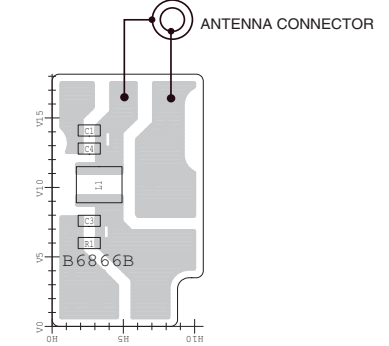
M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

# BOARD LAYOUTS

• MAIN UNIT  
(TOP VIEW)

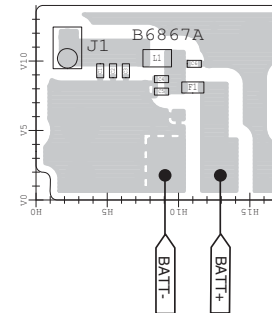


• ANT UNIT  
(TOP VIEW)

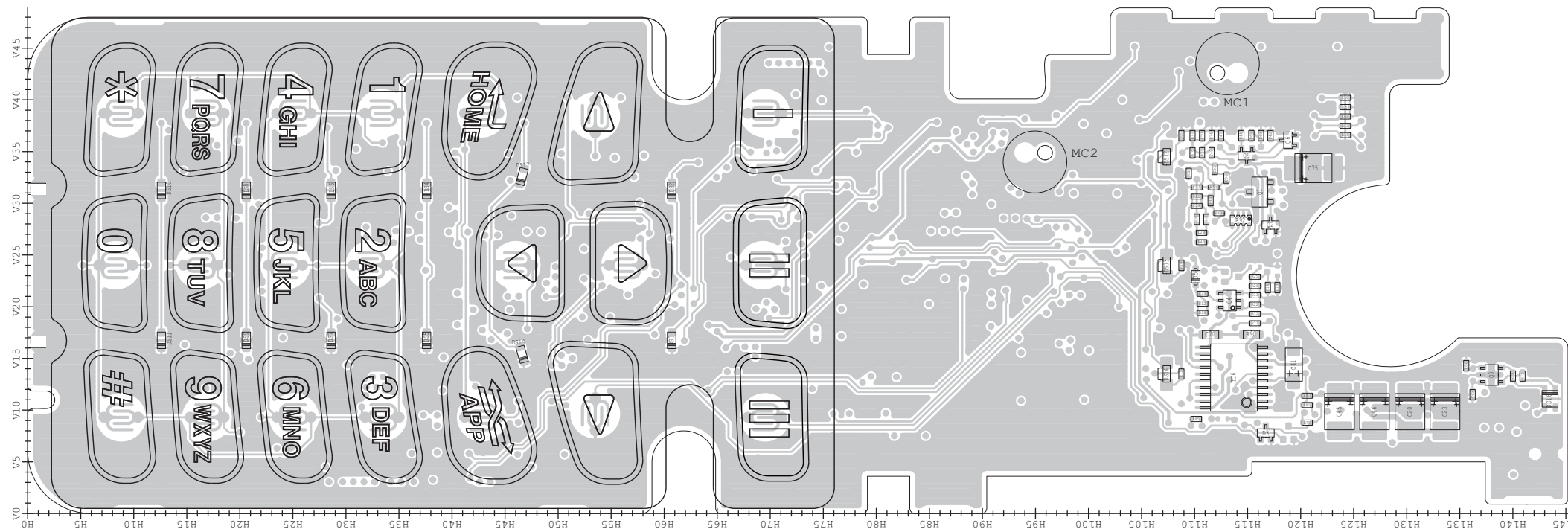


The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

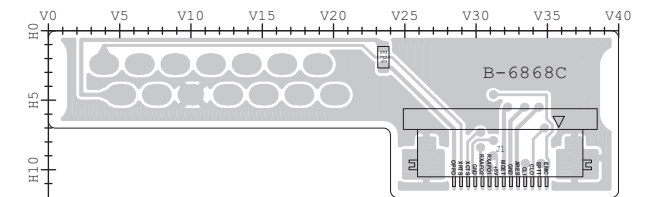
• FUSE UNIT  
(TOP VIEW)



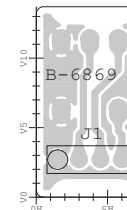
• FRONT UNIT  
(TOP VIEW)



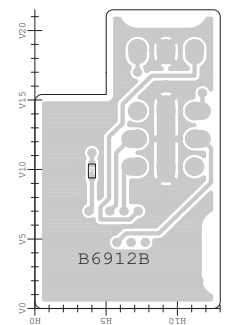
• JACK UNIT  
(TOP VIEW)



• VR UNIT  
(TOP VIEW)

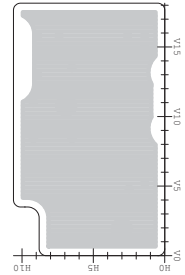


• SW UNIT  
(TOP VIEW)

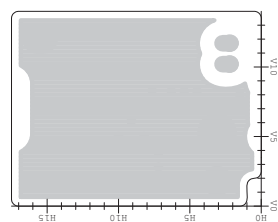


The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

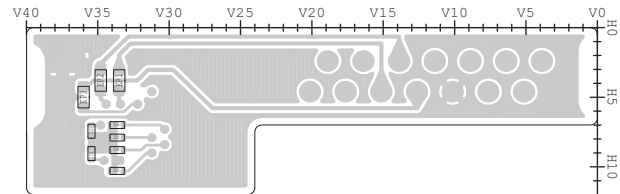
• ANT UNIT  
(BOTTOM VIEW)



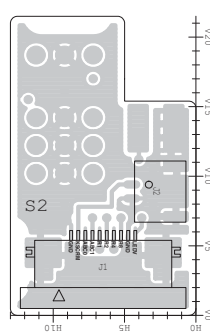
• FUSE UNIT  
(BOTTOM VIEW)



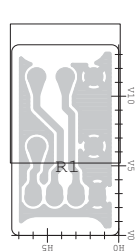
• JACK UNIT  
(BOTTOM VIEW)



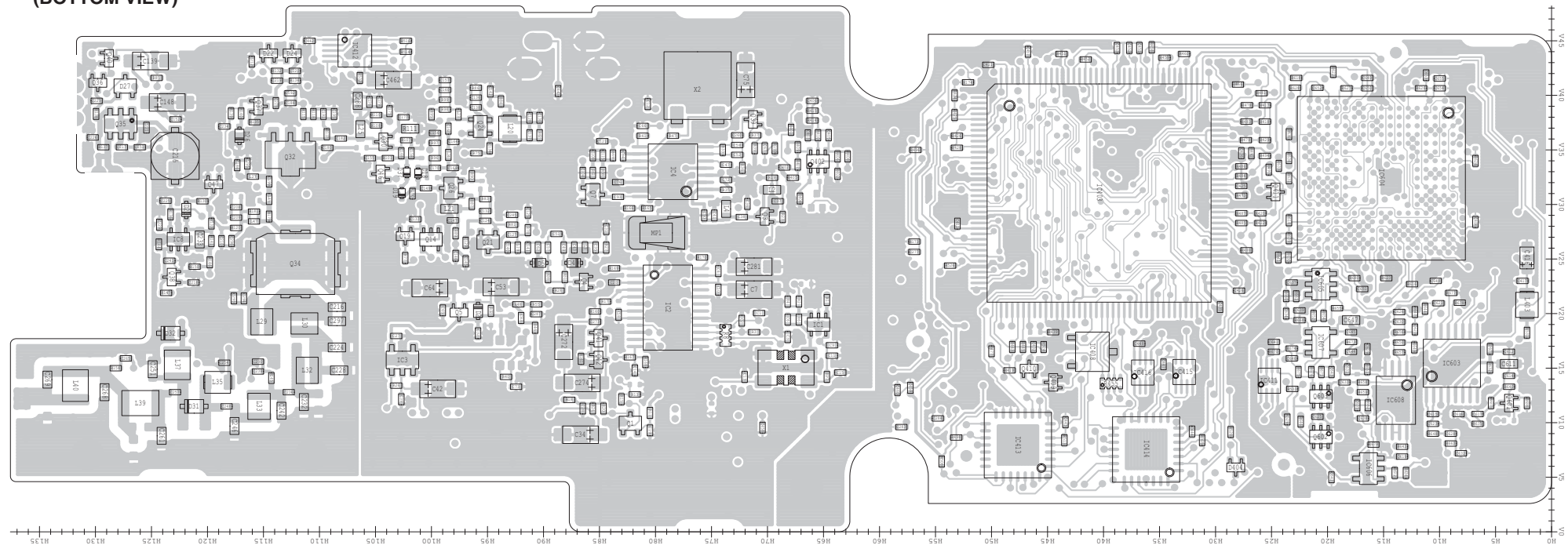
• SW UNIT  
(BOTTOM VIEW)



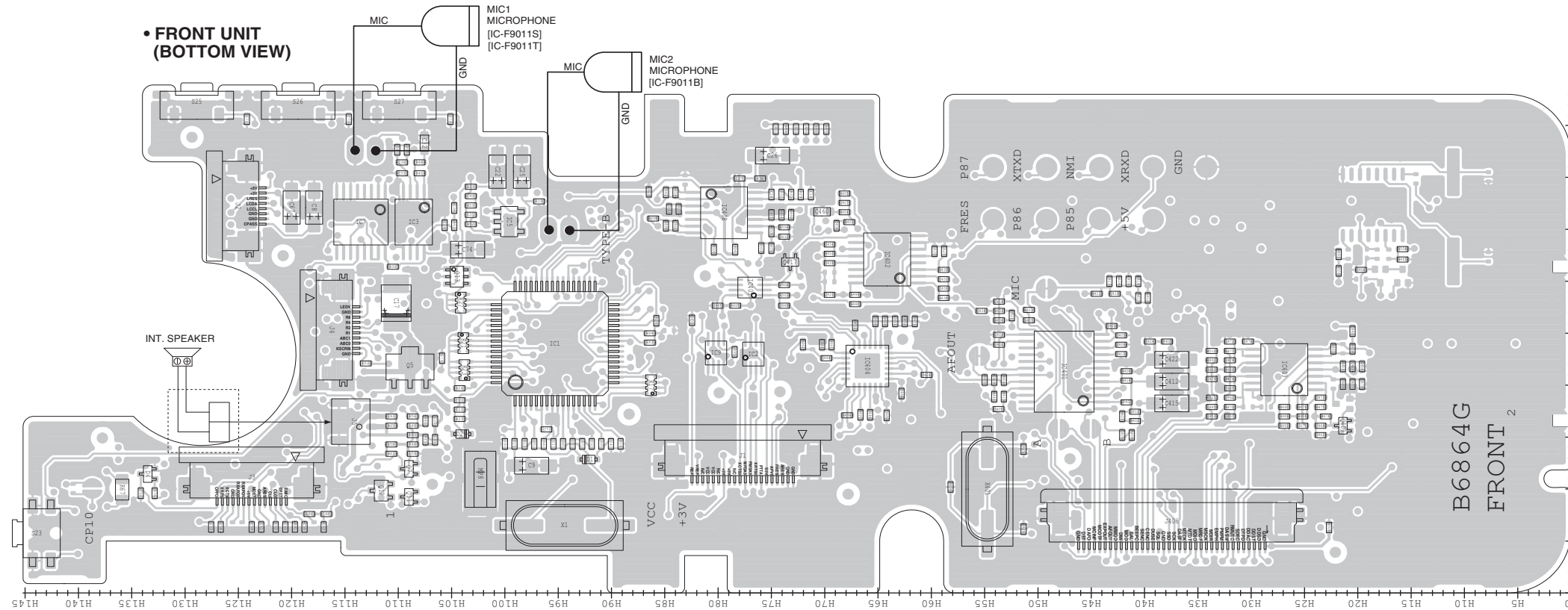
• VR UNIT  
(BOTTOM VIEW)



• MAIN UNIT  
(BOTTOM VIEW)



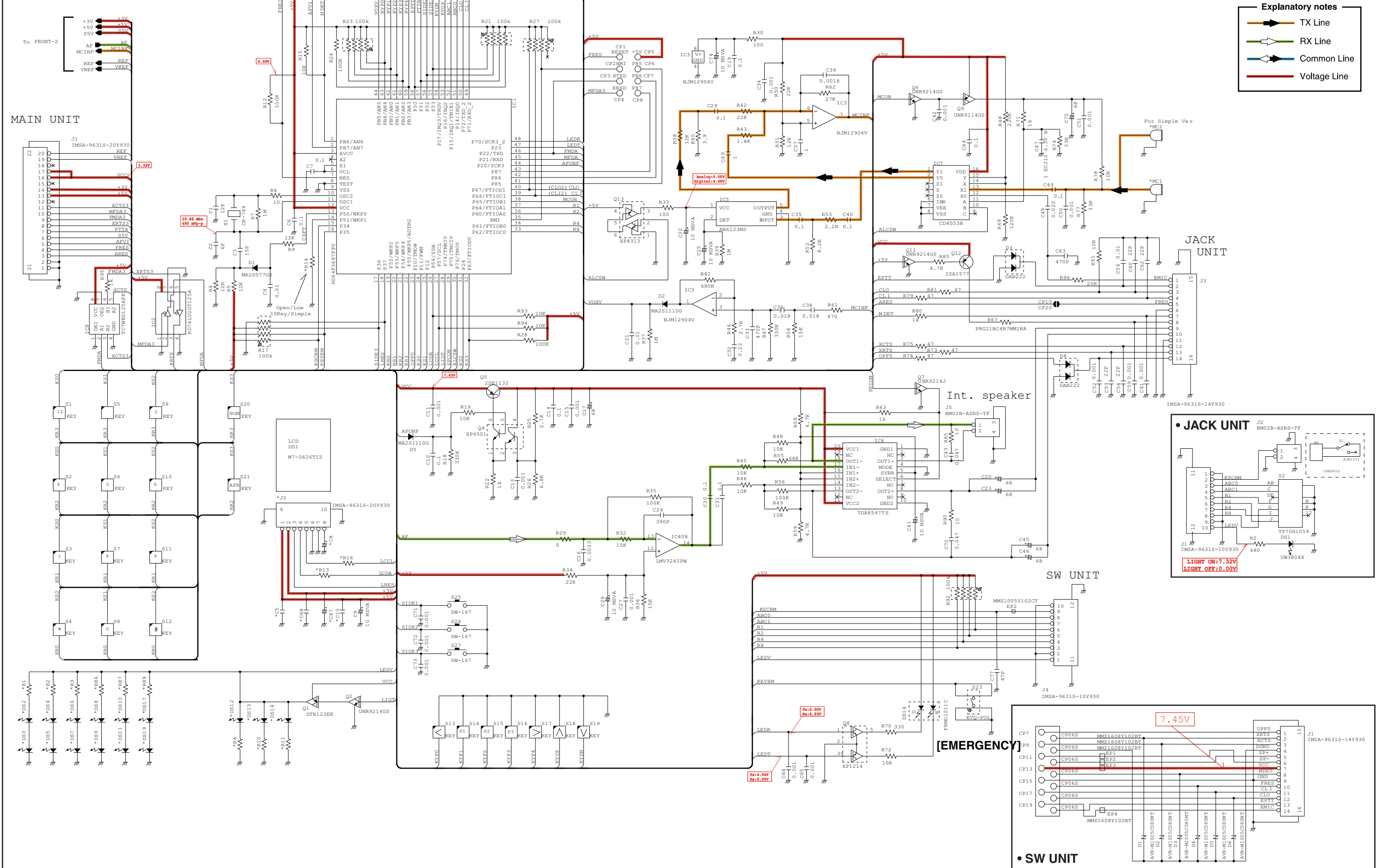
• FRONT UNIT  
(BOTTOM VIEW)



B6864G  
FRONT 2

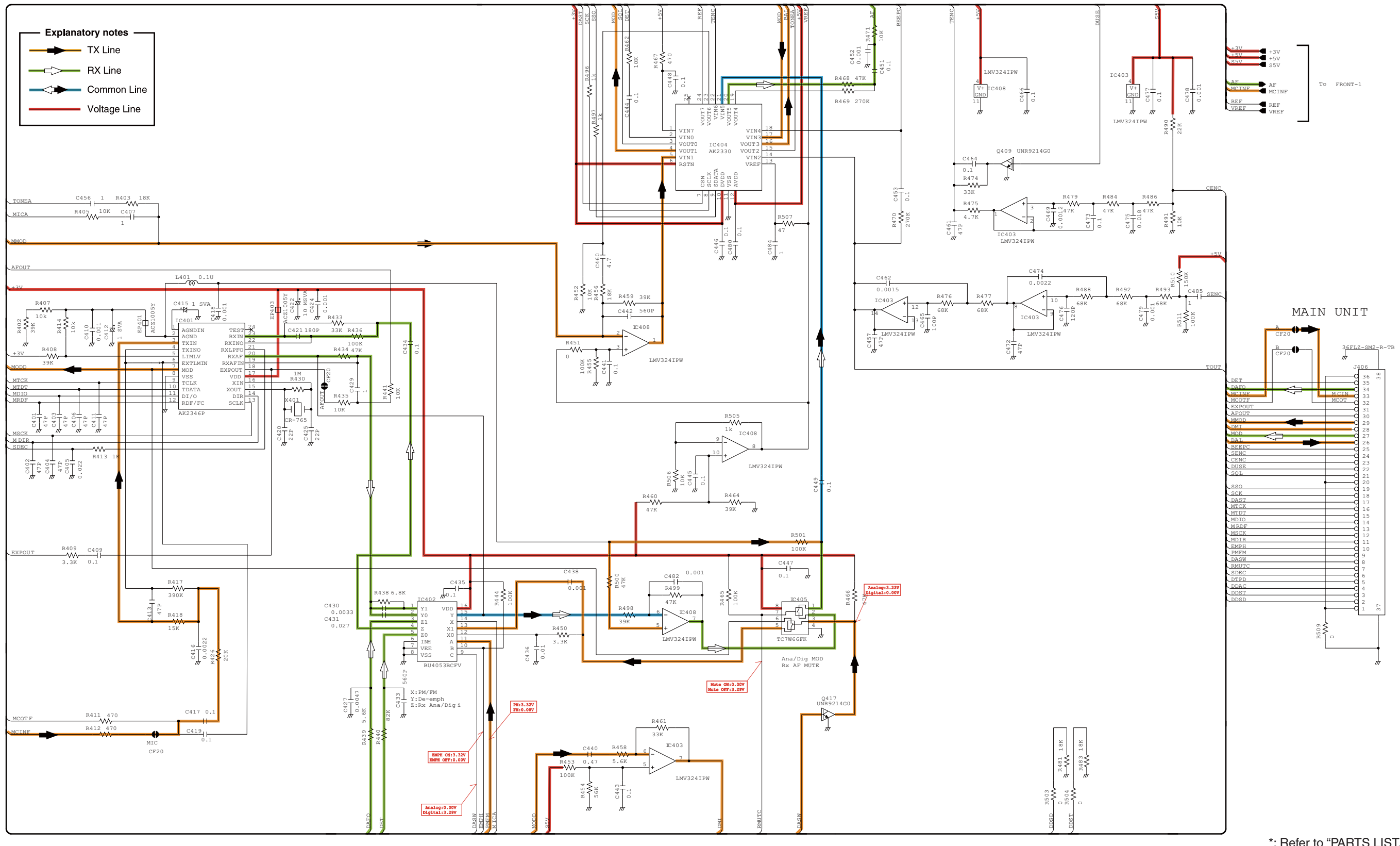
# VOLTAGE DIAGRAM

## • FRONT UNIT (1/2)



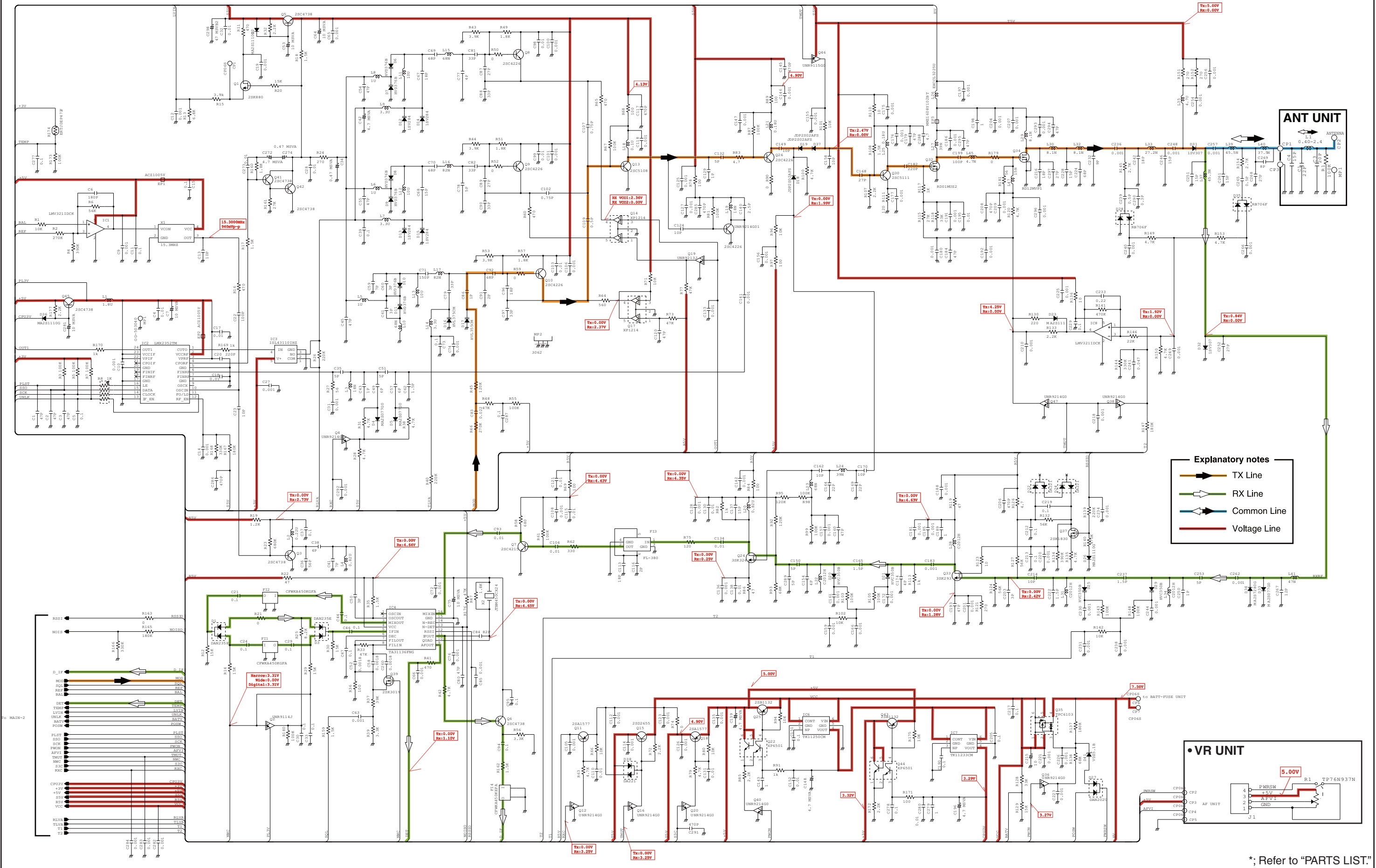
\*; Refer to "PARTS LIST."

• FRONT UNIT (2/2)



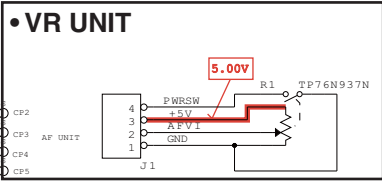
\*; Refer to "PARTS LIST."

• MAIN UNIT (1/3)



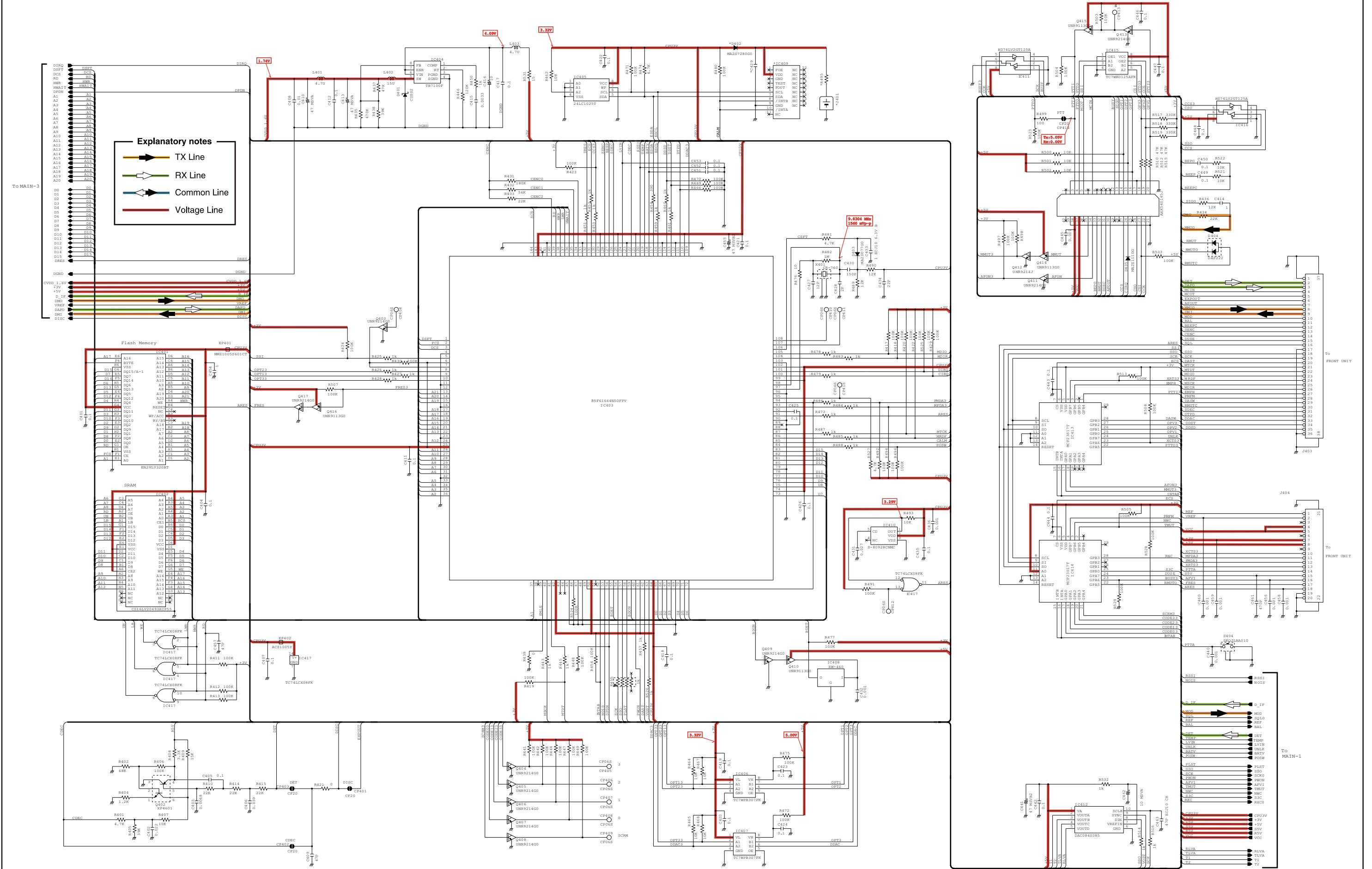
**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line



\*; Refer to "PARTS LIST."

• MAIN UNIT (2/3)

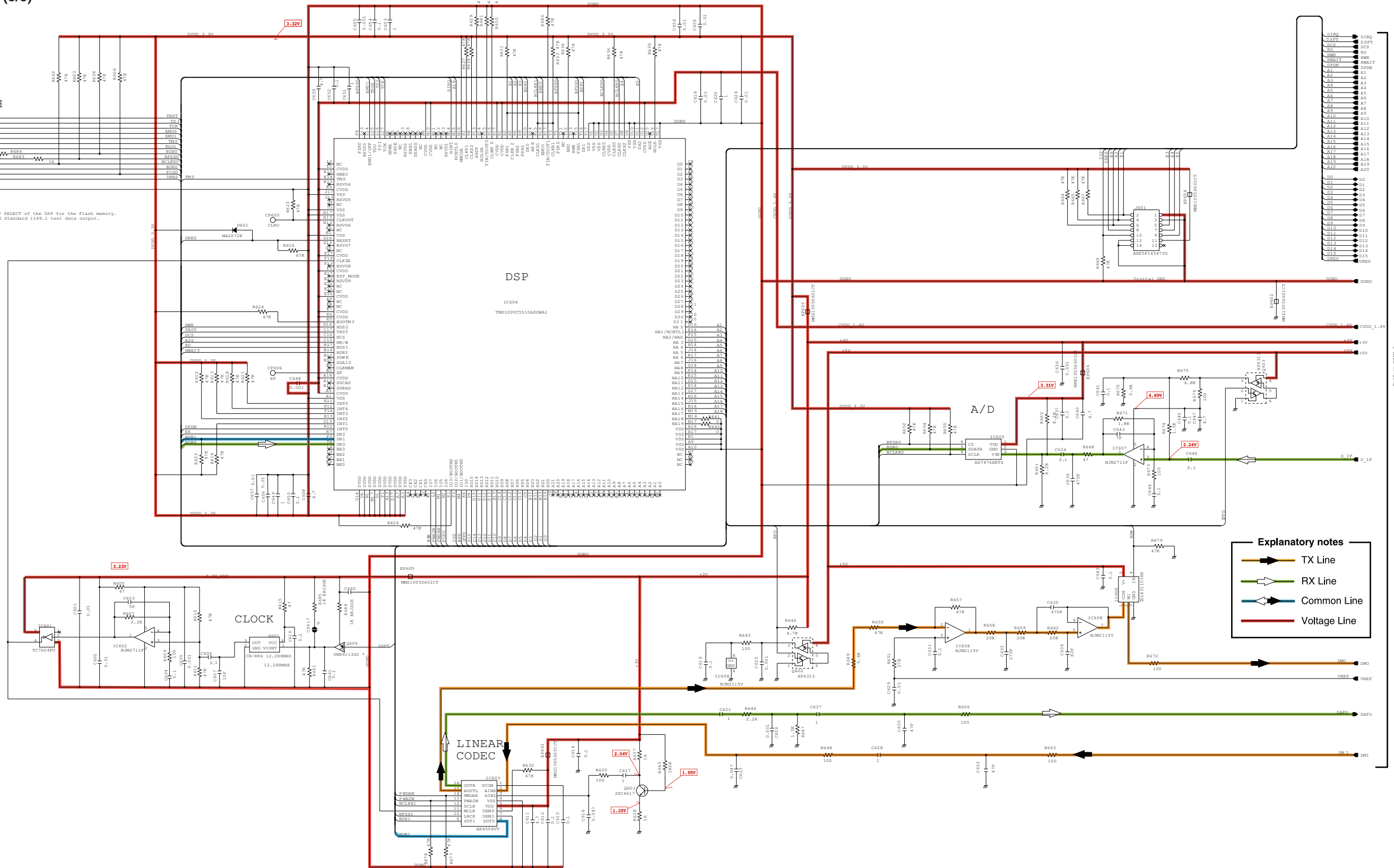


\*; Refer to "PARTS LIST."

• MAIN UNIT (3/3)

DSP FLASH  
 CP416 TRST  
 CP412 TDI  
 CP411 TCK  
 CP413 RNSD  
 CP414 RST1  
 CP410 TMS  
 CP409 TDO0  
 CP404 ST  
 CP415 RFXDQ  
 CP403 SCK  
 CP402 SD  
 CP401 CS  
 CP407 DMSD  
 CP408 DMSD

PCSD: CHIP SELECT of the DSP for the Flash memory.  
 TDO0: IEEE Standard 1149.1 test data output.



**Explanatory notes**

- TX Line (Orange arrow)
- RX Line (Green arrow)
- Common Line (Blue arrow)
- Voltage Line (Red arrow)

\*, Refer to "PARTS LIST."

Dec. 2008



# SERVICE MANUAL ADDENDUM

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## IC-F9011B IC-F9011T IC-F9011S

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[MAIN UNIT]

Table with columns REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains parts list for R450 to R633.

[MAIN UNIT]

Table with columns REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Contains parts list for R634 to R684 and C1 to C62.

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

[MAIN UNIT]

Table with columns REF NO., PARTS NO., DESCRIPTION, M., and H/V LOCATION. Rows include parts like C63, C64, C65, etc., with descriptions such as S.CER ECJ0EB1E102K and locations like 70.2/35.1, 100.1/22.3.

[MAIN UNIT]

Table with columns REF NO., PARTS NO., DESCRIPTION, M., and H/V LOCATION. Rows include parts like C176, C177, C179, etc., with descriptions such as S.CER ECJ0EB1E102K and locations like 105.5/39.4, 102.5/38.

