

## IC-2300H

**NOTE:** Use these amended pages as one addendum set.

Do not mix them up with the previous master pages.

	Definitions
<b>Replacement page</b>	The page to replace the original one.
<b>Addendum page</b>	The page to be added to the original set.
<b>Amended page</b>	The page to be added as change history, including corrections.

### Page number information

The number of revisions can be easily understood by the addendum service manual's page number.

The number of revisions (a, b, c, ...) is added after the page number.

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## Version List

MODEL	Version Number <sup>†</sup>	Version	Guaranteed Frequency Range (MHz)	Output Power (W) (High/Mid/Mid-L/Low)	Supplied Microphone	Installed Unit			Remarks
						LOGIC	MAIN	MAIN-A	
IC-2300H	#05	USA	144~148	65/25/10/5	HM-133V	✓	✓	-	-
	#06	KOR	144~146	50/25/10/5	HM-133V	✓	✓	-	-
	#10	EXP-01	144~148	65/25/10/5	HM-133V	✓	✓	-	-
	#13	EXP-05	144~148	65/25/10/5	HM-133V	✓	✓	-	-
	#17	THA-03	144~147	60/25/10/5	HM-133V	✓	✓	-	-
	#20	EXP-03	144~148	65/25/10/5	HM-154	✓	✓	-	-
	#36*	KOR-01	144~146	50/25/10/5	HM-133V	✓	-	✓	-
	#40*	EXP-06	144~148	65/25/10/5	HM-133V	✓	-	✓	-
	#43*	EXP-07	144~148	65/25/10/5	HM-133V	✓	-	✓	-
	#47*	THA-04	144~147	60/25/10/5	HM-133V	✓	-	✓	-
#50*	EXP-08	144~148	65/25/10/5	HM-154	✓	-	✓	-	

This addendum service manual provides service information for the versions listed above, excluding out of production versions.

<sup>†</sup>The first two digits of the serial number show its Version Number.

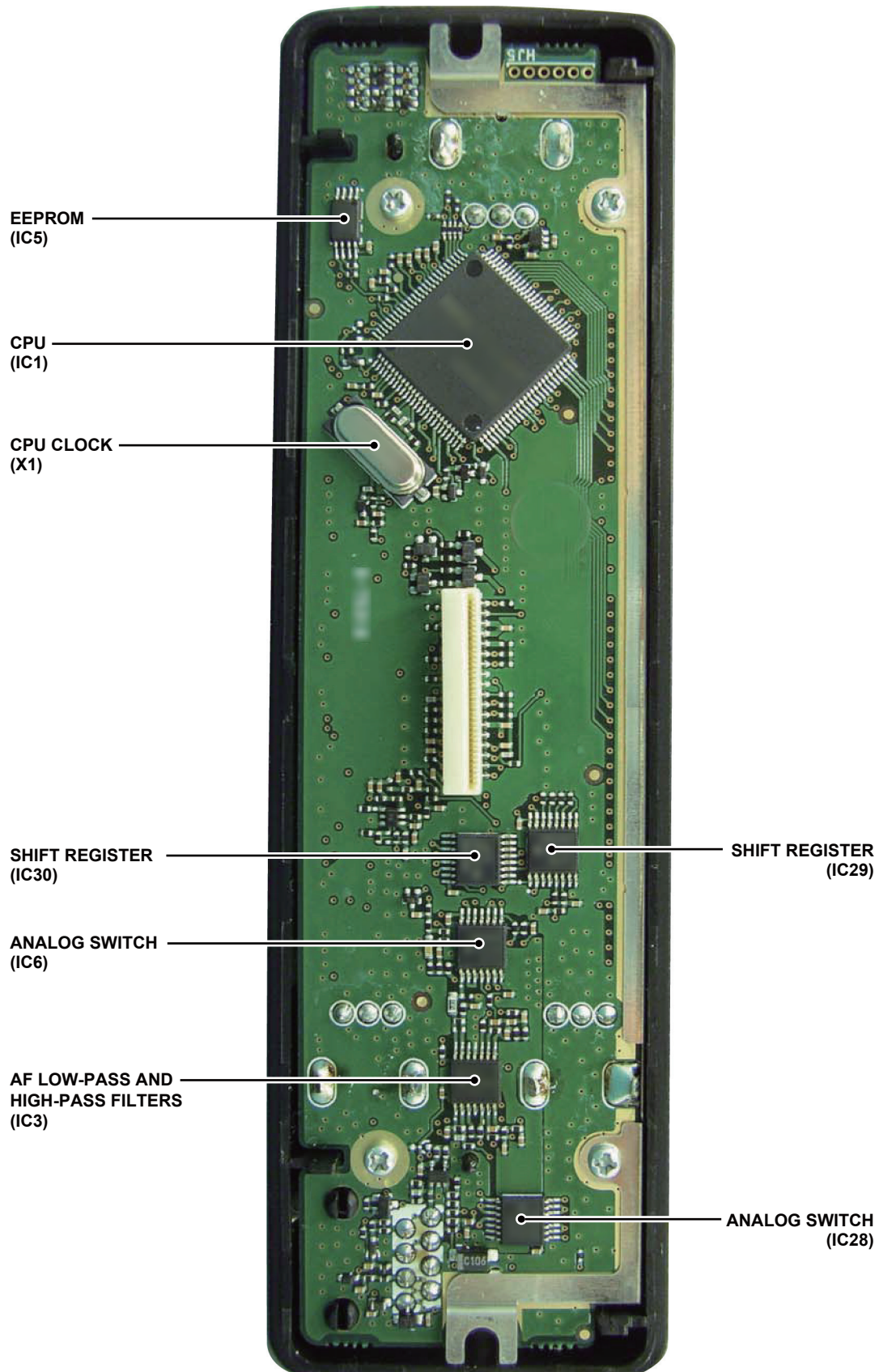
\*Newly added versions.

✓: Applicable

# SECTION 2 INSIDE VIEWS

The underlined parts have been updated from the addendum of the previous version, or from the original page.

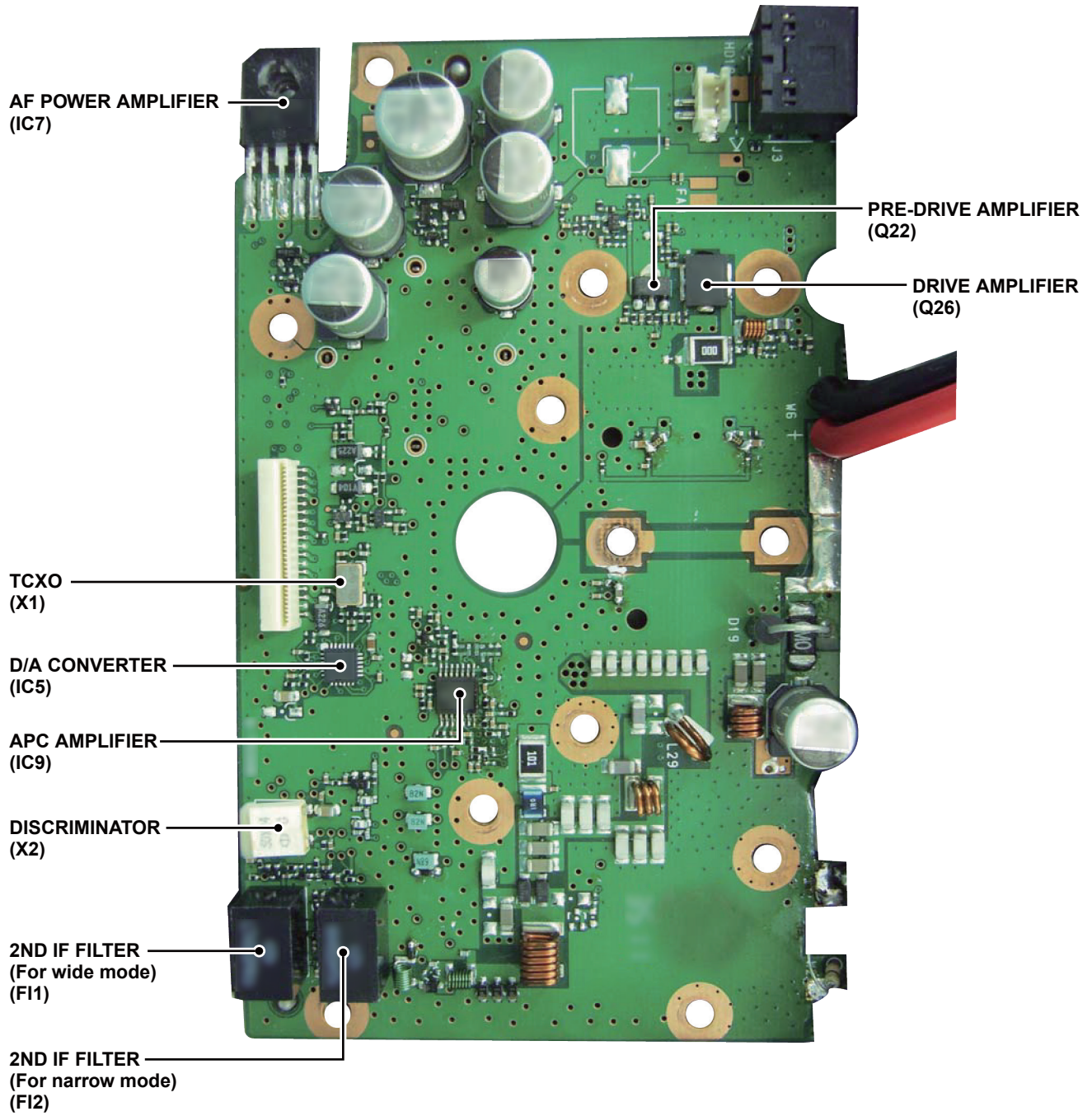
## • LOGIC UNIT



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• MAIN/MAIN-A UNITS

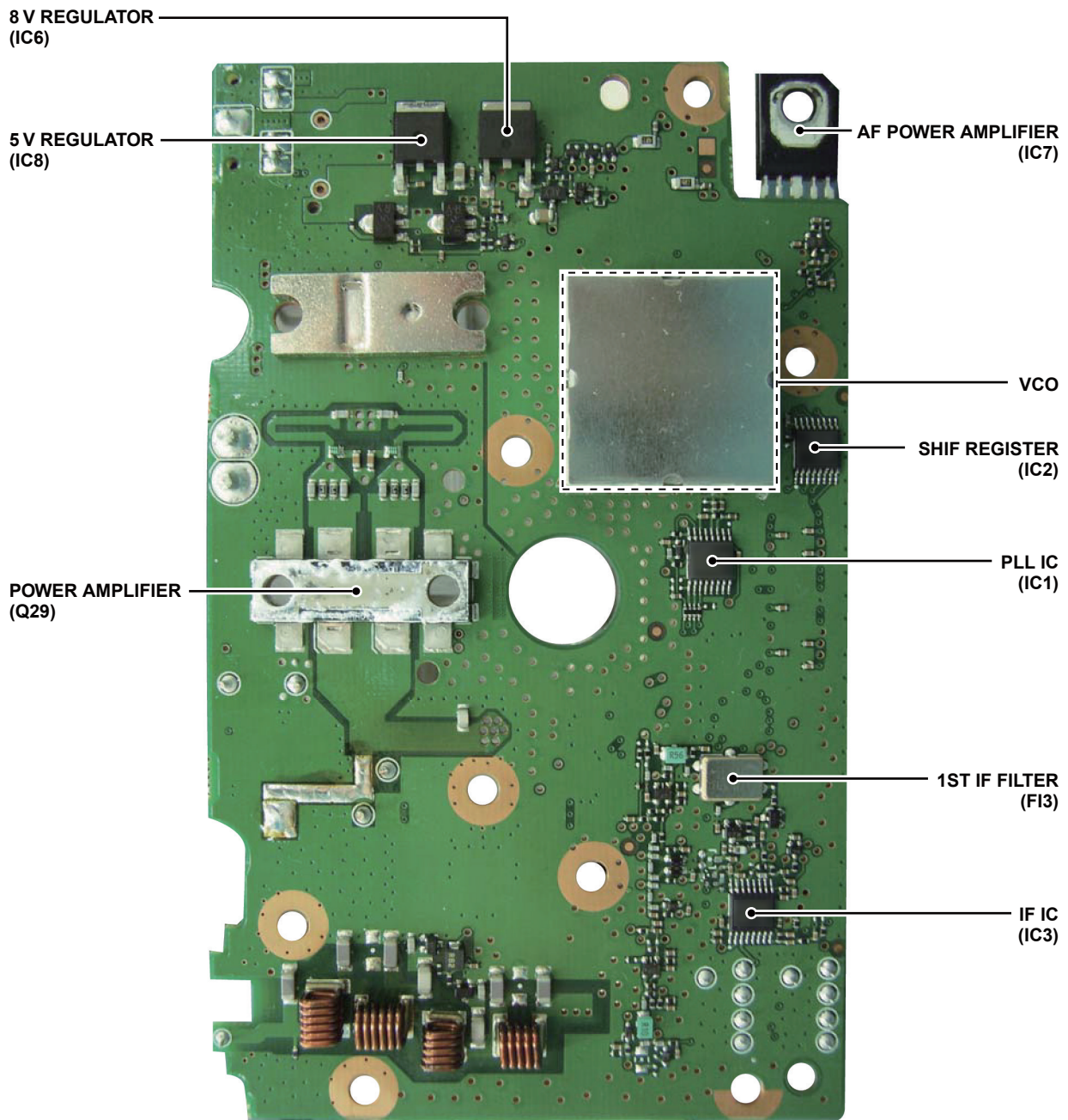
(TOP VIEW)



The underlined parts have been updated from the addendum of the previous version, or from the original page.

• MAIN/MAIN-A UNITS

(BOTTOM VIEW)



# SECTION 5 ADJUSTMENT PROCEDURES

The underlined parts have been updated from the addendum of the previous version, or from the original page.

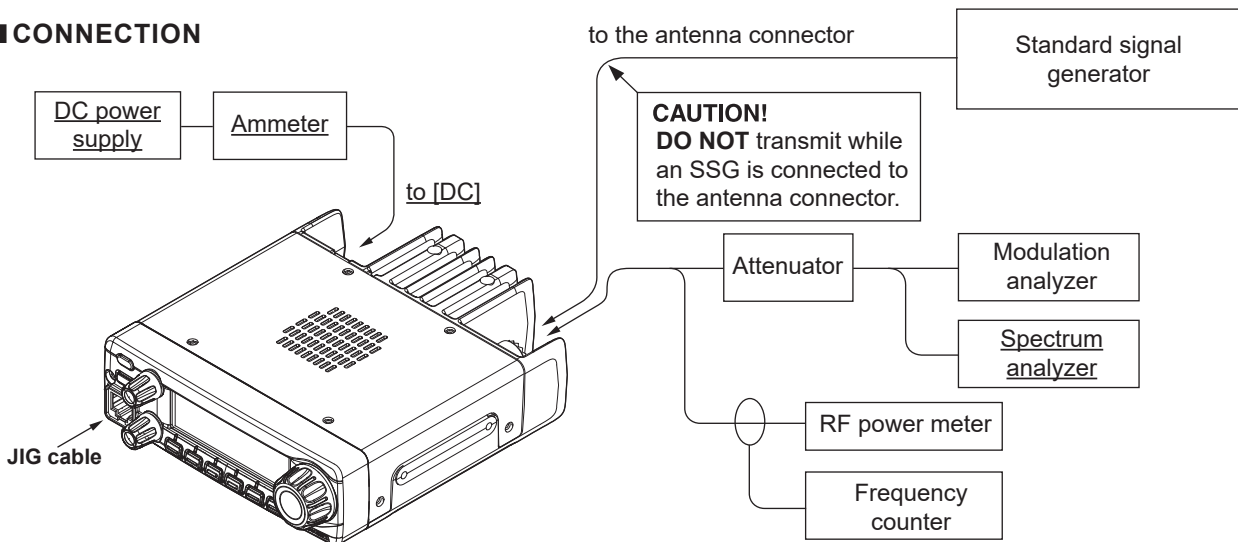
## 5-1 PREPARATION

### ■ REQUIRED EQUIPMENT

EQUIPMENT	GRADE AND RANGE	EQUIPMENT	GRADE AND RANGE
DC power supply	Output voltage: Up to 13.8 V Rated output current: 15 A or more	JIG cable	Modified 8-pin modular cable (See the illustration shown below.)
RF power meter (50 Ω terminated)	Measuring range: 0.1~100 W Frequency range: 100~300 MHz	Standard signal generator (SSG)	Frequency range: Up to 300 MHz Output level: -20 dBμ~90 dBμ (-127~-17 dBm)
Modulation analyzer	Frequency range: 30~300 MHz Measuring range: 0~±10 kHz	Distortion meter	Measuring accuracy: 3% or less at 1 kHz Input level: 50 mW to 10 V
Frequency counter	Measuring range: Up to 300 MHz Measuring accuracy: ±1 ppm or better	Audio generator (AG)	Frequency range: Up to 3000 Hz Output level: 1~500 mV
Attenuator	Power attenuation: 40~60 dB Rated input power: 70 W or more	External speaker	Input impedance: 4 Ω Rated input: 4 W or more
Ammeter	Measuring range: 0~20 A	AC millivoltmeter	Measuring range: 10 mV to 10 V
Spectrum analyzer	Measuring range: Up to 2 GHz	FM Transceiver	DTCS/CTCSS: Usable

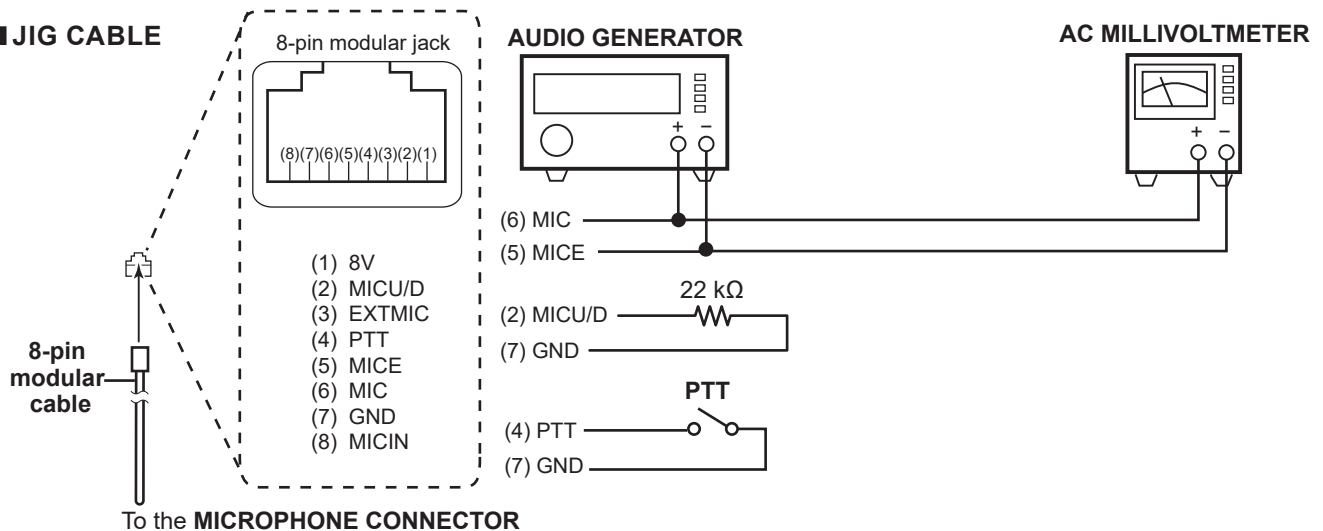
**CAUTION!:** BACK UP the originally programmed memory data in the DUT (Device Under Test), before starting the adjustments.  
When the adjustment is finished, the memory data will be cleared.

### ■ CONNECTION



The tests described in this section should be measured and adjusted with the above test equipment. However, a radio tester can also be used for these adjustment procedures.

### ■ JIG CABLE



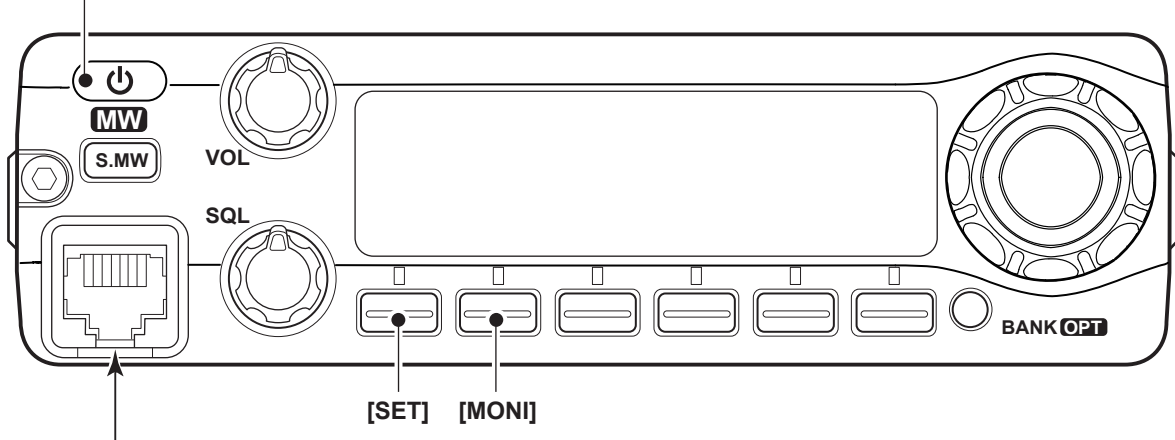
The underlined parts have been updated from the addendum of the previous version, or from the original page.

### 5-1 PREPARATION (CONTINUED)

#### ■ ENTERING THE ADJUSTMENT MODE

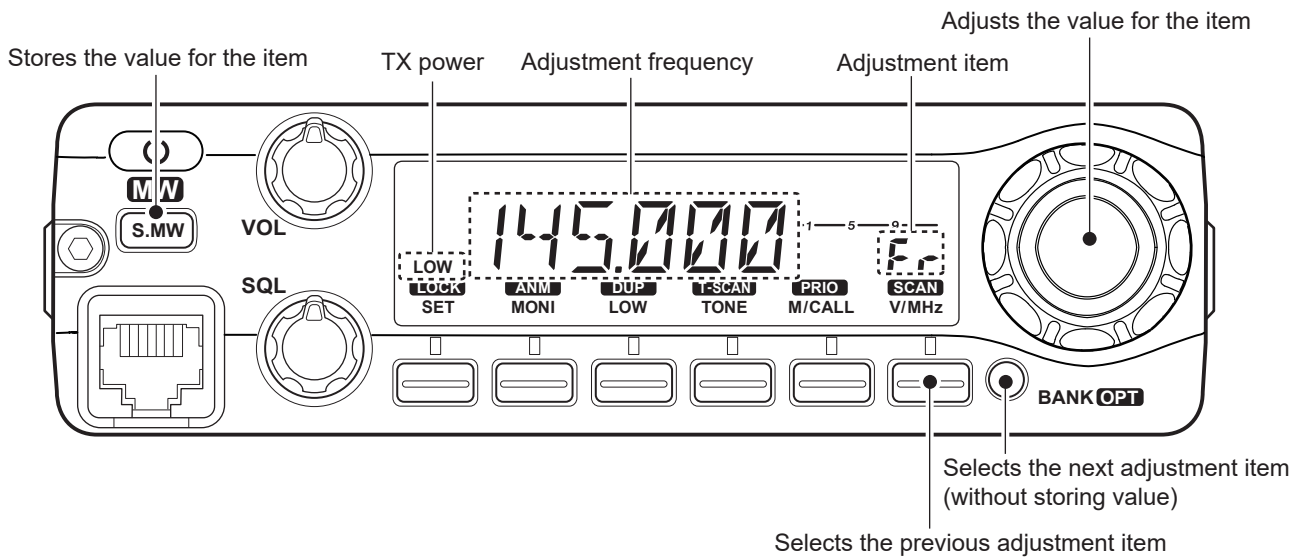
- 1) Turn OFF the power.
- 2) Connect the JIG cable (See page 5-1g) to the microphone connector.
- 3) While holding down **[SET]** and **[MONI]**, turn ON the power.

Push to turn ON the power.



Connect the JIG cable (See page 5-1g) here.

#### ■ KEY ASSIGNMENTS FOR THE ADJUSTMENT MODE



#### ■ QUITTING THE ADJUSTMENT MODE

- 1) Turn OFF the power.
- 2) Disconnect the JIG cable, and then turn ON the power.

### 5-2 FREQUENCY ADJUSTMENT

- 1) Select an adjustment item using **[BANK]** or **[V/MHz]**.
- 2) Set or modify the adjustment value as specified using **[DIAL]**, and then push **[S.MW]**.

ADJUSTMENT	DUT'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
REFERENCE FREQUENCY	1 • Transmitting	<ul style="list-style-type: none"> <li>• Connect the RF power meter to the antenna connector.</li> <li>• Loosely couple the frequency counter to the antenna connector.</li> <li>• While transmitting, adjust the frequency using <b>[DIAL]</b>, and then push <b>[S.MW]</b> to store the adjustment value.</li> </ul>	<b>[F<sub>r</sub>]</b>	<p><b>For except [USA]:</b> 145.000000 MHz (Within ±100 Hz)</p> <p><b>For only [USA]:</b> 146.000000 MHz (Within ±100 Hz)</p>

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### 5-3 TRANSMIT ADJUSTMENTS

- Select an adjustment item using **[BANK]** or **[V/MHz]**.
- Set or modify the adjustment value as specified using **[DIAL]**, and then push **[S.MW]**.

**NOTE:** If you have any asks about the adjustment, contact your distributor for details.

ADJUSTMENT	DUT'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
<b>TX OUTPUT POWER</b>	<b>NOTE:</b> Rotating <b>[DIAL]</b> in the TX adjustment mode without actually transmitting will result in an inaccurate adjustment.			
(High power) -Band low-	1 • Transmitting	<ul style="list-style-type: none"> <li>• Connect the RF power meter to the antenna connector.</li> <li>• While transmitting, adjust the output power using <b>[DIAL]</b>, and then push <b>[S.MW]</b> to store the adjustment value.</li> </ul>	<b>[P<sub>0</sub>]</b>	(See the table below.)
-Band center-	2			
-Band high-	3			
(Mid-High power) -Band low-	4			
-Band center-	5			
-Band high-	6			
(Mid-Low power) -Band low-	7			
-Band center-	8			
-Band high-	9			
(Low power) -Band low-	10			
-Band center-	11			
-Band high-	12			

• **Transmit output power adjustment value**

Power level	<b>[USA]</b> and <b>[EXP-01/03/05/06/07/08]</b>	<b>[KOR]</b> and <b>[KOR-01]</b>	<b>[THA-03]</b> and <b>[THA-04]</b>
High	Band low: 60 W (Within ±1 W)	52 W (Within ±1 W)	60 W (Within ±1 W)
	Band center: 66 W (Within ±1 W)		
	Band high: 55 W (Within ±1 W)		
Mid-High	25 W (Within ±1 W)	25 W (Within ±1 W)	
Mid-Low	10 W (Within ±1 W)		
Low	5 W (Within ±1 W)		

Continued on the next page...

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### 5-3 TRANSMIT ADJUSTMENTS (CONTINUED)

- Select an adjustment item using **[BANK]** or **[V/MHz]**.
- Set or modify the adjustment value as specified using **[DIAL]**, and then push **[S.MW]**.

ADJUSTMENT		DUT'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
<b>FM DEVIATION</b> -Band low- -Band center- -Band high-	1	• Transmitting	• Connect the modulation analyzer to the antenna connector, through the attenuator, and set it to: Detector: (P-P)/2 HPF: OFF LPF: 20 kHz • Connect the audio generator to the JIG cable, and set it to: Frequency: 1 kHz Level: <b>For only [USA]</b> 80 mVrms <b>For except [USA]</b> 20 mVrms • While transmitting, adjust the deviation using <b>[DIAL]</b> , and then push <b>[S.MW]</b> to store the adjustment value.	<b>[dE]</b>	±4.2 kHz (Within ±0.1 kHz)
	2				
	3				
<b>MODULATION BALANCE</b> -Band low- -Band center- -Band high-	1	• Transmitting	• Connect the modulation analyzer to the antenna connector, through the attenuator, and set it to: Detector: (P-P)/2 HPF: OFF LPF: 20 kHz • While transmitting, adjust the deviation using <b>[DIAL]</b> , and then push <b>[S.MW]</b> to store the adjustment value.	<b>[dE]</b>	±1.55 kHz (Within ±0.05 kHz)
	2				
	3				
<b>TONES DEVIATION</b> -CTCSS- -DTCS- -DTMF- -EUR-	1	• Transmitting	• Connect a modulation analyzer to the antenna connector, through an attenuator, and set it to: Detector: (P-P)/2 HPF: OFF LPF: 20 kHz • While transmitting, adjust the deviation using <b>[DIAL]</b> , and then push <b>[S.MW]</b> to store the adjustment value.	<b>[dE]</b>	±0.75 kHz (Within ±0.05 kHz)
	2			<b>[dD]</b>	
	3			<b>[dF]</b>	±3.5 kHz (Within ±0.1 kHz)
	4			<b>[dU]</b>	

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### 5-4 RECEIVE ADJUSTMENTS

- Select an adjustment item using **[BANK]** or **[V/MHz]**.
- Set or modify the adjustment value as specified using **[DIAL]**, and then push **[S.MW]**.

ADJUSTMENT	DUT'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE	
<b>RECEIVE SENSITIVITY</b> -Band low-	<b>NOTE:</b> When "RECEIVE SENSITIVITY" is adjusted, "S-METER" and "SQUELCH" must also be re-adjusted.				
	1	• Receiving	• Connect the SSG to the antenna connector, and set it to: Frequency: 136.020 MHz Level: 0 dBμ (PD) (-107 dBm) Modulation: 1 kHz Deviation: ±3.5 kHz • Push <b>[S.MW]</b> .	[F1]	Push <b>[S.MW]</b> . (Automatic adjustment)
	-Band center-	2	• Set the SSG to: Frequency: 155.020 MHz • Push <b>[S.MW]</b> .	[F2]	
-Band high-	3	• Set the SSG to: Frequency: 173.980 MHz • Push <b>[S.MW]</b> .	[F3]		
<b>SQUELCH</b> (Wide)	<b>NOTE:</b> When "RECEIVE SENSITIVITY" is adjusted, "S-METER" and "SQUELCH" must also be re-adjusted.				
	1	• Receiving	• Connect the SSG to the antenna connector, and set it to: Level: OFF • Push <b>[S.MW]</b> .	[S9]	Push <b>[S.MW]</b> . (Automatic adjustment)
(Narrow)	2		[S7]		
<b>S-METER</b> (S1 level setting)	<b>NOTE:</b> When "RECEIVE SENSITIVITY" is adjusted, "S-METER" and "SQUELCH" must also be re-adjusted.				
	1	• Receiving	• Connect the SSG to the antenna connector, and set it to: Frequency: <b>For only [USA]</b> 146.020 MHz <b>For except [USA]</b> 145.020 MHz Level: -7 dBμ (PD) (-114 dBm) Modulation: OFF • Push <b>[S.MW]</b> .	[S1]	Push <b>[S.MW]</b> . (Automatic adjustment)
	(S3 level setting)	2	• Set the SSG to: Level: -2 dBμ (PD) (-109 dBm) Modulation: OFF • Push <b>[S.MW]</b> .	[S2]	
	(S9++ level setting)	3	• Set the SSG to: Level: +12 dBμ (PD) (-95 dBm) Modulation: OFF • Push <b>[S.MW]</b> .	[S3]	
	(Balance adjustment) -Band low-	4	• Connect the SSG to the antenna connector, and set it to: Frequency: 136.020 MHz Level: -2 dBμ (PD) (-109 dBm) Modulation: OFF • Push <b>[S.MW]</b> .		
	-Band center-	5	• Set the SSG to: Frequency: 145.020 MHz • Push <b>[S.MW]</b> .		
-Band high-	6	• Set the SSG to: Frequency: 173.980 MHz • Push <b>[S.MW]</b> .			

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### 5-5 TRANSMIT VERIFICATIONS

- Verify the power supply voltage is 13.8 V, and connect the microphone to the **[MIC]** connector.
- Turn ON the DUT on the normal operating mode.

**NOTE:** The check point frequencies are any of the amateur band, we recommend 3 points, lower edge, higher edge and center frequencies.

ADJUSTMENT	MODE	OPERATION	VERSION	VALUE		
<b>REFERENCE FREQUENCY</b>	1 FM	<ul style="list-style-type: none"> <li>• Connect the RF power meter to the antenna connector.</li> <li>• Loosely couple the frequency counter to the antenna connector.</li> <li>• While transmitting, verify the frequency.</li> </ul>	<b>All versions</b>	Within 500 Hz of the Displayed frequency		
<b>TX OUTPUT POWER</b> <b>-High-</b>	1 FM	<ul style="list-style-type: none"> <li>• Connect the RF power meter to the antenna connector.</li> <li>• While transmitting, verify the output power.</li> </ul>	<b>[USA] and [EXP-01/03/05/06/07/08]</b>	61~73 W		
			<b>[KOR] and [KOR-01]</b>	48~55 W		
			<b>[THA-03] and [THA-04]</b>	55~68 W		
			<b>All versions</b>	20~30 W		
<b>-Mid High-</b>	2			7~13 W		
<b>-Mid Low-</b>	3			2.5~7 W		
<b>-Low-</b>	4					
<b>TX FLOWING CURRENT</b> <b>-HIGH-</b>	1 FM	<ul style="list-style-type: none"> <li>• Connect the RF power meter to the antenna connector.</li> <li>• Connect the ammeter between the power supply and DC power connector.</li> <li>• While transmitting, verify the transmit current.</li> </ul>	<b>All versions</b>	11 A or less		
				<b>-MID High-</b>	2	9 A or less
				<b>-MID Low-</b>	3	6 A or less
				<b>-Low-</b>	4	5 A or less
<b>FM DEVIATION (MAXIMUM)</b>	1 FM	<ul style="list-style-type: none"> <li>• Connect the modulation analyzer to the antenna connector, through the attenuator, and set it to: Detector: (P-P)/2 HPF: OFF LPF: 20 kHz</li> <li>• Connect the audio generator to the MIC connector, and set it to: Frequency: 1 kHz Level: <b>For only [USA]</b> 80 mVrms <b>For except [USA]</b> 20 mVrms</li> <li>• While transmitting, verify the FM deviation.</li> </ul>	<b>All versions</b>	±5.0 kHz or less		
	2 FM-N			±2.5 kHz or less		
<b>(STANDARD)</b>	3 FM	<ul style="list-style-type: none"> <li>• Set the audio generator output level so that the modulation analyzer shows ±3.5 kHz of deviation.</li> <li>• While transmitting, verify the audio generator output level.</li> </ul>	<b>For only [USA]</b>	8 mV rms ±3 dB		
			<b>For except [USA] versions</b>	2 mV rms ±3 dB		
	4 FM-N	<ul style="list-style-type: none"> <li>• Set the audio generator output level so that the modulation analyzer shows ±1.75 kHz of deviation.</li> <li>• While transmitting, verify the audio generator output level.</li> </ul>	<b>For only [USA]</b>	8 mV rms ±3 dB		
			<b>For except [USA] versions</b>	2 mV rms ±3 dB		
<b>(DTMF/EUR TONE)</b>	5 FM	<ul style="list-style-type: none"> <li>• Connect the modulation analyzer to the antenna connector, through the attenuator, and set it to: Detector: (P-P)/2 HPF: OFF LPF: 20 kHz</li> <li>• While transmitting, verify the FM deviation.</li> </ul>	<b>All versions</b>	3.0~4.5 kHz (DTMF: Holding down <b>[D]</b> key)		
<b>(CTCSS/DTCS)</b>	6			0.5~1.0 kHz		

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### 5-5 TRANSMIT VERIFICATIONS (CONTINUED)

- Verify the power supply voltage is 13.8 V, and connect the microphone to the **[MIC]** connector.
- Turn ON the DUT on the normal operating mode.

**NOTE:** The check point frequencies are any of the amateur band, we recommend 3 points, lower edge, higher edge and center frequencies.

ADJUSTMENT		MODE	OPERATION	VERSION	VALUE
<u>TX SIGNAL-TO-NOISE RATIO</u>	1	FM	<ul style="list-style-type: none"> <li>• Connect the modulation analyzer to the antenna connector, through the attenuator, and set it to:                Detector: (P-P)/2                HPF: 50 kHz                LPF: 20 kHz</li> <li>• Connect the audio generator with the AC millivoltmeter to [MIC], through the JIG cable, and set it to:                Frequency: 1 kHz                Waveform: Sine wave                Level: Set the audio generator output level so that the modulation analyzer shows ±3.5 kHz of the deviation.</li> <li>• While transmitting, verify the TX-signal-to-noise ratio.</li> <li>• Toggle the audio generator output ON and OFF.</li> </ul>	<b>All versions</b>	40 dB or more
	2	FM-N	<ul style="list-style-type: none"> <li>• Set the audio generator to:                Level: Set the audio generator output level so that the modulation analyzer shows ±1.75 kHz of the deviation.</li> <li>• While transmitting, verify the TX-signal-to-noise ratio.</li> <li>• Toggle the audio generator output ON and OFF.</li> </ul>		34 dB or more
<u>SPURIOUS EMISSIONS</u>	1	FM	<ul style="list-style-type: none"> <li>• Connect the spectrum analyzer to the antenna connector, through the attenuator.</li> <li>• While transmitting, verify the spurious emissions.</li> </ul>	<b>All versions</b>	At least 60 dBc

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## 5-6 RECEIVE VERIFICATIONS

- Confirm the power supply voltage is 13.8 V.
- Turn ON the DUT on the normal operating mode.

**NOTE:** The check point frequencies are any of the amateur band, we recommend 3 points, lower edge, higher edge and center frequencies.

ADJUSTMENT		MODE	OPERATION	VERSION	VALUE
<b>RECEIVE SENSITIVITY</b>	1	FM	<ul style="list-style-type: none"> <li>• Connect the distortion meter with the external speaker to the [SP] jack.</li> <li>• Connect the SSG to the antenna connector, and set it to:                             <ul style="list-style-type: none"> <li>Frequency: Displayed frequency</li> <li>Modulation: 1 kHz</li> <li>Deviation: ±3.5 kHz</li> <li>Level: Set to the level so that the distortion meter shows 12 dB SINAD.</li> </ul> </li> <li>• While receiving, verify the receive sensitivity.</li> </ul>	<b>All versions</b>	15 dBμ (PD) (-122 dBm) or less
<b>SQUELCH SENSITIVITY -Threshold-</b>	1	FM	<ul style="list-style-type: none"> <li>• Connect the SSG to the antenna connector, and set it to:                             <ul style="list-style-type: none"> <li>Frequency: Displayed frequency</li> <li>Modulation: OFF</li> <li>Level: OFF</li> </ul> </li> <li>• Set the [SQL] control to the level so that the squelch just closed (threshold point).</li> <li>• Set the SSG to:                             <ul style="list-style-type: none"> <li>Level: Set to the level so that the squelch just opens.</li> </ul> </li> <li>• While receiving, verify the squelch sensitivity.</li> </ul>	<b>All versions</b>	-18 dBμ (PD) (-125 dBm) or less
<b>SQUELCH SENSITIVITY -Tight-</b>	1	FM	<ul style="list-style-type: none"> <li>• Connect the SSG to the antenna connector, and set it to:                             <ul style="list-style-type: none"> <li>Frequency: Displayed frequency</li> <li>Modulation: OFF</li> <li>Level: OFF</li> </ul> </li> <li>• Set the [SQL] control to the maximum clockwise position.</li> <li>• Set the SSG to:                             <ul style="list-style-type: none"> <li>Level: Set to the level so that the squelch just opens.</li> </ul> </li> <li>• While receiving, verify the squelch sensitivity.</li> </ul>	<b>All versions</b>	15 dBμ (PD) (-92 dBm) or less
<b><u>RX SIGNAL-TO-NOISE RATIO</u></b>	1	FM	<ul style="list-style-type: none"> <li>• Connect the distortion meter with the external speaker to the [SP] jack.</li> <li>• Connect the SSG to the antenna connector, and set it to:                             <ul style="list-style-type: none"> <li>Frequency: Displayed frequency</li> <li>Modulation: 1 kHz</li> <li>Deviation: ±3.5 kHz</li> <li>Level: 60 dBμ (PD) (-47 dBm)</li> </ul> </li> <li>• Set [VOL] to the point where the distortion meter shows 10% distortion.</li> <li>• Toggle the SSG modulation ON and OFF.</li> <li>• While receiving, verify the RX signal-to-noise ratio.</li> </ul>	<b>All versions</b>	60 dB or more
<b><u>LO SIGNAL LEAKS</u></b>	1	FM	<ul style="list-style-type: none"> <li>• Connect the spectrum analyzer to the antenna connector, through the attenuator.</li> <li>• While receiving, verify the LO signal leaks.</li> </ul>	<b>All versions</b>	-57 dBm or less

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### 5-6 RECEIVE VERIFICATIONS (CONTINUED)

- Confirm the power supply voltage is 13.8 V.
- Turn ON the DUT on the normal operating mode.

