



SERVICE MANUAL

IP ADVANCED RADIO SYSTEM

IP501M

S-15606XZ-C1
September 2019

Icom Inc.

INTRODUCTION

This service manual describes the latest technical information for the IP501M IP ADVANCED RADIO SYSTEM at the time of publication.

MODEL	VERSION	VERSION NUMBER
IP501M	USA-31	#31
	EXP-41	#41
	AUS-51	#51

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

SERVICE CAUTION

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

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

DO NOT reverse the polarity of the DC power cable when directly connecting to the transceiver.

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



ORDERING PARTS

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

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

<ORDER EXAMPLE>

1130018740 RX8130CE IP501M MAIN-A UNIT 5 pieces
8930084370 3405 LENS IP501M CHASSIS-A 1 piece

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** keep power ON for a long time when the transceiver is defective.
4. **READ** the instructions of the test equipment thoroughly before connecting it to the transceiver.

TABLE OF CONTENTS

SECTION 1	SPECIFICATIONS	
SECTION 2	INSIDE VIEWS	
SECTION 3	DISASSEMBLY INSTRUCTIONS	
SECTION 4	OPTIONAL CABLE INSTALLATION	
SECTION 5	VERIFICATION PROCEDURE	
5-1	PREPARATION	5-1
5-2	LTE TRANSCEIVER	5-3
5-3	AUDIO SYSTEM	5-4
5-4	BLUETOOTH UNIT	5-4
5-5	GENERAL	5-5
SECTION 6	PARTS LIST	
SECTION 7	MECHANICAL PARTS	
SECTION 8	BOARD LAYOUTS	
SECTION 9	BLOCK DIAGRAM	
SECTION 10	VOLTAGE DIAGRAM	

SECTION 1

SPECIFICATIONS

VERSION	CORRESPONDING MEASUREMENT STANDARD
USA-31	FCC Part 15 Class B/ICES003, FCC Part 15C, FCC Part 22, FCC Part 24, FCC Part 27, PTCRB
EXP-41	EN 300 328, EN 303 413, EN 301 489, EN 301 908, EN 55024, EN 55032, EN 62311, EN 62368-1, ECE Regulation No. 10
AUS-51	AS/NZS Standard

■ GENERAL

• Power supply voltage:	13.8 V±10% DC, 26.4 V±10% DC
• Current drain:	Less than 1.2 A (Supply voltage 13.8 V DC) Less than 0.8 A (Supply voltage 26.4 V DC)
• Operable environment:	Temperature -10°C~+60°C (-14°F~140°F) Humidity 25~85% (Without condensation)
• Dimensions (projections not included):	125 (W)×156 (H)×29 (D) mm, 4.9 (W)×6.1 (H)×1.1 (D) inches
• Weight (approximate):	840 g, 1.9 lb (Without microphone)
• LAN interface:	[LAN] port (RJ-45 type) ×1 (Auto MDI/MDI-X) IEEE802.3/10BASE-T, IEEE802.3u/100BASE-TX
• User interface:	Function display, LED indicator (TX/RX, MSG)
• External speaker jack	3.5 mm (1/8 in) (d) 4 Ω impedance monaural
• External device connector:	[EXT I/O] port (For optional OPC-2407 D-sub 25 pin cable)
• Antenna:	LTE antenna ×2 (RPSMA), GPS antenna ×1 (SMA)
• IP rate:	IP54 (Only when the microphone is attached)

■ VOICE COMMUNICATION

• Codec:	G.726
• Frequency range:	300~3400 Hz
• Audio output power:	More than 4 W (External speaker 4 Ω 10% distortion)
• Output impedance:	External speaker 4 Ω
• Input (microphone) impedance:	600 Ω

■ 3G (W-CDMA)

• Frequency band:	[USA-31] B2, B5
	[EXP-41] B1, B8
	[AUS-51] B1, B5

■ 4G (LTE)

• Frequency band:	[USA-31] B2, B4, B12
	[EXP-41] B1, B3, B7, B8, B20
	[AUS-51] B1, B3, B5, B7, B8, B28

■ GNSS

• GPS:	1575.42 MHz±1.023 MHz
• GLONASS:	1597.5~1605.8 MHz

■ Bluetooth

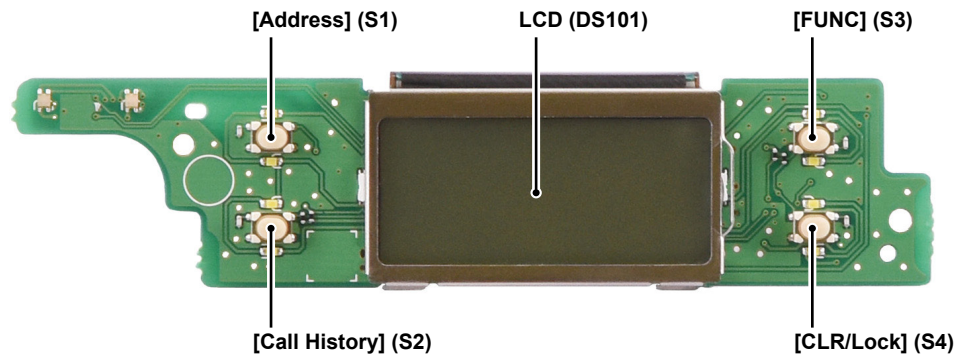
• Frequency range:	2402~2480 MHz
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All stated specifications are subject to change without notice or obligation.

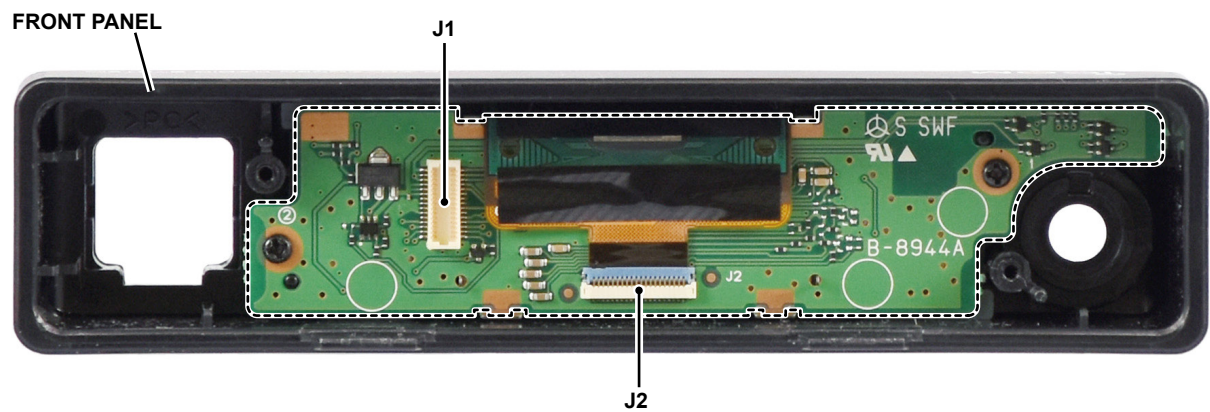
SECTION 2

INSIDE VIEWS

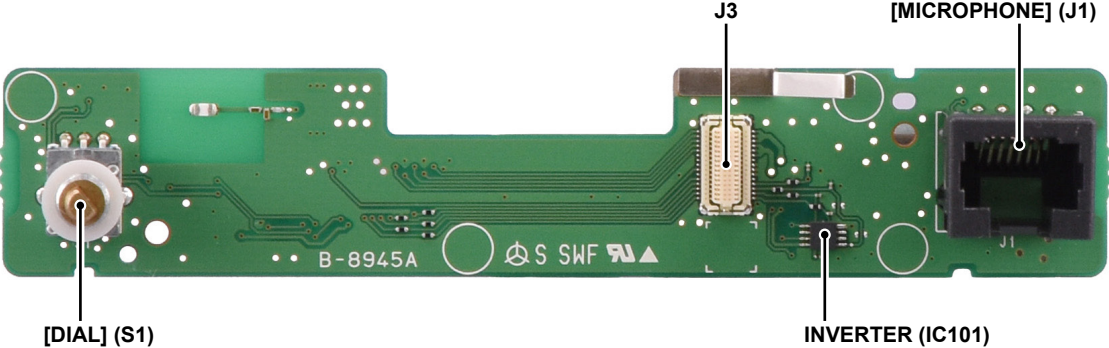
• FRONT-C UNIT (TOP VIEW)



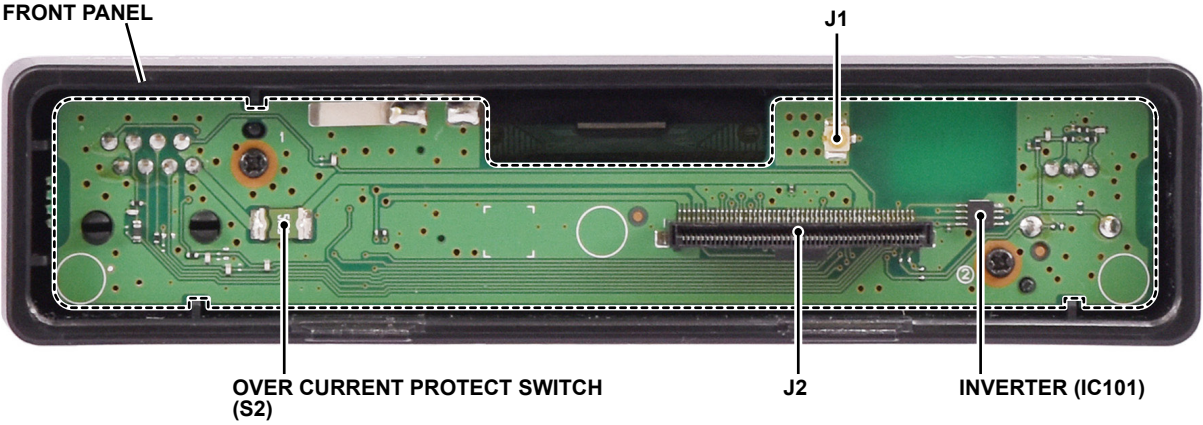
• FRONT-C UNIT (BOTTOM VIEW)



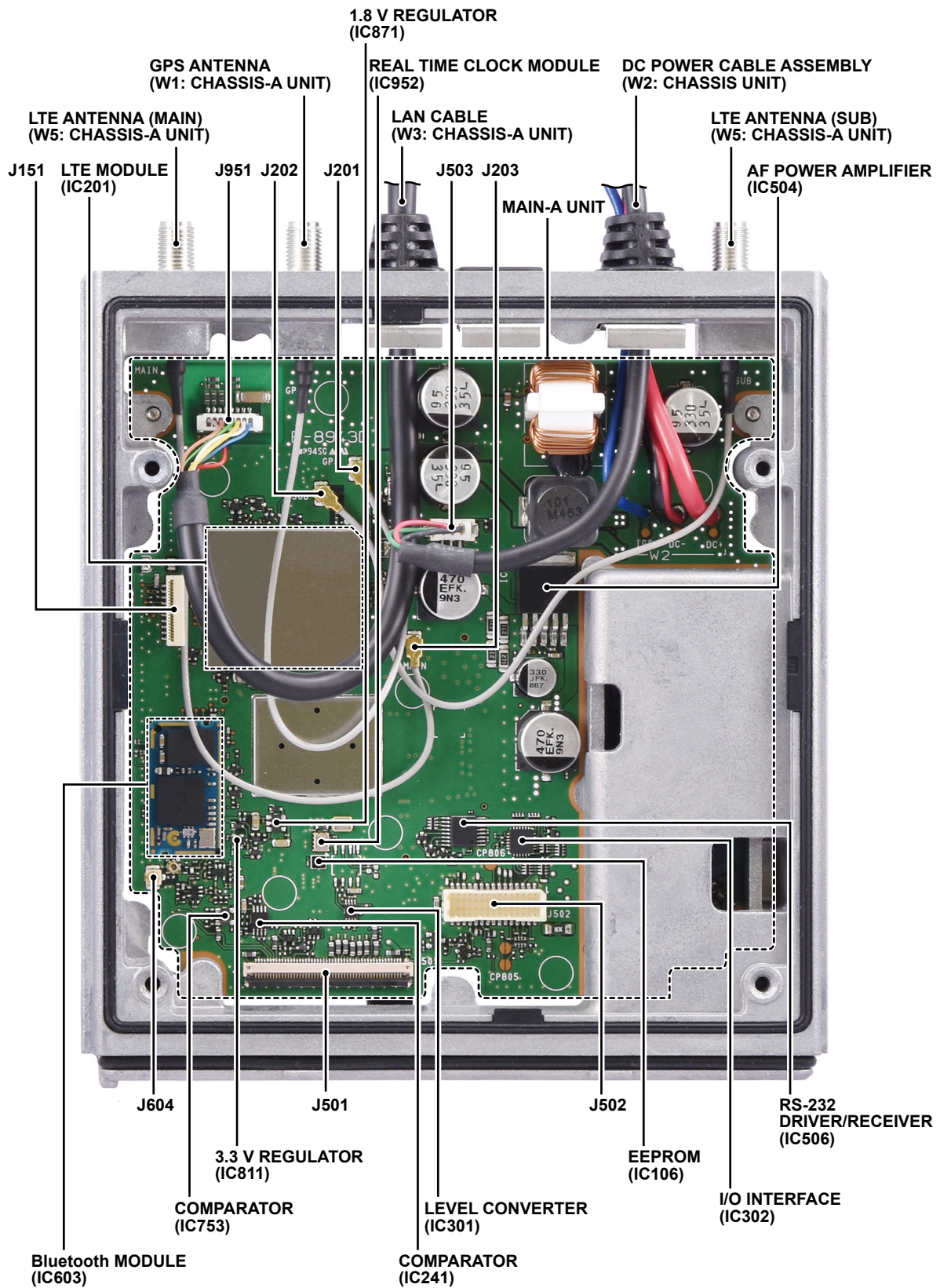
• FRONT-D UNIT (TOP VIEW)



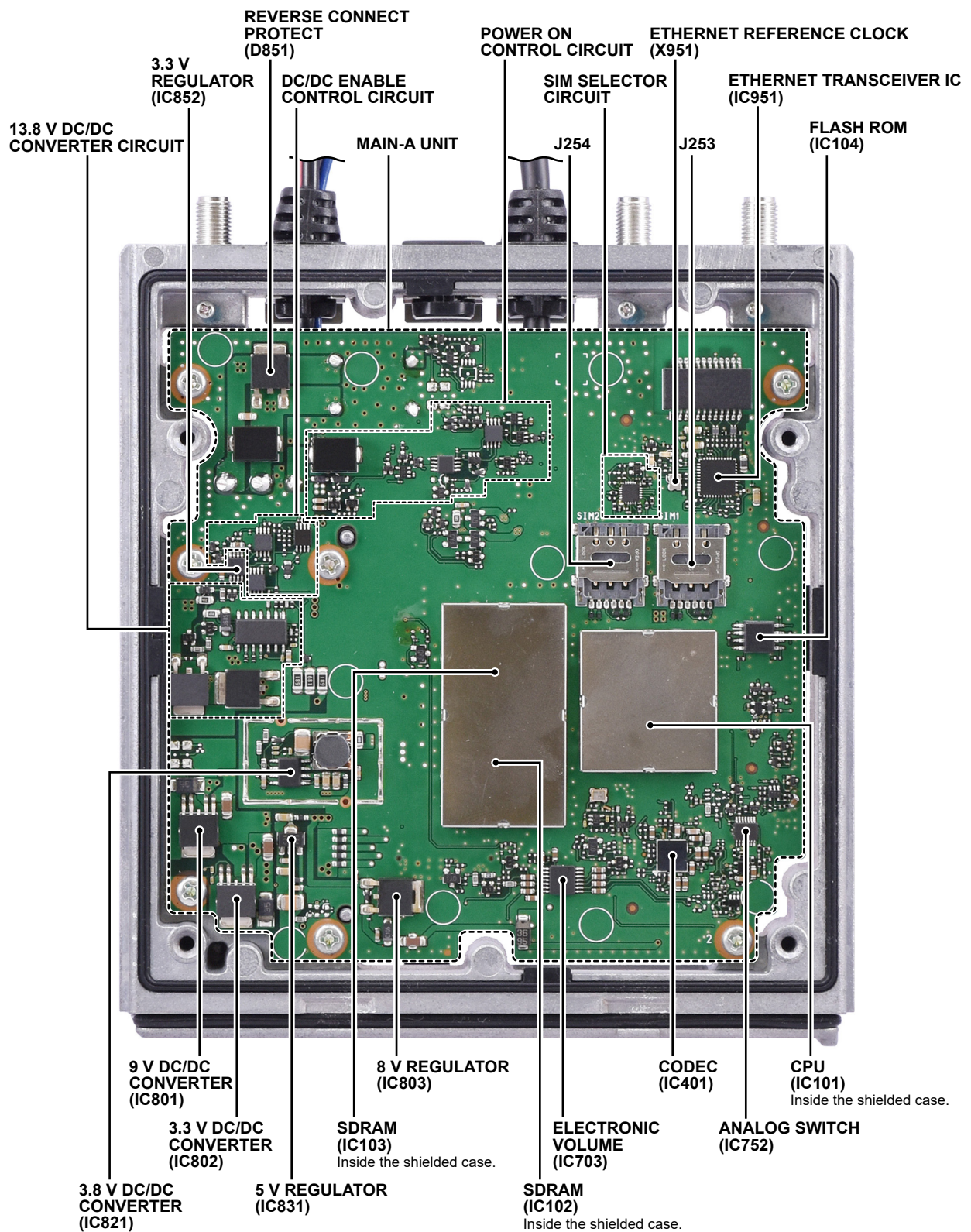
• FRONT-D UNIT (BOTTOM VIEW)



• MAIN-A UNIT (TOP VIEW)



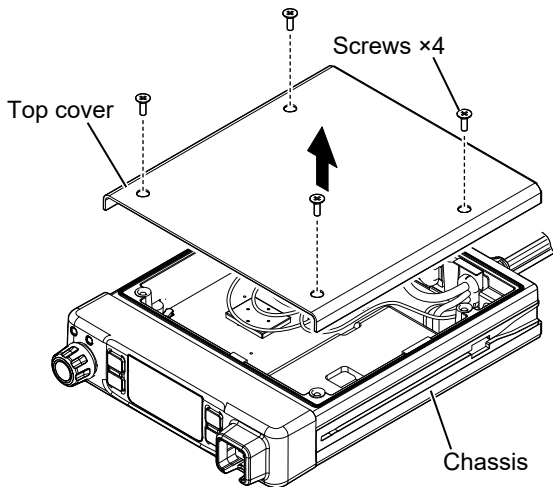
• MAIN-A UNIT (BOTTOM VIEW)



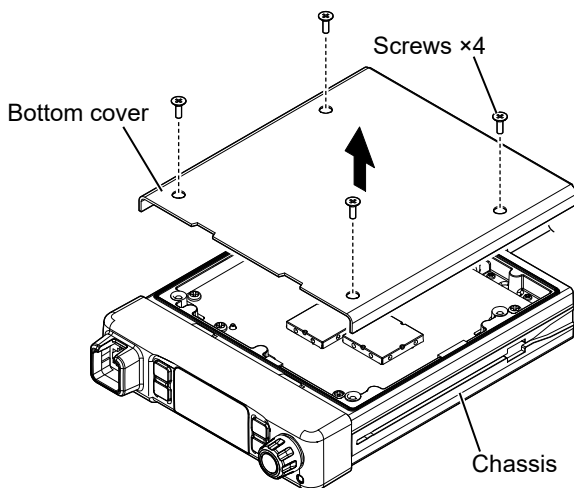
SECTION 3 DISASSEMBLY INSTRUCTIONS

1. REMOVING THE FRONT PANEL

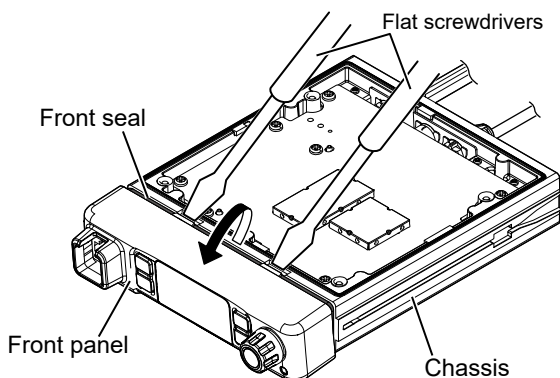
- 1) Remove the 4 screws, and then the top cover from the chassis.



- 2) Remove the 4 screws, and then the bottom cover from the chassis.



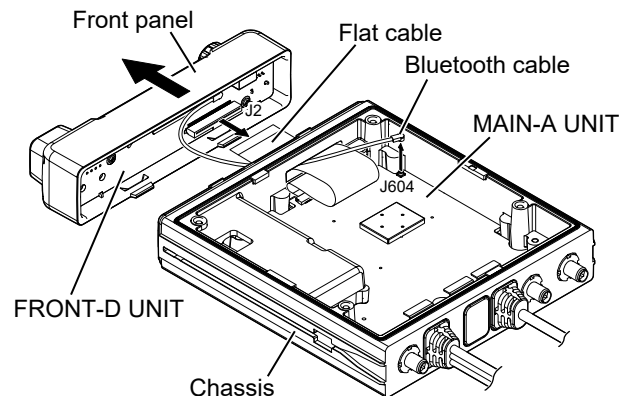
- 3) Lift both tabs using flat screwdrivers and pull forward on the front panel as shown in the illustration below.



WARNING: NEVER use your fingernail to lift the tabs. Otherwise, you may cause injury.

BE CAREFUL: The front seal is attached between the front panel and the chassis. If the front seal is damaged, replace it to a new one to maintain the dustproof/waterproof performance.

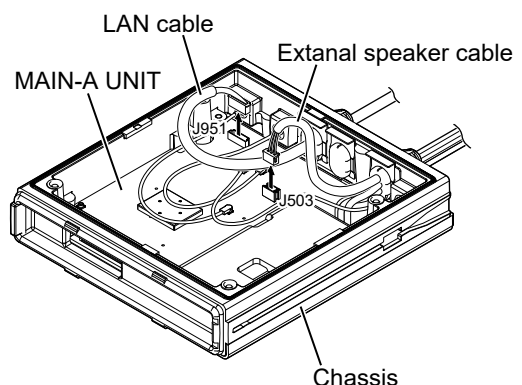
- 4) Disconnect the Bluetooth cable from the MAIN-A UNIT, and the flat cable from the FRONT-D UNIT, and then remove the front panel from the chassis.



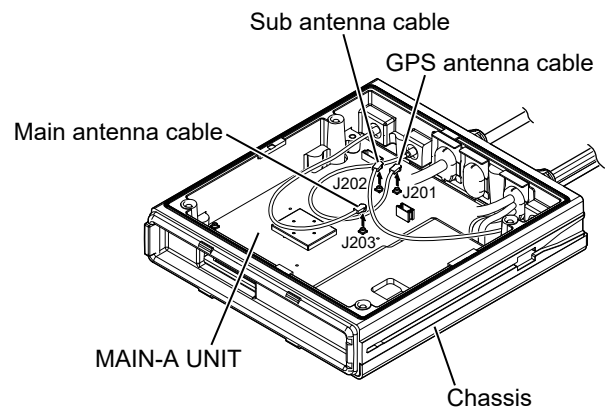
BE CAREFUL when you disconnect the Bluetooth cable from the MAIN-A UNIT, and the flat cable from the FRONT-D UNIT. To keep from damaging them.

2. REMOVING THE MAIN-A UNIT

- 1) Disconnect the LAN and external speaker cables from the MAIN-A UNIT.

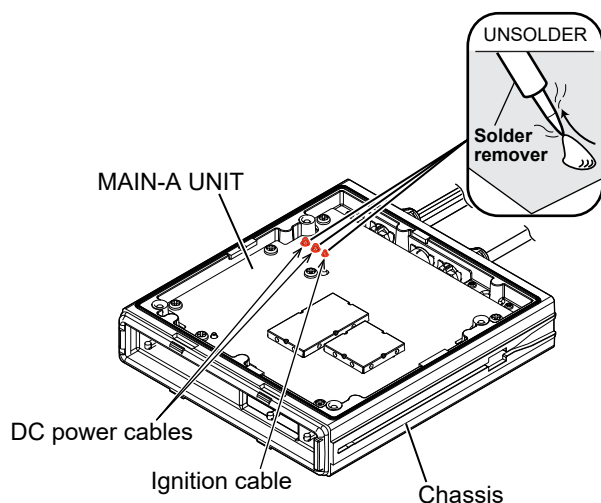


- 2) Disconnect the main antenna, sub antenna, and GPS antenna cables from the MAIN-A UNIT.

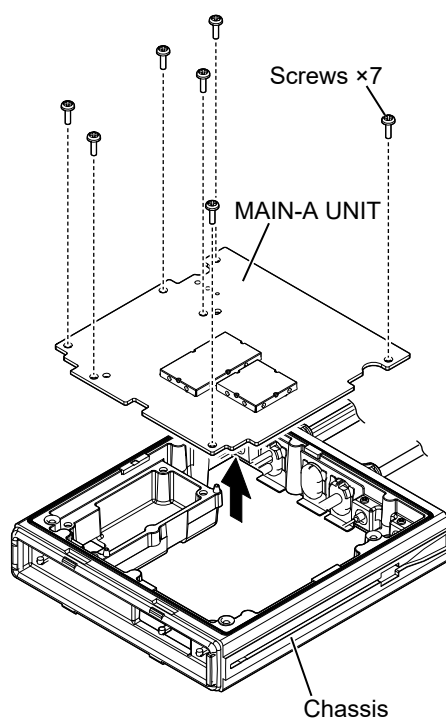


2. REMOVING THE MAIN-A UNIT (CONTINUED)

- 3) Unsolder the 2 points of the DC power cables, and a point of the ignition cable.