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
C403	4030017790	S.CER ECJ0EB1E682K	B	66.4/36.3
C404	4030016930	S.CER ECJ0EB1A104K	T	46.3/23.2
C405	4030016930	S.CER ECJ0EB1A104K	B	64.5/36.3
C406	4030016940	S.CER ECJ0EB1A393K	B	66/39.5
C407	4030016930	S.CER ECJ0EB1A104K	T	31.1/18.4
C408	4030016790	S.CER ECJ0EB1C103K	B	6.8/28.4
C409	4030017420	S.CER ECJ0EC1H470J	T	39.3/43.7
C410	4550006970	S.TAN TEESVAOG476M8R	T	4.1/33.9
C411	4030016930	S.CER ECJ0EB1A104K	B	53/28.2
C412	4030016930	S.CER ECJ0EB1A104K	T	5.7/28.1
C413	4550006970	S.TAN TEESVAOG476M8R	T	1.8/33.9
C414	4030018860	S.CER ECJ0EB0J105K	T	30.5/35.1
C415	4030017770	S.CER ECJ0EB1E332K	T	2.3/18.4
C416	4550007030	S.TAN TEESVP OJ 106M8R	B	2.2/25.1
C417	4030016930	S.CER ECJ0EB1A104K	B	2.6/23
C418	4030016930	S.CER ECJ0EB1A104K	T	32/18.4
C419	4030016930	S.CER ECJ0EB1A104K	T	36.1/33.3
C420	4030016930	S.CER ECJ0EB1A104K	T	37.9/30.8
C421	4030016930	S.CER ECJ0EB1A104K	B	50.3/42.8
C422	4030016930	S.CER ECJ0EB1A104K	T	51.9/11.3
C423	4030016930	S.CER ECJ0EB1A104K	T	33.7/34.3
C424	4030016930	S.CER ECJ0EB1A104K	T	35.3/29.3
C425	4030016930	S.CER ECJ0EB1A104K	B	27.7/31.7
C426	4030016930	S.CER ECJ0EB1A104K	B	27.9/22.1
C427	4030017630	S.CER ECJ0EC1H120J	T	14.2/41.7
C428	4030017350	S.CER ECJ0EC1H020B	T	16.7/37.6
C429	4030016930	S.CER ECJ0EB1A104K	T	52.1/10.4
C430	4030017700	S.CER ECJ0EC1H151J	T	17.6/38.3
C431	4030017030	S.CER ECJ0EB1A273K	T	32.1/23.3
C432	4030017460	S.CER ECJ0EB1E102K	B	46.2/16.9
C433	4030018860	S.CER ECJ0EB0J105K	T	20.4/40.7
C434	4030017400	S.CER ECJ0EC1H220J	T	16.5/41.9
C435	4030016930	S.CER ECJ0EB1A104K	B	29.6/20.6
C436	4030017460	S.CER ECJ0EB1E102K	B	27.7/34.7
C440	4030017460	S.CER ECJ0EB1E102K	B	88.7/40.4
C441	4550006780	S.TAN TEESVB2 OJ 476M8R	T	2.7/12.6
C442	4030016930	S.CER ECJ0EB1A104K	B	110.9/45
C443	4030016930	S.CER ECJ0EB1A104K	B	43.4/10
C444	4030016930	S.CER ECJ0EB1A104K	B	32.1/9.2
C445	4030017460	S.CER ECJ0EB1E102K	T	20.1/38.5
C446	4030016930	S.CER ECJ0EB1A104K	T	26.5/16.3
C447	4030016930	S.CER ECJ0EB1A104K	B	34.6/15.3
C448	4030016930	S.CER ECJ0EB1A104K	B	36.8/17.2
C449	4030016930	S.CER ECJ0EB1A104K	T	37.4/38.1
C450	4030016930	S.CER ECJ0EB1A104K	T	35.3/39.8
C451	4030016930	S.CER ECJ0EB1A104K	B	36.8/44.3
C452	4030016930	S.CER ECJ0EB1A104K	B	37.7/44.3
C453	4030016930	S.CER ECJ0EB1A104K	B	38.8/44.3
C454	4030018860	S.CER ECJ0EB0J105K	T	42.1/22.7
C455	4550006780	S.TAN TEESVB2 OJ 476M8R	T	45.9/18.4
C456	4030017460	S.CER ECJ0EB1E102K	T	71.7/5.3
C457	4030017420	S.CER ECJ0EC1H470J	B	46.7/44
C458	4030017460	S.CER ECJ0EB1E102K	B	70.4/9.5
C459	4030017460	S.CER ECJ0EB1E102K	B	57.2/13.2
C460	4030017460	S.CER ECJ0EB1E102K	B	58.4/13
C461	4030017730	S.CER ECJ0EB1E471K	T	72.6/5.3
C462	4550006250	S.TAN TEESVA 1A 106M8R	B	103.4/41.4
C601	4030016790	S.CER ECJ0EB1C103K	T	11/32.3
C602	4030016790	S.CER ECJ0EB1C103K	T	7.3/40.9
C603	4030017380	S.CER ECJ0EC1H050B	T	9.9/40.1
C604	4030016930	S.CER ECJ0EB1A104K	T	11.5/40.9
C605	4030017460	S.CER ECJ0EB1E102K	T	8.1/38
C606	4030016930	S.CER ECJ0EB1A104K	T	8.5/41.8
C607	4030017620	S.CER ECJ0EC1H100C	T	7.9/43.1
C608	4030018910	S.CER C1608 JB 0J 475K-T	T	6.6/33.8
C609	4030018910	S.CER C1608 JB 0J 475K-T	T	6.5/35.8
C610	4030016930	S.CER ECJ0EB1A104K	T	13.5/44.4
C611	4030018910	S.CER C1608 JB 0J 475K-T	B	3.8/15.4
C612	4030016930	S.CER ECJ0EB1A104K	B	3.8/16.5
C614	4030016930	S.CER ECJ0EB1A104K	B	3.8/14.3
C615	4030016930	S.CER ECJ0EB1A104K	B	10.6/10.8
C616	4030016950	S.CER ECJ0EB1A473K	B	8.3/10.8
C617	4030018860	S.CER ECJ0EB0J105K	B	6.6/10.8
C618	4030016790	S.CER ECJ0EB1C103K	T	5.7/31.5
C619	4030016930	S.CER ECJ0EB1A104K	B	13.3/6.9
C620	4030018860	S.CER ECJ0EB0J105K	T	5.7/30.5
C621	4030018860	S.CER ECJ0EB0J105K	B	10.1/20.9
C623	4030016950	S.CER ECJ0EB1A473K	B	10.6/9.9
C624	4030016790	S.CER ECJ0EB1C103K	T	21.3/16.6
C625	4030017460	S.CER ECJ0EB1E102K	B	20.9/10.5
C626	4030017460	S.CER ECJ0EB1E102K	B	13.6/20.1
C627	4030018860	S.CER ECJ0EB0J105K	B	12.2/18.5
C628	4030018860	S.CER ECJ0EB0J105K	B	9/9
C629	4030016790	S.CER ECJ0EB1C103K	B	16.4/16.7
C630	4030017420	S.CER ECJ0EC1H470J	B	13.6/19.2
C631	4030016930	S.CER ECJ0EB1A104K	B	18.2/14.9
C632	4030017420	S.CER ECJ0EC1H470J	B	8.1/7.2
C633	4030017450	S.CER ECJ0EB1E271K	B	18.5/13.7
C634	4030016930	S.CER ECJ0EB1A104K	B	23.7/20
C635	4030017730	S.CER ECJ0EB1E471K	B	17.3/11.6
C636	4030017460	S.CER ECJ0EB1E102K	T	21.1/22.4
C637	4030016930	S.CER ECJ0EB1A104K	B	23.2/22.8
C638	4030017680	S.CER ECJ0EC1H820J	B	16.8/10.4
C639	4030017730	S.CER ECJ0EB1E471K	B	22.5/20.3
C640	4030018910	S.CER C1608 JB 0J 475K-T	T	22/24.5
C641	4030016930	S.CER ECJ0EB1A104K	B	24.8/17.4
C642	4030016930	S.CER ECJ0EB1A104K	B	19.6/5
C643	4030017590	S.CER ECJ0EC1H070C	B	19.6/14.6
C644	4030016930	S.CER ECJ0EB1A104K	B	17.9/16.5
C645	4030016930	S.CER ECJ0EB1A104K	B	17.9/18.3
C646	4030016930	S.CER ECJ0EB1A104K	B	23.2/15.9
C647	4030018910	S.CER C1608 JB 0J 475K-T	B	17.9/19.4
C648	4030017460	S.CER ECJ0EB1E102K	B	10.3/23
C649	4030018860	S.CER ECJ0EB0J105K	B	16.4/41.6

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C650	4030016930	S.CER ECJ0EB1A104K	B	16.4/40.6
C651	4030018860	S.CER ECJ0EB0J105K	B	16.9/22.2
C652	4030016930	S.CER ECJ0EB1A104K	B	20.9/40.7
C653	4030018860	S.CER ECJ0EB0J105K	B	11.2/41.8
C654	4030016930	S.CER ECJ0EB1A104K	B	10/40.6
C655	4030017460	S.CER ECJ0EB1E102K	B	10/41.5
J401	2610000500	S.CON PB-614SS13-TF	T	60.2/12.9
J402	6510026770	S.CON AXK540147YG	T	25.1/34
J403	6510022221	S.CON 36FLZ-SM2-R-TB(LF)(SN)	T	34.7/9.2
J404	6510025240	S.CON IMSA-9631S-20Y912	T	74.9/10.2
J601	6510026220	S.CON AXK5F14547YG	T	12/6.8
S404	2260003120	SWI SKQJLBA010		
BT1	3020000340	LIT ML-614S/ZT		
EP1	6910015370	S.BEA ACZ1005Y-102-T	B	64.7/14.2
EP2	6910015370	S.BEA ACZ1005Y-102-T	T	78.1/26.3
EP3	6910012350	S.BEA MMZ1608Y 102BT	T	117.6/30.9
EP401	6910016330	S.BEA MMZ1005S 601CT-S	T	46.3/21.9
EP402	6910015370	S.BEA ACZ1005Y-102-T	T	30/23.1
EP601	6910016330	S.BEA MMZ1005S 601CT-S	B	5.5/16.7
EP602	6910016330	S.BEA MMZ1005S 601CT-S	T	6.1/38.5
EP603	6910016330	S.BEA MMZ1005S 601CT-S	T	23.2/16.2
EP604	6910016330	S.BEA MMZ1005S 601CT-S	T	11.1/11.1
MP1	6910014760	S.PLA OG-503040	B	79.9/27.4
MP2	8510018910	S.CAS 3062 VCO CASE Y1092	T	95.9/19.1

[FUSE UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200006190	S.COI BLM21PG300SN1D (BLM21P300S)	T	8.5/10.2
C1	4030016930	S.CER ECJ0EB1A104K	T	4.5/9.3
C2	4030017460	S.CER ECJ0EB1E102K	T	5.4/9.3
C3	4030017420	S.CER ECJ0EC1H470J	T	6.3/9.3
C4	4030017420	S.CER ECJ0EC1H470J	T	8.8/7.7
C5	4030017460	S.CER ECJ0EB1E102K	T	8.8/8.8
C6	4030016930	S.CER ECJ0EB1A104K	T	11.1/9.8
J1	6910016860	CON IMSA-9230B-1-02Z150-PT1		
F1	5210000970	S.FUS ERBSE3R00U	T	11/8.1

[ANT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200013450	S.COI 0.40-2.4-5TL 43.3N <COMO>	T	3.3/10.2
R1	7030003680	S.RES ERJ3GEYJ 104 V (100K)	T	2.6/6
C1	4030007050	S.CER C1608 CH 1H 220J-T	T	2.6/14.1
C3	4030009990	S.CER C1608 CH 1H 200J-T	T	2.6/7.6
C4	4030007030	S.CER C1608 CH 1H 150J-T	T	2.6/12.8

[VR UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R1	7210003300	VAR TP76N937N-21.5F-10KA-3062		
J1	6910011680	CON IMSA-9230B-1-04Z140-PT1		

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

[FRONT UNIT]

Table with 5 columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Lists various components such as IC1, Q1, Q2, D1, X1, L401, R1, R2, etc., with their respective part numbers and locations.

[FRONT UNIT]

Table with 5 columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Lists various components such as R55, R56, R57, R58, R59, R60, etc., with their respective part numbers and locations.

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



**[FRONT UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
S23	2230001060	S.SWI EVQ-PUL 02K	B	143.4/5.7
S25	2260002800	S.SWI SW-167 (SKQTLAE010)	B	128.9/46.9
S26	2260002800	S.SWI SW-167 (SKQTLAE010)	B	119.4/46.9
S27	2260002800	S.SWI SW-167 (SKQTLAE010)	B	109.9/46.9
EP401	6910015600	S.BEA ACZ1005Y-241 (240)	B	41.7/18.3
EP403	6910015370	S.BEA ACZ1005Y-102-T	B	37.9/24.2

**[JACK UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	9/35.4
D2	1790001810	S.VAR AVR-M1005C080MTABB	B	7.4/35.4
D3	1790001810	S.VAR AVR-M1005C080MTABB	B	10.3/33.6
D4	1790001810	S.VAR AVR-M1005C080MTABB	B	8.8/33.6
D5	1790001810	S.VAR AVR-M1005C080MTABB	B	7.9/33.6
D6	1790001810	S.VAR AVR-M1005C080MTABB	B	7/33.6
J1	6510026310	S.CON IMSA-9631S-14Y920	T	8.4/31.7
EP1	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/33.5
EP2	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/34.8
EP3	6910012350	S.BEA MMZ1608Y 102BT	B	5/36
EP4	6910012350	S.BEA MMZ1608Y 102BT	T	1.9/23.5

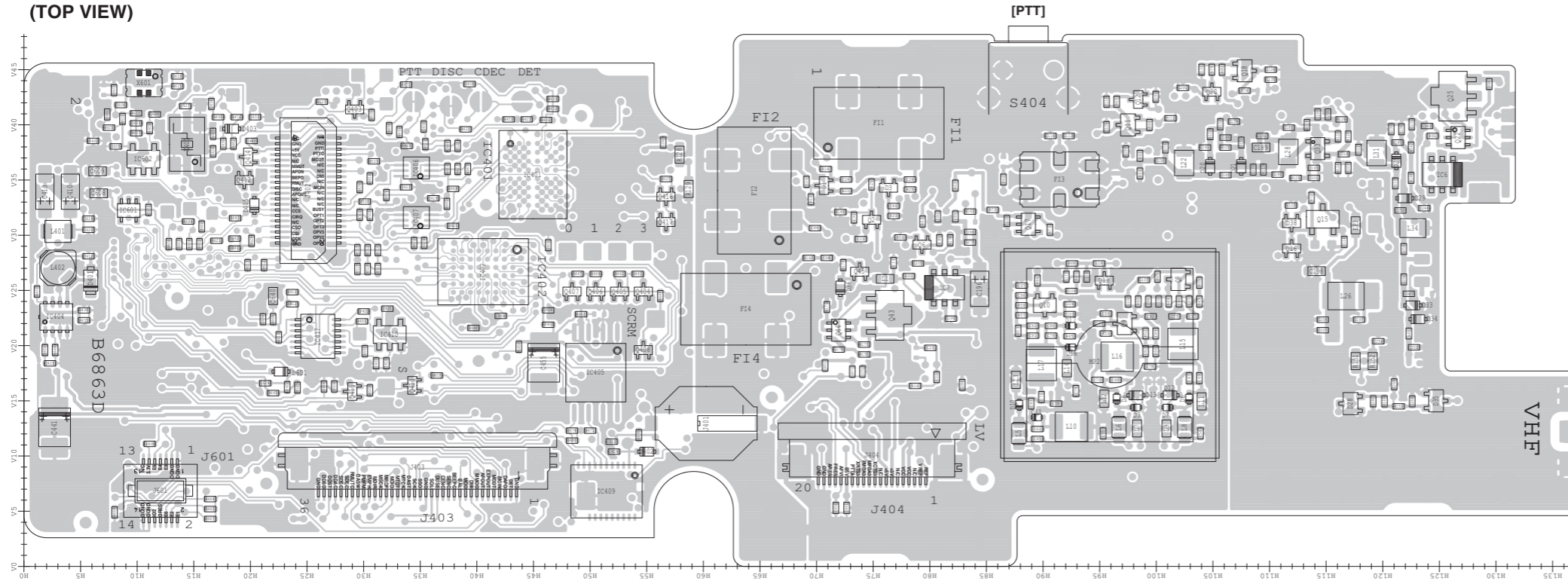
**[SW UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R2	7030005010	S.RES ERJ2GEJ 681 X (680)	T	4/9.9
J1	6510025260	S.CON IMSA-9631S-10Y912	B	6.5/3.3
J2	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	2.5/8.9

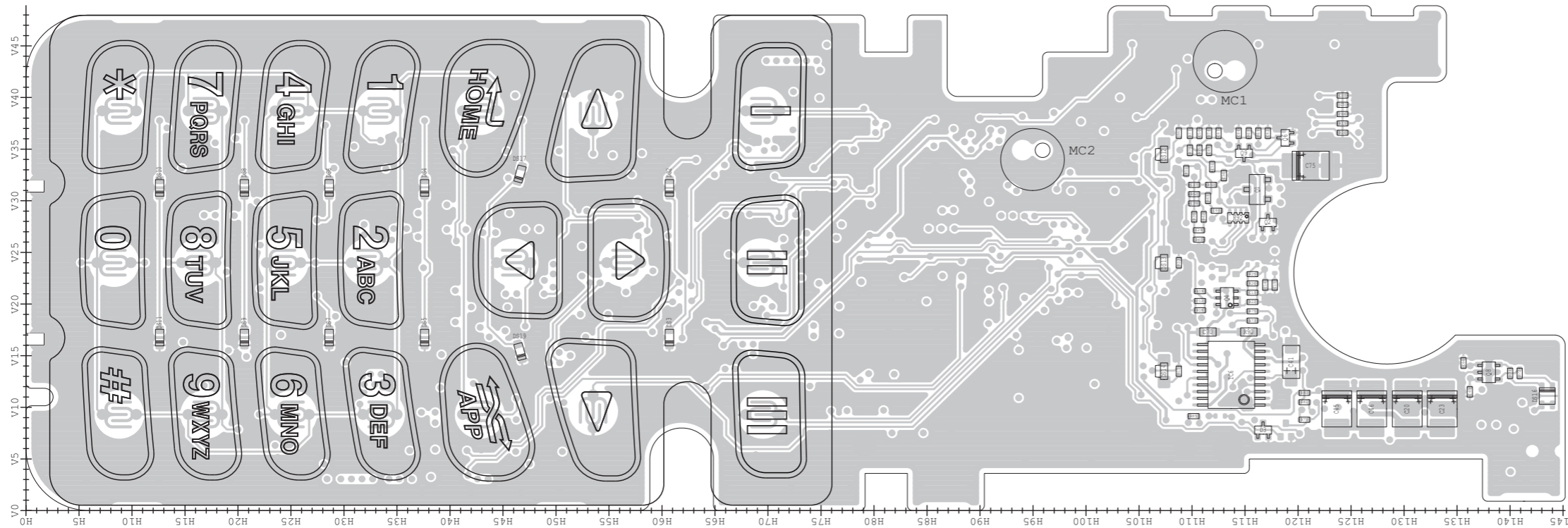
M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

# BOARD LAYOUTS

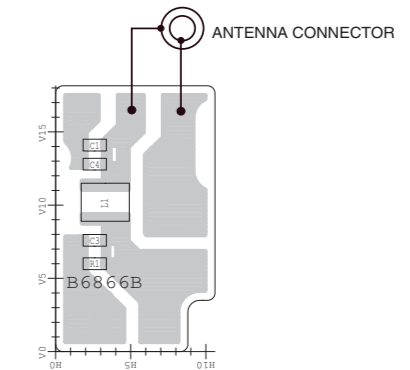
## • MAIN UNIT (TOP VIEW)



## • FRONT UNIT (TOP VIEW)

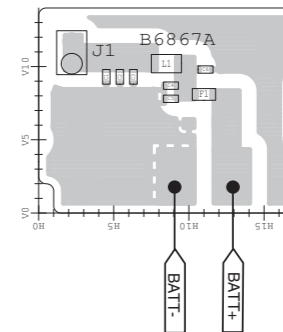


## • ANT UNIT (TOP VIEW)

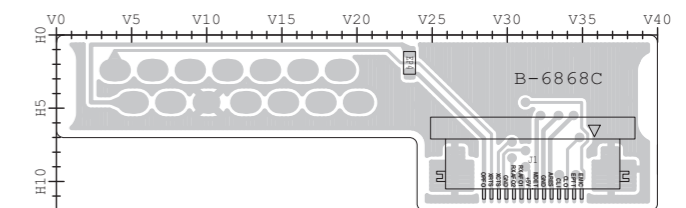


The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

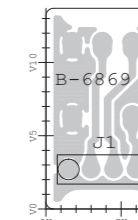
## • FUSE UNIT (TOP VIEW)



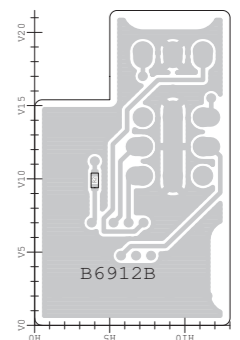
## • JACK UNIT (TOP VIEW)



## • VR UNIT (TOP VIEW)

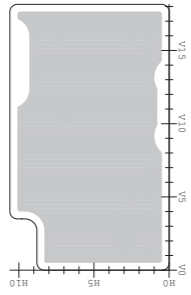


## • SW UNIT (TOP VIEW)

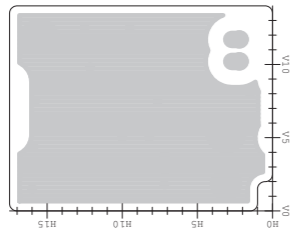


The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

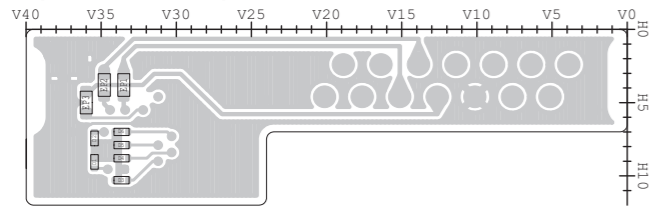
• ANT UNIT (BOTTOM VIEW)



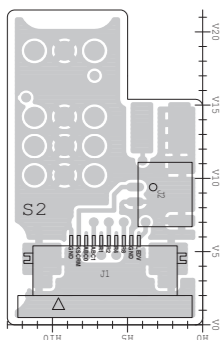
• FUSE UNIT (BOTTOM VIEW)



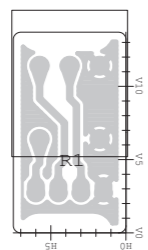
• JACK UNIT (BOTTOM VIEW)



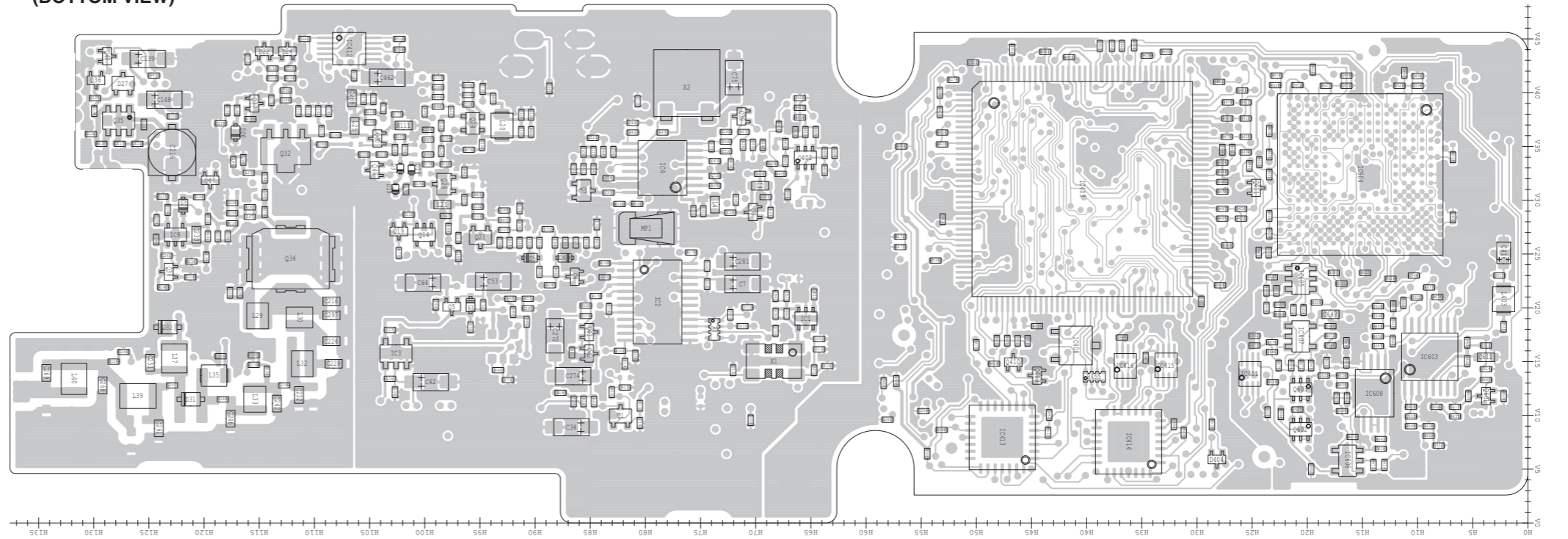
• SW UNIT (BOTTOM VIEW)



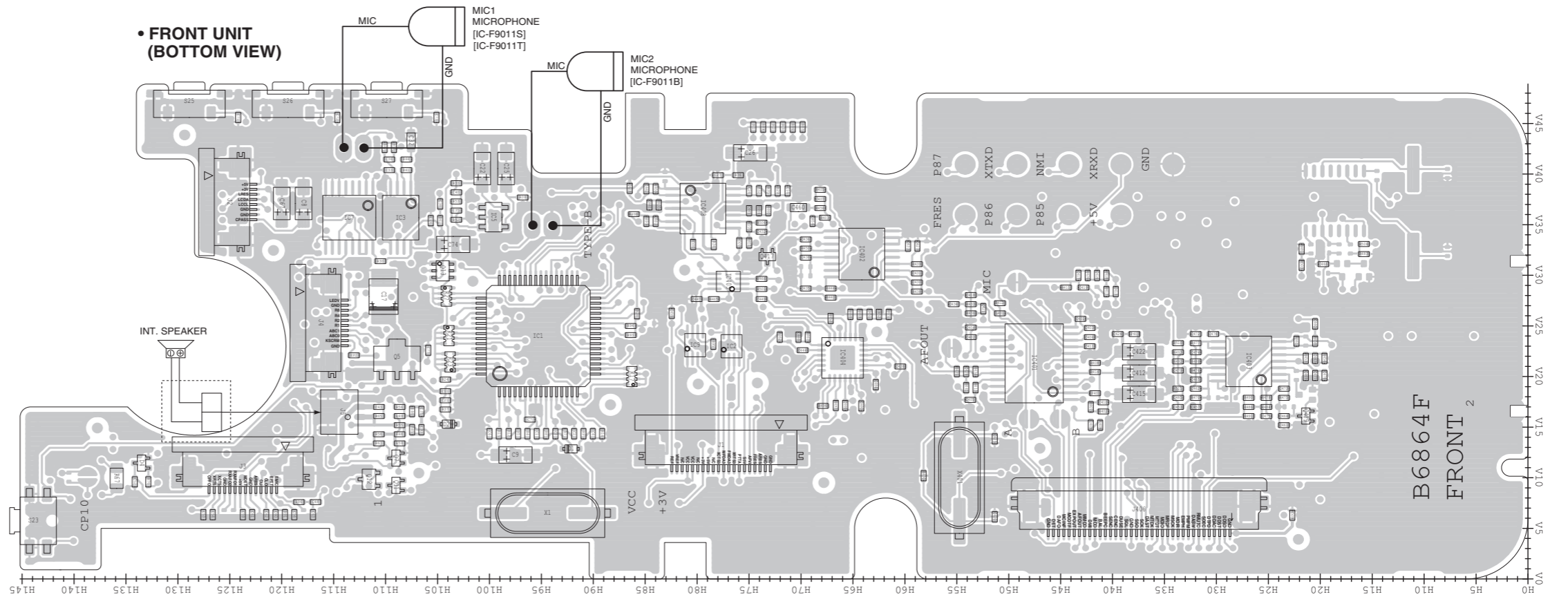
• VR UNIT (BOTTOM VIEW)



• MAIN UNIT (BOTTOM VIEW)

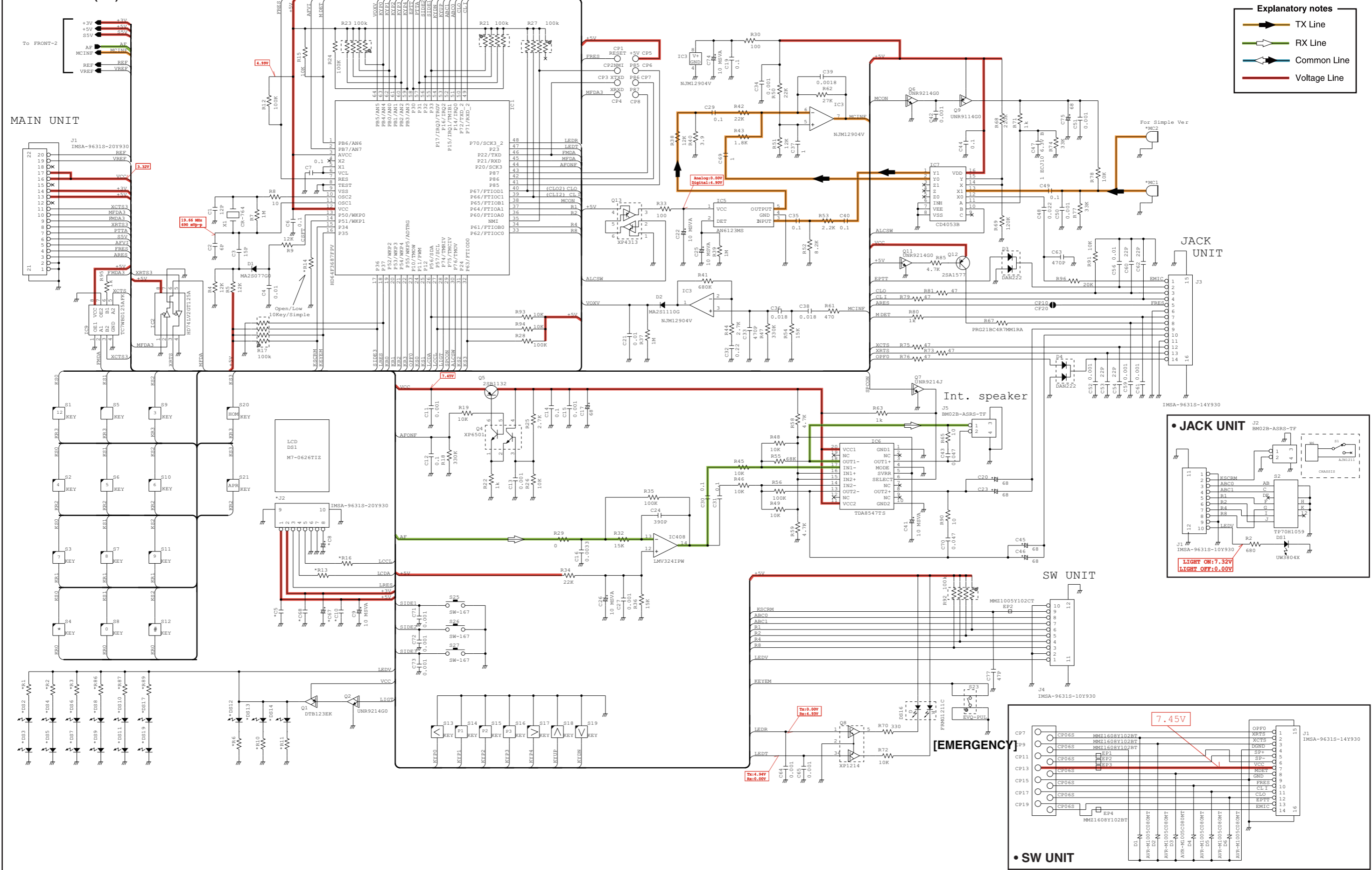


• FRONT UNIT (BOTTOM VIEW)



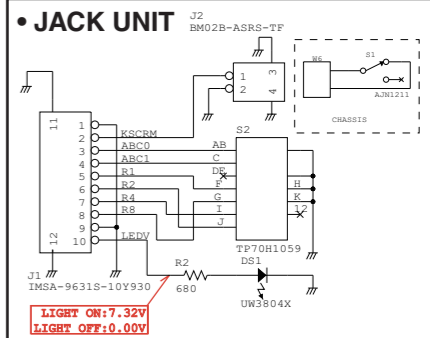
# VOLTAGE DIAGRAM

## • FRONT UNIT (1/2)



**Explanatory notes**

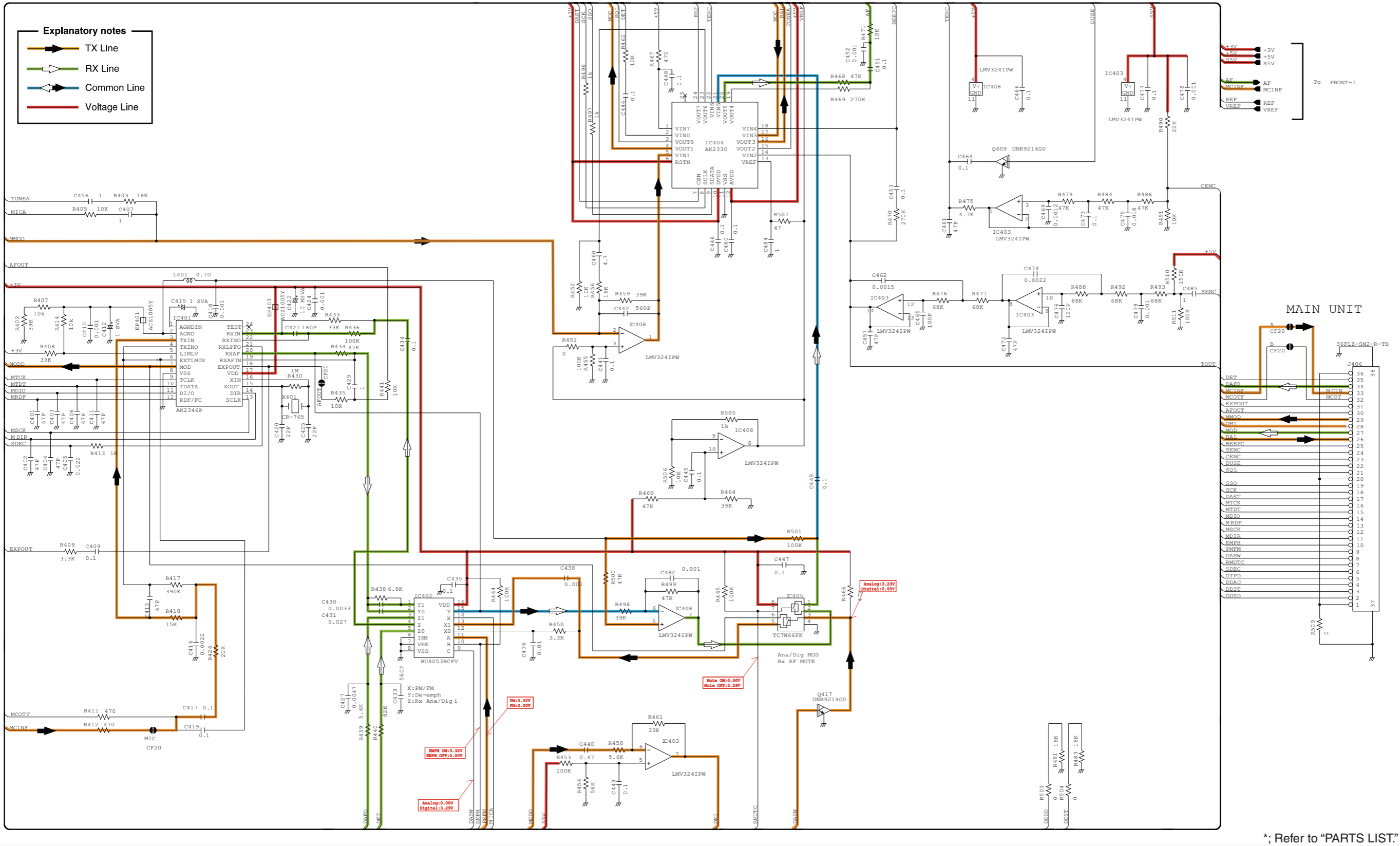
- TX Line
- RX Line
- Common Line
- Voltage Line



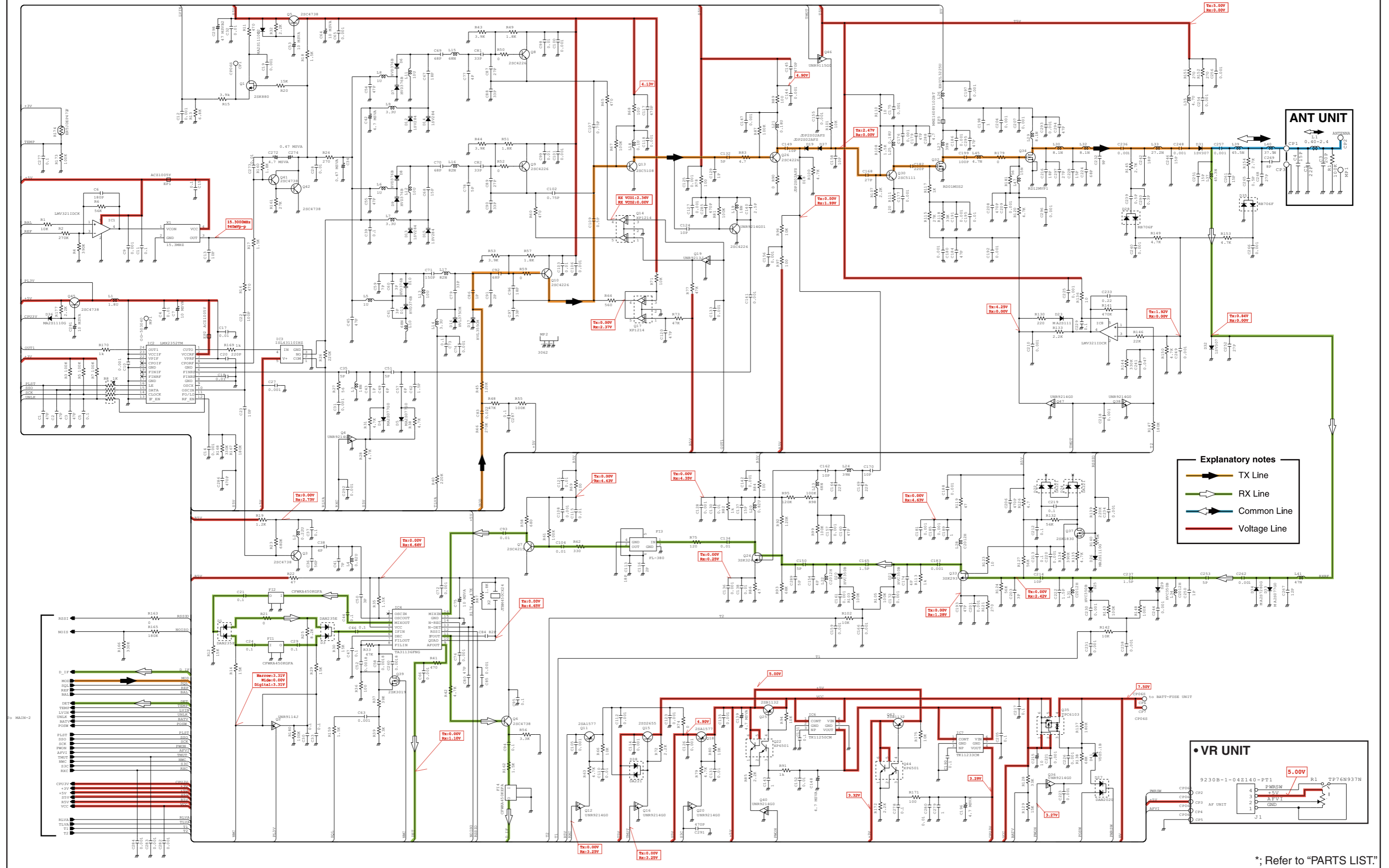
## • SW UNIT

\*; Refer to "PARTS LIST."