**NOTE:** The check point frequencies are any of the amateur band, we recommend 3 points, lower edge, higher edge and center frequencies.

ADJUSTMENT		MODE	OPERATION	VERSION	VALUE
<b>AUDIO OUTPUT POWER</b>	1	FM	<ul style="list-style-type: none"> <li>• Connect the distortion meter with the external speaker to the [SP] jack.</li> <li>• Connect the SSG to the antenna connector, and set it to:                             <ul style="list-style-type: none"> <li>Frequency: Displayed frequency</li> <li>Modulation: 1 kHz</li> <li>Deviation: ±3.5 kHz</li> <li>Level: 60 dBμ (PD) (-47 dBm)</li> </ul> </li> <li>• Set [VOL] to the point where the distortion meter shows 10% distortion.</li> <li>• While receiving, verify the audio output power.</li> </ul>	<b>All versions</b>	3.5 W (≈3.75 Vrms) or more
<b>RX FLOWING CURRENT</b>	1	FM	<ul style="list-style-type: none"> <li>• Connect the ammeter between the DUT and the DC power supply.</li> <li>• Connect the SSG to the antenna connector, and set it to:                             <ul style="list-style-type: none"> <li>Frequency: Displayed frequency</li> <li>Modulation: 1 kHz</li> <li>Deviation: ±3.5 kHz</li> <li>Level: 60 dBμ (PD) (-47 dBm)</li> </ul> </li> <li>• Set [VOL] to the maximum clockwise position.</li> <li>• While receiving, verify the RX flowing current.</li> </ul>	<b>All versions</b>	1.5 A or less
<b><u>For only [USA]</u> <u>WX ALERT FUNCTION</u></b>	1	FM	<ul style="list-style-type: none"> <li>• Set the frequency to weather channel 10.</li> <li>• Set the “WX Alert” item to “ON” in the Set mode.</li> <li>• Connect the SSG to the antenna connector, and set it to:                             <ul style="list-style-type: none"> <li>Frequency: 163.275 MHz</li> <li>Modulation: 1050 Hz</li> <li>Deviation: ±3.5 kHz</li> <li>Level: +30 dBμ (PD) (-77 dBm)</li> </ul> </li> <li>• While receiving, verify the WX alert function.</li> </ul>	<b>For only [USA]</b>	The alert beeps sound and “ <u>FL T</u> ” is displayed.
<b><u>DTCS FUNCTION</u></b>	1	FM	<ul style="list-style-type: none"> <li>• Set the DUT's frequency and DTCS code to any frequency and code.</li> <li>• Use another FM transceiver, and set the operating frequency and DTCS code to same as the DUT.</li> <li>• While holding down the transceiver's [PTT], speak into the microphone.</li> <li>• While receiving, verify the DTCS function.</li> </ul>	<b>All versions</b>	Audio is heard from the DUT.
	2		<ul style="list-style-type: none"> <li>• Set the transceiver's DTCS code to different code from the DUT.</li> <li>• While holding down the transceiver's [PTT], speak into the microphone.</li> <li>• While receiving, verify the DTCS function.</li> </ul>		No audio is heard from the DUT
<b><u>CTCSS FUNCTION</u></b>	1	FM	<ul style="list-style-type: none"> <li>• Set the DUT's operating frequency and CTCSS frequency to any frequency.</li> <li>• Use another FM transceiver, and set the operating frequency and CTCSS frequency to same as the DUT.</li> <li>• While holding down the transceiver's [PTT], speak into the microphone.</li> <li>• While receiving, verify the CTCSS function.</li> </ul>	<b>All versions</b>	Audio is heard from the DUT.
	2		<ul style="list-style-type: none"> <li>• Set the transceiver's CTCSS frequency to different frequency from the DUT.</li> <li>• While holding down the transceiver's [PTT], speak into the microphone.</li> <li>• While receiving, verify the DTCS function.</li> </ul>		No audio is heard from the DUT

**SECTION 6**

**PARTS LIST**

The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[LOGIC UNIT]**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION	REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140015980	S.IC R5F2L3AACNFP	B	56.7/16.5	D17	1750001810	S.DIO L1SS400T1G	[#50]	B 129.3/7.6
IC3	1110008170	S.IC NJM2747V-TE1	B	27.5/17.6	Eqv.	1750004690	S.DIO 1SS400	[#50]	B 129.3/7.6
IC4	1110007620	S.IC NJU7704F3-42A-TE1	B	111.6/23.2	D21	1750001850	S.DIO LDAN222T1G		T 108.6/1.7
IC5	1130016260	S.IC BR24T64FVT-WE2	B	113.2/4.1	Eqv.	1750004760	S.DIO DAN222		B 125.7/7.6
IC6	1130011770	S.IC CD4066BPWR	B	40.9/18.2	D22	1750001810	S.DIO L1SS400T1G	[#10]	B 125.7/7.6
IC24	1110006490	S.IC LMV321IDCKR	B	17.9/14.0	Eqv.	1750004690	S.DIO 1SS400	[#10]	B 125.7/7.6
IC25	1110008680	S.IC NJU72341V-TE2	T	26.1/18.4	D22	1750001810	S.DIO L1SS400T1G	[#13]	B 125.7/7.6
IC28	1130011770	S.IC CD4066BPWR	B	13.3/22.3	Eqv.	1750004690	S.DIO 1SS400	[#13]	B 125.7/7.6
IC29	1130011760	S.IC CD4094BPWR	B	50.5/25.2	D22	1750001810	S.DIO L1SS400T1G	[#20]	B 125.7/7.6
IC30	1130011760	S.IC CD4094BPWR	B	49.5/17.9	Eqv.	1750004690	S.DIO 1SS400	[#20]	B 125.7/7.6
					D22	1750001810	S.DIO L1SS400T1G	[#40]	B 125.7/7.6
					Eqv.	1750004690	S.DIO 1SS400	[#40]	B 125.7/7.6
Q1	1530004140	S.TRA L2SC4081RT1G	B	14.7/8.6	D22	1750001810	S.DIO L1SS400T1G	[#43]	B 125.7/7.6
Eqv.	1530004690	S.TRA 2SC4081 R			Eqv.	1750004690	S.DIO 1SS400	[#43]	B 125.7/7.6
Q2	1590001940	S.TRA DTC144EE TL	B	45.5/11.4	D22	1750001810	S.DIO L1SS400T1G	[#50]	B 125.7/7.6
Eqv.	1590004070	S.TRA LDTL144EET1G			Eqv.	1750004690	S.DIO 1SS400	[#50]	B 125.7/7.6
Eqv.	1590005870	S.TRA DTC144EE			D23	1750001810	S.DIO L1SS400T1G	[#06]	B 126.9/7.6
Q3	1590002630	S.TRA UMZ1N TR	B	53.7/9.4	Eqv.	1750004690	S.DIO 1SS400	[#06]	B 126.9/7.6
Eqv.	1590004390	S.TRA DMG504010R			D23	1750001810	S.DIO L1SS400T1G	[#17]	B 126.9/7.6
Q5	1590004100	S.TRA LDTC144TET1G	B	85.8/15.1	Eqv.	1750004690	S.DIO 1SS400	[#17]	B 126.9/7.6
Q7	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	79.9/16.8	D23	1750001810	S.DIO L1SS400T1G	[#36]	B 126.9/7.6
Eqv.	1530002852	S.TRA 2SC4116-BLLF			Eqv.	1750004690	S.DIO 1SS400	[#36]	B 126.9/7.6
Q8	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	76.7/12.3	D23	1750001810	S.DIO L1SS400T1G	[#47]	B 126.9/7.6
Eqv.	1530002852	S.TRA 2SC4116-BLLF			Eqv.	1750004690	S.DIO 1SS400	[#47]	B 126.9/7.6
Q10	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	77.4/16.8	D25	1750000771	S.VAR HVC376BTRF-E		B 84.4/6.2
Eqv.	1530002852	S.TRA 2SC4116-BLLF			D27	1750001810	S.DIO L1SS400T1G		B 125.7/10.1
Q11	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	80.1/12.5	Eqv.	1750004690	S.DIO 1SS400		B 126.9/10.1
Eqv.	1530002852	S.TRA 2SC4116-BLLF			D28	1750001810	S.DIO L1SS400T1G	[#05]	B 126.9/10.1
					Eqv.	1750004690	S.DIO 1SS400	[#05]	B 126.9/10.1
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	15.2/11.8	D28	1750001810	S.DIO L1SS400T1G	[#06]	B 126.9/10.1
D2	1750001810	S.DIO L1SS400T1G	B	10.2/7.4	Eqv.	1750004690	S.DIO 1SS400	[#06]	B 126.9/10.1
Eqv.	1750004690	S.DIO 1SS400			D28	1750001810	S.DIO L1SS400T1G	[#17]	B 126.9/10.1
D3	1750002040	S.ZEN DZ2J091M0L	B	2.8/10.9	Eqv.	1750004690	S.DIO 1SS400	[#17]	B 126.9/10.1
Eqv.	1750004610	S.ZEN UDZVUTE-17 9.1B			D28	1750001810	S.DIO L1SS400T1G	[#36]	B 126.9/10.1
D4	1750001850	S.DIO LDAN222T1G	T	111.7/15.6	Eqv.	1750004690	S.DIO 1SS400	[#36]	B 126.9/10.1
Eqv.	1750004760	S.DIO DAN222			D28	1750001810	S.DIO L1SS400T1G	[#47]	B 126.9/10.1
D6	1750000370	S.DIO DAN221 TL	B	87.7/16.4	Eqv.	1750004690	S.DIO 1SS400	[#47]	B 7.0/4.9
Eqv.	1750001820	S.DIO LRB706F-40T1G			D32	1750001810	S.DIO L1SS400T1G		B 7.0/4.9
D7	1750001850	S.DIO LDAN222T1G	T	98.3/1.7	Eqv.	1750004690	S.DIO 1SS400		B 99.0/5.0
Eqv.	1750004760	S.DIO DAN222			D33	1750001810	S.DIO L1SS400T1G		B 99.0/5.0
D8	1750001850	S.DIO LDAN222T1G	T	62.3/1.7	Eqv.	1750004690	S.DIO 1SS400		T 112.5/13.2
Eqv.	1750004760	S.DIO DAN222			D36	1750001810	S.DIO L1SS400T1G		B 87.8/18.1
D9	1750001850	S.DIO LDAN222T1G	T	50.3/1.7	Eqv.	1750004690	S.DIO 1SS400		
Eqv.	1750004760	S.DIO DAN222			D37	1750001810	S.DIO L1SS400T1G		
D12	1750001810	S.DIO L1SS400T1G	[#06]	B 125.7/5.1	Eqv.	1750004690	S.DIO 1SS400		
Eqv.	1750004690	S.DIO 1SS400	[#06]						
D12	1750001810	S.DIO L1SS400T1G	[#17]	B 125.7/5.1	X1	6050013180	S.XTA CR-910 (9.8304 MHz)		B 89.8/7.9
Eqv.	1750004690	S.DIO 1SS400	[#17]						
D12	1750001810	S.DIO L1SS400T1G	[#36]	B 125.7/5.1	R1	7030016360	S.RES RMC1/16S-123JTH (12 k)		B 17.0/15.8
Eqv.	1750004690	S.DIO 1SS400	[#36]		R2	7030016140	S.RES RMC1/16S-124JTH (120 k)		B 15.8/15.4
D12	1750001810	S.DIO L1SS400T1G	[#47]	B 125.7/5.1	R3	7030015970	S.RES RMC1/16S-103JTH (10 k)		B 17.0/11.8
Eqv.	1750004690	S.DIO 1SS400	[#47]		R5	7030016100	S.RES RMC1/16S-334JTH (330 k)		B 14.9/15.4
D13	1750001810	S.DIO L1SS400T1G	[#05]	B 126.9/5.1	R6	7030016070	S.RES RMC1/16S-474JTH (470 k)		B 20.1/13.8
Eqv.	1750004690	S.DIO 1SS400	[#05]		R7	7510001770	S.THE NTCG10 4LH 473JT		T 112.1/23.0
D13	1750001810	S.DIO L1SS400T1G	[#06]	B 126.9/5.1	R8	7030016290	S.RES RMC1/16S-222JTH (2.2 k)		B 12.5/7.3
Eqv.	1750004690	S.DIO 1SS400	[#06]		R9	7030016090	S.RES RMC1/16S-223JTH (22 k)		B 12.0/8.5
D13	1750001810	S.DIO L1SS400T1G	[#17]	B 126.9/5.1	R10	7030015970	S.RES RMC1/16S-103JTH (10 k)		B 14.7/6.8
Eqv.	1750004690	S.DIO 1SS400	[#17]		R11	7030005830	S.RES RR0510P-223-D (22 k)		T 112.6/24.2
D13	1750001810	S.DIO L1SS400T1G	[#36]	B 126.9/5.1	R12	7030016020	S.RES RMC1/16S-104JTH (100 k)		B 12.9/8.5
Eqv.	1750004690	S.DIO 1SS400	[#36]		R14	7030015960	S.RES RMC1/16S-472JTH (4.7 k)		B 14.0/15.4
D13	1750001810	S.DIO L1SS400T1G	[#47]	B 126.9/5.1	R15	7030016050	S.RES RMC1/16S-102JTH (1 k)		B 13.1/15.4
Eqv.	1750004690	S.DIO 1SS400	[#47]		R16	7030015990	S.RES RMC1/16S-683JTH (68 k)		B 55.5/13.3
D16	1750001810	S.DIO L1SS400T1G	[#10]	B 128.1/7.6	R17	7030015990	S.RES RMC1/16S-683JTH (68 k)		B 54.1/12.8
Eqv.	1750004690	S.DIO 1SS400	[#10]		R18	7030016400	S.RES RMC1/16S-564JTH (560 k)		B 45.6/26.3
D16	1750001810	S.DIO L1SS400T1G	[#13]	B 128.1/7.6	R19	7030016050	S.RES RMC1/16S-102JTH (1 k)		B 34.3/21.3
Eqv.	1750004690	S.DIO 1SS400	[#13]		R21	7030015990	S.RES RMC1/16S-683JTH (68 k)		B 53.7/11.6
D16	1750001810	S.DIO L1SS400T1G	[#17]	B 128.1/7.6	R24	7030016330	S.RES RMC1/16S-153JTH (15 k)		B 51.6/9.8
Eqv.	1750004690	S.DIO 1SS400	[#17]		R25	7030015970	S.RES RMC1/16S-103JTH (10 k)		B 51.6/10.7
D16	1750001810	S.DIO L1SS400T1G	[#20]	B 128.1/7.6	R27	7030016340	S.RES RMC1/16S-393JTH (39 k)		B 44.4/13.0
Eqv.	1750004690	S.DIO 1SS400	[#20]		R28	7030016020	S.RES RMC1/16S-104JTH (100 k)		B 51.6/8.0
D16	1750001810	S.DIO L1SS400T1G	[#40]	B 128.1/7.6	R29	7030015970	S.RES RMC1/16S-103JTH (10 k)		B 55.4/9.8
Eqv.	1750004690	S.DIO 1SS400	[#40]		R30	7030016330	S.RES RMC1/16S-153JTH (15 k)		T 27.1/13.6
D16	1750001810	S.DIO L1SS400T1G	[#43]	B 128.1/7.6	R31	7030016040	S.RES RMC1/16S-224JTH (220 k)		B 105.4/7.9
Eqv.	1750004690	S.DIO 1SS400	[#43]		R32	7030016350	S.RES RMC1/16S-122JTH (1.2 k)		B 54.4/6.6
D16	1750001810	S.DIO L1SS400T1G	[#47]	B 128.1/7.6	R34	7030015990	S.RES RMC1/16S-683JTH (68 k)		B 52.0/6.8
Eqv.	1750004690	S.DIO 1SS400	[#47]		R35	7030016020	S.RES RMC1/16S-104JTH (100 k)		B 30.3/14.4
D16	1750001810	S.DIO L1SS400T1G	[#50]	B 128.1/7.6	R36	7030016360	S.RES RMC1/16S-123JTH (12 k)		B 96.5/6.6
Eqv.	1750004690	S.DIO 1SS400	[#50]		R37	7030016020	S.RES RMC1/16S-104JTH (100 k)		B 55.4/8.2
D17	1750001810	S.DIO L1SS400T1G	[#06]	B 129.3/7.6	R39	7030016200	S.RES RMC1/16S-274JTH (270 k)		B 33.4/16.0
Eqv.	1750004690	S.DIO 1SS400	[#06]		R40	7030016110	S.RES RMC1/16S-473JTH (47 k)		T 93.0/17.2
D17	1750001810	S.DIO L1SS400T1G	[#10]	B 129.3/7.6	R41	7030016360	S.RES RMC1/16S-123JTH (12 k)		B 84.8/7.3
Eqv.	1750004690	S.DIO 1SS400	[#10]		R45	7030016430	S.RES RMC1/16S-392JTH (3.9 k)		B 32.1/22.6
D17	1750001810	S.DIO L1SS400T1G	[#13]	B 129.3/7.6	R47	7030016020	S.RES RMC1/16S-104JTH (100 k)		B 11.8/6.4
Eqv.	1750004690	S.DIO 1SS400	[#13]		R48	7030016060	S.RES RMC1/16S-105JTH (1 M)		B 93.3/8.9
D17	1750001810	S.DIO L1SS400T1G	[#20]	B 129.3/7.6	R49	7030016190	S.RES RMC1/16S-273JTH (27 k)		B 32.1/21.7
Eqv.	1750004690	S.DIO 1SS400	[#20]		R50	7030016060	S.RES RMC1/16S-105JTH (1 M)		B 32.9/18.4
D17	1750001810	S.DIO L1SS400T1G	[#36]	B 129.3/7.6	R51	7030016150	S.RES RMC1/16S-100JTH (10)		B 92.2/10.8
Eqv.	1750004690	S.DIO 1SS400	[#36]		R53	7030016310	S.RES RMC1/16S-155JTH (1.5 M)		B 32.5/19.6
D17	1750001810	S.DIO L1SS400T1G	[#40]	B 129.3/7.6	R56	7030015350	S.RES RMC1/16S-683JTH (68 k)		B 35.1/15.4
Eqv.	1750004690	S.DIO 1SS400	[#40]		R57	7030015970	S.RES RMC1/16S-103JTH (10 k)		B 107.9/4.7
D17	1750001810	S.DIO L1SS400T1G	[#43]	B 129.3/7.6	R58	7030016020	S.RES RMC1/16S-104JTH (100 k)		B 108.8/4.7
Eqv.	1750004690	S.DIO 1SS400	[#43]		R59	7030016330	S.RES RMC1/16S-153JTH (15 k)		B 87.6/14.5

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= Shows mounting location on the PCB.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

[LOGIC UNIT]

Table with columns: REF NO., PART NO., DESCRIPTION, M., H/V LOCATION. It contains two main columns of component data, listing various electronic components and their specifications.

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= Shows mounting location on the PCB.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[LOGIC UNIT]**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C92	4030023210	S.CER 0402B472K500CT	T	104.5/10.9
C94	4030023210	S.CER 0402B472K500CT	B	110.0/12.3
C95	4030023210	S.CER 0402B472K500CT	B	110.0/11.4
C96	4030023210	S.CER 0402B472K500CT	B	109.4/10.5
C97	4030023210	S.CER 0402B472K500CT	T	106.1/10.7
C99	4030023170	S.CER 0402B332K500CT	B	56.8/12.1
C100	4030023160	S.CER 0402B331K500CT	B	57.6/10.0
C101	4030016930	S.CER C1005 JB 1A 104K-T	B	53.0/21.9
Eqv.	4030022940	S.CER 0402B104K100CT		
Eqv.	4030026190	S.CER MG15B104K100CT		
C102	4030018890	S.CER C1005 JB 0J 224K-T	B	106.9/6.8
C103	4030017460	S.CER C1005 JB 1H 102K-T	B	58.0/13.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C104	4030017460	S.CER C1005 JB 1H 102K-T	B	111.7/19.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C105	4030016930	S.CER C1005 JB 1A 104K-T	B	44.4/24.3
Eqv.	4030022940	S.CER 0402B104K100CT		
Eqv.	4030026190	S.CER MG15B104K100CT		
C108	4550007080	S.TAN TEESVA 1C 106M8R	B	9.5/17.4
Eqv.	4550008220	S.TAN F931C106MAA		
Eqv.	4550009180	S.TAN 267E1602106MR533		
C109	4030023070	S.CER 0402B223K250CT	B	36.1/20.9
J1	6450002210	CON 3017-8821		
DS1	5030004190	LCD L5-1064TRR		
DS3	5040003470	S.LED HT-297UY/UYG	T	44.0/20.0
DS5	5040003470	S.LED HT-297UY/UYG	T	55.0/20.0
DS6	5040003470	S.LED HT-297UY/UYG	T	66.0/20.0
DS7	5040003470	S.LED HT-297UY/UYG	T	77.0/20.0
DS8	5040003470	S.LED HT-297UY/UYG	T	88.0/20.0
DS9	5040003470	S.LED HT-297UY/UYG	T	99.0/20.0
S1	2260002740	S.SWI LS8J2M-T	T	10.0/30.6
S2	2260002740	S.SWI LS8J2M-T	T	101.5/4.8
S3	2260002740	S.SWI LS8J2M-T	T	89.5/4.8
S4	2260002740	S.SWI LS8J2M-T	T	77.5/4.8
S5	2260002740	S.SWI LS8J2M-T	T	65.5/4.8
S6	2260002740	S.SWI LS8J2M-T	T	53.5/4.8
S7	2260002740	S.SWI LS8J2M-T	T	41.5/4.8
S8	2260002740	S.SWI LS8J2M-T	T	10.0/21.3
S9	2250000790	ENC EC12E24204A9		
S10	2260002740	S.SWI LS8J2M-T	T	111.8/4.8
EP1	6910018460	S.BEA MMZ1005Y102C-T	B	15.6/13.2
EP2	6910012350	S.BEA MMZ1608Y 102BT	T	11.5/14.6
EP3	6910018460	S.BEA MMZ1005Y102C-T	B	12.2/15.4
EP4	6910018460	S.BEA MMZ1005Y102C-T	T	9.7/14.4
EP5	6910018460	S.BEA MMZ1005Y102C-T	B	8.4/8.5
EP6	6910018460	S.BEA MMZ1005Y102C-T	B	7.1/8.5
EP7	6910018460	S.BEA MMZ1005Y102C-T	T	6.4/14.7
EP8	6910012350	S.BEA MMZ1608Y 102BT	B	4.6/8.0
EP9	8930084270	LCD SRCN-3251-SP-N-W SHJ		

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= Shows mounting location on the PCB.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

[MAIN UNIT] (For [#05], [#06], [#10], [#13], [#17], and [#20])

Table with columns: REF NO., PART NO., DESCRIPTION, M., H/V LOCATION. It lists various electronic components such as ICs, resistors, capacitors, and diodes with their respective part numbers, descriptions, and mounting specifications.

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= Shows mounting location on the PCB.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

[MAIN UNIT] (For [#05], [#06], [#10], [#13], [#17], and [#20])

Table with 11 columns: REF NO., PART NO., DESCRIPTION, M., H/V LOCATION, REF NO., PART NO., DESCRIPTION, M., H/V LOCATION. It lists various electronic components and their specifications for different units.

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= Shows mounting location on the PCB.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

[MAIN UNIT] (For [#05], [#06], [#10], [#13], [#17], and [#20])

Table with columns: REF NO., PART NO., DESCRIPTION, M., H/V LOCATION. The table is split into two main sections, with the second section starting at REF NO. C75. The first section ends at REF NO. C74 and the second section ends at REF NO. C131.

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= Shows mounting location on the PCB.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[MAIN UNIT] (For [#05], [#06], [#10], [#13], [#17], and [#20])**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION	REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C132	4030017460	S.CER C1005 JB 1H 102K-T	B	17.7/40.0	C197	4030023820	S.CER 0603B104K250CT	T	48.7/48.1
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030026170	S.CER MG18B104K250CT		
C133	4030026210	S.CER MG15B102K500CT			C198	4030016790	S.CER C1005 JB 1E 103K-T	T	84.1/23.7
Eqv.	4030022770	S.CER 0402N270J500CT			Eqv.	4030023030	S.CER 0402B103K250CT		
C134	4030018900	S.CER C1005 JB 0J 474K-T	T	22.0/42.9	Eqv.	4030026200	S.CER MG15B103K250CT		
C135	4030017460	S.CER C1005 JB 1H 102K-T	B	18.3/4.1	C199	4030026590	S.CER RF15N180J500CT	B	79.5/21.0
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030017460	S.CER C1005 JB 1H 102K-T	B	82.4/19.5
C136	4030026210	S.CER MG15B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030017460	S.CER C1005 JB 1H 102K-T	T	19.8/49.6	Eqv.	4030026210	S.CER MG15B102K500CT		
C137	4030023090	S.CER 0402B102K500CT			C201	4030023490	S.CER 0603N121J500CT	B	48.9/52.5
Eqv.	4030026210	S.CER MG15B102K500CT			C202	4030023490	S.CER 0603N121J500CT	B	48.9/56.9
C138	4030017460	S.CER C1005 JB 1H 102K-T	T	24.7/43.6	C204	4030023820	S.CER 0603B104K250CT	T	48.6/61.4
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030026170	S.CER MG18B104K250CT		
C139	4030017460	S.CER C1005 JB 1H 102K-T	T	24.7/43.6	C205	4030017460	S.CER C1005 JB 1H 102K-T	B	82.8/23.3
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C140	4030026210	S.CER MG15B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
C141	4030018900	S.CER C1005 JB 0J 474K-T	B	23.2/4.3	C208	4030022220	S.CER GQM2195C2E390JB12D	B	74.0/43.7
Eqv.	4030022640	S.CER 0402N101J500CT	T	22.7/3.1	C209	4030017380	S.CER C1005 CH 1H 050B-T	B	87.3/22.5
C142	4030022640	S.CER 0402N101J500CT	B	23.1/47.0	C210	4030017460	S.CER C1005 JB 1H 102K-T	T	51.2/48.6
Eqv.	4030026140	S.CER MG15N101J500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C143	4030022860	S.CER 0402N470J500CT	B	36.3/50.7	Eqv.	4030026210	S.CER MG15B102K500CT		
C144	4030023200	S.CER 0402B471K500CT	B	21.1/6.4	C211	4030019990	S.CER C1005 JB 1C 104K-T	T	77.8/22.0
C145	4030016790	S.CER C1005 JB 1E 103K-T	T	33.9/48.3	Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030023030	S.CER 0402B103K250CT			Eqv.	4030026220	S.CER MG15B104K160CT		
C146	4030026200	S.CER MG15B103K250CT			C213	4030026700	S.CER RF15N1R0B500CT	B	88.5/22.4
Eqv.	4030017460	S.CER C1005 JB 1H 102K-T	T	34.1/46.2	C216	4030019410	S.CER GRM31A7U2J471JW31D	T	75.4/61.7
Eqv.	4030023090	S.CER 0402B102K500CT			C217	4030017460	S.CER C1005 JB 1H 102K-T	T	64.8/42.7
C147	4030016930	S.CER C1005 JB 1A 104K-T	T	73.7/22.8	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030022940	S.CER 0402B104K100CT			Eqv.	4030026210	S.CER MG15B102K500CT		
C148	4030026190	S.CER MG15B104K100CT			C218	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/42.8
C150	4510010010	S.ELE 25 CE 220 LX	T	32.0/14.5	C219	4030018890	S.CER C1005 JB 0J 224K-T	T	72.5/24.9
C151	4030017460	S.CER C1005 JB 1H 102K-T	B	22.7/46.2	C220	4030017460	S.CER C1005 JB 1H 102K-T	T	66.3/42.8
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C152	4030017460	S.CER C1005 JB 1H 102K-T	T	23.2/51.5	Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			C221	4030017460	S.CER C1005 JB 1H 102K-T	B	88.7/19.0
C153	4030026210	S.CER MG15B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C156	4030017460	S.CER C1005 JB 1H 102K-T	B	13.3/42.7	Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			C222	4030019410	S.CER GRM31A7U2J471JW31D	T	75.4/59.6
Eqv.	4030026210	S.CER MG15B102K500CT			C223	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/44.5
C157	4030017460	S.CER C1005 JB 1H 102K-T	B	85.2/25.2	C224	4030022920	S.CER 0402N820J500CT	B	89.4/22.4
Eqv.	4030023090	S.CER 0402B102K500CT			C225	4510010010	S.ELE 25 CE 220 LX	T	81.0/66.9
C158	4030026210	S.CER MG15B102K500CT			C226	4030017460	S.CER C1005 JB 1H 102K-T	T	79.0/23.2
Eqv.	4030022860	S.CER 0402N470J500CT	T	33.9/51.0	Eqv.	4030023090	S.CER 0402B102K500CT		
C159	4030022640	S.CER 0402N101J500CT	T	27.7/52.0	Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026140	S.CER MG15N101J500CT			C227	4030022620	S.CER 0402N0R5B500CT	B	90.6/22.9
C160	4030026140	S.CER MG15N101J500CT			C228	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/46.3
C161	4030017460	S.CER C1005 JB 1H 102K-T	T	25.1/50.3	C229	4030016790	S.CER C1005 JB 1E 103K-T	B	89.8/13.6
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030023030	S.CER 0402B103K250CT		
C162	4030026210	S.CER MG15B102K500CT			Eqv.	4030026200	S.CER MG15B103K250CT		
Eqv.	4030019990	S.CER C1005 JB 1C 104K-T	B	88.6/14.6	C230	4030017460	S.CER C1005 JB 1H 102K-T	T	76.9/22.0
Eqv.	4030023010	S.CER 0402B104K160CT			Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026220	S.CER MG15B104K160CT			Eqv.	4030026210	S.CER MG15B102K500CT		
C163	4030017460	S.CER C1005 JB 1H 102K-T	T	33.9/51.9	C232	4030016930	S.CER C1005 JB 1A 104K-T	B	91.8/18.1
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030022940	S.CER 0402B104K100CT		
C164	4510010230	S.ELE 10 CE 1000 LX	T	12.6/23.5	Eqv.	4030026190	S.CER MG15B104K100CT		
C165	4030019560	S.CER GRM21BB31C106KE15L	B	13.6/44.1	C234	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/48.0
C166	4030017460	S.CER C1005 JB 1H 102K-T	B	87.1/10.3	C236	4030022920	S.CER 0402N820J500CT	B	91.8/22.4
Eqv.	4030023090	S.CER 0402B102K500CT			C237	4030022310	S.CER GQM2195C2E680JB12D	T	72.4/49.8
Eqv.	4030026210	S.CER MG15B102K500CT			C238	4030026700	S.CER RF15N1R0B500CT	B	92.7/22.4
C167	4030026760	S.CER RF15N8R0C500CT	B	87.4/11.6	C239	4030022330	S.CER GQM2195C2E330JB12D	T	74.2/51.5
C170	4030019990	S.CER C1005 JB 1C 104K-T	B	7.9/22.2	C240	4030017460	S.CER C1005 JB 1H 102K-T	T	77.0/29.7
Eqv.	4030023010	S.CER 0402B104K160CT			Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026220	S.CER MG15B104K160CT			Eqv.	4030026210	S.CER MG15B102K500CT		
C171	4030017460	S.CER C1005 JB 1H 102K-T	B	46.7/30.9	C242	4030022720	S.CER 0402N1R5B500CT	B	94.0/22.9
Eqv.	4030023090	S.CER 0402B102K500CT			C243	4030017460	S.CER C1005 JB 1H 102K-T	T	68.2/22.1
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C172	4030017460	S.CER C1005 JB 1H 102K-T	T	36.9/66.9	Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			C247	4030017460	S.CER C1005 JB 1H 102K-T	B	95.6/18.5
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C174	4030016790	S.CER C1005 JB 1E 103K-T	B	86.3/15.4	Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030023030	S.CER 0402B103K250CT			C249	4030022920	S.CER 0402N820J500CT	B	95.2/22.4
Eqv.	4030026200	S.CER MG15B103K250CT			C250	4030017460	S.CER C1005 JB 1H 102K-T	B	96.1/22.4
C175	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/11.0	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030023030	S.CER 0402B103K250CT			Eqv.	4030026210	S.CER MG15B102K500CT		
C177	4030017460	S.CER C1005 JB 1H 102K-T	B	14.6/48.5	C251	4030016790	S.CER C1005 JB 1E 103K-T	B	100.4/20.5
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030026200	S.CER MG15B103K250CT		
C178	4030017460	S.CER C1005 JB 1H 102K-T	T	13.1/51.5	C254	4030020770	S.CER GRM31A5C2J330JW01D	T	80.2/47.6
Eqv.	4030023090	S.CER 0402B102K500CT			C255	4030017460	S.CER C1005 JB 1H 102K-T	T	81.6/31.8
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C179	4030026210	S.CER MG15B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030017460	S.CER C1005 JB 1H 102K-T	T	37.9/62.1	C256	4030017460	S.CER C1005 JB 1H 102K-T	B	102.2/20.5
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
C182	4030023200	S.CER 0402B471K500CT	T	17.3/52.2	C257	4030017460	S.CER C1005 JB 1H 102K-T	T	81.3/30.6
C184	4030017460	S.CER C1005 JB 1H 102K-T	T	17.3/53.1	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT			C258	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/22.0
C187	4030017580	S.CER C1005 CH 1H 060C-T	B	84.3/15.3	Eqv.	4030023090	S.CER 0402B102K500CT		
C189	4030023760	S.CER 0603N680J500CT	B	40.5/52.1	Eqv.	4030026210	S.CER MG15B102K500CT		
C190	4030023760	S.CER 0603N680J500CT	B	40.5/57.2	C260	4030024610	S.CER GRM31A5C2J5R0CW01D	T	95.7/49.8
C191	4030024550	S.CER 0402N3R5B500CT	B	80.4/23.3	C261	4030020000	S.CER C1005 JB 1A 105K-T	B	97.9/22.0
C192	4030023900	S.CER 0603B152K500CT	B	45.					

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**[MAIN UNIT] (For [#05], [#06], [#10], [#13], [#17], and [#20])**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C267	4030017460	S.CER C1005 JB 1H 102K-T	T	80.1/30.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C269	4030019990	S.CER C1005 JB 1C 104K-T	T	82.3/26.0
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C270	4030026580	S.CER RF15N150J500CT	B	106.3/23.4
C271	4030017460	S.CER C1005 JB 1H 102K-T	T	78.9/30.6
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C272	4030024600	S.CER GRM31A5C2J4R0CW01D	T	92.1/43.5
C274	4030024600	S.CER GRM31A5C2J4R0CW01D	T	92.1/41.4
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	86.4/27.9
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C276	4030017460	S.CER C1005 JB 1H 102K-T	B	112.0/19.5
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C277	4030017460	S.CER C1005 JB 1H 102K-T	T	84.7/26.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C278	4030024600	S.CER GRM31A5C2J4R0CW01D	T	92.1/39.3
C279	4030022920	S.CER 0402N820J500CT	B	110.8/21.5
C280	4030017460	S.CER C1005 JB 1H 102K-T	T	89.0/37.7
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C281	4030018940	S.CER GRM31A7U2J331JW31D	T	98.1/35.9
C282	4030018940	S.CER GRM31A7U2J331JW31D	T	96.0/35.9
C283	4030018940	S.CER GRM31A7U2J331JW31D	T	93.7/35.9
C284	4030017460	S.CER C1005 JB 1H 102K-T	T	68.7/24.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C285	4030019990	S.CER C1005 JB 1C 104K-T	T	86.4/28.8
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C287	4030017380	S.CER C1005 CH 1H 050B-T	B	110.8/23.1
C288	4030019420	S.CER GRM31A7U2J102JW31D	T	104.3/32.0
C291	4030020740	S.CER GRM31A5C2J180JW01D	B	104.3/34.6
C292	4030017460	S.CER C1005 JB 1H 102K-T	B	111.2/26.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C293	4030022720	S.CER 0402N1R5B500CT	T	110.2/23.1
C295	4030024580	S.CER GRM31A5C2J1R0CW01D	B	109.1/41.9
C296	4030023480	S.CER 0603N120J500CT	B	104.7/41.5
C297	4030021200	S.CER GRM31A5C2J120JW01D	B	104.3/37.2
C298	4030020760	S.CER GRM31A5C2J270JW01D	B	104.3/39.8
C299	4030017460	S.CER C1005 JB 1H 102K-T	B	101.9/42.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C300	4030020760	S.CER GRM31A5C2J270JW01D	B	100.3/51.6
C301	4030021200	S.CER GRM31A5C2J120JW01D	B	100.3/53.7
C302	4030026590	S.CER RF15N180J500CT	T	108.8/26.9
C303	4030024580	S.CER GRM31A5C2J1R0CW01D	B	103.4/47.8
C304	4030023480	S.CER 0603N120J500CT	B	99.4/49.4
C305	4030024590	S.CER GRM31A5C2J3R0CW01D	T	98.7/29.9
C306	4030020770	S.CER GRM31A5C2J330JW01D	B	100.3/56.9
C307	4030021210	S.CER GRM31A5C2J150JW01D	B	104.2/63.1
C308	4030023140	S.CER 0402B271K500CT	B	98.6/4.1
C309	4030017460	S.CER C1005 JB 1H 102K-T	T	97.9/1.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C310	4030019990	S.CER C1005 JB 1C 104K-T	T	108.0/8.8
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C311	4030019990	S.CER C1005 JB 1C 104K-T	T	99.7/5.6
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C312	4030019990	S.CER C1005 JB 1C 104K-T	T	100.0/11.8
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C313	4030019990	S.CER C1005 JB 1C 104K-T	T	111.5/10.0
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C314	4030023490	S.CER 0603N121J500CT	B	48.9/48.9
C315	4030023490	S.CER 0603N121J500CT	B	48.9/60.5
C319	4510010010	S.ELE 25 CE 220 LX	T	22.4/16.6
C321	4030020000	S.CER C1005 JB 1A 105K-T	T	23.2/52.4
C322	4030019990	S.CER C1005 JB 1C 104K-T	B	14.6/16.5
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C323	4030020780	S.CER GRM31A5C2J470JW01D	T	86.3/45.6
C332	4550007090	S.TAN TEESVA 1A 226M8R	T	68.5/10.7
Eqv.	4550008160	S.TAN F931A226MAA		
Eqv.	4550009110	S.TAN 267E1002226MR533		
C333	4030023070	S.CER 0402B223K250CT	B	25.6/3.6
C334	4030019460	S.CER C1608 JB 0J 106M-T	T	71.7/16.4
J1	6510028390	S.CON 04-6294-036-000-800	T	9.0/4.3
J2	6510014961	S.CON B2B-ZR-SM4-TF(LF)(SN)	T	8.9/56.5
J3	6510025940	CON PJ-3047S		
W1	8900011882	CAB OPC-1210A-1(P0.5N36L70)		
W2	7030014230	JUM RJ20S0OHHM		
W6	8900022720	CAB OPC-2432		
EP3	6910018460	S.BEA MMZ1005Y102C-T	T	24.8/51.5
EP4	6910014730	S.BEA MPZ2012S331A-T	T	34.7/64.6
EP5	6910020610	S.BEA BLM15BD102SN1D	B	45.7/26.3