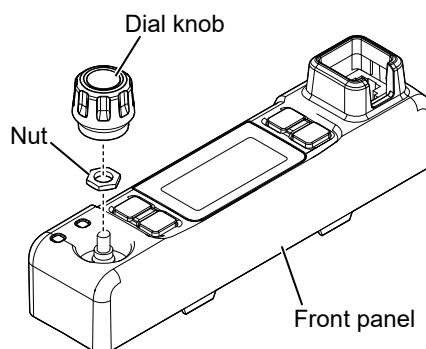


- 4) Remove the 7 screws, and then remove the MAIN-A UNIT from the chassis.

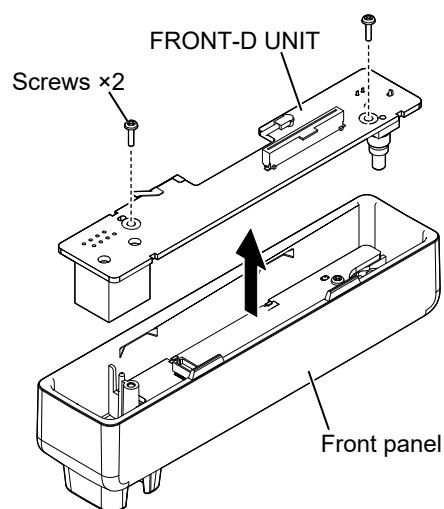


3. REMOVING THE FRONT-D UNIT

- 1) Remove the dial knob and nut from the front panel.

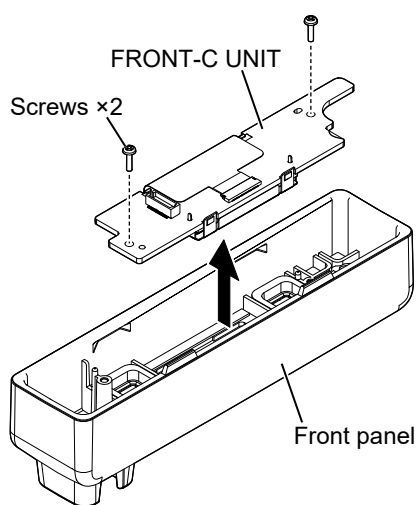


- 2) Remove the 2 screws, and then remove the FRONT-D UNIT from the front panel.



4. REMOVING THE FRONT-C UNIT

- Remove the 2 screws, and then remove the FRONT-C UNIT from the front panel.



SECTION 4 OPTIONAL CABLE INSTALLATION

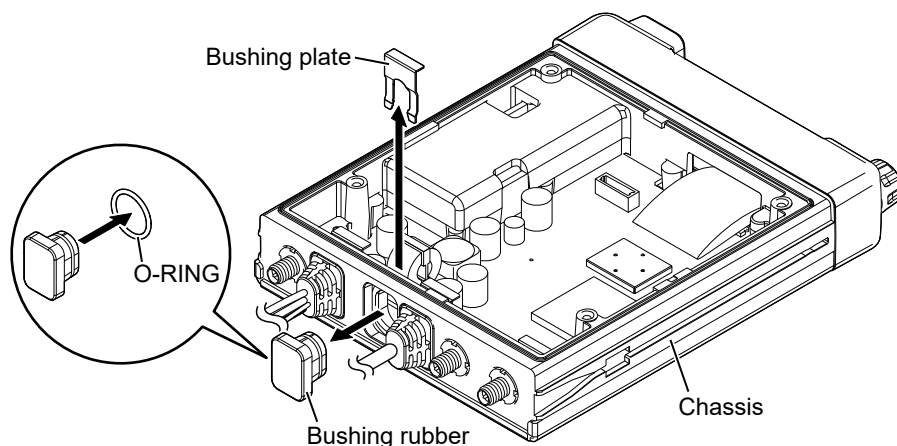
CAUTION! Optional cable must be installed at only the authorized Icom service centers.

The performance capability of the transceiver cannot be guaranteed if the user installs a cable themselves, or has it done at a non-authorized dealer/service center.

NOTE: Be sure to keep the equipment in a secure place to avoid inadvertent use by unauthorized persons.

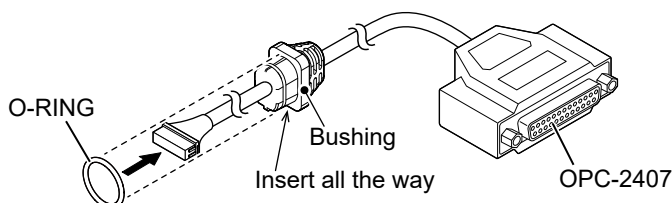
■ INSTALLING THE OPC-2407

1. Turn OFF the transceiver and disconnect the DC power cable.
2. Eliminate all static electricity from your body before touching the unit.
3. Remove the top cover following the DISASSEMBLY INSTRUCTIONS in SECTION 3.
4. Remove the bushing plate, and then the bushing rubber from the chassis.
5. Remove the O-RING from the bushing rubber.

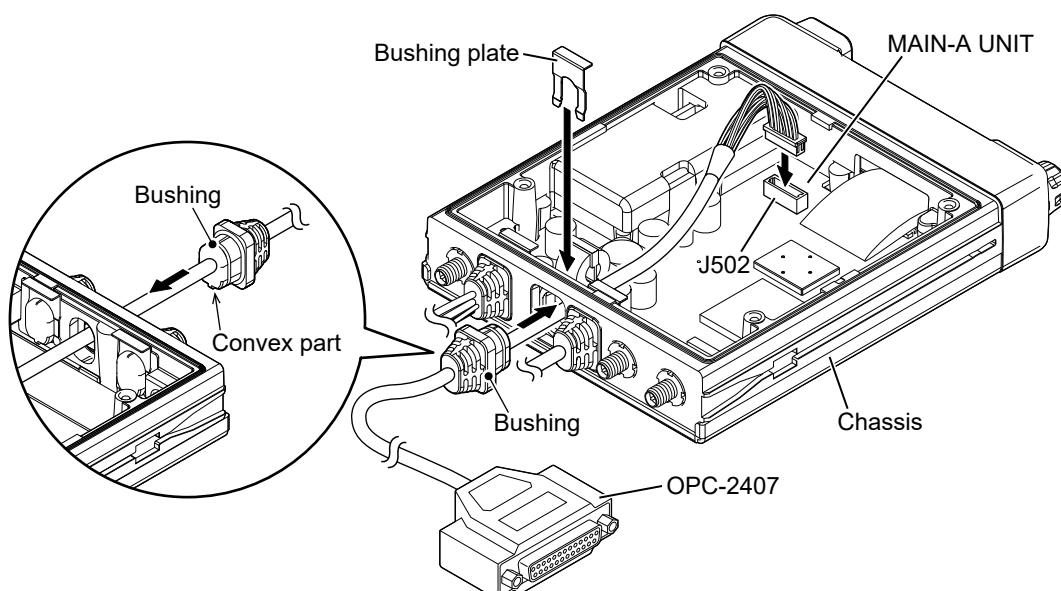


6. Attach the O-RING to the bushing of the OPC-2407.

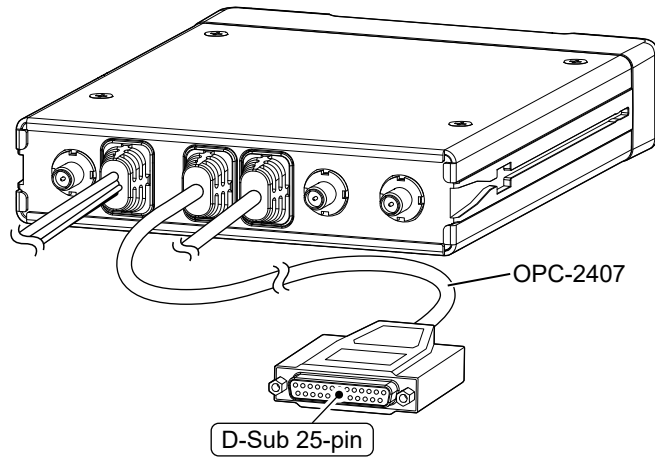
NOTE: If the O-RING is damaged, replace it to a new one to maintain the dustproof/waterproof performance.



7. Insert the OPC-2407 from the rear of the chassis.
8. Attach the bushing to the chassis, paying attention to the direction of the convex part of the bushing.
If the direction of the convex part of the bushing is reversed, the dustproof/waterproof performance cannot be maintained.
9. Attach the bushing plate to fix the cable.
10. Attach the connector of OPC 2407 to J502 on the MAIN-A UNIT.



■ D-SUB 25-PIN (OPC-2407) INTERFACE INFORMATION



D-Sub 25-pin	Pin number	Pin name	Description	Specification
13.....1 ○○○○○○○○○○○○○ ○○○○○○○○○○○○○ 25.....14 Pin position	1	NC	No connection	—
	2	TXD	Serial communication output. (RS-232)	
	3	RXD	Serial communication input. (RS-232)	
	4	RTS	Serial Request-To-Send (RTS) signal input. (RS-232)	
	5	CTS	Serial Clear-To-Send (CTS) signal output. (RS-232)	
	6	NC	No connection	
	7	GND	Ground terminal for transceiver.	
	8	EXMOD	External microphone audio input port.	
	9	DISC	Detected audio output port. (analog)	
	10	Ext. O 10	Customizable output* by transceiver programming.	Active is fixed at the low level.
	11	VCC	The DC power supply voltage output terminal through the main power switch circuit.	Output level: 13.8 V
	12	NC	No connection	—
	13			
	14	AGND	Ground terminal for transceiver's analog signal.	
	15	Ext. I/O 15	Customizable I/O** by transceiver programming.	Active can be set to the high or low levels.
	16	NC	No connection	—
	17	Ext. I/O 17	Customizable I/O** by transceiver programming.	Active can be set to the high or low levels.
	18	Ext. I/O 18		
	19	Ext. I/O 19		
	20	NC	No connection	—
	21	Ext. I/O 21	Customizable I/O** by transceiver programming.	Active can be set to the high or low levels.
	22	AFO	Audio (AF preamplifier) output related to the volume setting.	—
	23	Ext. I/O 23	Customizable I/O** by transceiver programming.	Active can be set to the high or low levels.
	24	Ext. I 24	Customizable input† by transceiver programming.	Active is fixed at the high level.
	25	Ext. I/O 25	Customizable I/O** by transceiver programming.	Active can be set to the high or low levels.

* Customize output: [Busy], [Audible], [Mic Mute], [Hanger], [PTT], [TX], [Horn], [P1 Monitor], [P2 Monitor], [P3 Monitor], [AUX1], [AUX2], [AUX3], [AUX4], and [ID List Select Mode]

† Customize input: [ID List Select 1], [ID List Select 2], [ID List Select 3], [ID List Select 4], [EPTT], [Mic Mute], [Dimmer], and [Ext. Key]

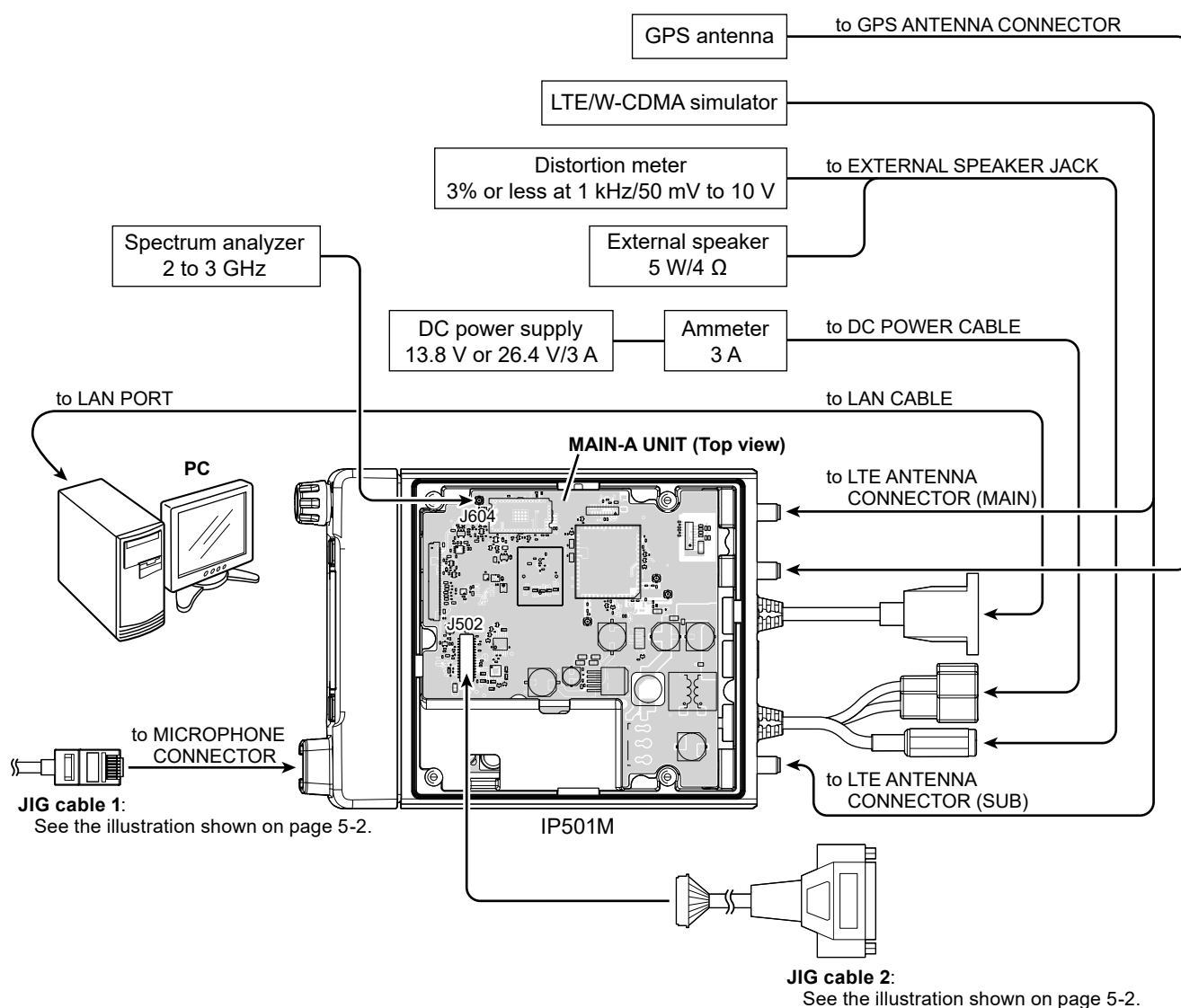
SECTION 5 VERIFICATION PROCEDURE

5-1 PREPARATION

■ REQUIRED EQUIPMENT

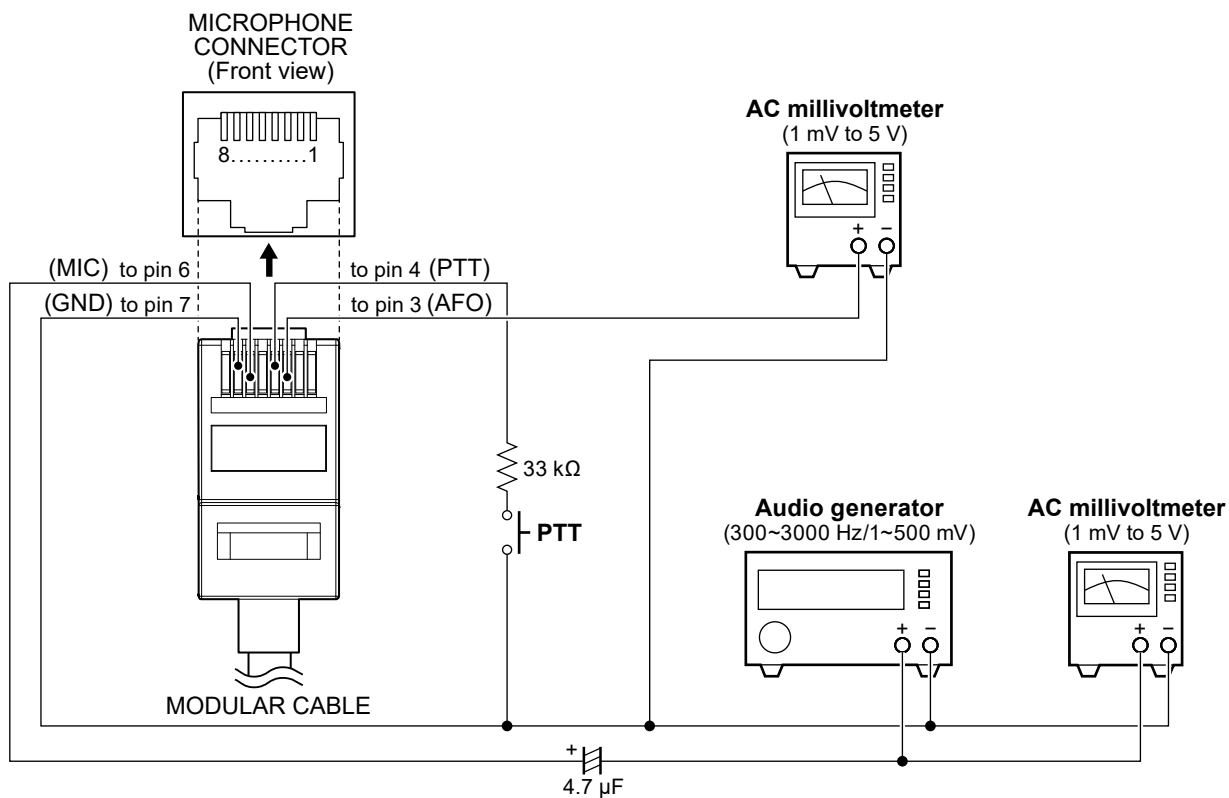
EQUIPMENT	GRADE AND RANGE	EQUIPMENT	GRADE AND RANGE
DC power supply	Output voltage: 13.8 V or 26.4 V Current capacity: 3 A or more	Audio generator (AG)	Frequency range: 300~3000 Hz Output level: 1~500 mV
Ammeter	Measuring range: 0 to 3 A	AC millivoltmeter	Measuring range: 1 mV to 5 V
LTE/W-CDMA simulator	—	Distortion meter	Measuring accuracy: 3% or less at 1 kHz Input level: 50 mV to 10 V
Spectrum analyzer	Measuring range: 2 to 3 GHz	External speaker	Input impedance: 4 Ω Capacity: More than 5 W
GPS antenna	—		

■ CONNECTIONS

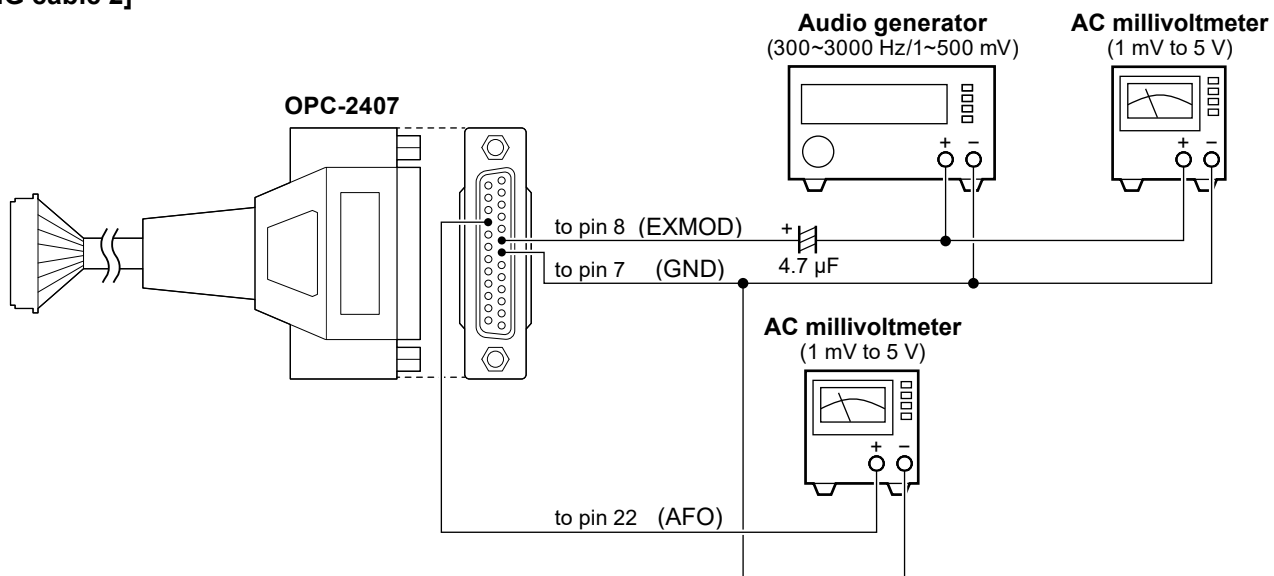


■ JIG

[JIG cable 1]



[JIG cable 2]



5-2 LTE TRANSCEIVER

PREPARATION		• Connect the LTE simulator to both main and sub antenna connectors.		
VERIFICATION POINTS		[USA-31]: 4G band B2 (1.9 GHz band: B2 DL 1960 MHz) B4 (2.1 GHz band: B4 DL 2132.5 MHz) B12 (700 MHz band: B12 DL 737.5 MHz) 3G band B2 (1.9 GHz band: B2 DL 1960 MHz) B5 (850 MHz band: B5 DL 880 MHz) [EXP-41]: 4G band B1 (2.1 GHz band: B1 DL 2140 MHz) B3 (1.8 GHz band: B3 DL 1842.5 MHz) B7 (2.6 GHz band: B7 DL 2655 MHz) B8 (900 MHz band: B8 DL 942.5 MHz) B20 (800 MHz band: B20 DL 806 MHz) 3G band B1 (2.1 GHz band: B1 DL 2140 MHz) B8 (900 MHz band: B8 DL 942.6 MHz) [AUS-51]: 4G band B1 (2.1 GHz band: B1 DL 2140 MHz) B3 (1.8 GHz band: B3 DL 1842.5 MHz) B5 (800 MHz band: B5 DL 881.5 MHz) B7 (2.6 GHz band: B7 DL 2655 MHz) B8 (900 MHz band: B8 DL 942.5 MHz) B28 (700 MHz band: B28 DL 780.5 MHz) 3G band B1 (2.1 GHz band: B1 DL 2140 MHz) B5 (850 MHz band: B5 DL 880 MHz)		
VERIFICATION ITEM		SETUP	OPERATION	VALUE
TRANSMIT OUTPUT POWER	1	• Transmitting	• Verify at the all verification points.	20.30~25.70 dBm
FREQUENCY STABILITY	1	• Transmitting		±0.1 ppm
OCCUPIED FREQUENCY BANDWIDTH	1	• Transmitting (BW: 5 MHz, QPSK)		Less than 5 MHz
RECEIVE SENSITIVITY	1	• Set the LTE simulator to: Modulation: QPSK Bandwidth: 5 MHz Level: Set to the level so that the diversity reception. • Receiving		[4G band]: Less than -97 dBm [3G band]: Less than -100 dBm

5-3 AUDIO SYSTEM

VERIFICATION ITEM	SETUP	OPERATION	VALUE
MICROPHONE INPUT LEVEL ~Microphone connector~	1 • Connect the distortion meter and external speaker to the external speaker jack. • Connect the audio generator and the AC millivoltmeter through the JIG cable 1 to the microphone connector, and set it to: Frequency: 1 kHz (Sine wave) • Set the audio volume level to 21. • Transmitting	• Adjust the audio generator's output level so that the distortion meter shows 600 mV rms (± 50 mV rms). • Verify the audio generator's output level.	6.4~12.8 mV rms
~D-sub connector~	2 • Turn off the output of the audio generator connected to JIG cable 1. • Connect the audio generator and the AC millivoltmeter through the JIG cable 2 to J502 on the MAIN-A unit, and set it to: Frequency: 1 kHz (Sine wave) • Transmitting	• Adjust the audio generator's output level so that the distortion meter shows 600 mV rms (± 50 mV rms). • Verify the audio generator's output level.	212.3~423.7 mV rms
AUDIO OUTPUT LEVEL (at 10% distortion) ~Microphone connector~	1 • Turn off the output of the audio generator connected to JIG cable 2. • Turn on the output of the audio generator connected to JIG cable 1, and set it to: Frequency: 1 kHz (Sine wave) • Set the audio volume level to 32. • Transmitting	• Adjust the audio generator's output level so that the distortion meter shows 10%. • Verify the audio output level.	More than 4 V rms
	2 • Connect the AC millivoltmeter through the JIG cable 1 to the AFO terminal of the microphone connector. • Transmitting	• Verify the audio output level at the AFO terminal of the JIG cable 1.	200~300 mV rms
~D-sub connector~	3 • Turn off the output of the audio generator connected to JIG cable 1. • Turn on the output of the audio generator connected to JIG cable 2. • Connect the AC millivoltmeter through the JIG cable 2 to the AFO terminal of J502 on the MAIN-A unit • Transmitting	• Verify the audio output level at the AFO terminal of the JIG cable 2.	
RESIDUAL NOISE	1 • Turn off the output of the audio generator connected to JIG cable 2. • Set the audio volume level to 1. • Transmitting	• Verify the audio output (residual noise) level.	Less than 5 mV rms

5-4 BLUETOOTH UNIT

VERIFICATION ITEM	SETUP	OPERATION	VALUE
TRANSMIT OUTPUT POWER	1 • Enter to the Bluetooth check mode. • Connect the spectrum analyzer to J604 on the MAIN-A unit. • Transmitting	• Verify the Bluetooth output power.	RF signal is output
AF ROUTE	1 • Connect the AC millivoltmeter through the JIG cable 1 to AFO terminal of the microphone connector. • Enter the Bluetooth loop back mode. • Set the audio volume level to 32. • Transmitting	• Verify the audio output level at the AFO terminal of the JIG cable 1.	40~90 mV rms