• FRONT UNIT (2/2)

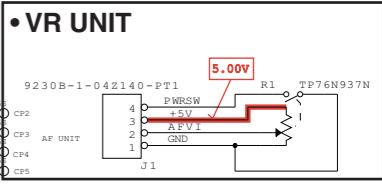


• MAIN UNIT (1/3)



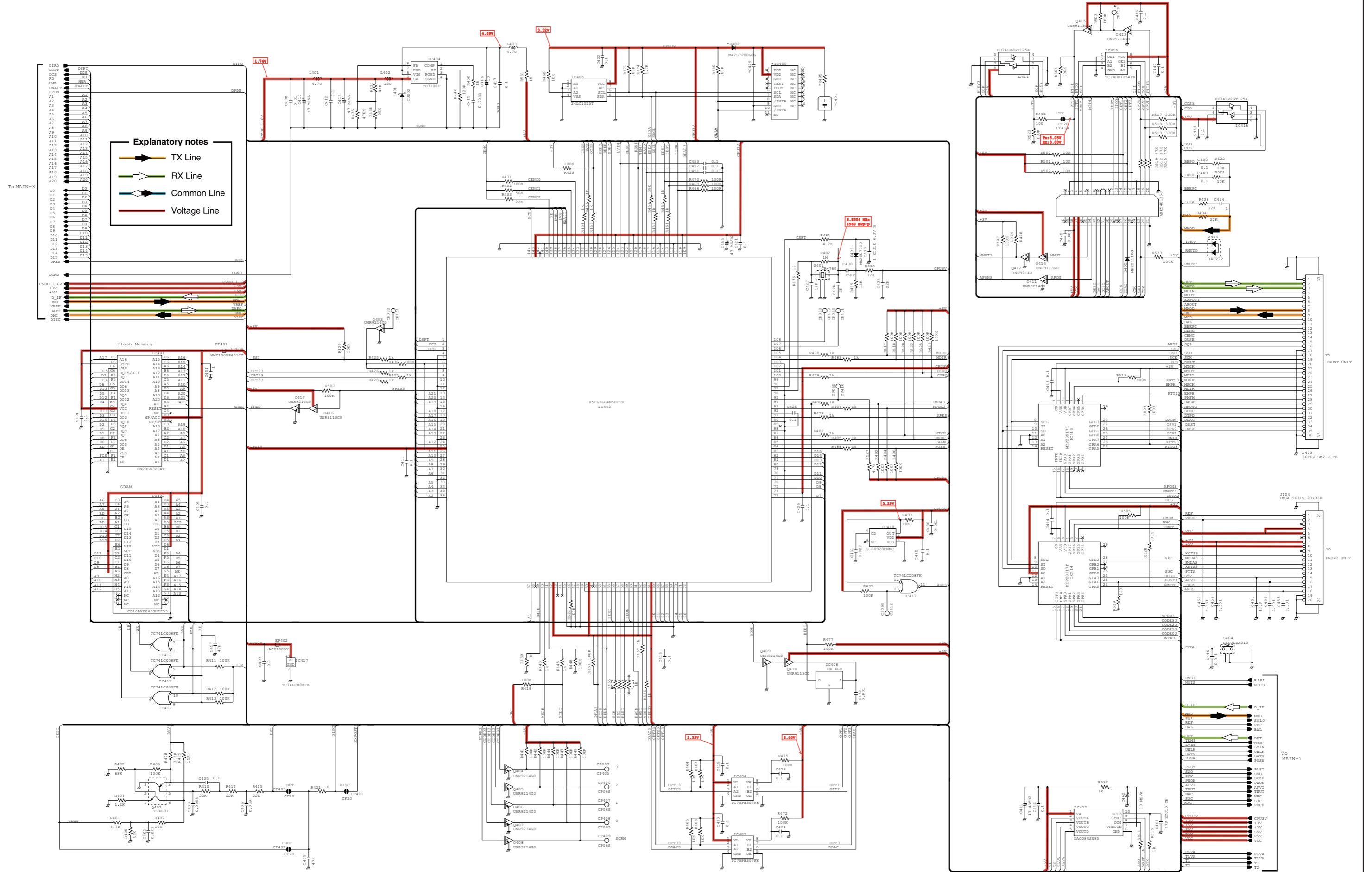
**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line



\*; Refer to "PARTS LIST."

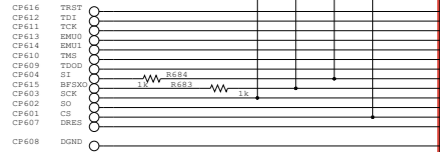
• MAIN UNIT (2/3)



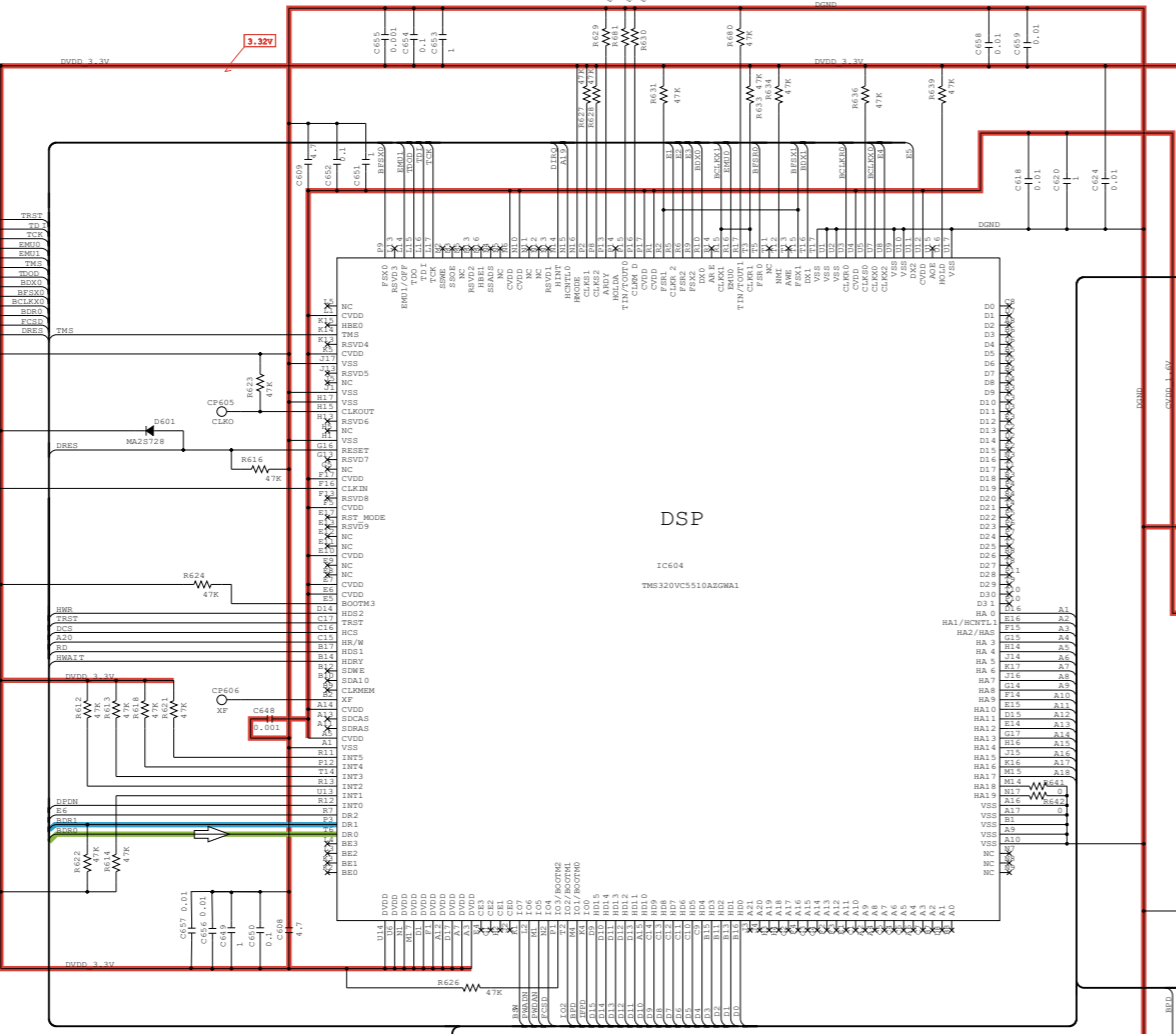
\*; Refer to "PARTS LIST."

• MAIN UNIT (3/3)

DSP FLASH



PCSD: CHIP SELECT of the DSP for the Flash memory.  
TDD0: IEEE Standard 1149.1 test data output.



DSP

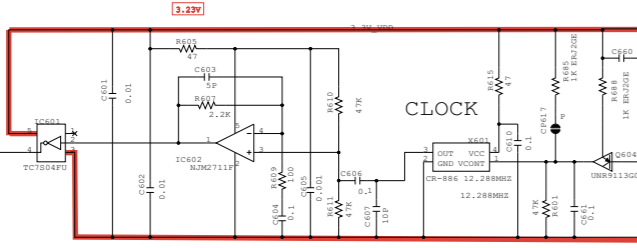
IC604  
TMS320VC5510AZDWR1

A/D

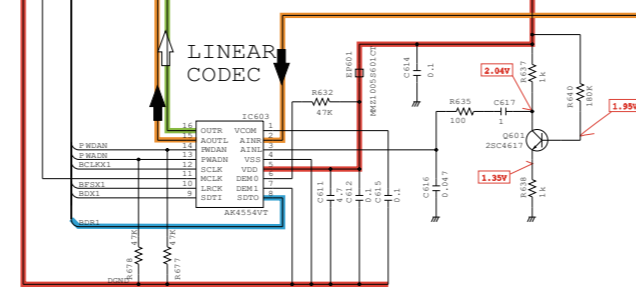
IC605  
AD7476ARTZ

**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line



CLOCK



LINEAR CODEC

\*; Refer to "PARTS LIST."



# SERVICE MANUAL

VHF P25 TRUNKING  
HANDHELD TRANSCEIVER

**IC-F9011B**  
**IC-F9011S**  
**IC-F9011T**

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S-14512XZ-C1  
Nov. 2008

## INTRODUCTION

This service manual describes the latest service information for the **IC-F9011B IC-F9011S IC-F9011T** VHF P25 TRUNKING HANDHELD TRANSCEIVER at the time of publication.

MODEL	VERSION	KEY PAD	LCD
IC-F9011B	USA-01	NO	NO
IC-F9011S		Simple-KEY	YES
IC-F9011T		Full-KEY	

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

**UNIT ABBREVIATIONS:**  
F=FRONT UNIT  
M=MAIN UNIT

## CAUTION

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

**DO NOT** expose the transceiver to rain, snow or any liquids.

**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.



## ORDERING PARTS

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

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

### <ORDER EXAMPLE>

1110003491 S.IC TA31136FNG IC-F9011B/S/T MAIN UNIT 5 pieces  
8820001210 Screw 2438 screw IC-F9011B/S/T 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 test equipment thoroughly before connecting a test equipment to the transceiver.

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### ■ GENERAL

• Frequency range	: 136–174 MHz
• Number of conventional channels	: max. 512 ch (128 zones)
• Type of emission	: Wide 16K0F3E Narrow 11K0F3E Digital 8K10F1E/8K10F1D
• Antenna impedance	: 50 Ω (Nominal)
• Operating temperature range	: –30°C to +60°C; –22°C to +140°C
• Power supply voltage	: Specified Icom's battery packs only (7.2 V DC; negative ground)
• Current drain (Approx.)	: Receiving 300 mA (stand-by) 800 mA (max. audio) Transmitting 2.2 A (at 6.0 W)
• Dimensions (Projections not included)	: 58.6 (W)×167 (H)×41.8 (D) mm; 2 5/16 (W)×6 9/16 (H)×1 21/32 (D) in.
• Weight (Incl. BP-254)	: Approx. 533 g; 18 13/16 oz.

### ■ TRANSMITTER

• Output power	: 6 W
• Modulation	: Variable reactance frequency modulation
• Maximum frequency deviation	: ±5.0 kHz (Wide) ±2.5 kHz (Narrow) Max. pattern: ±2.85 kHz (Digital) Min. pattern: ±0.95 kHz (Digital)
• Frequency stability	: ±1.00 ppm
• Spurious emissions	: 75 dB typ.
• Adjacent channel power	: 60 dB min. (Narrow) 70 dB min. (Wide) 67 dB min. (Digital)
• Audio harmonic distortion	: 2% typ. (at 40% deviation)
• FM hum and Noise	: 34 dB min. 40 dB typ. (Narrow) 40 dB min. 45 dB typ. (Wide)
• Audio frequency response	: +2 dB to –8 dB of 6 dB/octave from 300 Hz to 2550 Hz (Narrow) from 300 Hz to 3000 Hz (Wide)
• Limiting charact of modulator	: 60–100% of max. deviation
• Input impedance (MIC)	: 2.2 kΩ

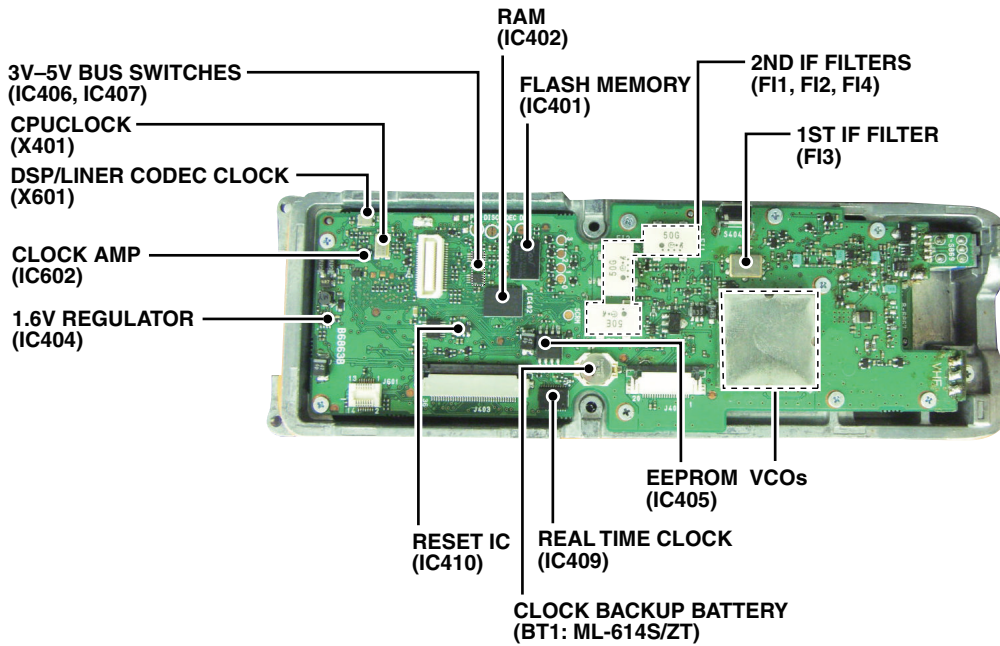
### ■ RECEIVER

• Sensitivity	: 0.25 μV typ. at 12 dB SINAD (Analog) 0.30 μV typ. at 5% BER (Digital)
• Squelch sensitivity (at threshold)	: 0.25 μV typ.
• Intermediate frequency	: 1st IF; 46.35 MHz, 2nd IF; 450 kHz
• Adjacent channel selectivity	: Narrow 45 dB min., 48 dB typ. (TIA/EIA603B) 65 dB min., 70 dB typ. (TIA/EIA603) Wide 70 dB min., 75 dB typ. (TIA/EIA603B) 75 dB min., 80 dB typ. (TIA/EIA603) Digital 53 dB min., 60 dB typ.
• Spurious response	: 70 dB min., 80 dB typ.
• Intermodulation	: 70 dB min., 75 dB typ.
• Hum and noise	: 40 dB min., 45 dB typ. (Narrow) 45 dB min., 50 dB typ. (Wide)
• Audio output power	: 1.0 W typ. (BTL) at 10% dist. with an 8 Ω load
• Audio output impedance	: 8 Ω

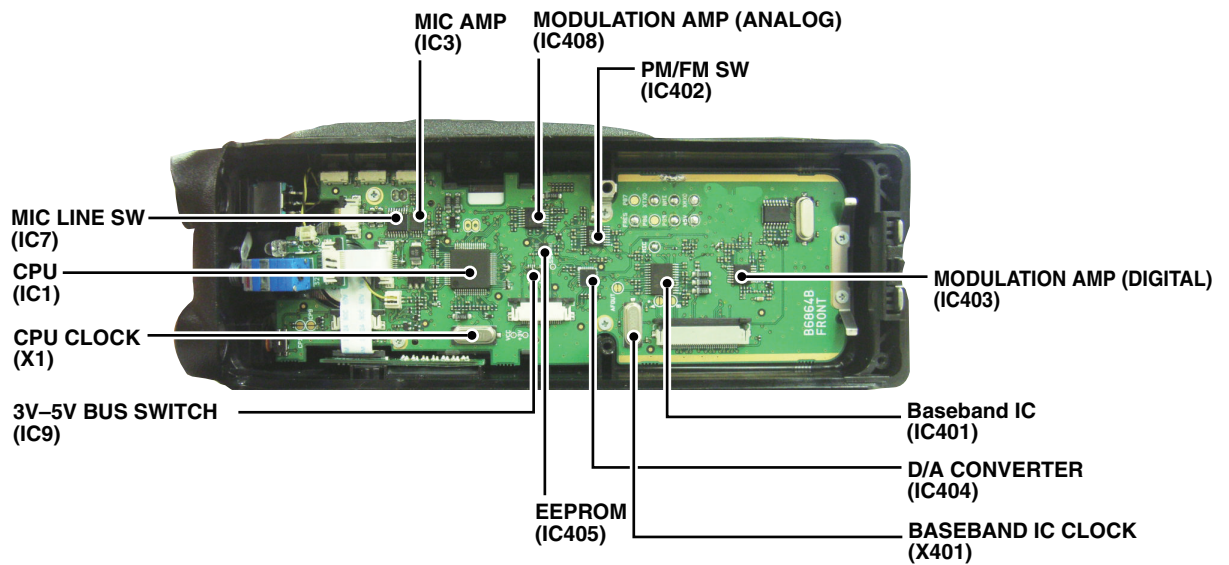
Specifications are measured in accordance with TIA/EIA-102 (Digital), TIA/EIA-603B (Analog)

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

## • MAIN UNIT (TOP VIEW)



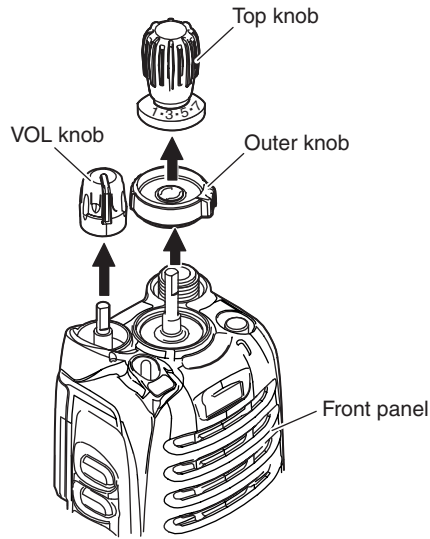
## • FRONT UNIT (TOP VIEW)



# SECTION 3 DISASSEMBLY INSTRUCTION

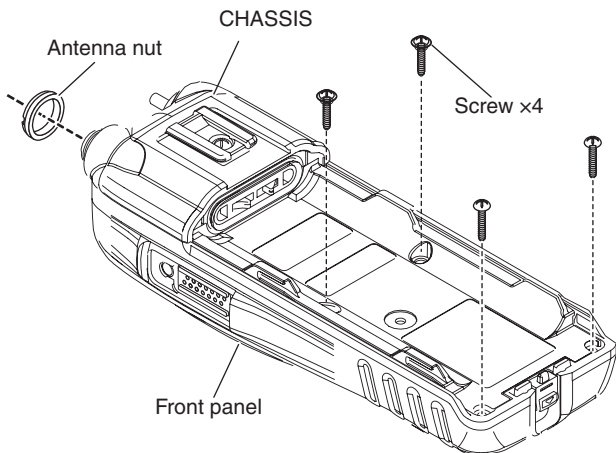
## 1. Separating the front panel from CHASSIS

① Remove total of 3 knobs.

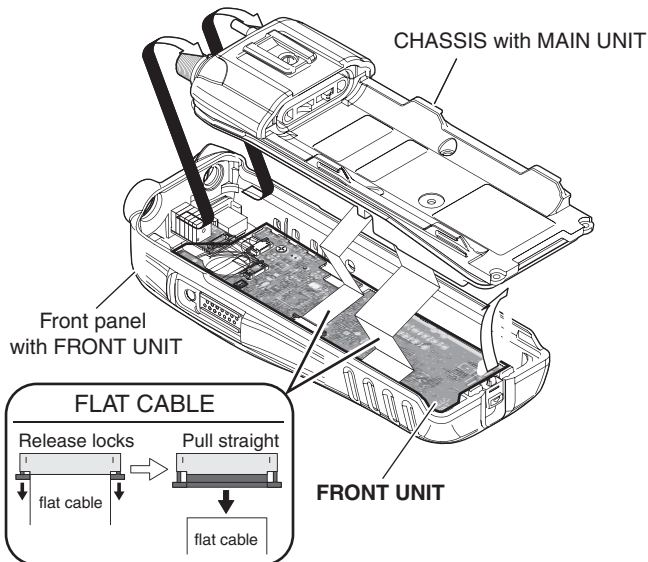


② Remove the antenna nut.

③ Unscrew 4 screws from the rear.



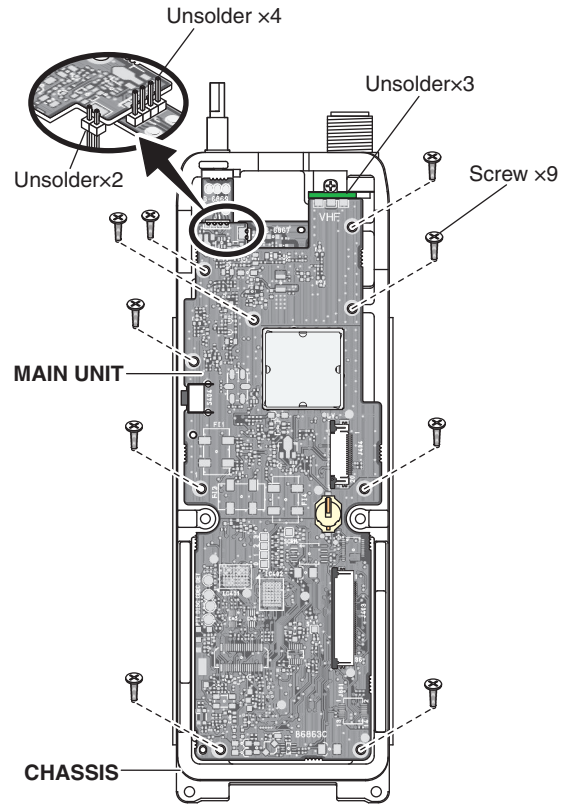
④ Disconnect 2 flat cables from the FRONT UNIT, and remove the CHASSIS from the front panel.



## 2. Removing MAIN UNIT

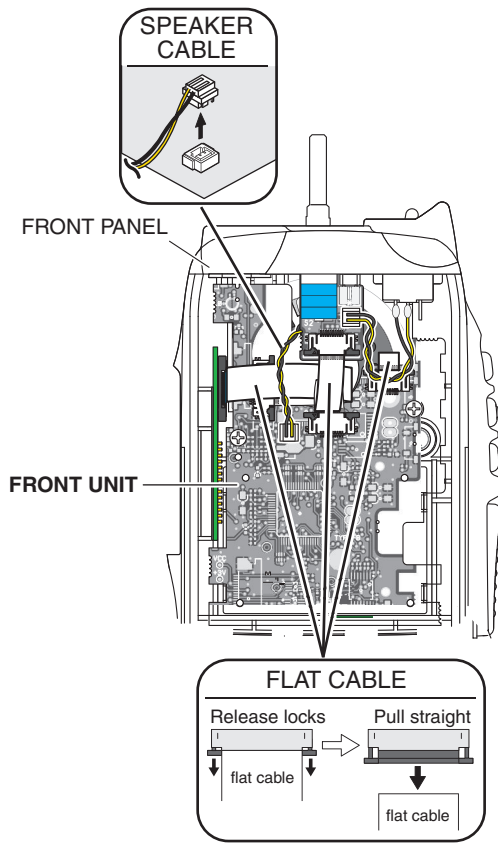
① Unscrew 9 screws from the MAIN UNIT.

② Unsolder total of 9 points, and remove the MAIN UNIT from the CHASSIS.

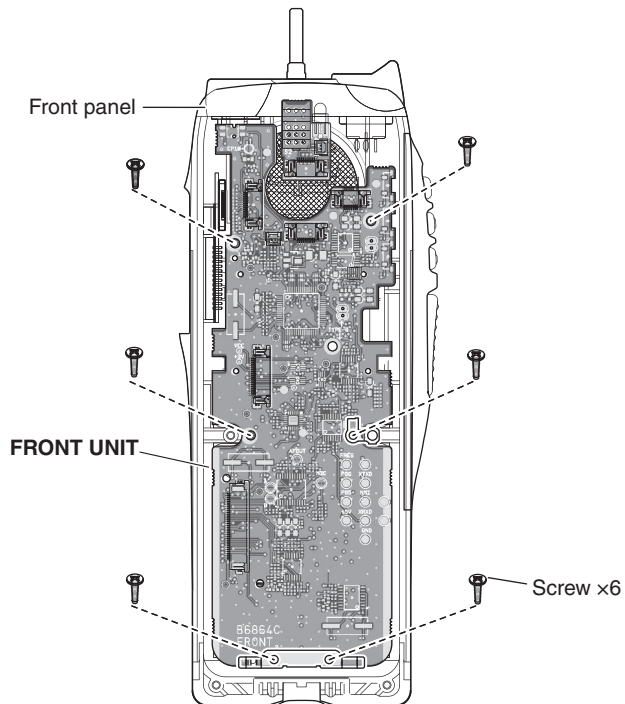


### 3. Removing FRONT UNIT

① Disconnect 3 flat cables from the FRONT UNIT.



② Unscrew total of 6 screws from the FRONT UNIT, and remove the FRONT UNIT from the front panel.

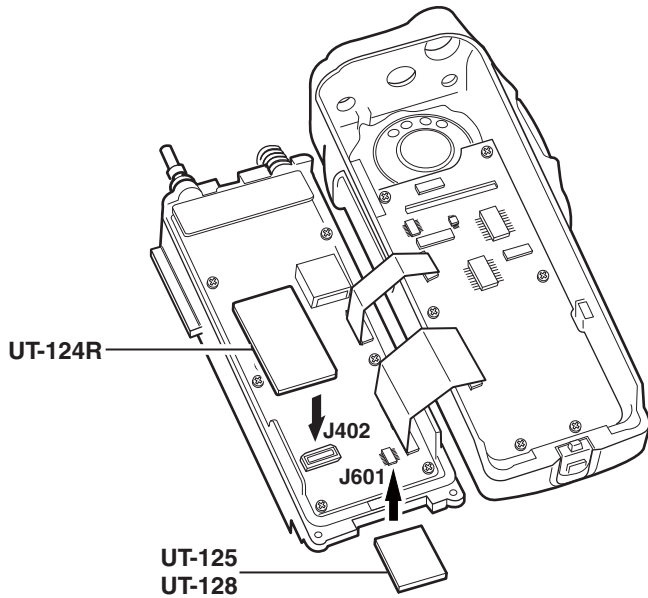


## SECTION 4 OPTIONAL UNIT INSTALLATION

**CAUTION!** Optional unit installation should be done at authorized Icom service center only.  
The waterproof capability of the transceiver cannot be guaranteed if you install an unit yourself, or have it done at a non-authorized dealer/service center.

Install the optional unit as follows.

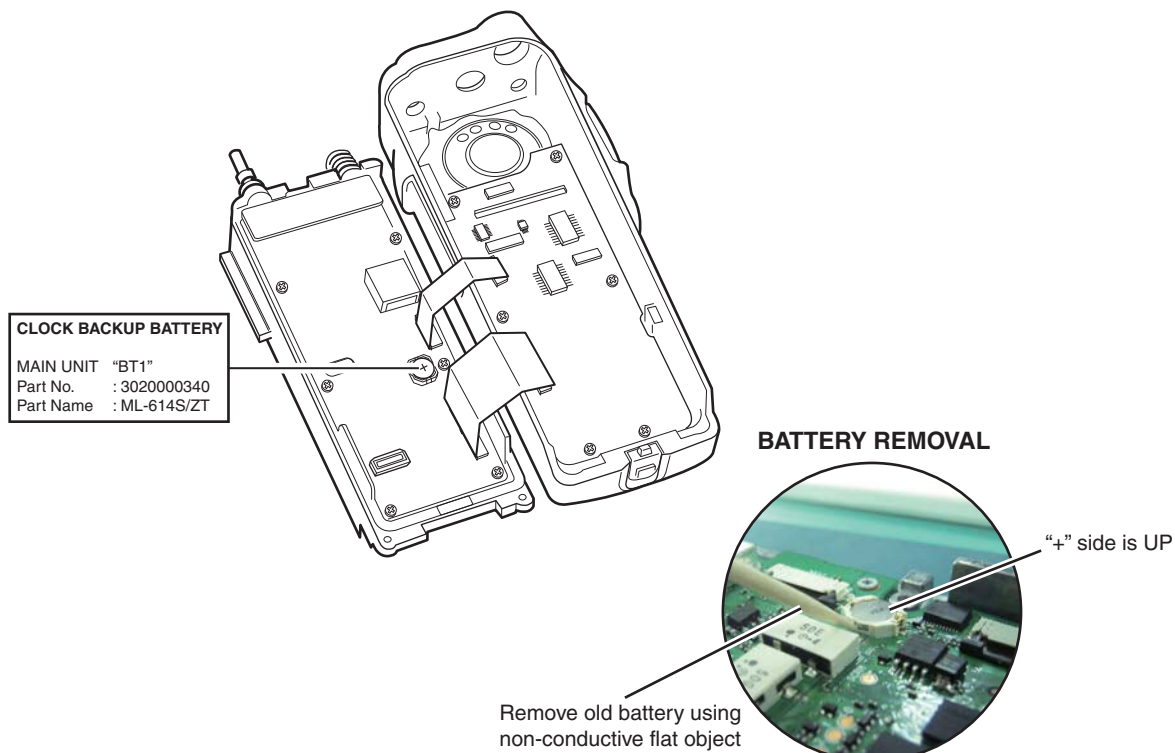
- ① Separate the front panel from the CHASSIS. (Refer to "DISASSEMBLY INSTRUCTION")
- ② Attach the unit as below.
- ③ Recover the transceiver, and set or modify the setting using optional cloning software.



### • CLOCK BACKUP BATTERY REPLACEMENT

When the backup battery is discharged, the transceiver transmits and receives normally but cannot retain the current time.

- ① Separate the front panel from the CHASSIS. (Refer to "DISASSEMBLY INSTRUCTION")
- ② Replace the clock backup battery, located on the FRONT UNIT as below. (Make sure the battery polarity is correct.)
- ③ Recover the transceiver, and re-set the date and time in set mode. (Refer to INSTRUCTION MANUAL)

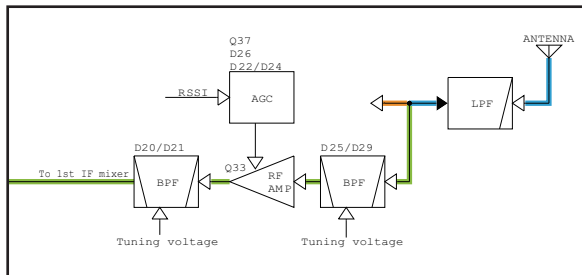


**5-1 RECEIVE CIRCUITS  
RF CIRCUITS (MAIN UNIT)**

RX signals from the antenna are passed through the LPF on the ANT UNIT, LPF (L39, 40, etc.), TX/RX SW (D31-33) and two-staged BPF (D25, 29, L31, 34). The filtered RX signals are amplified by the low noise RF AMP (Q33), and filtered by another two-staged BPF (D20, 21, L22, 28) to remove unwanted signals (such as image frequency signals), then applied to the 1st mixer (Q24).

BPFs are tuned by the tuning voltage from the D/A converter (IC412) for suitable tracking response.

**• RF CIRCUITS**



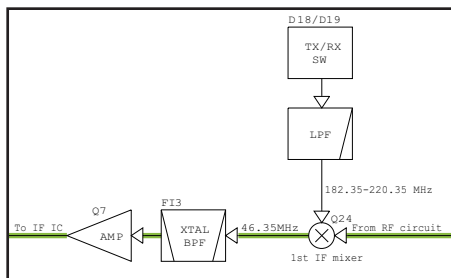
**1ST IF MIXER (MAIN UNIT)**

The 1st mixer (Q24) converts the RX signals into the fixed 46.35 MHz 1st IF signal by mixing 1st LO signals from RX VCO with the RX signals.

**1ST IF FILTER AND AMPLIFIER (MAIN UNIT)**

The converted 1st IF signal is passed through the crystal filter (F13), amplified by 1st IF AMP (Q7), then applied to the IF IC (IC4).

**• 1ST IF CIRCUITS**



**2ND IF AND DEMODULATOR CIRCUITS (MAIN UNIT)**

The 46.35 MHz 1st IF signal and the 45.9 MHz 2nd LO signal is mixed with by the 2nd mixer in the IF IC (IC4), to be converted into the 450 kHz 2nd IF signal.