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= Shows mounting location on the PCB.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[MAIN-A UNIT] (For [#36], [#40], [#43], [#47], and [#50])**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION	REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
IC2	1130011760	S.IC CD4094BPWR	B	44.3/4.4	D6	1750000571	S.DIO 1SS381(TPH3F)	T	99.7/10.2
IC3	1110007720	S.IC AA32416A	B	95.9/11.4	Eqv.	1750001700	S.DIO HSC277TRF-E		
IC4	1130007021	S.IC TC7566FU(TE85LF)	T	57.1/17.6	Eqv.	1750001790	S.DIO 1SS390 TE61		
IC5	1110007550	S.IC R2A20178NP	T	74.3/12.8	Eqv.	1750002480	S.DIO 1SS390		
IC6	1180001252	S.IC TA7808F(TE16L1NQ)	B	10.0/38.9	Eqv.	1750004030	S.DIO 1SS390SMT2R		
Eqv.	1180003500	S.REG NJM7808DL1A-TE1			D7	1750000721	S.VAR HVC375BTRF-E	B	43.1/15.8
IC7	1110003091	IC LA4425A-E			D8	1750000721	S.VAR HVC375BTRF-E	B	44.9/13.6
IC8	1180004640	S.REG XC6701D502JR-G	B	11.2/48.5	D9	1750003950	S.VAR JDV2S10FS(TPL3)	B	41.5/13.4
IC9	1110006470	S.IC LMV3241PWR	T	77.9/26.5	D10	1750000721	S.VAR HVC375BTRF-E	B	43.4/20.2
IC10	1110008530	S.IC BGA2869115	B	41.8/26.3	D11	1750000721	S.VAR HVC375BTRF-E	B	43.9/18.4
IC11	1180004740	S.REG S-1313D33-M5T1U3	B	67.3/13.2	D12	1750001910	S.DIO HVD144AKRF-E	B	45.3/29.1
					D13	1750001910	S.DIO HVD144AKRF-E	B	43.7/29.8
					D16	1790001950	S.VAR VC060318A400RP	T	37.0/67.9
Q1	1530002851	S.TRA 2SC4116-BL(TE85RF)	T	88.4/14.8	D17	1750000370	S.DIO DA221 TL	B	85.2/9.1
Eqv.	1530002852	S.TRA 2SC4116-BLLF			Eqv.	1750001820	S.DIO LRB706F-40T1G		
Q2	1530004140	S.TRA L2SC4081RT1G	B	15.5/30.8	D19	1710001450	DIO P6KE18AHE3/54		
Eqv.	1530004690	S.TRA L2SC4081 R			D22	1750000711	S.VAR HVC350BTRF-E	B	95.0/20.4
Q3	1510000591	S.TRA 2SA1362-Y(TE85LF)	B	15.8/33.8	D23	1750000711	S.VAR HVC350BTRF-E	B	112.4/20.8
Q4	1590002430	S.TRA DTA144EE TL	T	99.3/3.9	D24	1750002190	S.DIO JDP2S12CR(TE85LQ)	T	101.2/36.2
Eqv.	1590004050	S.TRA LDTA144EET1G			D25	1750002190	S.DIO JDP2S12CR(TE85LQ)	T	101.2/34.1
Eqv.	1590005860	S.TRA DTA144EE			D26	1750001810	S.DIO L1SS400T1G	B	109.6/25.1
Q5	1530004140	S.TRA L2SC4081RT1G	B	35.0/29.9	Eqv.	1750004690	S.DIO 1SS400		
Eqv.	1530004690	S.TRA 2SC4081 R			D27	1750000370	S.DIO DA221 TL	B	104.9/43.4
Q6	1530004140	S.TRA L2SC4081RT1G	B	29.7/15.6	Eqv.	1750001820	S.DIO LRB706F-40T1G		
Eqv.	1530004690	S.TRA 2SC4081 R			D28	1750001810	S.DIO L1SS400T1G	T	108.0/20.4
Q7	1530004140	S.TRA L2SC4081RT1G	B	31.7/17.7	Eqv.	1750004690	S.DIO 1SS400		
Eqv.	1530004690	S.TRA 2SC4081 R			D29	1750000581	S.DIO 1SV307(TPH3F)	T	112.9/22.7
Q8	1590004040	S.TRA LDTA123YET1G	B	31.8/21.3	D30	1750000581	S.DIO 1SV307(TPH3F)	T	113.3/32.5
Q9	1590001940	S.TRA DTC144EE TL	B	88.9/6.5	D31	1750000581	S.DIO 1SV307(TPH3F)	T	113.3/30.8
Eqv.	1590004070	S.TRA LDTC144EET1G			D32	1750000581	S.DIO 1SV307(TPH3F)	T	113.3/29.0
Eqv.	1590005870	S.TRA DTC144EE			D33	1750000370	S.DIO DA221 TL	B	99.5/47.1
Q10	1560000541	S.FET 2SK880-Y(T5R1COMF)	T	56.9/13.1	Eqv.	1750001820	S.DIO LRB706F-40T1G		
Q11	1590001940	S.TRA DTC144EE TL	T	43.9/11.9	D34	1750001780	S.VAR HVB350BYPTL-E	B	90.5/20.0
Eqv.	1590004070	S.TRA LDTC144EET1G			D35	1750001810	S.DIO L1SS400T1G	T	99.8/22.5
Eqv.	1590005870	S.TRA DTC144EE			Eqv.	1750004690	S.DIO 1SS400		
Q12	1590004040	S.TRA LDTA123YET1G	B	11.0/29.4	F11	2020002380	CER LT450FW		
Q13	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	34.8/15.7	F12	2020002510	CER LTW450HT		
Q14	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	36.3/21.1	F13	20300000870	S.MON FL-442 (46.350 MHz)	B	80.6/14.0
Q15	1590003490	S.TRA DTA113ZE TL	B	11.0/31.5					
Q16	1590001940	S.TRA DTC144EE TL	B	12.3/33.6	X1	6050013971	S.XTA CR-996A (15.3 MHz)	T	64.0/14.1
Eqv.	1590004070	S.TRA LDTC144EET1G			X2	6070000380	S.DIS JTBM450CX24-A	T	93.5/5.2
Eqv.	1590005870	S.TRA DTC144EE							
Q17	1530003321	S.TRA 2SC5108-Y(TE85RF)	B	34.4/25.7	L1	6190002030	S.COI MLG1608S 1R0J-T	T	90.4/15.5
Q20	1530003091	S.TRA 2SC4213-B(TE85RF)	B	21.1/4.3	L2	6200012170	S.COI MLG1608S 1R8J-T	T	93.2/14.8
Q21	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	T	22.6/45.2	L3	6200013740	S.COI MLG1608S R47J-T	B	44.9/16.1
Q22	1560001241	S.FET RD01MUS1-T113	T	30.4/49.4	L4	6200013740	S.COI MLG1608S R47J-T	B	45.2/19.8
Q23	1520000201	S.TRA 2SB798-T1-AZ DK	B	19.0/52.5	L5	6200011050	S.COI C2012C-R12G-A	B	39.8/14.5
Eqv.	1520000460	S.TRA 2SB1132 T100 R			L6	6200009890	S.COI C2012C-82NG-A	B	41.1/19.1
Eqv.	1520000910	S.TRA 2SB1132L-R-AB3-R			L7	6200011031	S.COI ELJRF R10JFB	B	36.9/26.1
Q24	1520000201	S.TRA 2SB798-T1-AZ DK	B	19.0/44.7	L11	6200016340	S.COI LQW15AN39NJ00D	B	44.3/28.4
Eqv.	1520000460	S.TRA 2SB1132 T100 R			L12	6200013770	S.COI MLK1005S68NJT	T	21.5/47.0
Eqv.	1520000910	S.TRA 2SB1132L-R-AB3-R			L13	6200013820	S.COI MLK1005S27NJT	T	26.4/52.4
Q25	1590004690	S.TRA LDTC143ZET1G	B	21.1/39.0	L14	6200013100	S.COI 0.45-1.5-5TL 18.3N	T	35.4/61.0
Eqv.	1590005890	S.TRA DTC143ZE			L15	6190002030	S.COI MLG1608S 1R0J-T	B	88.7/12.9
Q26	1560001771	S.FET RD04HMS2-T214	T	29.6/55.9	L22	6200011031	S.COI ELJRF R10JFB	B	81.6/23.9
Q27	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	86.7/13.6	L23	6200012860	S.COI 0.20-0.7-4TR 6.5N	B	44.7/51.6
Q28	1580000731	S.FET 3SK293(TE85LF)	B	82.4/21.6	L24	6200012860	S.COI 0.20-0.7-4TR 6.5N	B	44.7/57.9
Q29	1560001780	S.FET RD70HUF2-T1105	B	60.0/54.7	L25	6200011090	S.COI C2012C-R56J-2A	B	77.9/20.3
Q31	1590002430	S.TRA DTA144EE TL	T	71.1/22.7	L26	6200010160	S.COI AS080440-22N	T	80.6/60.2
Eqv.	1590004050	S.TRA LDTA144EET1G			L27	6200009890	S.COI C2012C-82NG-A	T	89.4/21.7
Eqv.	1590005860	S.TRA DTA144EE			L28	6200009890	S.COI C2012C-82NG-A	T	92.7/12.7
Q32	1580000731	S.FET 3SK293(TE85LF)	B	102.1/22.6	L29	6110004080	COI LA-630		
Q33	1560001790	S.FET LN2306LT1G	T	27.2/9.8	L30	6200009930	S.COI C2012C-68NG-A	T	97.5/22.4
Q34	1590001940	S.TRA DTC144EE TL	T	29.0/7.0	L31	6200010150	S.COI AS080340-15N	T	89.6/48.3
Eqv.	1590004070	S.TRA LDTC144EET1G			L32	6200009920	S.COI C2012C-R10G-A	B	108.7/23.4
Eqv.	1590005870	S.TRA DTC144EE			L33	6200010420	S.COI FHW1210HC 1R0JGT	T	90.5/35.3
Q35	1560001790	S.FET LN2306LT1G	T	25.5/6.6	L34	6200012460	S.COI 0.30-1.7-8TL 54N	T	111.2/19.7
Q36	1560001850	S.FET RQK0303MGDQA	T	21.1/23.0	L36	6200010050	S.COI AS080547-47N	B	110.0/37.2
Q37	1560001850	S.FET RQK0303MGDQA	T	20.4/26.4	L37	6200012760	S.COI 0.35-1.6-7TL 37.5N	T	111.5/26.3
Q38	1590002310	S.TRA DTC114EE TL	T	23.8/23.9	L38	6200007370	S.COI ELJFC R82K-F	B	100.8/44.5
Eqv.	1590004060	S.TRA LDTC114EET1G			L39	6200010050	S.COI AS080547-47N	B	110.1/45.7
Eqv.	1590005970	S.TRA DTC114EE			L40	6200010060	S.COI AS080647-56N	T	108.5/36.2
Q39	1590001940	S.TRA DTC144EE TL	B	10.8/27.4	L41	6200010060	S.COI AS080647-56N	B	107.9/52.5
Eqv.	1590004070	S.TRA LDTC144EET1G			L42	6200010060	S.COI AS080647-56N	B	107.0/58.8
Eqv.	1590005870	S.TRA DTC144EE							
Q40	1530003321	S.TRA 2SC5108-Y(TE85RF)	B	40.4/24.0	R2	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	59.0/10.4
					R4	7030016450	S.RES RMC1/16S-824JTH (820 k)	T	69.4/15.2
D1	1750000571	S.DIO 1SS381(TPH3F)	T	104.2/9.2	R5	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	68.2/14.9
Eqv.	1750001700	S.DIO HSC277TRF-E			R6	7030015910	S.RES RMC1/16S-101JTH (100)	T	67.3/14.2
Eqv.	1750001790	S.DIO 1SS390 TE61			R7	7030016230	S.RES RMC1/16S-394JTH (390 k)	T	66.4/14.9
Eqv.	1750002480	S.DIO 1SS390			R9	7030016230	S.RES RMC1/16S-394JTH (390 k)	T	66.4/16.5
Eqv.	1750004030	S.DIO 1SS390SMT2R			R10	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	16.7/28.5
D2	1750000571	S.DIO 1SS381(TPH3F)	T	108.6/9.8	R11	7030016050	S.RES RMC1/16S-102JTH (1 k)	T	88.4/11.8
Eqv.	1750001700	S.DIO HSC277TRF-E			R12	7030016240	S.RES RMC1/16S-684JTH (680 k)	T	87.9/16.5
Eqv.	1750001790	S.DIO 1SS390 TE61			R13	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	13.8/33.8
Eqv.	1750002480	S.DIO 1SS390			R14	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	13.8/32.2
Eqv.	1750004030	S.DIO 1SS390SMT2R			R16	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	60.3/15.6
D3	1750001810	S.DIO L1SS400T1G	B	56.8/20.5	R17	7030016380	S.RES RMC1/16S-183JTH (18 k)	T	102.2/9.1
Eqv.	1750004690	S.DIO 1SS400			R22	7030016380	S.RES RMC1/16S-183JTH (18 k)	T	110.3/9.5
D4	1750001810	S.DIO L1SS400T1G	B	33.1/30.0	R23	7030016380	S.RES RMC1/16S-183JTH (18 k)	T	106.8/9.1
Eqv.	1750004690	S.DIO 1SS400			R25	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	B	32.1/29.3
D5	1750000571	S.DIO 1SS381(TPH3F)	T	99.7/7.7	R26	7030016090	S.RES RMC1/16S-223JTH (22 k)	B	54.9/20.3
Eqv.	1750001700	S.DIO HSC277TRF-E			R27	7030016090	S.RES RMC1/16S-223JTH (22 k)	B	30.3/13.3
Eqv.	1750001790	S.DIO 1SS390 TE61			R28	7030016380	S.RES RMC1/16S-183JTH (18 k)	T	98.6/6.2
Eqv.	1750002480	S.DIO 1SS390			R29	7030016310	S.RES RMC1/16S-155JTH (1.5 M)	B	53.1/20.5
Eqv.	1750004030	S.DIO 1SS390SMT2R			R31	7030016380	S.RES RMC1/16S-183JTH (18 k)	T	99.1/13.0

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

The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[MAIN-A UNIT] (For [#36], [#40], [#43], [#47], and [#50])**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION	REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
R32	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	99.9/1.5	R156	7030012710	S.RES ERA2AEB 273X (27 k)	T	80.1/32.7
R33	7030016380	S.RES RMC1/16S-183JTH (18 k)	T	98.2/9.3	R159	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	96.1/20.8
R34	7410001220	S.ARR EXB28V103JX	B	62.3/18.4	R160	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	83.5/24.9
R36	7030016050	S.RES RMC1/16S-102JTH (1 k)	B	31.8/19.5	R161	7030015900	S.RES RMC1/16S-470JTH (47)	B	97.9/23.6
R37	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	98.9/8.1	R162	7030016410	S.RES RMC1/16S-561JTH (560)	B	100.1/22.6
R38	7030015950	S.RES RMC1/16S-152JTH (1.5 k)	T	100.0/13.2	R163	7030016050	S.RES RMC1/16S-102JTH (1 k)	T	82.3/24.4
R39	7030016430	S.RES RMC1/16S-392JTH (3.9 k)	B	97.2/6.2	R164	7030015910	S.RES RMC1/16S-101JTH (100)	B	101.3/20.5
R40	7030016090	S.RES RMC1/16S-223JTH (22 k)	B	99.2/5.3	R165	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	83.2/23.7
R41	7030015930	S.RES RMC1/16S-471JTH (470)	B	93.3/7.7	R166	7030012260	S.RES ERJ2RKD 4703X (470 k)	T	81.3/29.7
R43	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	43.3/7.7	Eqv.	7030016740	S.RES RMC1/16SK474DTH (470 k)		
R44	7030016350	S.RES RMC1/16S-122JTH (1.2 k)	T	53.8/17.1	R167	7030016770	S.RES RMC1/16SK334DTH (330 k)	B	82.5/30.2
R46	7030016050	S.RES RMC1/16S-102JTH (1 k)	T	57.1/14.8	R169	7030016040	S.RES RMC1/16S-224JTH (220 k)	T	105.8/20.4
R47	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	B	90.8/6.5	R170	7030012260	S.RES ERJ2RKD 4703X (470 k)	T	84.3/28.5
R48	7030016350	S.RES RMC1/16S-122JTH (1.2 k)	T	52.2/17.1	Eqv.	7030016740	S.RES RMC1/16SK474DTH (470 k)		
R49	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	90.7/10.2	R173	7030016380	S.RES RMC1/16S-183JTH (18 k)	B	106.3/21.6
R50	7030015920	S.RES RMC1/16S-221JTH (220)	T	52.2/18.0	R174	7030012700	S.RES ERA2AEB 392X (3.9 k)	T	78.9/29.7
R51	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	59.1/13.3	R175	7030012700	S.RES ERA2AEB 392X (3.9 k)	T	83.4/27.0
R53	7030015920	S.RES RMC1/16S-221JTH (220)	B	89.5/10.1	R176	7030016560	S.RES RMC1/16SJPTH	T	85.5/29.7
R54	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	58.3/20.3	R177	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	105.1/22.6
R55	7030015950	S.RES RMC1/16S-152JTH (1.5 k)	T	49.7/17.5	R178	7030016140	S.RES RMC1/16S-124JTH (120 k)	B	104.2/22.6
R56	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	55.0/13.5	R179	7030012710	S.RES ERA2AEB 273X (27 k)	T	85.2/28.5
R57	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	B	91.2/9.0	R180	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	70.4/24.3
R58	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	46.1/12.7	R181	7030016190	S.RES RMC1/16S-273JTH (27 k)	T	83.5/25.8
R59	7030015980	S.RES RMC1/16S-333JTH (33 k)	T	47.3/13.2	R182	7030006070	S.RES ERJ12VJ101U (100)	T	85.4/35.2
R60	7030016050	S.RES RMC1/16S-102JTH (1 k)	T	46.8/18.4	R183	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	110.8/19.9
R61	7030016200	S.RES RMC1/16S-274JTH (270 k)	T	44.5/17.6	R184	7030015960	S.RES RMC1/16S-472JTH (47 k)	T	68.7/23.4
R62	7030016330	S.RES RMC1/16S-153JTH (15 k)	T	44.1/16.4	R185	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	111.6/25.1
R63	7030012260	S.RES ERJ2RKD 4703X (470 k)	T	45.7/14.1	R186	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	B	103.5/45.2
Eqv.	7030016740	S.RES RMC1/16SK474DTH (470 k)			R187	7030016080	S.RES RMC1/16S-822JTH (8.2 k)	B	102.3/46.3
R64	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	42.4/14.2	R188	7030016000	S.RES RMC1/16S-823JTH (82 k)	B	112.2/62.6
R65	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	74.6/8.2	R189	7030016250	S.RES RMC1/16S-220JTH (220)	B	51.7/15.5
R66	7030011180	S.RES RR0510P-391-D (390)	B	34.0/17.6	R191	7030016430	S.RES RMC1/16S-392JTH (3.9 k)	B	98.1/3.2
R67	7030008260	S.RES RR0510P-393-D (39 k)	B	36.6/13.7	R192	7030016050	S.RES RMC1/16S-102JTH (1 k)	T	98.3/4.2
R68	7030005820	S.RES RR0510P-103-D (10 k)	B	36.6/15.3	R195	7030008240	S.RES ERJ12V0R00U	T	37.7/56.1
R69	7030008260	S.RES RR0510P-393-D (39 k)	B	38.0/19.0	R196	7030015530	S.RES RMC1/16-5R6JTP (5.6)	B	48.9/51.3
R70	7030005820	S.RES RR0510P-103-D (10 k)	B	38.0/20.6	R197	7030015530	S.RES RMC1/16-5R6JTP (5.6)	B	48.9/58.1
R71	7030012340	S.RES RR0510P-821-D	B	32.8/13.4	R198	7030016150	S.RES RMC1/16S-100JTH (10)	B	106.3/22.5
R72	7030015930	S.RES RMC1/16S-471JTH (470)	T	73.3/8.6	R199	7030016340	S.RES RMC1/16S-393JTH (39 k)	T	47.5/61.8
R73	7030012340	S.RES RR0510P-821-D	B	36.7/18.0	R200	7030016340	S.RES RMC1/16S-393JTH (39 k)	T	47.5/47.6
R74	7030011180	S.RES RR0510P-391-D (390)	B	34.2/22.0	R201	7030016560	S.RES RMC1/16SJPTH	B	51.4/43.6
R76	7030016140	S.RES RMC1/16S-124JTH (120 k)	B	36.0/25.2	R202	7030016560	S.RES RMC1/16SJPTH	B	78.0/23.3
R78	7030016270	S.RES RMC1/16S-151JTH (150)	B	36.0/26.8	R204	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	75.6/8.2
R79	7030016500	S.RES RMC1/16S-562JTH (5.6 k)	T	76.6/8.0	R206	7030012260	S.RES ERJ2RKD 4703X (470 k)	B	18.6/41.0
R80	7030016500	S.RES RMC1/16S-562JTH (5.6 k)	T	76.6/6.4	Eqv.	7030016740	S.RES RMC1/16SK474DTH (470 k)		
R84	7030016280	S.RES RMC1/16S-331JTH (330)	B	38.7/26.1	R207	7030016750	S.RES RMC1/16SK124DTH (120 k)	B	18.6/39.4
R85	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	25.5/5.0	R208	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	40.7/5.9
R86	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	B	44.8/30.8	R209	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	27.5/5.6
R87	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	T	21.7/39.2	R210	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	25.7/11.3
R88	7030016210	S.RES RMC1/16S-121JTH (120)	T	23.2/40.8	R211	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	29.5/8.4
R89	7030015900	S.RES RMC1/16S-470JTH (47)	T	22.0/41.3	R212	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	21.4/40.7
R90	7030016100	S.RES RMC1/16S-334JTH (330 k)	B	18.8/2.9	R213	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	21.2/49.0
R91	7030016210	S.RES RMC1/16S-121JTH (120)	T	23.2/41.7	R214	7030015910	S.RES RMC1/16S-101JTH (100)	T	21.5/48.0
R92	7030016190	S.RES RMC1/16S-273JTH (27 k)	B	24.4/1.4	R215	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	22.9/25.4
R93	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	19.2/4.1	R216	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	19.4/21.5
R94	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	T	20.4/43.6	R217	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	23.3/22.2
R96	7030015910	S.RES RMC1/16S-101JTH (100)	T	21.9/49.2	R218	7030015670	S.RES RMC1/10-4R7JTP (4.7)	B	14.3/18.9
R97	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	T	20.9/44.8	R220	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	95.9/10.2
R98	7030016460	S.RES RMC1/16S-181JTH (180)	T	24.7/44.5	R225	7030016560	S.RES RMC1/16SJPTH	T	75.4/29.7
R99	7030016190	S.RES RMC1/16S-273JTH (27 k)	T	33.9/49.2	R231	7030016180	S.RES RMC1/16S-680JTH (68)	B	38.2/27.7
R100	7030015980	S.RES RMC1/16S-333JTH (33 k)	T	33.9/47.4	R233	7030016330	S.RES RMC1/16S-153JTH (15 k)	B	71.5/9.0
R102	7030016180	S.RES RMC1/16S-680JTH (68)	T	32.9/46.5	R234	7030016190	S.RES RMC1/16S-273JTH (27 k)	B	24.3/5.6
R105	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	21.4/41.6	R235	7030016050	S.RES RMC1/16S-102JTH (1 k)	T	64.8/44.3
R106	7030016090	S.RES RMC1/16S-223JTH (22 k)	T	33.9/50.1	R238	7030015970	S.RES RMC1/16S-103JTH (10 k)	B	61.1/15.8
R108	7030015910	S.RES RMC1/16S-101JTH (100)	T	26.4/51.5	R239	7030022270	S.RES TLR2BWDTD 6L00 F75	T	73.6/71.0
R109	7030015980	S.RES RMC1/16S-333JTH (33 k)	T	34.3/53.1	R240	7030016020	S.RES RMC1/16S-104JTH (100 k)	T	62.1/16.1
R110	7030016290	S.RES RMC1/16S-222JTH (2.2 k)	B	22.1/49.0	R241	7030016160	S.RES RMC1/16S-820JTH (82)	B	38.9/29.2
R111	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	19.0/56.1	R242	7030016050	S.RES RMC1/16S-102JTH (1 k)	B	44.2/24.9
R112	7030016110	S.RES RMC1/16S-473JTH (47 k)	B	19.8/41.5	R243	7030015990	S.RES RMC1/16S-683JTH (68 k)	B	38.0/24.3
R114	7030016250	S.RES RMC1/16S-220JTH (2.2 k)	T	33.4/53.1	R244	7030015910	S.RES RMC1/16S-101JTH (100)	B	38.9/23.4
R115	7030015960	S.RES RMC1/16S-472JTH (4.7 k)	B	78.0/24.2					
R116	7030015930	S.RES RMC1/16S-471JTH (470)	B	88.3/10.8	C2	4030017460	S.CER C1005 JB 1H 102K-T	B	53.8/8.3
R117	7030015670	S.RES RMC1/10-4R7JTP (4.7)	B	9.6/23.2	Eqv.	4030023090	S.CER 0402B102K500CT		
R118	7030016040	S.RES RMC1/16S-224JTH (220 k)	B	86.2/11.9	Eqv.	4030026210	S.CER MG15B102K500CT		
R119	7030016570	S.RES RMC1/16S-180JTH (18)	B	46.2/28.8	C3	4030020000	S.CER C1005 JB 1A 105K-T	T	70.0/14.0
R120	7030016180	S.RES RMC1/16S-680JTH (68)	B	46.7/30.0	C4	4030020000	S.CER C1005 JB 1A 105K-T	T	69.1/14.0
R121	7030016050	S.RES RMC1/16S-102JTH (1 k)	T	13.9/62.0	C8	4030019990	S.CER C1005 JB 1C 104K-T	T	66.4/13.3
R122	7030016410	S.RES RMC1/16S-561JTH (560)	B	83.2/9.0	Eqv.	4030023010	S.CER 0402B104K160CT		
R124	7030016570	S.RES RMC1/16S-180JTH (18)	B	47.1/28.8	Eqv.	4030026220	S.CER MG15B104K160CT		
R125	7030015920	S.RES RMC1/16S-221JTH (220)	T	72.5/23.3	C9	4030022640	S.CER 0402N101J500CT	T	86.3/16.5
R126	7030016150	S.RES RMC1/16S-100JTH (10)	B	77.8/18.3	Eqv.	4030026140	S.CER MG15N101J500CT		
R127	7030015900	S.RES RMC1/16S-470JTH (47)	B	85.2/23.6	C10	4030017460	S.CER C1005 JB 1H 102K-T	B	10.6/34.3
R128	7030015700	S.RES RMC1/10-220JTP (22)	T	48.7/50.9	Eqv.	4030023090	S.CER 0402B102K500CT		
R129	7030015530	S.RES RMC1/16-5R6JTP (5.6)	B	48.9/50.1	Eqv.	4030026210	S.CER MG15B102K500CT		
R130	7030015530	S.RES RMC1/16-5R6JTP (5.6)	B	48.9/59.3	C11	4030019990	S.CER C1005 JB 1C 104K-T	B	15.5/28.9
R131	7030016300	S.RES RMC1/16S-332JTH (3.3 k)	B	80.4/21.0	Eqv.	4030023010	S.CER 0402B104K160CT		
R132	7030015700	S.RES RMC1/10-220JTP (22)	T	48.7/58.6	Eqv.	4030026220	S.CER MG15B104K160CT		
R133	7030016180	S.RES RMC1/16S-680JTH (68)	B	83.3/19.5	C12	4030016790	S.CER C1005 JB 1E 103K-T	T	87.7/10.6
R134	7030016190	S.RES RMC1/16S-273JTH (27 k)	T	50.0/60.6	Eqv.	4030023030	S.CER 0402B103K250CT		
R135	7030016190	S.RES RMC1/16S-273JTH (27 k)	T	50.0/49.0	Eqv.	4030026200	S.CER MG15B103K250CT		
R136	7030016030	S.RES RMC1/16S-154JTH (150 k)	B	84.3/22.7	C13	4030017460	S.CER C1005 JB 1H 102K-T	T	61.7/13.3
R137	7030016020	S.RES RMC1/16S-104JTH (100 k)	B	84.3/21.1	Eqv.	4030023090	S.CER 0402B102K500CT		
R138	7030016140	S.RES RMC1/16S-124JTH (120 k)	B	85.2/21.9	Eqv.	4030026210	S.CER MG15B102K500CT		
R139	7030016000	S.RES RMC1/16S-823JTH (82 k)	B	87.3/21.6	C14	4030022560	S.CER 0402N5R		

The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[MAIN-A UNIT] (For [#36], [#40], [#43], [#47], and [#50])**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C19	4030016790	S.CER C1005 JB 1E 103K-T	B	66.8/8.3
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C21	4030022630	S.CER 0402N100C500CT	T	61.2/15.6
C22	4030017460	S.CER C1005 JB 1H 102K-T	B	53.3/5.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C23	4030017460	S.CER C1005 JB 1H 102K-T	B	68.3/5.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C24	4030017460	S.CER C1005 JB 1H 102K-T	B	56.1/13.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C26	4030026720	S.CER RF15N3R0B500CT	T	94.6/15.5
C27	4030017460	S.CER C1005 JB 1H 102K-T	B	61.8/8.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C29	4030016930	S.CER C1005 JB 1A 104K-T	B	40.9/7.7
Eqv.	4030022940	S.CER 0402B104K100CT		
Eqv.	4030026190	S.CER MG15B104K100CT		
C30	4030022980	S.CER 0402B473K100CT	T	111.5/9.1
C31	4030017460	S.CER C1005 JB 1H 102K-T	B	65.8/5.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C33	4030017460	S.CER C1005 JB 1H 102K-T	B	55.8/5.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C34	4030017460	S.CER C1005 JB 1H 102K-T	B	31.2/29.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C35	4030023200	S.CER 0402B471K500CT	B	54.0/20.3
C36	4030020000	S.CER C1005 JB 1A 105K-T	B	51.7/17.1
C37	4030022860	S.CER 0402N470J500CT	B	55.8/20.8
C40	4030017460	S.CER C1005 JB 1H 102K-T	B	29.4/13.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C41	4030019990	S.CER C1005 JB 1C 104K-T	B	60.5/20.1
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C42	4510009950	S.ELE EEEHC1C470P	T	29.6/32.5
C45	4030017460	S.CER C1005 JB 1H 102K-T	B	37.1/30.8
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C49	4030019990	S.CER C1005 JB 1C 104K-T	T	102.2/10.0
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C50	4030019990	S.CER C1005 JB 1C 104K-T	T	98.6/10.5
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C51	4030019990	S.CER C1005 JB 1C 104K-T	B	97.1/8.1
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C52	4030023160	S.CER 0402B331K500CT	B	99.3/6.9
C53	4030023160	S.CER 0402B331K500CT	B	98.4/6.9
C54	4030016790	S.CER C1005 JB 1E 103K-T	B	98.2/15.1
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C55	4030019560	S.CER GRM21BB31C106KE15L	T	91.6/10.7
C56	4030020000	S.CER C1005 JB 1A 105K-T	B	99.1/15.1
C57	4030017460	S.CER C1005 JB 1H 102K-T	T	90.0/10.1
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C58	4030017460	S.CER C1005 JB 1H 102K-T	B	93.7/6.5
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C59	4030017460	S.CER C1005 JB 1H 102K-T	T	57.1/15.7
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C60	4030017460	S.CER C1005 JB 1H 102K-T	B	94.2/7.7
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C61	4030019990	S.CER C1005 JB 1C 104K-T	B	87.3/6.5
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C62	4030017460	S.CER C1005 JB 1H 102K-T	B	91.6/12.6
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C63	4030019990	S.CER C1005 JB 1C 104K-T	T	56.3/19.8
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C64	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/14.7
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C65	4030019990	S.CER C1005 JB 1C 104K-T	T	58.3/15.3
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C66	4030019990	S.CER C1005 JB 1C 104K-T	B	91.3/7.7
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C67	4550000530	S.TAN TEESVA 1V 104M8R	T	53.5/14.1
Eqv.	45500008210	S.TAN 267M3502 104MR		
C68	4030017460	S.CER C1005 JB 1H 102K-T	T	59.1/12.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C69	4030022640	S.CER 0402N101J500CT	B	91.6/10.2
Eqv.	4030026140	S.CER MG15B101J500CT		
C70	4030022960	S.CER 0402B333K100CT	T	95.9/11.1
C71	4030017460	S.CER C1005 JB 1H 102K-T	T	58.3/19.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C74	4550002890	S.TAN TEESVA 1A 225M8R	T	49.3/14.1
Eqv.	4550007400	S.TAN F931A225MAABMA		
Eqv.	4550009270	S.TAN 267M1002225MR533		
C75	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/12.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C76	4030022860	S.CER 0402N470J500CT	T	43.6/17.6
C77	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/14.1
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C78	4030022860	S.CER 0402N470J500CT	B	47.1/19.4
C79	4030020000	S.CER C1005 JB 1A 105K-T	T	44.5/15.2
C80	4550000560	S.TAN TEESVA 1V 334M8R	B	46.6/14.9
Eqv.	4550007550	S.TAN F931V334MAABMA		
Eqv.	4550009170	S.TAN 267M3502334MR		
C81	4030016790	S.CER C1005 JB 1E 103K-T	B	91.0/13.8
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	13.0/29.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C83	4030022750	S.CER 0402N221J500CT	T	44.5/13.6
C85	4030023100	S.CER 0402B122K500CT	B	43.3/13.2
C86	4030022620	S.CER 0402NOR5B500CT	B	41.4/15.1
C87	4030017460	S.CER C1005 JB 1H 102K-T	B	34.0/18.5
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C88	4030017580	S.CER C1005 CH 1H 060C-T	B	39.2/20.2
C89	4030017580	S.CER C1005 CH 1H 060C-T	B	37.9/14.8
C90	4030017460	S.CER C1005 JB 1H 102K-T	B	92.4/7.0
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C91	4030016930	S.CER C1005 JB 1A 104K-T	T	73.4/16.9
Eqv.	4030022940	S.CER 0402B104K100CT		
Eqv.	4030026190	S.CER MG15B104K100CT		
C92	4030019990	S.CER C1005 JB 1C 104K-T	B	33.0/23.3
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C93	4030026750	S.CER RF15N7R0C500CT	B	34.9/13.8
C94	4030022860	S.CER 0402N470J500CT	B	33.7/13.4
C95	4030017380	S.CER C1005 CH 1H 050B-T	B	36.3/19.2
C96	4030022830	S.CER 0402N360J500CT	B	35.8/18.0
C97	4030016790	S.CER C1005 JB 1E 103K-T	T	72.8/7.4
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C98	4030016930	S.CER C1005 JB 1A 104K-T	T	75.7/17.3
Eqv.	4030022940	S.CER 0402B104K100CT		
Eqv.	4030026190	S.CER MG15B104K100CT		
C99	4030017460	S.CER C1005 JB 1H 102K-T	B	37.9/15.7
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C100	4030017460	S.CER C1005 JB 1H 102K-T	B	39.2/21.1
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C101	4030024490	S.CER 0402NR75B500CT	B	34.5/20.6
C102	4030019990	S.CER C1005 JB 1C 104K-T	B	37.0/16.6
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C103	4030017460	S.CER C1005 JB 1H 102K-T	B	34.2/22.9
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C104	4030024490	S.CER 0402NR75B500CT	B	33.1/15.3
C105	4030017460	S.CER C1005 JB 1H 102K-T	B	32.9/25.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C106	4030017460	S.CER C1005 JB 1H 102K-T	B	40.8/22.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C112	4030017460	S.CER C1005 JB 1H 102K-T	B	46.9/25.9
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C113	4030017460	S.CER C1005 JB 1H 102K-T	B	39.4/28.0
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C116	4030019560	S.CER GRM21BB31C106KE15L	T	78.0/6.1
C117	4030017460	S.CER C1005 JB 1H 102K-T	B	43.6/26.6
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG		

The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[MAIN-A UNIT] (For [#36], [#40], [#43], [#47], and [#50])**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION	REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C131	4030017460	S.CER C1005 JB 1H 102K-T	B	25.5/2.4	C196	4030017460	S.CER C1005 JB 1H 102K-T	B	77.5/22.4
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C132	4030017460	S.CER C1005 JB 1H 102K-T	B	17.7/40.0	Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			C197	4030023820	S.CER 0603B104K250CT	T	48.7/48.1
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030026170	S.CER MG18B104K250CT		
C134	4030022770	S.CER 0402N270J500CT	T	22.0/42.9	C198	4030016790	S.CER C1005 JB 1E 103K-T	T	84.1/23.7
C135	4030018900	S.CER C1005 JB OJ 474K-T	B	18.3/4.1	Eqv.	4030023030	S.CER 0402B103K250CT		
C137	4030017460	S.CER C1005 JB 1H 102K-T	T	36.0/49.8	Eqv.	4030026200	S.CER MG15B103K250CT		
Eqv.	4030023090	S.CER 0402B102K500CT			C199	4030026590	S.CER RF15N180J500CT	B	79.5/21.0
Eqv.	4030026210	S.CER MG15B102K500CT			C200	4030017460	S.CER C1005 JB 1H 102K-T	B	82.4/19.5
C138	4030017460	S.CER C1005 JB 1H 102K-T	T	19.8/49.6	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT			C201	4030023490	S.CER 0603N121J500CT	B	48.9/52.5
C139	4030017460	S.CER C1005 JB 1H 102K-T	T	24.7/43.6	C202	4030023490	S.CER 0603N121J500CT	B	48.9/56.9
Eqv.	4030023090	S.CER 0402B102K500CT			C204	4030023820	S.CER 0603B104K250CT	T	48.6/61.4
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030026170	S.CER MG18B104K250CT		
C140	4030023210	S.CER 0402B472K500CT	B	23.2/4.3	C205	4030017460	S.CER C1005 JB 1H 102K-T	B	82.8/23.3
C141	4030018900	S.CER C1005 JB OJ 474K-T	B	22.7/3.1	Eqv.	4030023090	S.CER 0402B102K500CT		
C142	4030022640	S.CER 0402N101J500CT	T	23.1/47.0	Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026140	S.CER MG15N101J500CT			C208	4030022220	S.CER GQM2195C2E390JB12D	B	74.0/43.7
C143	4030022860	S.CER 0402N470J500CT	B	36.3/50.7	C209	4030017380	S.CER C1005 CH 1H 050B-T	B	87.3/22.5
C144	4030023200	S.CER 0402B471K500CT	B	21.1/6.4	C210	4030017460	S.CER C1005 JB 1H 102K-T	T	51.2/48.6
C145	4030016790	S.CER C1005 JB 1E 103K-T	T	33.9/48.3	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030023030	S.CER 0402B103K250CT			Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026200	S.CER MG15B103K250CT			C211	4030019990	S.CER C1005 JB 1C 104K-T	T	77.8/22.0
C148	4030017460	S.CER C1005 JB 1H 102K-T	T	34.1/46.2	Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030026220	S.CER MG15B104K160CT		
Eqv.	4030026210	S.CER MG15B102K500CT			C213	4030026700	S.CER RF15N1R0B500CT	B	88.5/22.4
C149	4030016930	S.CER C1005 JB 1A 104K-T	T	73.7/22.8	C216	4030019410	S.CER GRM31A7U2J471JW31D	T	75.4/61.7
Eqv.	4030022940	S.CER 0402B104K100CT			C217	4030017460	S.CER C1005 JB 1H 102K-T	T	64.8/42.7
Eqv.	4030026190	S.CER MG15B104K100CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C150	4510010010	S.ELE 25 CE 220 LX		32.0/14.5	Eqv.	4030026210	S.CER MG15B102K500CT		
C151	4030017460	S.CER C1005 JB 1H 102K-T	B	22.7/46.2	C218	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/42.8
Eqv.	4030023090	S.CER 0402B102K500CT			C219	4030018890	S.CER C1005 JB OJ 224K-T	T	72.5/24.9
Eqv.	4030026210	S.CER MG15B102K500CT			C220	4030017460	S.CER C1005 JB 1H 102K-T	T	66.3/42.8
C152	4030017460	S.CER C1005 JB 1H 102K-T	T	23.2/51.5	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT			C221	4030017460	S.CER C1005 JB 1H 102K-T	B	88.7/19.0
C156	4030017460	S.CER C1005 JB 1H 102K-T	B	13.3/42.7	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT			C222	4030019410	S.CER GRM31A7U2J471JW31D	T	75.4/59.6
C157	4030017460	S.CER C1005 JB 1H 102K-T	B	85.2/25.2	C223	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/44.5
Eqv.	4030023090	S.CER 0402B102K500CT			C224	4030022920	S.CER 0402N820J500CT	B	89.4/22.4
Eqv.	4030026210	S.CER MG15B102K500CT			C225	4510010010	S.ELE 25 CE 220 LX	T	81.0/66.9
C159	4030022860	S.CER 0402N470J500CT	T	33.9/51.0	C226	4030017460	S.CER C1005 JB 1H 102K-T	T	79.0/23.2
C160	4030022640	S.CER 0402N101J500CT	T	27.7/52.0	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026140	S.CER MG15N101J500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
C161	4030017460	S.CER C1005 JB 1H 102K-T	T	25.1/50.3	C227	4030022620	S.CER 0402NOR5B500CT	B	90.6/22.9
Eqv.	4030023090	S.CER 0402B102K500CT			C228	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/46.3
Eqv.	4030026210	S.CER MG15B102K500CT			C229	4030016790	S.CER C1005 JB 1E 103K-T	B	89.8/13.6
C162	4030019990	S.CER C1005 JB 1C 104K-T	B	88.6/14.6	Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030023010	S.CER 0402B104K160CT			Eqv.	4030026200	S.CER MG15B103K250CT		
Eqv.	4030026220	S.CER MG15B104K160CT			C230	4030017460	S.CER C1005 JB 1H 102K-T	T	76.9/22.0
C163	4030017460	S.CER C1005 JB 1H 102K-T	T	33.9/51.9	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT			C232	4030016930	S.CER C1005 JB 1A 104K-T	B	91.8/18.1
C164	4510010230	S.ELE 10 CE 1000 LX	T	12.6/23.5	Eqv.	4030022940	S.CER 0402B104K100CT		
C165	4030019560	S.CER GRM21BB31C106KE15L	B	13.6/44.1	Eqv.	4030026190	S.CER MG15B104K100CT		
C166	4030017460	S.CER C1005 JB 1H 102K-T	B	87.1/10.3	C234	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/48.0
Eqv.	4030023090	S.CER 0402B102K500CT			C236	4030022920	S.CER 0402N820J500CT	B	91.8/22.4
Eqv.	4030026210	S.CER MG15B102K500CT			C237	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/49.8
C167	4030026760	S.CER RF15N8R0C500CT	B	87.4/11.6	C238	4030026700	S.CER RF15N1R0B500CT	B	92.7/22.4
C170	4030019990	S.CER C1005 JB 1C 104K-T	B	7.9/22.2	C239	4030022330	S.CER GQM2195C2E330JB12D	T	74.2/51.5
Eqv.	4030023010	S.CER 0402B104K160CT			C240	4030017460	S.CER C1005 JB 1H 102K-T	T	77.0/29.7
Eqv.	4030026220	S.CER MG15B104K160CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C171	4030017460	S.CER C1005 JB 1H 102K-T	B	46.7/30.9	Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			C242	4030022720	S.CER 0402N1R5B500CT	B	94.0/22.9
Eqv.	4030026210	S.CER MG15B102K500CT			C243	4030017460	S.CER C1005 JB 1H 102K-T	T	68.2/22.1
C172	4030017460	S.CER C1005 JB 1H 102K-T	T	36.9/66.9	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT			C247	4030017460	S.CER C1005 JB 1H 102K-T	B	95.6/18.5
C174	4030016790	S.CER C1005 JB 1E 103K-T	B	86.3/15.4	Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030023030	S.CER 0402B103K250CT			Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030026200	S.CER MG15B103K250CT			C249	4030022920	S.CER 0402N820J500CT	B	95.2/22.4
C175	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/11.0	C250	4030017460	S.CER C1005 JB 1H 102K-T	B	96.1/22.4
Eqv.	4030023030	S.CER 0402B103K250CT			Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026200	S.CER MG15B103K250CT			Eqv.	4030026210	S.CER MG15B102K500CT		
C177	4030017460	S.CER C1005 JB 1H 102K-T	B	14.6/48.5	C251	4030016790	S.CER C1005 JB 1E 103K-T	B	100.4/20.5
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030026200	S.CER MG15B103K250CT		
C178	4030017460	S.CER C1005 JB 1H 102K-T	T	13.1/51.5	C254	4030020770	S.CER GRM31A5C2J330JW01D	T	80.2/47.6
Eqv.	4030023090	S.CER 0402B102K500CT			C255	4030017460	S.CER C1005 JB 1H 102K-T	T	81.6/31.8
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C179	4030017460	S.CER C1005 JB 1H 102K-T	T	37.9/62.1	Eqv.	4030026210	S.CER MG15B102K500CT		
Eqv.	4030023090	S.CER 0402B102K500CT			C256	4030017460	S.CER C1005 JB 1H 102K-T	B	102.2/20.5
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
C182	4030023200	S.CER 0402B471K500CT	T	17.3/52.2	Eqv.	4030026210	S.CER MG15B102K500CT		
C184	4030017460	S.CER C1005 JB 1H 102K-T	T	17.3/53.1	C257	4030017460	S.CER C1005 JB 1H 102K-T	T	81.3/30.6
Eqv.	4030023090	S.CER 0402B102K500CT			Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT			Eqv.	4030026210	S.CER MG15B102K500CT		
C187	4030017580	S.CER C1005 CH 1H 060C-T	B	84.3/15.3	C258	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/22.0
C189	4030023760	S.CER 0603N680J500CT	B	40.5/52.1	Eqv.	4030023090	S.CER 0402B102K500CT		
C190	4030023760	S.CER 0603N680J500CT	B	40.5/57.2	Eqv.	40300262			