5-5 GENERAL

VERIFICATION ITEM		SETUP	OPERATION	VALUE
LAN PORT	1	• Connect the LAN connector of transceiver to PC with a LAN cable.	• Send a ping command.	A ping command response from the transceiver
SIM CARD	1	• Insert a SIM card to the SIM card slot of the transceiver.	• Verify that the transceiver recognizes the SIM card.	—
GPS RECEIVER	1	• Connect the GPS antenna to the transceiver.	• Verify that the signal from GPS satellites are received.	—
USER INTERFACE ~LED~	1	—	• Verify that the all LEDs are correctly light ON and light OFF.	—
~LCD~	2	—	• Verify that the function display shows correct information.	—
~Function keys~	3	—	• Verify that the all keys are correctly function.	—
~External speaker~	4	• Connect an speaker (4 Ω impedance) to the external speaker jack.	• Verify that the audio is output.	—
FLOWING CURRENT	1	• Connect the ammeter between the DC power cable and the DC power supply. • Set the audio volume level to 32 (maximum). • Transmitting in Full-Duplex mode.	• Verify the ammeter	[13.8 V DC input]: Less than 1.2 A [26.4 V DC input]: Less than 0.8 A

SECTION 6

PARTS LIST

[MAIN-A UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
IC101	1140018760	S.IC STM32H750IBK6	B	26.3/43.6
IC102	1130019340	S.IC IS42S16800F-7BLI	B	52.9/33.9
IC103	1130019340	S.IC IS42S16800F-7BLI	B	52.8/49.4
IC104	1130018770	S.IC S25FL127SABMF1100	B	8.1/55.7
IC106	1140017190	S.IC GT24C1024-2CLI-TR	T	31.8/23.0
IC108	1110009440	S.IC S-80929CNPFF-G8ZTFU	B	24.7/50.9
IC201	1140018670	S.IC SIM7500A	T	26.1/67.6
	1140018680	S.IC SIM7500E	[#31]	
	1140018650	S.IC SIM7500SA	[#41]	
	1140018650	S.IC SIM7500SA	[#51]	
IC241	1110008620	S.IC BA2903SFVM-TR	T	21.7/13.2
IC251	1190005020	S.IC TXS4558RUKR	B	29.9/80.3
IC252	1110009050	S.IC S-80922CNPFF-G8STFU	B	33.9/82.0
IC301	1130019850	S.IC TXS0102DCUR	T	37.1/14.7
IC302	1130017600	S.IC PCA9535BS118	T	66.1/26.5
IC401	1130018070	S.IC TC94B24WBG003	B	22.8/18.4
IC403	1130015820	S.IC SN74AUP1T17DCKR	B	35.7/24.4
IC404	1130011990	S.IC SN74LVC1G08DCKR	B	31.2/23.7
IC468	1130018320	S.IC SN74LVC3G14DCTR	B	61.4/85.1
IC469	1130016490	S.IC TC7W125FU (TE12LF)	B	53.3/90.4
IC471	1110008930	S.IC NUJ7704F3-03A-TE1-#ZZZH	B	49.7/92.9
IC474	1130006551	S.IC TC7S08FU (TE85RF)	B	50.9/85.4
IC478	1130012250	S.IC SN74AHC1G02DCKR	B	56.8/85.8
IC479	1130006551	S.IC TC7S08FU (TE85RF)	B	48.7/89.8
IC480	1110008930	S.IC NUJ7704F3-03A-TE1-#ZZZH	B	68.6/83.8
IC502	1130015441	S.IC TC7S07FU LJ	T	30.9/11.3
IC503	1130015441	S.IC TC7S07FU LJ	T	26.7/10.3
IC504	1110010230	S.IC TDA2003L-TQ5-R	T	69.9/69.4
IC505	1110008890	S.IC NUJ7056F3-TE2-#ZZZH	B	12.2/10.4
IC506	1120003070	S.IC MAX3232EIPWR	T	56.3/28.2
IC601	1110008890	S.IC NUJ7056F3-TE2-#ZZZH	B	5.4/29.0
IC602	1110008890	S.IC NUJ7056F3-TE2-#ZZZH	T	10.8/18.1
IC603	1190003963	S.IC HRM1002-016013	T	9.3/35.6
IC604	1180003970	S.REG XC6221A332NR-G	B	8.2/43.7
IC703	1110008690	S.IC NUJ72342V-TE2-#JZZH	B	41.5/14.2
IC751	1110008890	S.IC NUJ7056F3-TE2-#ZZZH	B	11.0/16.4
IC752	1130015760	S.IC TC74VHC4066AFK (EK)	B	10.3/22.5
IC753	1110002861	S.IC TA755393F (TE85RF)	T	15.8/13.9
IC755	1110008890	S.IC NUJ7056F3-TE2-#ZZZH	T	15.0/21.4
IC801	1180003400	S.REG BD9703FP-E2	B	103.2/22.9
IC802	1180003400	S.REG BD9703FP-E2	B	96.8/10.9
IC803	1180004410	S.REG NJM2835DL1-08-TE1-#ZZZB	B	71.2/11.3
IC811	1180003970	S.REG XC6221A332NR-G	T	18.0/26.6
IC821	1180004450	S.REG RT8296BLZSP	B	87.8/32.5
IC831	1110005761	S.IC S-812C50AUA-C3ET2G	B	87.6/20.9
IC851	1190001990	S.IC BD9300F-E2	B	92.7/56.5
IC852	1180004790	S.REG TPS7A4101DGNR	B	97.0/67.6
IC853	1110008620	S.IC BA2903SFVM-TR	B	85.7/72.6
IC854	1130007031	S.IC TC7W08FU (TE12LF)	B	93.5/64.9
IC855	1130007111	S.IC TC7W04FU (TE12LF)	B	92.4/71.8
IC871	1180004800	S.REG XC6222D181MR-G	T	24.5/29.6
IC901	1110010090	S.IC OPA313IDCKR	B	60.7/103.3
IC951	1130019740	S.IC DP83848KSQ/NOPB	B	15.2/82.9
IC952	1130018740	S.IC RX8130CE	T	32.1/26.4
Q201	1590005220	S.TRA LDTA114YET1G	T	25.6/81.0
Q202	1590004070	S.TRA LDTC144EET1G	T	27.9/81.0
Q203	1590004070	S.TRA LDTC144EET1G	T	10.4/58.2
Q204	1590004070	S.TRA LDTC144EET1G	T	15.6/54.3
Q205	1590004070	S.TRA LDTC144EET1G	T	42.2/67.1
Q206	1590004070	S.TRA LDTC144EET1G	T	23.4/81.1
Q207	1590004070	S.TRA LDTC144EET1G	T	42.8/69.4
Q253	1590004070	S.TRA LDTC144EET1G	B	28.1/84.1
Q256	1590004070	S.TRA LDTC144EET1G	B	32.0/84.2
Q451	1510000620	S.TRA 2SA1576AT106S	B	77.3/78.5
Q452	1530002691	S.TRA 2SC4116-GR (TE85RF)	B	80.3/78.1
Q454	1590004070	S.TRA LDTC144EET1G	B	71.2/84.4
Q455	1590004060	S.TRA LDTC114EET1G	B	58.2/92.4
Q456	1590004310	S.TRA LDTA114EET1G	B	56.0/92.4
Q459	1560002190	S.FET RUM002N02T2L	B	46.2/89.6
Q460	1590004070	S.TRA LDTC144EET1G	B	66.4/85.4
Q461	1590004050	S.TRA LDTA114EET1G	B	68.7/86.4
Q502	1560001330	S.FET RSR025N03	B	56.4/75.9
Q503	1590004050	S.TRA LDTA114EET1G	B	64.4/74.8
Q504	1590004070	S.TRA LDTC144EET1G	B	63.3/76.9
Q505	1590004070	S.TRA LDTC144EET1G	B	62.0/75.0
Q506	1530002851	S.TRA 2SC4116-BL (TE85RF)	B	56.2/69.3
Q507	1560001330	S.FET RSR025N03	B	56.4/72.4
Q508	1560001330	S.FET RSR025N03	B	60.2/72.4
Q509	1560001330	S.FET RSR025N03	B	65.6/52.8
Q510	1530002851	S.TRA 2SC4116-BL (TE85RF)	B	50.3/17.2
Q516	1590004050	S.TRA LDTA114EET1G	T	60.8/80.3
Q518	1560001330	S.FET RSR025N03	T	51.5/9.8
Q519	1560001330	S.FET RSR025N03	B	60.2/14.5
Q522	1530002851	S.TRA 2SC4116-BL (TE85RF)	T	56.2/8.0
Q523	1530002851	S.TRA 2SC4116-BL (TE85RF)	B	54.1/12.6
Q601	1590004060	S.TRA LDTC114EET1G	T	17.3/34.8
Q602	1590004060	S.TRA LDTC114EET1G	T	17.4/38.7
Q603	1590004060	S.TRA LDTC114EET1G	B	2.3/31.2
Q604	1590004060	S.TRA LDTC114EET1G	B	4.0/37.0
Q605	1590004060	S.TRA LDTC114EET1G	B	5.4/34.4
Q606	1590004070	S.TRA LDTC144EET1G	B	8.9/39.5
Q701	1560001330	S.FET RSR025N03	B	36.2/19.9
Q702	1530002851	S.TRA 2SC4116-BL (TE85RF)	B	31.7/17.2
Q751	1590004060	S.TRA LDTC114EET1G	B	12.8/26.2
Q752	1590004060	S.TRA LDTC114EET1G	B	8.7/26.5
Q753	1590004060	S.TRA LDTC114EET1G	B	11.8/29.7
Q801	1590004060	S.TRA LDTC114EET1G	T	21.0/24.7

[MAIN-A UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
Q802	1590004310	S.TRA LDTA114EET1G	T	21.1/27.0
Q803	1590004060	S.TRA LDTC114EET1G	B	8.7/46.8
Q804	1590004310	S.TRA LDTA114EET1G	B	6.7/46.8
Q851	1530002691	S.TRA 2SC4116-GR (TE85RF)	B	104.9/55.5
Q852	1510000771	S.TRA 2SA1586-GR (TE85LF)	B	101.5/57.1
Q853	1590004060	S.TRA LDTC114EET1G	B	97.6/62.7
Q854	1550000340	S.FET TJ15S06M3L	B	104.9/48.2
Q855	1590004060	S.TRA LDTC114EET1G	B	100.9/71.0
Q856	1590004050	S.TRA LDTA114EET1G	B	99.9/69.0
Q857	1560002190	S.FET RUM002N02T2L	B	90.6/67.2
Q901	1590004050	S.TRA LDTA114EET1G	B	62.3/106.5
Q902	1590004060	S.TRA LDTC114EET1G	B	64.8/106.4
Q921	1560002190	S.FET RUM002N02T2L	B	85.0/51.9
Q951	1590004070	S.TRA LDTC144EET1G	B	26.4/88.4
Q952	1590004090	S.TRA LDTC114YET1G	T	71.4/27.8
Q953	1590004090	S.TRA LDTC114YET1G	T	70.9/29.8
D202	1750003390	S.ZEN RCLAMP1521P.TCT	T	35.3/85.4
D203	1750003390	S.ZEN RCLAMP1521P.TCT	T	45.3/60.6
D204	1750003390	S.ZEN RCLAMP1521P.TCT	T	40.0/81.5
D251	1750003390	S.ZEN RCLAMP1521P.TCT	B	16.8/59.8
D252	1750003390	S.ZEN RCLAMP1521P.TCT	B	21.5/59.2
D253	1750003390	S.ZEN RCLAMP1521P.TCT	B	22.8/59.3
D254	1750003390	S.ZEN RCLAMP1521P.TCT	B	18.5/59.8
D255	1750003390	S.ZEN RCLAMP1521P.TCT	B	30.6/59.7
D256	1750003390	S.ZEN RCLAMP1521P.TCT	B	32.3/59.8
D257	1750003390	S.ZEN RCLAMP1521P.TCT	B	35.3/59.3
D258	1750003390	S.ZEN RCLAMP1521P.TCT	B	36.6/59.3
D451	1730002760	S.ZEN UDZSTE-17 9.1B	B	82.7/82.6
D452	1750002120	S.ZEN DZ2J330M0L	B	79.4/82.6
D453	1750001810	S.DIO L1SS400T1G	B	60.6/92.6
D454	1750001810	S.DIO L1SS400T1G	B	55.8/83.7
D455	1750001810	S.DIO L1SS400T1G	B	60.6/91.4
D456	1750003830	S.DIO RB751CM-40T2R	B	48.2/85.9
D459	1790001670	S.DIO RB706F-40T106	B	62.2/80.3
D470	1750001810	S.DIO L1SS400T1G	B	57.7/81.5
D471	1750001810	S.DIO L1SS400T1G	B	80.3/80.1
D502	1750001810	S.DIO L1SS400T1G	T	29.0/8.5
D503	1790002170	S.VAR LXES15AAA1-133	T	61.5/10.9
D504	1790002170	S.VAR LXES15AAA1-133	T	58.4/11.2
D509	1790002170	S.VAR LXES15AAA1-133	T	56.4/20.6
D510	1790002170	S.VAR LXES15AAA1-133	T	62.4/21.5
D511	1790002170	S.VAR LXES15AAA1-133	T	64.2/21.0
D512	1790002170	S.VAR LXES15AAA1-133	T	69.9/19.8
D601	1750001810	S.DIO L1SS400T1G	B	6.2/43.7
D801	1750001690	S.DIO RB050LA-40	B	105.1/30.2
D802	1750001690	S.DIO RB050LA-40	B	91.8/9.1
D803	1750001810	S.DIO L1SS400T1G	B	74.6/11.3
D804	1750000540	S.DIO RB060L-40 TE-25	B	48.1/5.3
D811	1750001810	S.DIO L1SS400T1G	T	18.0/29.2
D821	1750001810	S.DIO L1SS400T1G	B	89.8/38.0
D831	1750001810	S.DIO L1SS400T1G	B	86.6/14.1
D851	1750004080	S.DIO RB088BM-60TL	B	91.2/99.3
D853	1750002000	S.ZEN DZ2J180M0L	B	102.2/63.6
D854	1750003340	S.DIO RB095BM-60TL	B	94.2/46.8
D855	1730003040	S.ZEN DZ2J030M0L	B	88.2/67.1
D871	1750001810	S.DIO L1SS400T1G	T	24.5/32.0
D901	1750001810	S.DIO L1SS400T1G	B	67.7/104.4
D902	1730003040	S.ZEN DZ2J030M0L	B	53.3/105.0
D951	1750003390	S.ZEN RCLAMP1521P.TCT	T	14.5/93.7
D952	1750003390	S.ZEN RCLAMP1521P.TCT	T	16.5/93.7
D953	1750003390	S.ZEN RCLAMP1521P.TCT	T	11.5/93.7
D954	1750003390	S.ZEN RCLAMP1521P.TCT	T	13.5/93.7
D956	1790002170	S.VAR LXES15AAA1-133	T	63.3/21.1
D957	1790002170	S.VAR LXES15AAA1-133	T	53.4/19.7
D958	1790002170	S.VAR LXES15AAA1-133	T	58.7/20.6
D959	1750000370	S.DIO DA221 TL	T	54.9/23.7
D960	1750000370	S.DIO DA221 TL	T	49.2/27.2
D961	1750000370	S.DIO DA221 TL	T	50.8/25.0
D962	1750000370	S.DIO DA221 TL	T	52.8/24.4
D963	1750001810	S.DIO L1SS400T1G	T	32.3/28.9
FI951	4580000280	S.FIL DLP11SN121SL2	B	15.5/90.8
FI952	4580000280	S.FIL DLP11SN121SL2	B	12.5/90.9
FI953	4580000370	S.FIL DLP11SA350HL2L	B	30.3/37.4
X101	6050014190	S.XTA CR-1020 (12.000 MHz)	B	29.2/51.6
X401	6050013720	S.XTA CR-975 (38.4 MHz)	B	35.3/28.6
X951	6050014960	S.XTA CR-1087 (50 MHz)	B	22.4/82.1
L203	6200015730	S.COI MLG1005S 47NJ-T	T	40.9/84.2
L601	6200013850	S.COI MLK1005S15NJT	T	10.2/21.7
L801	6200013280	S.COI SLF10145T-330M1R6-PF	T	97.4/25.7
L802	6190002510	S.COI CER8065B-220M-R0231	T	96.2/15.2
L821	6200015320	S.COI VLP6045LT-4R7M	B	80.6/36.2
L851	6200013350	S.COI CDRH127NP-101MCI	T	72.7/82.3
L852	6190002000	S.COI SLF12575T-330M3R2-PF	T	99.6/40.9
L853	6200013350	S.COI CDRH127NP-101MCI	T	86.9/55.3
L951	6200009940	S.COI BLM21PG221SN1	B	10.7/85.3
L952	5920000660	COI FK-060C-1020		
R103	7030016560	S.RES RMC1/16SJPTH	B	26.7/49.6
R104	7030016560	S.RES RMC1/16SJPTH	B	19.9/43.5

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

[MAIN-A UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
R105	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	23.3/44.9
R106	7030015520	S.RES RMC1/16JPTP	B	33.1/49.1
R107	7030016260	S.RES RMC1/16S-330JTH (33)	B	25.2/53.8
R108	7030016260	S.RES RMC1/16S-330JTH (33)	B	27.0/37.6
R109	7030015520	S.RES RMC1/16JPTP	B	23.0/37.1
R111	7030015520	S.RES RMC1/16JPTP	T	26.8/38.9
R113	7030016570	S.RES RMC1/16S-180JTH (18)	B	20.5/49.9
R114	7030016570	S.RES RMC1/16S-180JTH (18)	B	22.7/53.3
R115	7030016570	S.RES RMC1/16S-180JTH (18)	B	22.6/52.4
R116	7030016570	S.RES RMC1/16S-180JTH (18)	B	23.0/54.4
R121	7030015520	S.RES RMC1/16JPTP	B	18.1/46.1
R123	7410001240	S.ARR EXB28V220JX	B	33.3/36.0
R124	7410001240	S.ARR EXB28V220JX	B	33.3/43.7
R125	7030016260	S.RES RMC1/16S-330JTH (33)	B	33.2/45.7
R126	7030016260	S.RES RMC1/16S-330JTH (33)	B	35.5/42.4
R127	7410001390	S.ARR EXB28V330JX	T	35.9/37.8
R128	7410001390	S.ARR EXB28V330JX	T	36.6/41.1
R129	7410001390	S.ARR EXB28V330JX	T	36.8/43.6
R130	7410001390	S.ARR EXB28V330JX	T	36.7/46.1
R131	7030016260	S.RES RMC1/16S-330JTH (33)	B	20.0/44.4
R132	7030016260	S.RES RMC1/16S-330JTH (33)	B	33.2/48.1
R133	7030016260	S.RES RMC1/16S-330JTH (33)	B	26.1/37.6
R134	7030016260	S.RES RMC1/16S-330JTH (33)	B	19.9/47.6
R135	7410001240	S.ARR EXB28V220JX	B	33.3/41.0
R136	7410001240	S.ARR EXB28V220JX	B	33.3/38.5
R137	7410001240	S.ARR EXB28V220JX	B	47.7/29.4
R138	7410001240	S.ARR EXB28V220JX	B	48.7/26.9
R139	7410001240	S.ARR EXB28V220JX	B	48.2/39.6
R140	7410001240	S.ARR EXB28V220JX	B	47.3/36.8
R141	7410001240	S.ARR EXB28V220JX	B	47.8/45.0
R142	7410001240	S.ARR EXB28V220JX	B	48.1/42.5
R143	7410001240	S.ARR EXB28V220JX	B	48.0/55.1
R144	7410001240	S.ARR EXB28V220JX	B	47.2/52.3
R145	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	23.4/50.8
R151	7030016570	S.RES RMC1/16S-180JTH (18)	B	13.2/55.9
R152	7030016570	S.RES RMC1/16S-180JTH (18)	B	11.2/52.0
R153	7030016570	S.RES RMC1/16S-180JTH (18)	B	4.9/52.1
R154	7030016570	S.RES RMC1/16S-180JTH (18)	B	2.8/55.9
R176	7030015910	S.RES RMC1/16S-101JTH (100)	T	4.6/68.4
R177	7030015910	S.RES RMC1/16S-101JTH (100)	T	10.6/67.4
R178	7030015910	S.RES RMC1/16S-101JTH (100)	T	3.4/67.5
R179	7030015910	S.RES RMC1/16S-101JTH (100)	T	10.6/66.4
R180	7030015910	S.RES RMC1/16S-101JTH (100)	T	3.9/65.9
R203	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	T	20.7/80.5
R204	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	40.6/68.7
R205	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	44.9/69.4
R209	7030016560	S.RES RMC1/16SJPTH	T	34.9/84.1
R212	7030016150	S.RES RMC1/16S-100JTH (10)	T	42.5/84.2
R213	7030016560	S.RES RMC1/16SJPTH	T	40.4/76.6
R222	7030016560	S.RES RMC1/16SJPTH	T	34.9/81.7
R230	7030016560	S.RES RMC1/16SJPTH	T	41.7/60.1
R231	7030016560	S.RES RMC1/16SJPTH	T	44.1/60.1
R241	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	19.4/11.4
R242	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	19.2/13.8
R243	7030016380	S.RES RMC1/16S-183JTH (18 k)	T	19.2/12.7
R244	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	22.0/10.1
R245	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	20.1/16.5
R246	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	21.4/16.4
R247	7030016190	S.RES RMC1/16S-273JTH (27 k)	T	21.4/17.3
R248	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	T	24.2/12.1
R252	7030016560	S.RES RMC1/16SJPTH	B	32.3/82.5
R253	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	30.4/83.3
R254	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	29.7/84.6
R255	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	30.6/84.7
R256	7030016560	S.RES RMC1/16SJPTH	B	27.4/81.8
R257	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	27.6/82.7
R258	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	18.3/81.5
R262	7030015900	S.RES RMC1/16S-470JTH (47)	B	33.1/79.3
R263	7030015900	S.RES RMC1/16S-470JTH (47)	B	32.7/78.0
R264	7030015900	S.RES RMC1/16S-470JTH (47)	B	32.8/80.3
R265	7030015900	S.RES RMC1/16S-470JTH (47)	B	27.2/78.1
R266	7030015900	S.RES RMC1/16S-470JTH (47)	B	28.4/77.5
R267	7030015900	S.RES RMC1/16S-470JTH (47)	B	26.3/78.9
R301	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	36.4/12.0
R302	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	62.8/26.8
R303	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	T	35.7/17.4
R304	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	T	35.3/18.3
R305	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	T	39.8/15.3
R306	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	T	38.9/14.7
R353	7410001390	S.ARR EXB28V330JX	T	36.3/48.6
R401	7030015910	S.RES RMC1/16S-101JTH (100)	B	29.4/24.5
R402	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	26.3/20.1
R403	7030015910	S.RES RMC1/16S-101JTH (100)	B	20.2/51.7
R404	7030015910	S.RES RMC1/16S-101JTH (100)	B	18.6/48.4
R405	7030015910	S.RES RMC1/16S-101JTH (100)	B	19.9/46.3
R406	7030015910	S.RES RMC1/16S-101JTH (100)	B	27.3/23.1
R407	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	26.3/18.3
R408	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	26.3/19.2
R409	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	24.8/23.9
R410	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	27.5/20.1
R411	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	23.9/24.0
R412	7030016560	S.RES RMC1/16SJPTH	B	23.2/12.1
R413	7030016560	S.RES RMC1/16SJPTH	B	24.8/12.6
R414	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	28.0/15.9
R415	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	24.3/25.6
R416	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	23.2/22.0
R417	7030016560	S.RES RMC1/16SJPTH	B	16.1/17.7
R418	7030016050	S.RES RMC1/16S-102JTH (1 k)	B	23.8/27.0
R419	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	26.8/17.4
R420	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	28.0/15.0
R421	7030016050	S.RES RMC1/16S-102JTH (1 k)	B	23.0/23.9
R422	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	B	24.5/14.2
R423	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	B	24.4/15.1
R424	7030016560	S.RES RMC1/16SJPTH	B	18.0/16.9
R425	7030015520	S.RES RMC1/16JPTP	B	16.7/21.3

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

[MAIN-A UNIT]