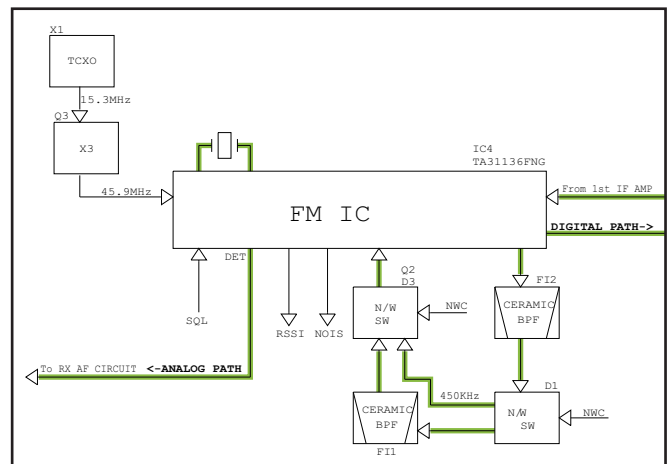
The tripled reference signal, which is generated by the TCXO (X1; 15.3 MHz), is used for the 2nd LO signal.

The converted 2nd IF signal is output from pin 3, and passed through the 2nd IF filter (F11 and F12; F11 for digital mode only) to remove unwanted signals.

**- IN ANALOG OPERATION -**

The filtered 2nd IF signal is applied to the IF IC (IC4, pin 4) again, and FM-demodulated by the quadrature detector circuit. The demodulated AF signals are output from pin 9 of IF IC (IC4), and applied to the RX AF circuit.

**• 2ND IF AND DEMODULATOR (ANALOG) CIRCUITS**

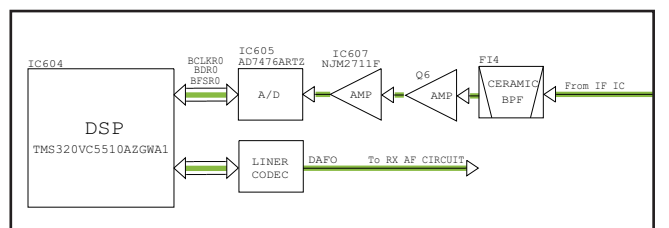


**- IN DIGITAL OPERATION -**

In digital mode, the 450 kHz 2nd IF signal is output from pin 11, and buffer-amplified by Q6, filtered by F14 and amplified by IC607 before being applied to the A/D converter (IC605) to be converted into the digital signal.

The converted digital signal is processed by the DSP (IC604), then decoded into the analog AF signals by the CODEC (IC603). The decoded AF signals are applied to the RX AF circuit.

**• DEMODULATOR CIRCUITS (DIGITAL)**



**RX AF CIRCUIT (FRONT UNIT)**

The demodulated/decoded AF signals from the demodulator circuit on the MAIN UNIT are passed through the Digital/ Analog AF line SW (IC402), and applied to the baseband IC (IC401).

The applied AF signals are amplified at the amplifier section and level adjusted at the volume controller section, then suppressed unwanted 3 kHz and higher audio signals at LPF. The filtered AF signals are applied (bypassed) the TX/ RX HPF, scrambler, de-emphasis sections in sequence.

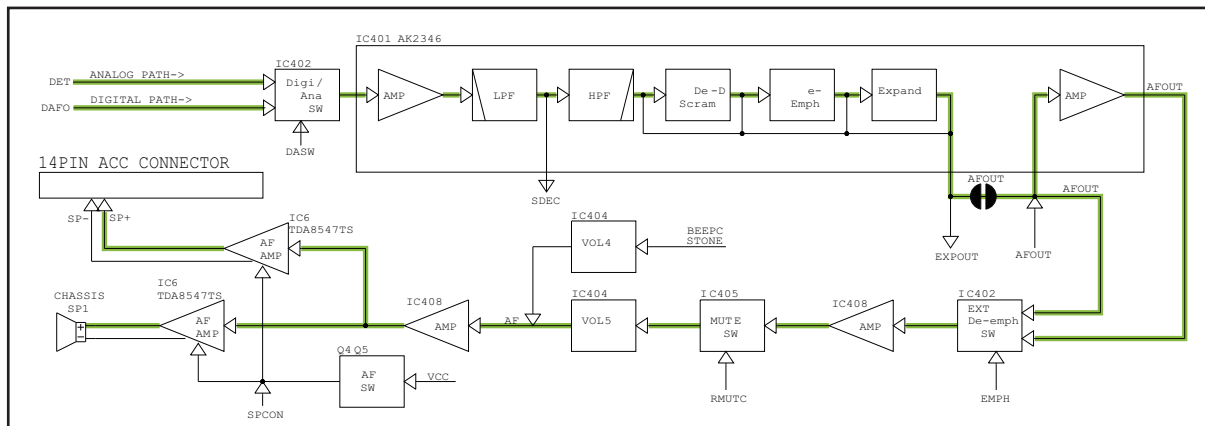
The TX/RX HPF filters out 250 Hz and lower audio signals, and the de-emphasis circuit obtains -6 dB/oct of audio characteristics. The expander expands the compressed audio signals and also noise reduction function is provided.

The AF signals are then level adjusted at the volume controller section and amplified at the amplifier section, then output from pin 20.

The processed AF signals from the base band IC (IC401) are passed through the de-emphasis SW (IC402) and amplified by IC408, passed through the AF mute SW (IC405) and level-adjusted by the D/A converter (IC404), then amplified by the pre-AMP (IC408), and power-amplified by the AF power AMP (IC6) to obtain AF output power level.

The power-amplified AF signals are applied to the internal/ external speaker.

**• RX AF CIRCUITS (ANALOG AND DIGITAL)**



## 5-2 TRANSMIT CIRCUITS

### TX AF CIRCUIT (FRONT UNIT)

The audio signals from the internal/external microphone are passed through the MIC line SW (IC7) and amplified by the MIC AMP (IC3), then applied to the baseband IC (IC401).

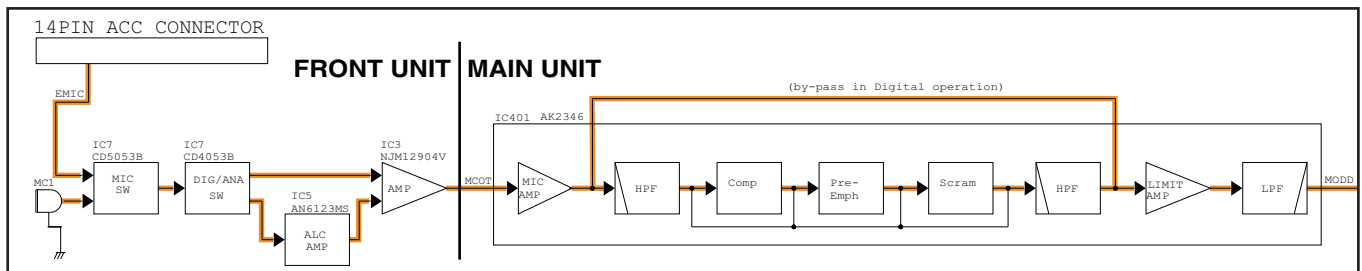
Only in digital mode operation, the MIC signals are passed through the ALC circuit (IC5) to prevent over deviation caused by a loud voice.

The applied MIC signals are amplified at the amplifier (TXA1), and level adjusted at the volume controller (VR1). The level adjusted MIC signals are applied (bypassed) the compressor section, pre-emphasis section, TX/RX HPF, de-scrambler, limiter, splatter, in sequence, then applied to another volume controller.

The compressor compresses the MIC signals to provide high S/N ratio for receive side, and the pre-emphasis obtains +6 dB/oct audio characteristics. The TX/RX HPF filters out 250 Hz and lower audio signals, the limiter limits its level and the splatter filters out 3 kHz and higher audio signals. The filtered MIC signals are level adjusted at another volume controller (VR2), and then output from pin 7 via smoothing filter (SMF).

The output MIC signals are applied to the modulation circuit as the modulation signals.

### • TX AF CIRCUITS (ANALOG AND DIGITAL)



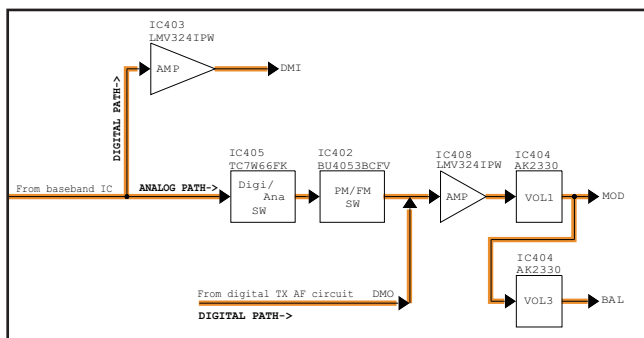
### - IN ANALOG OPERATION - (FRONT UNIT)

The modulation signals from the baseband IC (IC401) are passed through the Digital/Analog AF line SW (IC405) and the FM/PM SW (IC402) and composed with the sub-audible tone signals (CTCSS/DTCS). The modulation signals are then level-adjusted by the D/A converter (IC404) for deviation adjustment, and applied to the TX VCO and TCXO on the MAIN UNIT.

### - IN DIGITAL OPERATION - (MAIN UNIT)

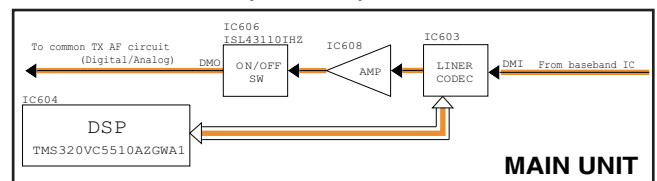
The modulation signals from the baseband IC (F; IC401) are amplified by IC403 (FRONT UNIT), and applied to CODEC (IC603) to be converted into the digital audio signals. The converted digital audio signals are processed by the DSP (IC604), then applied to the CODEC (IC603) again to be converted into the digital modulation signals. The converted digital modulation signals are amplified and filtered by IC608, and passed through the mute SW (IC606), then applied to the modulation circuit as the modulation signals.

### • COMMON TX AF CIRCUITS (ANALOG/DIGITAL)



The modulation signals are amplified by IC408, and level-adjusted by the D/A converter (IC404), then applied to the TX VCO.

### • TX AF CIRCUITS (DIGITAL)



**DRIVE AND POWER AMPLIFIERS (MAIN UNIT)**

The output signal from the TX VCO is passed through the LO SW (D19, 37), amplified by Q30 and Q32, then power-amplified by the power AMP (Q34).

**APC CIRCUIT (MAIN UNIT)**

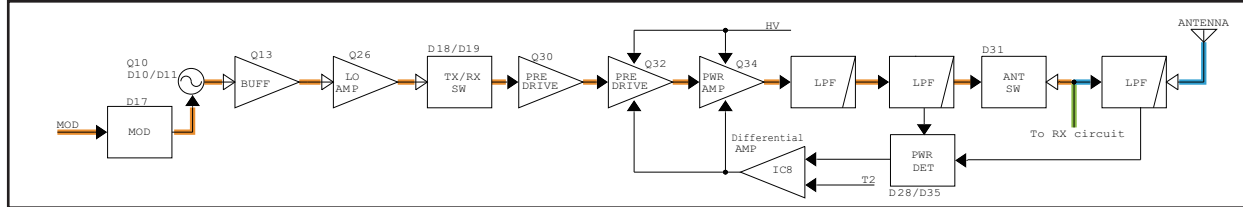
D28 and D35 detect a portion of TX output signal to convert it into DC voltage, and the voltage is applied to the differential AMP (IC8).

By comparing the detected voltage and the power setting voltage "T2" from the D/A converter (IC412), the differential AMP (IC8) controls the bias voltage to the gate terminal of pre-driver (Q32) and power AMP (Q34) to adjust the TX output power.

**ANTENNA SWITCHING CIRCUIT AND LPF (MAIN UNIT)**

The power amplified TX signals from the power AMP (Q34) is passed through the LPF of matching section (L30, 32, 33), ANT SW (D31) and LPF (L39, 40) to remove harmonic components, then applied to the antenna via the ANT UNIT.

**• MODULATION, TX AMPLIFIER AND APC CIRCUITS**



**5-3 VCOs AND PLL CIRCUIT (MAIN UNIT)**

The TX VCO is composed by Q10, D10, D11, D16, D17, L10 and L17. D17 is rolled to modulate the VCO oscillating signals using modulation signals.

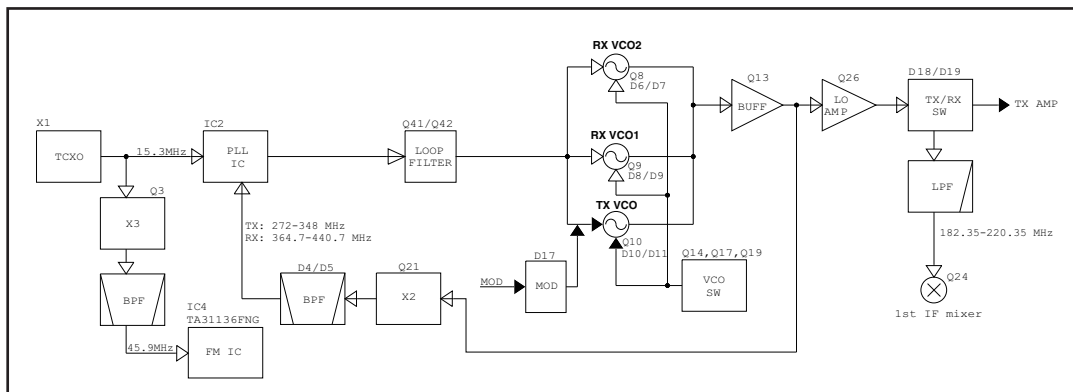
A portion of VCO output signal is doubled by the filter amp (Q21, D4, 5, L3, 19) to extract 2nd harmonic component, before being feedback to the PLL IC (IC2). The applied VCO output signal is divided and phase-compared with also divided 15.3 MHz reference frequency signal from the TCXO (X1). The resulting signal is output from pin 4 of the PLL IC (IC2), and DC-converted by the active loop filter (Q41, 42) then applied to the VCO as the lock voltage.

There are two RX VCOs; RX VCO1 and RX VCO2.

The RX VCO1 is composed by Q9, D8, D9 and L16, and oscillates LO signals for receiving 136–154.995 MHz. The RX VCO2 is composed by Q8, D6, D7 and L15, and oscillates LO signals for receiving 155–174 MHz.

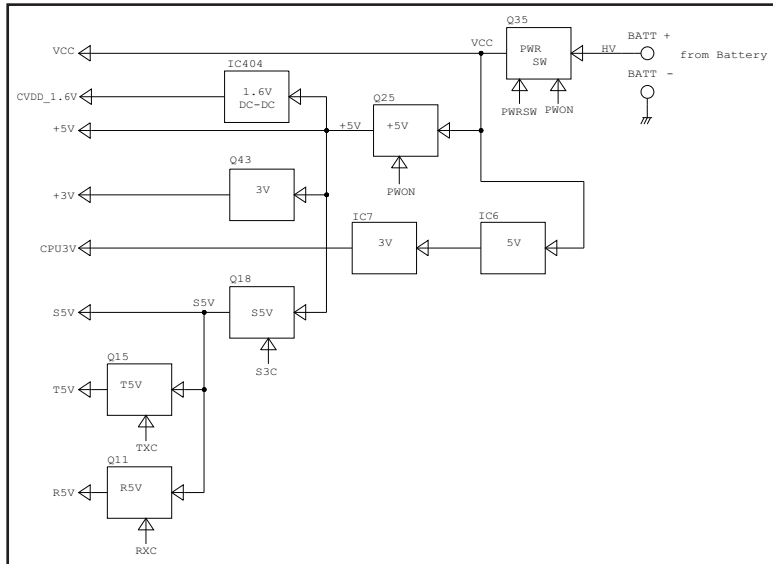
These VCOs are switched by the VCO SW (Q14, 17, 19). Output signals from these VCO is buffer-amplified by Q13 and Q26, and passed through LO SW (D18, 19, 37) before being applied to the TX amplifier circuit or 1st IF mixer.

**• FREQUENCY SYNTHESIZER CIRCUITS**



## 5-4 VOLTAGE BLOCK

Voltage from the battery pack is routed to the whole of the transceiver via regulators and switches.



## 5-5 CPU PORT ALLOCATION

Pin NO.	LINE NAME	I/O	DESCRIPTION	STATE
1	DSFT	O	DSP clock shift	L
2	FCS	O	External flash ROM	L
3	DCS	O	DSP dhip select	L
5	SSI	I	Serial bus (Shared)	H
13-37	A1-A21	O	External ROM	H
38	A0	O	N/C (Open)	H
49	FMDA3	I	Clone read (Front)	H
51	IGSW	I	Ignition SW	L
52	INTAB	I	I/O EXPANDER	L
53	NOIS	I	Noise detect (IF IC)	L
54	DPDN	O	Digital unit power down	L
55	NRXD	I	NMEA0183 Serial Port	H
56	SCK	O	Serial bus (Shared)	-
57	SSO	O	Serial bus (Shared)	H
58	PLST	O	Strobe for PLL IC (LMX2352)	H
60	PWON	O	Power supply	H
62	DAST	O	Strobe for D/A converter (AK2330)	L
63	VOST	O	DAC084S085(SYNC)	L
84	POSW	I	Power SW (Front)	L
85	CALM	I	RX-8025 (INTA)	L
86	MRDF	I	AK2346 (RDF/FD)	-
87	MTCK	I	AK2346 (TCLK)	L
93	MFDA3	O	Clone Read/Write (Front)	H
94	FMDA3	I	Clone Read/Write (Front)	H
100	CIRQ	I	C-bus line	L
101	DIRQ	I	DSP (HINT)	L
104	MDIR	O	AK2346 (DIR)	H
105	MDIO	I/O	AK2346 (DI/O)	H
106	CSFT	O	CPU clock shift	H
109	DDAC3	O	BU8872 (ACK)	-
111	DTPD	O	For ICE (E10A)	L
113	DDST	I	BU8872 (EST)	H
114	DDSD	I	BU8872 (SD)	H
116	ESCL	O	EEPROM (SCL)	-
117	ESDA	I/O	EEPROM (SDA)	L
118	BATV	A/D	Battery voltage	L
119	TEMP	A/N	Temperature	-
120	RSSI	A/D	RSSI detect (IF IC)	H
122	CDEC	A/D	Continuous tone decode	-
124	LVIN	A/N	Lock voltage monitor	-

Pin NO.	LINE NAME	I/O	DESCRIPTION	STATE
126	SDEC	A/N	Single tone decode	-
127	BEEP	D/A	Beep (Squarewave)	-
128	SENC	D/A	Single tone encode	-
130	CCS3	O	C-bus Chip Select	L
131	ECS	O	I/O expander	L
132	DRES	O	Digital reset	L
134-135	CENC0-CENC1	O	Continuous tone encode	H
136	HWAIT	I	DSP (HRDY)	L
140	CENC2	O	Continuous tone encode	H

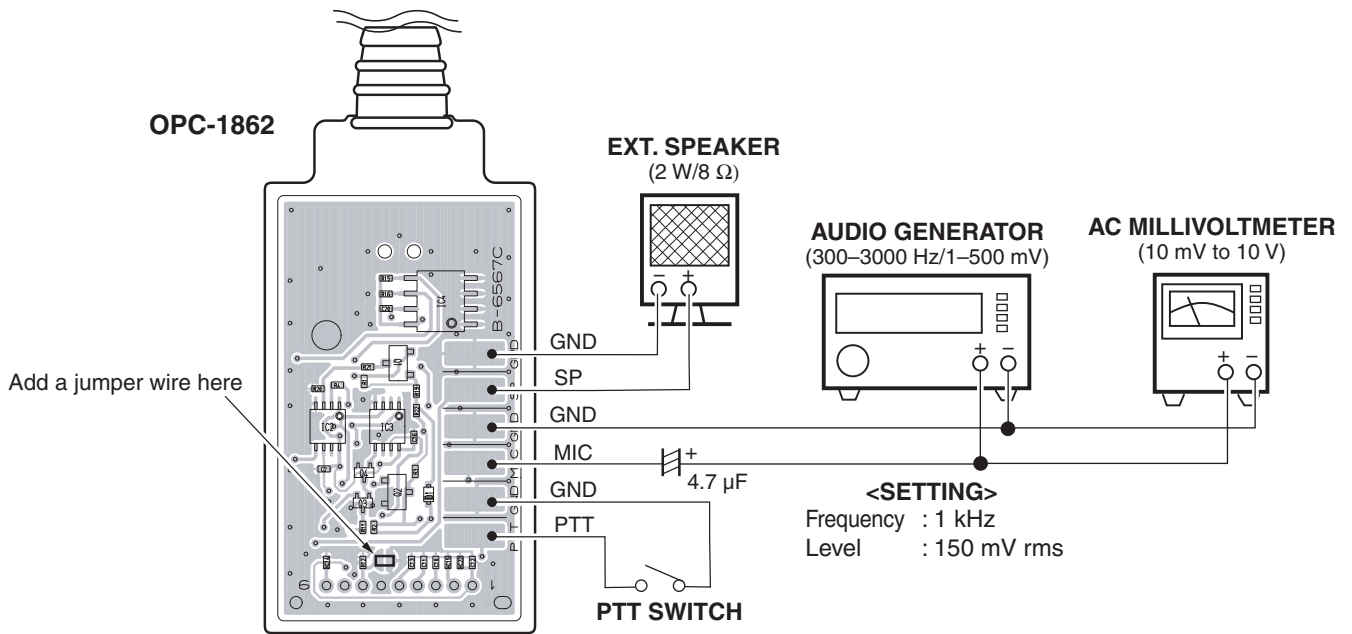
# SECTION 6 ADJUSTMENT PROCEDURE

## 6-1 PREPARATION

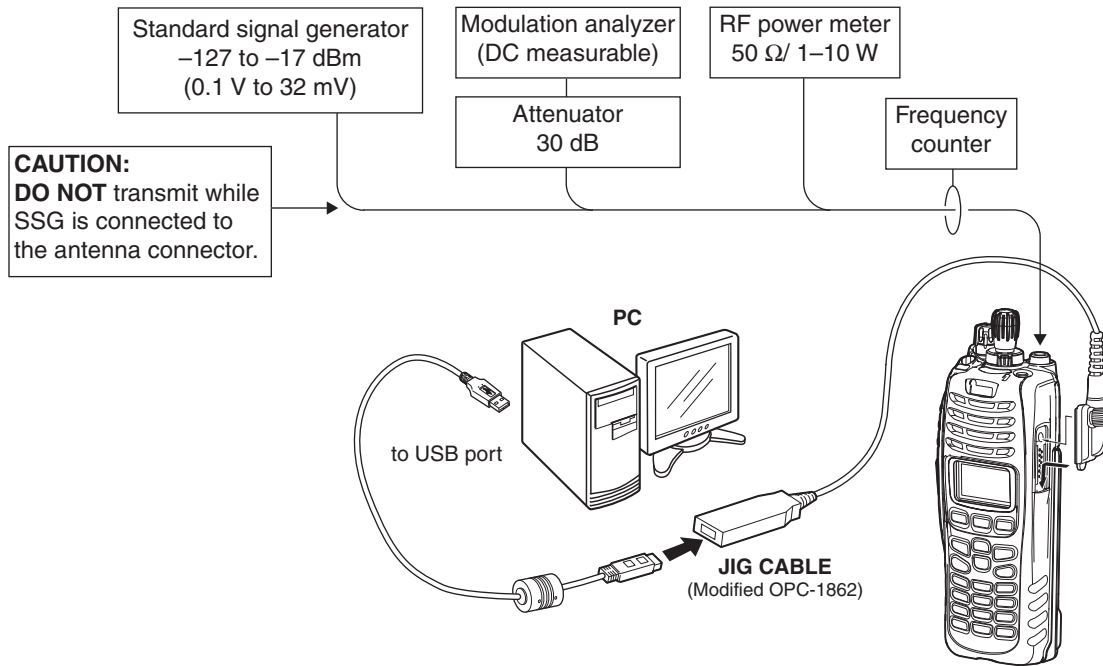
### REQUIRED EQUIPEMENTS

EQUIPMENT	GRADE AND RANGE	EQUIPMENT	GRADE AND RANGE
Cloning software	CS-F9010_F9510 CLONING SOFTWARE (Revision 1.0 or later)	Audio generator (AG)	Frequency range : 300–3000 Hz Output level : 1–500 mV
JIG cable	Modified OPC-1862 (See the illust below)	Oscilloscope	Frequency range : DC–20 MHz Measuring range : 0.01–20 V
RF power meter (50 Ω terminated)	Measuring range : 0.1–10 W Frequency range : 100–300 MHz SWR : Less than 1.2 : 1	Standard signal generator (SSG)	Frequency range : 0.1–300 MHz Output level : 0.1 mV to 32 mV (–127 to –17 dBm)
Frequency counter	Frequency range : 0.1–300 MHz Frequency accuracy : ±1 ppm or better Input level : Less than 1 mW	Modulation Analyzer	Frequency range : 30–300 MHz Measuring range : 0 to ±10 kHz
Attenuator	Power attenuation : 30 dB Capacity : More than 10 W	External speaker	Input impedance : 8 Ω Capacity : More than 2 W
AC millivoltmeter	Measuring range : 10 mV to 10 V		

### JIG CABLE



## CONNECTION



## ADJUSTMENT CHANNELS

Before strating adjustment, clone adjustment frequeneis and settings into the transceiver as below.

Zone 1: (Left CH - 485)														
CH	Atr	Inh	Frequency (MHz)				W/N	SQL Tight	C.Tone		Text	RF PWR	PW Sat	CH Type
			RX	TX	Tx Inh				RX	TX				
1- 1	AB		154.900000	<-	i	W				[RX LVA1]	L1		Analog	
1- 2			173.900000	<-	i	W				[RX LVA2]	L1		Analog	
1- 3			173.900000	<-		W				[TX LVA]	L1		Analog	
1- 4			136.100000	<-	i	W				LV (Verify)	L1		Analog	
1- 5			155.000000	<-	i	W				LV (Verify)	L1		Analog	
1- 6			136.100000	<-		W				LV (Verify)	L1		Analog	
1- 7			173.900000	<-		W				[REF]	L1		Analog	
1- 8			173.900000	<-		W				[Dig DA]	L1		Digital	
1- 9			155.000000	<-		W				[PWR Hi]	H		Analog	
1- 10			155.000000	<-		W				[PWR L2]	L2		Analog	
1- 11			155.000000	<-		W				[PWR L1]	L1		Analog	
1- 12			155.000000	<-		W				[BAL]	L1		Analog	
1- 13			155.000000	<-		N				[MOD N C]	L1		Analog	
1- 14			136.100000	<-		N				[MOD N L]	L1		Analog	
1- 15			173.900000	<-		N				[MOD N H]	L1		Analog	
1- 16			155.000000	<-		W				[MOD W C]	L1		Analog	
1- 17			136.100000	<-		W				[MOD W L]	L1		Analog	
1- 18			173.900000	<-		W				[MOD W H]	L1		Analog	
1- 19			155.000000	<-		W				[MOD D C]	L1		Digital	
1- 20			136.100000	<-		W				[MOD D L]	L1		Digital	
1- 21			173.900000	<-		W				[MOD D H]	L1		Digital	
1- 22			155.000000	<-		W				[CTCSS/DTCS]	L1		Analog	
1- 23			155.000000	<-		N				[S.TONE]	L1		Analog	
1- 24			136.100000	<-	i	W				[BPF C]	L1		Analog	
1- 25			173.900000	<-	i	W				[BPF H]	L1		Analog	
1- 26			155.000000	<-	i	W				[RSSI]	L1		Analog	
1- 27			155.000000	<-	i	W				[SQL]	L1		Analog	

# ADJUSTMENT UTILITY SCREEN

Untitled - CS-F9010/F9510  
File View COM Port Clone Adjust Help

LMR (P25 Trunking)  
 Memory CH  
 Digital  
 Trunking  
 DTMF  
 Continuous Tone  
 SCAN  
 Emergency  
 External I/O  
 Common  
 Adjust Utility  
 Adjust  
 Parameter

### Adjust Utility

---

**Setting**

CH No. 1 RX=165.25000, TX=165.25000  
 RF Power=Low1, Mode=Wide  
 CH Type=Digital

---

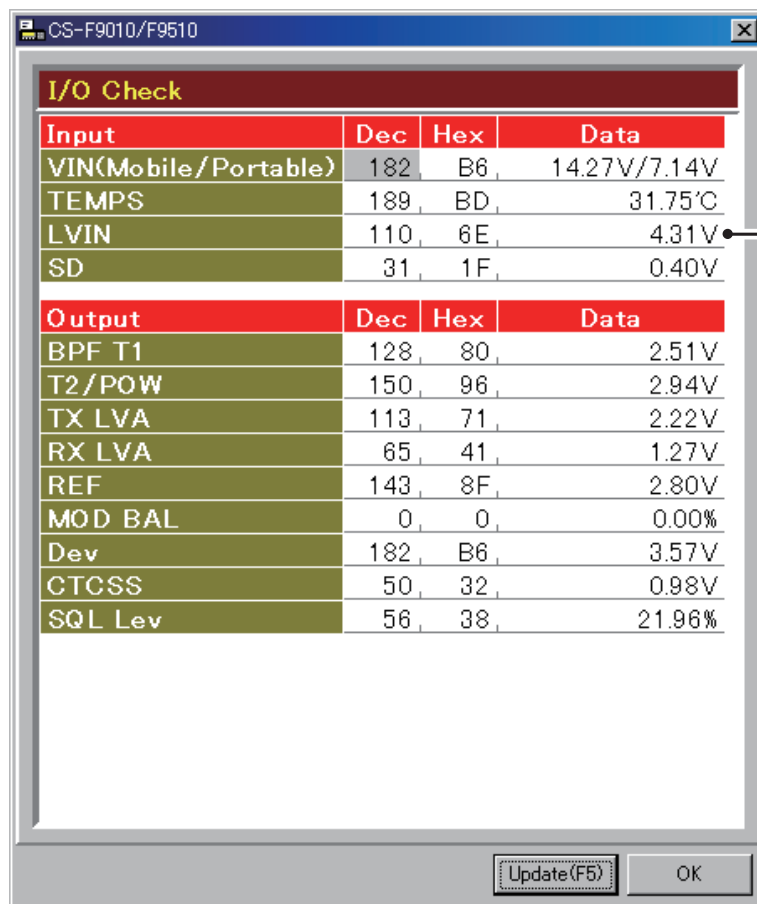
**Adjust**

Power (Hi)	150	[#####-----]
Power (L2)	70	[#####-----]
Power (L1)	40	[###-----]
BAL (Wide)	123	[#####-----]
BAL (Mid)	123	[#####-----]
BAL (Narrow)	123	[#####-----]
BAL (Digital)	123	[#####-----]
MOD (Wide)	177	[#####-----]
MOD (Mid)	0	[-----]
MOD (Narrow)	92	[#####-----]
MOD (Digital)	161	[#####-----]
CTCS/DTCS	50	[###-----]
SQL	56	[#####-----]
REF	112	[#####-----]
BPF C ALL		[Enter] to Sweep
BPF T1 C	50	[###-----] [Enter] to Sweep
BPF T2 C	66	[#####-----] [Enter] to Sweep
BPF L ALL		[Enter] to Sweep
BPF T1 L	64	[#####-----] [Enter] to Sweep
BPF T2 L	69	[#####-----] [Enter] to Sweep
BPF H ALL		[Enter] to Sweep
BPF T1 H	64	[#####-----] [Enter] to Sweep
BPF T2 H	69	[#####-----] [Enter] to Sweep
RX LVA1	81	[#####-----] [Enter] to Sweep
RX LVA2	65	[#####-----] [Enter] to Sweep
TX LVA	113	[#####-----] [Enter] to Sweep
LV(RX LVA1)	176	6.90V
LV(RX LVA2)	176	6.90V
LV(TX LVA)	176	6.90V
RSSI	113	[Enter] to Capture
MOD N C	0	[Enter] to Capture
MOD N L	0	[Enter] to Capture
MOD N H	0	[Enter] to Capture
MOD W C	0	[Enter] to Capture
MOD W L	0	[Enter] to Capture
MOD W H	0	[Enter] to Capture
MOD Dig C	0	[Enter] to Capture
MOD Dig L	0	[Enter] to Capture
MOD Dig H	0	[Enter] to Capture
Dig DA	132	[#####-----]
Dig Mode	1	
S.Tone	131	[#####-----]

## 6-2 FREQUENCY ADJUSTMENT

- 1) Select an adjustment item using cursor or [↑] / [↓] keys of the PC's keyboard.
- 2) Set or modify the adjustment value as specified using [←] / [→] keys of the PC's keyboard, then push the [ENTER] key.

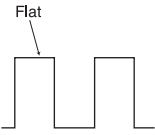
ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	VALUE	
PLL LOCK VOLTAGE -adjustment- [RX LVA1]	1	—	[LV (RXLVA1)] [LV (RXLVA2)] [LV (TXLVA1)] ="176 [6.90 V]"	
	2	• Channel : 1-1 • Receiving	(Automatic adjustment)	
	[RX LVA2]	3 • Channel : 1-2 • Receiving		
	[TX LVA]	4 • Channel : 1-3 • Transmitting		
<b>CONVENIENT:</b> The "PLL LOCK VOLTAGE" can be adjusted automatically. 1: Set each Lock voltage preset ([LV RX1], [LV RX2], [LV TX]). 2: Put the cursor on [RX LVA1], [RX LVA2] and [TX LVA], then push the [ENTER] key on the connected PC's keyboard.				
PLL LOCK VOLTAGE -verification-	1	• Channel : 1-4 • Receiving	Click [Reload (F5)] button, then check the "LVIN" item on the CS-F9511's screen.	2.2–3.2 V (Verify)
	2	• Channel : 1-5 • Receiving		2.2–3.2 V (Verify)
	3	• Channel : 1-6 • Transmitting		2.3–3.1 V (Verify)
REFERENCE FREQUENCY (Analog) [REF]	1	• Channel : 1-7 • Connect an RF power meter to the antenna connector. • Transmitting	Loosely couple a frequency counter to the antenna connector.	173.900000 MHz
(Digital) [Dig DA]	2	• Channel : 1-8 • [Dig Mode] : "13" • Transmitting		



(The values shown in the above screen are example only. Each transceiver has their own values.)

### 6-3 TRANSMIT ADJUSTMENT

- 1) Select an adjustment item using cursor or [↑] / [↓] keys of the PC's keyboard.
- 2) Set or modify the adjustment value as specified using [←] / [→] keys of the PC's keyboard, then push the [ENTER] key.

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	VALUE
<b>OUTPUT POWER [Power (Hi)]</b>	1 • Channel : 1-9 • Transmitting	Connect an RF power meter to the antenna connector.	6 W
<b>[Power (L2)]</b>	2 • Channel : 1-10 • Transmitting		2 W
<b>[Power (L1)]</b>	3 • Channel : 1-11 • Transmitting		1 W
<b>MODULATION BALANCE [BAL]</b>	1 • Channel : 1-12 • [MOD N] : "90" • No audio signals applied to the JIG cable. • Set a modulation analyzer as; HPF : OFF LPF : 20 kHz De-emphasis : OFF Detector : (P-P)/2 • Push [P0] key while transmitting.	Connect the Modulation Analyzer with an oscilloscope to the antenna connector through an attenuator.	Square wave form 
<b>FM DEVIATION -Preparation-</b>	1 • Connect an audio generator to the JIG cable and set as; Frequency : 1.0 kHz Level : 150 mV rms • Set the modulation analyzer to the same condition as "MODULATION BALANCE."	Connect a Modulation Analyzer with an oscilloscope to the antenna connector through an attenuator.	—
<b>(NARROW) [MOD N C]</b>	• Channel : 1-13 • Transmitting		±2.05 to ±2.15 kHz
<b>[MOD N L]</b>	2 • Channel : 1-14 • Transmitting		
<b>[MOD N H]</b>	3 • Channel : 1-15 • Transmitting		
<b>(WIDE) [MOD W C]</b>	4 • Channel : 1-16 • Transmitting		±4.05 to ±4.15 kHz
<b>[MOD W L]</b>	5 • Channel : 1-17 • Transmitting		
<b>[MOD W H]</b>	6 • Channel : 1-18 • Transmitting		
<b>DIGITAL DAVIATION</b>	1 • Connect an audio generator to the JIG cable and set as; Frequency : 1.0 kHz Level : 40 mV rms • Set the Modulation Analyzer as the same condition as "MODULATION BALANCE." • [Dig Mode] : "7"	—	—
<b>[MOD D C]</b>	2 • Channel : 1-19 • Transmitting	Connect a Modulation Analyzer with an oscilloscope to the antenna connector through an attenuator.	±2.83 to ±2.87 kHz
<b>[MOD D L]</b>	3 • Channel : 1-20 • Transmitting		
<b>[MOD D H]</b>	4 • Channel : 1-21 • Transmitting		
<b>CTCSS/DTCS DEVIATION [CTCSS/DTCS]</b>	1 • Channel : 1-22 • No audio signals applied to the JIG cable. • Set the Modulation Analyzer to the same condition as "MODULATION BALANCE." • Transmitting	Connect a Modulation Analyzer with an oscilloscope to the antenna connector through an attenuator.	±0.63 to ±0.67 kHz
<b>TONE [S.Tone]</b>	1 • Channel : 1-23 • Push [P3] key while transmitting.	Connect a Modulation Analyzer with an oscilloscope to the antenna connector through an attenuator.	±1.50 kHz

## 6-4 RECEIVE ADJUSTMENT

1) Select an adjustment item using cursor or [↑] / [↓] keys of the PC's keyboard.