The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[MAIN-A UNIT] (For [#36], [#40], [#43], [#47], and [#50])**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION	REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C265	4030024610	S.CER GRM31A5C2J5R0CW01D	T	95.7/47.7	J1	6510028390	S.CON 04-6294-036-000-800	T	60.0/6.8
C266	4030024610	S.CER GRM31A5C2J5R0CW01D	T	95.7/45.6	J2	6510014961	S.CON B2B-ZR-SM4-TF(LF)(SN)	T	8.9/56.5
C267	4030017460	S.CER C1005 JB 1H 102K-T	T	80.1/30.2	J3	6510025940	CON PJ-3047S		
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C269	4030019990	S.CER C1005 JB 1C 104K-T	T	82.3/26.0	W1	8900011882	CAB OPC-1210A-1(P0.5N36L70)		
Eqv.	4030023010	S.CER 0402B104K160CT			W2	7030014230	JUM RJ20SOOHH		
Eqv.	4030026220	S.CER MG15B104K160CT			W6	8900022720	CAB OPC-2432		
C270	4030026580	S.CER RF15N150J500CT							
C271	4030017460	S.CER C1005 JB 1H 102K-T	T	78.9/30.6					
Eqv.	4030023090	S.CER 0402B102K500CT			EP3	6910018460	S.BEA MMZ1005Y102C-T	T	24.8/51.5
Eqv.	4030026210	S.CER MG15B102K500CT			EP4	6910014730	S.BEA MPZ2012S331A-T	T	34.7/64.6
C272	4030024600	S.CER GRM31A5C2J4R0CW01D	T	92.1/43.5	EP5	6910020610	S.BEA BLM15BD102SN1D	B	45.7/26.3
C274	4030024600	S.CER GRM31A5C2J4R0CW01D	T	92.1/41.4					
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	86.4/27.9					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C276	4030017460	S.CER C1005 JB 1H 102K-T	B	112.0/19.5					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C277	4030017460	S.CER C1005 JB 1H 102K-T	T	84.7/26.2					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C278	4030024600	S.CER GRM31A5C2J4R0CW01D	T	92.1/39.3					
C279	4030022920	S.CER 0402N820J500CT	B	110.8/21.5					
C280	4030017460	S.CER C1005 JB 1H 102K-T	T	89.0/37.7					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C281	4030018940	S.CER GRM31A7U2J331JW31D	T	98.1/35.9					
C282	4030018940	S.CER GRM31A7U2J331JW31D	T	96.0/35.9					
C283	4030018940	S.CER GRM31A7U2J331JW31D	T	93.7/35.9					
C284	4030017460	S.CER C1005 JB 1H 102K-T	T	68.7/24.3					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C285	4030019990	S.CER C1005 JB 1C 104K-T	T	86.4/28.8					
Eqv.	4030023010	S.CER 0402B104K160CT							
Eqv.	4030026220	S.CER MG15B104K160CT							
C287	4030017380	S.CER C1005 CH 1H 050B-T	B	110.8/23.1					
C288	4030019420	S.CER GRM31A7U2J102JW31D	T	104.3/32.0					
C291	4030020740	S.CER GRM31A5C2J180JW01D	B	104.3/34.6					
C292	4030017460	S.CER C1005 JB 1H 102K-T	B	111.2/26.3					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C293	4030022720	S.CER 0402N1R5B500CT	T	110.2/23.1					
C295	4030024580	S.CER GRM31A5C2J1R0CW01D	B	109.1/41.9					
C296	4030023480	S.CER 0603N120J500CT	B	104.7/41.5					
C297	4030021200	S.CER GRM31A5C2J120JW01D	B	104.3/37.2					
C298	4030020760	S.CER GRM31A5C2J270JW01D	B	104.3/39.8					
C299	4030017460	S.CER C1005 JB 1H 102K-T	B	101.9/42.4					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C300	4030020760	S.CER GRM31A5C2J270JW01D	B	100.3/51.6					
C301	4030021200	S.CER GRM31A5C2J120JW01D	B	100.3/53.7					
C302	4030026590	S.CER RF15N180J500CT	T	108.8/26.9					
C303	4030024580	S.CER GRM31A5C2J1R0CW01D	B	103.4/47.8					
C304	4030023480	S.CER 0603N120J500CT	B	99.4/49.4					
C305	4030024590	S.CER GRM31A5C2J3R0CW01D	T	98.7/29.9					
C306	4030020770	S.CER GRM31A5C2J330JW01D	B	100.3/56.9					
C307	4030021210	S.CER GRM31A5C2J150JW01D	B	104.2/63.1					
C308	4030023140	S.CER 0402B271K500CT	B	98.6/4.1					
C309	4030017460	S.CER C1005 JB 1H 102K-T	T	97.9/1.2					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C310	4030019990	S.CER C1005 JB 1C 104K-T	T	108.0/8.8					
Eqv.	4030023010	S.CER 0402B104K160CT							
Eqv.	4030026220	S.CER MG15B104K160CT							
C311	4030019990	S.CER C1005 JB 1C 104K-T	T	99.7/5.6					
Eqv.	4030023010	S.CER 0402B104K160CT							
Eqv.	4030026220	S.CER MG15B104K160CT							
C312	4030019990	S.CER C1005 JB 1C 104K-T	T	100.0/11.8					
Eqv.	4030023010	S.CER 0402B104K160CT							
Eqv.	4030026220	S.CER MG15B104K160CT							
C313	4030019990	S.CER C1005 JB 1C 104K-T	T	111.5/10.0					
Eqv.	4030023010	S.CER 0402B104K160CT							
Eqv.	4030026220	S.CER MG15B104K160CT							
C314	4030023490	S.CER 0603N121J500CT	B	48.9/48.9					
C315	4030023490	S.CER 0603N121J500CT	B	48.9/60.5					
C319	4510010010	S.ELE 25 CE 220 LX	T	22.4/16.6					
C321	4030020000	S.CER C1005 JB 1A 105K-T	T	23.2/52.4					
C322	4030019990	S.CER C1005 JB 1C 104K-T	B	14.6/16.5					
Eqv.	4030023010	S.CER 0402B104K160CT							
Eqv.	4030026220	S.CER MG15B104K160CT							
C323	4030020780	S.CER GRM31A5C2J470JW01D	T	86.3/45.6					
C327	4030017460	S.CER C1005 JB 1H 102K-T	B	39.5/25.6					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C328	4030017460	S.CER C1005 JB 1H 102K-T	B	41.8/24.1					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C332	4550007090	S.TAN TEESVA 1A 226M8R	T	68.5/10.7					
Eqv.	4550008160	S.TAN F931A226MAA							
Eqv.	4550009110	S.TAN 267E1002226MR533							
C333	4030023070	S.CER 0402B223K250CT	B	25.6/3.6					
C334	4030019460	S.CER C1608 JB 0J 106M-T	T	71.7/16.4					
C335	4030017460	S.CER C1005 JB 1H 102K-T	B	51.3/18.3					
Eqv.	4030023090	S.CER 0402B102K500CT							
Eqv.	4030026210	S.CER MG15B102K500CT							
C337	4030020000	S.CER C1005 JB 1A 105K-T	B	69.8/14.3					
C338	4030020000	S.CER C1005 JB 1A 105K-T	B	69.8/12.5					

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= Shows mounting location on the PCB.

# SECTION 7 MECHANICAL PARTS

The underlined parts have been updated from the addendum of the previous version, or from the original page.

### [CHASSIS UNIT]

REF NO.	PART NO.	DESCRIPTION	QTY.
W3	8900011801	OPC-1199A	1
J1	6510004882	MR-DSE-01-2	1
SP1	2510001161	057P0802-1	1
MP1	8010022234	3251 CHASSIS-4	1
MP2	8110010134	3251 COVER ASSEMBLY-4	1
MP3	8930083860	3251 SP RUBBER	1
MP4	8930062130	THERMAL SHEET (AP)TC200HS-1.4 (15 × 23)	1
MP6	8810008661	PH BT M3 × 8 NI-ZC3	11
MP7	8810009611	FLAT M2.6 × 6 ZK3	8
MP8	8810005161	CAPBOLT M3 × 20 ZK3 BLACK	2
MP9	8810009050	SET SCREW H M3 × 10 NI	4
MP11	83100069140	2979 CAUTION LABEL	1
	83100069140	2979 CAUTION LABEL	Only [#17] 1
			Only [#47] 1
MP13	8310083951	3254 H-LABEL-1	1
MP14	8930095680	HIMELON SHEET (DV)	1
MP15	8930105180	3251 JACK SHEET	1
MP16	8930105360	SPONGE (RN)	1
MP17	8930105170	3251 THERMAL SHEET TC-45TAG (9.5 × 13)	1

### [LOGIC UNIT]

REF NO.	PART NO.	DESCRIPTION	QTY.
J1	6450002210	3017-8821	1
J3*	6510028390	04-6294-036-000-800+	1
DS1	5030004190	L5-1064TRR	1
S1*	2260002740	LS8J2M-T	1
S2*	2260002740	LS8J2M-T	1
S3*	2260002740	LS8J2M-T	1
S4*	2260002740	LS8J2M-T	1
S5*	2260002740	LS8J2M-T	1
S6*	2260002740	LS8J2M-T	1
S7*	2260002740	LS8J2M-T	1
S8*	2260002740	LS8J2M-T	1
S9	2250000790	EC12E24204A9	1
S10*	2260002740	LS8J2M-T	1
EP9	8930084270	SRCN-3251-SP-N-W SHJ	1
MP1	8210027220	3251 FRONT PANEL	1
MP2	8210027230	3251 REFLECTOR	1
MP3	8930083840	3251 2-KEY	1
MP4	8930083850	3251 7-KEY	1
MP5	8930084141	3251 LCD FILTER-1	1
MP6	8810008761	PH BT M2 × 8 NI-ZC3	4
MP7	8930083870	3251 LCD PLATE	1
MP8	8610014400	KNOB N-400	1
MP9	8610014410	KNOB N-401	2
MP11	8930057890	NONWOVEN SHEET CF	1

### [MAIN UNIT] (For [#05], [#06], [#10], [#13], [#17], and [#20])

REF NO.	PART NO.	DESCRIPTION	QTY.
J1*	6510028390	04-6294-036-000-800+	1
J2*	6510014961	B2B-ZR-SM4-TF (LF) (SN)	1
J3	6510025940	PJ-3047S	1
W1	8900011882	OPC-1210A-1 (P0.5N36L70)	1
W2	7030014230	RJ20S0OHM	1
W6	8900022720	OPC-2432	1
MP2	8510019351	3179 VCO COVER-1	1
MP3*	8410002720	3251 PA HEATSINK	1
MP5*	8510019341	3179 VCO CASE-1	1

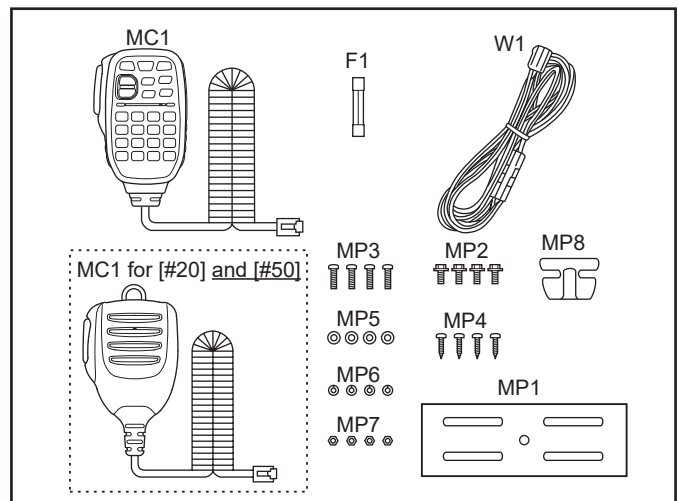
### [MAIN-A UNIT] (For [#36], [#40], [#43], [#47], and [#50])

REF NO.	PART NO.	DESCRIPTION	QTY.
J1*	6510028390	04-6294-036-000-800+	1
J2*	6510014961	B2B-ZR-SM4-TF (LF) (SN)	1
J3	6510025940	PJ-3047S	1
W1	8900011882	OPC-1210A-1 (P0.5N36L70)	1
W2	7030014230	RJ20S0OHM	1
W6	8900022720	OPC-2432	1
MP2	8510019351	3179 VCO COVER-1	1
MP3*	8410002720	3251 PA HEATSINK	1
MP5*	8510019341	3179 VCO CASE-1	1

### [SUPPLIED ACCESSORIES]

REF NO.	PART NO.	DESCRIPTION	QTY.
F1	5210001560	FGBO 125V 20A PBF	[#05] 1
	5210001560	FGBO 125V 20A PBF	[#06] 1
	5210001560	FGBO 125V 20A PBF	[#10] 1
	5210001560	FGBO 125V 20A PBF	[#13] 1
	5210001560	FGBO 125V 20A PBF	[#17] 1
	5210000080	FGB 20A (FGBO 125V)	[#20] 1
	5210001560	FGBO 125V 20A PBF	[#36] 1
	5210001560	FGBO 125V 20A PBF	[#40] 1
	5210001560	FGBO 125V 20A PBF	[#43] 1
	5210001560	FGBO 125V 20A PBF	[#47] 1
	5210001560	FGBO 125V 20A PBF	[#50] 1
MC1	-	HM-133V†	[#05] 1
	-	HM-133V†	[#06] 1
	-	HM-133V†	[#10] 1
	-	HM-133V†	[#13] 1
	-	HM-133V†	[#17] 1
	-	HM-154†	[#20] 1
	-	HM-133V†	[#36] 1
	-	HM-133V†	[#40] 1
	-	HM-133V†	[#43] 1
	-	HM-133V†	[#47] 1
	-	HM-154†	[#50] 1
W1	-	OPC-1132A†	1
MP1	8010019262	2633 MOBILE BRACKET-2	1
MP2	8820000530	FLANGE BOLT M4 × 8 NI	4
MP3	8810000471	PH M5 × 12 (+-) ZC3	4
MP4	8810000951	PHA M5 × 16 ZC3	4
MP5	8850000150	FLAT WASHER M5 NI BS	4
MP6	8850000391	S-WASHER M5 ZC3	4
MP7	8830000121	NUT M5 ZC3	4
MP8	8930007301	MIC HANGER-1	Only [#05] 1

†Sold as an option

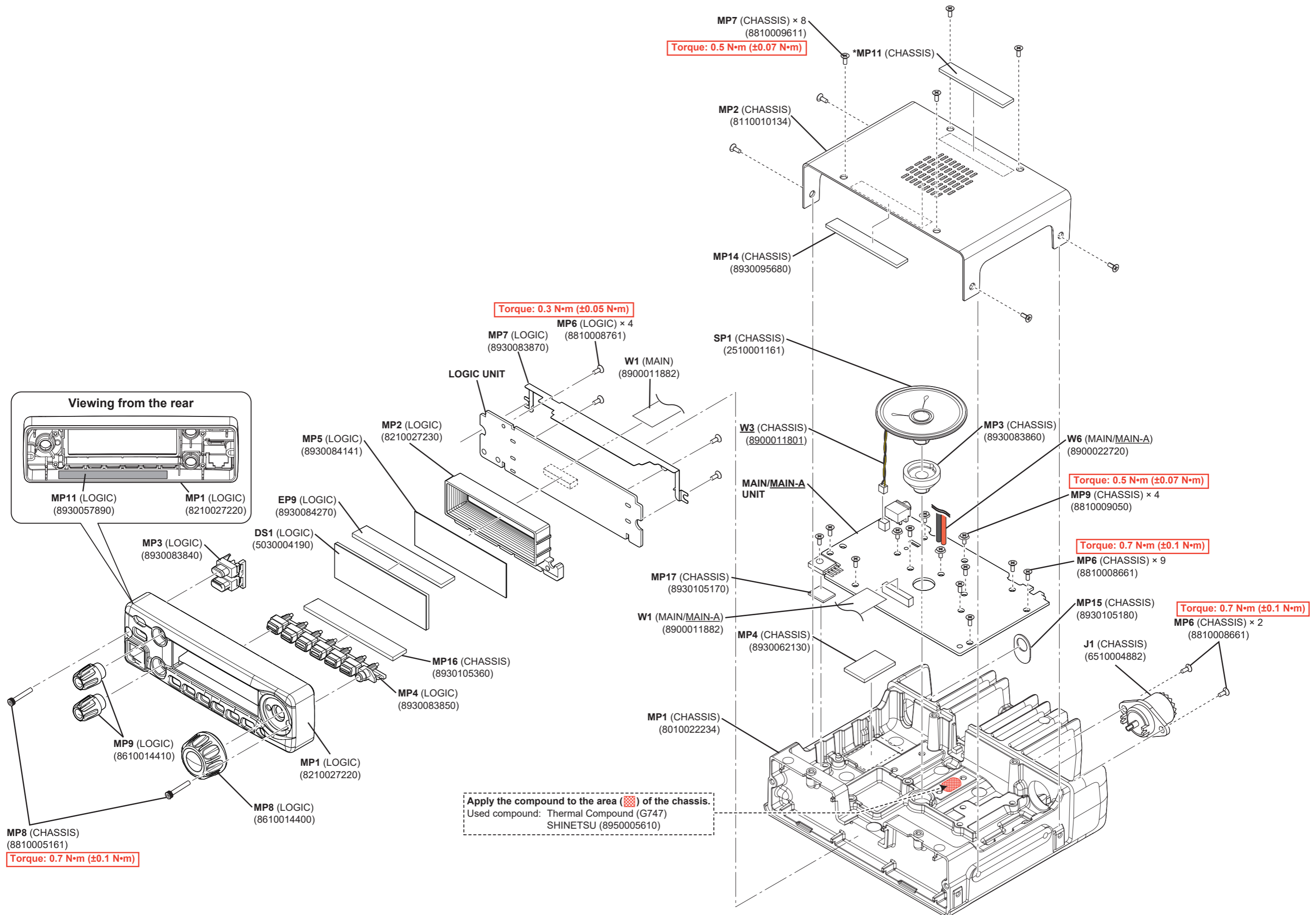


\*: Refer to "BOARD LAYOUTS" for the location.

\*\* : Refer to "GENERAL WIRING" for the connection

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

The underlined parts have been updated from the addendum of the previous version, or from the original page.



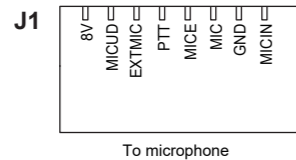
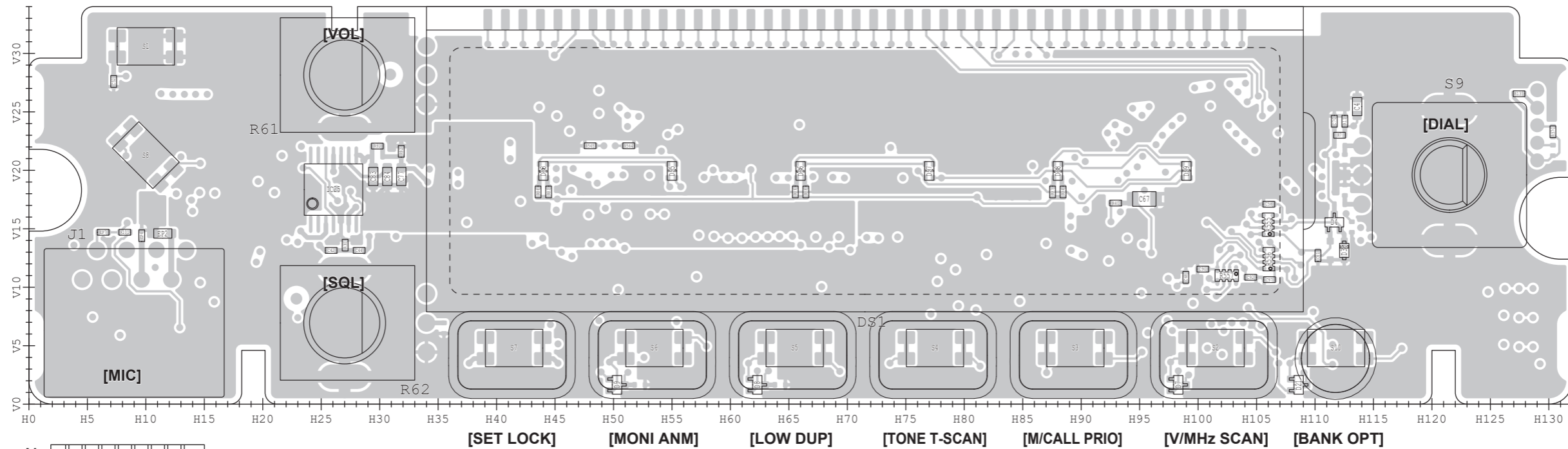
\*Refer to the Mechanical Parts list.

# SECTION 8 BOARD LAYOUT

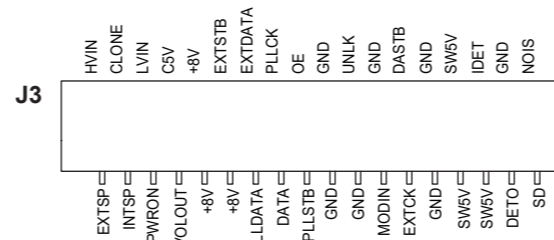
The underlined parts have been updated from the addendum of the previous version, or from the original page.

• LOGIC UNIT (B-9464A/B-9500)  
TOP VIEW

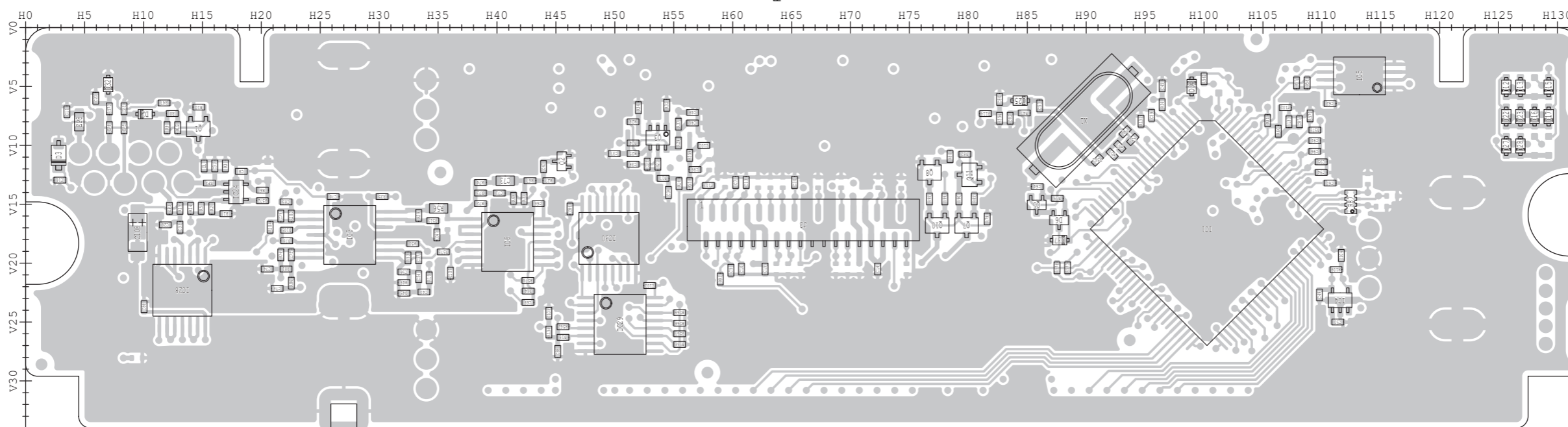
**NOTE:** Both the B-9464A and the B-9500 PCBs have the same circuits and layout.  
The only difference is their PCB number.



To MAIN UNIT, J1 (For [#05], [#06], [#10], [#13], [#17], and [#20])  
To MAIN-A UNIT, J1 (For [#36], [#40], [#43], [#47], and [#50])



**BOTTOM VIEW**

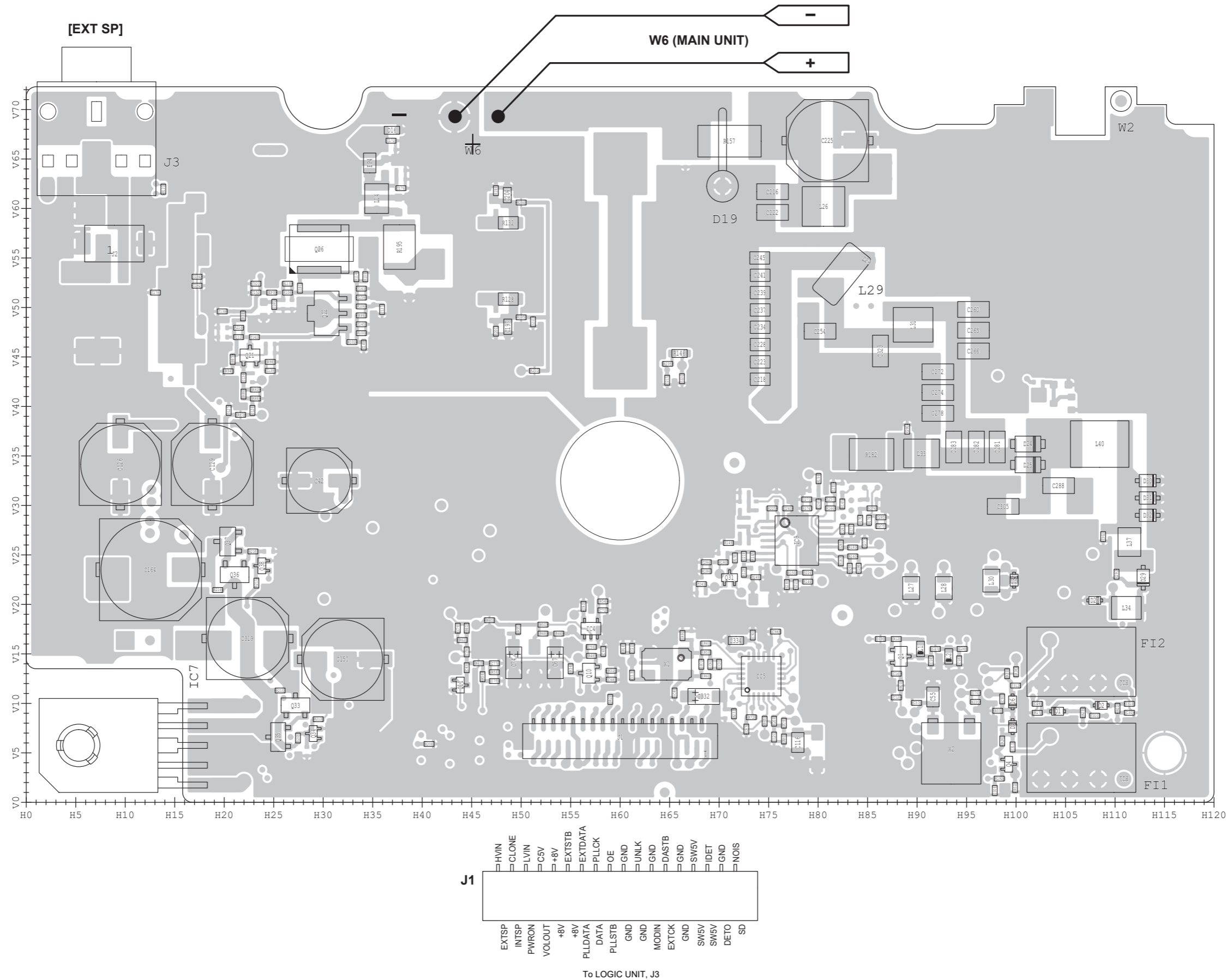


**NOTE:** Some parts may not be mounted on the PCB, depending on the transceiver version.  
Refer to the PARTS LIST for the mounted parts.  
The scale along the PCB indicates the corresponding "H/V LOCATION" on the parts list.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• MAIN UNIT (B-7530G/B-9493: for [#05], [#06], [#10], [#13], [#17], and [#20]) (TOP VIEW)

NOTE: Both the B-7530G and the B-9493 PCBs have the same circuits and layout. The only difference is their PCB number.

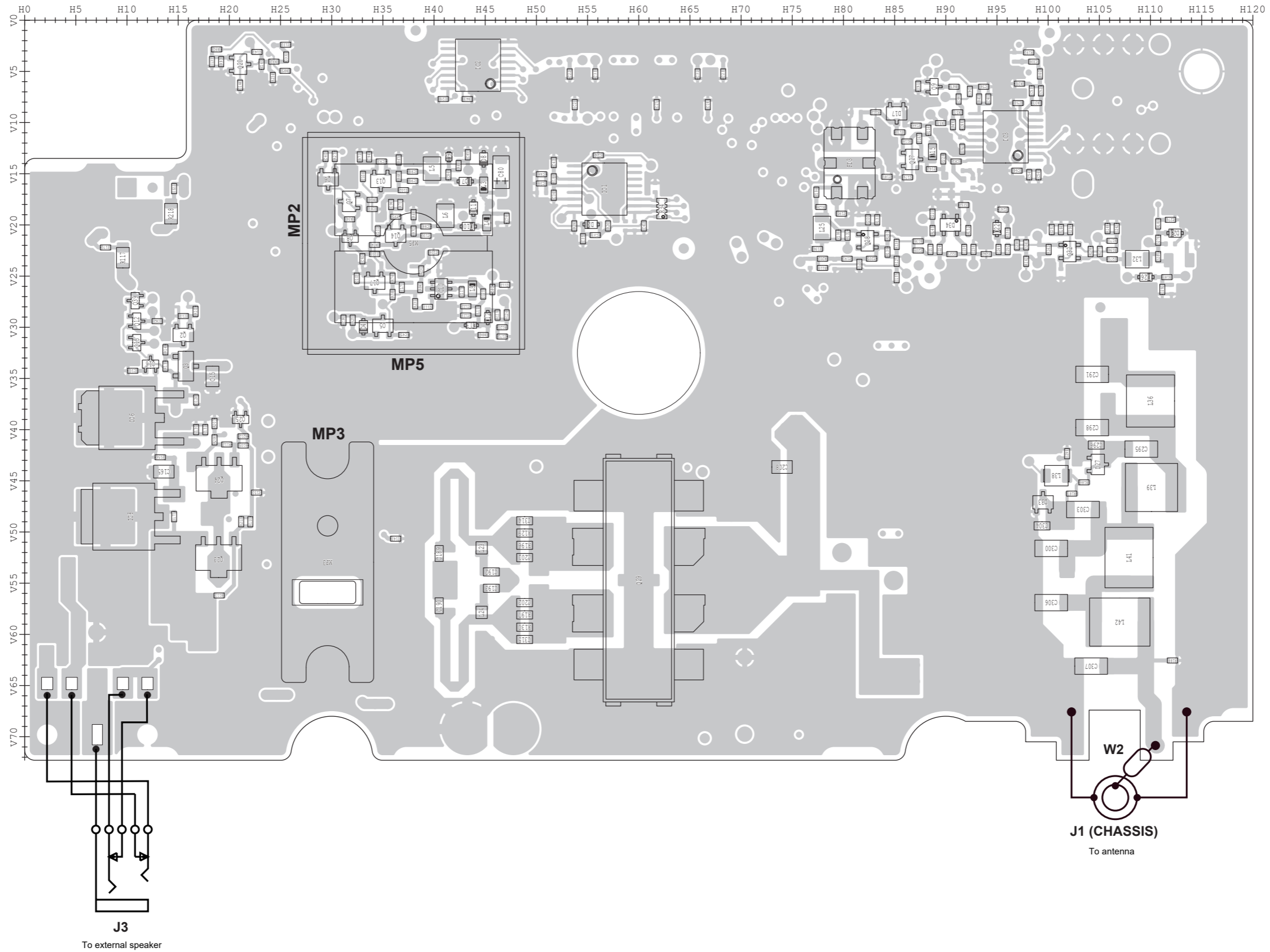


NOTE: Some parts may not be mounted on the PCB, depending on the transceiver version. Refer to the PARTS LIST for the mounted parts. The scale along the PCB indicates the corresponding "H/V LOCATION" on the parts list.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• MAIN UNIT (B-7530G/B-9493: for #[05], #[06], #[10], #[13], #[17], and #[20])  
(BOTTOM VIEW)

**NOTE:** Both the B-7530G and the B-9493 PCBs have the same circuits and layout.  
The only difference is their PCB number.

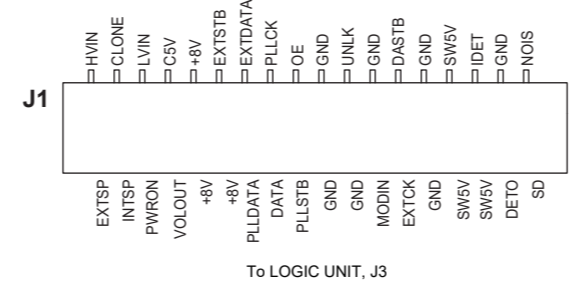
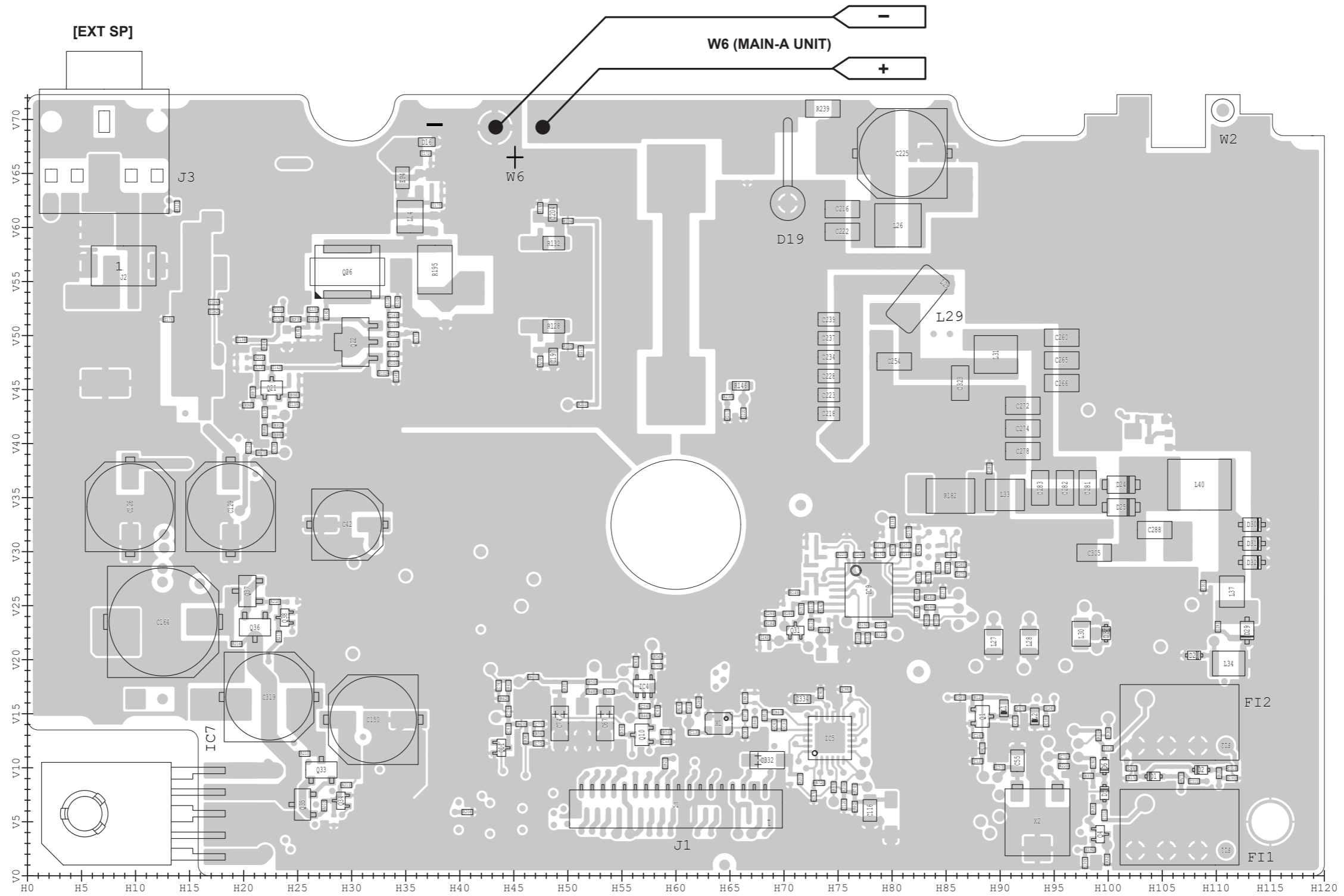


**NOTE:** Some parts may not be mounted on the PCB, depending on the transceiver version.  
Refer to the PARTS LIST for the mounted parts.  
The scale along the PCB indicates the corresponding "H/V LOCATION" on the parts list.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• **MAIN-A UNIT (B-9588A/B-9610: for [#36], [#40], [#43], [#47], and [#50]) (TOP VIEW)**

**NOTE:** Both the B-9588A and the B-9610 PCBs have the same circuits and layout. The only difference is their PCB number.