REF NO.	PART NO.	DESCRIPTION		M.	H/V LOCATION
R426	7030016290	S.RES	RMC1/16S-222JTH (2.2 k)	B	18.7/24.3
R427	7030016560	S.RES	RMC1/16SJPTH	T	14.3/16.7
R430	7030015520	S.RES	RMC1/16JPTP	B	16.7/26.2
R432	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	36.1/26.9
R433	7030008270	S.RES	RR0510P-104-D (100 k)	B	33.8/24.6
R434	7030006290	S.RES	RR0510P-333-D (33 k)	B	37.6/23.7
R435	7030015910	S.RES	RMC1/16S-101JTH (100)	B	34.3/22.6
R436	7030016560	S.RES	RMC1/16SJPTH	B	14.9/18.7
R437	7030016560	S.RES	RMC1/16SJPTH	B	14.6/19.6
R438	7030016560	S.RES	RMC1/16SJPTH	B	24.3/37.5
R439	7030016060	S.RES	RMC1/16S-105JTH (1 M)	B	36.1/22.7
R440	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	32.8/22.3
R441	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	32.9/24.6
R442	7030016060	S.RES	RMC1/16S-105JTH (1 M)	B	30.2/26.2
R443	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	30.4/20.8
R451	7540000350	S.ABS	ERZVF2M390	B	80.3/86.7
R453	7030016240	S.RES	RMC1/16S-684JTH (680 k)	B	79.0/76.6
R454	7030016400	S.RES	RMC1/16S-564JTH (560 k)	B	77.3/76.6
R456	7030016290	S.RES	RMC1/16S-222JTH (2.2 k)	B	56.4/94.4
R459	7030016560	S.RES	RMC1/16SJPTH	T	30.3/7.5
R460	7030016290	S.RES	RMC1/16S-222JTH (2.2 k)	B	59.1/80.7
R461	7030016090	S.RES	RMC1/16S-223JTH (22 k)	B	60.3/81.1
R462	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	51.1/90.5
R463	7030015960	S.RES	RMC1/16S-472JTH (4.7 k)	B	52.0/83.6
R465	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	47.0/85.9
R466	7030016290	S.RES	RMC1/16S-222JTH (2.2 k)	B	50.4/83.6
R467	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	68.7/88.3
R468	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	71.2/86.4
R469	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	44.8/90.0
R470	7030016560	S.RES	RMC1/16SJPTH	B	57.3/94.4
R492	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	80.0/81.2
R493	7030016240	S.RES	RMC1/16S-684JTH (680 k)	B	78.3/80.6
R494	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	75.9/80.7
R503	7030016250	S.RES	RMC1/16S-220JTH (22)	B	50.6/20.3
R504	7030015950	S.RES	RMC1/16S-152JTH (1.5 k)	B	64.4/50.2
R510	7030016050	S.RES	RMC1/16S-102JTH (1 k)	B	50.1/77.2
R511	7030015970	S.RES	RMC1/16S-103JTH (10 k)	T	61.9/78.8
R512	7030016070	S.RES	RMC1/16S-474JTH (470 k)	B	53.8/75.6
R513	7030016070	S.RES	RMC1/16S-474JTH (470 k)	B	53.1/74.4
R516	7030015900	S.RES	RMC1/16S-470JTH (47)	T	25.6/7.5
R517	7030015900	S.RES	RMC1/16S-470JTH (47)	B	39.0/19.8
R518	7030016110	S.RES	RMC1/16S-473JTH (47 k)	T	30.4/9.5
R519	7030016020	S.RES	RMC1/16S-104JTH (100 k)	T	49.0/9.5
R521	7030016050	S.RES	RMC1/16S-102JTH (1 k)	T	26.5/8.4
R523	7030016050	S.RES	RMC1/16S-102JTH (1 k)	B	59.3/69.5
R524	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	58.3/69.5
R525	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	62.8/73.3
R526	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	55.7/67.6
R528	7030016110	S.RES	RMC1/16S-473JTH (47 k)	T	28.2/12.2
R529	7030016290	S.RES	RMC1/16S-222JTH (2.2 k)	T	30.7/13.2
R530	7030015650	S.RES	RMC1/10-1R0JTP (1)	B	59.5/75.8
R531	7030016560	S.RES	RMC1/16SJPTH	T	56.2/9.8
R532	7030016050	S.RES	RMC1/16S-102JTH (1 k)	B	64.9/56.6
R533	7030016420	S.RES	RMC1/16S-182JTH (1.8 k)	B	64.4/55.2
R534	7030016050	S.RES	RMC1/16S-102JTH (1 k)	T	56.2/10.7
R535	7030016560	S.RES	RMC1/16SJPTH	T	58.0/8.0
R537	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	66.9/50.0
R538	7030016050	S.RES	RMC1/16S-102JTH (1 k)	B	49.9/19.0
R539	7030016560	S.RES	RMC1/16SJPTH	B	48.0/16.0
R541	7030016140	S.RES	RMC1/16S-124JTH (120 k)	B	14.0/10.3
R542	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	52.2/13.9
R543	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	14.7/11.7
R544	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	15.5/13.6
R545	7030016390	S.RES	RMC1/16S-184JTH (180 k)	B	13.8/11.9
R546	7030015970	S.RES	RMC1/16S-103JTH (10 k)	T	58.9/7.8
R564	7030015900	S.RES	RMC1/16S-470JTH (47)	B	58.8/12.2
R567	7030015970	S.RES	RMC1/16S-103JTH (10 k)	T	17.4/11.6
R571	7030016080	S.RES	RMC1/16S-822JTH (8.2 k)	B	60.7/17.4
R572	7030015520	S.RES	RMC1/16JPTP	B	50.4/13.5
R573	7030015130	S.RES	RMC1/16-102JTP (1 k)	B	54.0/14.9
R574	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	58.8/16.6
R580	7030015970	S.RES	RMC1/16S-103JTH (10 k)	T	54.4/9.9
R583	7030016560	S.RES	RMC1/16SJPTH	B	7.9/17.0
R584	7030016560	S.RES	RMC1/16SJPTH	B	8.0/19.7
R587	7030015910	S.RES	RMC1/16S-101JTH (100)	T	61.0/7.1
R592	7030016170	S.RES	RMC1/16S-560JTH (56)	B	20.1/42.6
R594	7030016170	S.RES	RMC1/16S-560JTH (56)	B	28.2/37.6
R595	7030016170	S.RES	RMC1/16S-560JTH (56)	B	35.5/46.6
R596	7030016170	S.RES	RMC1/16S-560JTH (56)	B	20.0/41.7
R597	7030015520	S.RES	RMC1/16JPTP	B	56.2/14.3
R598	7030016560	S.RES	RMC1/16SJPTH	T	53.1/8.0
R603	7030016050	S.RES	RMC1/16S-102JTH (1 k)	B	3.3/26.9
R604	7030016420	S.RES	RMC1/16S-182JTH (1.8 k)	B	7.4/28.1
R605	7030016140	S.RES	RMC1/16S-124JTH (120 k)	T	7.9/17.3
R606	7030016330	S.RES	RMC1/16S-153JTH (15 k)	B	7.4/29.0
R607	7030015910	S.RES	RMC1/16S-101JTH (100)	T	8.9/16.7
R608	7030016020	S.RES	RMC1/16S-104JTH (100 k)	T	13.5/18.3
R609	7030015980	S.RES	RMC1/16S-333JTH (33 k)	B	3.7/28.3
R610	7030016020	S.RES	RMC1/16S-104JTH (100 k)	T	10.9/16.3
R611	7030016020	S.RES	RMC1/16S-104JTH (100 k)	T	7.9/18.9
R612	7030015980	S.RES	RMC1/16S-333JTH (33 k)	B	2.5/28.6
R613	7030016360	S.RES	RMC1/16S-123JTH (12 k)	B	5.4/31.1
R614	7030016360	S.RES	RMC1/16S-123JTH (12 k)	B	7.4/29.9
R615	7030016330	S.RES	RMC1/16S-153JTH (15 k)	T	11.3/20.8
R616	7030015970	S.RES	RMC1/16S-103JTH (10 k)	T	17.3/32.8
R617	7030016050	S.RES	RMC1/16S-102JTH (1 k)	T	9.3/22.6
R618	7030015970	S.RES	RMC1/16S-103JTH (10 k)	T	18.0/41.4
R619	7030016560	S.RES	RMC1/16SJPTH	B	4.8/43.1
R620	7030016020	S.RES	RMC1/16S-104JTH (100 k)	T	2.1/31.3
R622	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	2.9/38.3
R623	7030016020	S.RES	RMC1/16S-104JTH (100 k)	B	3.3/34.9
R624	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	6.0/36.3
R625	7030016560	S.RES	RMC1/16SJPTH	B	6.7/41.3
R631	7030016560	S.RES	RMC1/16SJPTH	T	6.7/20.5
R718	7030016050	S.RES	RMC1/16S-102JTH (1 k)	B	32.1/18.9

[MAIN-A UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
R720	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	32.6/20.1
R721	7030016560	S.RES RMC1/16SJPTH	B	34.7/17.8
R722	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	29.7/17.0
R723	7030016560	S.RES RMC1/16SJPTH	B	46.5/17.4
R725	7030016560	S.RES RMC1/16SJPTH	B	19.9/10.5
R727	7030016560	S.RES RMC1/16SJPTH	B	37.8/18.4
R751	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	11.3/26.0
R752	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	10.3/26.3
R753	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	11.1/27.9
R754	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	12.8/15.0
R755	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	11.3/13.5
R756	7030016190	S.RES RMC1/16S-473JTH (27 k)	B	9.1/17.6
R757	7030016500	S.RES RMC1/16S-562JTH (5.6 k)	B	10.9/18.2
R758	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	6.7/19.5
R759	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	6.7/17.7
R760	7030015950	S.RES RMC1/16S-152JTH (1.5 k)	T	13.3/22.6
R763	7030016500	S.RES RMC1/16S-562JTH (5.6 k)	B	12.7/12.6
R764	7030016060	S.RES RMC1/16S-105JTH (1 M)	T	13.6/13.1
R765	7030016110	S.RES RMC1/16S-473JTH (47 k)	T	12.7/14.7
R766	7030016110	S.RES RMC1/16S-473JTH (47 k)	T	13.6/14.7
R767	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	16.8/21.4
R768	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	18.0/21.9
R769	7030016500	S.RES RMC1/16S-562JTH (5.6 k)	T	13.3/20.9
R770	7030015910	S.RES RMC1/16S-101JTH (100)	T	17.2/20.1
R772	7030016420	S.RES RMC1/16S-182JTH (1.8 k)	T	15.2/16.7
R773	7030015940	S.RES RMC1/16S-681JTH (680)	T	16.1/16.7
R774	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	B	12.2/18.9
R801	7030006030	S.RES RR0510P-822-D (8.2 k)	B	104.7/32.4
R802	7030005800	S.RES RR0510P-102-D (1 k)	B	106.3/32.4
R803	7030010990	S.RES RR0510P-272-D (2.7 k)	B	100.9/15.8
R804	7030005990	S.RES RR0510P-122-D (1.2 k)	B	100.9/14.1
R805	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	T	22.6/27.2
R806	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	10.0/45.4
R820	7030016220	S.RES RMC1/16S-563JTH (56 k)	B	93.2/32.2
R821	7030015370	S.RES RMC1/16-104JTP (100 k)	B	92.2/33.7
R822	7030015290	S.RES RMC1/16-223JTP (22 k)	B	91.8/38.7
R823	7030011920	S.RES RR0510P-561-D (560)	B	90.2/35.7
R824	7030011170	S.RES RR0510P-471-D (470)	B	87.7/36.0
R826	7030011000	S.RES RR0510P-392-D (3.9 k)	B	90.2/36.6
R827	7030015640	S.RES RMC1/16JPTP	B	76.0/38.0
R836	7030015520	S.RES RMC1/16JPTP	B	86.0/7.4
R851	7540000420	S.ABS ERZVF2M470	B	93.7/88.6
R853	7030016090	S.RES RMC1/16S-223JTH (22 k)	B	87.4/61.1
R854	7030016090	S.RES RMC1/16S-223JTH (22 k)	B	89.2/61.1
R855	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	90.2/61.1
R856	7030016090	S.RES RMC1/16S-223JTH (22 k)	B	86.7/56.4
R857	7030016560	S.RES RMC1/16SJPTH	B	95.3/51.9
R858	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	B	94.0/51.9
R859	7030015830	S.RES RMC1/16-222JTP (2.2 k)	B	101.1/59.5
R860	7030018120	S.RES RMC1/10-472JTP (4.7 k)	B	102.2/61.8
R861	7030015070	S.RES RMC1/16-331JTP (330)	B	99.2/62.8
R862	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	105.0/51.9
R863	7030015520	S.RES RMC1/16JPTP	B	103.5/53.4
R864	7030015520	S.RES RMC1/16JPTP	B	101.6/54.4
R865	7030008270	S.RES RR0510P-104-D (100 k)	B	87.2/54.2
R866	7030016560	S.RES RMC1/16SJPTH	B	87.2/55.1
R867	7030005820	S.RES RR0510P-103-D (10 k)	B	89.1/51.9
R868	7030016390	S.RES RMC1/16S-184JTH (180 k)	B	96.6/73.2
R869	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	97.9/72.3
R870	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	98.9/71.0
R871	7030016380	S.RES RMC1/16S-183JTH (18 k)	B	88.8/73.2
R872	7030016330	S.RES RMC1/16S-153JTH (15 k)	B	88.8/71.6
R873	7030015930	S.RES RMC1/16S-471JTH (470)	B	88.8/70.0
R874	7030016050	S.RES RMC1/16S-102JTH (1 k)	B	89.7/72.5
R875	7030016090	S.RES RMC1/16S-223JTH (22 k)	B	87.9/73.2
R876	7030015990	S.RES RMC1/16S-683JTH (68 k)	B	87.9/71.6
R877	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	86.6/68.8
R878	7030016060	S.RES RMC1/16S-105JTH (1 M)	B	90.1/73.7
R879	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	B	90.1/74.6
R880	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	B	90.1/63.6
R881	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	94.6/70.7
R882	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	91.7/68.7
R883	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	91.7/77.9
R901	7030016190	S.RES RMC1/16S-273JTH (27 k)	B	60.3/106.5
R902	7030015990	S.RES RMC1/16S-683JTH (68 k)	B	58.6/106.5
R903	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	56.9/106.5
R904	7030015910	S.RES RMC1/16S-101JTH (100)	B	60.7/105.1
R905	7030016150	S.RES RMC1/16S-100JTH (10)	B	62.6/103.0
R921	7030019500	S.RES RMC1/8-681JTP (680)	B	86.5/48.1
R922	7030019500	S.RES RMC1/8-681JTP (680)	B	84.4/48.1
R923	7030019500	S.RES RMC1/8-681JTP (680)	B	82.3/48.1
R951	7030019670	S.RES RMC1/16K392FTP (3.9 k)	B	20.0/86.8
R952	7030014410	S.RES RR0510P-151-D (150)	B	21.0/88.4
R953	7030012340	S.RES RR0510P-821-D	B	21.2/89.7
R955	7030015930	S.RES RMC1/16S-471JTH (470)	B	25.4/84.1
R956	7030015930	S.RES RMC1/16S-471JTH (470)	B	22.7/85.8
R957	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	22.2/87.1
R958	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	24.9/85.4
R959	7030016150	S.RES RMC1/16S-100JTH (10)	B	30.3/54.0
R961	7030016560	S.RES RMC1/16SJPTH	B	20.1/81.6
R964	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	18.4/79.0
R970	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	20.3/78.4
R972	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	14.7/76.9
R973	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	11.6/78.8
R976	7030015910	S.RES RMC1/16S-101JTH (100)	B	30.7/54.9
R977	7030015910	S.RES RMC1/16S-101JTH (100)	B	34.9/49.3
R978	7030015910	S.RES RMC1/16S-101JTH (100)	B	36.3/50.4
R979	7030015950	S.RES RMC1/16S-152JTH (1.5 k)	B	20.5/83.1
R980	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	23.2/88.2
R981	7030015910	S.RES RMC1/16S-101JTH (100)	B	13.2/88.4
R982	7030015910	S.RES RMC1/16S-101JTH (100)	B	13.2/89.3
R983	7030015910	S.RES RMC1/16S-101JTH (100)	B	11.6/89.3
R984	7030015910	S.RES RMC1/16S-101JTH (100)	B	11.6/88.4
R985	7030015910	S.RES RMC1/16S-101JTH (100)	B	16.5/88.4
R986	7030015910	S.RES RMC1/16S-101JTH (100)	B	16.4/89.3

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

[MAIN-A UNIT]

REF NO.	PART NO.		DESCRIPTION	M.	H/V LOCATION
R987	7030015910	S.RES	RMC1/16S-101JTH (100)	B	14.8/89.3
R988	7030015910	S.RES	RMC1/16S-101JTH (100)	B	14.8/88.4
R989	7030015030	S.RES	RMC1/16-151JTP (150)	T	13.9/103.5
R990	7030015030	S.RES	RMC1/16-151JTP (150)	T	13.9/104.7
R991	7030015030	S.RES	RMC1/16-151JTP (150)	T	17.4/103.5
R992	7030015030	S.RES	RMC1/16-151JTP (150)	T	17.4/104.7
R993	7030015030	S.RES	RMC1/16-151JTP (150)	T	16.6/101.6
R994	7030015030	S.RES	RMC1/16-151JTP (150)	T	15.4/101.6
R995	7030015030	S.RES	RMC1/16-151JTP (150)	T	14.1/101.6
R996	7030015030	S.RES	RMC1/16-151JTP (150)	T	12.9/101.6
R999	7410001170	S.ARR	EXB28V470JX	T	65.9/9.5
R1000	7410001340	S.ARR	EXB28V473JX	T	72.7/25.1
R1001	7410001170	S.ARR	EXB28V470JX	T	70.0/25.6
R1002	7030015900	S.RES	RMC1/16S-470JTH (47)	T	70.1/23.7
R1003	7410001340	S.ARR	EXB28V473JX	T	68.2/30.4
R1004	7410001340	S.ARR	EXB28V473JX	T	65.5/30.4
R1005	7410001340	S.ARR	EXB28V473JX	T	51.0/29.6
R1006	7410001170	S.ARR	EXB28V470JX	B	18.6/36.7
R1008	7410001170	S.ARR	EXB28V470JX	T	67.1/21.9
R1009	7410001340	S.ARR	EXB28V473JX	T	69.8/21.9
R1010	7030019310	S.RES	RMC1/8-271JTP (270)	T	61.0/63.2
R1011	7030016630	S.RES	RMC1/16S-2R7JTH (2.7)	T	65.5/58.4
R1012	7030016470	S.RES	RMC1/16S-390JTH (39)	T	69.6/58.4
R1019	7030016260	S.RES	RMC1/16S-330JTH (33)	B	31.3/52.4
R1020	7030016260	S.RES	RMC1/16S-330JTH (33)	B	32.1/51.2
R1021	7030016260	S.RES	RMC1/16S-330JTH (33)	B	18.4/43.4
R1022	7030016260	S.RES	RMC1/16S-330JTH (33)	B	31.0/34.9
R1023	7030016260	S.RES	RMC1/16S-330JTH (33)	B	19.4/39.0
R1024	7030016260	S.RES	RMC1/16S-330JTH (33)	B	19.4/39.9
R1025	7030016260	S.RES	RMC1/16S-330JTH (33)	B	20.1/40.8
R1027	7030016260	S.RES	RMC1/16S-330JTH (33)	B	17.9/40.6
R1028	7030016260	S.RES	RMC1/16S-330JTH (33)	B	20.5/37.9
R1029	7030016260	S.RES	RMC1/16S-330JTH (33)	B	21.5/36.4
R1030	7030016360	S.RES	RMC1/16S-123JTH (12 k)	B	16.0/14.8
R1031	7030016350	S.RES	RMC1/16S-122JTH (1.2 k)	B	14.0/14.4
R1032	7030015910	S.RES	RMC1/16S-101JTH (100)	B	32.5/15.4
R1033	7030015520	S.RES	RMC1/16SJTP	T	51.7/16.0
R1034	7030016560	S.RES	RMC1/16SJPTH	B	20.3/45.3
R1035	7030016560	S.RES	RMC1/16SJPTH	B	18.3/49.5
R1036	7030016560	S.RES	RMC1/16SJPTH	B	35.8/44.3
R1037	7030016560	S.RES	RMC1/16SJPTH	B	33.2/47.2
R1038	7030015970	S.RES	RMC1/16S-103JTH (10 k)	T	55.8/6.2
R1039	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	52.2/12.3
R1040	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	51.0/14.6
R1041	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	51.0/15.5
R1042	7030015970	S.RES	RMC1/16S-103JTH (10 k)	B	33.5/16.7
R1043	7030016560	S.RES	RMC1/16SJPTH	T	46.0/73.2
R1044	7030016560	S.RES	RMC1/16SJPTH	T	46.0/74.2
R1045	7030019310	S.RES	RMC1/8-271JTP (270)	T	63.1/62.4
R1046	7030019310	S.RES	RMC1/8-271JTP (270)	T	61.0/58.3
R1047	7030019310	S.RES	RMC1/8-271JTP (270)	T	63.1/57.5
C101	4030022160	S.CER	GRM033B31A104KE84D	B	29.9/49.3
C102	4030025370	S.CER	GRM033R61C104KE14D	B	25.0/44.0
C103	4030024420	S.CER	GRM0332C1H180JA01D	B	27.2/52.1
C104	4030020450	S.CER	C1005 JB 0J 475M-T	T	22.1/50.0
C105	4030025370	S.CER	GRM033R61C104KE14D	T	18.5/11.1
C106	4030025370	S.CER	GRM033R61C104KE14D	B	5.1/39.2
C107	4030025370	S.CER	GRM033R61C104KE14D	B	31.6/85.8
C108	4030020450	S.CER	C1005 JB 0J 475M-T	T	26.7/42.8
C109	4030025370	S.CER	GRM033R61C104KE14D	B	23.2/49.3
C110	4030025370	S.CER	GRM033R61C104KE14D	B	70.3/88.0
C111	4030025370	S.CER	GRM033R61C104KE14D	T	29.4/42.8
C112	4030025370	S.CER	GRM033R61C104KE14D	T	27.5/42.7
C113	4030025370	S.CER	GRM033R61C104KE14D	T	27.6/44.5
C114	4030025370	S.CER	GRM033R61C104KE14D	T	30.1/48.6
C115	4030025370	S.CER	GRM033R61C104KE14D	T	61.6/27.5
C116	4030020120	S.CER	C1005 JB 0J 225M-T	T	25.0/40.8
C117	4030020120	S.CER	C1005 JB 0J 225M-T	T	28.9/43.9
C118	4030024420	S.CER	GRM0332C1H180JA01D	B	27.2/50.8
C121	4030025460	S.CER	C1608 JB 1A 106KT	B	58.6/31.6
C122	4030022160	S.CER	GRM033B31A104KE84D	B	48.1/35.1
C123	4030022160	S.CER	GRM033B31A104KE84D	B	48.1/32.0
C124	4030022160	S.CER	GRM033B31A104KE84D	B	48.0/32.9
C125	4030022160	S.CER	GRM033B31A104KE84D	B	57.6/32.8
C126	4030022160	S.CER	GRM033B31A104KE84D	B	57.6/31.0
C127	4030022160	S.CER	GRM033B31A104KE84D	B	48.0/34.2
C128	4030025460	S.CER	C1608 JB 1A 106KT	B	58.8/47.0
C129	4030022160	S.CER	GRM033B31A104KE84D	B	47.9/50.6
C130	4030022160	S.CER	GRM033B31A104KE84D	B	47.9/49.6
C131	4030022160	S.CER	GRM033B31A104KE84D	B	57.6/48.5
C132	4030022160	S.CER	GRM033B31A104KE84D	B	48.0/47.5
C133	4030022160	S.CER	GRM033B31A104KE84D	B	48.0/48.5
C134	4030022160	S.CER	GRM033B31A104KE84D	B	57.6/46.5
C135	4030025370	S.CER	GRM033R61C104KE14D	B	47.9/49.0
C137	4030022150	S.CER	GRM033B31E103KA12D	T	29.9/22.8
C138	4030023820	S.CER	0603B104K250CT	T	37.8/18.2
Eqv.	4030026170	S.CER	MG18B104K250CT		
C142	4030022140	S.CER	GRM033B31H102KA12D	B	24.7/49.3
C143	4030022150	S.CER	GRM033B31E103KA12D	B	24.7/52.5
C144	4030025370	S.CER	GRM033R61C104KE14D	B	22.5/51.1
C161	4030023760	S.CER	0603N680J500CT	T	4.7/70.7
C204	4030022260	S.CER	GRM033R60J105MEA2D	T	20.1/52.9
C205	4030022160	S.CER	GRM033B31A104KE84D	T	23.9/52.9
C206	4030021990	S.CER	GRM31CR60J107KE39L	T	24.6/54.3
C207	4030022140	S.CER	GRM033B31H102KA12D	T	10.7/56.6
C208	4030022140	S.CER	GRM033B31H102KA12D	T	11.9/58.6
C209	4030022140	S.CER	GRM033B31H102KA12D	T	14.0/54.4
C210	4030022140	S.CER	GRM033B31H102KA12D	T	16.0/52.9
C211	4030022160	S.CER	GRM033B31A104KE84D	T	16.0/52.0
C212	4030022090	S.CER	GRM0332C1H330JA01D	T	16.8/81.0
C215	4030021990	S.CER	GRM31CR60J107KE39L	T	19.5/54.3
C216	4030022750	S.CER	0402N221J500CT	T	40.2/47.8
C217	4030022100	S.CER	GRM0332C1H100JA01D	T	42.4/85.4