2) Set or modify the adjustment value as specified using [←] / [→] keys of the PC's keyboard, then push the [ENTER] key.

ADJUSTMENT	TRANSCIVER'S CONDITION	OPERATION	VALUE
<b>RECEIVE SENSITIVITY</b> [BPF C (T1)] [BPF C (T2)]	<b>NOTE:</b> When "RECEIVE SENSITIVITY" is re-adjusted, "S-METER" must be re-adjusted too.		
	1 <ul style="list-style-type: none"> <li>Channel : 1-24</li> <li>Connect the SSG to the antenna connector and set as; <ul style="list-style-type: none"> <li>Frequency : 136.100 MHz</li> <li>Level : +20 dBμ† (-87 dBm)</li> <li>Modulation : 1 kHz</li> <li>Deviation : ±3.0 kHz</li> </ul> </li> <li>Receiving</li> </ul>	Connect a SINAD meter with an 8 Ω load to the SP line of the JIG cable.	Minimum distortion level
<b>CONVENIENT:</b> The "RECEIVE SENSITIVITY" can be adjusted automatically. 1: Put the cursor on "[BPF C ALL]" and push [ENTER] key. 2: The connected PC tunes BPF's to peak levels automatically.			
<b>S-METER [RSSI]</b> (S3 level)	<b>NOTE:</b> "RECEIVE SENSITIVITY" MUST be adjusted before "S-METER." When "RECEIVE SENSITIVITY" is re-adjusted, "S-METER" MUST be re-adjusted too.		
	1 <ul style="list-style-type: none"> <li>Channel : 1-26</li> <li>Connect the SSG to the antenna connector and set as; <ul style="list-style-type: none"> <li>Frequency : 155.000 MHz</li> <li>Level : +23 dBμ† (-84 dBm)</li> <li>Modulation : 1 kHz</li> <li>Deviation : ±3.0 kHz</li> </ul> </li> <li>Receiving</li> </ul>	Select the item [RSSI S3 Level], then push the [ENTER] key to store the adjust value.	(Automatic adjustment)
(S1 level)	2 <ul style="list-style-type: none"> <li>Set the SSG as; <ul style="list-style-type: none"> <li>Level : -7 dBμ† (-114 dBm)</li> </ul> </li> <li>Receiving</li> </ul>	Select the item [RSSI S1 Level], then push the [ENTER] key, to store the adjust value.	
<b>SQUELCH [SQL]</b>	1 <ul style="list-style-type: none"> <li>Channel : 1-27</li> <li>[SQL Level] : "2"</li> <li>Connect the SSG to the antenna connector and set as; <ul style="list-style-type: none"> <li>Frequency : 155.000 MHz</li> <li>Level : -14 dBμ† (-121 dBm)</li> <li>Modulation : 1 kHz</li> <li>Deviation : ±3.0 kHz</li> </ul> </li> <li>Receiving</li> </ul>	1) Once close the squelch by increasing [SQL] value, then decrease the value to open the squelch. 2) Push [ENTER] key to store the value.	(Automatic adjustment)

†: The output level of the standard signal generator (SSG) is indicated as the SSG's open circuit.

# SECTION 6

# PARTS LIST

### [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1110006490	S.IC LMV321IDCKR	B	65.4/19
IC2	1130010100	S.IC LMX2352TMX/NOPB	B	78.9/20.5
IC3	1130014000	S.IC ISL43110IHZ-T	B	102.6/15.7
IC4	1110003491	S.IC TA31136FNG(D,EL)	B	78.4/33
IC6	1180002271	S.REG TK11250CMCL-G	T	125.2/35.5
IC7	1180003060	S.REG TK11250CMCL-G	T	81.3/25.2
IC8	1110006490	S.IC LMV321IDCKR	B	122.6/26.8
IC401	1130014140	S.IC EN29LV320AT-70BIP	T	44.9/35.5
IC402	1130014310	S.IC CS16LV20493HIP55-REEL	T	40.5/26.7
IC403	1140014130	S.IC R5F61664N50FPV	B	40.4/31
IC404	1110006700	S.IC TB7100F (TE85L,F)	T	2.8/22.6
IC405	1140014160	S.IC 24LC1025T-I/SM	T	50.5/17.5
IC406	1130014200	S.IC TC7WPB307FK(TE85LF)	T	34.6/36.1
IC407	1130014200	S.IC TC7WPB307FK(TE85LF)	T	34.6/31.6
IC408	1190001860	S.IC EW-460-FT	B	41/16.5
IC409	1190002530	S.IC RX-8025NB	T	51.4/6.8
IC410	1110005731	S.IC S-80928CNMC-G8Y-G	T	32.3/21
IC411	1130013050	S.IC HD74LV2GT125AUSE-E	B	25.2/13.8
IC412	1190002570	S.IC DAC084S085C1MM	B	106.8/44.1
IC413	1130014040	S.IC MCP23S17T-E/ML	B	47.6/7.9
IC414	1130014040	S.IC MCP23S17T-E/ML	B	36.2/7.5
IC415	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	32.8/14.6
IC416	1130013050	S.IC HD74LV2GT125AUSE-E	B	36.5/14.6
IC417	1130013960	S.IC TC74LCX08FK(EL,K)	T	25.9/20.8
IC601	1130006891	S.IC TC7S04FU(TE85R,F)	T	9.2/32.2
IC602	1110006230	S.IC NJM2711F-TE1-#ZZZB	T	10.5/36.9
IC603	1130012910	S.IC AK4554VTP-E2/P	B	8.9/15.4
IC604	1140014120	S.IC TMS320VC5510AZGWA1	B	15.2/32.4
IC605	1190002080	S.IC AD743BARTZ-500RL7	B	20.6/22.7
IC606	1130014000	S.IC ISL43110IHZ-T	B	16.3/5.8
IC607	1110006230	S.IC NJM2711F-TE1-#ZZZB	B	20.6/17.3
IC608	1110005290	S.IC NJM2115V-TE1-#ZZZB	B	13.9/12
Q1	1560000541	S.FET 2SK880-Y(T5RICOM,F)	B	82.2/9.9
Q2	1590003240	S.TRA UNR9114J-(TX)	T	74.8/31.4
Q3	1530003990	S.TRA 2SC4738-BL(TE85L,F)	B	70.2/28.9
Q4	1590003450	S.TRA UNR9214J-(TX)	B	86.4/22.9
Q5	1530003990	S.TRA 2SC4738-BL(TE85L,F)	B	97.5/20.1
Q6	1530003990	S.TRA 2SC4738-BL(TE85L,F)	T	79.3/29.1
Q7	1530002601	S.TRA 2SC4215-O(TE85R,F)	B	85.6/30.9
Q8	1530002920	S.TRA 2SC4226-T1 R25	T	101.9/26
Q9	1530002920	S.TRA 2SC4226-T1 R25	T	97.2/22
Q10	1530002920	S.TRA 2SC4226-T1 R25	T	90.1/23.6
Q11	1510000920	S.TRA 2SA1577 T106 Q	T	97.5/40
Q12	1590003450	S.TRA UNR9214J-(TX)	T	98.4/42.3
Q13	1530003321	S.TRA 2SC5108-Y(TE85R,F)	T	95.4/25.9
Q14	1590001400	S.TRA XP1214(TX)	B	100/26.8
Q15	1540000710	S.TRA 2SD2655WM-TL-E	T	114.7/31.4
Q16	1590003450	S.TRA UNR9214J-(TX)	T	111.9/28.8
Q17	1590001400	S.TRA XP1214(TX)	T	88.7/31
Q18	1510000920	S.TRA 2SA1577 T106 Q	T	107.8/44.9
Q19	1590003290	S.TRA UNR9214J-(TX)	B	102.3/27.1
Q20	1590003450	S.TRA UNR9214J-(TX)	T	104.9/43
Q21	1530002920	S.TRA 2SC4226-T1 R25	B	94.9/26.5
Q22	1590001190	S.TRA XP6501-(TX).AB	T	126.6/38.8
Q24	1580000800	S.FET 3SK324UG-TL-E	B	95.6/37.1
Q25	1520000460	S.TRA 2SB1132 T100 R	T	126.2/42.6
Q26	1530002920	S.TRA 2SC4226-T1 R25	B	98.2/31.5
Q30	1530004050	S.TRA 2SC5111-O(TE85L,F)	B	104.3/35.7
Q32	1560001550	S.FET RD01MUS2-T113	B	112.6/34.6
Q33	1580000731	S.FET 3SK293(TE85L,F)	T	114.2/37.8
Q34	1560001560	S.FET RD12MVP1-T102	B	112.1/24.5
Q35	1590003321	S.FET TPC6103(TE85L,F)	B	127.7/37.4
Q36	1590003450	S.TRA UNR9214J-(TX)	B	129.8/41.1
Q37	1560001480	S.FET 2SK1830(TE85L,F)	B	115.4/39
Q38	1590003450	S.TRA UNR9214J-(TX)	B	123.2/23.3
Q39	1560001360	S.FET 2SK3019 TL	B	71.3/37.8
Q40	1590003450	S.TRA UNR9214J-(TX)	B	128.8/43.4
Q41	1530003990	S.TRA 2SC4738-BL(TE85L,F)	B	85.1/17.7
Q42	1530003990	S.TRA 2SC4738-BL(TE85L,F)	B	85.1/15.7
Q43	1520000460	S.TRA 2SB1132 T100 Q	T	76.4/22.7
Q44	1590001190	S.TRA XP6501-(TX).AB	T	71.9/21.4
Q45	1530003990	S.TRA 2SC4738-BL(TE85L,F)	T	73.8/26.7
Q46	1590003250	S.TRA UNR9115J-(TX)	B	104.5/32.8
Q47	1590003450	S.TRA UNR9214J-(TX)	B	119.4/31.8
Q402	1590001650	S.TRA XP4601(TX)	B	65.5/33.9
Q403	1590003450	S.TRA UNR9214J-(TX)	T	29.2/41.4
Q404	1590003450	S.TRA UNR9214J-(TX)	T	54.7/24.9
Q405	1590003450	S.TRA UNR9214J-(TX)	T	52.6/24.9
Q406	1590003450	S.TRA UNR9214J-(TX)	T	50.5/24.9
Q407	1590003450	S.TRA UNR9214J-(TX)	T	48.4/24.9
Q408	1590003450	S.TRA UNR9214J-(TX)	T	54.7/19.6
Q409	1590003450	S.TRA UNR9214J-(TX)	B	44.5/13.7
Q410	1590003230	S.TRA UNR9113J-(TX)	B	46.6/14.9
Q411	1590003450	S.TRA UNR9214J-(TX)	B	24.6/31.1
Q412	1590003450	S.TRA UNR9214J-(TX)	T	19.4/35
Q413	1590003450	S.TRA UNR9214J-(TX)	T	34.3/16.4
Q414	1590003230	S.TRA UNR9113J-(TX)	T	19.8/37.1
Q415	1590003230	S.TRA UNR9113J-(TX)	T	29/15.8
Q416	1590003230	S.TRA UNR9113J-(TX)	T	56.7/33.5
Q417	1590003450	S.TRA UNR9214J-(TX)	T	56.7/31.2
Q601	1530003190	S.TRA 2SC4617 TLQ	B	3.8/11.8
Q602	1590003550	S.TRA XP4313(TX)	B	20.6/8.7
Q603	1590003550	S.TRA XP4313(TX)	B	20.6/12.4
Q604	1590003230	S.TRA UNR9113J-(TX)		

### [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D1	1750001070	S.DIO DAN235ETL	T	70.6/34.5
D2	1790001250	S.DIO MA2S111-(TX)	B	95.8/20.2
D3	1750001070	S.DIO DAN235ETL	T	76.3/34.3
D4	1790001260	S.DIO MA2S077-(TX)	B	87.3/24.6
D5	1790001260	S.DIO MA2S077-(TX)	B	90.4/24.6
D6	1750001550	S.VAR HVD376BKRF-E	T	102.9/15.2
D7	1750001550	S.VAR HVD376BKRF-E	T	101/14.4
D8	1750001550	S.VAR HVD376BKRF-E	T	96.5/15.2
D9	1750001550	S.VAR HVD376BKRF-E	T	98.2/14.4
D10	1750001550	S.VAR HVD376BKRF-E	T	87.9/14.6
D11	1750001550	S.VAR HVD376BKRF-E	T	89.4/13.5
D12	1720000641	S.VAR 1SV284(TPH3,F)	T	101.2/15.5
D13	1720000641	S.VAR 1SV284(TPH3,F)	T	98.2/15.5
D16	1750001580	S.VAR HVL375CMKRF-E	T	92.4/19.8
D17	1750001570	S.VAR HVL355CMKRF-E	T	92.4/21.8
D18	1750001560	S.DIO JDP2S02AFS(TPL3)	B	101.2/32.8
D19	1750001560	S.DIO JDP2S02AFS(TPL3)	B	102.6/31
D20	1750000711	S.VAR HVC350BTRF-E	T	104.7/36.2
D21	1750000711	S.VAR HVC350BTRF-E	T	107.5/36.2
D22	1750000370	S.DIO DA221 TL	B	114.5/43.8
D23	1790001250	S.DIO MA2S111-(TX)	B	121.9/29.5
D24	1750000370	S.DIO DA221 TL	B	112.4/43.8
D25	1750000711	S.VAR HVC350BTRF-E	T	121.2/36.7
D26	1790001250	S.DIO MA2S111-(TX)	B	117.1/36.3
D27	1160000060	S.DIO DAN202U T106	B	127.3/40.8
D28	1790001670	S.DIO RB706F-40T106	T	117.1/14.7
D29	1750000711	S.VAR HVC350BTRF-E	T	121.9/33.3
D31	1750000581	S.DIO 1SV307(TPH3,F)	B	121.2/11.5
D32	1750000581	S.DIO 1SV307(TPH3,F)	B	123.3/18.2
D33	1790001260	S.DIO MA2S077-(TX)	T	122.6/23.6
D34	1790001240	S.DIO MA2S728-(TX)	T	123.1/22.4
D35	1790001670	S.DIO RB706F-40T106	T	124.7/15
D36	1790001250	S.DIO MA2S111-(TX)	T	72.1/25.2
D37	1750001560	S.DIO JDP2S02AFS(TPL3)	B	102.2/32.9
D38	1750000370	S.DIO DA221 TL	T	111.9/31.1
D401	1750001280	S.DIO CUS02(TE85L,Q)	T	5.9/25.9
D402	1790001240	S.DIO MA2S728-(TX)	T	55/10.4
D403	1790001260	S.DIO MA2S077-(TX)	T	18.3/39.6
D404	1160000140	S.DIO DAP222 TL	B	28.2/5.9
D405	1790001250	S.DIO MA2S111-(TX)	T	20.3/32.7
D601	1790001240	S.DIO MA2S728-(TX)	T	22.7/17.6
F11	2020002240	S.CER CFWKA450KGFA-R0	T	75.5/40.1
F12	2020002240	S.CER CFWKA450KGFA-R0	T	64.5/34
F13	2030000410	S.MON FL-380 MFT46.3P 46.350 MHz	T	91.4/35
F14	2020002320	S.CER CFWKA450KEFA	T	63.7/23.3
X1	6050012380	S.XTA CR-826 DSA535SD 15.3 MHz	B	68.3/15
X2	6070000300	S.DIS JTBM450CX24 <JJE>	B	76.2/40.7
X401	6050011700	S.XTA CR-760 DSX531S 9.8304 MHz	T	14.4/38.2
X601	6050012930	S.XTA CR-886 DSA321SCA 12.288 MHz	T	10.6/43.8
L1	6200004660	S.COI MLF1608A 1R8K-T	T	76/26
L2	6200003540	S.COI MLF1608D R22K-T	B	69.6/31.3
L3	6200007911	S.COI ELJRF 18NJFB	B	86.3/26
L4	6200004480	S.COI MLF1608D R82K-T	B	73.7/29.6
L5	6200007120	S.COI ELJND 1R0J	T	87.8/12
L6	6200007120	S.COI ELJND 1R0J	T	96.7/12.6
L7	6200007170	S.COI MLF1608A 3R3K-T	T	98.3/12.5
L8	6200007120	S.COI ELJND 1R0J	T	102.5/12.6
L9	6200007170	S.COI MLF1608A 3R3K-T	T	100.9/12.5
L10	6200010730	S.COI C2520C-68NG-A	T	92.5/12.6
L11	6200003640	S.COI MLF1608E 100K-T	T	104/14.9
L12	6200003640	S.COI MLF1608E 100K-T	T	95.4/15.2
L13	6200003640	S.COI MLF1608E 100K-T	T	87.6/16.9
L14	6200007170	S.COI MLF1608A 3R3K-T	T	92.1/17.9
L15	6200010730	S.COI C2520C-68NG-A	T	102.3/20.1
L16	6200011410	S.COI C2520C-82NG-A	T	96.5/19
L17	6200011410	S.COI C2520C-82NG-A	T	89.8/18.2
L18	6200011031	S.COI ELJRF R10JFB	T	94.9/27.4
L19	6200007911	S.COI ELJRF 18NJFB	B	92.3/26
L20	6200007850	S.COI ELJNC R82K-F	B	93/36.9
L21	6200009101	S.COI ELJRE R18GFA	B	98.4/29.6
L22	6200013370	S.COI C2012H-56NH	T	102.4/36.5
L23	6200011011	S.COI ELJRF 68NJFB	B	97.6/38.2
L24	6200007871	S.COI ELJRF 39NJFB	B	98.5/34.5
L25	6200009101	S.COI ELJRE R18GFA	B	106.3/36.9
L26	6200003590	S.COI EXCL325U1	T	116.7/24.5
L27	6200007871	S.COI ELJRF 39NJFB	B	115.9/32.5
L28	6200013370	S.COI C2012H-56NH	T	111.6/37.5
L29	6200012600	S.COI 0.45-1.4-3TL 8.1N <COMO>	B	115.1/19.2
L30	6200012600	S.COI 0.45-1.4-3TL 8.1N <COMO>	B	111.3/19.1
L31	6200013370	S.COI C2012H-56NH	T	119.4/37.4
L32	6200012600	S.COI 0.45-1.4-3TL 8.1N <COMO>	B	111.1/14.8
L33	6200012780	S.COI 0.30-1.4-6TL 27.2N <COMO>	B	115.4/11.5
L34	6200013370	S.COI C2012H-56NH	T	122.6/30.6
L35	6200002861	S.COI NLV25T-4R7J	B	119.1/13.7
L37	6200012470	S.COI 0.30-1.7-7TL 45.3N <COMO>	B	122.7/15.3
L39	6200012910	S.COI 0.35-1.6-8TL 45.5N <COMO>	B	126/11.8
L40	6200012760	S.COI 0.35-1.6-7TL 37.5N <COMO>	B	131.8/13.4
L41	6200010991	S.COI ELJRF 47NJFB	T	122.3/21.1
L45	6200007981	S.COI ELJRF 4N7DFB (4.7)	B	114.5/30.5
L47	6200007921	S.COI ELJRF 15NJFB	B	115.8/28.4
L401	6200007830	S.COI ELJFC 4R7K-F	T	3/30.3
L402	6200012090	S.COI CDRH2D18HP-150NC	T	3/27

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
L403	6200007830	S.COI ELJFC 4R7K-F	B	2.2/20.8
R1	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	64.7/21.2
R2	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	67.2/21.1
R3	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	71.2/18.3
R4	7030006610	S.RES ERJ2GEJ 394 X (390K)	B	68.2/21.1
R5	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	70.7/18.2
R6	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	67.2/19.4
R7	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	73.1/17.6
R8	7410001130	S.ARR EXB28V102JX	B	73.7/18
R11	7030005000	S.RES ERJ2GEJ 471 X (470)	B	80.5/10.9
R12	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	69.5/33.2
R13	7030006020	S.RES RR0510P-682-D (6.8K)	B	81.8/12.6
R14	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	70.8/36
R15	7030011000	S.RES RR0510P-392-D (3.9K)	B	83/12.1
R16	7030005000	S.RES ERJ2GEJ 471 X (470)	T	78.7/16.3
R17	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	84.5/21.1
R18	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	87.7/12.1
R19	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	B	69.6/32.4
R20	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	84.6/11.3
R21	7030010040	S.RES ERJ2GEJ-JPW	T	72.6/34
R22	7030004970	S.RES ERJ2GEJ 470 X (47)	T	82.2/34.5
R23	7030007060	S.RES ERJ2GEJ 684X (680K)	B	68.6/28.8
R24	7030008280	S.RES ERJ2GEJ 271 X (270)	B	85.6/11.3
R25	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	74.8/34.6
R26	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	103.1/13.4
R27	7030005580	S.RES ERJ2GEJ 560 X (56)	B	84.4/26
R28	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	88.6/22.1
R29	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	78.2/34.1
R30	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	76.8/31.7
R31	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	88.1/23.3
R32	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	94.7/20.2
R33	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	74/35
R35	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	73.7/31.3
R36	7030004980	S.RES ERJ2GEJ 101 X (100)	B	72.2/33.3
R37	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	71.1/36.3
R38	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	89.6/23.3
R39	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	71.1/35.1
R40	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	93.3/14.2
R41	7030005000	S.RES ERJ2GEJ 471 X (470)	B	81.1/36.3
R42	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	79.3/31.2
R43	7030011000	S.RES RR0510P-392-D (3.9K)	T	103.8/24
R44	7030011000	S.RES RR0510P-392-D (3.9K)	T	99.9/19.5
R45	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	92.3/20.8
R46	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	90.7/18.7
R47	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	78.4/36.3
R48	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	92.2/20.8
R49	7030008340	S.RES RR0510P-182-D (1.8K)	T	101.1/24
R50	7030010040	S.RES ERJ2GEJ-JPW	T	103.8/25.7
R51	7030008340	S.RES RR0510P-182-D (1.8K)	T	95.5/21.1
R52	7030010040	S.RES ERJ2GEJ-JPW	T	99/21.1
R53	7030011000	S.RES RR0510P-392-D (3.9K)	T	87.8/21.3
R55	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	90.6/20.8
R56	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	77.4/29.8
R57	7030008340	S.RES RR0510P-182-D (1.8K)	T	88.1/22.7
R58	7030005010	S.RES ERJ2GEJ 681 X (680)	B	84.7/32.9
R59	7030010040	S.RES ERJ2GEJ-JPW	T	88.1/23.6
R60	7030005000	S.RES ERJ2GEJ 471 X (470)	T	98.4/24
R61	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	85.6/32.9
R62	7030007280	S.RES ERJ2GEJ 331 X (330)	T	86.5/35
R63	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	96.5/42.1
R64	7030008370	S.RES ERJ2GEJ 561 X (560)	T	89.5/25.9
R65	7030005000	S.RES ERJ2GEJ 471 X (470)	T	100.1/26.2
R66	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	99.4/40
R67	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	92.9/26.2
R68	7030004980	S.RES ERJ2GEJ 101 X (100)	T	92.5/27.4
R69	7030004980	S.RES ERJ2GEJ 101 X (100)	B	83.8/34.5
R71	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	90.6/30.5
R72	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	113.7/33.4
R73	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	85.5/32.3
R74	7030010040	S.RES ERJ2GEJ-JPW	T	107.8/43.1
R75	7030005710	S.RES ERJ2GEJ 121 X (120)	B	96/34.7
R77	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	102.3/25.1
R78	7030004980	S.RES ERJ2GEJ 101 X (100)	B	91.4/27.6
R79	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	104.9/45
R80	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	105.8/45
R81	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	92.8/28.1
R82	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	90.3/36.3
R83	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	B	95.2/30.5
R84	7030004980	S.RES ERJ2GEJ 101 X (100)	B	93.8/39.4
R85	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	124.5/41.6
R86	7030004970	S.RES ERJ2GEJ 470 X (47)	B	96/40.7
R87	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	96.4/30
R89	7030004980	S.RES ERJ2GEJ 101 X (100)	B	97.8/27.3
R90	7030010040	S.RES ERJ2GEJ-JPW	B	96.4/32.6
R91	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	124.4/39
R92	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	98.5/37.2
R93	7030005070	S.RES ERJ2GEJ 683 X (68K)	T	98.5/35.6
R94	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	129.4/43.7
R95	7030005310	S.RES ERJ2GEJ 124 X (120K)	B	100/38.2
R96	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	99.7/34.2
R97	7030004980	S.RES ERJ2GEJ 101 X (100)	B	99.7/35.6
R98	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	98.8/38.7
R99	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	98.8/39.6
R100	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	101.7/31
R101	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	103.9/34.2
R102	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	105.6/40
R103	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	104.7/39.1
R105	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	106.1/37.9
R107	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	102.2/35.9
R108	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	104.9/37.2
R110	7030005530	S.RES ERJ2GEJ 100 X (10)	B	104.9/38.2
R111	7030003330	S.RES ERJ3GEYJ 121 V (120)	B	101.9/36.9

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REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R113	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	109.4/35.9
R115	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	111.4/38.3
R117	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	109.3/36.4
R118	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	110.5/38.3
R119	7030004970	S.RES ERJ2GEJ 470 X (47)	T	113.3/40
R120	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	117.4/27.8
R121	7030008280	S.RES ERJ2GEJ 271 X (270)	T	112.3/35.2
R123	7030005530	S.RES ERJ2GEJ 100 X (10)	T	116/38.9
R124	7030005720	S.RES ERJ2GEJ 563 X (56K)	T	116/36.1
R126	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	T	116.3/40.5
R127	7030005720	S.RES ERJ2GEJ 563 X (56K)	T	116.9/38.9
R128	7030005981	S.RES ERA3YED 333V (33K)	T	57.9/37.3
R129	7030005451	S.RES ERA3YED 153V (15K)	T	58.7/34.2
R130	7030004990	S.RES ERJ2GEJ 221 X (220)	B	120.4/30.3
R132	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	113.8/42.2
R133	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	119.6/28.2
R134	7030006610	S.RES ERJ2GEJ 394 X (390K)	B	112.2/41.3
R135	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	115.8/37.5
R136	7030005530	S.RES ERJ2GEJ 100 X (10)	B	123.3/29.1
R137	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	129.3/35.2
R138	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	129.9/38.3
R139	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	117.9/38.3
R140	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	117/38.3
R141	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	119.6/26.6
R142	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	122.5/37.9
R143	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	121.3/38.4
R144	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	124.3/26.3
R145	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	B	114.3/14.1
R146	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	119.8/24.7
R147	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	123.7/21.9
R148	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	122.5/35.2
R149	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	120.1/14.9
R150	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	121.1/24.3
R151	7030003370	S.RES ERJ3GEYJ 271 V (270)	T	117.6/18.6
R152	7030003370	S.RES ERJ3GEYJ 271 V (270)	T	119.1/18.6
R153	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	121.4/14.5
R154	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	B	128.2/15
R159	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	69.3/35.1
R160	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	85.4/20.2
R161	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	86.6/15.8
R162	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	69.3/27.9
R163	7030010040	S.RES ERJ2GEJ-JPW	T	83.5/32.1
R165	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	80.7/29.6
R166	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	82.3/29.6
R167	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	82.3/16
R168	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	80.9/15.5
R169	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	83.7/24.1
R170	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	75.8/25.1
R171	7030004980	S.RES ERJ2GEJ 101 X (100)	T	74.2/19.2
R172	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	70.9/23.5
R173	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	56.9/26.6
R174	7510001730	S.THE ERTJOEJ 473J	B	52.1/41.2
R175	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	74.2/20.1
R176	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	81.8/29.5
R177	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	72.3/27.3
R179	7030010040	S.RES ERJ2GEJ-JPW	B	114.5/28.9
R180	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	72.1/32.1
R181	7030005580	S.RES ERJ2GEJ 560 X (56)	B	115.8/29.3
R401	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	67.9/36.8
R402	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	63.7/32.8
R404	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	B	67.1/30.5
R405	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	67.7/32.4
R406	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	63.7/34.4

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REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R450	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	1.8/19.6
R451	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	43.7/43.8
R452	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	41.6/43.3
R453	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	42.8/40.5
R454	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	43.7/19.9
R455	7410001130	S.ARR EXB28V102JX	B	39.3/13.6
R457	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	36.4/17.3
R458	7030009280	S.RES ERJ2GEJ 391 X	B	35.7/44.4
R459	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	34.5/43.4
R460	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	32.8/43.8
R461	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	33.1/39.3
R462	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	49.2/22.8
R464	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	37.4/36
R465	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	37.3/32.8
R466	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	28/41
R467	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	39.2/36
R468	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	37.9/34.2
R469	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	33.8/38.1
R470	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	33.7/43.6
R471	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	50/12.3
R472	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	34.4/29.3
R473	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.7/30.8
R474	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	48.4/12.3
R475	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	32/33.6
R476	7030005530	S.RES ERJ2GEJ 100 X (10)	T	18.8/40.7
R477	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	50/16.5
R478	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.2/39.1
R479	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.3/35.9
R480	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	48.4/11.4
R481	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	25.9/40.2
R482	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	18.5/38.3
R483	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.2/37.6
R484	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.7/32.6
R485	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.1/28.3
R486	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.7/33.5
R487	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.7/29.2
R488	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	27.2/25.8
R489	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	16.7/39.2
R490	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	17.1/40.7
R491	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	29.8/22.2
R492	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	26.8/34.7
R493	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	30.1/19.5
R494	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	25.6/34.4
R495	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	54.3/11.9
R496	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	56.8/35
R497	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	25.2/33.2
R498	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	53.1/8.6
R499	7030004980	S.RES ERJ2GEJ 101 X (100)	T	32.2/39.7
R500	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	30.1/33
R501	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	30.5/31.8
R502	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	29.6/31.8
R503	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	30.5/15.9
R504	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	27.4/16.3
R505	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	31.2/8.4
R507	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	56.7/35.1
R508	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	54.4/64.4
R510	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	31.2/28.6
R512	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	30.3/28.6
R513	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	43.5/8.4
R514	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	102.3/44
R515	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	29.4/28.6
R516	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	102.3/45
R517	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	31.2/26.9
R518	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	30.3/26.9
R519	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	29.4/26.9
R521	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	38.3/38.1
R522	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	35.4/38.2
R523	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	30.9/36.7
R524	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	45.3/16.9
R525	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	24.1/16.2
R526	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	53.7/24.4
R527	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	26.3/42.1
R528	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	28.6/9.1
R529	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	23.6/10.3
R531	7030005300	S.RES ERJ2GEJ 150 X (15)	B	2.2/18.2
R532	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	106.4/41.6
R533	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	23.1/13.1
R602	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	15.5/29.2
R603	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	13.7/29.2
R604	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	14.6/29.2
R605	7030004970	S.RES ERJ2GEJ 470 X (47)	T	7.5/39.7
R606	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	12.8/29.2
R607	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	9.9/39.2
R609	7030004980	S.RES ERJ2GEJ 101 X (100)	T	11.1/39.7
R610	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	8.7/40.5
R611	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	9.9/41
R612	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	21.2/27.3
R613	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	19.7/27.3
R614	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.4/28.5
R615	7030004970	S.RES ERJ2GEJ 470 X (47)	T	13.5/43.5
R616	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	12.4/22.7
R618	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	22.8/41.6
R621	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	17/29.5
R622	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	19.5/42.1
R623	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.7/23.2
R624	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	6.8/34
R626	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	11.6/40.6
R627	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	18.3/40.6
R628	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	22.9/40.7
R629	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	20.1/29.5
R630	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.5/25.1
R631	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.4/32.4
R632	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	5.5/15
R633	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	24.3/33.5

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REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R634	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.4/34.2
R635	7030004980	S.RES ERJ2GEJ 101 X (100)	B	6.6/9.9
R636	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.4/36.4
R637	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	5.4/11.8
R638	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	2.2/11.8
R639	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	23.4/26.9
R640	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	3.8/13.3
R641	7030010040	S.RES ERJ2GEJ-JPW	B	24.4/20.4
R642	7030010040	S.RES ERJ2GEJ-JPW	T	18.6/29.7
R643	7030004980	S.RES ERJ2GEJ 101 X (100)	B	13.3/7.8
R644	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	11.3/20.4
R646	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	22.4/10.1
R647	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	12.2/20.1
R648	7030004980	S.RES ERJ2GEJ 101 X (100)	B	10.6/9
R649	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	12.2/16.9
R650	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	13.6/17.3
R651	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	16.4/14.9
R652	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	21.2/19.8
R654	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	20.3/19.8
R655	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	19.1/20.5
R656	7030004980	S.RES ERJ2GEJ 101 X (100)	B	13.6/18.3
R657	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	13.6/16.4
R658	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	16.8/13.7
R659	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	16.8/12.8
R660	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	B	23.7/21.6
R661	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	B	22.8/21.6
R662	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	16.4/11.6
R663	7030004980	S.RES ERJ2GEJ 101 X (100)	B	9/8.1
R664	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	16.4/6.1
R665	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	16.4/5.2
R667	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	16.4/4.3
R668	7030004970	S.RES ERJ2GEJ 470 X (47)	B	22.5/19.4
R669	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	8/4.9
R670	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	24.8/16.5
R671	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	20.5/14.6
R672	7030004980	S.RES ERJ2GEJ 101 X (100)	B	14/5.4
R673	7030004980	S.RES ERJ2GEJ 101 X (100)	B	17.9/17.4
R674	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	23.2/16.8
R675	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	B	22.6/14.6
R676	7030004980	S.RES ERJ2GEJ 101 X (100)	B	21.4/14.6
R677	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.9/21.9
R678	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.2/21
R679	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	15.9/8
R680	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	17.6/23.2
R681	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	18.6/28.8
R683	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	18.6/31.5
R684	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	14.5/31.2
C1	4030017420	S.CER ECJ0EC1H470J	B	70.7/20
C2	4030017420	S.CER ECJ0EC1H470J	B	72.3/19.3
C3	4030017420	S.CER ECJ0EC1H470J	B	68.2/17.8
C4	4030016790	S.CER ECJ0EB1C103K	B	74.4/23.9
C5	4030016930	S.CER ECJ0EB1A104K	T	74/17.6
C6	4030017710	S.CER ECJ0EC1H181J	B	68.2/19.4
C7	4550006250	S.TAN TEESVA 1A 106M8R	B	71.2/22.2
C9	4030017460	S.CER ECJ0EB1E102K	B	64.2/17.1
C10	4030017460	S.CER ECJ0EB1E102K	B	74.4/22.2
C11	4030016930	S.CER ECJ0EB1A104K	B	64.2/16.1
C12	4030017460	S.CER ECJ0EB1E102K	B	80.7/39.2
C13	4030017620	S.CER ECJ0EC1H100C	B	72/14.2
C14	4030017460	S.CER ECJ0EB1E102K	B	81.8/14.8
C15	4030016930	S.CER ECJ0EB1A104K	B	63.5/14.6
C17	4030016790	S.CER ECJ0EB1C103K	T	76.8/27.5
C18	4030016790	S.CER ECJ0EB1C103K	B	83.3/19.9
C19	4030017460	S.CER ECJ0EB1E102K	B	80.5/9.3
C20	4030017440	S.CER ECJ0EC1H221J	B	83.7/22.8
C21	4030016930	S.CER ECJ0EB1A104K	T	69.1/34.8
C22	4030017430	S.CER ECJ0EC1H101J	T	80.6/17.1
C23	4030017620	S.CER ECJ0EC1H100C	T	80/19.8
C24	4030016930	S.CER ECJ0EB1A104K	T	72.6/35
C27	4030017460	S.CER ECJ0EB1E102K	B	103.1/17.9
C28	4030016790	S.CER ECJ0EB1C103K	B	86.5/11.3
C29	4030016930	S.CER ECJ0EB1A104K	T	78.2/35
C30	4030016930	S.CER ECJ0EB1A104K	T	73.3/31.6
C31	4030017460	S.CER ECJ0EB1E102K	B	84.4/27.7
C32	4030016790	S.CER ECJ0EB1C103K	B	95.8/18.2
C33	4030016930	S.CER ECJ0EB1A104K	T	73.9/29.6
C34	4550003250	S.TAN TEESVA 1V 474M8R	B	86.7/8.9
C35	4030017380	S.CER ECJ0EC1H050B	B	85.3/26
C36	4030017500	S.CER ECJ0EC1H560J	B	71.8/30
C37	4030016930	S.CER ECJ0EB1A104K	B	69.1/30.3
C38	403001			