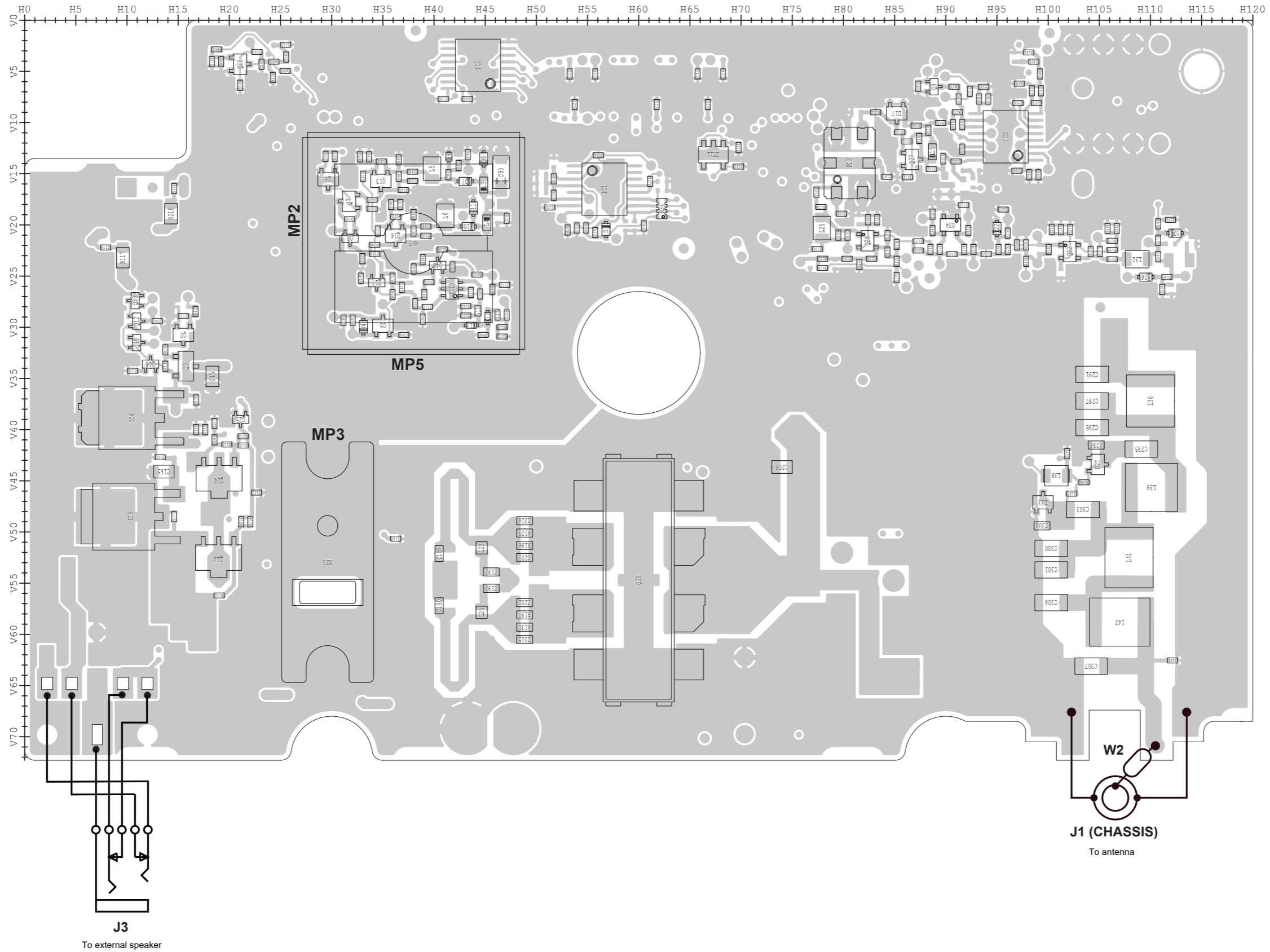


**NOTE:** Some parts may not be mounted on the PCB, depending on the transceiver version. Refer to the PARTS LIST for the mounted parts. The scale along the PCB indicates the corresponding "H/V LOCATION" on the parts list.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• **MAIN-A UNIT (B-9588A/B-9610: for [#36], [#40], [#43], [#47], and [#50]) (BOTTOM VIEW)**

**NOTE:** Both the B-9588A and the B-9610 PCBs have the same circuits and layout. The only difference is their PCB number.



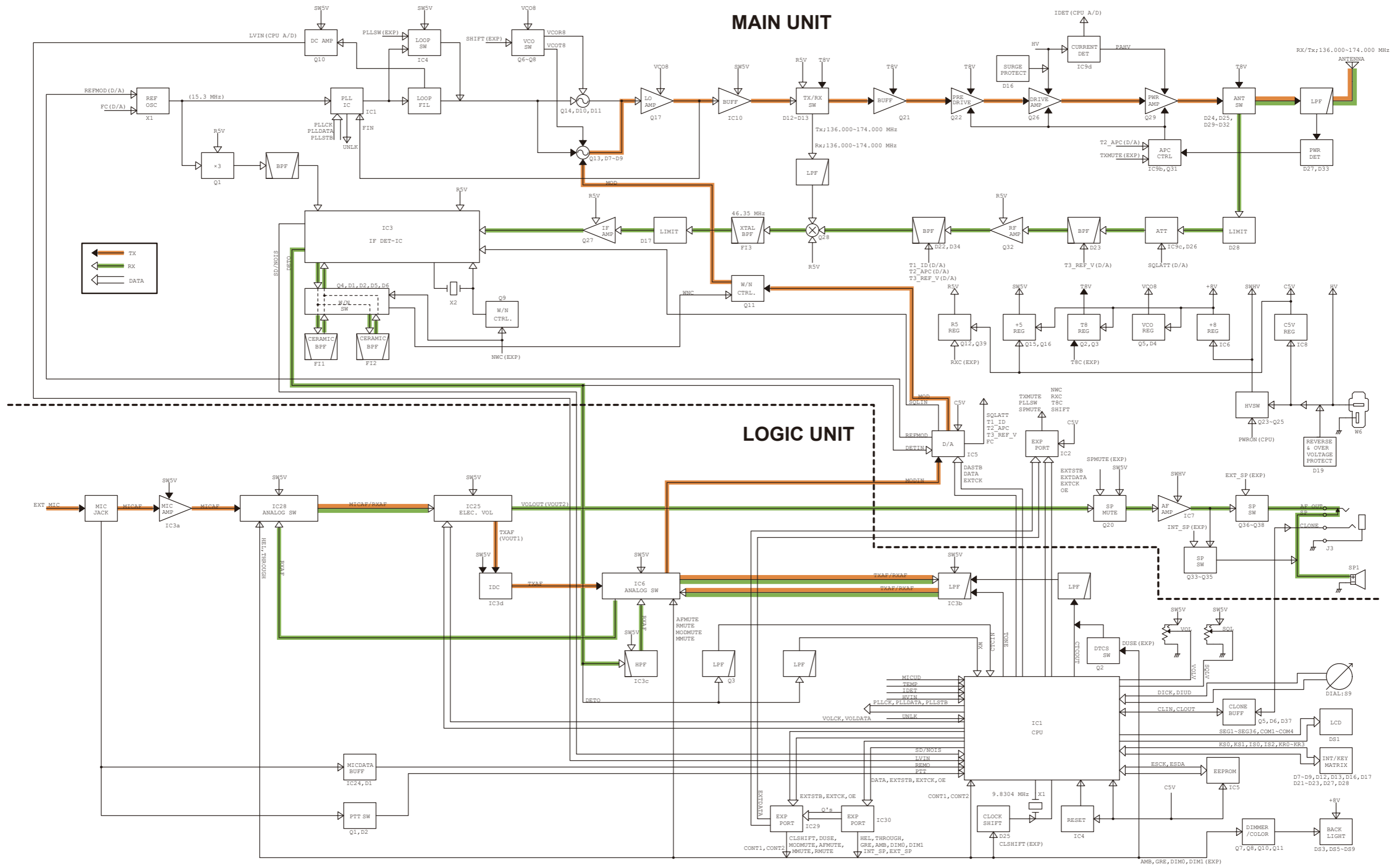
**NOTE:** Some parts may not be mounted on the PCB, depending on the transceiver version. Refer to the PARTS LIST for the mounted parts. The scale along the PCB indicates the corresponding "H/V LOCATION" on the parts list.

# SECTION 9

# BLOCK DIAGRAM

The underlined parts have been updated from the addendum of the previous version, or from the original page.

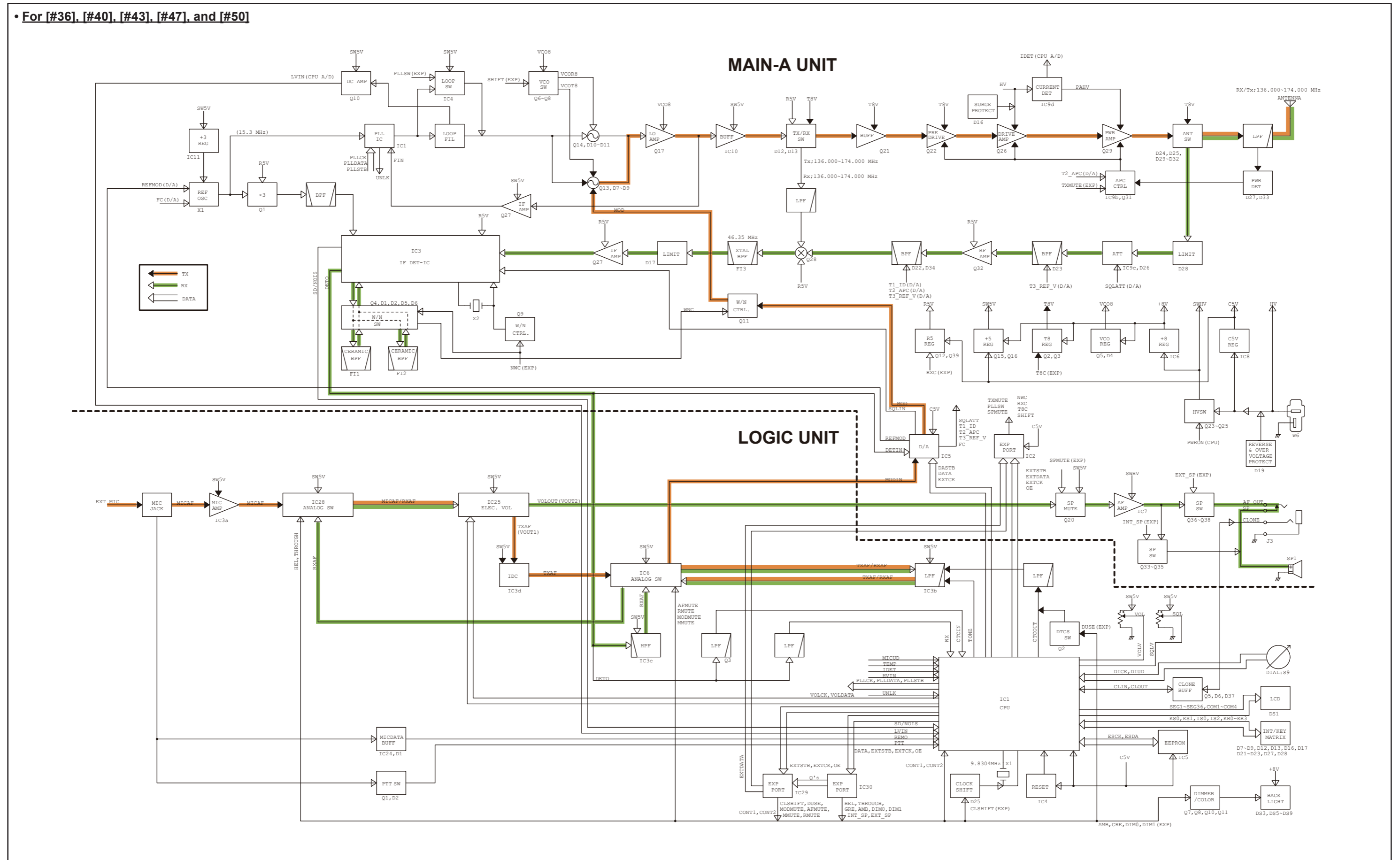
• For [#05], [#06], [#10], [#13], [#17], and [#20]



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

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• For [#36], [#40], [#43], [#47], and [#50]

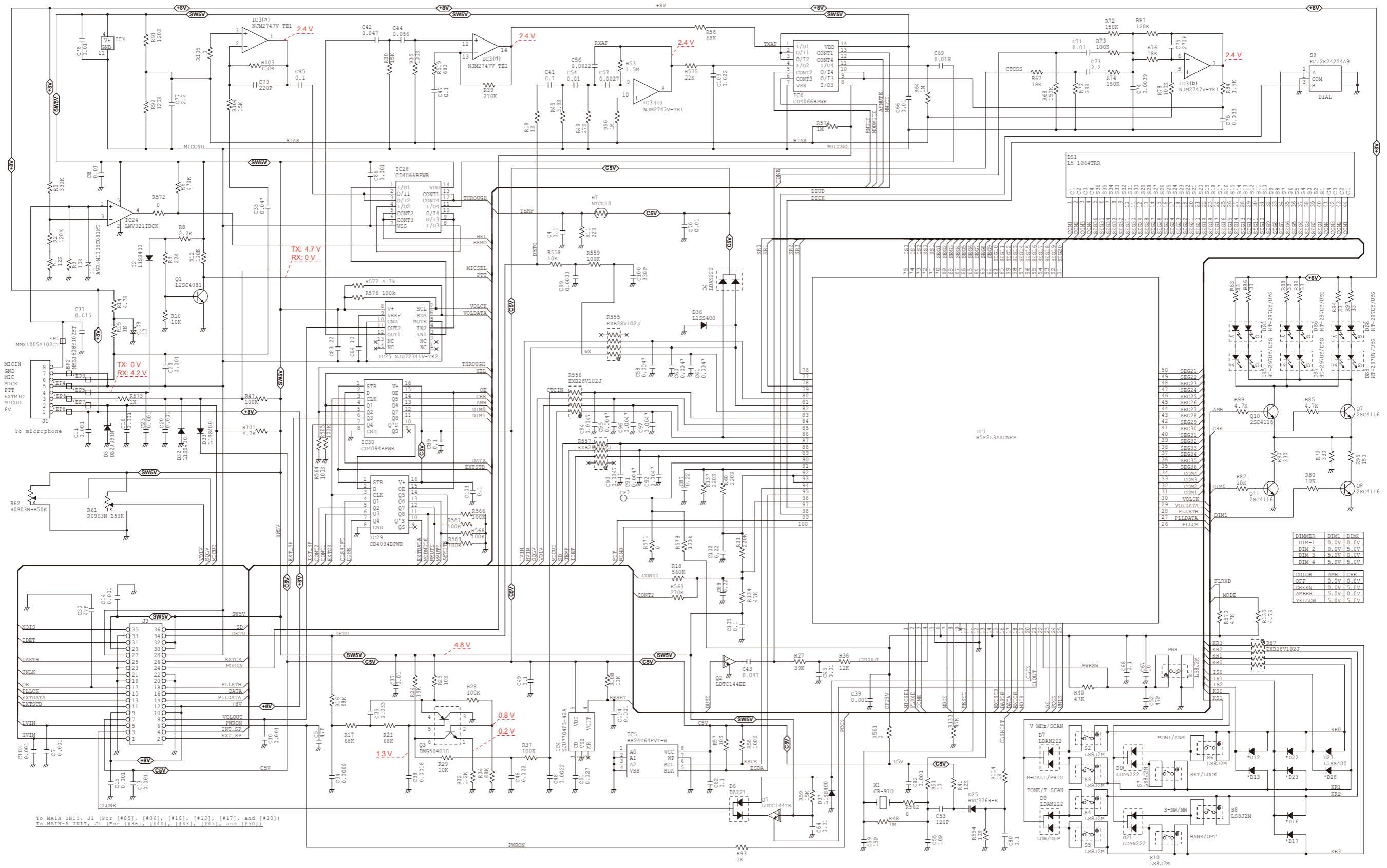


\*Refer to the PARTS LIST for the value and name of component.

# SECTION 10 VOLTAGE DIAGRAM

The underlined parts have been updated from the addendum of the previous version, or from the original page.

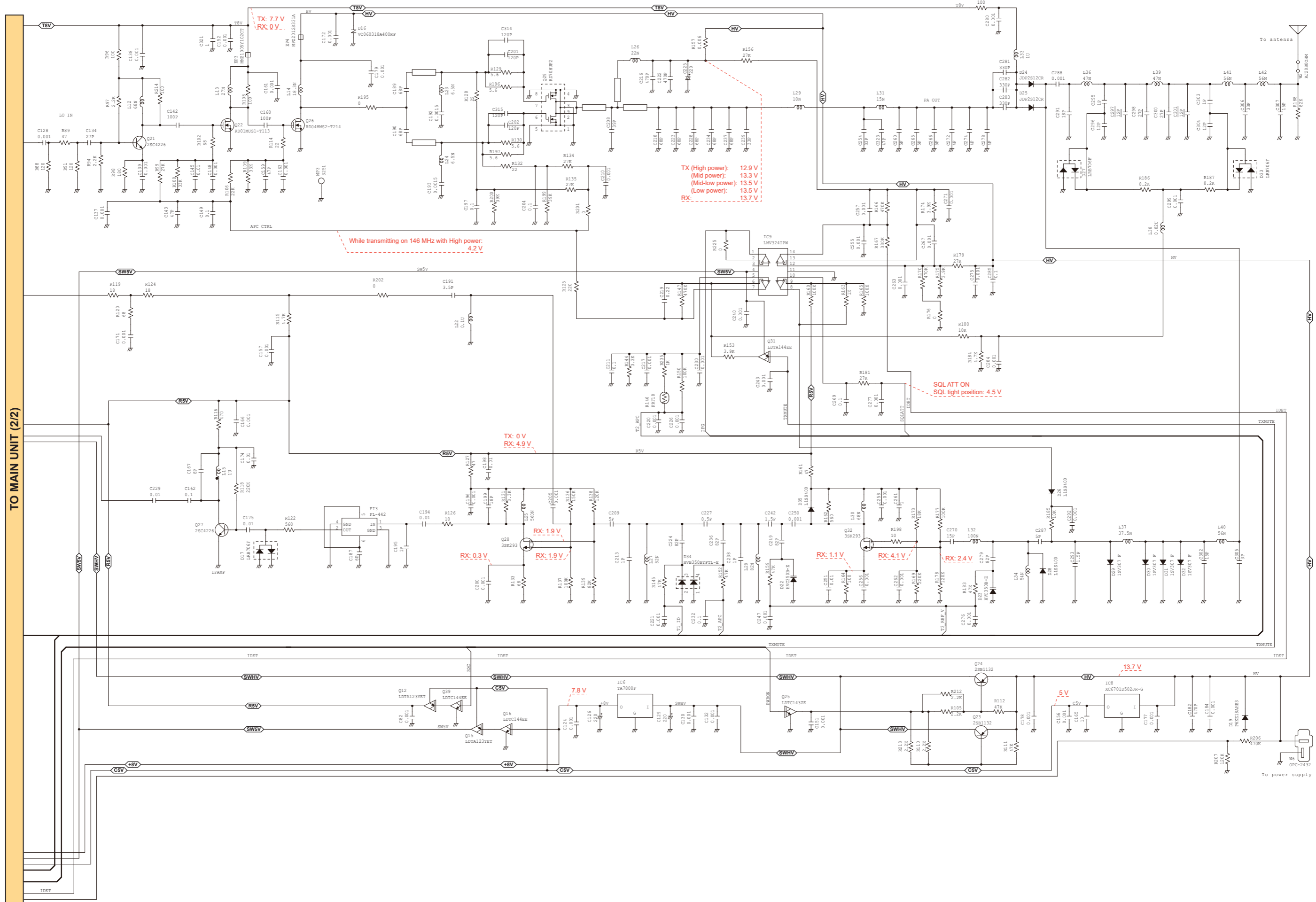
## • LOGIC UNIT



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

The underlined parts have been updated from the addendum of the previous version, or from the original page.

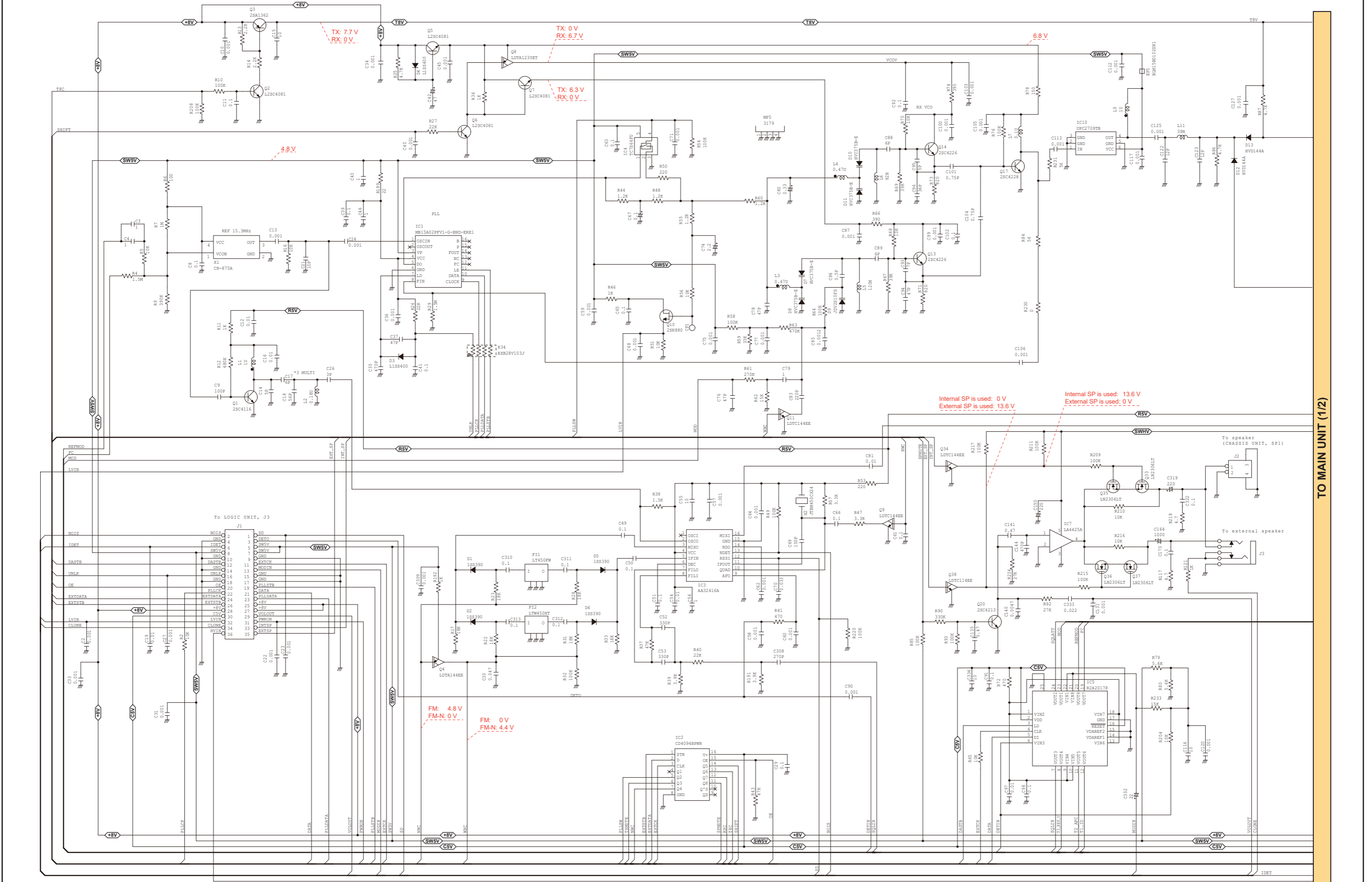
• MAIN UNIT (1/2) (For [#05], [#06], [#10], [#13], [#17], and [#20])



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

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• MAIN UNIT (2/2) (For [#05], [#06], [#10], [#13], [#17], and [#20])

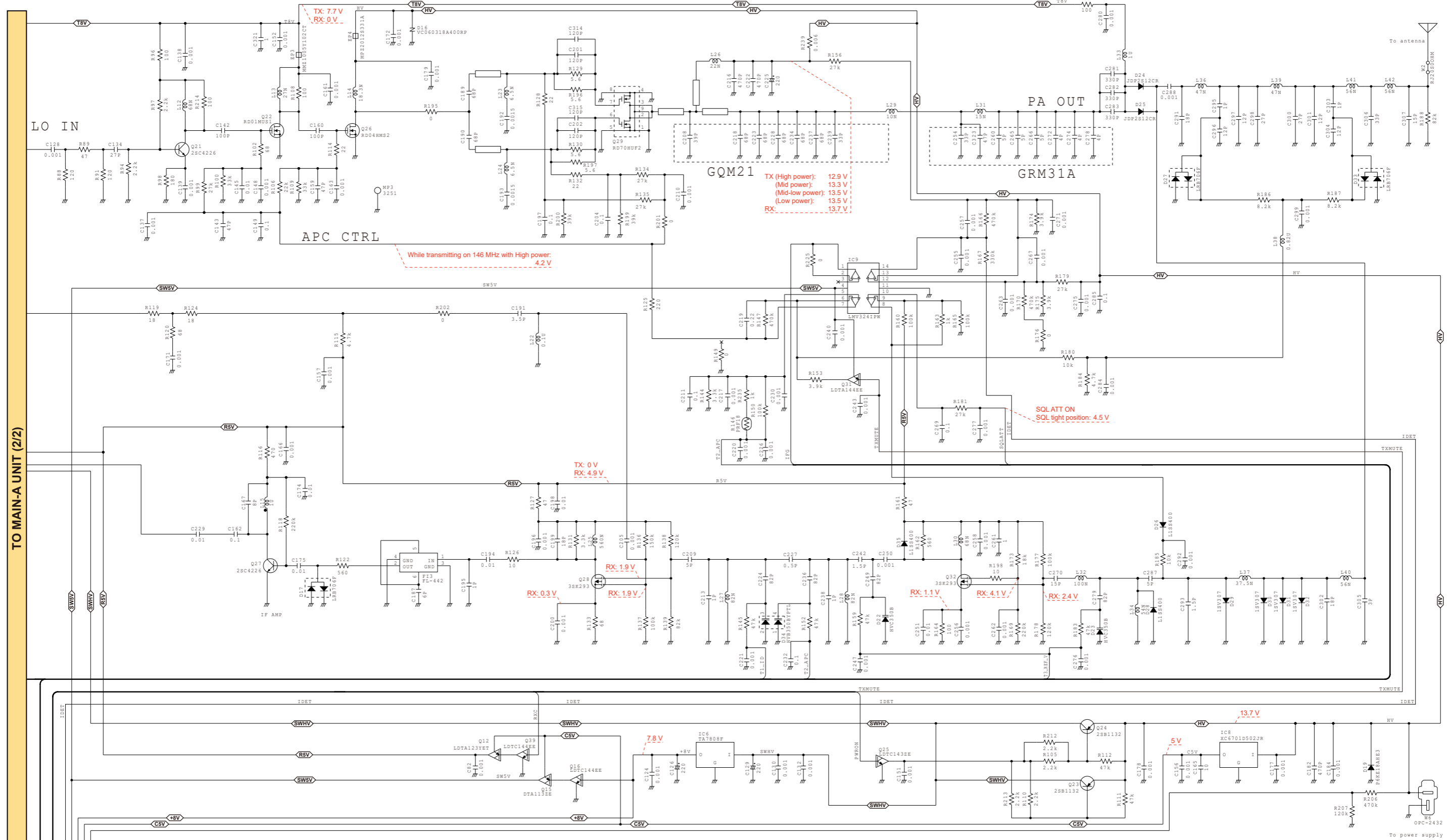


TO MAIN UNIT (1/2)

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

The underlined parts have been updated from the addendum of the previous version, or from the original page.

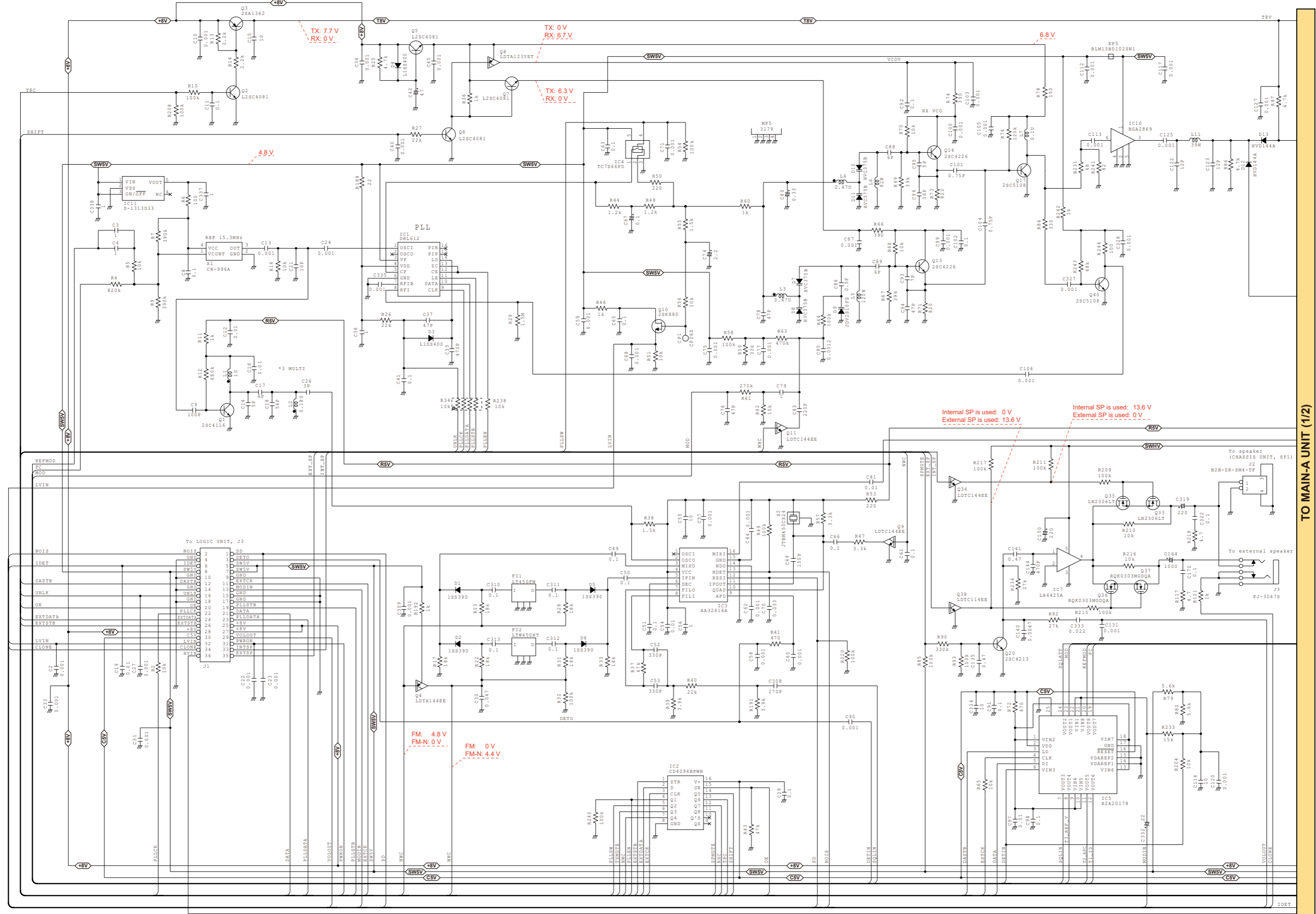
• MAIN-A UNIT (1/2) (For [#36], [#40], [#43], [#47], and [#50])



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

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• MAIN-A UNIT (2/2) (For [#36], [#40], [#43], [#47], and [#50])



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

## IC-2300H

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

Definitions	
<b>Replacement page</b>	The page to replace the original one.
<b>Addendum page</b>	The page to be added to the original set.
<b>Amended page</b>	The page to be added as change history, including corrections.

### Page number information

The number of revisions can be easily understood by the addendum service manual's page number.  
The number of revisions (a, b, c, ...) is added after the page number.

## CONTENTS

SECTION 1	SPECIFICATIONS .....	1-1f
SECTION 5	ADJUSTMENT PROCEDURE .....	5-1f~5-7f
SECTION 6	PARTS LIST .....	6-1f~6-7f
SECTION 7	MECHANICAL PARTS .....	7-1f~7-2f
SECTION 8	BOARD LAYOUT .....	8-1f~8-3f
SECTION 10	VOLTAGE DIAGRAM .....	10-1f~10-3f

### [Version List]

MODEL	Version Number†	Version	TX Power	Supplied microphone	Installed unit		Remarks
					LOGIC	MAIN	
IC-2300H	#05	USA	65W	HM-133V	✓	✓	-
IC-2300H	#06	KOR	50W	HM-133V	✓	✓	-
IC-2300H	#10	EXP-01	65W	HM-133V	✓	✓	-
IC-2300H	#13	EXP-05	65W	HM-133V	✓	✓	-
IC-2300H-T*	#17	THA-03	60W	HM-133V	✓	✓	-
IC-2300H	#20	EXP-03	65W	HM-154	✓	✓	-

This addendum service manual provides service information for the versions listed above, excluding out of production versions.

\* Newly added versions

† The first two digits of serial number shows its Version Number.

✓: Applicable

# SECTION 1 SPECIFICATIONS

The underlined parts have been updated from the addendum of the previous version, or from the original page.




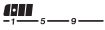
## ■ GENERAL

- Frequency coverage (unit: MHz)
  - [USA] Tx: 144~148, Rx: 136~174\*
  - [EXP] Tx: 136~174,\* Rx: 136~174\*
  - [KOR] Tx/Rx: 144~146
  - [THA] Tx/Rx: 144~147

\*Guaranteed: 144~148 MHz range only.
- Type of emission: FM
- Number of memory channels: 207 (including 6 scan edges and 1 Call)
- Scan types: Full, Program, Priority, Memory channel, Bank, Skip, Tone scans
- Frequency resolution: 5, 6.25, 10, 12.5, 15, 20, 25, 30, 50 kHz
- Operating temperature range: -10°C to +60°C; +14°F to +140°F
- Frequency stability: ±3 ppm (-10°C to +60°C)
- Power supply requirement: 13.8 V DC ±15%
- Current drain (at 13.8 V DC: approximate):
  - Transmit at 65 W 11 A
  - Receive standby 0.4 A
  - maximum audio 1.5 A
- Antenna connector: SO-239 (50 Ω)
- Dimensions (projections not included):
  - 140.0(W)×40.0(H)×118.0(D) mm,
  - 5.5(W)×1.6(H)×4.6(D) inches
- Weight (approximate): 1.1 kg, 2.4 lb

## ■ TRANSMITTER

- Modulation system: Variable reactance frequency modulation
- Output power (approximate):

	[USA], [EXP]	[KOR]	[THA]
High: 	65 W	50 W	<u>60 W</u>
Mid: 	25 W	25 W	<u>25 W</u>
Mid-Low: 	10 W	10 W	<u>10 W</u>
Low: 	5 W	5 W	<u>5 W</u>

- Maximum frequency deviation: ±5.0 kHz (Wide)/±2.5 kHz (Narrow)
- Spurious emissions: At least 60 dBc
- Microphone connector: 8-pin modular (600 Ω)

## ■ RECEIVER

- Receive system: Double-conversion superheterodyne
- Intermediate frequencies:
  - 1st: 46.35 MHz, 2nd: 450 kHz
- Sensitivity (at 12 dB SINAD): 0.18 μV or less
- Squelch sensitivity: 0.13 μV or less (threshold)
- Selectivity:
  - [Wide] ±6 kHz or more/6 dB
  - ±14 kHz or less/60 dB
  - [Narrow] ±3 kHz or more/6 dB
  - ±9 kHz or less/55 dB
- Spurious and image rejection: 60 dB or more
- AF output power (at 13.8 V DC):
  - 3.5 W or more (4.5 W typical)
  - (at 10% distortion into the 4 Ω load)
- External speaker connector: 3-conductor 3.5 (d) mm (1/8 inch)/4 Ω

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

# SECTION 5 ADJUSTMENT PROCEDURE

The underlined parts have been updated from the addendum of the previous version, or from the original page.

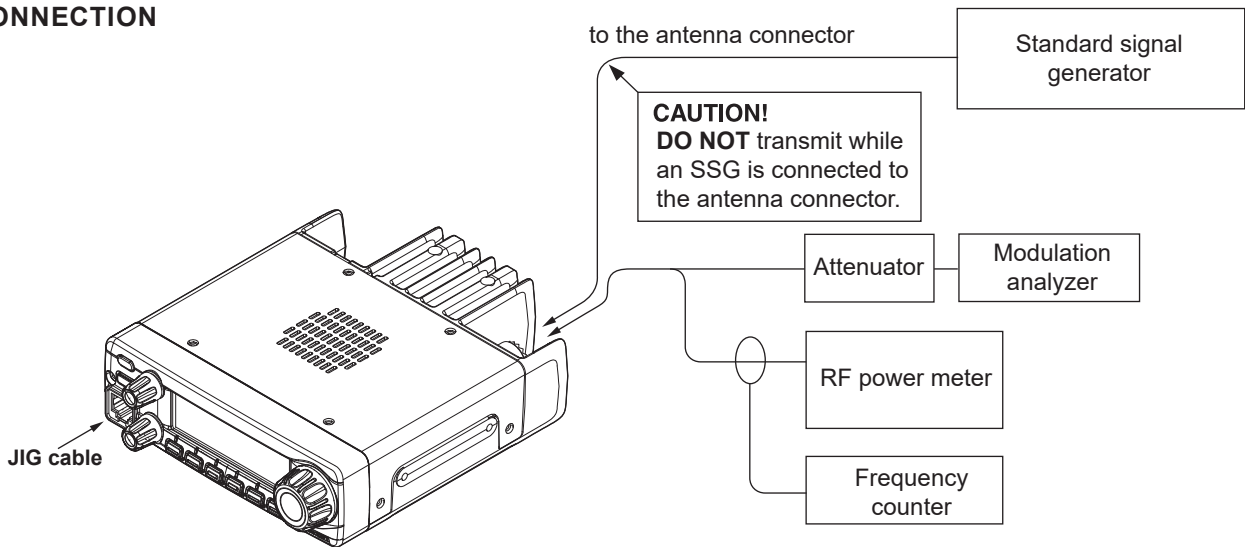
## 5-1 PREPARATION

### ■ REQUIRED EQUIPMENT

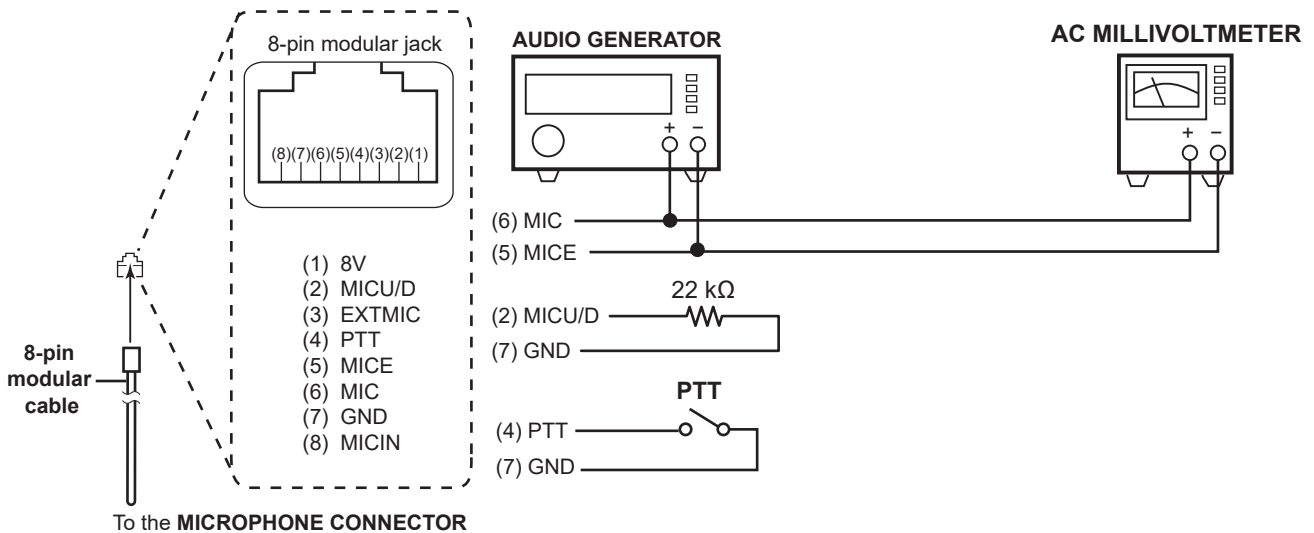
EQUIPMENT	GRADE AND RANGE	EQUIPMENT	GRADE AND RANGE
DC power supply	Voltage: <u>13.8 V DC</u> Current capacity: <u>At least 15 A</u>	JIG cable	Modified 8-pin modular cable (See the illustration shown below.)
RF power meter (50 Ω terminated)	Measuring range: 0.1~100 W Frequency range: 100~300 MHz SWR: 1.2 : 1 or better	Standard signal generator (SSG)	Frequency range: 0.1~300 MHz Output level: -20 dBμ to 90 dBμ (-127 to -17 dBm)
Modulation analyzer	Frequency range: 30~300 MHz Measuring range: 0 to ±10 kHz	<u>Distortion meter</u>	<u>Measuring accuracy: 3% or less at 1 kHz</u> <u>Input level: 50 mW to 10 V</u>
Frequency counter	Measuring range: 0.1~300 MHz Measuring accuracy: ±1 ppm or better	Audio generator (AG)	Frequency range: 300~3000 Hz Output level: 1~500 mV
Attenuator	Power attenuation: 40~60 dB Capacity: 70 W or more	External speaker	Input impedance: 4 Ω <u>Rated input: 4 W or more</u>
<u>Ammeter</u>	<u>Measuring range: 0~15 A</u>	AC millivoltmeter	Measuring range: 10 mV to 10 V

**CAUTION!:** BACK UP the originally programmed memory data in the transceiver, before starting the adjustments.  
When the adjustment is finished, the memory data will be cleared.