[MAIN-A UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C221	4030022140	S.CER GRM033B31H102KA12D	T	40.6/66.5
C222	4030022140	S.CER GRM033B31H102KA12D	T	43.8/67.5
C223	4030022140	S.CER GRM033B31H102KA12D	T	21.9/80.7
C224	4030022140	S.CER GRM033B31H102KA12D	T	23.6/82.7
C225	4030022140	S.CER GRM033B31H102KA12D	T	40.5/67.6
C241	4030023820	S.CER 0603B104K2500CT	T	19.0/15.7
Eqv.	4030026170	S.CER MG18B104K2500CT		
C260	4030025420	S.CER GRM033R61A105ME15D	B	29.3/76.5
C261	4030025370	S.CER GRM033R61C104KE14D	B	30.8/77.6
C262	4030025420	S.CER GRM033R61A105ME15D	B	30.3/77.9
C263	4030025420	S.CER GRM033R61A105ME15D	B	31.8/77.5
C301	4030025370	S.CER GRM033R61C104KE14D	T	37.2/17.2
C302	4030025370	S.CER GRM033R61C104KE14D	T	37.8/11.9
C303	4030025370	S.CER GRM033R61C104KE14D	T	62.0/25.8
C401	4030024900	S.CER GRM033R61A224KE90D	B	19.7/19.1
C402	4030025460	S.CER C1608 JB 1A 106KT	B	20.6/13.6
C403	4030024530	S.CER C1608 JB 1C 225M-T	B	19.4/16.2
C404	4030025460	S.CER C1608 JB 1A 106KT	B	21.8/13.6
C405	4030025420	S.CER GRM033R61A105ME15D	B	21.4/15.2
C406	4030025460	S.CER C1608 JB 1A 106KT	B	17.1/18.7
C407	4030025460	S.CER C1608 JB 1A 106KT	B	18.4/18.7
C408	4030025370	S.CER GRM033R61C104KE14D	B	25.0/13.4
C409	4030025370	S.CER GRM033R61C104KE14D	B	17.8/15.9
C410	4030025460	S.CER C1608 JB 1A 106KT	B	26.2/22.2
C411	4030025460	S.CER C1608 JB 1A 106KT	B	18.6/21.3
C412	4030018910	S.CER C1608 JB 0J 475K-T	B	19.2/22.5
C413	4030018910	S.CER C1608 JB 0J 475K-T	B	21.9/22.6
C414	4030022260	S.CER GRM033R60J105MEA2D	B	19.5/20.4
C415	4030022160	S.CER GRM033B31A104KE84D	B	19.7/23.8
C416	4030022260	S.CER GRM033R60J105MEA2D	B	21.0/22.9
C417	4030025460	S.CER C1608 JB 1A 106KT	B	23.1/14.5
C418	4030022160	S.CER GRM033B31A104KE84D	B	14.4/25.3
C421	4030022140	S.CER GRM033B31H102KA12D	B	17.9/27.6
C422	4030022640	S.CER 0402N101J500CT	B	32.0/26.2
Eqv.	4030026140	S.CER MG15N101J500CT		
C423	4030022160	S.CER GRM033B31A104KE84D	B	32.8/26.2
C424	4030022150	S.CER GRM033B31E103KA12D	B	34.6/26.3
C425	4030022150	S.CER GRM033B31E103KA12D	B	37.0/26.1
C426	4030022100	S.CER GRM0332C1H100JA01D	B	35.9/26.1
C427	4030022160	S.CER GRM033B31A104KE84D	B	37.6/25.1
C428	4030022160	S.CER GRM033B31A104KE84D	B	33.7/26.0
C430	4030022160	S.CER GRM033B31A104KE84D	B	33.0/23.4
C431	4030022140	S.CER GRM033B31H102KA12D	B	30.5/21.6
C451	4030025370	S.CER GRM033R61C104KE14D	B	76.1/79.8
C452	4030025370	S.CER GRM033R61C104KE14D	B	67.4/86.6
C453	4030022640	S.CER 0402N101J500CT	B	55.5/94.4
Eqv.	4030026140	S.CER MG15N101J500CT		
C454	4030025370	S.CER GRM033R61C104KE14D	B	60.0/82.5
C455	4030025370	S.CER GRM033R61C104KE14D	B	59.5/87.4
C456	4030025370	S.CER GRM033R61C104KE14D	B	54.3/93.3
C457	4030025370	S.CER GRM033R61C104KE14D	B	48.0/91.4
C458	4030025370	S.CER GRM033R61C104KE14D	B	51.5/92.7
C459	4030025420	S.CER GRM033R61A105ME15D	B	47.7/92.3
C460	4030020120	S.CER C1005 JB 0J 225M-T	B	46.9/92.4
C463	4030021580	S.CER GRM188B31E225KA12D	B	82.8/78.8
C464	4030025370	S.CER GRM033R61C104KE14D	B	48.6/87.1
C466	4030025370	S.CER GRM033R61C104KE14D	B	52.8/85.8
C467	4030024900	S.CER GRM033R61A224KE90D	B	66.8/83.3
C470	4030025370	S.CER GRM033R61C104KE14D	B	69.1/82.1
C471	4030025370	S.CER GRM033R61C104KE14D	B	58.3/86.4
C481	4030021580	S.CER GRM188B31E225KA12D	B	82.8/77.6
C482	4030022150	S.CER GRM033B31E103KA12D	B	49.2/87.5
C503	4030022150	S.CER GRM033B31E103KA12D	B	53.9/74.6
C504	4030025420	S.CER GRM033R61A105ME15D	T	54.2/9.0
C507	4030025370	S.CER GRM033R61C104KE14D	T	29.3/10.0
C509	4030023870	S.CER 0603B104K500CT	B	58.6/78.1
Eqv.	4030026160	S.CER MG18B104K500CT		
C510	4510009940	S.ELE EEEFK1E471GP	T	53.7/69.1
C511	4510009940	S.ELE EEEFK1E471GP	T	70.3/43.6
C512	4030025420	S.CER GRM033R61A105ME15D	T	67.5/58.6
C513	4030024900	S.CER GRM033R61A224KE90D	B	49.5/20.0
C514	4030025370	S.CER GRM033R61C104KE14D	B	66.5/55.0
C516	4030025320	S.CER GRM0332C1H151JA01D	B	14.8/10.1
C518	4030025810	S.CER GRM033B31H471KA12D	B	15.3/8.1
C519	4030025370	S.CER GRM033R61C104KE14D	B	13.5/13.2
C520	4030025370	S.CER GRM033R61C104KE14D	B	15.4/8.7
C521	4030025810	S.CER GRM033B31H471KA12D	B	11.5/8.7
C523	4030025370	S.CER GRM033R61C104KE14D	B	12.7/8.2
C525	4030022150	S.CER GRM033B31E103KA12D	B	65.6/50.7
C526	4030025710	S.CER GRM033R71E562KE14D	B	51.7/20.0
C527	4030025370	S.CER GRM033R61C104KE14D	T	49.5/8.3
C536	4030025370	S.CER GRM033R61C104KE14D	B	60.8/16.6
C537	4030025420	S.CER GRM033R61A105ME15D	B	57.6/15.0
C538	4030025370	S.CER GRM033R61C104KE14D	B	51.7/18.8
C551	4030025370	S.CER GRM033R61C104KE14D	T	51.8/26.2
C552	4030025370	S.CER GRM033R61C104KE14D	T	60.4/26.9
C553	4030025370	S.CER GRM033R61C104KE14D	T	60.4/28.2
C554	4030025370	S.CER GRM033R61C104KE14D	T	29.3/11.6
C555	4030025370	S.CER GRM033R61C104KE14D	T	28.4/10.0
C556	4030025370	S.CER GRM033R61C104KE14D	T	57.3/25.0
C557	4030025370	S.CER GRM033R61C104KE14D	T	57.5/31.5
C558	4030025420	S.CER GRM033R61A105ME15D	B	8.0/18.3
C559	4030022160	S.CER GRM033B31A104KE84D	B	7.1/16.6
C591	4030025370	S.CER GRM033R61C104KE14D	T	46.8/7.4
C592	4030025370	S.CER GRM033R61C104KE14D	T	46.8/8.1
C593	4030025370	S.CER GRM033R61C104KE14D	T	25.2/8.6
C601	4030022260	S.CER GRM033R60J105MEA2D	B	4.5/26.7
C602	4030025370	S.CER GRM033R61C104KE14D	B	7.0/26.8
C605	4030025460	S.CER C1608 JB 1A 106KT	B	1.9/26.9
C606	4030022160	S.CER GRM033B31A104KE84D	T	12.7/18.2
C607	4030022640	S.CER 0402N101J500CT	T	8.8/18.9
Eqv.	4030026140	S.CER MG15N101J500CT		
C608	4030025420	S.CER GRM033R61A105ME15D	T	10.7/15.5
C609	4030025420	S.CER GRM033R61A105ME15D	T	10.2/20.3
C610	4030022260	S.CER GRM033R60J105MEA2D	B	7.0/31.1

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

[MAIN-A UNIT]

REF NO.	PART NO.		DESCRIPTION	M.	H/V LOCATION
C611	4030022260	S.CER	GRM033R60J105MEA2D	B	8.9/29.9
C612	4030025420	S.CER	GRM033R61A105ME15D	T	16.4/41.0
C613	4030022160	S.CER	GRM033B31A104KE84D	T	18.1/32.6
C614	4030025290	S.CER	GRM0332C1H150JA01D	T	9.1/21.3
C615	4030022640	S.CER	0402N101J500CT	T	16.4/45.4
Eqv.	4030026140	S.CER	MG15N101J500CT		
C616	4030025420	S.CER	GRM033R61A105ME15D	T	11.3/22.2
C617	4030022640	S.CER	0402N101J500CT	T	13.9/47.9
Eqv.	4030026140	S.CER	MG15N101J500CT		
C618	4030022140	S.CER	GRM033B31H102KA12D	T	18.6/34.4
C619	4030022140	S.CER	GRM033B31H102KA12D	T	17.3/37.2
C620	4030025420	S.CER	GRM033R61A105ME15D	T	10.8/23.2
C621	4030022140	S.CER	GRM033B31H102KA12D	T	17.3/36.3
C622	4030022140	S.CER	GRM033B31H102KA12D	T	18.8/38.4
C624	4030022070	S.CER	GRM0333C1H3R0BA01D	T	0.7/43.4
C625	4030022070	S.CER	GRM0333C1H3R0BA01D	T	2.3/41.6
C626	4030025420	S.CER	GRM033R61A105ME15D	T	1.3/43.4
C627	4030025420	S.CER	GRM033R61A105ME15D	T	1.7/41.6
C630	4030022140	S.CER	GRM033B31H102KA12D	B	9.9/44.0
C631	4030022140	S.CER	GRM033B31H102KA12D	B	3.2/29.5
C632	4030022140	S.CER	GRM033B31H102KA12D	B	3.2/34.0
C633	4030022140	S.CER	GRM033B31H102KA12D	B	3.6/35.7
C634	4030025420	S.CER	GRM033R61A105ME15D	B	8.7/42.0
C635	4030025420	S.CER	GRM033R61A105ME15D	B	7.6/45.3
C636	4030022140	S.CER	GRM033B31H102KA12D	B	3.8/31.0
C637	4030022140	S.CER	GRM033B31H102KA12D	B	5.4/37.5
C638	4030022140	S.CER	GRM033B31H102KA12D	B	9.0/37.9
C639	4030022140	S.CER	GRM033B31H102KA12D	B	7.5/39.8
C706	4030025370	S.CER	GRM033R61C104KE14D	B	43.8/17.7
C707	4030025460	S.CER	C1608 JB 1A 106KT	B	44.9/17.8
C708	4030025460	S.CER	C1608 JB 1A 106KT	B	42.7/18.4
C709	4030024530	S.CER	C1608 JB 1C 225M-T	B	47.3/14.7
C710	4030024530	S.CER	C1608 JB 1C 225M-T	B	47.3/13.5
C711	4030024530	S.CER	C1608 JB 1C 225M-T	B	47.3/12.3
C712	4030024530	S.CER	C1608 JB 1C 225M-T	B	46.5/11.1
C713	4030024530	S.CER	C1608 JB 1C 225M-T	B	35.3/15.9
C714	4030024530	S.CER	C1608 JB 1C 225M-T	B	35.3/14.7
C715	4030024530	S.CER	C1608 JB 1C 225M-T	B	35.3/13.5
C716	4030024530	S.CER	C1608 JB 1C 225M-T	B	35.3/12.3
C727	4030025420	S.CER	GRM033R61A105ME15D	B	31.0/15.4
C728	4030025420	S.CER	GRM033R61A105ME15D	B	36.3/17.8
C729	4030025370	S.CER	GRM033R61C104KE14D	B	34.3/19.9
C731	4030025420	S.CER	GRM033R61A105ME15D	B	15.4/12.8
C751	4030025370	S.CER	GRM033R61C104KE14D	B	12.8/16.4
C752	4030024530	S.CER	C1608 JB 1C 225M-T	B	9.0/15.5
C753	4030025410	S.CER	GRM188B31E105KAADD	B	11.0/14.5
Eqv.	4030019120	S.CER	GRM188B31E105KA75D		
Eqv.	4030025230	S.CER	TMK107B105KAHT		
C754	4030026030	S.CER	GRM033R71E392KE14D	B	10.9/19.0
C755	4030025370	S.CER	GRM033R61C104KE14D	B	13.1/24.0
C758	4030022260	S.CER	GRM033R60J105MEA2D	T	16.8/19.1
C759	4030025370	S.CER	GRM033R61C104KE14D	T	16.0/19.1
C760	4030025460	S.CER	C1608 JB 1A 106KT	T	18.6/19.6
C761	4030022260	S.CER	GRM033R60J105MEA2D	T	16.9/17.4
C762	4030022260	S.CER	GRM033R60J105MEA2D	T	16.7/22.9
C763	4030026010	S.CER	GRM033R71E182KA12D	T	12.5/20.9
C764	4030022260	S.CER	GRM033R60J105MEA2D	T	14.3/19.4
C765	4030022260	S.CER	GRM033R60J105MEA2D	T	14.3/18.1
C766	4030022100	S.CER	GRM0332C1H100JA01D	T	14.5/23.3
C801	4030021520	S.CER	GRM31CB31H106KA12L	B	98.4/26.8
C802	4510010570	S.ELE	16 CE 470 LX	T	85.7/22.1
C803	4030022140	S.CER	GRM033B31H102KA12D	T	90.2/26.3
C804	4030021480	S.CER	C2012 JB 1E 226MT	T	87.9/28.1
C805	4030025810	S.CER	GRM033B31H471KA12D	T	89.5/26.3
C806	4030021520	S.CER	GRM31CB31H106KA12L	B	91.4/19.7
C807	4510010570	S.ELE	16 CE 470 LX	T	85.9/12.0
C808	4030022140	S.CER	GRM033B31H102KA12D	T	88.0/17.1
C809	4030021480	S.CER	C2012 JB 1E 226MT	T	89.9/17.4
C810	4030025810	S.CER	GRM033B31H471KA12D	T	88.6/17.1
C811	4030022140	S.CER	GRM033B31H102KA12D	T	17.1/24.7
C812	4030025420	S.CER	GRM033R61A105ME15D	T	16.3/27.2
C813	4030025420	S.CER	GRM033R61A105ME15D	T	19.7/25.7
C817	4030019550	S.CER	C1608 JB 1E 334K-T	B	76.6/14.6
C818	4550008220	S.TAN	F931C106MAA	B	71.1/15.3
C819	4030023870	S.CER	0603B104K500CT	B	72.8/4.8
Eqv.	4030026160	S.CER	MG18B104K500CT		
C820	4030025360	S.CER	GRM0332C1H181JA01D	B	74.3/7.5
C821	4030019560	S.CER	GRM21BB31C106KE15L	B	79.8/31.0
C822	4030023870	S.CER	0603B104K500CT	B	83.1/31.0
Eqv.	4030026160	S.CER	MG18B104K500CT		
C823	4030019560	S.CER	GRM21BB31C106KE15L	B	81.6/31.1
C824	4030023820	S.CER	0603B104K250CT	B	76.1/32.4
Eqv.	4030026170	S.CER	MG18B104K250CT		
C825	4030020190	S.CER	GRM32EB31C476KE15L	B	85.7/37.6
C826	4030018620	S.CER	C1608 CH 1H 222J-T	B	93.0/36.7
C827	4030023820	S.CER	0603B104K250CT	B	92.2/30.8
Eqv.	4030026170	S.CER	MG18B104K250CT		
C831	4030019560	S.CER	GRM21BB31C106KE15L	B	88.7/24.8
C832	4030023870	S.CER	0603B104K500CT	B	88.3/17.4
Eqv.	4030026160	S.CER	MG18B104K500CT		
C833	4030019560	S.CER	GRM21BB31C106KE15L	B	88.5/15.7
C835	4030020190	S.CER	GRM32EB31C476KE15L	B	87.6/10.4
C837	4030023820	S.CER	0603B104K250CT	B	86.6/12.8
Eqv.	4030026170	S.CER	MG18B104K250CT		
Eqv.	4030024290	S.CER	0805B103K500CT	T	48.1/95.1
C852	4050000370	S.FEE	YFF31HC2A105MT00	T	46.8/91.8
C853	4510010140	S.ELE	35 CE 330 LX	T	53.6/88.7
C854	4510010140	S.ELE	35 CE 330 LX	T	99.3/59.0
C855	4030021520	S.CER	GRM31CB31H106KA12L	T	101.6/51.8
C856	4550007170	S.TAN	F930J685MAABMA	B	78.7/58.1
C857	4030025370	S.CER	GRM033R61C104KE14D	B	89.6/62.2
C858	4030022640	S.CER	0402N101J500CT	B	88.3/61.1
Eqv.	4030026140	S.CER	MG15N101J500CT		
C859	4030022640	S.CER	0402N101J500CT	B	91.5/61.1
Eqv.	4030026140	S.CER	MG15N101J500CT		

[MAIN-A UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C860	4030022150	S.CER GRM033B31E103KA12D	B	87.1/57.6
C861	4030022640	S.CER 0402N101J500CT	B	87.6/56.4
Eqv.	4030026140	S.CER MG15N101J500CT		
C862	4030025370	S.CER GRM033R61C104KE14D	B	92.7/52.2
C863	4030023870	S.CER 0603B104K500CT	B	98.6/53.7
Eqv.	4030026160	S.CER MG18B104K500CT		
C864	4510009940	S.ELE EEEFK1E471GP	T	87.6/39.8
C865	4030023870	S.CER 0603B104K500CT	B	88.0/52.2
Eqv.	4030026160	S.CER MG18B104K500CT		
C866	4030023870	S.CER 0603B104K500CT	T	90.7/47.2
Eqv.	4030026160	S.CER MG18B104K500CT		
C867	4030023870	S.CER 0603B104K500CT	T	86.6/64.1
Eqv.	4030026160	S.CER MG18B104K500CT		
C868	4030025460	S.CER C1608 JB 1A 106KT	B	99.4/66.4
C869	4030022150	S.CER GRM033B31E103KA12D	B	96.5/72.3
C870	4030025460	S.CER C1608 JB 1A 106KT	B	96.7/71.3
C871	4030025370	S.CER GRM033R61C104KE14D	B	86.2/75.5
C872	4030025370	S.CER GRM033R61C104KE14D	B	91.4/63.2
C873	4030025370	S.CER GRM033R61C104KE14D	B	94.6/73.5
C874	4030025420	S.CER GRM033R61A105ME15D	T	22.3/30.2
C875	4030019560	S.CER GRM21BB31C106KE15L	T	21.0/30.0
C876	4030019560	S.CER GRM21BB31C106KE15L	T	25.3/26.3
C877	4030022160	S.CER GRM033B31A104KE84D	T	26.4/27.6
C901	4030025370	S.CER GRM033R61C104KE14D	B	57.8/103.6
C951	4030022160	S.CER GRM033B31A104KE84D	B	11.2/80.3
C952	4030022160	S.CER GRM033B31A104KE84D	B	16.4/87.5
C953	4030022160	S.CER GRM033B31A104KE84D	B	18.0/86.8
C954	4030019560	S.CER GRM21BB31C106KE15L	B	19.0/88.5
C955	4030022160	S.CER GRM033B31A104KE84D	B	16.5/86.9
C956	4030022160	S.CER GRM033B31A104KE84D	B	18.3/89.8
C957	4030019560	S.CER GRM21BB31C106KE15L	B	19.4/91.1
C958	4030022090	S.CER GRM0332C1H330JA01D	B	13.7/90.5
C959	4030022090	S.CER GRM0332C1H330JA01D	B	11.4/90.5
C962	4030022160	S.CER GRM033B31A104KE84D	B	20.6/85.2
C963	4030022640	S.CER 0402N101J500CT	B	19.7/85.4
Eqv.	4030026140	S.CER MG15N101J500CT		
C964	4030022160	S.CER GRM033B31A104KE84D	B	23.2/84.3
C965	4030022640	S.CER 0402N101J500CT	B	22.4/84.5
Eqv.	4030026140	S.CER MG15N101J500CT		
C966	4030022090	S.CER GRM0332C1H330JA01D	B	20.9/80.3
C967	4030022160	S.CER GRM033B31A104KE84D	B	9.3/81.7
C968	4030022160	S.CER GRM033B31A104KE84D	B	19.1/80.8
C971	4030022140	S.CER GRM033B31H102KA12D	B	24.3/88.5
C972	4030022140	S.CER GRM033B31H102KA12D	B	27.8/88.0
C973	4030022160	S.CER GRM033B31A104KE84D	B	17.4/90.5
C974	4030022160	S.CER GRM033B31A104KE84D	T	15.5/93.9
C975	4030022160	S.CER GRM033B31A104KE84D	T	12.5/93.9
C976	4030022170	S.CER GR442QR73D102KW01L	T	20.8/101.7
C977	4030019560	S.CER GRM21BB31C106KE15L	B	8.5/79.6
C978	4030022160	S.CER GRM033B31A104KE84D	B	10.9/87.5
C979	4030022120	S.CER GRM0332C1H470JA01D	T	57.4/11.6
C980	4030022120	S.CER GRM0332C1H470JA01D	T	63.9/10.0
C981	4030022120	S.CER GRM0332C1H470JA01D	T	65.2/11.0
C982	4030022120	S.CER GRM0332C1H470JA01D	T	66.5/11.0
C983	4030022120	S.CER GRM0332C1H470JA01D	T	67.8/10.0
C984	4030022120	S.CER GRM0332C1H470JA01D	T	59.2/11.2
C985	4030022120	S.CER GRM0332C1H470JA01D	T	60.2/11.7
C986	4030022120	S.CER GRM0332C1H470JA01D	T	60.5/10.8
C987	4030022120	S.CER GRM0332C1H470JA01D	T	55.4/20.9
C988	4510010140	S.ELE 35 CE 330 LX	T	93.9/98.3
C989	4510010140	S.ELE 35 CE 330 LX	T	53.6/101.4
C990	4030024290	S.CER 0805B103K500CT	B	95.0/93.2
C991	4030024290	S.CER 0805B103K500CT	T	63.7/101.6
C992	4030025370	S.CER GRM033R61C104KE14D	T	34.5/26.6
C993	4030022260	S.CER GRM033R60J105MEA2D	T	34.5/27.4
C994	4510011340	S.ELE CPH3225A	T	35.7/29.4
C995	4030023200	S.CER 0402B471K500CT	T	71.4/59.0
C996	4030024020	S.CER 0603B393K500CT	T	71.8/58.0
C997	4510010160	S.ELE EEEFKJ331XAP	T	68.1/54.3
C998	4050000370	S.FEE YFF31HC2A105MT00	T	44.3/85.8
C999	4030022140	S.CER GRM033B31H102KA12D	T	43.6/88.8
C1000	4030022140	S.CER GRM033B31H102KA12D	T	41.8/85.4
C1002	4030022150	S.CER GRM033B31E103KA12D	B	15.0/14.4
C1003	4030022150	S.CER GRM033B31E103KA12D	B	14.3/13.1
C1004	4050000370	S.FEE YFF31HC2A105MT00	B	66.8/3.7
C1009	4030025810	S.CER GRM033B31H471KA12D	T	39.8/10.4
C1010	4030025810	S.CER GRM033B31H471KA12D	T	38.6/10.3
C1011	4030025810	S.CER GRM033B31H471KA12D	T	37.4/10.2
C1012	4030025810	S.CER GRM033B31H471KA12D	T	36.2/10.5
C1013	4030025810	S.CER GRM033B31H471KA12D	T	35.0/10.6
C1014	4030025810	S.CER GRM033B31H471KA12D	T	33.8/10.2
J151	6510023092	S.CON 20FLT-SM2-TB (LF) (SN) (M)	T	7.2/65.6
J201	6510032350	S.CON 20279-001E-01	T	38.1/89.6
J202	6510032350	S.CON 20279-001E-01	T	32.2/85.4
J203	6510032350	S.CON 20279-001E-01	T	48.0/60.1
J253	6510032631	S.CON SIMMP-N0601B010-D	B	19.6/67.9
J254	6510032631	S.CON SIMMP-N0601B010-D	B	33.4/67.9
J501	6510027400	S.CON 50FHY-RSM1-GAN-TF (LF) (SN)	T	33.3/4.0
J502	6510032990	S.CON BM30B-SRDS-A-G-TFC (LF) (SN)	T	61.4/15.9
J503	6510019371	S.CON B3B-ZR-SM4-TF (LF) (SN)	T	54.2/79.2
J601	6510030950	S.CON MM8030-2610RJ3	T	7.2/22.3
J604	6510032350	S.CON 20279-001E-01	T	3.7/20.5
J951	6510027140	S.CON BM08B-SRSS-TBT (LF) (SN)	T	16.6/97.4
DS951	5040003590	S.LED SML-D12P8WT86	B	26.3/85.9
DS952	5040003590	S.LED SML-D12P8WT86	B	23.9/86.9
S501	2260003060	S.SWI NANOSMDC016F-2	T	72.3/11.7
T951	5910001180	S.TRA ATPL-361R	B	17.0/98.0

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

[MAIN-A UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
EP101	6910018460	S.BEA MMZ1005Y102C-T	B	31.3/49.8
EP401	6910018460	S.BEA MMZ1005Y102C-T	B	15.2/24.8
EP402	6910025230	S.BEA BLM15BD221SN1D	B	18.7/27.6
EP501	6910017350	S.BEA MMZ1608S601A-T	T	24.2/9.5
EP502	6910017350	S.BEA MMZ1608S601A-T	T	14.7/11.0
EP503	6910017350	S.BEA MMZ1608S601A-T	T	60.5/8.9
EP601	6910023920	S.BEA BLM15GA750SN1D	T	16.4/43.7
EP602	6910023920	S.BEA BLM15GA750SN1D	T	13.9/48.8
EP603	6910023920	S.BEA BLM15GA750SN1D	T	0.8/41.5
EP801	6910019100	S.BEA MPZ1608S101AT	B	79.3/18.3
EP802	6910019100	S.BEA MPZ1608S101AT	B	79.3/21.0
EP803	6910019100	S.BEA MPZ1608S101AT	B	79.3/19.6
EP804	6910019100	S.BEA MPZ1608S101AT	B	79.3/16.9
EP805	6910019100	S.BEA MPZ1608S101AT	B	79.3/22.4
EP821	6910019100	S.BEA MPZ1608S101AT	B	78.3/30.9
EP831	6910019100	S.BEA MPZ1608S101AT	B	85.7/24.7
EP871	6910018460	S.BEA MMZ1005Y102C-T	T	18.8/30.3
EP873	6910024560	S.BEA MMZ1608Y300BT	T	19.9/7.5
EP874	6910024560	S.BEA MMZ1608Y300BT	T	44.3/7.7
EP875	6910012350	S.BEA MMZ1608Y102BT	T	37.4/8.3
EP876	6910012350	S.BEA MMZ1608Y102BT	T	38.6/8.5
EP877	6910012350	S.BEA MMZ1608Y102BT	T	39.8/8.5
EP878	6910012350	S.BEA MMZ1608Y102BT	T	41.2/11.2
EP879	6910012350	S.BEA MMZ1608Y102BT	T	41.4/8.5
EP880	6910012350	S.BEA MMZ1608Y102BT	T	33.8/8.3
EP881	6910012350	S.BEA MMZ1608Y102BT	T	35.0/8.7
EP882	6910012350	S.BEA MMZ1608Y102BT	T	36.2/8.7
EP883	6910018460	S.BEA MMZ1005Y102C-T	B	25.2/37.5
EP884	6910018460	S.BEA MMZ1005Y102C-T	B	26.4/36.0

M.= Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
H/V LOCATION=See the BOARD LAYOUTS for details.