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REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C63	4030017460	S.CER ECJ0EB1E102K	B	70.2/35.1
C64	4550006250	S.TAN TEESVA 1A 106M8R	B	100.1/22.3
C65	4030017460	S.CER ECJ0EB1E102K	B	99/20.3
C66	4030017460	S.CER ECJ0EB1E102K	B	81.1/37.2
C67	4030017390	S.CER ECJ0EC1H180J	T	102.9/17
C68	4030017640	S.CER ECJ0EC1H150J	T	96.4/16.9
C69	4030017510	S.CER ECJ0EC1H680J	T	103.8/17
C70	4030017510	S.CER ECJ0EC1H680J	T	94.8/16.9
C71	4030017700	S.CER ECJ0EC1H151J	T	89.8/15.3
C72	4030017460	S.CER ECJ0EB1E102K	B	73.7/32.2
C73	4030016930	S.CER ECJ0EB1A104K	B	92.4/13.3
C74	4030017460	S.CER ECJ0EB1E102K	B	72.9/15.9
C75	4550006250	S.TAN TEESVA 1A 106M8R	B	71.9/41.4
C76	4030017460	S.CER ECJ0EB1E102K	B	83.3/32
C77	4030017570	S.CER ECJ0EC1H040B	T	101.6/22.6
C78	4030017380	S.CER ECJ0EC1H050B	T	99.4/18.1
C79	4030017660	S.CER ECJ0EC1H330J	T	90.7/20.9
C80	4030017420	S.CER ECJ0EC1H470J	T	80.7/31.7
C81	4030017660	S.CER ECJ0EC1H330J	T	103.2/22.6
C82	4030017660	S.CER ECJ0EC1H330J	T	99/19.5
C83	4030016970	S.CER ECJ0EB1C223K	B	92/19.6
C84	4030017680	S.CER ECJ0EC1H820J	B	82.9/34.5
C85	4030017460	S.CER ECJ0EB1E102K	T	82.2/31.7
C86	4030017340	S.CER ECJ0EC1H010B	T	90.7/21.8
C87	4030017650	S.CER ECJ0EC1H270J	T	102.9/24
C88	4030017660	S.CER ECJ0EC1H330J	T	102/24
C89	4030017650	S.CER ECJ0EC1H270J	T	99.9/21.1
C90	4030017660	S.CER ECJ0EC1H330J	T	99.5/22.6
C91	4030017350	S.CER ECJ0EC1H020B	T	89.1/20.9
C92	4030017510	S.CER ECJ0EC1H680J	T	89.1/21.8
C93	4030016790	S.CER ECJ0EB1C103K	B	83.3/30.7
C94	4030016930	S.CER ECJ0EB1A104K	T	70.9/27.9
C95	4030016930	S.CER ECJ0EB1A104K	T	80.8/29.5
C96	4030017390	S.CER ECJ0EC1H180J	T	88.1/24.5
C97	4030017660	S.CER ECJ0EC1H330J	T	88.1/25.4
C98	4030016790	S.CER ECJ0EB1C103K	T	99.3/24
C99	4030016790	S.CER ECJ0EB1C103K	T	95.5/22.9
C100	4030017460	S.CER ECJ0EB1E102K	T	100.2/24
C101	4030017460	S.CER ECJ0EB1E102K	T	94.9/22
C102	4030017540	S.CER ECJ0EC1HR75B	T	97.5/24
C103	4030016790	S.CER ECJ0EB1C103K	T	92.3/22.8
C104	4030016790	S.CER ECJ0EB1C103K	B	86.5/32.9
C105	4030017460	S.CER ECJ0EB1E102K	T	95.6/39.8
C106	4030017460	S.CER ECJ0EB1E102K	T	92.3/23.7
C107	4030017540	S.CER ECJ0EC1HR75B	T	98.9/25.9
C108	4030017460	S.CER ECJ0EB1E102K	B	85.6/34.5
C109	4030017530	S.CER ECJ0EC1HOR5B	T	92.5/24.9
C110	4030016790	S.CER ECJ0EB1C103K	T	95.6/42.1
C112	4030017460	S.CER ECJ0EB1E102K	T	101.2/40.6
C113	4030017390	S.CER ECJ0EC1H180J	T	92.2/39
C114	4030017460	S.CER ECJ0EB1E102K	T	116.6/29.4
C115	4030016790	S.CER ECJ0EB1C103K	B	84.7/34.5
C116	4030017350	S.CER ECJ0EC1H020B	T	90.6/39
C117	4030017730	S.CER ECJ0EB1E471K	T	92/26.2
C118	4030017460	S.CER ECJ0EB1E102K	T	93.8/26.2
C120	4030017420	S.CER ECJ0EC1H470J	T	86.8/31.3
C121	4030016790	S.CER ECJ0EB1C103K	B	84.7/35.8
C123	4030017460	S.CER ECJ0EB1E102K	T	111.9/32.7
C124	4030017620	S.CER ECJ0EC1H100C	B	95.2/28.5
C125	4030017460	S.CER ECJ0EB1E102K	B	91.4/29.2
C126	4030017460	S.CER ECJ0EB1E102K	T	110.1/45
C127	4030017460	S.CER ECJ0EB1E102K	B	92.8/27.2
C128	4030017460	S.CER ECJ0EB1E102K	B	91.2/37.9
C129	4030017340	S.CER ECJ0EC1H010B	B	96.9/26.5
C130	4030016790	S.CER ECJ0EB1C103K	B	90.3/37.9
C131	4030016790	S.CER ECJ0EB1C103K	T	104/45
C132	4030017380	S.CER ECJ0EC1H050B	B	95.2/29.4
C133	4030017460	S.CER ECJ0EB1E102K	B	101.4/28.6
C134	4030016790	S.CER ECJ0EB1C103K	B	94.8/35.1
C135	4030017460	S.CER ECJ0EB1E102K	T	110.1/44.1
C136	4030017460	S.CER ECJ0EB1E102K	B	96/39.8
C137	4030017640	S.CER ECJ0EC1H150J	B	91.2/36.3
C138	4030016790	S.CER ECJ0EB1C103K	B	96/38.9
C139	4550005980	S.TAN TEESVA 1A 475M8R	B	125.1/43.1
C140	4030017560	S.CER ECJ0EC1H2R5B	B	93.2/26
C141	4030017460	S.CER ECJ0EB1E102K	B	91.4/26
C142	4030017460	S.CER ECJ0EB1E102K	B	94.7/40.3
C143	4030018860	S.CER ECJ0EB0J105K	T	123.9/39.9
C145	4030017730	S.CER ECJ0EB1E471K	B	96.9/24.8
C146	4030017460	S.CER ECJ0EB1E102K	B	97.8/25.3
C147	4030017460	S.CER ECJ0EB1E102K	B	98.1/28.5
C148	4550005980	S.TAN TEESVA 1A 475M8R	B	123.6/39.3
C149	4030017620	S.CER ECJ0EC1H100C	B	100.5/31.5
C150	4030017380	S.CER ECJ0EC1H050B	T	100.3/36.7
C151	4030016930	S.CER ECJ0EB1A104K	B	126/35.2
C152	4030016790	S.CER ECJ0EB1C103K	B	122.8/37.8
C154	4030017570	S.CER ECJ0EC1H040B	T	100.8/37.9
C155	4030017460	S.CER ECJ0EB1E102K	B	105.5/34.2
C156	4030017460	S.CER ECJ0EB1E102K	B	99.7/36.5
C157	4030017460	S.CER ECJ0EB1E102K	B	98.8/41.4
C158	4030017620	S.CER ECJ0EC1H100C	B	101.8/34.7
C159	4030017460	S.CER ECJ0EB1E102K	T	106.8/40.3
C160	4030017420	S.CER ECJ0EC1H470J	B	98.8/40.5
C161	4030017460	S.CER ECJ0EB1E102K	T	104.3/37.9
C162	4030017620	S.CER ECJ0EC1H100C	B	98.5/36.9
C164	4030017400	S.CER ECJ0EC1H220J	B	98/35.7
C165	4030017550	S.CER ECJ0EC1H1R5B	T	106.1/35.4
C166	4030017460	S.CER ECJ0EB1E102K	T	106.1/38.8
C168	4030017650	S.CER ECJ0EC1H270J	B	102.7/34.7
C169	4030017400	S.CER ECJ0EC1H220J	B	98.1/33.3
C170	4030017620	S.CER ECJ0EC1H100C	B	99.7/33.3
C172	4030017460	S.CER ECJ0EB1E102K	T	107.5/38.4
C174	4030017570	S.CER ECJ0EC1H040B	T	108.5/35.9
C175	4030017460	S.CER ECJ0EB1E102K	B	103.7/38.5

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C176	4030017460	S.CER ECJ0EB1E102K	B	105.5/39.4
C177	4030017460	S.CER ECJ0EB1E102K	B	102.5/38
C179	4030017420	S.CER ECJ0EC1H470J	B	104.6/39.4
C180	4030017460	S.CER ECJ0EB1E102K	B	109.3/35.2
C181	4030017460	S.CER ECJ0EB1E102K	T	109.3/39
C182	4030017440	S.CER ECJ0EC1H221J	B	108.1/36
C183	4030017460	S.CER ECJ0EB1E102K	T	110.7/35.5
C184	4030017420	S.CER ECJ0EC1H470J	B	112.6/39.3
C185	4030017460	S.CER ECJ0EB1E102K	T	111.7/39.7
C186	4030017460	S.CER ECJ0EB1E102K	B	117.3/33.6
C188	4030017460	S.CER ECJ0EB1E102K	T	114.2/40.9
C189	4030017490	S.CER C1608 JB 1A 105K-T	T	109.2/37.9
C190	4030016930	S.CER ECJ0EB1A104K	T	81.8/22.4
C191	4030017460	S.CER ECJ0EB1E102K	B	109.6/38.3
C192	4030017460	S.CER ECJ0EB1E102K	B	112.6/40.2
C193	4030017420	S.CER ECJ0EC1H470J	T	113.9/36.1
C195	4030016790	S.CER ECJ0EB1C103K	B	108.7/38.3
C196	4550005980	S.TAN TEESVA 1A 475M8R	T	84.4/25.1
C197	4030017460	S.CER ECJ0EB1E102K	T	117.9/22.3
C198	4030017490	S.CER C1608 JB 1A 105K-T	T	114.1/26.7
C199	4030017430	S.CER ECJ0EC1H101J	B	114.5/32.1
C201	4030017460	S.CER ECJ0EB1E102K	T	113.9/35.2
C203	4030017360	S.CER ECJ0EC1H030B	T	116.9/36.1
C204	4030017460	S.CER ECJ0EB1E102K	T	114.7/27.4
C205	4030016930	S.CER ECJ0EB1A104K	T	78.9/22.3
C206	4030017730	S.CER ECJ0EB1E471K	T	115.1/40.9
C207	4030017460	S.CER ECJ0EB1E102K	T	114.7/21.4
C208	4030017730	S.CER ECJ0EB1E471K	B	117.4/29.7
C209	4030017460	S.CER ECJ0EB1E102K	B	117.4/28.8
C210	4030017460	S.CER ECJ0EB1E102K	B	118.7/26.6
C212	4030016930	S.CER ECJ0EB1A104K	B	116/43.1
C213	4030016930	S.CER ECJ0EB1A104K	B	113.9/39.3
C214	4030017620	S.CER ECJ0EC1H100C	T	116.5/37.4
C215	4510008540	S.ELE EEE1CA100SR	B	122.9/34.4
C216	4030007040	S.CER C1608 CH 1H 180J-T	B	108.4/20.6
C217	4030016930	S.CER ECJ0EB1A104K	B	127.6/35.2
C218	4030017460	S.CER ECJ0EB1E102K	B	121.2/22.8
C219	4030016930	S.CER ECJ0EB1A104K	B	113.8/41.3
C220	4030017460	S.CER ECJ0EB1E102K	B	112.2/42.2
C221	4030017460	S.CER ECJ0EB1E102K	B	125.4/37
C222	4030017550	S.CER ECJ0EC1H1R5B	T	117.8/37.7
C223	4030017460	S.CER ECJ0EB1E102K	B	129.9/39.5
C224	4030007110	S.CER C1608 CH 1H 680J-T	B	108.4/16.9
C225	4030017460	S.CER ECJ0EB1E102K	B	123.7/30.3
C226	4030017460	S.CER ECJ0EB1E102K	B	130.2/36.1
C228	4030007030	S.CER C1608 CH 1H 150J-T	B	108.2/14.8
C229	4030016930	S.CER ECJ0EB1A104K	B	124.3/28.1
C230	4030017460	S.CER ECJ0EB1E102K	T	120.7/39.6
C231	4030017460	S.CER ECJ0EB1E102K	T	122.5/40
C232	4030007000	S.CER C1608 CH 1H 090D-T	B	111.4/11.9
C233	4030011810	S.CER C1608 JB 1A 224K-T	B	120.7/26.8
C234	4030017460	S.CER ECJ0EB1E102K	B	118.5/37.1
C236	4030017460	S.CER ECJ0EB1E102K	B	112.7/12.8
C237	4030017550	S.CER ECJ0EC1H1R5B	T	121.1/34.7
C238	4030017460	S.CER ECJ0EB1E102K	T	121.6/39.6
C239	4030017530	S.CER ECJ0EC1HOR5B	B	115.5/14.7
C240	4030017460	S.CER ECJ0EB1E102K	T	119.1/14.9
C241	4030016950	S.CER ECJ0EB1A473K	B	123.4/24.8
C242	4030007040	S.CER C1608 CH 1H 180J-T	B	113.4/11.1
C244	4030017460	S.CER ECJ0EB1E102K	T	123.6/32.4
C246	4030007030	S.CER C1608 CH 1H 150J-T	B	117.6/9.7
C248	4030017460	S.CER ECJ0EB1E102K	B	118.3/11.5
C249	4030017460	S.CER ECJ0EB1E102K	T	121/16.5
C250	4030017340	S.CER ECJ0EC1H010B	T	121.5/32.2
C251	4030007030	S.CER C1608 CH 1H 150J-T	B	124.9/14.9
C252	4030017650	S.CER ECJ0EC1H270J	T	122.7/19.8
C253	4030017380	S.CER ECJ0EC1H050B	T	121.8/28.7
C254	4030017460	S.CER ECJ0EB1E102K	B	118.5/15.5
C256	4030017460	S.CER ECJ0EB1E102K	T	119.6/20.4
C257	4030017460	S.CER ECJ0EB1E102K	B	122.9/12.8
C260	4030018080	S.CER ECJ0EB1H182K	B	72.7/36.3
C261	4030007030	S.CER C1608 CH 1H 150J-T	B	124.1/8.8
C262	4030017460	S.CER ECJ0EB1E102K	T	121.8/26
C265	4030017530	S.CER ECJ0EC1HOR5B	B	127.3/15.9
C266	4030017460	S.CER ECJ0EB1E102K	T	122.6/14.9
C267	4030017630	S.CER ECJ0EC1H120J	T	122.3/24.7
C268	4030007060	S.CER C1608 CH 1H 270J-T	B	129.2/12.8
C269	4030006990	S.CER C1608 CH 1H 080D-T	B	134.3/13.9
C272	4550005980	S.TAN TEESVA 1A 475M8R	B	88.2/17.4
C273	4030016790	S.CER ECJ0EB1C103K	B	85.4/19.2
C274	4550003250	S.TAN TEESVA 1V 474M8R	B	86.5/13.6
C277	4030016930	S.CER ECJ0EB1A104K	B	56.9/25.6
C278	4030016930	S.CER ECJ0EB1A104K	T	71.9/19.6
C279	4030018860	S.CER ECJ0EB0J105K	T	83.5/29.3
C280</				

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REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C403	4030017790	S.CER ECJ0EB1E682K	B	66.4/36.3
C404	4030016930	S.CER ECJ0EB1A104K	T	46.3/23.2
C405	4030016930	S.CER ECJ0EB1A104K	B	64.5/36.3
C406	4030016940	S.CER ECJ0EB1A393K	B	66/39.5
C407	4030016930	S.CER ECJ0EB1A104K	T	31.1/18.4
C408	4030016790	S.CER ECJ0EB1C103K	B	6.8/28.4
C409	4030017420	S.CER ECJ0EC1H470J	T	39.3/43.7
C410	4550006970	S.TAN TEESVA0G476M8R	T	4.1/33.9
C411	4030016930	S.CER ECJ0EB1A104K	B	53/28.2
C412	4030016930	S.CER ECJ0EB1A104K	T	5.7/28.1
C413	4550006970	S.TAN TEESVA0G476M8R	T	1.8/33.9
C414	4030018860	S.CER ECJ0EB0J105K	T	30.5/35.1
C415	4030017770	S.CER ECJ0EB1E332K	T	2.3/18.4
C416	4550007030	S.TAN TEESVP 0J 106M8R	B	2.2/25.1
C417	4030016930	S.CER ECJ0EB1A104K	B	2.6/23
C418	4030016930	S.CER ECJ0EB1A104K	T	32/18.4
C419	4030016930	S.CER ECJ0EB1A104K	T	36.1/33.3
C420	4030016930	S.CER ECJ0EB1A104K	T	37.9/30.8
C421	4030016930	S.CER ECJ0EB1A104K	B	50.3/42.8
C422	4030016930	S.CER ECJ0EB1A104K	T	51.9/11.3
C423	4030016930	S.CER ECJ0EB1A104K	T	33.7/34.3
C424	4030016930	S.CER ECJ0EB1A104K	T	35.3/29.3
C425	4030016930	S.CER ECJ0EB1A104K	B	27.7/31.7
C426	4030016930	S.CER ECJ0EB1A104K	B	27.9/22.1
C427	4030017630	S.CER ECJ0EC1H120J	T	14.2/41.7
C428	4030017350	S.CER ECJ0EC1H020B	T	16.7/37.6
C429	4030016930	S.CER ECJ0EB1A104K	T	52.1/10.4
C430	4030017700	S.CER ECJ0EC1H151J	T	17.6/38.3
C431	4030017030	S.CER ECJ0EB1A273K	T	32.1/23.3
C432	4030017460	S.CER ECJ0EB1E102K	B	46.2/16.9
C433	4030018860	S.CER ECJ0EB0J105K	T	20.4/40.7
C434	4030017400	S.CER ECJ0EC1H220J	T	16.5/41.9
C435	4030016930	S.CER ECJ0EB1A104K	B	29.6/20.6
C436	4030017460	S.CER ECJ0EB1E102K	B	27.7/34.7
C440	4030017460	S.CER ECJ0EB1E102K	B	88.7/40.4
C441	4550006780	S.TAN TEESVB2 0J 476M8R	T	2.7/12.6
C442	4030016930	S.CER ECJ0EB1A104K	B	110.9/45
C443	4030016930	S.CER ECJ0EB1A104K	B	43.4/10
C444	4030016930	S.CER ECJ0EB1A104K	B	32.1/9.2
C445	4030017460	S.CER ECJ0EB1E102K	T	20.1/38.5
C446	4030016930	S.CER ECJ0EB1A104K	T	26.5/16.3
C447	4030016930	S.CER ECJ0EB1A104K	B	34.6/15.3
C448	4030016930	S.CER ECJ0EB1A104K	T	36.8/17.2
C449	4030016930	S.CER ECJ0EB1A104K	T	37.4/38.1
C450	4030016930	S.CER ECJ0EB1A104K	T	35.3/39.8
C451	4030016930	S.CER ECJ0EB1A104K	B	36.8/44.3
C452	4030016930	S.CER ECJ0EB1A104K	B	37.7/44.3
C453	4030016930	S.CER ECJ0EB1A104K	B	38.8/44.3
C454	4030018860	S.CER ECJ0EB0J105K	T	42.1/22.7
C455	4550006780	S.TAN TEESVB2 0J 476M8R	T	45.9/18.4
C456	4030017460	S.CER ECJ0EB1E102K	T	71.7/5.3
C457	4030017420	S.CER ECJ0EC1H470J	B	46.7/44
C458	4030017460	S.CER ECJ0EB1E102K	B	70.4/9.5
C459	4030017460	S.CER ECJ0EB1E102K	B	57.2/13.2
C460	4030017460	S.CER ECJ0EB1E102K	B	58.4/13
C461	4030017730	S.CER ECJ0EB1E471K	T	72.6/5.3
C462	4550006250	S.TAN TEESVA 1A 106M8R	B	103.4/41.4
C601	4030016790	S.CER ECJ0EB1C103K	T	11/32.3
C602	4030016790	S.CER ECJ0EB1C103K	T	7.3/40.9
C603	4030017380	S.CER ECJ0EC1H050B	T	9.9/40.1
C604	4030016930	S.CER ECJ0EB1A104K	T	11.5/40.9
C605	4030017460	S.CER ECJ0EB1E102K	T	8.1/38
C606	4030016930	S.CER ECJ0EB1A104K	T	8.5/41.8
C607	4030017620	S.CER ECJ0EC1H100C	T	7.9/43.1
C608	4030018910	S.CER C1608 JB 0J 475K-T	T	6.6/33.8
C609	4030018910	S.CER C1608 JB 0J 475K-T	T	6.5/35.8
C610	4030016930	S.CER ECJ0EB1A104K	T	13.5/44.4
C611	4030018910	S.CER C1608 JB 0J 475K-T	B	3.8/15.4
C612	4030016930	S.CER ECJ0EB1A104K	B	3.8/16.5
C614	4030016930	S.CER ECJ0EB1A104K	B	3.8/14.3
C615	4030016930	S.CER ECJ0EB1A104K	B	10.6/10.8
C616	4030016950	S.CER ECJ0EB1A473K	B	8.3/10.8
C617	4030018860	S.CER ECJ0EB0J105K	B	6.6/10.8
C618	4030016790	S.CER ECJ0EB1C103K	T	5.7/31.5
C619	4030016930	S.CER ECJ0EB1A104K	B	13.3/6.9
C620	4030018860	S.CER ECJ0EB0J105K	T	5.7/30.5
C621	4030018860	S.CER ECJ0EB0J105K	B	10.1/20.9
C623	4030016950	S.CER ECJ0EB1A473K	B	10.6/9.9
C624	4030016790	S.CER ECJ0EB1C103K	T	21.3/16.6
C625	4030017460	S.CER ECJ0EB1E102K	B	20.9/10.5
C626	4030017460	S.CER ECJ0EB1E102K	B	13.6/20.1
C627	4030018860	S.CER ECJ0EB0J105K	B	12.2/18.5
C628	4030018860	S.CER ECJ0EB0J105K	B	9/9
C629	4030016790	S.CER ECJ0EB1C103K	B	16.4/16.7
C630	4030017420	S.CER ECJ0EC1H470J	B	13.6/19.2
C631	4030016930	S.CER ECJ0EB1A104K	B	18.2/14.9
C632	4030017420	S.CER ECJ0EC1H470J	B	8.1/7.2
C633	4030017450	S.CER ECJ0EB1E271K	B	18.5/13.7
C634	4030016930	S.CER ECJ0EB1A104K	B	23.7/20
C635	4030017730	S.CER ECJ0EB1E471K	B	17.3/11.6
C636	4030017460	S.CER ECJ0EB1E102K	T	21.1/22.4
C637	4030016930	S.CER ECJ0EB1A104K	B	23.2/22.8
C638	4030017680	S.CER ECJ0EC1H820J	B	16.8/10.4
C639	4030017730	S.CER ECJ0EB1E471K	B	22.5/20.3
C640	4030018910	S.CER C1608 JB 0J 475K-T	T	22/24.5
C641	4030016930	S.CER ECJ0EB1A104K	B	24.8/17.4
C642	4030016930	S.CER ECJ0EB1A104K	B	19.6/5
C643	4030017590	S.CER ECJ0EC1H070C	B	19.6/14.6
C644	4030016930	S.CER ECJ0EB1A104K	B	17.9/16.5
C645	4030016930	S.CER ECJ0EB1A104K	B	17.9/18.3
C646	4030016930	S.CER ECJ0EB1A104K	B	23.2/15.9
C647	4030018910	S.CER C1608 JB 0J 475K-T	B	17.9/19.4
C648	4030017460	S.CER ECJ0EB1E102K	B	10.3/23
C649	4030018860	S.CER ECJ0EB0J105K	B	16.4/41.6

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C650	4030016930	S.CER ECJ0EB1A104K	B	16.4/40.6
C651	4030018860	S.CER ECJ0EB0J105K	B	16.9/22.2
C652	4030016930	S.CER ECJ0EB1A104K	B	20.9/40.7
C653	4030018860	S.CER ECJ0EB0J105K	B	11.2/41.8
C654	4030016930	S.CER ECJ0EB1A104K	B	10/40.6
C655	4030017460	S.CER ECJ0EB1E102K	B	10/41.5
J401	2610000500	S.CON PB-614SS13-TF	T	60.2/12.9
J402	6510026770	S.CON AXK540147YG	T	25.1/34
J403	6510022221	S.CON 36FLZ-SM2-R-TB(LF)(SN)	T	34.7/9.2
J404	6510025240	S.CON IMSA-9631S-20Y912	T	74.9/10.2
J601	6510026220	S.CON AXK5F14547YG	T	12/6.8
S404	2260003120	SWI SKQJLBA010		
BT1	3020000340	LIT ML-614S/ZT		
EP1	6910015370	S.BEA ACZ1005Y-102-T	B	64.7/14.2
EP2	6910015370	S.BEA ACZ1005Y-102-T	T	78.1/26.3
EP3	6910012350	S.BEA MMZ1608Y 102BT	T	117.6/30.9
EP401	6910016330	S.BEA MMZ1005S 601CT-S	T	46.3/21.9
EP402	6910015370	S.BEA ACZ1005Y-102-T	T	30/23.1
EP601	6910016330	S.BEA MMZ1005S 601CT-S	B	5.5/16.7
EP602	6910016330	S.BEA MMZ1005S 601CT-S	T	6.1/38.5
EP603	6910016330	S.BEA MMZ1005S 601CT-S	T	23.2/16.2
EP604	6910016330	S.BEA MMZ1005S 601CT-S	T	11.1/11.1
MP1	6910014760	S.PLA OG-503040	B	79.9/27.4
MP2	8510018910	S.CAS 3062 VCO CASE Y1092	T	95.9/19.1

[FUSE UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200006190	S.COI BLM21PG300SN1D (BLM21P300S)	T	8.5/10.2
C1	4030016930	S.CER ECJ0EB1A104K	T	4.5/9.3
C2	4030017460	S.CER ECJ0EB1E102K	T	5.4/9.3
C3	4030017420	S.CER ECJ0EC1H470J	T	6.3/9.3
C4	4030017420	S.CER ECJ0EC1H470J	T	8.8/7.8
C5	4030017460	S.CER ECJ0EB1E102K	T	8.8/7.8
C6	4030016930	S.CER ECJ0EB1A104K	T	11.1/9.8
J1	6910016860	CON IMSA-9230B-1-02Z150-PT1		
F1	5210000970	S.FUS ERBSE3R00U	T	11/8.1

[ANT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
L1	6200013450	S.COI 0.40-2.4-5TL 43.3N <COMO>	T	3.3/10.2
R1	7030003680	S.RES ERJ3GEYJ 104 V (100K)	T	2.6/6
C1	4030007050	S.CER C1608 CH 1H 220J-T	T	2.6/14.1
C3	4030009990	S.CER C1608 CH 1H 200J-T	T	2.6/7.6
C4	4030007030	S.CER C1608 CH 1H 150J-T	T	2.6/12.8

[VR UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R1	7210003300	VAR TP76N937N-21.5F-10KA-3062		
J1	6910017680	CON IMSA-9230B-1-04Z140-PT1		

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

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140010771	S.IC HD64F3687FPV(EMPTY)	B	95.3/24
IC2	1130013050	S.IC HD74LV2GT125AUISE-E	B	76.7/23
IC3	1110005330	S.IC NJM12904V-TE1-#ZZZB	B	108.5/35.7
IC5	1110005310	S.IC AN6123MS	B	99.6/35.7
IC6	1110006770	S.IC TDA8547TS/N	T	113.7/13.1
IC7	1140013200	S.IC CD4053BPWR	B	113.5/35.7
IC9	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	80.2/23.1
IC401	1110006221	S.IC AK2346P-E2/P	B	47.5/21.3
IC402	1130008230	S.IC BU4053BCFV-E2	B	64.1/32.1
IC403	1110006470	S.IC LMV324IPWR	B	26.9/21.5
IC404	1110007290	S.IC AK2330P-L	B	66/21.8
IC405	1130011741	S.IC TC7W66FK(TE85L,F)	B	77/29.4
IC408	1110006470	S.IC LMV324IPWR	B	79.4/36.6
Q1	1590000980	S.TRA DTB123EK T146	T	116.1/31.1
Q2	1590003450	S.TRA UNR9214J-(TX)	T	117.1/27.9
Q4	1590001190	S.TRA XP6501-(TX).AB	T	113.3/20.6
Q5	1520000460	S.TRA 2SB1132 T100 R	B	108.9/21.7
Q6	1590003450	S.TRA UNR9214J-(TX)	T	118.8/36.1
Q7	1590003450	S.TRA UNR9214J-(TX)	B	109/11.9
Q8	1590001400	S.TRA XP1214(TX)	T	138/13.4
Q9	1590003240	S.TRA UNR9114J-(TX)	T	114.9/34.6
Q11	1590003450	S.TRA UNR9214J-(TX)	B	109/9.2
Q12	1510000920	S.TRA 2SA1577 T106 Q	B	111.6/9.8
Q13	1590003550	S.TRA XP4313(TX)	B	104.5/30.4
Q409	1590003450	S.TRA UNR9214J-(TX)	B	21.4/16.1
Q417	1590003450	S.TRA UNR9214J-(TX)	B	73.2/31.8
D1	1790001260	S.DIO MA2S077-(TX)	B	92.1/12.8
D2	1790001250	S.DIO MA2S111-(TX)	B	103.9/15.3
D3	1750000520	S.DIO DAN222TL	T	116.7/7.8
D4	1750000520	S.DIO DAN222TL	B	133.5/11.4
X1	6050011720	S.XTA CR-764 SMD-49TB 19.6608 MHz	B	94.4/6.5
X401	6050011730	S.XTA CR-765 SMD-49TA 3.6864 MHz	B	54.7/10
L401	6200011031	S.COI ELJRF R10JFB	B	50.8/26.2
R1	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	74.6/44.6
R2	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T]	B	72.7/44.6
R3	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	70.3/44.6
R4	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	96.3/14.3
R5	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	97.2/14.3
R6	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/36.5
R7	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	92.7/14.3
R8	7030005530	S.RES ERJ2GEJ 100 X (10)	B	94.5/14.3
R9	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	90.9/14.3
R10	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/24
R11	7030005000	S.RES ERJ2GEJ 471 X (470) [F9011S]	T	108.7/13.5
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	98.1/14.3
R13	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/37.5
R14	7030010040	S.RES ERJ2GEJ-JPW [F9011B]	B	89.1/14.3
R15	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	99.1/14.3
R16	7030007250	S.RES ERJ2GEJ 220 X (22) [F9011S]	T	124.2/36.6
R17	7410001140	S.ARR EXB28V104JX	B	86.3/20
R18	7030005230	S.RES ERJ2GEJ 334 X (330K)	T	110.7/19.4
R19	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	110.7/21.2
R21	7410001140	S.ARR EXB28V104JX	B	104.1/24
R22	7030005120	S.RES ERJ2GEJ 103 X (1K)	T	115.7/20.2
R23	7410001140	S.ARR EXB28V104JX	B	104.1/21.4
R24	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	104.2/19.7
R25	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	115.7/22.9
R26	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	115.7/22
R27	7410001140	S.ARR EXB28V104JX	B	104.1/27.9
R28	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	85.8/26.2
R29	7030010040	S.RES ERJ2GEJ-JPW	B	72.2/38.3
R30	7030004980	S.RES ERJ2GEJ 101 X (100)	B	110.5/31.4
R32	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	74/38.3
R33	7030004980	S.RES ERJ2GEJ 101 X (100)	B	103.2/39.1
R34	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	78.4/33
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	73.1/38.3
R36	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	76/39.9
R37	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	104.2/16.7
R38	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	110.2/28.4
R39	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	96.8/37.7
R40	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	110.6/26.2
R41	7030007060	S.RES ERJ2GEJ 684X (680K)	B	108/40.4
R42	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.1/28.4
R43	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	111.5/30.2
R44	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	B	108/41.4
R45	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.4/14.7
R46	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.4/16.5
R47	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	110.1/42.6
R48	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	108.6/14.3
R49	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	108.6/16.1
R50	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	111.8/31.5
R51	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	109.4/32.9
R52	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	B	103.2/35.5
R53	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	103.2/37.3
R54	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	109.2/42.6