### ■ CONNECTION



### ■ JIG CABLE



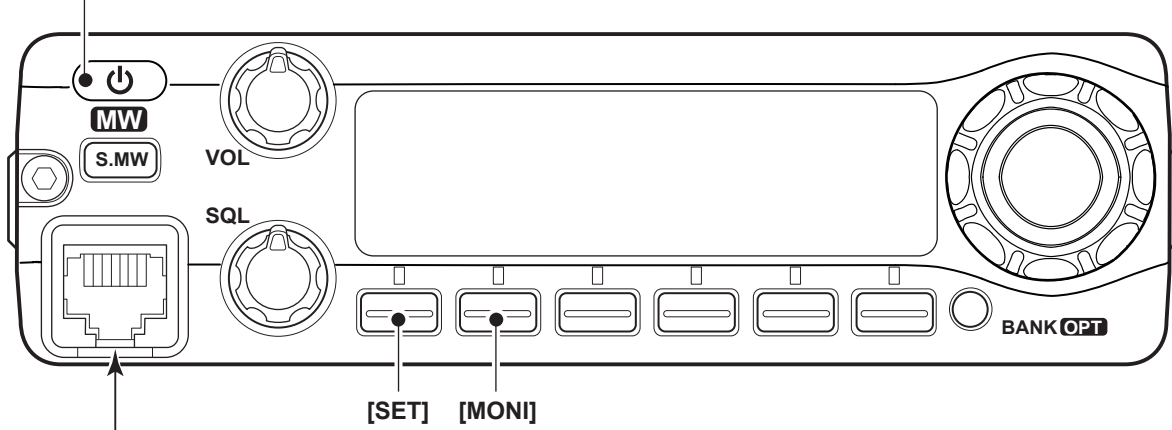
The underlined parts have been updated from the addendum of the previous version, or from the original page.

## 5-1 PREPARATION (CONTINUED)

### ■ ENTERING THE ADJUSTMENT MODE

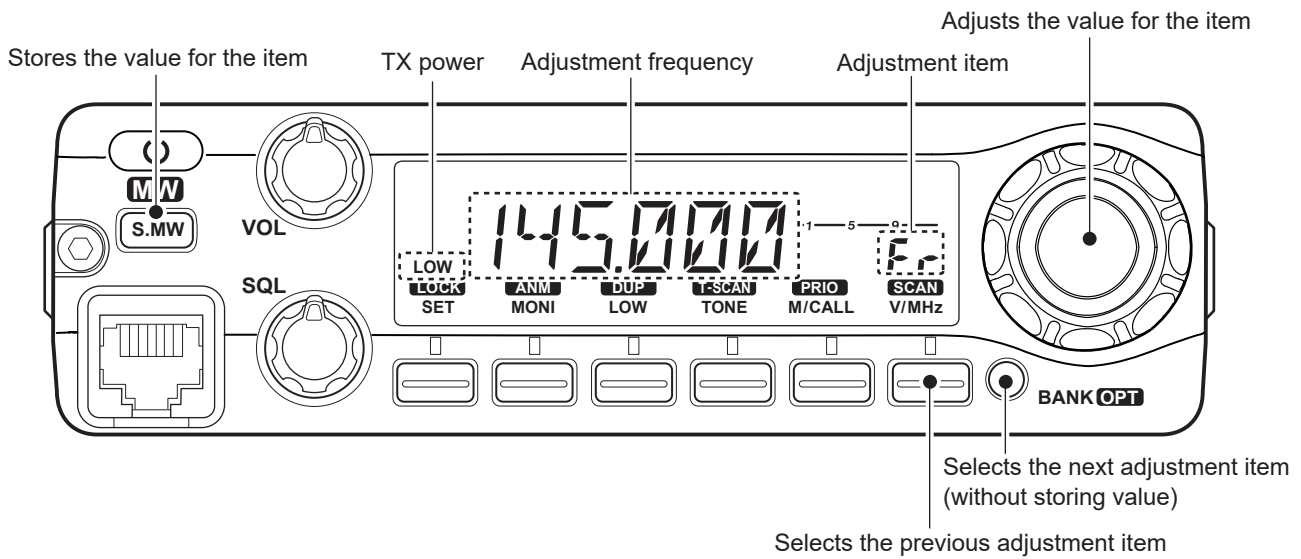
- 1) Turn OFF the power.
- 2) Connect the JIG cable (See page 5-1f) to the microphone connector.
- 3) While holding down **[SET]** and **[MONI]**, turn ON the power.

Push to turn ON the power.



Connect the JIG cable (See page 5-1f) here.

### ■ KEY ASSIGNMENTS FOR THE ADJUSTMENT MODE



### ■ QUITTING THE ADJUSTMENT MODE

- 1) Turn OFF the power.
- 2) Disconnect the JIG cable, and then turn ON the power.

## 5-2 FREQUENCY ADJUSTMENT

- 1) Select an adjustment item using **[BANK]** or **[V/MHz]**.
- 2) Set or modify the adjustment value as specified using **[DIAL]**, and then push **[S.MW]**.

ADJUSTMENT	TRANSCIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
REFERENCE FREQUENCY	1 • Transmitting	1) Connect the RF power meter to the antenna connector. 2) Loosely couple the frequency counter to the antenna connector. 3) While transmitting, adjust the frequency using <b>[DIAL]</b> , and then push <b>[S.MW]</b> to store the adjustment value.	<b>[F<sub>r</sub>]</b>	<b>Except [USA]:</b> 145.000000 MHz (Within ±100 Hz) <b>[USA]:</b> 146.000000 MHz (Within ±100 Hz)

The underlined parts have been updated from the addendum of the previous version, or from the original page.

### 5-3 TRANSMIT ADJUSTMENTS

- 1) Select an adjustment item using **[BANK]** or **[V/MHz]**.
  - 2) Set or modify the adjustment value as specified using **[DIAL]**, and then push **[S.MW]**.
- ① If you have any asks about the adjustment, contact your distributor for details.

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE	
<b>TX OUTPUT POWER</b> (High power) -Band low- ----- -Band center- ----- -Band high- ----- (Mid-High power) -Band low- ----- -Band center- ----- -Band high- ----- (Mid-Low power) -Band low- ----- -Band center- ----- -Band high- ----- (Low power) -Band low- ----- -Band center- ----- -Band high-	1	<b>NOTE:</b> Rotating <b>[DIAL]</b> in the TX adjustment mode without actually transmitting will result in an inaccurate adjustment.			
		• Transmitting	1) Connect the RF power meter to the antenna connector. 2) While transmitting, adjust the output power using <b>[DIAL]</b> , and then push <b>[S.MW]</b> to store the adjustment value.	$[P_o]$	(See the table below.)
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
12					

• Transmit output power adjustment value

Power level	[USA], [EXP-01/03/05]	[KOR]	[THA-03]
High	Band low: 60 W (within ±1 W)	52 W (within ±1 W)	60 W (within ±1 W)
	Band center: 66 W (within ±1 W)		
	Band high: 55 W (within ±1 W)		
Mid-High	25 W (within ±1 W)	25 W (within ±1 W)	
Mid-Low	10 W (within ±1 W)		
Low	5 W (within ±1 W)		

Continued on the next page...

The underlined parts have been updated from the addendum of the previous version, or from the original page.

### 5-3 TRANSMIT ADJUSTMENTS (CONTINUED)

- 1) Select an adjustment item using **[BANK]** or **[V/MHz]**.
- 2) Set or modify the adjustment value as specified using **[DIAL]**, and then push **[S.MW]**.

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE	
<b>FM DEVIATION</b> -Band low-	• Transmitting	1) Connect the modulation analyzer to the antenna connector, through the attenuator, and set it to: Detector: $(P-P)/2$ HPF: OFF LPF: 20 kHz 2) Connect the audio generator to the JIG cable, and set it to: Frequency: 1 kHz Level: <b>[USA]</b> 80 mVrms <b>Others</b> 20 mVrms 3) While transmitting, adjust the deviation using <b>[DIAL]</b> , and then push <b>[S.MW]</b> to store the adjustment value.	<b>[dE]</b>	±4.2 kHz (Within ±0.1 kHz)	
-Band center-					2
-Band high-					3
<b>MODULATION BALANCE</b> -Band low-	• Transmitting	1) Connect the modulation analyzer to the antenna connector, through the attenuator, and set it to: Detector: $(P-P)/2$ HPF: OFF LPF: 20 kHz 2) While transmitting, adjust the deviation using <b>[DIAL]</b> , and then push <b>[S.MW]</b> to store the adjustment value.	<b>[dt]</b>	±1.55 kHz (Within ±0.05 kHz)	
-Band center-					2
-Band high-					3
<b>TONES DEVIATION</b> -CTCSS-	• Transmitting	1) Connect a modulation analyzer to the antenna connector, through an attenuator, and set it to: Detector: $(P-P)/2$ HPF: OFF LPF: 20 kHz 2) While transmitting, adjust the deviation using <b>[DIAL]</b> , and then push <b>[S.MW]</b> to store the adjustment value.	<b>[dL]</b>	±0.75 kHz (Within ±0.05 kHz)	
-DTCS-			3		<b>[dd]</b>
-DTMF-			4	<b>[dF]</b>	±3.5 kHz (Within ±0.1 kHz)
-EUR-			5	<b>[dU]</b>	

The underlined parts have been updated from the addendum of the previous version, or from the original page.

### 5-4 RECEIVE ADJUSTMENTS

- 1) Select an adjustment item using **[BANK]** or **[V/MHz]**.
- 2) Set or modify the adjustment value as specified using **[DIAL]**, and then push **[S.MW]**.

\*The output level of the standard signal generator (SSG) is indicated as the SSG's load end (PD).

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE	
<b>RECEIVE SENSITIVITY</b> <b>-Band low-</b>	1	<b>NOTE: "RECEIVE SENSITIVITY" must be adjusted before "S-METER." And when "RECEIVE SENSITIVITY" is re-adjusted, "S-METER" must be re-adjusted too.</b>			
		• Receiving	1) Connect the SSG to the antenna connector, and set it to: Frequency: 136.020 MHz Level: 0 dBμ <sup>+</sup> (-107 dBm) Modulation: 1 kHz Deviation: ±3.5 kHz 2) Push <b>[S.MW]</b> .	<b>[61]</b>	Push <b>[S.MW]</b> . (Automatic adjustment)
	<b>-Band center-</b>	2	1) Set the SSG to: Frequency: 155.020 MHz 2) Push <b>[S.MW]</b> .	<b>[62]</b>	
<b>-Band high-</b>	3	1) Set the SSG to: Frequency: 173.980 MHz 2) Push <b>[S.MW]</b> .	<b>[63]</b>		
<b>SQUELCH</b> <b>(Wide)</b>	1	• Receiving	1) Connect the SSG to the antenna connector, and set it to: Level: OFF 2) Push <b>[S.MW]</b> .	<b>[59]</b>	Push <b>[S.MW]</b> . (Automatic adjustment)
	<b>(Narrow)</b>		2	<b>[57]</b>	
<b>S-METER</b> <b>(S1 level setting)</b>	1	<b>NOTE: "RECEIVE SENSITIVITY" must be adjusted before "S-METER." And when "RECEIVE SENSITIVITY" is re-adjusted, "S-METER" must be re-adjusted too.</b>			
		• Receiving	1) Connect the SSG to the antenna connector, and set it to: Frequency: <b>[USA]</b> 146.020 MHz <b>Others</b> 145.020 MHz Level: -7 dBμ <sup>+</sup> (-114 dBm) Modulation: OFF 2) Push <b>[S.MW]</b> .	<b>[51]</b>	Push <b>[S.MW]</b> . (Automatic adjustment)
	<b>(S3 level setting)</b>	3	1) Set the SSG to: Level: -2 dBμ <sup>+</sup> (-109 dBm) Modulation: OFF 2) Push <b>[S.MW]</b> .	<b>[52]</b>	
	<b>(S9++ level setting)</b>	4	1) Set the SSG to: Level: +12 dBμ <sup>+</sup> (-95 dBm) Modulation: OFF 2) Push <b>[S.MW]</b> .	<b>[53]</b>	
	<b>(Balance adjustment)</b> <b>-Band low-</b>	5	1) Connect the SSG to the antenna connector, and set it to: Frequency: 136.020 MHz Level: -2 dBμ <sup>+</sup> (-109 dBm) Modulation: OFF 2) Push <b>[S.MW]</b> .		
		<b>-Band center-</b>	6	1) Set the SSG to: Frequency: 145.020 MHz 2) Push <b>[S.MW]</b> .	
		<b>-Band high-</b>	7	1) Set the SSG to: Frequency: 173.980 MHz 2) Push <b>[S.MW]</b> .	

The underlined parts have been updated from the addendum of the previous version, or from the original page.

### 5-5 TRANSMIT VERIFICATION

- 1) Confirm the power supply voltage is 13.8 V, and connect the microphone to the **[MIC]** connector.
- 2) Turn ON the transceiver on the normal operating mode.
- ① The check point frequencies are any of the amateur band, we recommend 3 points, lower edge, higher edge and center frequencies.

ADJUSTMENT		MODE	OPERATION	Version	VALUE
<b>REFERENCE FREQUENCY</b>	1	FM	1) Connect the power meter to the antenna connector. 2) Loosely couple the frequency counter to the antenna connector. 3) While transmitting, verify the frequency.	<b>All versions</b>	Within 500 Hz of the Displayed frequency
<b>OUTPUT POWER -High-</b>	1	FM	1) Connect the power meter to the antenna connector. 2) While transmitting, verify the output power.	<b>[USA], [EXP-01/03/05]</b>	61~73 W
				<b>[SAU]</b>	16~24 W
				<b>[KOR]</b>	48~55 W
				<b>[THA-03]</b>	55~68 W
<b>-Mid High-</b>	2			<b>[USA], [EXP-01/03/05], [KOR], [THA-03]</b>	20~30 W
		<b>[SAU]</b>	7~13 W		
<b>-Mid Low-</b>	3			<b>[USA], [EXP-01/03/05], [KOR], [THA-03]</b>	7~13 W
<b>-Low-</b>	4			<b>All versions</b>	2.5~7 W
<b>TRANSMIT FLOWING CURRENT -HIGH-</b>	1	FM	1) Connect the power meter to the antenna connector. 2) Connect the current meter between the power supply and DC power connector. 3) While transmitting, verify the transmit current.	<b>[USA], [EXP-01/03/05], [KOR], [THA-03]</b>	11 A or less
				<b>[SAU]</b>	9 A or less
<b>-MID High-</b>	2			<b>[USA], [EXP-01/03/05], [KOR], [THA-03]</b>	9 A or less
				<b>[SAU]</b>	6 A or less
<b>-MID Low-</b>	3			<b>[USA], [EXP-01/03/05], [THA-03], [KOR]</b>	6 A or less
<b>-Low-</b>	4			<b>All versions</b>	5 A or less
<b>FM DEVIATION (MAXIMUM)</b>	1	FM	1) Connect the modulation analyzer to the antenna connector, through the attenuator, and set it to: Detector: (P-P)/2 HPF: OFF LPF: 20 kHz 2) Connect the audio generator to the MIC connector, and set it to: Frequency: 1 kHz Level: <b>[USA]</b> 80 mVrms <b>Others</b> 20 mVrms 3) While transmitting, verify the FM deviation.	<b>All versions</b>	±5.0 kHz or less
		FM-N			±2.5 kHz or less
<b>(STANDARD)</b>	2	FM	1) Set the audio generator output level so that the modulation analyzer shows ±3.5 kHz of deviation. 2) While transmitting, verify the audio generator output level.	<b>[USA]</b>	8 mV rms ±3 dB
				<b>All other versions</b>	2 mV rms ±3 dB
		FM-N	• Set the audio generator output level so that the modulation analyzer shows ±1.75 kHz of deviation.	<b>[USA]</b>	8 mV rms ±3 dB
				<b>All other versions</b>	2 mV rms ±3 dB
<b>(DTMF/EUR TONE)</b>	3	FM	1) Connect the modulation analyzer to the antenna connector, through the attenuator, and set it to: Detector: (P-P)/2 HPF: OFF LPF: 20 kHz 2) While transmitting, verify the FM deviation.	<b>All versions</b>	3.0~4.5 kHz (DTMF: Holding down [D] key)
<b>(CTCSS/DTCS)</b>	4				0.5~1.0 kHz

The underlined parts have been updated from the addendum of the previous version, or from the original page.

### 5-6 RECEIVE VERIFICATION

1) Confirm the power supply voltage is 13.8 V.

2) Turn ON the transceiver on the normal operating mode.

① The check point frequencies are any of the amateur band, we recommend 3 points, lower edge, higher edge and center frequencies.

\*The output level of the standard signal generator (SSG) is indicated as the SSG's load end (PD).

ADJUSTMENT		MODE	OPERATION	Version	VALUE
<b>RECEIVE SENSITIVITY</b>	1	FM	1) Connect the distortion meter with the external speaker to the [SP] jack. 2) Connect the SSG to the antenna connector, and set it to: Frequency:      Displayed frequency Modulation:      1 kHz Deviation:       ±3.5 kHz Level:              To the level so that the distortion meter shows 12 dB SINAD.	<b>[SAU]</b>	-12 dBμ <sup>†</sup> (-119 dBm) or less
				<b>All other versions</b>	-15 dBμ <sup>†</sup> (-122 dBm) or less
<b>SQUELCH SENSITIVITY -Threshold-</b>	1	FM	1) Connect the SSG to the antenna connector, and set it to: Frequency:      Displayed frequency Modulation:      OFF Level:              OFF 2) Set the [SQL] control to the level so that the squelch just closed (threshold point). 3) Set the SSG as: Level:              To the level so that the squelch just opens.	<b>[SAU]</b>	-15 dBμ <sup>†</sup> (-122 dBm) or less
				<b>All other versions</b>	-18 dBμ <sup>†</sup> (-125 dBm) or less
<b>SQUELCH SENSITIVITY -Tight-</b>	1	FM	1) Connect the SSG to the antenna connector, and set it to: Frequency:      Displayed frequency Modulation:      OFF Level:              OFF 2) Set the [SQL] control to the maximum clockwise position. 3) Set the SSG as: Level:              To the level so that the squelch just opens.	<b>All versions</b>	15 dBμ <sup>†</sup> (-92 dBm) or less
<b>AUDIO OUTPUT POWER</b>	1	FM	1) Connect the distortion meter with the external speaker to the [SP] jack. 2) Connect the SSG to the antenna connector, and set it to: Frequency:      Displayed frequency Modulation:      1 kHz Deviation:       ±3.5 kHz Level:              60 dBμ <sup>†</sup> (-47 dBm) 3) Set the [VOL] control to the level so that the distortion meter shows 10% distortion.	<b>All versions</b>	3.5 W (≈3.75 Vrms) or more
<b>RECEIVE FLOWING CURRENT</b>	1	FM	1) Connect the ammeter between the power supply and DC power connector. 2) Connect the distortion meter with the external speaker to the [SP] jack. 3) Connect the SSG to the antenna connector, and set it to: Frequency:      Displayed frequency Modulation:      1 kHz Deviation:       ±3.5 kHz Level:              60 dBμ <sup>†</sup> (-47 dBm) 4) Set the [VOL] control to the maximum level.	<b>All versions</b>	1.5 A or less

# SECTION 6

# PARTS LIST

The underlined parts have been updated from the addendum of the previous version, or from the original page.

### [LOGIC UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140015980	S.IC R5F2L3AACNFP	B	56.7/16.5
IC3	1110008170	S.IC NJM2747V-TE1	B	27.5/17.6
IC4	1110007620	S.IC NJU7704F3-42A-TE1	B	111.6/23.2
IC5	1130016260	S.IC BR24T64FVT-WE2	B	11.3/24.1
IC6	1130011770	S.IC CD4066BPWR	B	40.9/18.2
IC24	1110006490	S.IC LHMV321IDCKR	B	17.9/14.0
IC25	<u>1110008680</u>	S.IC NJU72341V-TE2	T	26.1/18.4
IC28	1130011770	S.IC CD4066BPWR	B	13.3/22.3
IC29	1130011760	S.IC CD4094BPWR	B	50.5/25.2
IC30	1130011760	S.IC CD4094BPWR	B	49.5/17.9
Q1	1530004140	S.TRA L2SC4081RT1G	B	14.7/8.6
Q2	1590004070	S.TRA LDT0144EET1G	B	45.5/11.4
Q3	1590004390	S.TRA DMG504010R	B	53.7/9.4
Q5	1590004100	S.TRA LDT0144EET1G	B	85.8/15.1
Q7	1530002851	S.TRA 2SC4116-BL (TE85RF)	B	79.9/16.8
Eqv.	1530002852	S.TRA 2SC4116-BLLF		
Q8	1530002851	S.TRA 2SC4116-BL (TE85RF)	B	76.7/12.3
Eqv.	1530002852	S.TRA 2SC4116-BLLF		
Q10	1530002851	S.TRA 2SC4116-BL (TE85RF)	B	77.4/16.8
Eqv.	1530002852	S.TRA 2SC4116-BLLF		
Q11	1530002851	S.TRA 2SC4116-BL (TE85RF)	B	80.1/12.5
Eqv.	1530002852	S.TRA 2SC4116-BLLF		
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	15.2/11.8
D2	1750001810	S.DIO L1SS400T1G	B	10.2/7.4
D3	1750002040	S.ZEN DZ2J091M0L	B	2.8/10.9
D4	1750001850	S.DIO LDAN222T1G	T	111.7/15.6
D6	1750000370	S.DIO DA221 TL	B	87.7/16.4
Eqv.	1750001820	S.DIO LRB706F-40T1G		
D7	1750001850	S.DIO LDAN222T1G	T	98.3/1.7
D8	1750001850	S.DIO LDAN222T1G	T	62.3/1.7
D9	1750001850	S.DIO LDAN222T1G	T	50.3/1.7
D12	1750001810	S.DIO L1SS400T1G	B	125.7/5.1
	1750001810	S.DIO L1SS400T1G	[#06]	
	1750001810	S.DIO L1SS400T1G	[#17]	
D13	1750001810	S.DIO L1SS400T1G	B	126.9/5.1
	1750001810	S.DIO L1SS400T1G	[#05]	
	1750001810	S.DIO L1SS400T1G	[#06]	
	1750001810	S.DIO L1SS400T1G	[#17]	
D16	1750001810	S.DIO L1SS400T1G	B	128.1/7.6
	1750001810	S.DIO L1SS400T1G	[#10]	
	1750001810	S.DIO L1SS400T1G	[#13]	
	1750001810	S.DIO L1SS400T1G	[#17]	
D17	1750001810	S.DIO L1SS400T1G	B	129.3/7.6
	1750001810	S.DIO L1SS400T1G	[#20]	
	1750001810	S.DIO L1SS400T1G	[#06]	
	1750001810	S.DIO L1SS400T1G	[#10]	
	1750001810	S.DIO L1SS400T1G	[#13]	
	1750001810	S.DIO L1SS400T1G	[#20]	
D21	1750001850	S.DIO LDAN222T1G	T	108.6/1.7
D22	1750001810	S.DIO L1SS400T1G	B	125.7/7.6
	1750001810	S.DIO L1SS400T1G	[#10]	
	1750001810	S.DIO L1SS400T1G	[#13]	
	1750001810	S.DIO L1SS400T1G	[#20]	
D23	1750001810	S.DIO L1SS400T1G	B	126.9/7.6
	1750001810	S.DIO L1SS400T1G	[#06]	
	1750001810	S.DIO L1SS400T1G	[#17]	
D25	1750000771	S.VAR HVC376BTRF-E	B	84.4/6.2
D27	1750001810	S.DIO L1SS400T1G	B	125.7/10.1
D28	1750001810	S.DIO L1SS400T1G	B	126.9/10.1
	1750001810	S.DIO L1SS400T1G	[#05]	
	1750001810	S.DIO L1SS400T1G	[#06]	
	1750001810	S.DIO L1SS400T1G	[#17]	
D32	1750001810	S.DIO L1SS400T1G	B	7.0/4.9
D33	1750001810	S.DIO L1SS400T1G	B	99.0/5.0
D36	1750001810	S.DIO L1SS400T1G	T	112.5/13.2
D37	1750001810	S.DIO L1SS400T1G	B	87.8/18.1
X1	6050013180	S.XTA CR-910 (9.8304 MHz)	B	89.8/7.9
R1	<u>7030016360</u>	S.RES RMC1/16S-123JTH (12 k)	B	17.0/15.8
R2	<u>7030016140</u>	S.RES RMC1/16S-124JTH (120 k)	B	15.8/15.4
R3	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	B	17.0/11.8
R5	<u>7030016100</u>	S.RES RMC1/16S-334JTH (330 k)	B	14.9/15.4
R6	<u>7030016070</u>	S.RES RMC1/16S-474JTH (470 k)	B	20.1/13.8
R7	7510001770	S.THE NTCG10 4LH 473JT	T	112.1/23.0
R8	<u>7030016290</u>	S.RES RMC1/16S-222JTH (2.2 k)	B	12.5/7.3
R9	<u>7030016090</u>	S.RES RMC1/16S-223JTH (22 k)	B	12.0/8.5
R10	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	B	14.7/6.8
R11	7030005830	S.RES RR0510P-223-D (22 k)	T	112.6/24.2
R12	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	12.9/8.5
R14	<u>7030015960</u>	S.RES RMC1/16S-472JTH (4.7 k)	B	14.0/15.4
R15	<u>7030016050</u>	S.RES RMC1/16S-102JTH (1 k)	B	13.1/15.4
R16	<u>7030015990</u>	S.RES RMC1/16S-683JTH (68 k)	B	55.5/13.3
R17	<u>7030015990</u>	S.RES RMC1/16S-683JTH (68 k)	B	54.1/12.8
R18	<u>7030016400</u>	S.RES RMC1/16S-564JTH (560 k)	B	45.6/26.3
R19	<u>7030016050</u>	S.RES RMC1/16S-102JTH (1 k)	B	34.3/21.3
R21	<u>7030015990</u>	S.RES RMC1/16S-683JTH (68 k)	B	53.7/11.6
R24	<u>7030016330</u>	S.RES RMC1/16S-153JTH (15 k)	B	51.6/9.8
R25	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	B	51.6/10.7
R27	<u>7030016340</u>	S.RES RMC1/16S-393JTH (39 k)	B	44.4/13.0
R28	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	51.6/8.0
R29	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	B	55.4/9.8
R30	<u>7030016330</u>	S.RES RMC1/16S-153JTH (15 k)	T	27.1/13.6
R31	<u>7030016040</u>	S.RES RMC1/16S-224JTH (220 k)	B	105.4/7.9
R32	<u>7030016350</u>	S.RES RMC1/16S-122JTH (1.2 k)	B	54.6/6.6
R34	<u>7030015990</u>	S.RES RMC1/16S-683JTH (68 k)	B	51.0/21.8

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

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
R35	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	30.3/14.4
R36	<u>7030016360</u>	S.RES RMC1/16S-123JTH (12 k)	B	96.5/6.6
R37	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	55.4/8.2
R39	<u>7030016200</u>	S.RES RMC1/16S-274JTH (270 k)	B	33.4/16.0
R40	<u>7030016110</u>	S.RES RMC1/16S-473JTH (47 k)	T	93.0/17.2
R41	<u>7030016360</u>	S.RES RMC1/16S-123JTH (12 k)	B	84.8/7.3
R45	<u>7030016430</u>	S.RES RMC1/16S-392JTH (3.9 k)	B	32.1/22.6
R47	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	11.8/6.4
R48	<u>7030016060</u>	S.RES RMC1/16S-105JTH (1 M)	B	93.3/8.9
R49	<u>7030016190</u>	S.RES RMC1/16S-273JTH (27 k)	B	32.1/21.7
R50	<u>7030016060</u>	S.RES RMC1/16S-105JTH (1 M)	B	32.9/18.4
R51	<u>7030016150</u>	S.RES RMC1/16S-100JTH (10)	B	92.2/10.8
R53	<u>7030016310</u>	S.RES RMC1/16S-155JTH (1.5 M)	B	32.5/19.6
R56	<u>7030015350</u>	S.RES RMC1/16-683JTP (68 k)	B	35.1/15.4
R57	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	B	107.9/4.7
R58	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	108.8/4.7
R59	<u>7030016330</u>	S.RES RMC1/16S-153JTH (15 k)	B	87.6/14.5
R60	<u>7030016040</u>	S.RES RMC1/16S-224JTH (220 k)	B	106.3/8.8
R61	7210003340	VAR R0903N-B50KL-20F		
R62	7210003340	VAR R0903N-B50KL-20F		
R70	<u>7030016340</u>	S.RES RMC1/16S-393JTH (39 k)	B	38.0/20.6
R73	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	36.7/18.0
R74	<u>7030016030</u>	S.RES RMC1/16S-154JTH (150 k)	B	34.2/22.0
R76	<u>7030016380</u>	S.RES RMC1/16S-183JTH (18 k)	B	36.0/25.2
R78	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	36.0/26.8
R79	<u>7030016280</u>	S.RES RMC1/16S-331JTH (330)	T	76.6/8.0
R80	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	T	76.6/6.4
R82	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	B	79.7/10.8
R83	<u>7030016260</u>	S.RES RMC1/16S-330JTH (33)	T	44.5/18.2
R84	<u>7030015950</u>	S.RES RMC1/16S-152JTH (1.5 k)	B	22.6/21.7
R85	<u>7030015960</u>	S.RES RMC1/16S-472JTH (4.7 k)	B	80.5/14.6
R86	<u>7030016260</u>	S.RES RMC1/16S-330JTH (33)	T	43.6/18.2
R87	7410001130	S.ARR EXB28V102JX	B	112.5/14.8
R88	<u>7030016260</u>	S.RES RMC1/16S-330JTH (33)	T	66.5/18.2
R89	<u>7030016260</u>	S.RES RMC1/16S-330JTH (33)	T	65.6/18.2
R90	<u>7030016280</u>	S.RES RMC1/16S-331JTH (330)	B	79.2/14.6
R91	<u>7030016140</u>	S.RES RMC1/16S-124JTH (120 k)	T	29.8/22.1
R92	<u>7030016140</u>	S.RES RMC1/16S-124JTH (120 k)	T	31.9/22.1
R93	<u>7030016050</u>	S.RES RMC1/16S-102JTH (1 k)	B	59.0/21.4
R94	<u>7030016260</u>	S.RES RMC1/16S-330JTH (33)	T	88.5/18.2
R95	<u>7030016270</u>	S.RES RMC1/16S-151JTH (150)	B	76.7/14.6
R97	<u>7030016260</u>	S.RES RMC1/16S-330JTH (33)	T	87.6/18.2
R99	<u>7030015960</u>	S.RES RMC1/16S-472JTH (4.7 k)	B	78.0/14.6
R101	<u>7030015960</u>	S.RES RMC1/16S-472JTH (4.7 k)	T	8.2/14.7
R103	<u>7030016030</u>	S.RES RMC1/16S-154JTH (150 k)	B	22.6/16.0
R104	<u>7030016330</u>	S.RES RMC1/16S-153JTH (15 k)	B	20.8/17.0
R105	<u>7030016560</u>	S.RES RMC1/16S-103JPTH	B	22.2/17.2
R108	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	B	111.2/20.6
R114	<u>7030016050</u>	S.RES RMC1/16S-102JTH (1 k)	B	81.5/7.3
R133	<u>7030016110</u>	S.RES RMC1/16S-473JTH (47 k)	B	94.7/8.0
R134	<u>7030016110</u>	S.RES RMC1/16S-473JTH (47 k)	B	44.4/25.9
R135	<u>7030015960</u>	S.RES RMC1/16S-472JTH (4.7 k)	T	127.5/26.6
R137	<u>7030016040</u>	S.RES RMC1/16S-224JTH (220 k)	B	107.2/8.0
R519	<u>7030015940</u>	S.RES RMC1/16S-681JTH (680)	B	34.6/16.4
R554	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	B	82.7/7.7
R555	7410001130	S.ARR EXB28V102JX	T	106.0/15.4
R556	7410001130	S.ARR EXB28V102JX	T	106.1/12.4
R557	7410001130	S.ARR EXB28V102JX	T	102.5/11.0
R558	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	B	56.4/13.3
R559	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	56.4/10.9
R561	<u>7030016560</u>	S.RES RMC1/16SJPTH	B	100.0/4.4
R562	<u>7030016560</u>	S.RES RMC1/16SJPTH	B	91.0/11.3
R563	<u>7030016200</u>	S.RES RMC1/16S-274JTH (270 k)	B	45.6/25.4
R564	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	51.3/22.1
R565	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	48.0/22.1
R566	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	55.5/26.9
R567	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	55.5/26.0
R568	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	55.5/25.1
R569	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	55.5/24.2
R570	<u>7030016110</u>	S.RES RMC1/16S-473JTH (47 k)	T	130.4/23.3
R571	<u>7030016560</u>	S.RES RMC1/16SJPTH	B	109.0/7.5
R572	<u>7030016560</u>	S.RES RMC1/16SJPTH	B	20.1/14.7
R573	<u>7030016050</u>	S.RES RMC1/16S-102JTH (1 k)	B	7.1/6.9
R574	<u>7030016060</u>	S.RES RMC1/16S-105JTH (1 M)	B	42.6/21.5
R575	<u>7030016090</u>	S.RES RMC1/16S-223JTH (22 k)	B	35.5/19.1
R576	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	87.5/20.4
R577	<u>7030015960</u>	S.RES RMC1/16S-472JTH (4.7 k)	B	88.4/20.4
R578	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	109.4/8.7
C4	<u>4030023820</u>	S.CER 0603B104K250CT	T	113.6/25.5
Eqv.	4030026170	S.CER MG18B104K250CT		
C5	<u>4030022860</u>	S.CER 0402N470J500CT	B	59.9/20.6
C7	4030017460	S.CER C1005 JB 1H 102K-T	B	60.3/13.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C8	4030016790	S.CER C1005 JB 1E 103K-T	B	18.3/12.2
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C10	4030017460	S.CER C1005 JB 1H 102K-T	B	60.8/20.0
Eqv.	4030023090	S.CER 0		

The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[LOGIC UNIT]**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C13	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	61.2/13.2
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
	<u>4030026210</u>	S.CER MG15B102K500CT		
C14	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	72.3/20.5
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C15	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	62.8/20.5
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C16	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	2.9/13.0
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C20	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	6.0/6.0
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C23	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	8.4/6.9
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C28	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	11.9/16.8
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C30	<u>4030022860</u>	S.CER 0402N470J500CT	B	65.3/13.2
C31	<u>4030023050</u>	S.CER 0402B153K250CT	B	16.1/11.8
C33	<u>4030023020</u>	S.CER 0402B473K160CT	B	13.1/17.0
C34	<u>4030023250</u>	S.CER 0402B682K500CT	B	54.6/14.0
C35	<u>4030022960</u>	S.CER 0402B333K100CT	B	52.8/11.6
C37	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	B	50.0/10.7
Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
C38	<u>4030023120</u>	S.CER 0402B182K500CT	B	51.6/11.6
C39	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	95.6/7.5
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C41	<u>4030016930</u>	S.CER C1005 JB 1A 104K-T	B	33.8/22.5
Eqv.	<u>4030022940</u>	S.CER 0402B104K100CT		
Eqv.	<u>4030026190</u>	S.CER MG15B104K100CT		
C42	<u>4030022980</u>	S.CER 0402B473K100CT	T	25.9/13.2
C43	<u>4030022980</u>	S.CER 0402B473K100CT	B	44.0/11.8
C44	<u>4030022990</u>	S.CER 0402B563K100CT	T	28.3/13.2
C45	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	B	96.5/5.0
Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
C46	<u>4030023070</u>	S.CER 0402B223K250CT	B	56.6/8.1
C47	<u>4030016930</u>	S.CER C1005 JB 1A 104K-T	B	34.9/17.6
Eqv.	<u>4030022940</u>	S.CER 0402B104K100CT		
Eqv.	<u>4030026190</u>	S.CER MG15B104K100CT		
C48	<u>4030023130</u>	S.CER 0402B222K500CT	B	56.6/7.2
C49	<u>4030016930</u>	S.CER C1005 JB 1A 104K-T	B	109.8/22.7
Eqv.	<u>4030022940</u>	S.CER 0402B104K100CT		
Eqv.	<u>4030026190</u>	S.CER MG15B104K100CT		
C51	<u>4030022950</u>	S.CER 0402B273K100CT	B	111.4/25.0
C52	<u>4030022860</u>	S.CER 0402N470J500CT	T	7.3/27.6
C53	<u>4030022670</u>	S.CER 0402N121J500CT	B	86.1/16.7
C54	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	B	33.4/21.2
Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
C55	<u>4030022630</u>	S.CER 0402N100C500CT	B	92.9/10.1
C56	<u>4030023130</u>	S.CER 0402B222K500CT	B	32.1/20.8
C57	<u>4030023150</u>	S.CER 0402B272K500CT	B	33.4/19.6
C58	<u>4030023210</u>	S.CER 0402B472K500CT	T	106.1/17.1
C59	<u>4030022680</u>	S.CER 0402N150J500CT	B	94.0/9.5
C60	<u>4030023210</u>	S.CER 0402B472K500CT	B	110.7/13.2
C61	<u>4030023210</u>	S.CER 0402B472K500CT	T	110.3/12.7
C62	<u>4030016930</u>	S.CER C1005 JB 1A 104K-T	B	110.7/6.5
Eqv.	<u>4030022940</u>	S.CER 0402B104K100CT		
Eqv.	<u>4030026190</u>	S.CER MG15B104K100CT		
C64	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	B	85.9/13.5
Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
C66	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	B	43.5/15.0
Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
C67	<u>4030019560</u>	S.CER GRM21B8B31C106KE15L	T	95.4/17.6
C68	<u>4030016930</u>	S.CER C1005 JB 1A 104K-T	T	99.0/10.9
Eqv.	<u>4030022940</u>	S.CER 0402B104K100CT		
Eqv.	<u>4030026190</u>	S.CER MG15B104K100CT		
C69	<u>4030023060</u>	S.CER 0402B183K250CT	B	42.6/23.3
C70	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	T	111.7/24.2
Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
C71	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	B	40.2/14.1
Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
C73	<u>4030019620</u>	S.CER GRM188B31C225KE14D	B	40.7/13.0
C74	<u>4030023190</u>	S.CER 0402B392K500CT	B	20.5/20.5
C75	<u>4030023140</u>	S.CER 0402B271K500CT	B	22.6/19.3
C76	<u>4030022960</u>	S.CER 0402B333K100CT	B	21.4/22.2
C77	<u>4030019620</u>	S.CER GRM188B31C225KE14D	T	31.9/19.5
C78	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	B	26.1/14.4
Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
C79	<u>4030022750</u>	S.CER 0402N221J500CT	B	21.7/16.0
C80	<u>4030019990</u>	S.CER C1005 JB 1C 104K-T	B	82.7/6.1
Eqv.	<u>4030023010</u>	S.CER 0402B104K160CT		
Eqv.	<u>4030026220</u>	S.CER MG15B104K160CT		
C82	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	83.6/7.7
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C83	<u>4030022360</u>	S.CER GRM188R61A226ME15D	T	29.5/19.5
C84	<u>4030025460</u>	S.CER C1608 JB 1A 106KT	I	30.7/19.5

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C85	<u>4030019990</u>	S.CER C1005 JB 1C 104K-T	B	22.1/14.8
Eqv.	<u>4030023010</u>	S.CER 0402B104K160CT		
Eqv.	<u>4030026220</u>	S.CER MG15B104K160CT		
C86	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	10.1/23.7
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C87	<u>4030018890</u>	S.CER C1005 JB 0J 224K-T	B	108.1/8.0
C88	<u>4030018890</u>	S.CER C1005 JB 0J 224K-T	B	45.2/27.5
C89	<u>4030016930</u>	S.CER C1005 JB 1A 104K-T	B	46.2/15.4
Eqv.	<u>4030022940</u>	S.CER 0402B104K100CT		
Eqv.	<u>4030026190</u>	S.CER MG15B104K100CT		
C90	<u>4030023210</u>	S.CER 0402B472K500CT	T	100.4/11.6
C91	<u>4030023210</u>	S.CER 0402B472K500CT	B	109.4/9.6
C92	<u>4030023210</u>	S.CER 0402B472K500CT	T	104.5/10.9
C94	<u>4030023210</u>	S.CER 0402B472K500CT	B	110.0/12.3
C95	<u>4030023210</u>	S.CER 0402B472K500CT	B	110.0/11.4
C96	<u>4030023210</u>	S.CER 0402B472K500CT	B	109.4/10.5
C97	<u>4030023210</u>	S.CER 0402B472K500CT	T	106.1/10.7
C99	<u>4030023170</u>	S.CER 0402B332K500CT	B	56.8/12.1
C100	<u>4030023160</u>	S.CER 0402B331K500CT	B	57.6/10.0
C101	<u>4030016930</u>	S.CER C1005 JB 1A 104K-T	B	53.0/21.9
Eqv.	<u>4030022940</u>	S.CER 0402B104K100CT		
Eqv.	<u>4030026190</u>	S.CER MG15B104K100CT		
C102	<u>4030018890</u>	S.CER C1005 JB 0J 224K-T	B	106.9/6.8
C103	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	58.0/13.4
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C104	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	111.7/19.4
Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
C105	<u>4030016930</u>	S.CER C1005 JB 1A 104K-T	B	44.4/24.3
Eqv.	<u>4030022940</u>	S.CER 0402B104K100CT		
Eqv.	<u>4030026190</u>	S.CER MG15B104K100CT		
C108	<u>4550007080</u>	S.TAN TEESVA 1C 106M8R	B	9.5/17.4
Eqv.	<u>4550008220</u>	S.TAN F931C106MAA		
Eqv.	<u>4550009180</u>	S.TAN 267E1602106MR533		
C109	<u>4030023070</u>	S.CER 0402B223K250CT	B	36.1/20.9
J1	6450002210	CON 3017-8821		
DS1	<u>5030004190</u>	LCD L5-1064TRR		
DS3	<u>5040003470</u>	S.LED HT-297UY/UYG	T	44.0/20.0
DS5	<u>5040003470</u>	S.LED HT-297UY/UYG	T	55.0/20.0
DS6	<u>5040003470</u>	S.LED HT-297UY/UYG	T	66.0/20.0
DS7	<u>5040003470</u>	S.LED HT-297UY/UYG	T	77.0/20.0
DS8	<u>5040003470</u>	S.LED HT-297UY/UYG	T	88.0/20.0
DS9	<u>5040003470</u>	S.LED HT-297UY/UYG	T	99.0/20.0
S1	2260002740	S.SWI LS8J2M-T	T	10.0/30.6
S2	2260002740	S.SWI LS8J2M-T	T	101.5/4.8
S3	2260002740	S.SWI LS8J2M-T	T	89.5/4.8
S4	2260002740	S.SWI LS8J2M-T	T	77.5/4.8
S5	2260002740	S.SWI LS8J2M-T	T	65.5/4.8
S6	2260002740	S.SWI LS8J2M-T	T	53.5/4.8
S7	2260002740	S.SWI LS8J2M-T	T	41.5/4.8
S8	2260002740	S.SWI LS8J2M-T	T	10.0/21.3
S9	2250000790	ENC EC12E24204A9		
S10	2260002740	S.SWI LS8J2M-T	T	111.8/4.8
EP1	<u>6910018460</u>	S.BEA MMZ1005Y102C-T	B	15.6/13.2
EP2	<u>6910012350</u>	S.BEA MMZ1608Y 102BT	T	11.5/14.6
EP3	<u>6910018460</u>	S.BEA MMZ1005Y102C-T	B	12.2/15.4
EP4	<u>6910018460</u>	S.BEA MMZ1005Y102C-T	T	9.7/14.4
EP5	<u>6910018460</u>	S.BEA MMZ1005Y102C-T	B	8.4/8.5
EP6	<u>6910018460</u>	S.BEA MMZ1005Y102C-T	B	7.1/8.5
EP7	<u>6910018460</u>	S.BEA MMZ1005Y102C-T	T	6.4/14.7
EP8	<u>6910012350</u>	S.BEA MMZ1608Y 102BT	B	4.6/8.0
EP9	8930084270	LCD SRCN-3251-SP-N-W SHU		

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.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

[MAIN UNIT]

Table with columns: REF NO., PART NO., DESCRIPTION, M., H/V LOCATION. It lists various electronic components and their specifications, organized in two main columns.