[FRONT-C UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
Q3	1590004090	S.TRA LDTCL114YET1G	B	72.5/6.6
Q4	1590004090	S.TRA LDTCL114YET1G	B	13.4/17.5
Q5	1590004090	S.TRA LDTCL114YET1G	B	6.0/19.5
Q6	1590004090	S.TRA LDTCL114YET1G	B	6.0/17.5
Q7	1520001010	S.TRA 2SB1132G-R-AB3-R	B	83.0/14.7
Q8	1590003800	S.TRA KTC811U-GR-RTK/P	B	84.1/9.2
Q10	1590004090	S.TRA LDTCL114YET1G	B	14.9/20.0
D1	1790002170	S.VAR LXES15AAA1-133	T	23.5/16.4
D2	1790002170	S.VAR LXES15AAA1-133	T	23.5/6.9
D3	1790002170	S.VAR LXES15AAA1-133	T	87.7/15.1
D4	1790002170	S.VAR LXES15AAA1-133	T	87.8/6.9
R3	7030016560	S.RES RMC1/16SJPTH	B	35.0/10.8
R4	7030016560	S.RES RMC1/16SJPTH	B	35.0/6.1
R5	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	37.4/8.0
R6	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	38.9/7.4
R7	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	40.5/6.8
R9	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	35.9/7.5
R11	7030016560	S.RES RMC1/16SJPTH	B	37.6/9.5
R13	7030016480	S.RES RMC1/16S-821JTH (820)	B	9.3/20.8
R14	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	B	10.2/20.8
R15	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	35.0/8.9
R16	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	B	11.1/20.8
R17	7030016050	S.RES RMC1/16S-102JTH (1 k)	B	87.5/17.1
R18	7030016360	S.RES RMC1/16S-123JTH (12 k)	B	87.5/18.0
R19	7030016360	S.RES RMC1/16S-123JTH (12 k)	B	86.0/14.5
R20	7030016560	S.RES RMC1/16SJPTH	B	35.0/12.9
R21	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	85.9/8.0
R27	7030016050	S.RES RMC1/16S-102JTH (1 k)	B	82.3/10.0
R28	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	82.4/7.7
R29	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	83.3/6.8
R30	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	B	15.0/17.5
R31	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	B	7.6/19.6
R32	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	B	7.6/17.5
R33	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	B	71.1/6.9
R39	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	B	16.5/20.1
R40	7030016480	S.RES RMC1/16S-821JTH (820)	B	12.6/20.8
R41	7030016360	S.RES RMC1/16S-123JTH (12 k)	B	85.8/18.0
R42	7030016360	S.RES RMC1/16S-123JTH (12 k)	B	86.6/16.2
R51	7030016420	S.RES RMC1/16S-182JTH (1.8 k)	T	31.1/7.4
R52	7030016420	S.RES RMC1/16S-182JTH (1.8 k)	T	30.2/7.3
R53	7030016420	S.RES RMC1/16S-182JTH (1.8 k)	T	80.2/13.9
R54	7030016420	S.RES RMC1/16S-182JTH (1.8 k)	T	81.2/13.5
C5	4030022150	S.CER GRM033B31E103KA12D	B	38.5/9.0
C6	4030025410	S.CER GRM188B31E105KAADD	B	65.9/1.9
Eqv.	4030019120	S.CER GRM188B31E105KA75D		
Eqv.	4030025230	S.CER TMK107BJ105KAHT		
C7	4030025410	S.CER GRM188B31E105KAADD	B	66.6/3.1
Eqv.	4030019120	S.CER GRM188B31E105KA75D		
Eqv.	4030025230	S.CER TMK107BJ105KAHT		
C8	4030025410	S.CER GRM188B31E105KAADD	B	67.0/4.3
Eqv.	4030019120	S.CER GRM188B31E105KA75D		
Eqv.	4030025230	S.CER TMK107BJ105KAHT		
C9	4030025410	S.CER GRM188B31E105KAADD	B	66.5/5.5
Eqv.	4030019120	S.CER GRM188B31E105KA75D		
Eqv.	4030025230	S.CER TMK107BJ105KAHT		
C10	4030025410	S.CER GRM188B31E105KAADD	B	67.0/6.7
Eqv.	4030019120	S.CER GRM188B31E105KA75D		
Eqv.	4030025230	S.CER TMK107BJ105KAHT		
C11	4030019620	S.CER GRM188B31C225KE14D	B	64.0/7.0
C12	4030019620	S.CER GRM188B31C225KE14D	B	36.2/15.2
C13	4030019620	S.CER GRM188B31C225KE14D	B	38.3/14.8
C14	4030019620	S.CER GRM188B31C225KE14D	B	36.2/14.0
C24	4030022150	S.CER GRM033B31E103KA12D	B	79.9/12.5
J1	6510029350	S.CON 30P4.0-JMCS-G-B-TF (N)	B	76.2/11.8
J2	6510029010	S.CON 20FHSY-RSM1-GAN-TB (LF) (SN)	B	55.6/3.2
DS1	5040004390	S.LED NSSW306GT	T	36.5/10.5
DS2	5040003890	S.LED B1931TX-05P-000412	T	26.9/13.3
DS3	5040003890	S.LED B1931TX-05P-000412	T	84.3/8.8
DS4	5040003790	S.LED SML-522MU8WT86	T	3.0/19.6
DS6	5040004390	S.LED NSSW306GT	T	74.7/10.5
DS7	5040003890	S.LED B1931TX-05P-000412	T	26.9/18.3
DS8	5040003890	S.LED B1931TX-05P-000412	T	84.3/3.8
DS9	5040003790	S.LED SML-522MU8WT86	T	12.2/19.6
DS10	5040003890	S.LED B1931TX-05P-000412	T	26.9/8.8
DS11	5040003890	S.LED B1931TX-05P-000412	T	26.9/3.8
DS12	5040003890	S.LED B1931TX-05P-000412	T	84.3/18.3
DS13	5040003890	S.LED B1931TX-05P-000412	T	84.3/13.3
DS101	5030004540	LCD 882BH01042		
S1	2230001110	S.SWI SKRSPACE010	T	26.9/15.8
S2	2230001110	S.SWI SKRSPACE010	T	26.9/6.3
S3	2230001110	S.SWI SKRSPACE010	T	84.3/15.8
S4	2230001110	S.SWI SKRSPACE010	T	84.3/6.3

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

M.= Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
H/V LOCATION=See the BOARD LAYOUTS for details.

[FRONT-D UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
IC100	1130007421	S.IC TC7W14FU (TE12LF)	T	86.2/4.4
IC101	1130007421	S.IC TC7W14FU (TE12LF)	B	18.2/9.7
D1	1790002170	S.VAR LXES15AAA1-133	B	86.3/15.4
D2	1790002170	S.VAR LXES15AAA1-133	B	93.3/4.4
D3	1790002170	S.VAR LXES15AAA1-133	B	107.6/10.0
D4	1790002170	S.VAR LXES15AAA1-133	B	97.4/4.0
D5	1790002170	S.VAR LXES15AAA1-133	B	99.6/5.2
D7	1790002170	S.VAR LXES15AAA1-133	B	5.5/18.5
D8	1790002170	S.VAR LXES15AAA1-133	B	11.1/18.0
L11	6200011990	S.COI LQP15MN2N2B02D	T	27.7/17.1
L12	6200015590	S.COI LQP15MN6N2B02D	T	26.5/17.6
R1	7030016050	S.RES RMC1/16S-102JTH (1 k)	B	105.0/7.3
R2	7030016050	S.RES RMC1/16S-102JTH (1 k)	B	101.2/5.5
R3	7030016560	S.RES RMC1/16SJPTH	T	44.7/4.4
R4	7030016560	S.RES RMC1/16SJPTH	T	41.9/5.0
R5	7030016560	S.RES RMC1/16SJPTH	T	44.7/5.6
R6	7030016560	S.RES RMC1/16SJPTH	T	41.9/6.2
R7	7030016560	S.RES RMC1/16SJPTH	T	44.7/6.8
R8	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	B	6.5/17.6
R9	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	B	8.8/17.6
R21	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	B	81.3/7.9
R101	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	T	81.4/9.2
R102	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	T	83.0/8.6
R103	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	T	85.4/7.4
R104	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	T	83.0/10.0
R105	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	B	7.4/18.5
R106	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	B	12.1/17.0
R107	7030016560	S.RES RMC1/16SJPTH	B	107.1/10.9
C6	4030025370	S.CER GRM033R61C104KE14D	B	38.0/12.4
C11	4030022700	S.CER 0402N180J500CT	T	28.9/17.6
C101	4030024900	S.CER GRM033R61A224KE90D	T	87.0/9.6
C102	4030024900	S.CER GRM033R61A224KE90D	T	85.7/8.6
C103	4030024900	S.CER GRM033R61A224KE90D	T	86.9/6.7
C104	4030024900	S.CER GRM033R61A224KE90D	T	84.6/11.5
C105	4030024900	S.CER GRM033R61A224KE90D	B	8.4/18.8
C106	4030024900	S.CER GRM033R61A224KE90D	B	13.0/16.9
C110	4030025370	S.CER GRM033R61C104KE14D	T	85.7/2.2
C111	4030025370	S.CER GRM033R61C104KE14D	B	21.4/8.5
J1	6450002210	CON 3017-8821		
J2	6510024151	S.CON 50FY-BMT-TB (LF) (SN)	B	37.5/7.9
J3	6510025121	S.CON 30RF-JMCS-G-1B-TF (N) (LF) (SN)	T	76.0/11.8
J4	6510032350	S.CON 20279-001E-01	B	33.3/17.6
S1	2250000851	ENC RH7NWPHE20A-13F-3594		
S2	2260003180	S.SWI MINISMDC050F-2	B	91.8/8.7
W1	8900016120	CAB OPC-1683 (P0.5N50L80)		
W2	8900012862	CAB OPC-1305B		
EP1	6910017350	S.BEA MMZ1608S601A-T	B	107.1/8.0
EP2	3310004500	S.ANT AH212M245001-T	T	21.1/17.6

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)
H/V LOCATION=See the BOARD LAYOUTS for details.

SECTION 7

MECHANICAL PARTS

[CHASSIS-A UNIT]

REF NO.	PART NO.	DESCRIPTION	QTY.
W1	8920001880	CAB-1210	1
W2	89200003150	CAB-1382	1
W3	89200003160	CAB-1383	1
W5	8920003090	CAB-1376	2
MP1	8210031920	3589 FRONT PANEL (G)	1
MP2	8310093800	3589 WINDOW PLATE (H)	1
MP3	8930089751	3589 WINDOW SHEET-1	1
MP4	8930093860	3589 2-KEY (J)	1
MP5	8930093870	3589 2-KEY (K)	1
MP6	8610014730	KNOB N-418	1
MP8	8930084370	3405 LENS	2
MP9	8830003400	PIPE NUT M6 NI	1
MP10	8930051500	O-RING (AB)	1
MP12	8810009561	PH BT M2×6 NI-ZK3	4
MP13	8010023661	3825 CHASSIS-1	1
MP14	8930089500	3589 FRONT SEAL	1
MP15	8110010570	3589 U-COVER	1
MP16	8110010580	3589 L-COVER	1
MP17	8930089490	3589 MAIN SEAL	2
MP18	8930089690	3589 BUSH PLATE	3
MP20	8930089470	O-RING (CW)	3
MP22	8810008661	PH BT M3×8 NI-ZC3	7
MP23	8810009461	FLAT M3×8 ZK3	8
MP28	8930090310	SPONGE (MY)	2
MP30	8930093730	O-RING (CZ)	3
MP34	8810009511	PH BT M2×4 NI-ZC3 (3.6-4.0)	3
MP37	8930089480	3589 BUSH RUBBER	1

[MAIN-A UNIT]

REF NO.	PART NO.	DESCRIPTION	QTY.
S501*	2260003060	NANOSMDC016F-2	1
T951*	5910001180	ATPL-361R	1
MP1*	8510022870	3825 CPU CASE	1
MP2	8510022810	3825 CPU COVER	1
MP3*	8510022880	3825 SDRAM CASE	1
MP4	8510022820	3825 SDRAM COVER	1
MP5*	8510022890	3825 SHIELD CASE	1

[DISPLAY-C UNIT]

REF NO.	PART NO.	DESCRIPTION	QTY.
DS101	5030004540	882BH01042	1
S1*	2230001110	SKRSPACE010	1
S2*	2230001110	SKRSPACE010	1
S3*	2230001110	SKRSPACE010	1
S4*	2230001110	SKRSPACE010	1
MP1	8930100470	3589 A-LCD HOLDER	1
MP2	8210029840	3589 REFLECTOR	1
MP3	8930089880	3589 WHITE SHEET	1

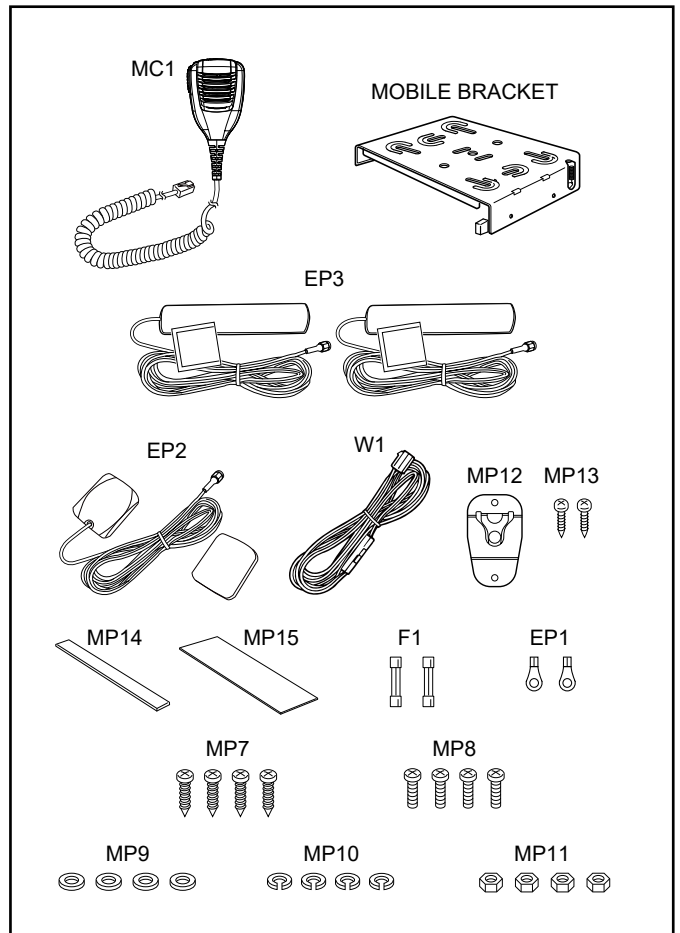
[DISPLAY-D UNIT]

REF NO.	PART NO.	DESCRIPTION	QTY.
J1	6450002210	3017-8821	1
S1	2250000851	RH7NWPBPE20A-13F-3594	1
S2*	2260003180	MINISMDC050F-2	1
W1	8900016120	OPC-1683 (P0.5N50L80)	1
W2	8900012862	OPC-1305B	1
EP2*	3310004500	AH212M245001-T	1
MP1	8930095190	3825 EARTH SPRING	1

[ACCESSORIES]

REF NO.	PART NO.	DESCRIPTION	QTY.
F1	5210000061	FGB 5A PBF (FGB0 125V)	2
MC1	—	HM-241†	1
W1	8900022500	OPC-2414	1
EP1	6510019510	R2-6	2
EP2	0800016040	AA.162.501111.IB	1
EP3	3310005270	TC-821B-3M-RPSMA (M)	2
MP7	8810005841	MOBIL BRACKET (See page 8-2 for details)	1
MP8	8810000471	PH A M5×20 ZC3	4
MP9	8850000150	PH M5×12 (+-) ZC3	4
MP10	8850000391	FLAT WASHER M 5 NI BS	4
MP11	8830000121	S-WASHER M5 ZC3	4
MP12	8950006871	NUT M5 ZC3	4
MP13	8810004700	2917 MIC HANGER-1	1
MP14	8930098090	PH A M3×16 SUS	2
MP15	8930098100	SPONGE (PI)	1
		INSULATION SHEET (OK)	1

† Sold as an option.

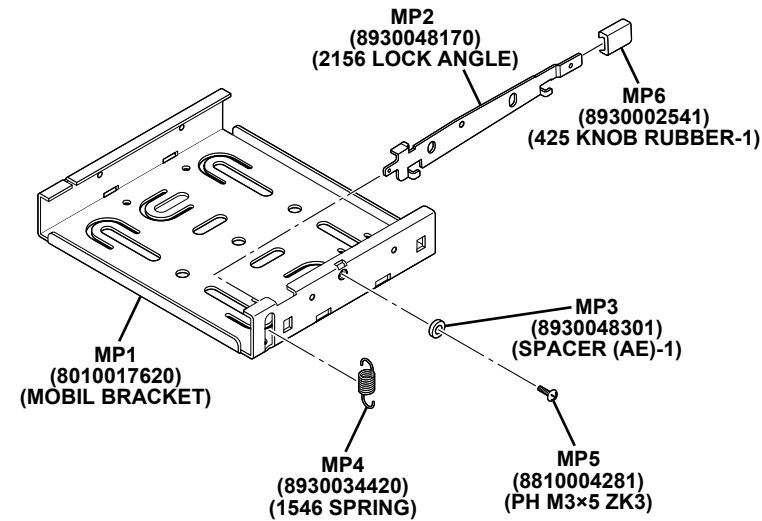


*: Refer to "BOARD LAYOUTS" for the location.

Screw abbreviations A, B0, BT: Self-tapping PH: Pan head BS: Brass NI: Nickel ZU: Zinc SUS: Stainless

Torque: 0.7 N·m (±0.1 N·m)

MOBIL BRACKET ASSEMBLED



MP23 (CHASSIS-A)×4
(8810009461)

MP15 (CHASSIS-A)
(8110010570)

MP17 (CHASSIS-A)
(8930089490)

W2 (FRONT-D)
(8900012862)

MP1 (FRONT-D)
(8930095190)

S1 (FRONT-D)
(2250000851)

MP10 (CHASSIS-A)
(8930051500)

MP4 (CHASSIS-A)
(8930093860)

MP8 (CHASSIS-A)
(8930084370)

MP9 (CHASSIS-A)
(8830003400)

MP6 (CHASSIS-A)
(8610014730)

MP2 (CHASSIS-A)
(8310093800)

MP3 (CHASSIS-A)
(8930089751)

MP1 (CHASSIS-A)
(8210031920)

MP28 (CHASSIS-A)
(8930090310)

MP5 (CHASSIS-A)
(8930093870)

MP3 (FRONT-C)
(8930089880)

MP2 (FRONT-C)
(8210029840)

DS101 (FRONT-C)
(5030004540)

MP1 (FRONT-C)
(8930100470)

MP13 (CHASSIS-A)
(8010023661)

MP14 (CHASSIS-A)
(8930089500)

J1 (FRONT-D)
(6450002210)

W1 (FRONT-D)
(8900016120)

MP2 (MAIN-A)
(8510022810)

MP22 (CHASSIS-A)×7
(8810008661)

MP18 (CHASSIS-A)
(8930089690)

MP30 (CHASSIS-A)
(8930093730)

W5 (CHASSIS-A)
(8920003090)

W1 (CHASSIS-A)
(8920001880)

W3 (CHASSIS-A)
(8920003160)

MP37 (CHASSIS-A)
(8930089480)

W2 (CHASSIS-A)
(8920003150)

W5 (CHASSIS-A)
(8920003090)

Tighten with:
"ICOM Driver (U)" (8960000421)
Torque: 1.5 N·m (±0.15 N·m)

Tighten with:
"ICOM Driver (U)" (8960000421)
Torque: 1.5 N·m (±0.15 N·m)

Legend:
Ref.No. Unit Name
MP1 (CHASSIS)
(1234567890)
Parts No.

MP17 (CHASSIS-A)
(8930089490)

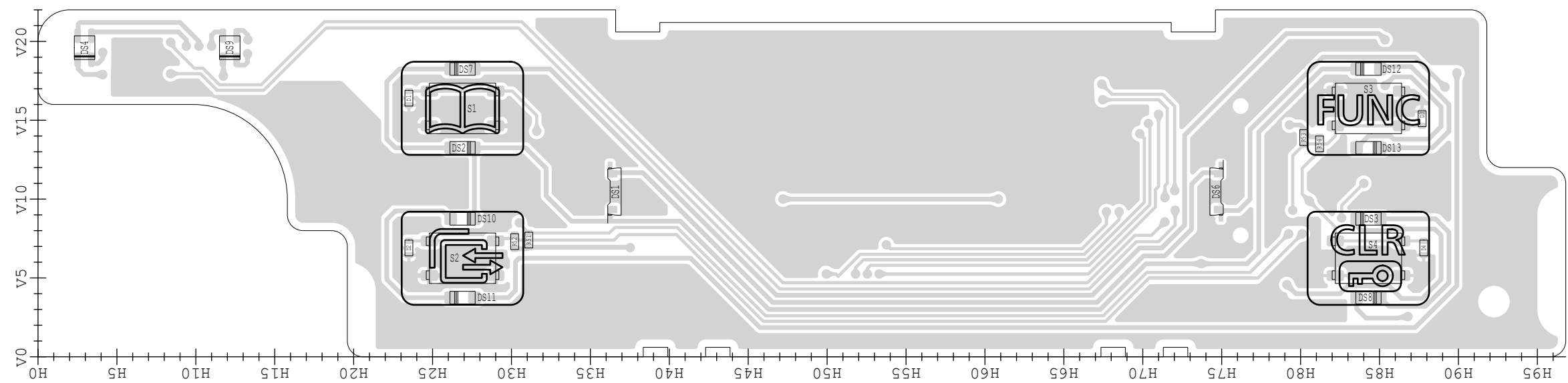
MP16 (CHASSIS-A)
(8110010580)

MP23 (CHASSIS-A)×4
(8810009461)

Torque: 0.7 N·m (±0.1 N·m)

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

• FRONT-C UNIT (B-8944A/B-9169: TOP VIEW)

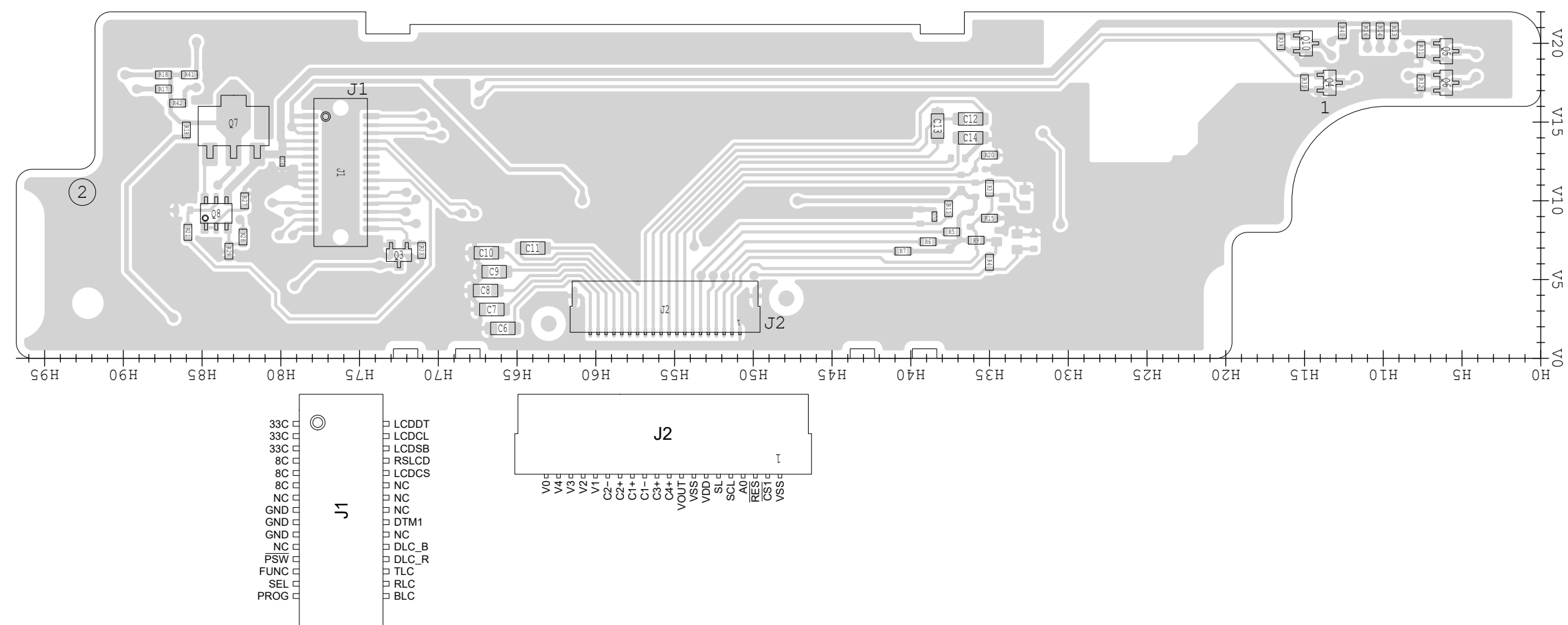


The serial numbers of transceivers used this PCB.