[FRONT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R55	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	108.6/15.2
R56	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	108.6/17
R58	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	110.6/14.3
R59	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	108.6/13.4
R61	7030005000	S.RES ERJ2GEJ 471 X (470)	B	104.7/35.4
R62	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	110.2/30.6
R63	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	110.6/13.4
R65	7030005530	S.RES ERJ2GEJ 100 X (10)	B	110.6/16.1
R67	7520000270	S.POS PRG21BC4R7MM1RA	B	135.9/9.9
R68	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	115.3/36.5
R69	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	116.2/36.5
R70	7030007280	S.RES ERJ2GEJ 331 X (330)	T	140/13.3
R71	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	110.7/34.9
R72	7030005000	S.RES ERJ2GEJ 471 X (470)	T	140.9/13.3
R73	7030004970	S.RES ERJ2GEJ 470 X (47)	T	115.7/18.4
R74	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	111.6/36.5
R75	7030004970	S.RES ERJ2GEJ 470 X (47)	T	115.7/19.3
R76	7030004970	S.RES ERJ2GEJ 470 X (47)	B	132.8/9.6
R77	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	109.8/36.5
R78	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	109.8/34.9
R79	7030004970	S.RES ERJ2GEJ 470 X (47)	T	120.6/8.8
R80	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	120.6/11.4
R81	7030004970	S.RES ERJ2GEJ 470 X (47)	T	120.6/10.5
R85	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	110.1/9.1
R86	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T] only	B	70.8/44.6
R87	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011T] only	B	69.8/44.6
R89	7030007290	S.RES ERJ2GEJ 222 X (2.2K) [F9011S]	B	73.6/44.6
R90	7030003200	S.RES ERJ3GEYJ 100 V (10)	T	115.3/17.3
R91	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	119.7/6.3
R92	7410001140	S.ARR EXB28V104JX	T	114.3/28.3
R93	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	86.4/24.1
R94	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	86.4/25
R95	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	78.4/23.2
R96	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	118.3/7.6
R402	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	40.9/16.5
R403	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	67.7/35.7
R405	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	68.1/38.4
R407	7030011660	S.RES ERJ2RKF 1002 (10K)	B	42.1/17
R408	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	41.7/21.3
R409	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	41.2/15.2
R411	7030005000	S.RES ERJ2GEJ 471 X (470)	B	44.5/28.8
R412	7030005000	S.RES ERJ2GEJ 471 X (470)	B	50.8/27.2
R413	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	53.2/18.9
R414	7030011660	S.RES ERJ2RKF 1002 (10K)	B	41.7/20.4
R417	7030006610	S.RES ERJ2GEJ 394 X (390K)	B	40.6/28.4
R418	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	40.6/30
R426	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	42.4/30
R430	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	58.2/10.2
R433	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	53.6/27.1
R434	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	53.2/20.5
R435	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	55/20.5
R436	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	53.6/26.2
R438	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	B	58.8/28.4
R439	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	58.8/31.1
R440	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	67.1/27.8
R441	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	54.1/18.9
R444	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	67.1/28.7
R450	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	69.5/32.6
R451	7030010040	S.RES ERJ2GEJ-JPW	B	75/33.2
R452	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	67.1/25.7
R453	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	21.4/21.8
R454	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	19.6/21.8
R455	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	84/36.9
R456	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	68.1/36.6
R458	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	20.5/23.5
R459	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	84/38.5
R460	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	73.1/36.4
R461	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	22.3/23.5
R462	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	72/23.9
R464	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	74/36.4
R465	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	78.4/27.6
R466	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	73.8/29.6
R467	7030005000	S.RES ERJ2GEJ 471 X (470)	B	69.3/23.9
R468	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	65.2/26.1
R469	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	64.3/26.1
R470	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	32/17.9
R471	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	61.5/26.1
R475	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	23.5/17.9
R476	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	32/20.6
R477	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	32/23.3
R479	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25.2/17.9
R481	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	21.8/32.6
R483	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	15.8/32.1
R484	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25.2/17
R486	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	26.9/17
R488	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	32/21.5
R490	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	26.9/17.9
R491	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	26.9/16.1
R492	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	33.7/21.5
R493	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	33.7/22.4
R496	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	67.9/17.1
R497	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	66.6/17.1
R498	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	86.1/36
R499	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	84.9/35.3
R500	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	80.4/33
R501	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	73.8/28.6
R503	7030010040	S.RES ERJ2GEJ-JPW	B	21.8/31
R504	7030010040	S.RES ERJ2GEJ-JPW	B	15.8/33.1
R505	7030005120	S.RES ERJ2GEJ 10		

**[FRONT UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R509	7030010040	S.RES ERJ2GEJ-JPW	B	22.7/6.3
R510	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	33.7/23.3
R511	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	33.7/18.8
C1	4030017630	S.CER ECJ0EC1H120J	B	95.4/14.3
C2	4030017580	S.CER ECJ0EC1H060C	B	91.8/14.3
C3	4030017640	S.CER ECJ0EC1H150J	B	93.6/14.3
C4	4030016790	S.CER ECJ0EB1C103K	B	90/14.3
C5	4030016790	S.CER ECJ0EB1C103K [F9011S]	T	124.2/39.3
	4030016790	S.CER ECJ0EB1C103K [F9011T]		
C6	4030016930	S.CER ECJ0EB1A104K	B	100/14.3
C7	4030016930	S.CER ECJ0EB1A104K	B	96.1/15.7
C8	4550000460	S.TAN TEESVA 1C 105M8R [F9011S]	B	117.9/37.1
	4550000460	S.TAN TEESVA 1C 105M8R [F9011T]		
C9	4550006250	S.TAN TEESVA 1A 106M8R	B	97.5/12.2
C10	4030016930	S.CER ECJ0EB1A104K [F9011S]	T	124.2/40.2
	4030016930	S.CER ECJ0EB1A104K [F9011T]		
C11	4030017460	S.CER ECJ0EB1E102K	B	104.2/18.5
C12	4030016930	S.CER ECJ0EB1A104K	T	110.7/20.3
C13	4030017460	S.CER ECJ0EB1E102K	T	115.7/21.1
C14	4030016930	S.CER ECJ0EB1A104K	T	116.9/21.8
C15	4030017460	S.CER ECJ0EB1E102K	T	117.8/21.8
C16	4030017770	S.CER ECJ0EB1E332K	B	71.3/38.3
C17	4550007880	S.TAN TEESVB2 1A 686M8R	B	110.2/27.9
C19	4030016930	S.CER ECJ0EB1A104K	B	105.6/35.4
C20	4550007880	S.TAN TEESVB2 1A 686M8R	T	130.3/9.8
C21	4030016790	S.CER ECJ0EB1C103K	B	104.2/17.6
C22	4550006250	S.TAN TEESVA 1A 106M8R	B	100.7/40.5
C23	4550007880	S.TAN TEESVB2 1A 686M8R	T	133.6/9.8
C24	4030018140	S.CER ECJ0EB1H391K	B	75/38.3
C25	4550006250	S.TAN TEESVA 1A 106M8R	B	98.4/40.5
C26	4550006250	S.TAN TEESVA 1A 106M8R	B	74.9/42.1
C27	4030017460	S.CER ECJ0EB1E102K	B	78/39.9
C29	4030016930	S.CER ECJ0EB1A104K	T	110.6/27.1
C30	4030016930	S.CER ECJ0EB1A104K	B	106.5/14.7
C31	4030016930	S.CER ECJ0EB1A104K	B	106.5/16.5
C32	4030011810	S.CER C1608 JB 1A 224K-T	B	107.5/43.3
C33	4030017730	S.CER ECJ0EB1E471K	B	109.6/40.4
C34	4030017460	S.CER ECJ0EB1E102K	T	113/32.4
C35	4030016930	S.CER ECJ0EB1A104K	B	103.2/36.4
C36	4030016960	S.CER ECJ0EB1C183K	B	109.6/41.4
C37	4030018860	S.CER ECJ0EB0J105K	B	110.2/31.5
C38	4030016960	S.CER ECJ0EB1C183K	B	104.7/37
C39	4030018080	S.CER ECJ0EB1H182K	T	110.2/29.7
C40	4030016930	S.CER ECJ0EB1A104K	B	103.2/38.2
C41	4550006250	S.TAN TEESVA 1A 106M8R	T	119.3/14.4
C42	4030017460	S.CER ECJ0EB1E102K	T	117.1/36.5
C43	4030016950	S.CER ECJ0EB1A473K	B	110.6/17
C44	4030016930	S.CER ECJ0EB1A104K	T	114.4/36.5
C45	4550007880	S.TAN TEESVB2 1A 686M8R	T	123.6/9.8
C46	4550007880	S.TAN TEESVB2 1A 686M8R	T	126.9/9.8
C47	4030018860	S.CER ECJ0EB0J105K	T	112.5/36.5
C48	4030016970	S.CER ECJ0EB1C223K	B	116.7/7.6
C49	4030016930	S.CER ECJ0EB1A104K	T	111.6/34.9
C50	4030017460	S.CER ECJ0EB1E102K	T	110.7/36.5
C51	4030017460	S.CER ECJ0EB1E102K	T	111.9/33.3
C52	4030017460	S.CER ECJ0EB1E102K	B	134.1/9.6
C53	4030017400	S.CER ECJ0EC1H220J	B	127.5/6.3
C54	4030017400	S.CER ECJ0EC1H220J	B	126.6/6.3
C56	4030016790	S.CER ECJ0EB1C103K	B	118.8/6.3
C59	4030017460	S.CER ECJ0EB1E102K	B	123.7/6.3
C60	4030017400	S.CER ECJ0EC1H220J	B	120.6/6.3
C61	4030017460	S.CER ECJ0EB1E102K	B	122.8/6.3
C62	4030017400	S.CER ECJ0EC1H220J	B	121.5/6.3
C63	4030017730	S.CER ECJ0EB1E471K	B	117/6.3
C64	4030017460	S.CER ECJ0EB1E102K	T	135.6/14.3
C65	4030017460	S.CER ECJ0EB1E102K	T	136.2/11.5
C67	4550006250	S.TAN TEESVA 1A 106M8R [F9011S]	B	120/37.1
	4550006250	S.TAN TEESVA 1A 106M8R [F9011T]		
C68	4030016790	S.CER ECJ0EB1C103K [F9011S]	T	124.2/38.4
	4030016790	S.CER ECJ0EB1C103K [F9011T]		
C69	4030018860	S.CER ECJ0EB0J105K	T	112.3/29
C70	4030008920	S.CER C1608 JB 1H 473K-T	T	111.5/17.3
C71	4030017460	S.CER ECJ0EB1E102K	B	124.2/45.6
C72	4030017460	S.CER ECJ0EB1E102K	B	114.6/45.6
C73	4030017460	S.CER ECJ0EB1E102K	B	105.1/45.6
C74	4550006250	S.TAN TEESVA 1A 106M8R	B	103.5/33
C75	4550007880	S.TAN TEESVB2 1A 686M8R	T	121.2/33.4
C401	4030017420	S.CER ECJ0EC1H470J	B	43.1/25.7
C402	4030017420	S.CER ECJ0EC1H470J	B	53.6/23.9
C403	4030017420	S.CER ECJ0EC1H470J	B	42.2/24.8
C404	4030017420	S.CER ECJ0EC1H470J	B	53.6/24.8
C405	4030016970	S.CER ECJ0EB1C223K	B	53.7/17.7
C406	4030017420	S.CER ECJ0EC1H470J	B	42.2/23.9
C407	4030018860	S.CER ECJ0EB0J105K	B	68.1/37.5
C409	4030016930	S.CER ECJ0EB1A104K	B	42.1/15.2
C410	4030017460	S.CER ECJ0EB1E102K	B	40.9/17.4
C411	4030017420	S.CER ECJ0EC1H470J	B	42.2/23
C412	4550000460	S.TAN TEESVA 1C 105M8R	B	37.4/20.3
C413	4030017420	S.CER ECJ0EC1H470J	B	39.7/28.4
C415	4550000460	S.TAN TEESVA 1C 105M8R	B	37.4/18.2
C416	4030017760	S.CER ECJ0EB1H222K	B	41.5/30
C417	4030016930	S.CER ECJ0EB1A104K	B	43.3/30
C418	4030017460	S.CER ECJ0EB1E102K	B	53.6/28
C420	4030017400	S.CER ECJ0EC1H220J	B	51.3/6.1
C421	4030017710	S.CER ECJ0EC1H181J	B	52.4/26.7
C422	4550006250	S.TAN TEESVA 1A 106M8R	B	37.4/22.4
C424	4030017460	S.CER ECJ0EB1E102K	B	39.5/24.2
C425	4030017400	S.CER ECJ0EC1H220J	B	51.3/13.8
C427	4030017780	S.CER ECJ0EB1E472K	B	58.8/32.9
C429	4030018860	S.CER ECJ0EB0J105K	B	54.1/20.5
C430	4030017770	S.CER ECJ0EB1E332K	B	58.8/29.3
C431	4030017030	S.CER ECJ0EB1A273K	B	58.8/30.2

**[FRONT UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C433	4030018820	S.CER ECJ0EB1H561K	B	59.7/32.9
C434	4030016930	S.CER ECJ0EB1A104K	B	55.3/27.1
C435	4030016930	S.CER ECJ0EB1A104K	B	69.5/28.7
C436	4030016790	S.CER ECJ0EB1C103K	B	69.5/33.5
C438	4030017460	S.CER ECJ0EB1E102K	B	69.5/31.7
C440	4030018900	S.CER ECJ0EB0J474K	B	20.5/25.2
C441	4030016930	S.CER ECJ0EB1A104K	B	84.9/36.9
C442	4030018820	S.CER ECJ0EB1H561K	B	84.9/38.5
C443	4030016930	S.CER ECJ0EB1A104K	B	20.5/21.8
C444	4030016930	S.CER ECJ0EB1A104K	B	69.8/22.6
C445	4030016930	S.CER ECJ0EB1A104K	B	75/36.4
C446	4030016930	S.CER ECJ0EB1A104K	B	65.7/17.1
C447	4030016930	S.CER ECJ0EB1A104K	B	80/27.6
C448	4030016930	S.CER ECJ0EB1A104K	B	70.2/23.9
C449	4030016930	S.CER ECJ0EB1A104K	B	73.8/27.6
C451	4030016930	S.CER ECJ0EB1A104K	B	63.4/26.1
C452	4030017460	S.CER ECJ0EB1E102K	B	62.5/26.1
C453	4030016930	S.CER ECJ0EB1A104K	B	33.7/17.1
C456	4030018860	S.CER ECJ0EB0J105K	B	68.9/35.3
C457	4030017420	S.CER ECJ0EC1H470J	B	32/17
C460	4030018910	S.CER C1608 JB 0J 475K-T	B	70.2/36.7
C461	4030017420	S.CER ECJ0EC1H470J	B	23.5/15.2
C462	4030017910	S.CER ECJ0EB1H152K	B	32/18.8
C464	4030016930	S.CER ECJ0EB1A104K	B	23.5/16.1
C465	4030017430	S.CER ECJ0EC1H101J	B	32/19.7
C466	4030016930	S.CER ECJ0EB1A104K	B	19.7/31.1
C469	4030017750	S.CER ECJ0EB1E122K	B	21.4/20.1
C472	4030017420	S.CER ECJ0EC1H470J	B	32/24.2
C473	4030016930	S.CER ECJ0EB1A104K	B	23.5/18.8
C474	4030017760	S.CER ECJ0EB1H222K	B	32/22.4
C475	4030016960	S.CER ECJ0EB1C183K	B	25.2/16.1
C476	4030017690	S.CER ECJ0EC1H121J	B	30.3/24.2
C477	4030016930	S.CER ECJ0EB1A104K	B	20.5/20.1
C478	4030017460	S.CER ECJ0EB1E102K	B	19.6/20.1
C479	4030017460	S.CER ECJ0EB1E102K	B	33.7/20.6
C480	4030016930	S.CER ECJ0EB1A104K	B	64.2/17.1
C482	4030017460	S.CER ECJ0EB1E102K	B	84/35.3
C484	4030018860	S.CER ECJ0EB0J105K	B	62.8/19.2
C485	4030018860	S.CER ECJ0EB0J105K	B	33.7/17.9
J1	6510025240	S.CON IMSA-9631S-20Y912	B	77.7/13.4
J2	6510025250	S.CON IMSA-9631S-08Y912 [F9011S]	B	125.2/37.2
	6510025250	S.CON IMSA-9631S-08Y912 [F9011T]		
J3	6510026310	S.CON IMSA-9631S-14Y912	B	123.7/11.2
J4	6510025260	S.CON IMSA-9631S-10Y912	B	116.4/25.3
J5	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	114.4/16.5
J406	6510022221	S.CON 36FLZ-SM2-R-TB(LF)(SN)	B	37.4/7.1
DS1	5030003140	LCD M7-0626TIZ [F9011S]		
	5030003140	LCD M7-0626TIZ [F9011T]		
DS2	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/31.2
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS3	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	60.7/16.7
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS4	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/31.2
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS5	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011S]	T	37.6/16.7
	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T]		
DS6	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/31.2
DS7	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	28.6/16.7
DS8	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/31.2
DS9	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	20.6/16.7
DS10	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/31.2
DS11	5040003280	S.LED RY-SP192UYG24-5M <VKH> [F9011T] only	T	12.6/16.7
DS12	5040002960	S.LED SML-A12MT T86 [F9011S]	T	107.3/34.5
	5040002960	S.LED SML-A12MT T86 [F9011T]		
DS13	5040002960	S.LED SML-A12MT T86 [F9011S]	T	107.3/24
	5040002960	S.LED SML-A12MT T86 [F9011T]		

**[FRONT UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
S23	2230001060	S.SWI EVQ-PUL 02K	B	143.4/5.7
S25	2260002800	S.SWI SW-167 (SKQTLAE010)	B	128.9/46.9
S26	2260002800	S.SWI SW-167 (SKQTLAE010)	B	119.4/46.9
S27	2260002800	S.SWI SW-167 (SKQTLAE010)	B	109.9/46.9
EP401	6910015600	S.BEA ACZ1005Y-241 (240)	B	41.7/18.3
EP403	6910015370	S.BEA ACZ1005Y-102-T	B	37.9/24.2

**[JACK UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	9/35.4
D2	1790001810	S.VAR AVR-M1005C080MTABB	B	7.4/35.4
D3	1790001810	S.VAR AVR-M1005C080MTABB	B	10.3/33.6
D4	1790001810	S.VAR AVR-M1005C080MTABB	B	8.8/33.6
D5	1790001810	S.VAR AVR-M1005C080MTABB	B	7.9/33.6
D6	1790001810	S.VAR AVR-M1005C080MTABB	B	7/33.6
J1	6510026310	S.CON IMSA-9631S-14Y920	T	8.4/31.7
EP1	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/33.5
EP2	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/34.8
EP3	6910012350	S.BEA MMZ1608Y 102BT	B	3.8/36
EP4	6910012350	S.BEA MMZ1608Y 102BT	T	1.9/23.5

**[SW UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R2	7030005010	S.RES ERJ2GEJ 681 X (680)	T	4/9.9
J1	6510025260	S.CON IMSA-9631S-10Y912	B	6.5/3.3
J2	6510021901	S.CON BM02B-ASRS-TF(LF)(SN)	B	2.5/8.9

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

# SECTION 8

# MECHANICAL PARTS

## [CHASSIS PARTS]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6910015860	IMSA-6277S-O2A-G	1
J2	6910019780	3062 ANT CONNECTOR	1
S1	2260003170	AJN121101	1
SP1	2510001330	036D0803	1
W1**	8900017660	OPC-1877	1
W2**	8900013541	OPC-1410A	1
W3**	8900015480	OPC-1447A	1
W4**	8900017670	OPC-1878	1
W5**	8900016000	OPC-1129A	1
W6**	8900016000	OPC-1129A	1
MP1	8210025031	3062 FRONT PANEL	[F9011B] 1
	8210025021	3062 S-FRONT PANEL	[F9011S] 1
	8210024980	3062 T-FRONT PANEL	1
		(Incl. MP3-6, 19, 11-16, 18, 21, 24, 29, 31, 32, 36, 42, 58, 59, 63, 60, 66, S1)	[F9011T] 1
MP2	8210024770	3062 REAR PANEL	1
MP3	8310071770	3062 WINDOW PLATE	[F9011S] 1
	8310071770	3062 WINDOW PLATE	[F9011T] 1
MP4	8210024780	3062 PTT PANEL	1
MP5	8930075240	3062 PTT BUTTON	1
MP6	8930075420	3062 WINDOW SHEET	[F9011S] 1
	8930075420	3062 WINDOW SHEET	[F9011T] 1
MP7	8610013701	KNOB N-374-S1 *	1
MP8	8610013721	KNOB N-373 ASSEMBLY-1	1
MP10	8610013680	KNOB N-372	1
MP11	8930075250	3062 A-BUTTON	1
MP12	8930075260	3062 B-BUTTON	1
MP13	8930075270	3062 C-BUTTON	1
MP14	8930075280	3062 A-LENS	1
MP15	8930075290	3062 B-LENS	1
MP16	8510018900	3062 SW PLATE	1
MP17	8010021180	3062 CHASSIS	1
MP18	8930076420	3062 S-KEYBOARD	[F9011S] 1
	8930075320	3062 KEYBOARD	[F9011T] 1
MP19	8930075330	3062 PTT RUBBER	1
MP20	8930075340	3062 MAIN SEAL	1
MP21	8930075351	3062 TOP KEY-1	1
MP22	8930070362	2775 RELEASE PLATE (A)-2	1
MP24	8930066410	2803 MIC TAPE	1
MP25	8930059830	2600 SHEET	1
MP26	8930075370	3062 MIC SEAL	1
MP28	8930069710	THERMALLY SHEET (BC)	1
MP29	8930059800	2600 PET SHEET	1
MP30	8930075380	3062 PTT SHEET	1
MP31	8930075390	3062 14-PIN SHEET	1
MP32	8950007340	3062 14-PIN CONNECTOR	1
MP34	8930059360	2600 RELEASE BUTTON	1
MP35	8930056540	PUSH SPRING (AH)	2
MP36	8930073610	SP NET (D)	1
MP38	8930057690	O-RING (AQ)	2
MP39	8930063690	O-RING (BA)	2
MP40	8930075400	3062 CONNECTOR SHEET	1
MP41	8930075410	3062 CONNECTOR SEAL	1
MP42	8830003200	3062 INSERT NUT	1
MP43	8830001470	VR NUT (N)	2
MP44	8830001720	2721 ANT NUT	2
MP46	8610009240	KNOB SPRING NO.7800P	2
MP47	8810010750	SCREW BTB0 2X6SUS SSBC (BT)	2
MP49	8810010850	SCREW BTB0 2X8SUS SSBC (BT)	2
MP50	8820001510	3062 SCREW	2
MP51	8810008971	OTAP 1FLAT WASHERB0 2X3.5NI-ZC3 (BT)	9
MP52	8810008971	OTAP 1FLAT WASHERB0 2X3.5NI-ZC3 (BT)	1
MP53	8810010430	SCREW TRUSS M3X5 SUS SSBC	1
MP54	8810008971	OTAP 1FLAT WASHERB0 2X3.5NI-ZC3 (BT)	1
MP55	8930063060	2721 T-RUBBER	1
MP56	8930059590	O-RING (AV)	1
MP57	8810009181	OTAP 1FLAT WASHER B0 2X5 NI-ZC3 (BT)	6
MP58	8930075300	3062 SW HOLDER	1
MP59	8930075312	3062 T-BUTTON HOLDER-2	1
MP60	8930077710	3062 A-SW RUBBER	1
MP61	8930070010	2893 VOL RUBBER	1
MP62	8930075830	3062 EARTH SPRING	1
MP63	8930075940	3062 NAME SHEET	1
MP64	8930076710	3062 EARTH PLATE	1
MP65	8810009181	OTAP 1FLAT WASHER B0 2X5 NI-ZC3 (BT)	[F9011B] only 1
MP66	8930052770	DOUBLESIDED TAPE (Y)	1
MP67	8930076920	3062 MIC SHEET	[F9011B] only 1

## [MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J401*	2610000500	PB-614SS13-TF	1
J402*	6510026770	AXK540147YG	1
J403*	6510022221	36FLZ-SM2-R-TB (LF) (SN)	1
J404*	6510025241	IMSA-9631S-20Y920 *	1
J601*	6510026220	AXK5F14547YG	1
S404	2260003120	SKQJLBA010	1
BT1	3020000340	ML-614S/ZT	1
MP1*	6910014760	OG-503040	1
MP2*	8510018910	3062 VCO CASE	1
MP3	8510018920	3062 VCO COVER	1

## [ANT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP1*	8930065181	2803 ANT PLATE-1	1

## [FRONT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
DS1	5030003140	M7-0626TIZ	[F9011S] 1
	5030003140	M7-0626TIZ	[F9011T] 1
MC1	7700002760	EM6027P-46C33-G-01	[F9011S] 1
	7700002760	EM6027P-46C33-G-01	[F9011T] 1
MC2	7700002760	EM6027P-46C33-G-01	[F9011B] only 1
S23*	2230001060	EVQ-PUL 02K	1
S25*	2260002800	SW-167 (SKQT)	1
S26*	2260002800	SW-167 (SKQT)	1
S27*	2260002800	SW-167 (SKQT)	1
MP2	8210024800	3062 REFLECTOR	[F9011S] 1
	8210024800	3062 REFLECTOR	[F9011T] 1
MP3	8950004430	DOUBLESIDED TAPE (O)	[F9011S] 2
	8950004430	DOUBLESIDED TAPE (O)	[F9011T] 2
MP4	8930062540	SPONGE (HO)	[F9011S] 2
	8930062540	SPONGE (HO)	[F9011T] 2
MP6	8930074230	2893 LCD SHEET	[F9011S] 1
	8930074230	2893 LCD SHEET	[F9011T] 1
MP7	8930069690	SPONGE (IX)	[F9011S] 1
	8930069690	SPONGE (IX)	[F9011T] 1

## [JACK UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510026310	IMSA-9631S-14Y920 *	1

## [VR UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
R1	7210003300	TP76N937N-21.5F-10KA-3062	1
J1	6910017680	9230B-1-04Z140-PT1	1

## [FUSE UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6910016860	IMSA-9230B-1-02Z150-PT1	1
F1*	5210000970	ERBSE3R00U	1

## [SW UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510025261	IMSA-9631S-10Y920 *	1
J2*	6510021901	BM02B-ASRS-TF (LF) (SN)	1
DS1	5040003170	UW3804X	1
S2	2250000610	TP70H1059-24.5F-3062	1

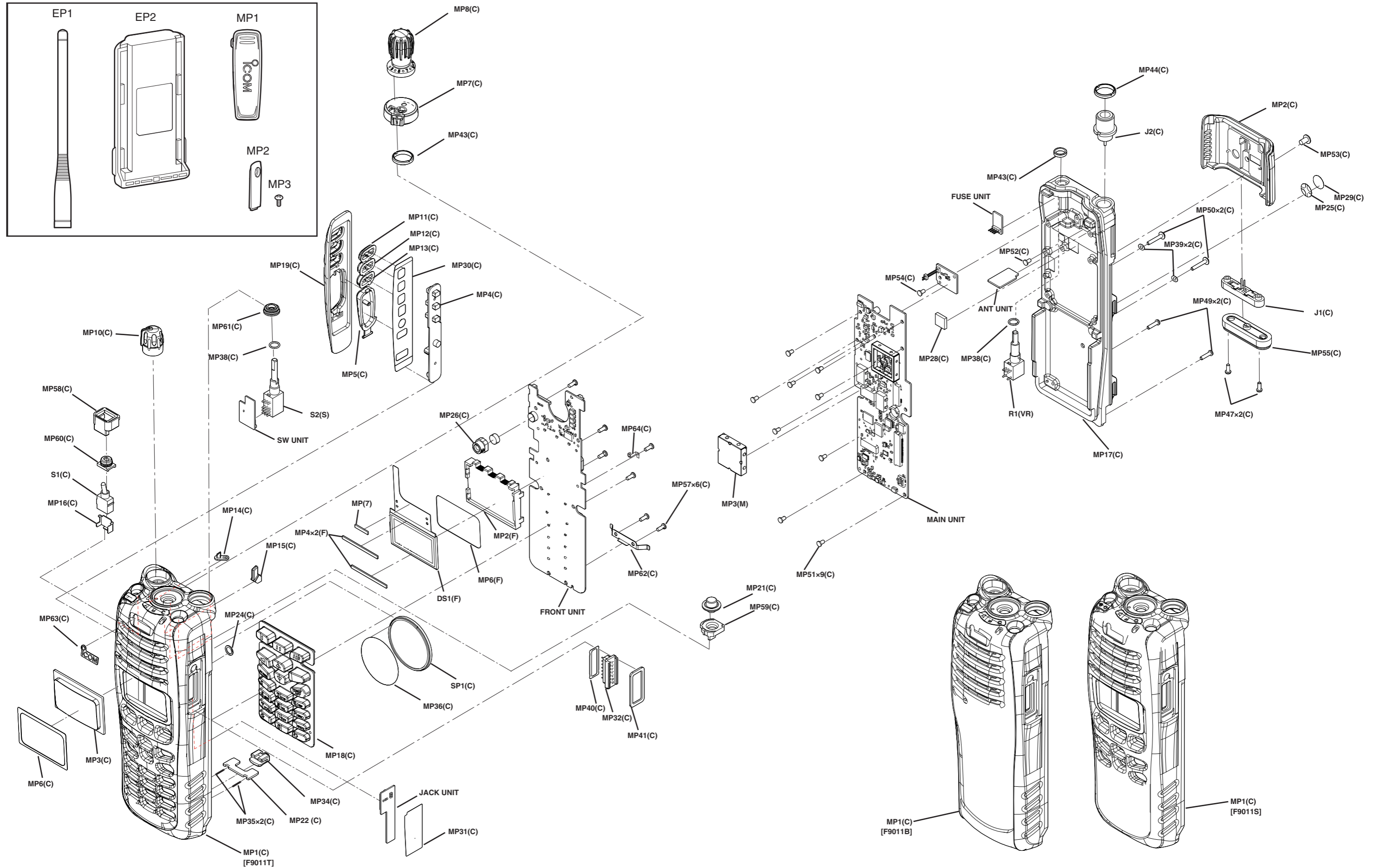
\*: Refer to "BOARD LAYOUTS" for the location.

\*\* : 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

**[ACCESSORIES]**

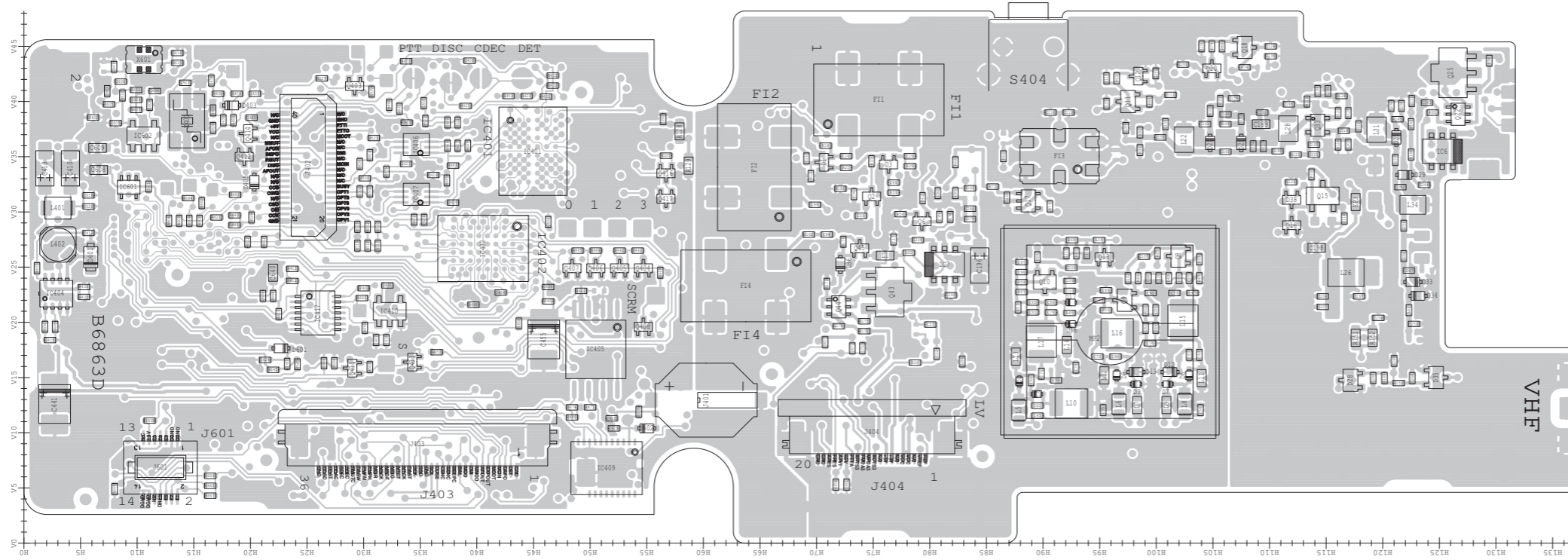
REF NO.	ORDER NO.	DESCRIPTION	QTY.
EP1	(an option)	FA-S65V	1
EP2	(an option)	BP-254	1
MP1	(an option)	MB-115	1
MP2	8210024790	3062 SIDE PANEL	1
MP3	8810010770	SCREW TRUSS M4X5 SUS SSBC	1



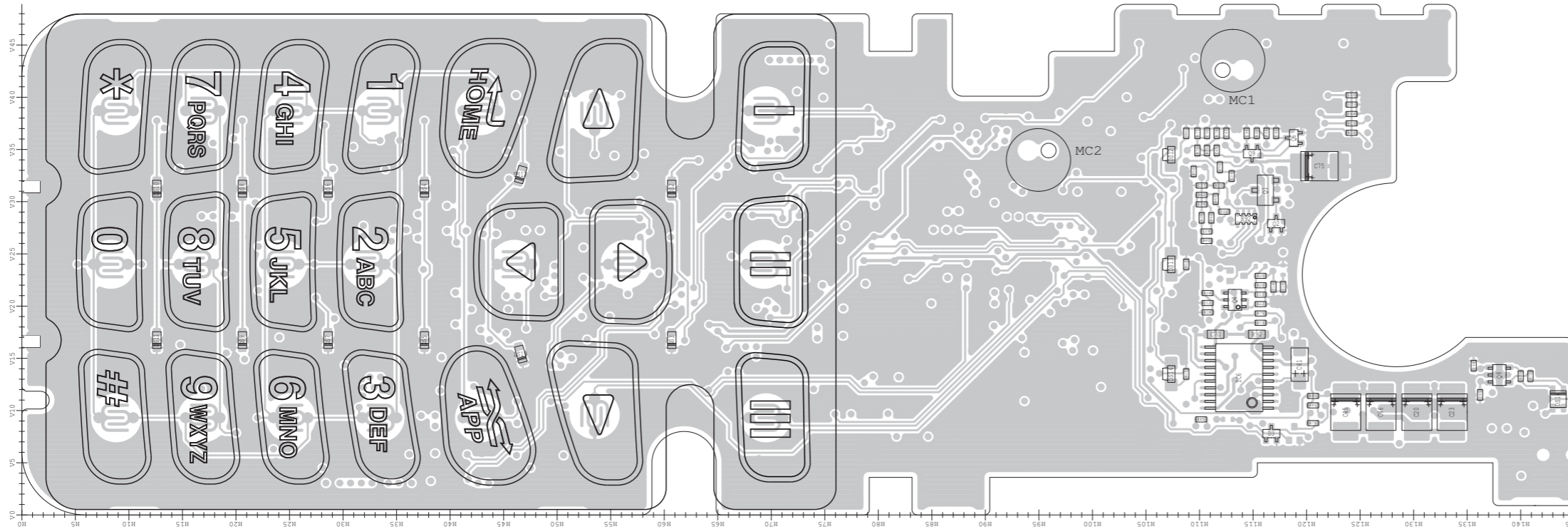
# SECTION 9

# BOARD LAYOUTS

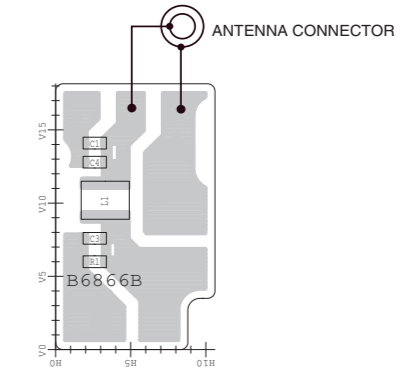
• MAIN UNIT  
(TOP VIEW)



• FRONT UNIT  
(TOP VIEW)

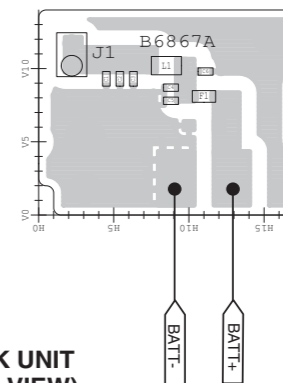


• ANT UNIT  
(TOP VIEW)

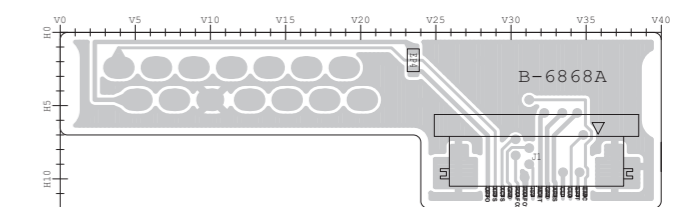


The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

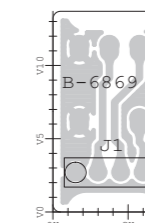
• FUSE UNIT  
(TOP VIEW)