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.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

[MAIN UNIT]

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION	REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
R72	<u>7030015930</u>	S.RES RMC1/16S-471JTH (470)	B	38.6/15.0	R200	<u>7030016340</u>	S.RES RMC1/16S-393JTH (39 k)	T	47.5/47.6
R73	7030012340	S.RES RR0510P-821-D	B	38.6/14.1	R201	7030016560	S.RES RMC1/16SJPJTH	T	51.4/43.6
R74	7030011180	S.RES RR0510P-391-D (390)	B	38.6/13.2	R202	<u>7030016560</u>	S.RES RMC1/16SJPJTH	B	78.0/23.3
R76	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	21.7/19.3	R204	7030015970	S.RES RMC1/16S-103JTH (10 k)	T	75.6/8.2
R78	<u>7030016270</u>	S.RES RMC1/16S-151JTH (150)	B	22.2/18.1	R206	<u>7030016740</u>	S.RES RMC1/16SK474DTH (470 k)	B	18.6/41.0
R79	<u>7030016500</u>	S.RES RMC1/16S-562JTH (5.6 k)	B	81.6/16.3	R207	<u>7030016750</u>	S.RES RMC1/16SK124DTH (120 k)	B	18.6/39.4
R80	<u>7030016500</u>	S.RES RMC1/16S-562JTH (5.6 k)	B	78.5/11.0	R208	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	40.7/5.9
R84	<u>7030016170</u>	S.RES RMC1/16S-560JTH (56)	B	38.7/26.1	R209	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	27.5/6.5
R85	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	25.5/5.0	R210	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	T	25.7/11.3
R86	<u>7030015960</u>	S.RES RMC1/16S-472JTH (47 k)	B	44.8/30.8	R211	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	29.5/8.4
R87	<u>7030015960</u>	S.RES RMC1/16S-472JTH (47 k)	T	21.7/39.2	R212	<u>7030016290</u>	S.RES RMC1/16S-222JTH (2.2 k)	B	21.4/40.7
R88	<u>7030016210</u>	S.RES RMC1/16S-121JTH (120)	T	23.2/40.8	R213	<u>7030016290</u>	S.RES RMC1/16S-222JTH (2.2 k)	B	21.2/49.0
R89	<u>7030015900</u>	S.RES RMC1/16S-470JTH (47)	T	22.0/41.3	R214	<u>7030015910</u>	S.RES RMC1/16S-101JTH (100)	T	21.5/48.0
R90	<u>7030016100</u>	S.RES RMC1/16S-334JTH (330 k)	B	18.8/2.9	R215	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	22.9/25.4
R91	<u>7030016210</u>	S.RES RMC1/16S-121JTH (120)	T	23.2/41.7	R216	<u>7030015970</u>	S.RES RMC1/16S-103JTH (10 k)	T	19.4/21.5
R92	<u>7030016190</u>	S.RES RMC1/16S-273JTH (27 k)	B	24.4/4.1	R217	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	23.3/22.2
R93	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	19.2/17.1	R218	<u>7030015670</u>	S.RES RMC1/10-4R7JTP (4.7 k)	B	14.3/18.9
R94	<u>7030016290</u>	S.RES RMC1/16S-222JTH (2.2 k)	T	20.4/43.6	R220	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	95.9/10.2
R96	<u>7030015910</u>	S.RES RMC1/16S-101JTH (100)	T	21.9/49.2	R225	<u>7030016560</u>	S.RES RMC1/16SJPJTH	T	75.4/29.7
R97	<u>7030016290</u>	S.RES RMC1/16S-222JTH (2.2 k)	T	20.9/44.8	R230	<u>7030016560</u>	S.RES RMC1/16SJPJTH	B	38.8/24.5
R98	<u>7030016460</u>	S.RES RMC1/16S-181JTH (180)	T	24.7/44.5	R231	<u>7030016170</u>	S.RES RMC1/16S-560JTH (56)	B	38.2/27.7
R99	<u>7030016190</u>	S.RES RMC1/16S-273JTH (27 k)	T	33.9/49.2	R233	<u>7030016330</u>	S.RES RMC1/16S-333JTH (33 k)	T	71.5/9.0
R100	<u>7030015980</u>	S.RES RMC1/16S-333JTH (33 k)	T	33.9/47.4	R234	<u>7030016190</u>	S.RES RMC1/16S-273JTH (27 k)	B	24.3/5.6
R102	<u>7030016180</u>	S.RES RMC1/16S-680JTH (68)	T	32.9/46.5	R235	<u>7030016050</u>	S.RES RMC1/16S-102JTH (1 k)	T	64.8/44.3
R105	<u>7030016290</u>	S.RES RMC1/16S-222JTH (2.2 k)	B	21.4/41.6	C2	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	53.8/8.3
R106	<u>7030016090</u>	S.RES RMC1/16S-223JTH (22 k)	T	33.9/50.1	Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
R108	<u>7030015910</u>	S.RES RMC1/16S-101JTH (100)	T	26.4/51.5	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R109	<u>7030015980</u>	S.RES RMC1/16S-333JTH (33 k)	T	34.3/53.1	C3	<u>4030020000</u>	S.CER C1005 JB 1A 105K-T	T	70.0/16.2
R110	<u>7030016290</u>	S.RES RMC1/16S-222JTH (2.2 k)	B	22.1/49.0	C4	<u>4030020000</u>	S.CER C1005 JB 1A 105K-T	T	69.1/14.0
R111	<u>7030016110</u>	S.RES RMC1/16S-473JTH (47 k)	B	19.0/56.2	C8	<u>4030019990</u>	S.CER C1005 JB 1C 104K-T	T	65.5/11.1
R112	<u>7030016110</u>	S.RES RMC1/16S-473JTH (47 k)	B	19.8/41.5	Eqv.	<u>4030023010</u>	S.CER 0402B104K160CT		
R114	<u>7030016250</u>	S.RES RMC1/16S-220JTH (22)	T	33.4/53.1	Eqv.	<u>4030026220</u>	S.CER MG15B104K160CT		
R115	<u>7030015960</u>	S.RES RMC1/16S-472JTH (47 k)	B	78.0/24.2	C9	<u>4030022640</u>	S.CER 0402N101J500CT	T	86.3/16.5
R116	<u>7030015930</u>	S.RES RMC1/16S-471JTH (470)	B	88.3/10.8	Eqv.	<u>4030026140</u>	S.CER MG15N101J500CT		
R117	<u>7030015670</u>	S.RES RMC1/10-4R7JTP (4.7)	B	9.6/23.2	C10	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	10.6/34.3
R118	<u>7030016040</u>	S.RES RMC1/16S-224JTH (220 k)	B	86.2/11.9	Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
R119	<u>7030016570</u>	S.RES RMC1/16S-180JTH (18)	B	46.2/28.8	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R120	<u>7030016180</u>	S.RES RMC1/16S-680JTH (68)	B	46.7/30.0	C11	<u>4030019990</u>	S.CER C1005 JB 1C 104K-T	B	15.5/28.9
R121	<u>7030016050</u>	S.RES RMC1/16S-102JTH (1 k)	T	13.9/62.0	Eqv.	<u>4030023010</u>	S.CER 0402B104K160CT		
R122	<u>7030016410</u>	S.RES RMC1/16S-561JTH (560)	B	83.2/9.0	Eqv.	<u>4030026220</u>	S.CER MG15B104K160CT		
R124	<u>7030016570</u>	S.RES RMC1/16S-180JTH (18)	B	47.1/28.8	Eqv.	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	T	87.9/10.6
R125	<u>7030015920</u>	S.RES RMC1/16S-221JTH (220)	T	72.5/23.3	Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
R126	<u>7030016150</u>	S.RES RMC1/16S-100JTH (100)	B	77.8/18.3	Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
R127	<u>7030015900</u>	S.RES RMC1/16S-470JTH (47)	B	85.2/23.6	C13	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	T	61.2/12.9
R128	<u>7030015700</u>	S.RES RMC1/10-220JTP (22)	T	48.7/50.9	Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
R129	<u>7030015530</u>	S.RES RMC1/16-5R6JTP (5.6)	B	48.9/50.1	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R130	<u>7030015530</u>	S.RES RMC1/16-5R6JTP (5.6)	B	48.9/59.3	C14	<u>4030022560</u>	S.CER 0402N5R0B500CT	T	91.4/14.3
R131	<u>7030016300</u>	S.RES RMC1/16S-332JTH (3.3 k)	B	80.4/21.0	C15	<u>4030019560</u>	S.CER GRM21BB31C106KE15L	B	18.4/34.8
R132	<u>7030015700</u>	S.RES RMC1/10-220JTP (22)	T	48.7/58.6	C16	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	T	87.9/13.0
R133	<u>7030016180</u>	S.RES RMC1/16S-680JTH (68)	B	83.3/19.5	Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
R134	<u>7030016190</u>	S.RES RMC1/16S-273JTH (27 k)	T	50.0/60.6	Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
R135	<u>7030016190</u>	S.RES RMC1/16S-273JTH (27 k)	T	50.0/49.0	C17	<u>4030022570</u>	S.CER 0402N6R0C500CT	T	91.9/15.5
R136	<u>7030016030</u>	S.RES RMC1/16S-154JTH (150 k)	B	84.3/22.7	C18	<u>4030022880</u>	S.CER 0402N560J500CT	T	94.3/14.3
R137	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	84.3/21.1	C19	<u>4030016790</u>	S.CER C1005 JB 1E 103K-T	B	66.8/8.3
R138	<u>7030016140</u>	S.RES RMC1/16S-124JTH (120 k)	B	85.2/21.9	Eqv.	<u>4030023030</u>	S.CER 0402B103K250CT		
R139	<u>7030016000</u>	S.RES RMC1/16S-823JTH (82 k)	B	87.3/21.6	Eqv.	<u>4030026200</u>	S.CER MG15B103K250CT		
R144	<u>7030016300</u>	S.RES RMC1/16S-332JTH (3.3 k)	T	79.0/22.3	C21	<u>4030022630</u>	S.CER 0402N100C500CT	B	61.2/15.6
R145	<u>7030016110</u>	S.RES RMC1/16S-473JTH (47 k)	B	88.7/20.6	C22	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	T	53.3/5.3
R146	7520000241	S.POS PRF18B/C471QB5R8	T	66.0/45.4	Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
R147	<u>7030016070</u>	S.RES RMC1/16S-474JTH (470 k)	T	73.4/24.9	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R149	<u>7030016560</u>	S.RES RMC1/16SJPJTH	T	71.0/26.2	C23	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	68.3/5.3
R150	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	77.4/23.2	Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
R152	<u>7030016110</u>	S.RES RMC1/16S-473JTH (47 k)	B	92.2/20.6	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R153	<u>7030016430</u>	S.RES RMC1/16S-392JTH (3.9 k)	T	71.6/24.7	C24	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	55.8/5.3
R156	<u>7030012710</u>	S.RES ERA2AEB 273X (27 k)	T	80.1/32.7	Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
R157	<u>7030012160</u>	S.RES ERJM1W5F6M0U	T	71.1/66.8	C24	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	56.1/13.2
R159	<u>7030016110</u>	S.RES RMC1/16S-473JTH (47 k)	B	96.1/20.8	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R160	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	83.5/24.9	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R161	<u>7030015900</u>	S.RES RMC1/16S-470JTH (47)	B	97.9/23.6	C26	<u>4030022540</u>	S.CER 0402N3R0B500CT	T	94.6/15.5
R162	<u>7030016410</u>	S.RES RMC1/16S-561JTH (560)	B	100.1/22.4	C27	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	61.8/8.3
R163	<u>7030016050</u>	S.RES RMC1/16S-102JTH (1 k)	T	82.3/24.4	Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
R164	<u>7030015910</u>	S.RES RMC1/16S-101JTH (100)	B	101.3/20.5	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R165	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	T	83.2/23.7	C29	<u>4030016930</u>	S.CER C1005 JB 1A 104K-T	B	40.9/7.7
R166	<u>7030016740</u>	S.RES RMC1/16SK474DTH (470 k)	T	81.3/29.7	Eqv.	<u>4030022940</u>	S.CER 0402B104K100CT		
R167	<u>7030016770</u>	S.RES RMC1/16SK334DTH (330 k)	T	82.5/30.2	Eqv.	<u>4030026190</u>	S.CER MG15B104K100CT		
R169	<u>7030016040</u>	S.RES RMC1/16S-224JTH (220 k)	B	105.8/20.4	C30	<u>4030022980</u>	S.CER 0402B473K100CT	T	111.5/9.1
R170	<u>7030016740</u>	S.RES RMC1/16SK474DTH (470 k)	T	84.3/28.5	C31	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	65.8/5.3
R173	<u>7030016380</u>	S.RES RMC1/16S-183JTH (18 k)	B	106.3/21.6	Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
R174	<u>7030012700</u>	S.RES ERA2AEB 392X (3.9 k)	T	78.9/29.7	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R175	<u>7030012700</u>	S.RES ERA2AEB 392X (3.9 k)	T	83.4/27.6	C33	<u>4030017460</u>	S.CER C1005 JB 1H 102K-T	B	55.8/5.3
R176	<u>7030016560</u>	S.RES RMC1/16SJPJTH	T	85.5/29.7	Eqv.	<u>4030023090</u>	S.CER 0402B102K500CT		
R177	<u>7030016020</u>	S.RES RMC1/16S-104JTH (100 k)	B	105.1/22.6	Eqv.	<u>4030026210</u>	S.CER MG15B102K500CT		
R178	<u>7030016140</u>	S.RES RMC1							



The underlined parts have been updated from the addendum of the previous version, or from the original page.

**[MAIN UNIT]**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C156	4030017460	S.CER C1005 JB 1H 102K-T	B	13.3/42.7
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C157	4030017460	S.CER C1005 JB 1H 102K-T	B	85.2/25.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C159	4030022860	S.CER 0402N470J500CT	T	33.9/51.0
C160	4030022640	S.CER 0402N101J500CT	T	27.7/52.0
Eqv.	4030026140	S.CER MG15N101J500CT		
C161	4030017460	S.CER C1005 JB 1H 102K-T	T	25.1/50.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C162	4030019990	S.CER C1005 JB 1C 104K-T	B	88.6/14.6
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C163	4030017460	S.CER C1005 JB 1H 102K-T	T	33.9/51.9
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C164	4510010230	S.ELE 10 CE 1000 LX	T	12.6/23.5
C165	4030019560	S.CER GRM21B53C106KE15L	B	13.6/44.1
C166	4030017460	S.CER C1005 JB 1H 102K-T	B	87.1/10.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C167	4030026760	S.CER RF15N8R0C500CT	B	87.4/11.6
C170	4030019990	S.CER C1005 JB 1C 104K-T	B	7.9/22.2
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C171	4030017460	S.CER C1005 JB 1H 102K-T	B	46.7/30.9
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C172	4030017460	S.CER C1005 JB 1H 102K-T	T	36.9/66.9
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C174	4030016790	S.CER C1005 JB 1E 103K-T	B	86.3/15.4
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C175	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/11.0
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C177	4030017460	S.CER C1005 JB 1H 102K-T	B	14.6/48.5
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C178	4030017460	S.CER C1005 JB 1H 102K-T	T	13.1/51.5
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C179	4030017460	S.CER C1005 JB 1H 102K-T	T	37.9/62.1
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C182	4030023200	S.CER 0402B471K500CT	T	17.3/52.2
C184	4030017460	S.CER C1005 JB 1H 102K-T	T	17.3/53.1
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C187	4030017580	S.CER C1005 CH 1H 060C-T	B	84.3/15.3
C189	4030023760	S.CER 0603N680J500CT	B	40.5/52.1
C190	4030023760	S.CER 0603N680J500CT	B	40.5/57.2
C191	4030024550	S.CER 0402N3R5B500CT	B	80.4/23.3
C192	4030023900	S.CER 0603B152K500CT	B	45.6/53.9
C193	4030023900	S.CER 0603B152K500CT	B	45.6/55.5
C194	4030016790	S.CER C1005 JB 1E 103K-T	B	77.4/16.8
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C195	4030022520	S.CER 0402N1R0B500CT	B	79.8/18.9
C196	4030017460	S.CER C1005 JB 1H 102K-T	B	77.5/22.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C197	4030023820	S.CER 0603B104K250CT	T	48.7/48.1
Eqv.	4030026170	S.CER MG18B104K250CT		
C198	4030016790	S.CER C1005 JB 1E 103K-T	T	84.1/23.7
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C199	4030026590	S.CER RF15N180J500CT	B	79.5/21.0
C200	4030017460	S.CER C1005 JB 1H 102K-T	B	82.4/19.5
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C201	4030023490	S.CER 0603N121J500CT	B	48.9/52.5
C202	4030023490	S.CER 0603N121J500CT	B	48.9/56.9
C204	4030023820	S.CER 0603B104K250CT	T	48.6/61.4
Eqv.	4030026170	S.CER MG18B104K250CT		
C205	4030017460	S.CER C1005 JB 1H 102K-T	B	82.8/23.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C208	4030022220	S.CER GQM2195C2E390JB12D	B	74.0/43.7
C209	4030017380	S.CER C1005 CH 1H 050B-T	B	87.3/22.5
C210	4030017460	S.CER C1005 JB 1H 102K-T	T	51.2/48.6
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C211	4030019990	S.CER C1005 JB 1C 104K-T	T	77.8/22.0
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C213	4030022520	S.CER 0402N1R0B500CT	B	88.5/22.4
C216	4030019410	S.CER GRM31A7U2J471JW31D	T	75.4/61.7
C217	4030017460	S.CER C1005 JB 1H 102K-T	T	64.8/42.7
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C218	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/42.8
C219	4030018890	S.CER C1005 JB 0J 224K-T	T	72.5/24.9
C220	4030017460	S.CER C1005 JB 1H 102K-T	T	66.3/42.8
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C221	4030017460	S.CER C1005 JB 1H 102K-T	B	88.7/19.0
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C222	4030019410	S.CER GRM31A7U2J471JW31D	T	75.4/59.6
C223	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/44.5
C224	4030022920	S.CER 0402N820J500CT	T	89.4/22.4
C225	4510010010	S.ELE 25 CE 220 LX	B	81.0/66.9
C226	4030017460	S.CER C1005 JB 1H 102K-T	T	79.0/23.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C227	4030022620	S.CER 0402N0R5B500CT	B	90.6/22.9
C228	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/46.3
C229	4030016790	S.CER C1005 JB 1E 103K-T	B	89.8/13.6
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C230	4030017460	S.CER C1005 JB 1H 102K-T	T	76.9/22.0
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C232	4030016930	S.CER C1005 JB 1A 104K-T	B	91.8/18.1
Eqv.	4030022940	S.CER 0402B104K100CT		
Eqv.	4030026190	S.CER MG15B104K100CT		
C234	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/48.0
C236	4030022920	S.CER 0402N820J500CT	B	91.8/22.4
C237	4030022310	S.CER GQM2195C2E680JB12D	T	74.2/49.8
C238	4030022520	S.CER 0402N1R0B500CT	B	92.7/22.4
C239	4030022330	S.CER GQM2195C2E330JB12D	T	74.2/51.5
C240	4030017460	S.CER C1005 JB 1H 102K-T	T	77.0/29.7
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C242	4030022720	S.CER 0402N1R5B500CT	B	94.0/22.9
C243	4030017460	S.CER C1005 JB 1H 102K-T	T	68.2/22.1
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C247	4030017460	S.CER C1005 JB 1H 102K-T	B	95.6/18.5
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C249	4030022920	S.CER 0402N820J500CT	B	95.2/22.4
C250	4030017460	S.CER C1005 JB 1H 102K-T	B	96.1/22.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C251	4030016790	S.CER C1005 JB 1E 103K-T	B	100.4/20.5
Eqv.	4030023030	S.CER 0402B103K250CT		
Eqv.	4030026200	S.CER MG15B103K250CT		
C254	4030011210	S.CER GRM31M2C2H330JV01L (GRM42-6)	T	80.2/47.6
C255	4030017460	S.CER C1005 JB 1H 102K-T	T	81.6/31.8
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C256	4030017460	S.CER C1005 JB 1H 102K-T	B	102.2/20.5
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C257	4030017460	S.CER C1005 JB 1H 102K-T	T	81.3/30.6
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C258	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/22.0
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C260	4030011070	S.CER GRM31M2C2H5R0CY21L (GRM42-6)	T	95.7/49.8
C261	4030020000	S.CER C1005 JB 1A 105K-T	B	97.9/22.0
C262	4030017460	S.CER C1005 JB 1H 102K-T	B	106.7/20.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C263	4030017460	S.CER C1005 JB 1H 102K-T	T	82.5/27.6
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C265	4030011070	S.CER GRM31M2C2H5R0CY21L (GRM42-6)	T	95.7/47.7
C266	4030011070	S.CER GRM31M2C2H5R0CY21L (GRM42-6)	T	95.7/45.6
C267	4030017460	S.CER C1005 JB 1H 102K-T	T	80.1/30.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C269	4030019990	S.CER C1005 JB 1C 104K-T	T	82.3/26.0
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C270	4030022680	S.CER 0402N150J500CT	B	106.3/23.4
C271	4030017460	S.CER C1005 JB 1H 102K-T	T	78.9/30.6
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C272	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6)	T	92.1/43.5
C274	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6)	T	92.1/41.4
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	86.4/27.9
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C276	4030017460	S.CER C1005 JB 1H 102K-T	B	112.0/19.5
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C277	4030017460	S.CER C1005 JB 1H 102K-T	T	84.7/26.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C278	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6)	T	92.1/39.3
C279	4030022920	S.CER 0402N820J500CT	B	110.8/21.5
C280	4030017460	S.CER C1005 JB 1H 102K-T	T	89.0/37.7
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C281	4030018940	S.CER GRM31A7U2J331JW31D	T	98.1/35.9
C282	4030018940	S.CER GRM31A7U2J331JW31D	T	96.0/35.9

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REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C283	4030018940	S.CER GRM31A7U2J331JW31D	T	93.7/35.9
C284	4030017460	S.CER C1005 JB 1H 102K-T	T	68.7/24.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C285	4030019990	S.CER C1005 JB 1C 104K-T	T	86.4/28.8
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C287	4030017380	S.CER C1005 CH 1H 050B-T	B	110.8/23.1
C288	4030019420	S.CER GRM31A7U2J102JW31D	T	104.3/32.0
C291	4030011170	S.CER GRM31M2C2H180JV01L (GRM42-6)	B	104.3/34.6
C292	4030017460	S.CER C1005 JB 1H 102K-T	B	111.2/26.3
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C293	<u>4030022720</u>	S.CER 0402N1R5B500CT	T	110.2/23.1
C295	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6)	B	109.1/41.9
C296	<u>4030023480</u>	S.CER 0603N120J500CT	B	104.7/41.5
C298	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6)	B	104.3/39.8
C299	4030017460	S.CER C1005 JB 1H 102K-T	B	101.9/42.4
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C300	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6)	B	100.3/51.6
C302	4030026590	S.CER RF15N180J500CT	T	108.8/26.9
C303	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6)	B	103.4/47.8
C304	<u>4030023480</u>	S.CER 0603N120J500CT	B	99.4/49.4
C305	4030011050	S.CER GRM31M3C2H3R0CY21L (GRM42-6)	T	98.7/29.9
C306	4030011210	S.CER GRM31M2C2H330JV01L (GRM42-6)	B	100.3/56.9
C307	4030011160	S.CER GRM31M2C2H150JV01L (GRM42-6)	B	104.2/63.1
C308	<u>4030023140</u>	S.CER 0402B271K500CT	B	98.6/4.1
C309	4030017460	S.CER C1005 JB 1H 102K-T	T	97.9/1.2
Eqv.	4030023090	S.CER 0402B102K500CT		
Eqv.	4030026210	S.CER MG15B102K500CT		
C310	4030019990	S.CER C1005 JB 1C 104K-T	T	108.0/8.8
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C311	4030019990	S.CER C1005 JB 1C 104K-T	T	99.7/5.6
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C312	4030019990	S.CER C1005 JB 1C 104K-T	T	100.0/11.8
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C313	4030019990	S.CER C1005 JB 1C 104K-T	T	111.5/10.0
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C314	<u>4030023490</u>	S.CER 0603N121J500CT	B	48.9/48.9
C315	<u>4030023490</u>	S.CER 0603N121J500CT	B	48.9/60.5
C319	4510010010	S.ELE 25 CE 220 LX	T	22.4/16.6
C321	4030020000	S.CER C1005 JB 1A 105K-T	T	23.2/52.4
C322	4030019990	S.CER C1005 JB 1C 104K-T	B	14.6/16.5
Eqv.	4030023010	S.CER 0402B104K160CT		
Eqv.	4030026220	S.CER MG15B104K160CT		
C323	<u>4030011240</u>	S.CER GRM31M2C2H470JV01L (GRM42-6)	T	86.3/45.6
C332	4550007090	S.TAN TEESVA 1A 226M8R	T	68.5/10.7
Eqv.	4550008160	S.TAN F931A226MAA		
Eqv.	4550009110	S.TAN 267E1002226MR533		
C333	<u>4030023070</u>	S.CER 0402B223K250CT	B	25.6/3.6
C334	4030019460	S.CER C1608 JB 0J 106M-T	T	71.7/16.4
J1	6510028390	S.CON 04-6294-036-000-800	T	9.0/4.3
J2	6510014961	S.CON B2B-ZR-SM4-TF (LF) (SN)	T	8.9/56.5
J3	6510025940	CON PJ-3047S		
W1	8900011882	CAB OPC-1210A-1 (P0.5N36L70)		
W2	<u>7030014230</u>	JUM RJ20SQOHM		
W6	<u>8900022720</u>	CAB OPC-2432		
EP3	6910018460	S.BEA MMZ1005Y102C-T	T	24.8/51.5
EP4	6910014730	S.BEA MPZ2012S331A-T	T	34.7/64.6
EP5	6910020610	S.BEA BLM15BD102SN1D	B	45.7/26.3

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.

# SECTION 7 MECHANICAL PARTS

The underlined parts have been updated from the addendum of the previous version, or from the original page.

### [CHASSIS UNIT]

REF NO.	PART NO.	DESCRIPTION	QTY.
W1	8600036881	SP CABLE-1	1
J1	6510004882	MR-DSE-01-2	1
SP1	2510001161	057P0802-1	1
MP1	8010022234	3251 CHASSIS-4	1
MP2	8110010134	3251 COVER ASSEMBLY-4	1
MP3	8930083860	3251 SP RUBBER	1
MP4	8930062130	THERMAL SHEET (AP)TC200HS-1.4 (15X23)	1
MP6	8810008661	PHBT M3 × 8 NI-ZC3	11
MP7	8810009611	FLAT M2.6 × 6 ZK3	8
MP8	8810005161	CAPBOLT M3 × 20 ZK3 BLACK	2
MP9	8810009050	SET SCREW H M3 × 10 NI	4
MP11	8310069140	2979 CAUTION LABEL	1
MP13	8310083951	3254 H-LABEL-1	1
MP14	8930095680	HIMELON SHEET (DV)	1
MP15	8930105180	3251 JACK SHEET	1
MP16	8930105360	SPONGE (RN)	1
MP17	8930105170	3251 THERMAL SHEET TC-45TAG (9.5X13)	1

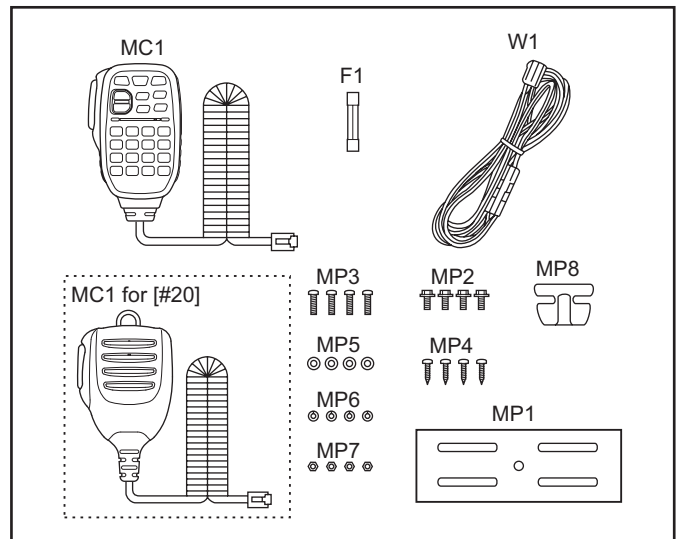
### [SUPPLIED ACCESSORIES]

REF NO.	PART NO.	DESCRIPTION	QTY.
F1	5210001560	FGBO 125V 20A PBF	[#05] 1
	5210001560	FGBO 125V 20A PBF	[#06] 1
	5210001560	FGBO 125V 20A PBF	[#10] 1
	5210001560	FGBO 125V 20A PBF	[#13] 1
	5210001560	FGBO 125V 20A PBF	[#17] 1
	5210000080	FGB 20A (FGBO 125V)	[#20] 1
MC1	-	HM-133V†	[#05] 1
	-	HM-133V†	[#06] 1
	-	HM-133V†	[#10] 1
	-	HM-133V†	[#13] 1
	-	HM-133V†	[#17] 1
W1	-	HM-154†	[#20] 1
	-	OPC-1132A†	1
MP1	8010019262	2633 MOBILE BRACKET-2	1
MP2	8820000530	FLANGE BOLT M4 × 8 NI	4
MP3	8810000471	PH M5 X12 (+-) ZC3	4
MP4	8810000951	PHA M5 × 16 ZC3	4
MP5	8850000150	FLAT WASHER M5 NI BS	4
MP6	8850000391	S-WASHER M5 ZC3	4
MP7	8830000121	NUT M5 ZC3	4
MP8	8930007301	MIC HANGER-1	1

### [LOGIC UNIT]

REF NO.	PART NO.	DESCRIPTION	QTY.
J1	6450002210	3017-8821	1
J3*	6510028390	04-6294-036-000-800+	1
DS1	5030004190	L5-1064TRR	1
S1*	2260002740	LS8J2M-T	1
S2*	2260002740	LS8J2M-T	1
S3*	2260002740	LS8J2M-T	1
S4*	2260002740	LS8J2M-T	1
S5*	2260002740	LS8J2M-T	1
S6*	2260002740	LS8J2M-T	1
S7*	2260002740	LS8J2M-T	1
S8*	2260002740	LS8J2M-T	1
S9	2250000790	EC12E24204A9	1
S10*	2260002740	LS8J2M-T	1
EP9	8930084270	SRCN-3251-SP-N-W SHJ	1
MP1	8210027220	3251 FRONT PANEL	1
MP2	8210027230	3251 REFLECTOR	1
MP3	8930083840	3251 2-KEY	1
MP4	8930083850	3251 7-KEY	1
MP5	8930084141	3251 LCD FILTER-1	1
MP6	8810008761	PHBT M2 × 8 NI-ZC3	4
MP7	8930083870	3251 LCD PLATE	1
MP8	8610014400	KNOB N-400	1
MP9	8610014410	KNOB N-401	2
MP11	8930057890	NONWOVEN SHEET CF	1

\*Sold as an option



### [MAIN UNIT]

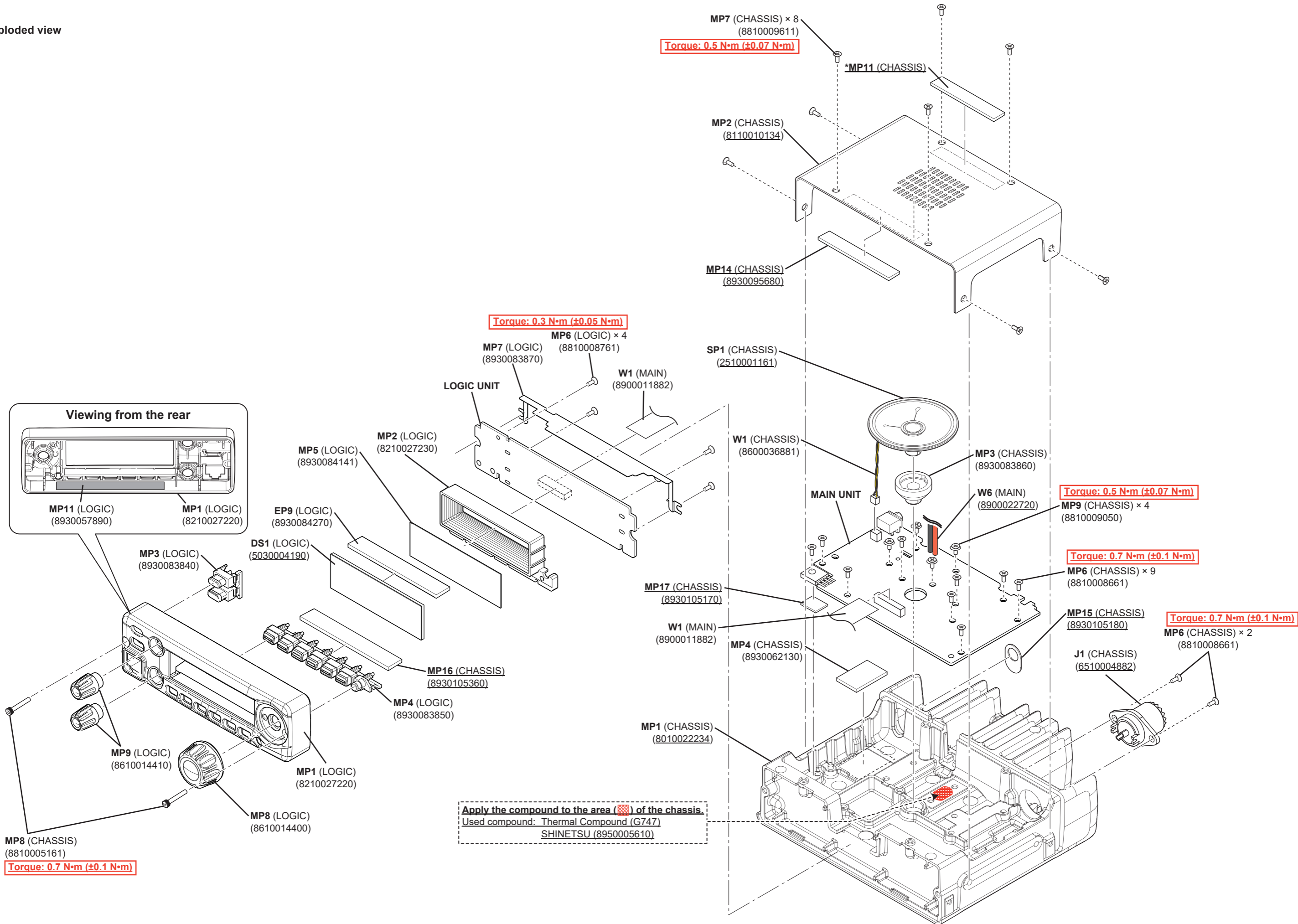
REF NO.	PART NO.	DESCRIPTION	QTY.
J1*	6510028390	04-6294-036-000-800+	1
J2*	6510014961	B2B-ZR-SM4-TF (LF) (SN)	1
J3	6510025940	PJ-3047S	1
W1	8900011882	OPC-1210A-1 (P0.5N36L70)	1
W2	7030014230	RJ20SOOHM	1
W6	8900022720	OPC-2432	1
MP2	8510019351	3179 VCO COVER-1	1
MP3*	8410002720	3251 PA HEATSINK	1
MP5*	8510019341	3179 VCO CASE-1	1

\*: 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

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• Exploded view

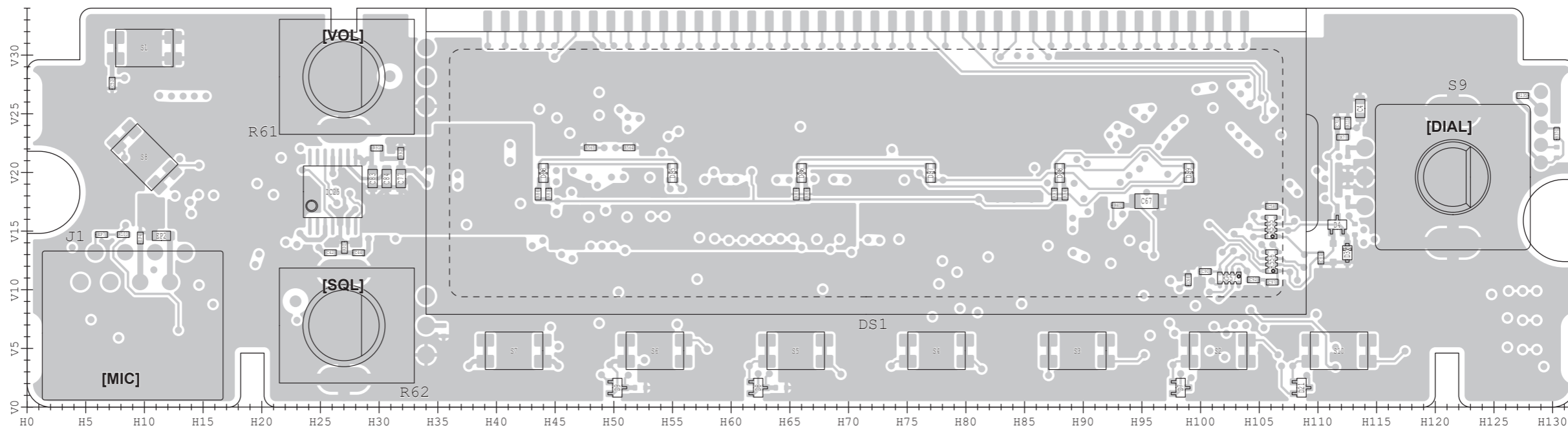


The underlined parts have been updated from the addendum of the previous version, or from the original page.