VERSION NUMBER	PCB NUMBER	SERIAL NUMBERS
#31	B-8944A	Future production (Plan: 382531001001 and above)
#41		382541001001~382541001100 and Future production (Plan: 382541001601 and above)
	B-9169	382541001101~382541001600
#51	B-8944A	Future production (Plan: 382551001001 and above)

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

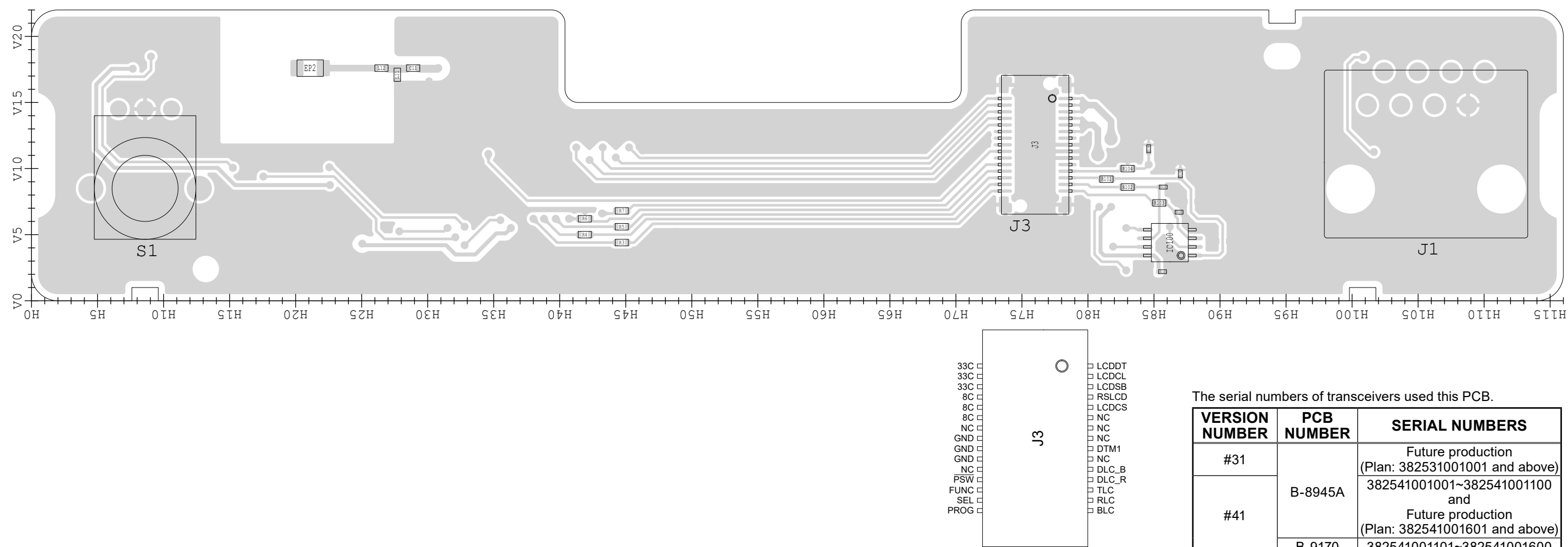
• FRONT-C UNIT (B-8944A/B-9169: BOTTOM VIEW)



See the PARTS LIST H/V location on the PARTS LIST for location details.

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

• FRONT-D UNIT (B-8945A/B-9170: TOP VIEW)

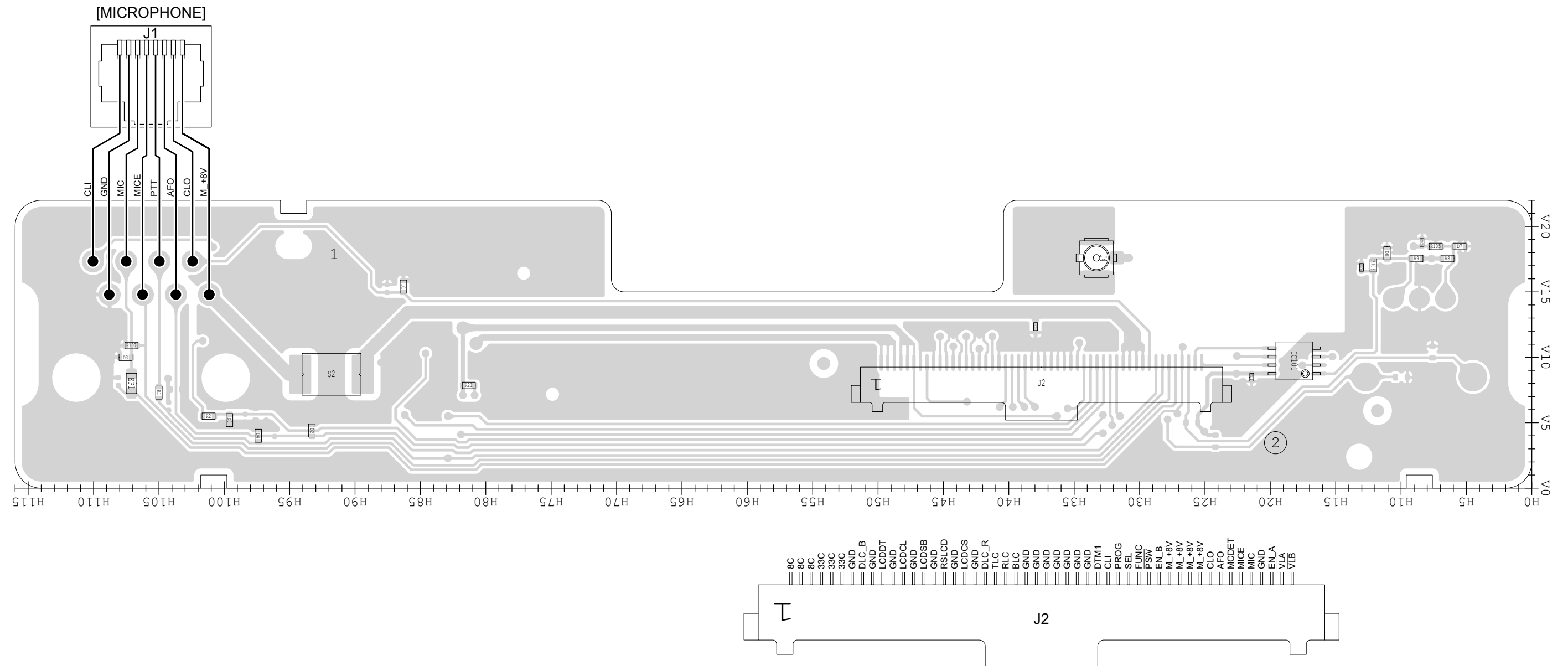


The serial numbers of transceivers used this PCB.

VERSION NUMBER	PCB NUMBER	SERIAL NUMBERS
#31	B-8945A	Future production (Plan: 382531001001 and above)
#41		382541001001~382541001100 and Future production (Plan: 382541001601 and above)
#51	B-9170	382541001101~382541001600
	B-8945A	Future production (Plan: 382551001001 and above)

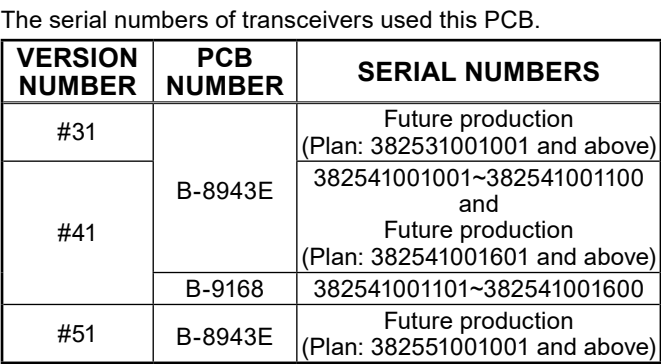
The actual configuration of the PC board can be seen by viewing the top and bottom BOARD LAYOUT pages together.

• FRONT-D UNIT (B-8945A/B-9170: BOTTOM VIEW)



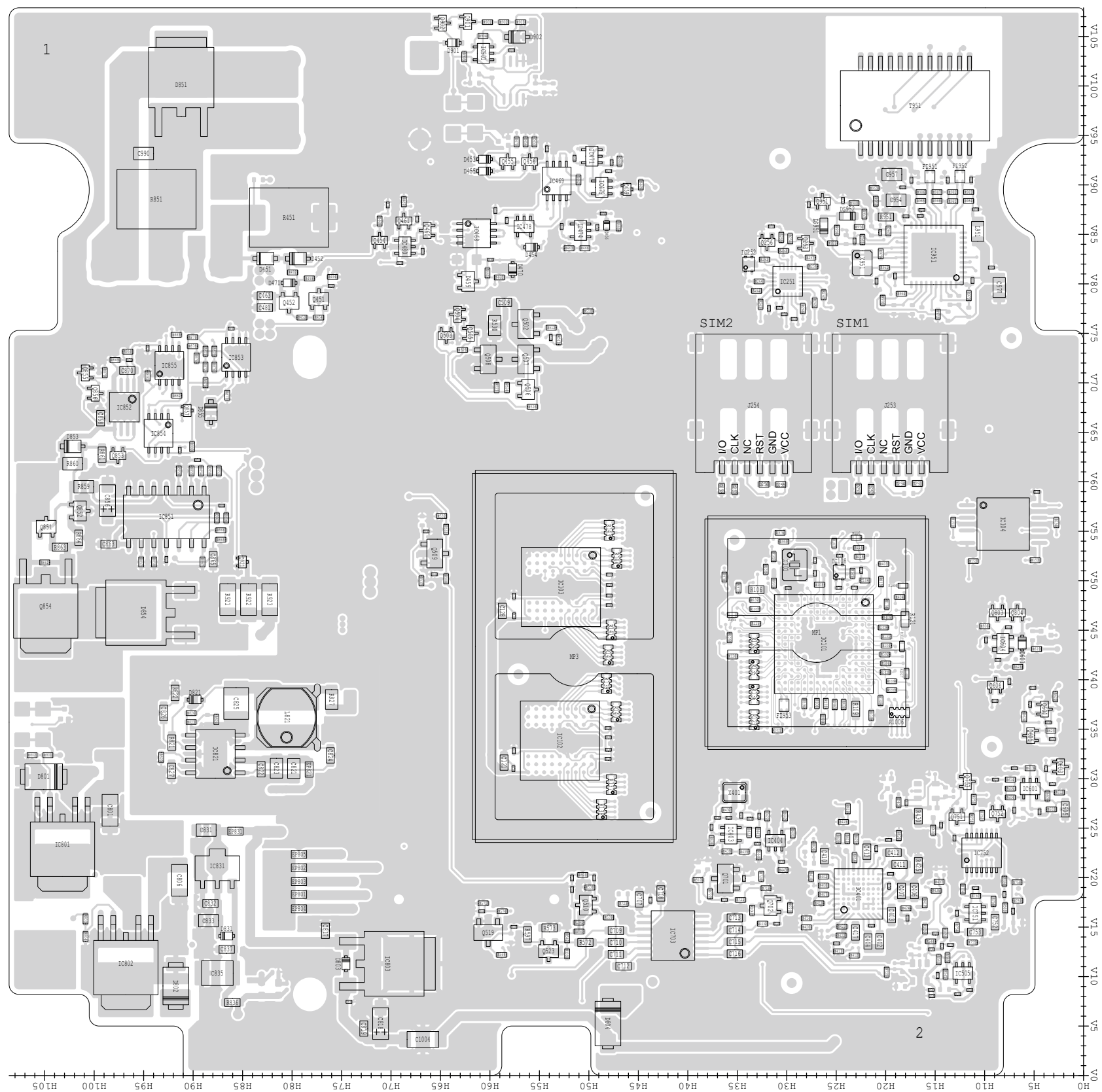
See the PARTS LIST H/V location on the PARTS LIST for location details.

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

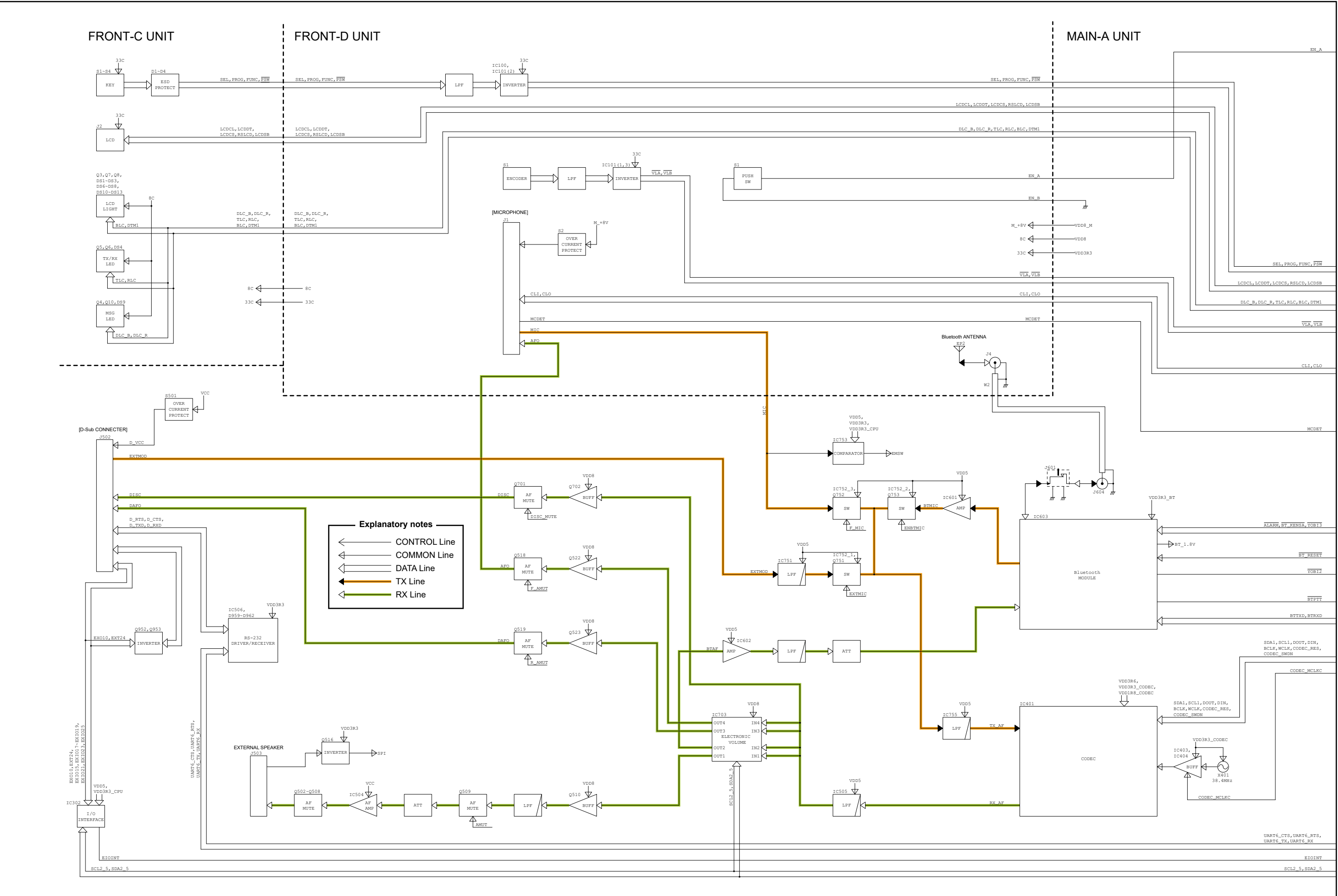


The actual configuration of the PC board can be seen by viewing the top and bottom BOARD LAYOUT pages together.

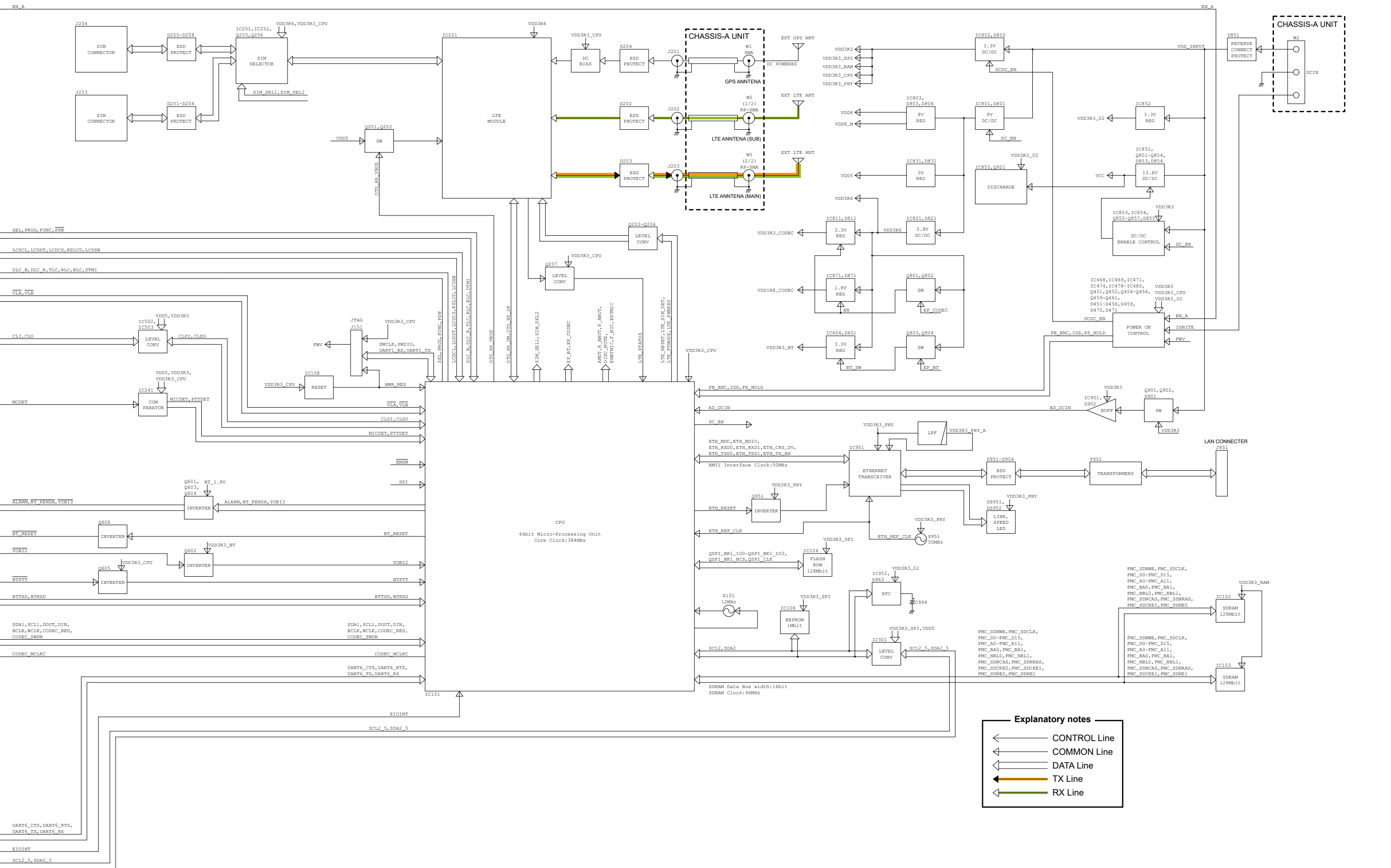
• MAIN-A UNIT (B-8943E/B-9168: BOTTOM VIEW)



See the PARTS LIST H/V location on the PARTS LIST for location details.