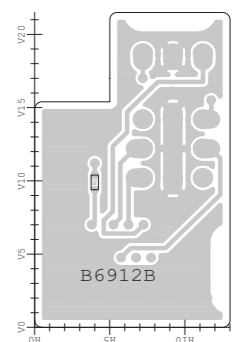
• JACK UNIT  
(TOP VIEW)



• VR UNIT  
(TOP VIEW)

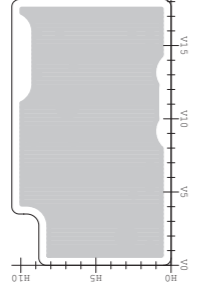


• SW UNIT  
(TOP VIEW)

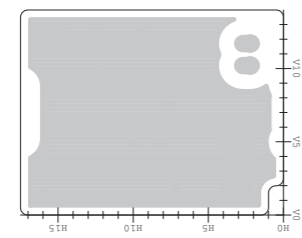


The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

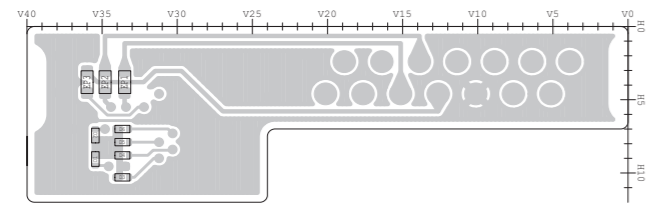
• ANT UNIT (BOTTOM VIEW)



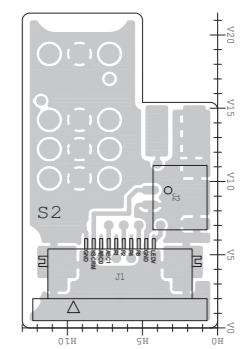
• FUSE UNIT (BOTTOM VIEW)



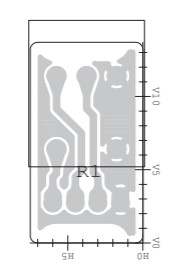
• JACK UNIT (BOTTOM VIEW)



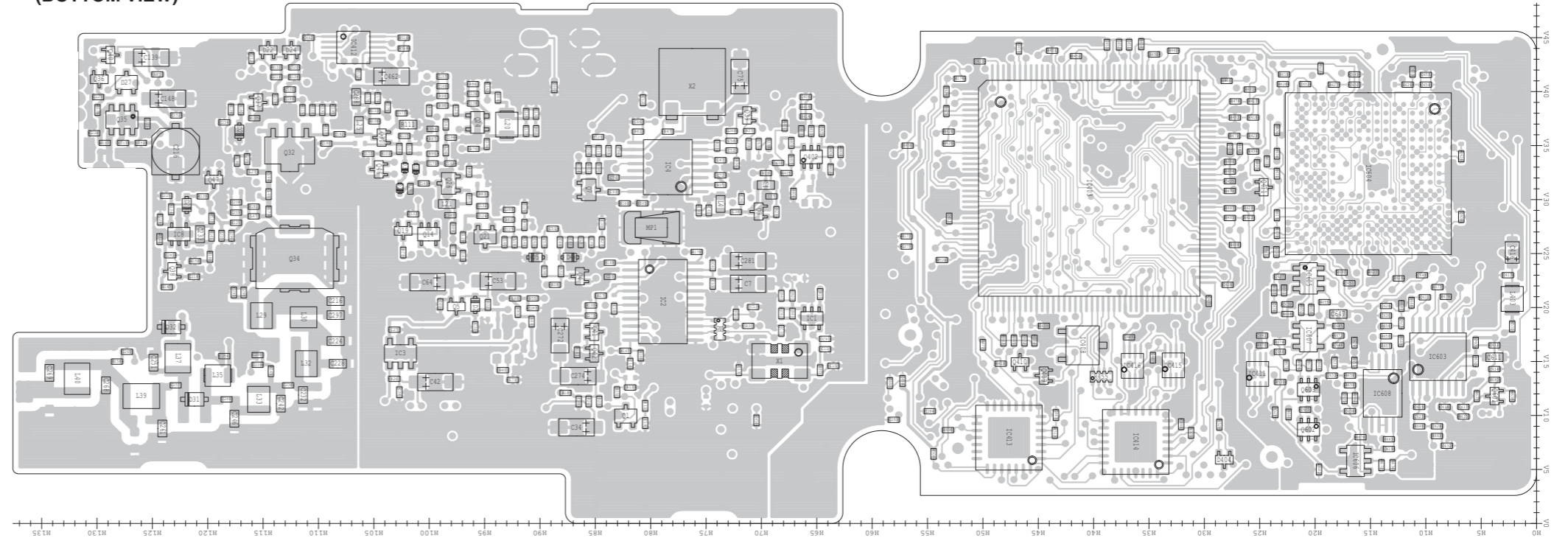
• SW UNIT (BOTTOM VIEW)



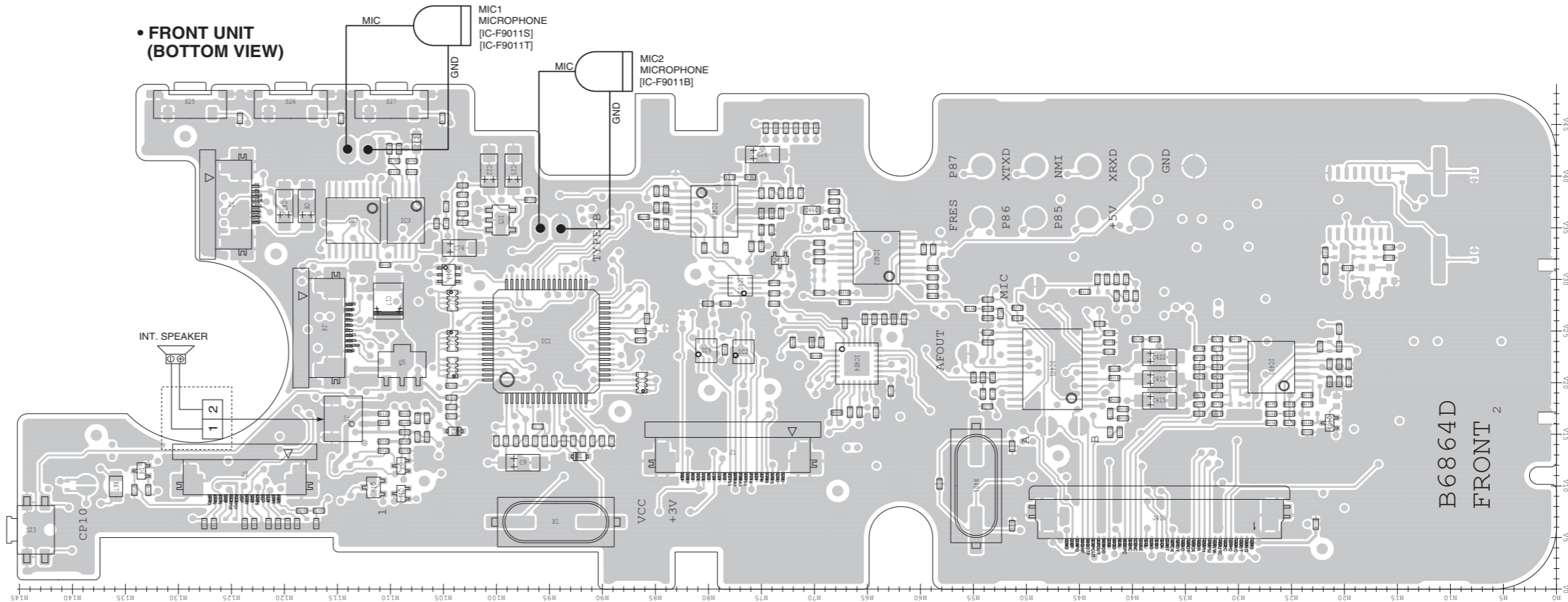
• VR UNIT (BOTTOM VIEW)



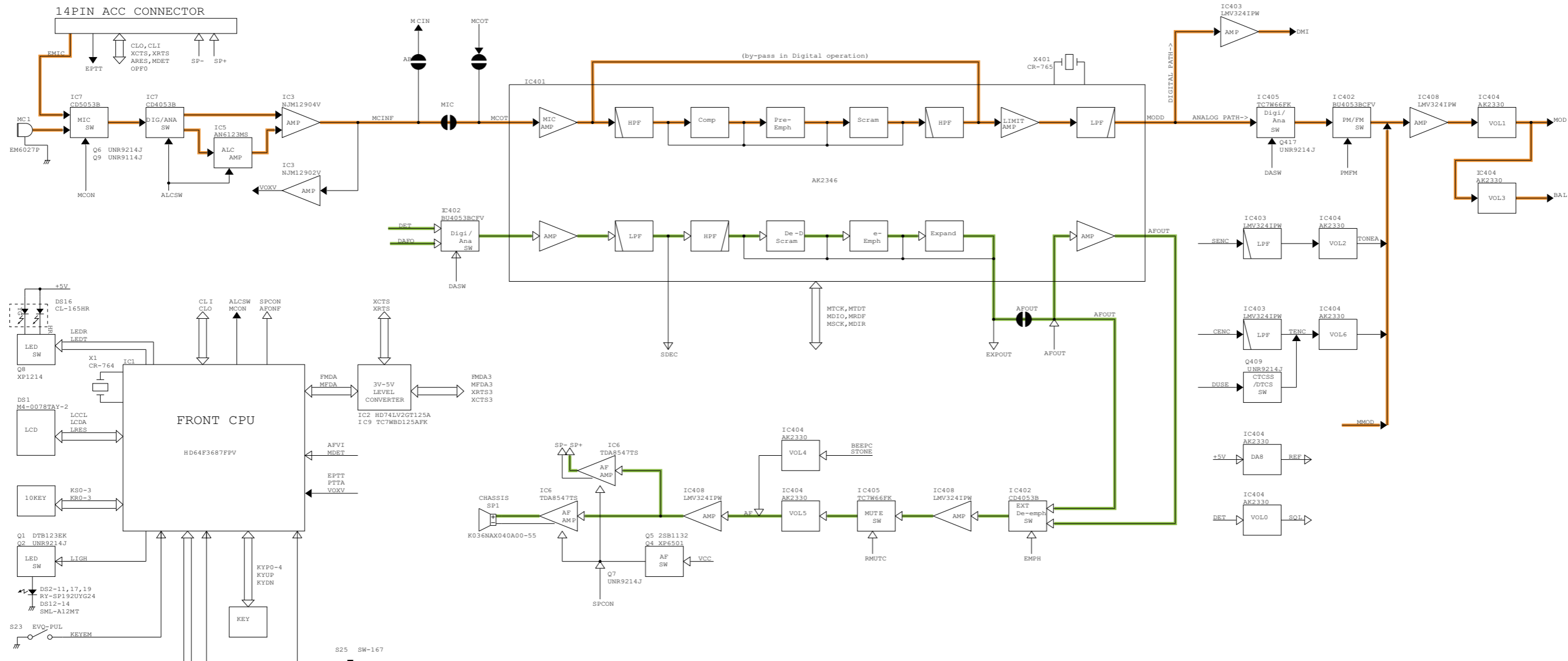
• MAIN UNIT (BOTTOM VIEW)



• FRONT UNIT (BOTTOM VIEW)



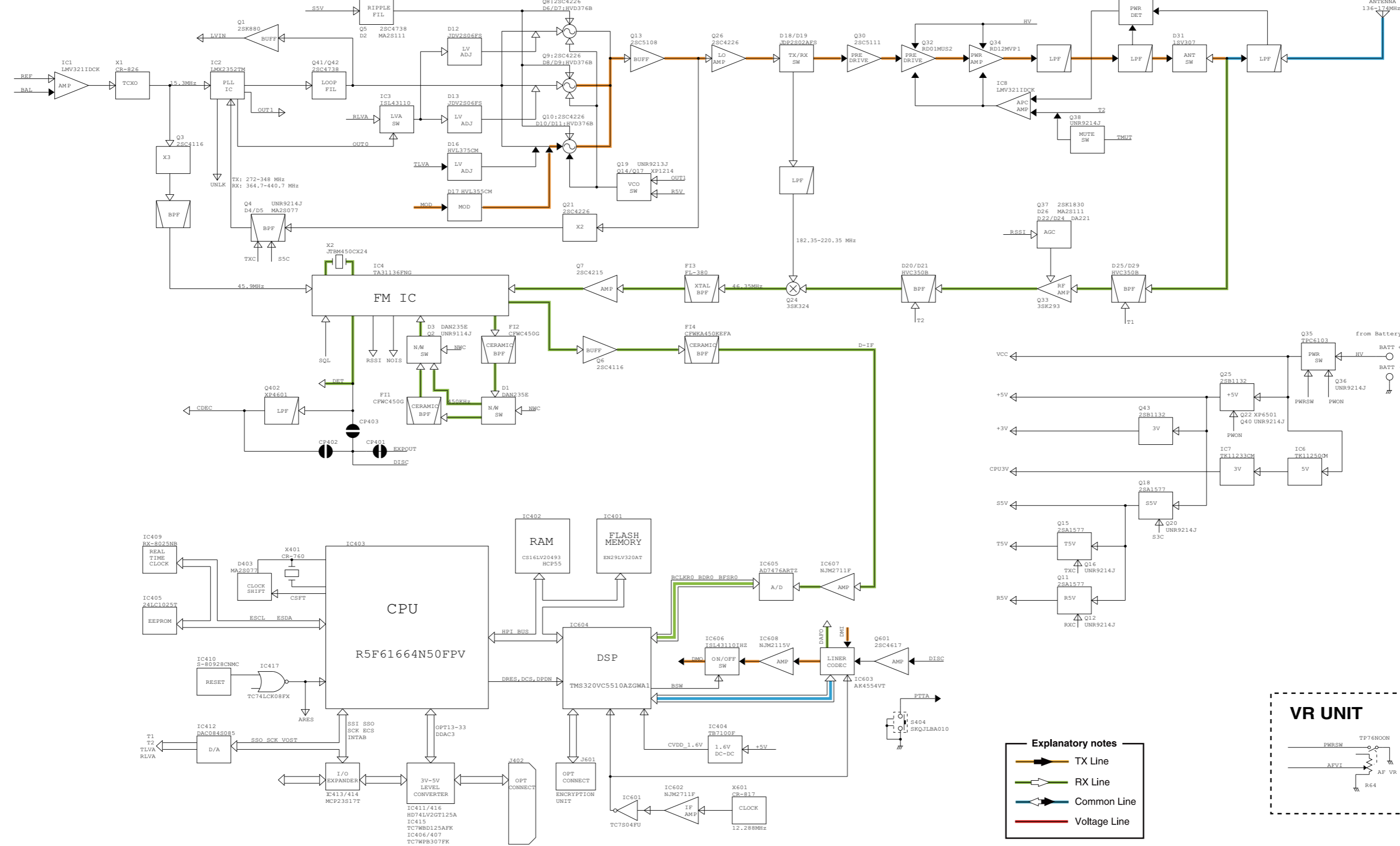
FRONT UNIT



**Explanatory notes**

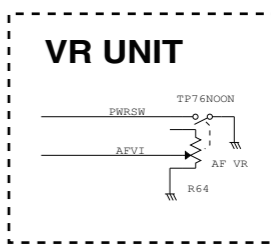
- ▶ TX Line
- ▶ RX Line
- ▶ Common Line
- ▶ Voltage Line

# MAIN UNIT



**Explanatory notes**

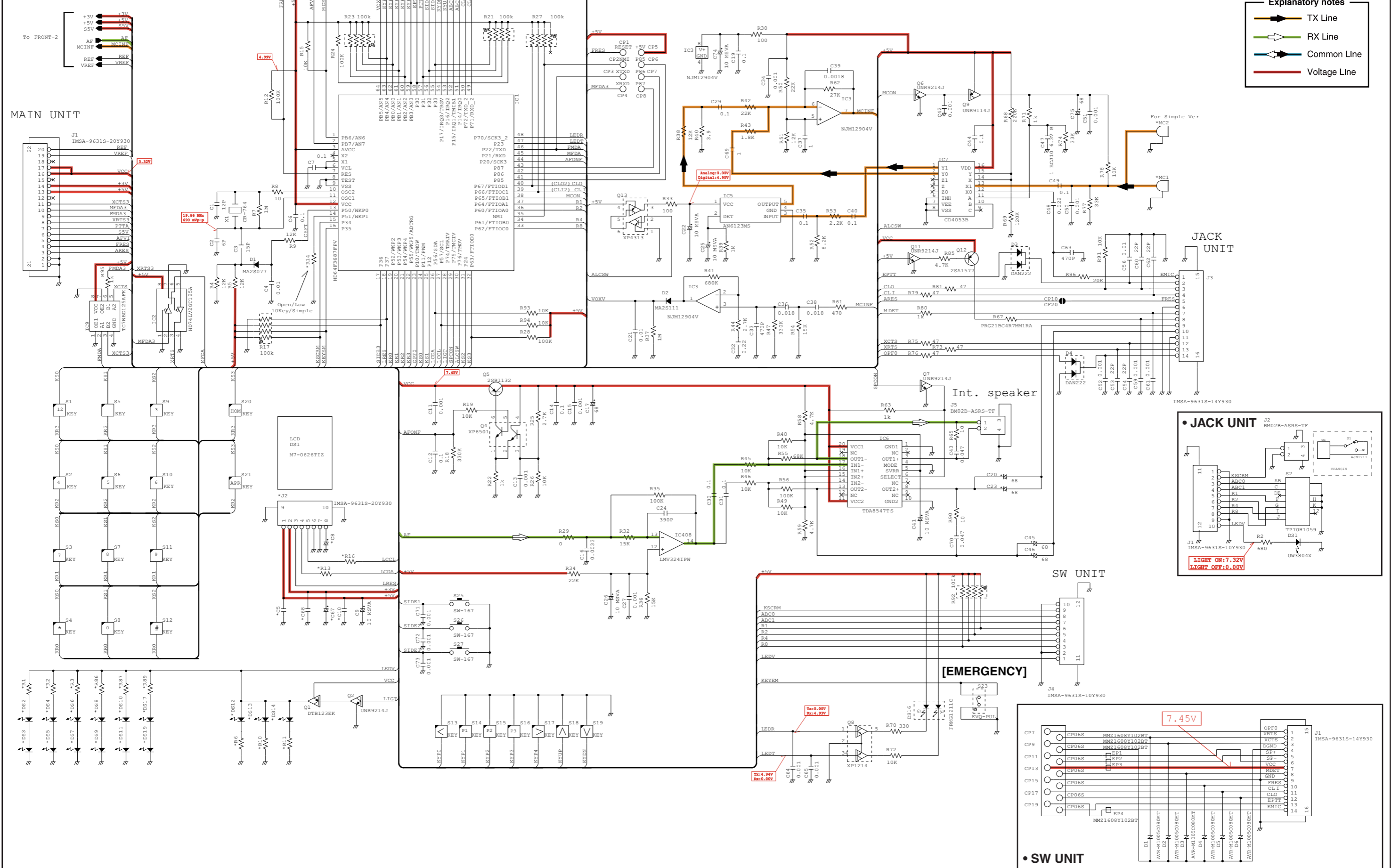
- ▶ TX Line
- ▶ RX Line
- ▶ Common Line
- ▶ Voltage Line



# SECTION 11

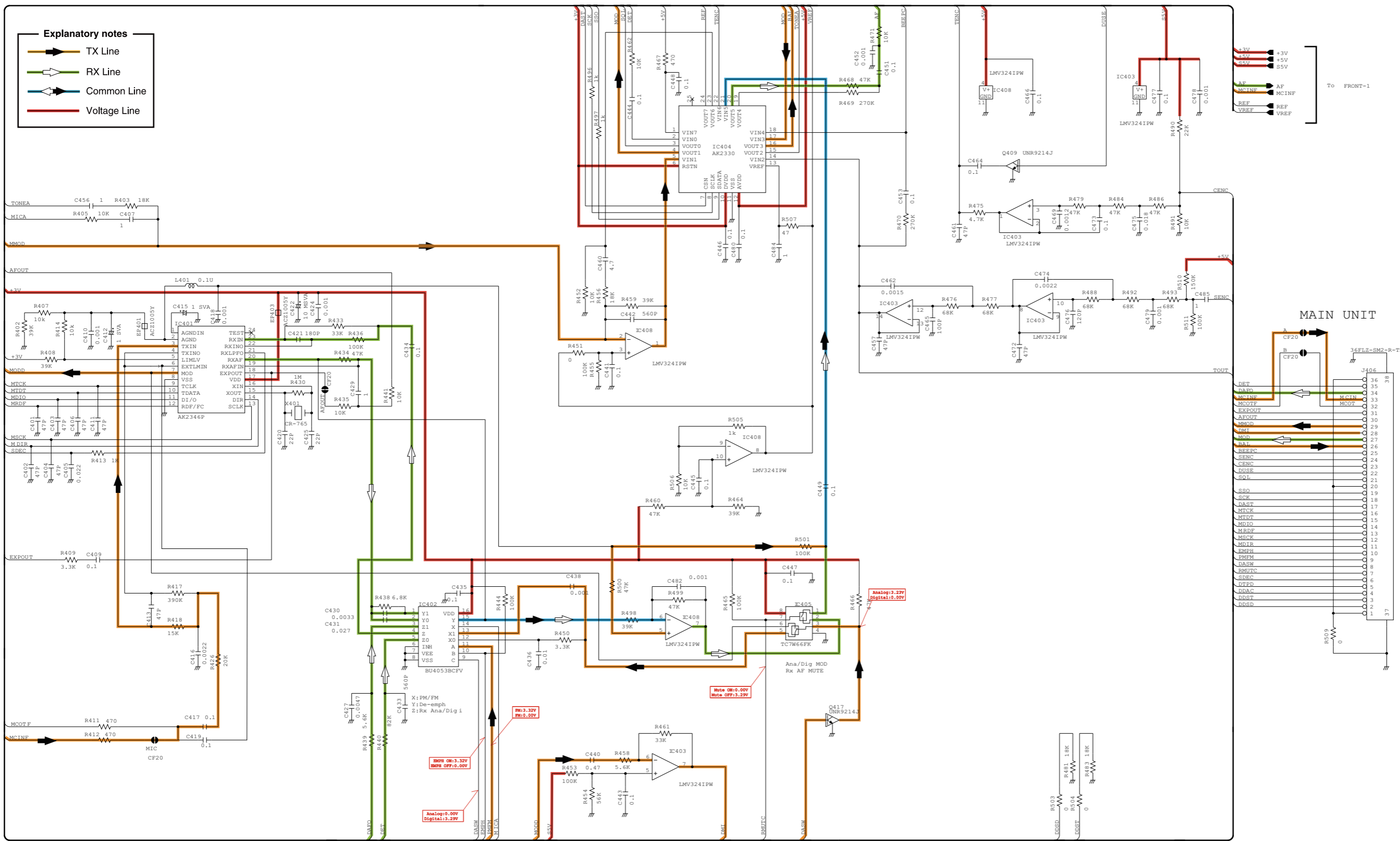
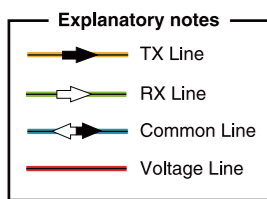
# VOLTAGE DIAGRAM

## • FRONT UNIT (1/2)



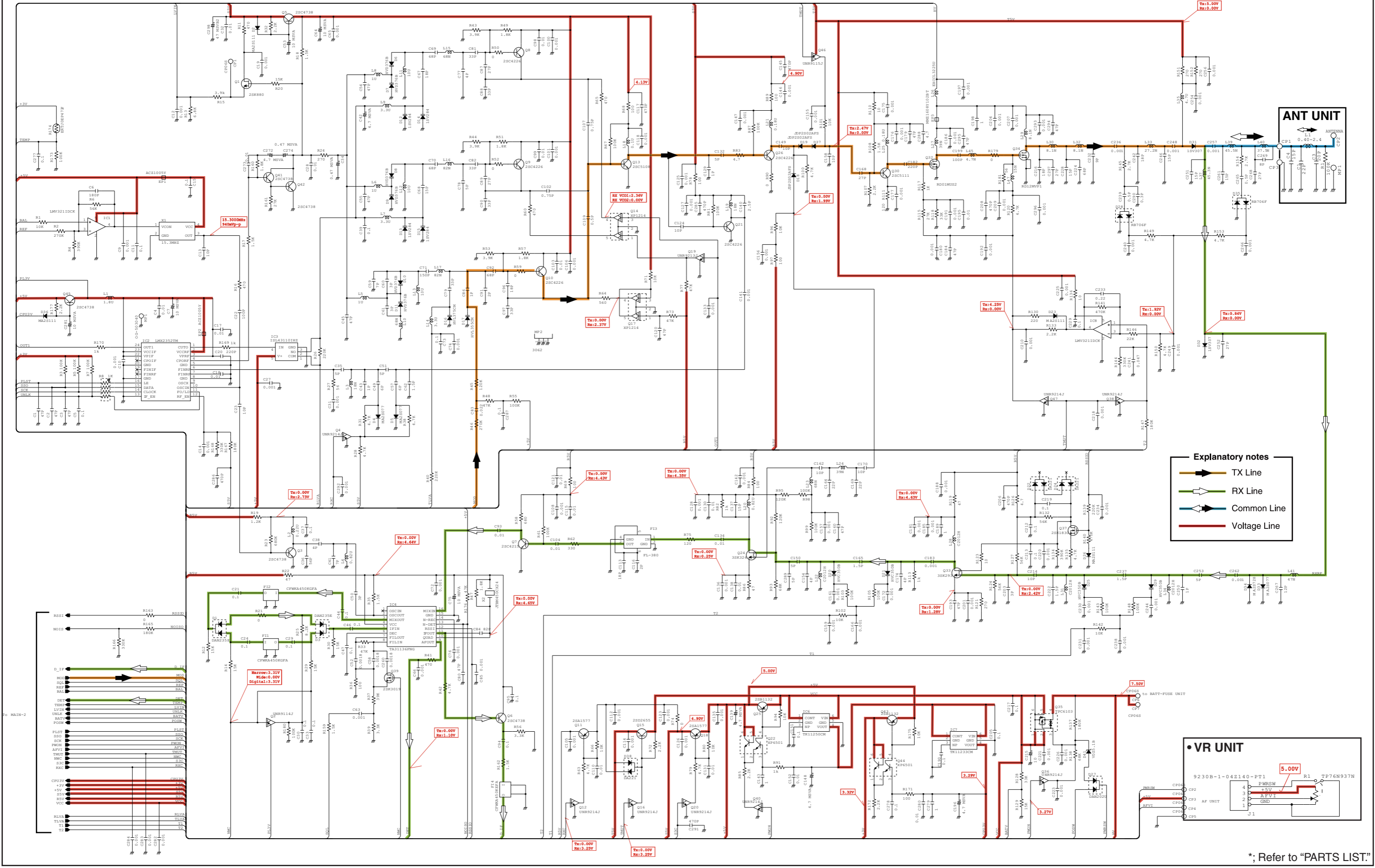
\*; Refer to "PARTS LIST."

• FRONT UNIT (2/2)



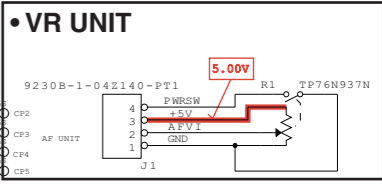
\*; Refer to "PARTS LIST."

• MAIN UNIT (1/3)



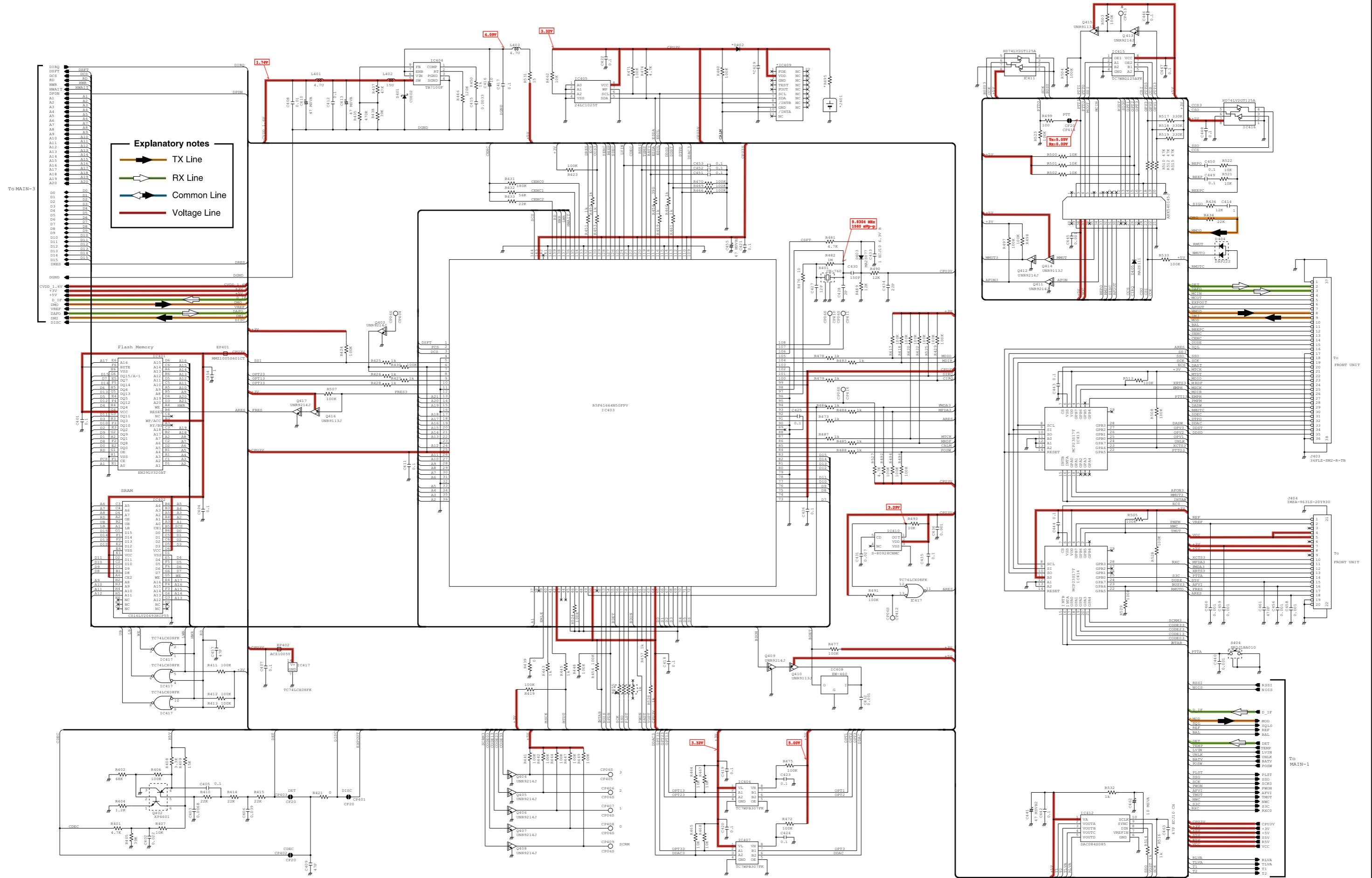
**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line



\*; Refer to "PARTS LIST"

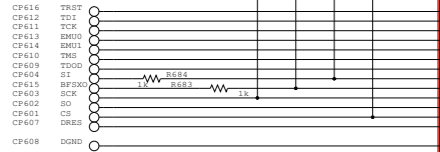
• MAIN UNIT (2/3)



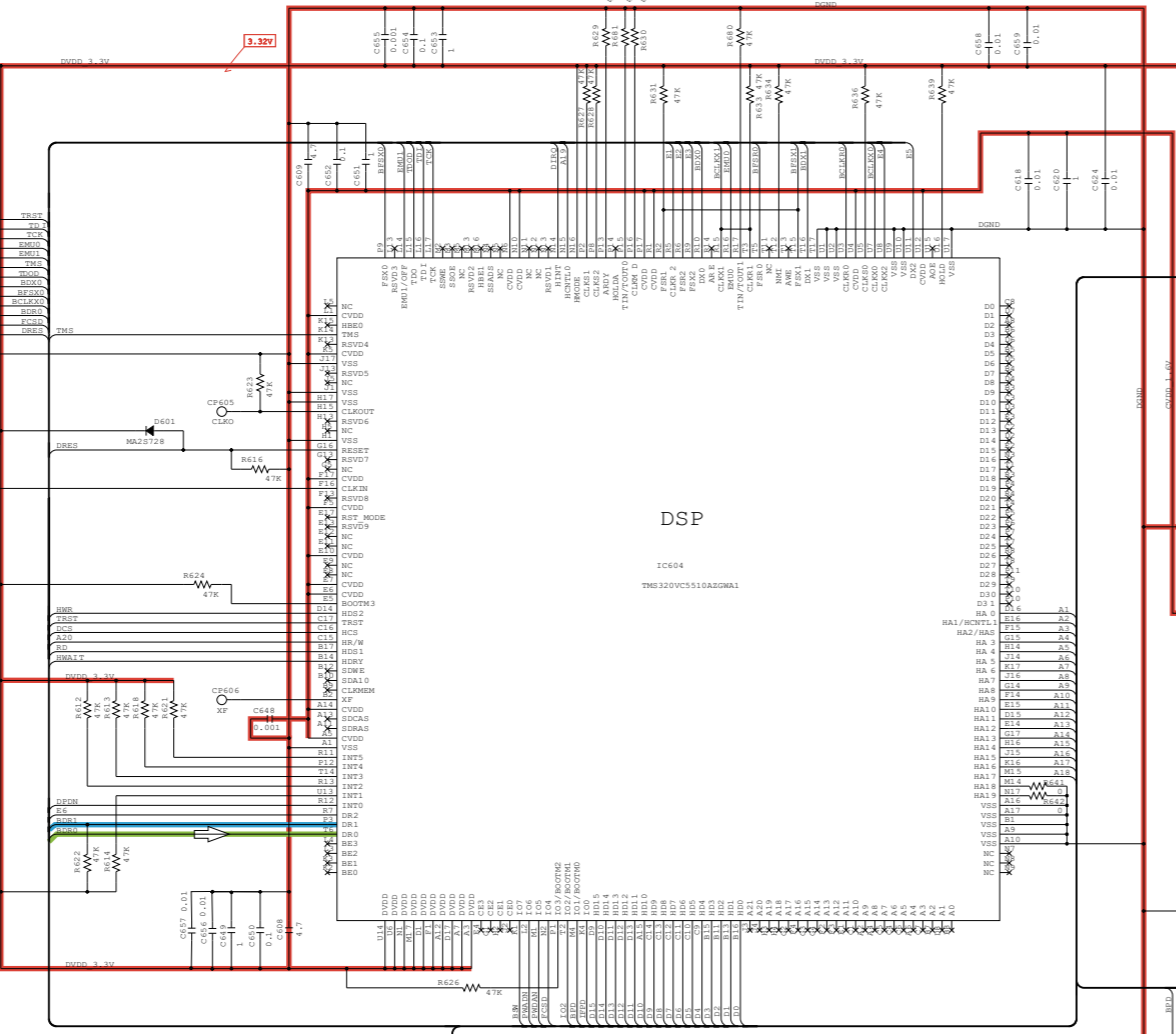
\*; Refer to "PARTS LIST"

• MAIN UNIT (3/3)

DSP FLASH



PCMD: CHIP SELECT of the DSP for the Flash memory.  
TDO0: IEEE Standard 1149.1 test data output.



DSP

IC604  
TMS320VC5510AZDWR1

A/D

IC605  
AD7476ARZ

**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line

CLOCK

IC602  
NLM2711F

LINEAR CODEC

IC603  
AK4154V

\*, Refer to "PARTS LIST."

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