MAIN-A UNIT



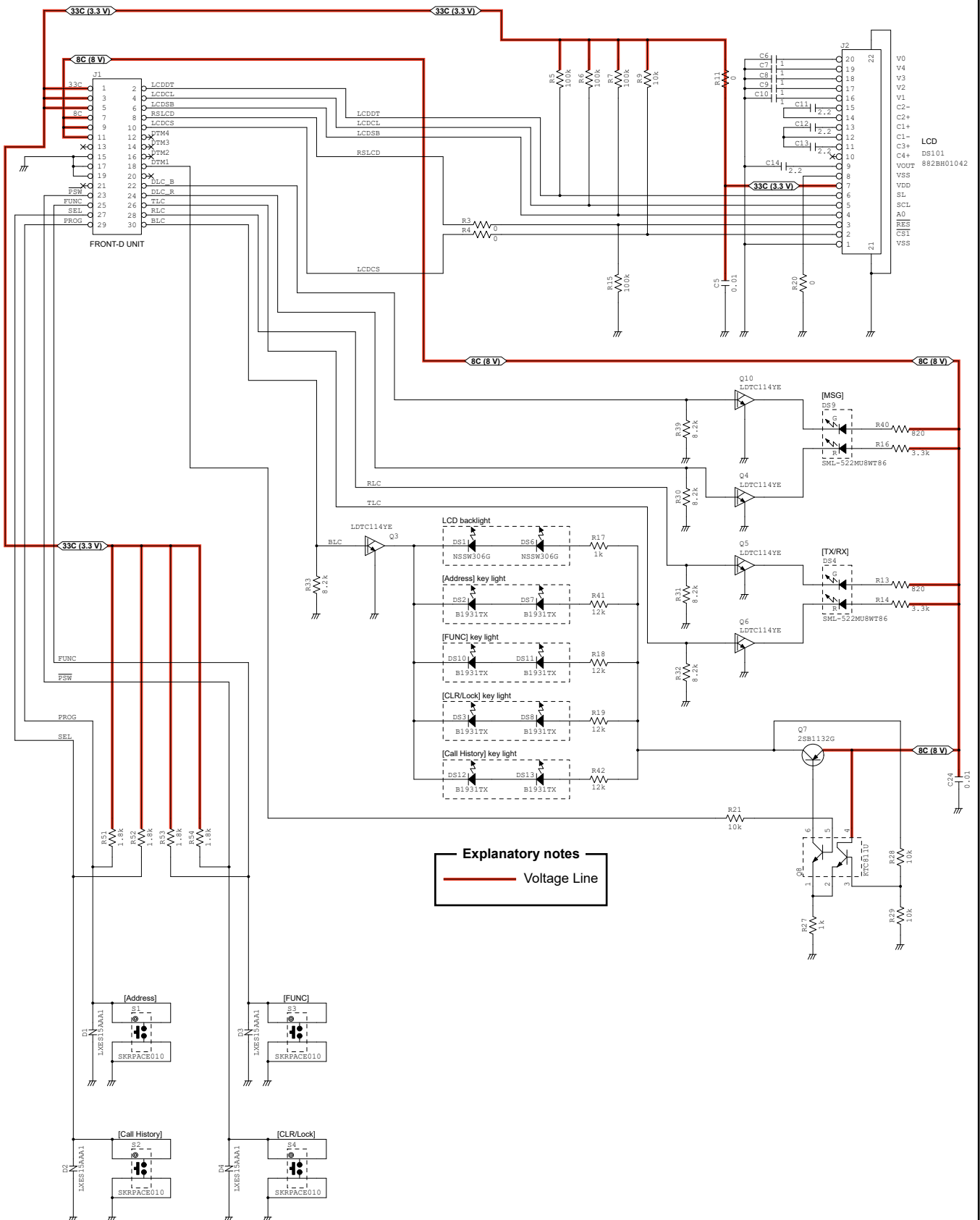
Explanatory notes

- CONTROL Line
- COMMON Line
- DATA Line
- TX Line
- RX Line

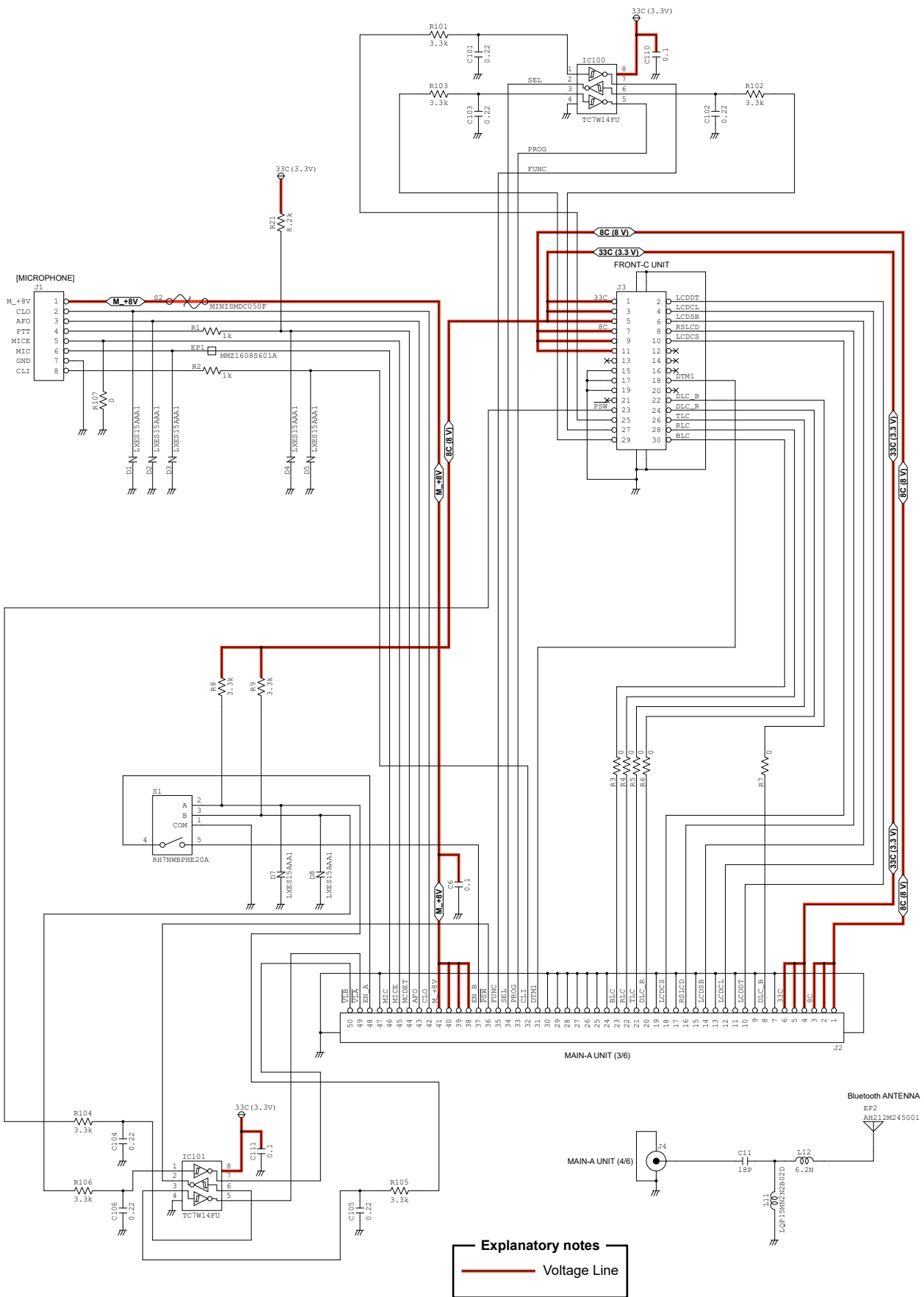
SECTION 10

VOLTAGE DIAGRAM

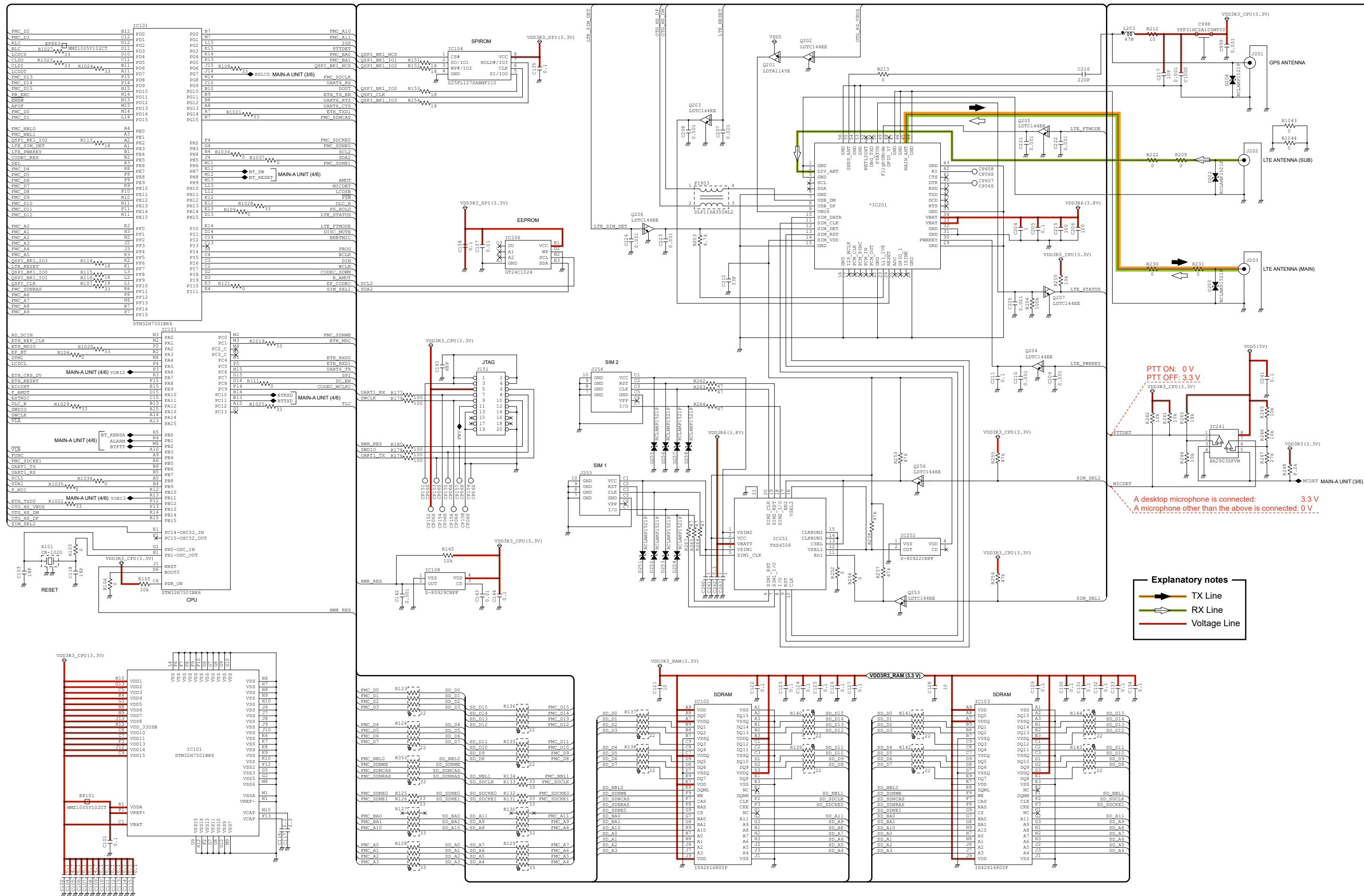
• FRONT-C UNIT



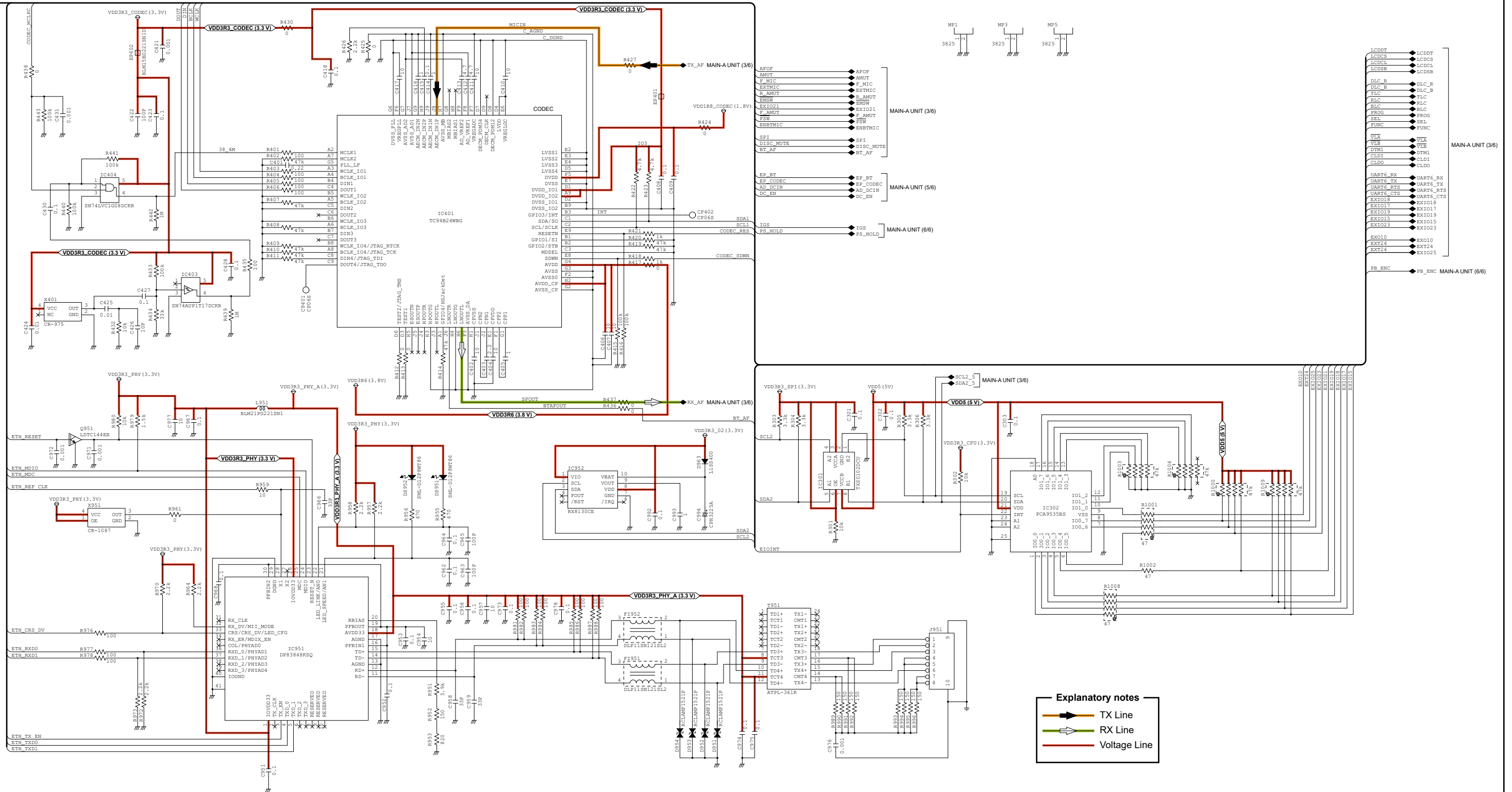
- FRONT-D UNIT

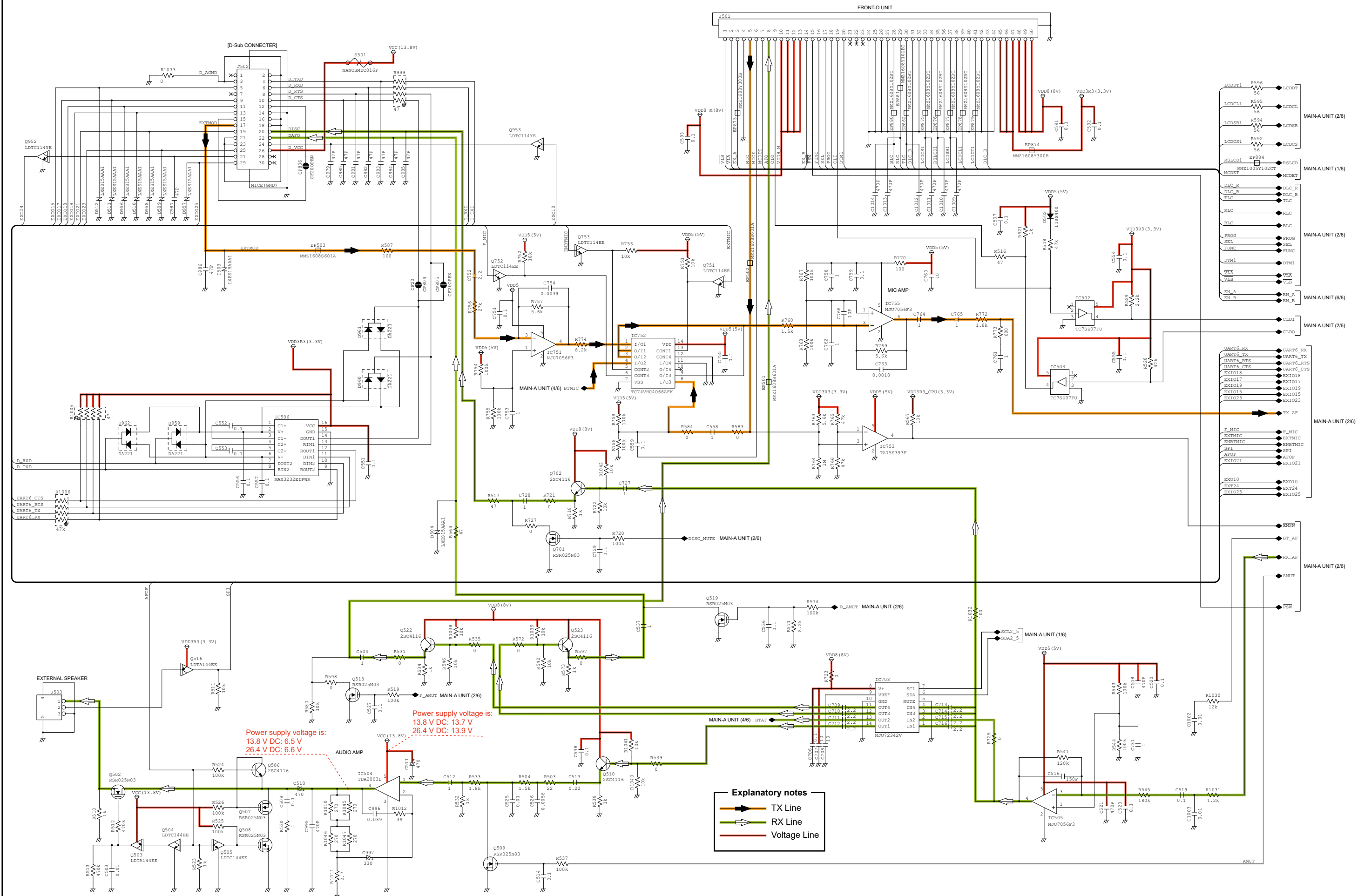


• MAIN-A UNIT (1/6)

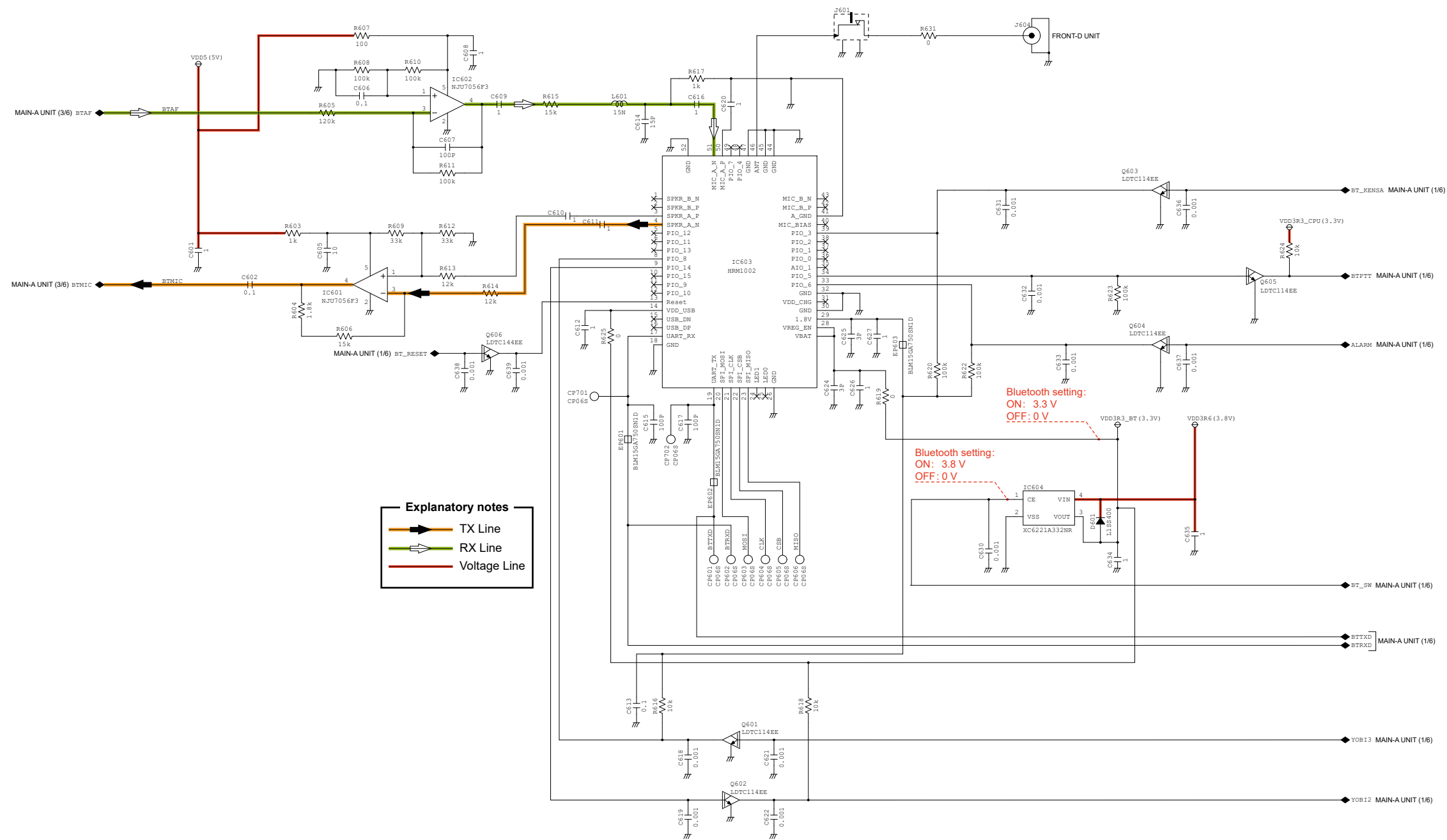


• MAIN-A UNIT (2/6)

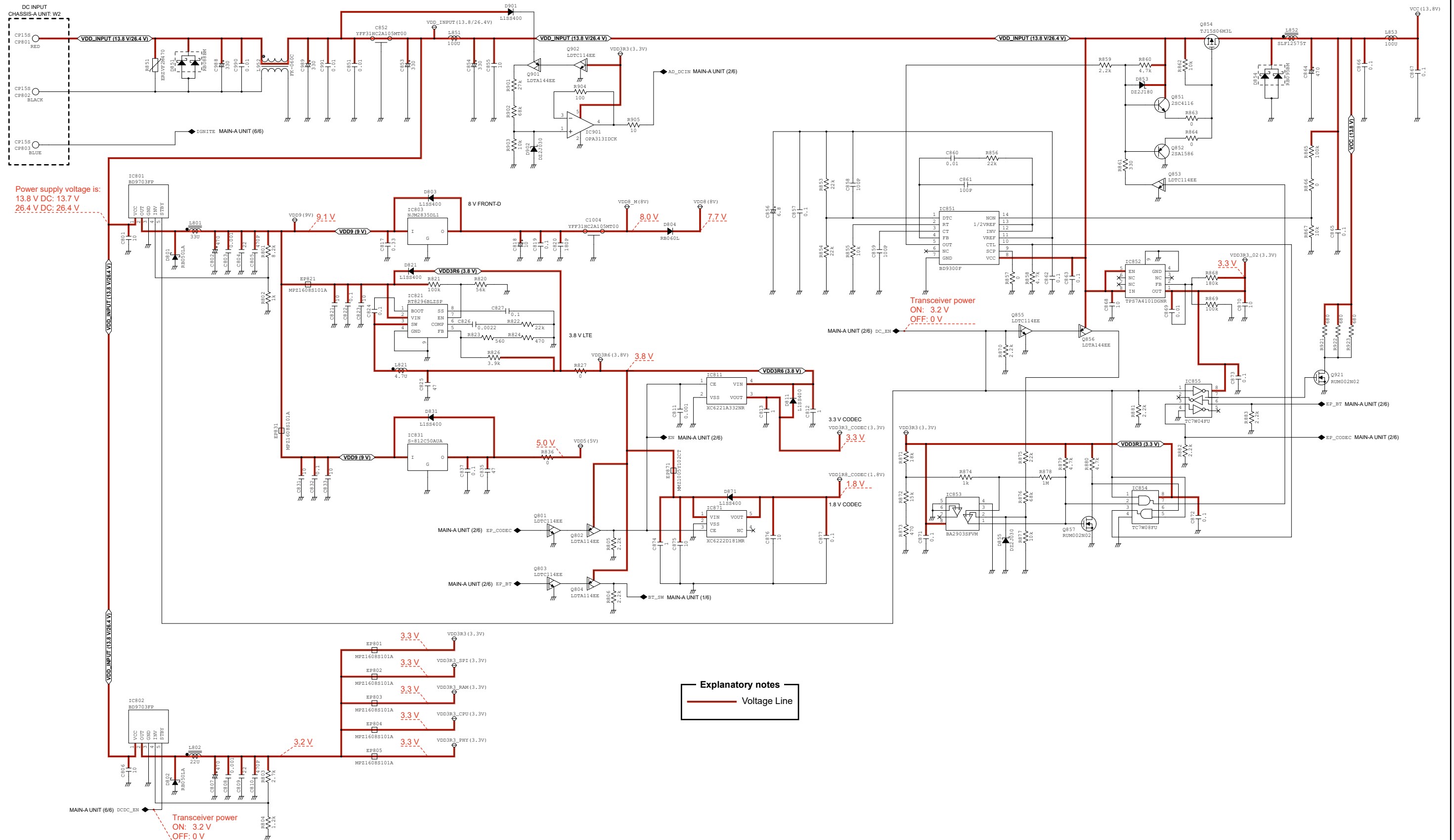




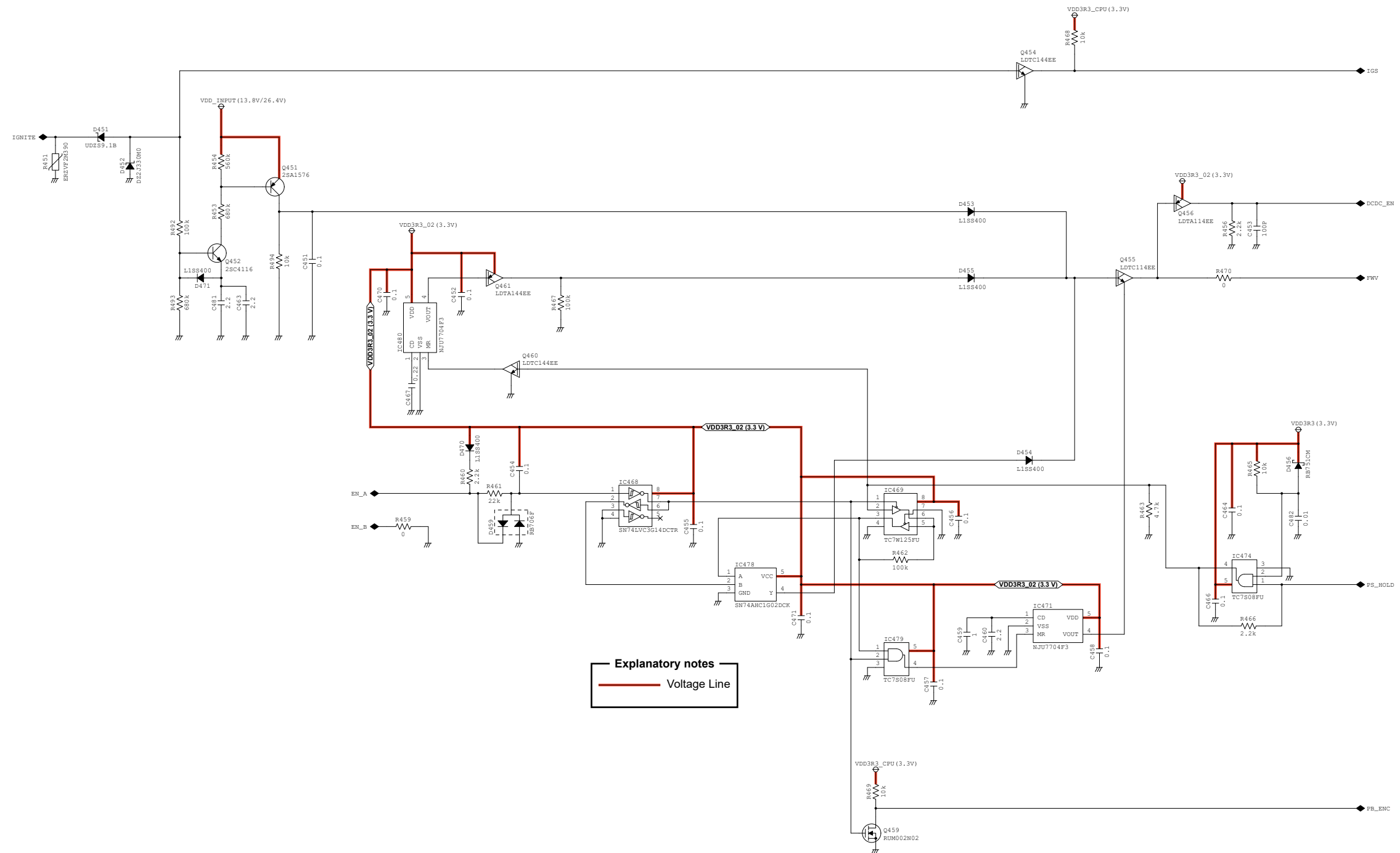
• MAIN-A UNIT (4/6)



- MAIN-A UNIT (5/6)



• MAIN-A UNIT (6/6)



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