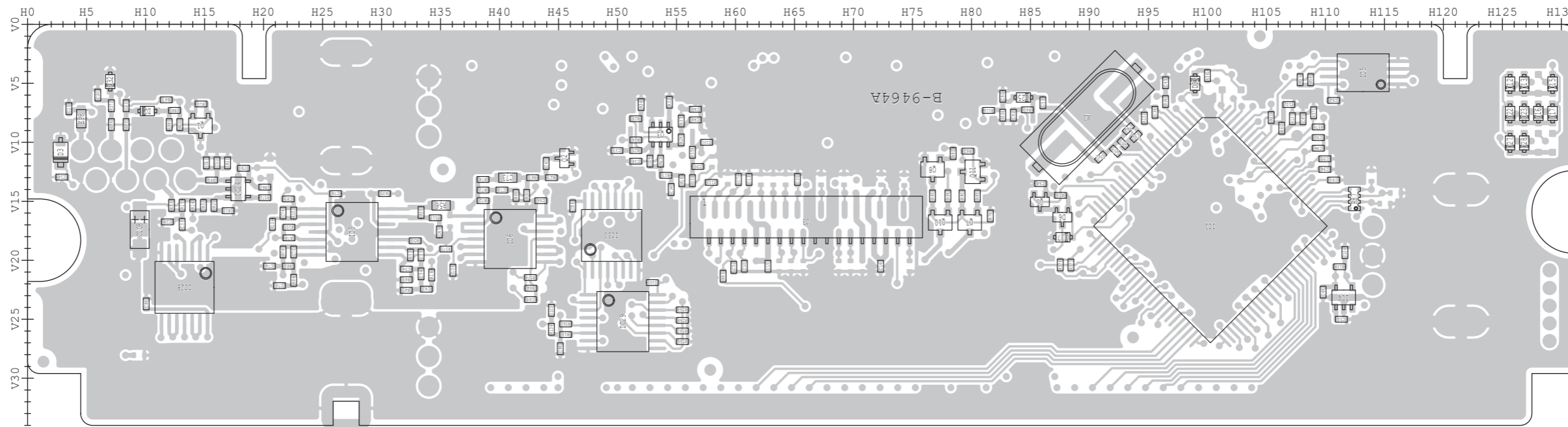
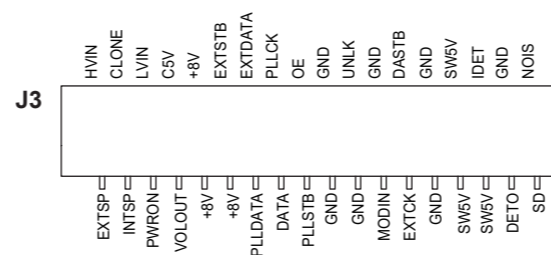
# SECTION 8 BOARD LAYOUT

• LOGIC UNIT (B-9464A/B-9500)  
TOP VIEW

**NOTE:** Both the B-9464A and the B-9500 PCBs have the same circuits and layout.  
The only difference is their PCB number.



**BOTTOM VIEW**

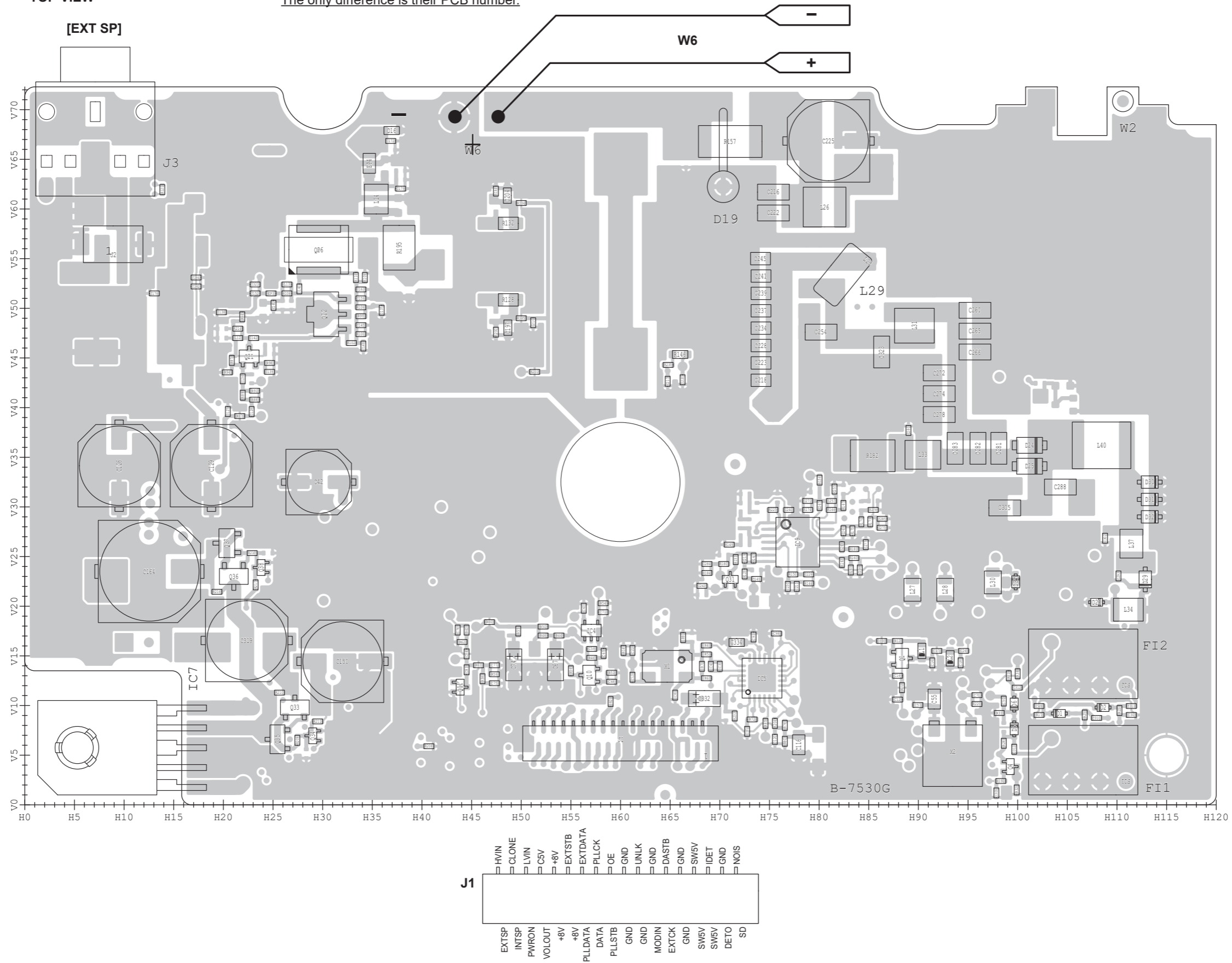


**NOTE:** Some parts may not be mounted on the PCB, depending on the transceiver version.  
Refer to the PARTS LIST for the mounted parts.  
The scale along the PCB indicates the corresponding "H/V LOCATION" on the parts list.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• MAIN UNIT (B-7530G/B-9493)  
TOP VIEW

**NOTE:** Both the B-7530G and the B-9493 PCBs have the same circuits and layout.  
The only difference is their PCB number.

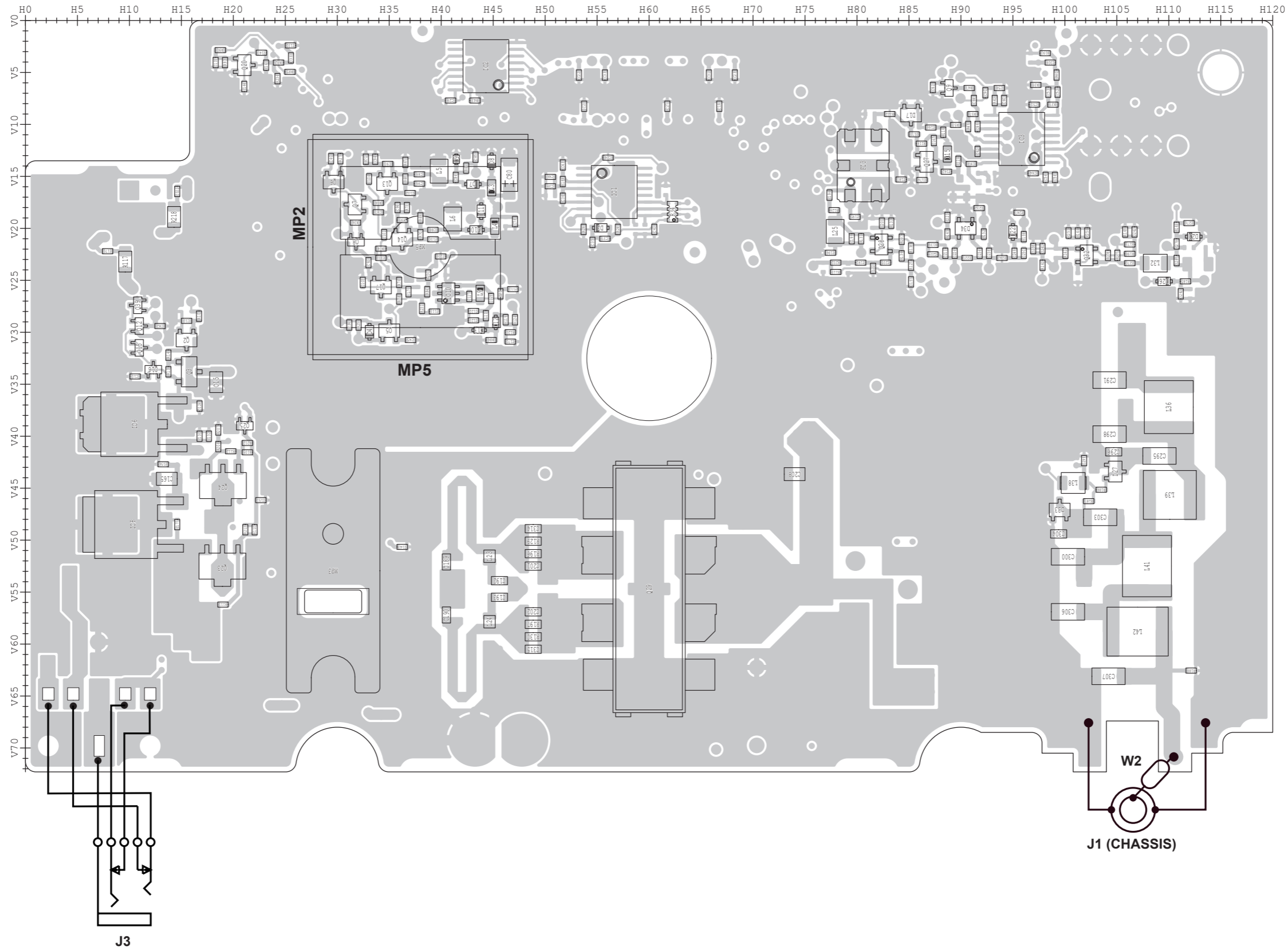


**NOTE:** Some parts may not be mounted on the PCB, depending on the transceiver version.  
Refer to the PARTS LIST for the mounted parts.  
The scale along the PCB indicates the corresponding "H/V LOCATION" on the parts list.

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• MAIN UNIT (B-7530G/B-9493)  
BOTTOM VIEW

**NOTE:** Both the B-7530G and the B-9493 PCBs have the same circuits and layout.  
The only difference is their PCB number.



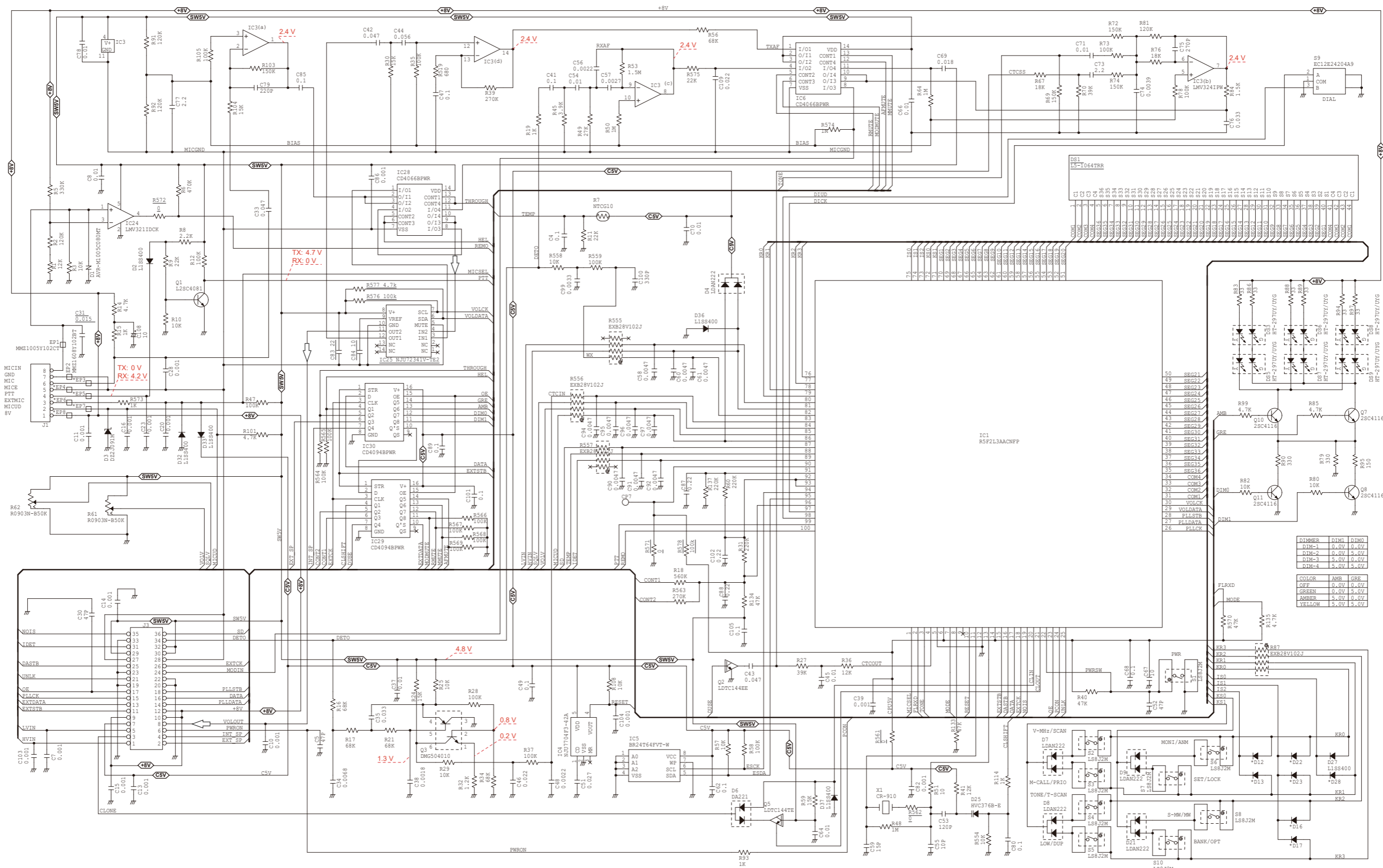
**NOTE:** Some parts may not be mounted on the PCB, depending on the transceiver version.  
Refer to the PARTS LIST for the mounted parts.  
The scale along the PCB indicates the corresponding "H/V LOCATION" on the parts list.

# SECTION 10

# VOLTAGE DIAGRAM

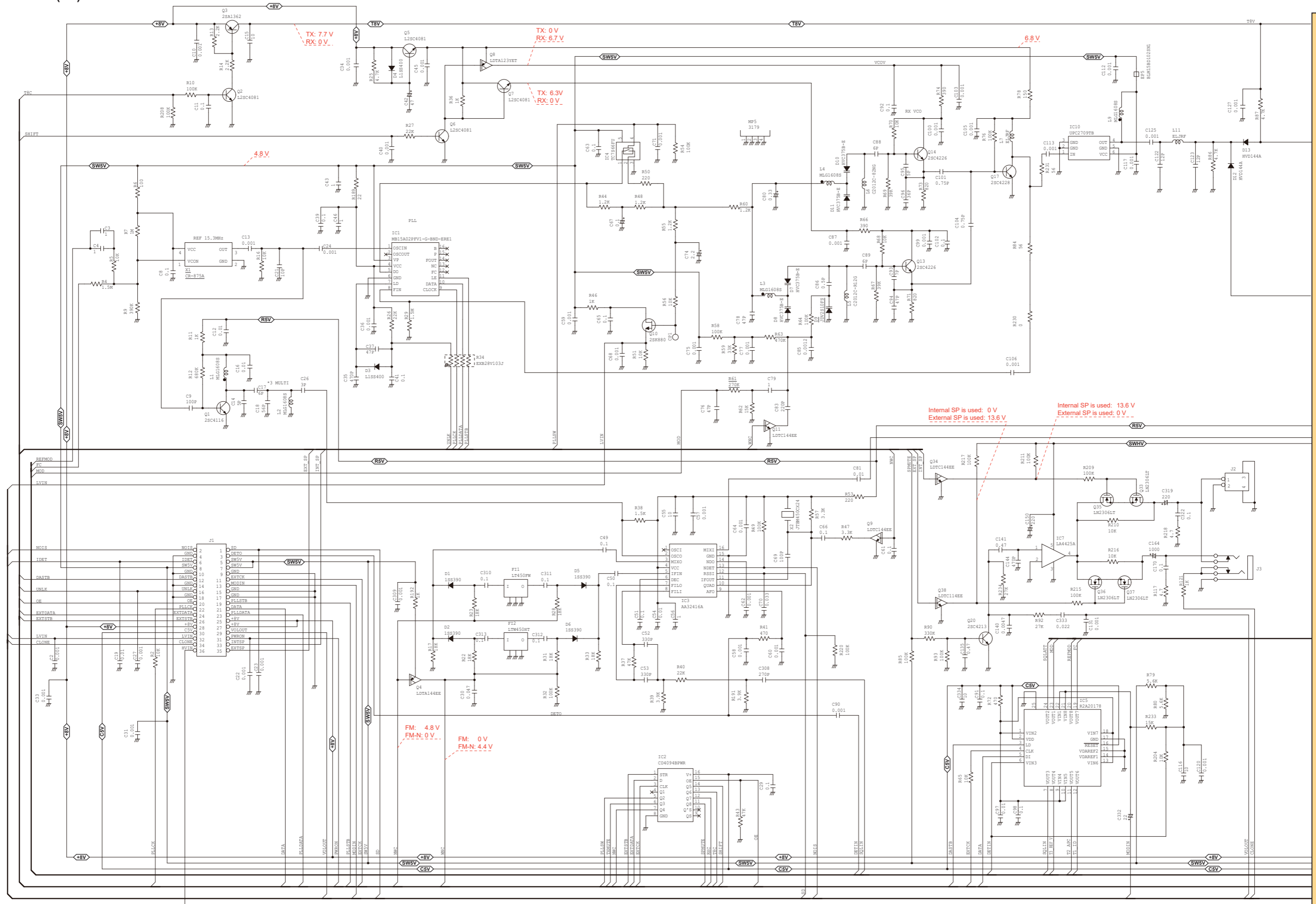
The underlined parts have been updated from the addendum of the previous version, or from the original page.

## • LOGIC UNIT



The underlined parts have been updated from the addendum of the previous version, or from the original page.

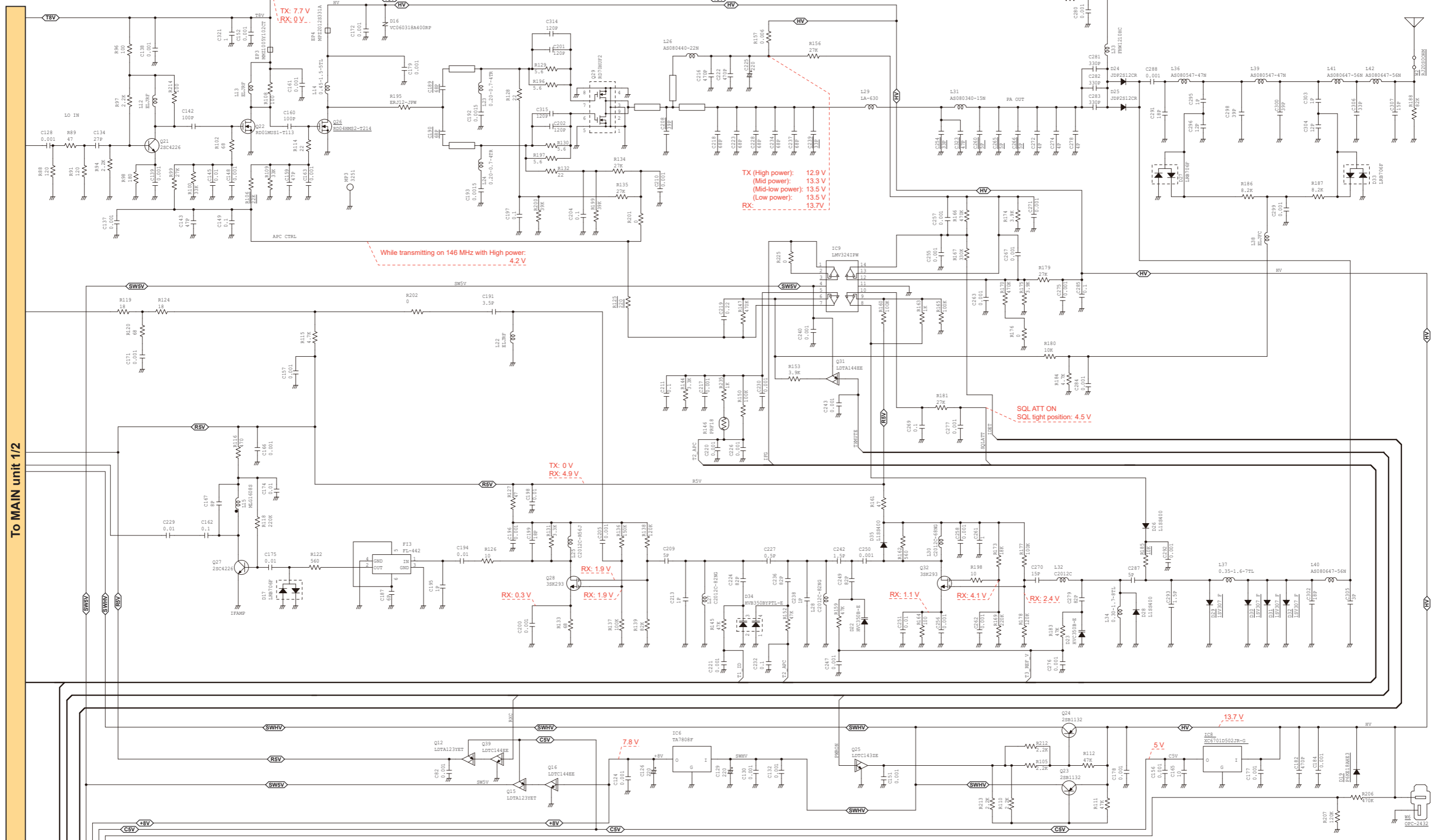
• MAIN UNIT (1/2)



To MAIN unit 2/2

The underlined parts have been updated from the addendum of the previous version, or from the original page.

• MAIN UNIT (2/2)



## IC-2300H

### CONTENTS

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VOLTAGE DIAGRAM .....	6

### [VERSION LIST]

MODEL	VERSION NUMBER	VERSION	TX POWER	MICROPHONE
IC-2300H	#04	TPE	25W	HM-133V
	#05	USA	65W	
	#06	KOR	50W	
	#08	CHN	65W	-
	#10	EXP-01		HM-133V
	#11	EXP-02		HM-154
	#20	EXP-03		HM-154
#12	SAU	23W	HM-133V	
IC-2300-T	#09	THA-01		10W
	#19	THA-02		

**5-3 TRANSMIT ADJUSTMENTS**

- 1) Select an adjustment item using [BANK] or [V/MHz].
- 2) Set or modify the adjustment value as specified using [DIAL], and then push [S.MW].

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
<b>TX OUTPUT POWER</b> (High power) -Band low- ----- -Band center- ----- -Band high- ----- (Mid power) -Band low- ----- -Band center- ----- -Band high- ----- (Mid-Low power) -Band low- ----- -Band center- ----- -Band high- ----- (Low power) -Band low- ----- -Band center- ----- -Band high-	1	<b>NOTE:</b> Rotating [DIAL] in the TX adjustment mode without actually transmitting will result in an inaccurate adjustment.		
		• Transmitting	1) Connect an RF power meter to the antenna connector. 2) While transmitting, adjust the frequency using [DIAL], and then push [S.MW] to store the adjustment value.	(See the table below.)
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
12				
<b>FM DEVIATION</b> -Band low- ----- -Band center- ----- -Band high-	1	• Transmitting 1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it to; Detector : +Peak HPF : OFF LPF : 20 kHz 2) Connect an audio generator to the JIG cable, and set it to; Frequency : 1 kHz Level : 20 mVrms (80 mVrms*) 3) While transmitting, adjust the deviation using [DIAL], and then push [S.MW] to store the adjustment value.	$[dE]$	±4.2 kHz ± 0.1 kHz
2				
3				
<b>MODULATION BALANCE</b> -Band low- ----- -Band center- ----- -Band high-	1	• Transmitting 1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it to; Detector : +Peak HPF : OFF LPF : 20 kHz 2) While transmitting, adjust the deviation using [DIAL], and then push [S.MW] to store the adjustment value.	$[dB]$	±1.55 kHz ± 0.05 kHz
2				
3				
<b>TONES DEVIATION</b> ----- CTCSS ----- DTCS ----- DTMF ----- EUR	1	• Transmitting 1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it to; Detector : +Peak HPF : OFF LPF : 20 kHz 2) While transmitting, adjust the deviation using [DIAL], and then push [S.MW] to store the adjustment value.	$[dC]$	±0.75 kHz ± 0.05 kHz
2			$[dd]$	
3			$[dF]$	
4			$[dU]$	
5				

Power level	[USA], [CHN], [EXP-01/02/03]	[TPE], [SAU]	[KOR]	[THA-01/02]
High	Band high: 59–61 W		51–53 W	11–13 W
	Band center: 65–67 W			
	Band low: 54–56 W			
Mid	24–26 W	21–23 W	25–26 W	4–6 W
Mid-Low	9–11 W			4–6 W
Low	4–6 W			

# SECTION 7 MECHANICAL PARTS

## [CHASSIS PARTS]

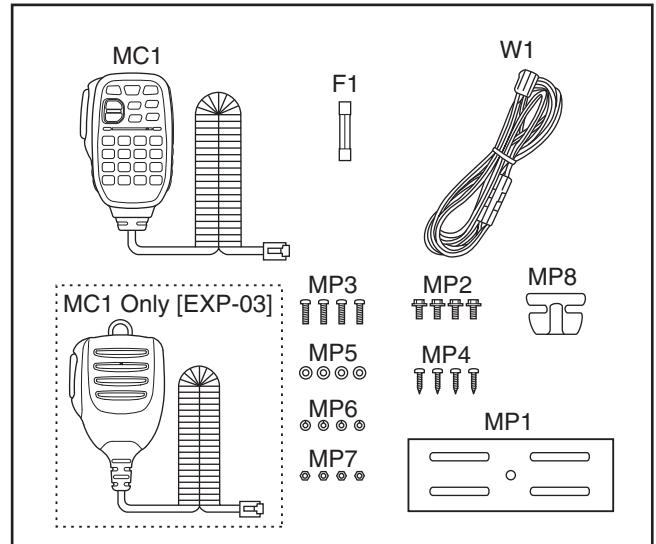
REF NO.	ORDER NO.	DESCRIPTION	QTY.
W1	8600036881	SP CABLE-1 (FX2493 P01LO)<PHL>	1
J1	6510004881	MR-DSE-01-1 <GA>	1
SP1	2510001160	057P0802	1
MP1	8010022230	3251 CHASSIS <STM>	1
MP2	8110010130	3251 COVER ASSEMBLY Y2160	1
MP3	8930083860	3251 SP RUBBER <KRI>	1
MP4	8930062130	THERMAL SHEET (AP)TC200HS-1.4 (15X23)	1
MP6	8810008661	PHBT M3 X 8 NI-ZC3	11
MP7	8810009611	FLAT M2.6X 6 ZK3	8
MP8	8810005161	CAPBOLT M3 X20 ZK3BLACK	2
MP9	8810009050	SET SCREWH M3 X10 NI	4

## [LOGIC UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6450002210	3017-8821 <KIN>	1
J3*	6510028390	04-6294-036-000-800	1
DS1	5030003530	L1-1207TVM-1 <TES>	1
S1*	2260002740	LS8J2M-T	1
S2*	2260002740	LS8J2M-T	1
S3*	2260002740	LS8J2M-T	1
S4*	2260002740	LS8J2M-T	1
S5*	2260002740	LS8J2M-T	1
S6*	2260002740	LS8J2M-T	1
S7*	2260002740	LS8J2M-T	1
S8*	2260002740	LS8J2M-T	1
S9	2250000790	EC12E24204A9	1
S10*	2260002740	LS8J2M-T	1
EP9	8930084270	SRCN-3251-SP-N-W SHJ	1
MP1	8210027220	3251 FRONT PANEL	[TPE] 1
	8210027220	3251 FRONT PANEL	[USA] 1
	8210027220	3251 FRONT PANEL	[KOR] 1
	8210027220	3251 FRONT PANEL	[CHN] 1
	8210029150	3251 FRONT PANEL (A)	[THA-01] 1
	8210027220	3251 FRONT PANEL	[EXP-01] 1
	8210027220	3251 FRONT PANEL	[EXP-02] 1
	8210027220	3251 FRONT PANEL	[SAU] 1
	8210029150	3251 FRONT PANEL (A)	[THA-02] 1
	8210027220	3251 FRONT PANEL	[EXP-03] 1
MP2	8210027230	3251 REFLECTOR	1
MP3	8930083840	3251 2-KEY	1
MP4	8930083850	3251 7-KEY	1
MP5	8930084140	3251 LCD FILTER	1
MP6	8810008761	PHBT M2 X 8 NI-ZC3	4
MP7	8930083870	3251 LCD PLATE	1
MP8	8610014400	KNOB N-400	1
MP9	8610014410	KNOB N-401	2
MP11	8930057890	THERMAL SHEET CF	1

## [ACCESSORIES]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MC1	(Optional)	HM-133V	[TPE] 1
	(Optional)	HM-133V	[USA] 1
	(Optional)	HM-133V	[KOR] 1
	(Optional)	HM-133V	[THA-01] 1
	(Optional)	HM-133V	[EXP-01] 1
	(Optional)	HM-133V	[EXP-02] 1
	(Optional)	HM-133V	[SAU] 1
	(Optional)	HM-133V	[THA-02] 1
F1	5210000080	FGB 20A (FGB0 125V)	1
	(Optional)	OPC-1132A	1
W1	8010019260	2633 MOBILE BRACKET	1
	8820000530	FLANGE BOLT M4 X 8 NI	4
	8810000471	PH M5 X12 ZC3	4
	8810000951	PHA M5 X16 ZC3	4
	8850000150	FLAT WASHER M 5 NI BS	4
	8850000391	S-WASHER M5 ZC3	4
	8830000121	NUT M 5 ZC3	4
	8930007300	MIC HANGER	Only [USA] 1



## [MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510028390	04-6294-036-000-800+	1
J2*	6510014961	B2B-ZR-SM4-TF (LF) (SN)	1
J3	6510025940	PJ-3047S <XIN>	1
W1	8900011882	OPC-1210A-1 (P0.5N36L70)	1
W2	7030012290	RDS2TOR0	1
W6	8900015130	OPC-1131A	1
MP2	8510019350	3179 VCO COVER Y1143	1
MP3*	8410002720	3251 PA HEATSINK	1
MP5*	8510019340	3179 VCO CASE Y1142	1

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

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



[LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C16	4030017460	S.CER C1005 JB 1H 102K-T	B	2.9/13.0
C20	4030017460	S.CER C1005 JB 1H 102K-T	B	6.0/6.0
C23	4030017460	S.CER C1005 JB 1H 102K-T	B	8.4/6.9
C28	4030017460	S.CER C1005 JB 1H 102K-T	B	11.9/16.8
C30	4030017420	S.CER C1005 CH 1H 470J-T	B	65.3/13.2
C31	4030017420	S.CER C1005 CH 1H 470J-T	B	16.1/11.8
C33	4030013960	S.CER C1005 JB 1C 473K-T	B	13.1/17.0
C34	4030017790	S.CER C1005 JB 1H 682K-T	B	54.6/14.0
C35	4030017040	S.CER C1005 JB 1A 333K-T	B	52.8/11.6
C37	4030016790	S.CER C1005 JB 1E 103K-T	B	50.0/10.7
C38	4030018080	S.CER C1005 JB 1H 182K-T	B	51.6/11.6
C39	4030017460	S.CER C1005 JB 1H 102K-T	B	95.6/7.5
C41	4030016930	S.CER C1005 JB 1A 104K-T	B	33.8/22.5
C42	4030016950	S.CER C1005 JB 1A 473K-T	T	25.9/13.2
C43	4030016950	S.CER C1005 JB 1A 473K-T	B	44.0/11.8
C44	4030018390	S.CER C1005 JB 1A 563K-T	T	28.3/13.2
C45	4030016790	S.CER C1005 JB 1E 103K-T	B	96.5/5.0
C46	4030016970	S.CER C1005 JB 1E 223K-T	B	56.6/8.1
C47	4030016930	S.CER C1005 JB 1A 104K-T	B	34.9/17.6
C48	4030017760	S.CER C1005 JB 1H 222K-T	B	56.6/7.2
C49	4030016930	S.CER C1005 JB 1A 104K-T	B	109.8/22.7
C51	4030017030	S.CER C1005 JB 1A 273K-T	B	111.4/25.0
C52	4030017420	S.CER C1005 CH 1H 470J-T	T	7.3/27.6
C53	4030017690	S.CER C1005 CH 1H 121J-T	B	86.1/6.7
C54	4030016790	S.CER C1005 JB 1E 103K-T	B	33.4/21.2
C55	4030017620	S.CER C1005 CH 1H 100C-T	B	92.9/10.1
C56	4030017760	S.CER C1005 JB 1H 222K-T	B	32.1/20.8
C57	4030018110	S.CER C1005 JB 1H 272K-T	B	33.4/19.6
C58	4030017780	S.CER C1005 JB 1H 472K-T	T	106.1/17.1
C59	4030017640	S.CER C1005 CH 1H 150J-T	B	94.0/9.5
C60	4030017780	S.CER C1005 JB 1H 472K-T	B	110.7/13.2
C61	4030017780	S.CER C1005 JB 1H 472K-T	T	110.3/12.7
C62	4030016930	S.CER C1005 JB 1A 104K-T	B	110.7/6.5
C64	4030016790	S.CER C1005 JB 1E 103K-T	B	85.9/13.5
C66	4030016790	S.CER C1005 JB 1E 103K-T	B	43.5/15.0
C67	4030019560	S.CER GRM21BB31C106KE15L	T	95.4/17.6
C68	4030016930	S.CER C1005 JB 1A 104K-T	T	99.0/10.9
C69	4030016960	S.CER C1005 JB 1E 183K-T	B	42.6/23.3
C70	4030016790	S.CER C1005 JB 1E 103K-T	T	111.7/24.2
C71	4030016790	S.CER C1005 JB 1E 103K-T	B	40.2/14.1
C73	4030019620	S.CER GRM188B31C225KE14D	B	40.7/13.0
C74	4030018920	S.CER C1005 JB 1H 392K-T	B	20.5/20.5
C75	4030017450	S.CER C1005 JB 1H 271K-T	B	22.6/19.3
C76	4030017040	S.CER C1005 JB 1A 333K-T	B	21.4/22.2
C77	4030019620	S.CER GRM188B31C225KE14D	T	31.3/20.0
C78	4030016790	S.CER C1005 JB 1E 103K-T	B	26.1/14.4
C79	4030017440	S.CER C1005 CH 1H 221J-T	B	21.7/16.0
C80	4030019990	S.CER C1005 JB 1C 104K-T	B	82.7/6.1
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	83.6/7.7
C83	4030016930	S.CER C1005 JB 1A 104K-T	T	29.4/19.5
C85	4030019990	S.CER C1005 JB 1C 104K-T	B	22.1/14.8
C86	4030017460	S.CER C1005 JB 1H 102K-T	B	10.1/23.7
C87	4030018890	S.CER C1005 JB 0J 224K-T	B	108.1/8.0
C88	4030018890	S.CER C1005 JB 0J 224K-T	B	45.2/27.5
C89	4030016930	S.CER C1005 JB 1A 104K-T	B	46.2/15.4
C90	4030017780	S.CER C1005 JB 1H 472K-T	T	100.4/11.6
C91	4030017780	S.CER C1005 JB 1H 472K-T	B	109.4/9.6
C92	4030017780	S.CER C1005 JB 1H 472K-T	T	104.5/10.9
C94	4030017780	S.CER C1005 JB 1H 472K-T	B	110.0/12.3
C95	4030017780	S.CER C1005 JB 1H 472K-T	B	110.0/11.4
C96	4030017780	S.CER C1005 JB 1H 472K-T	B	109.4/10.5
C97	4030017780	S.CER C1005 JB 1H 472K-T	T	106.1/10.7
C99	4030017770	S.CER C1005 JB 1H 332K-T	B	56.8/12.1
C100	4030017720	S.CER C1005 JB 1H 331K-T	B	57.6/10.0
C101	4030016930	S.CER C1005 JB 1A 104K-T	B	53.0/21.9
C102	4030018890	S.CER C1005 JB 0J 224K-T	B	106.9/6.8
C103	4030017460	S.CER C1005 JB 1H 102K-T	B	58.0/13.4
C104	4030017460	S.CER C1005 JB 1H 102K-T	B	111.7/19.4
C105	4030016930	S.CER C1005 JB 1A 104K-T	B	44.4/24.3
C108	4550007080	S.TAN TEESVA 1C 106M8R	B	9.5/17.4
Eqv.	4550008220	S.TAN F931C106MAA		
C109	4030016970	S.CER C1005 JB 1E 223K-T	B	36.1/20.9
J1	6450002210	CON 3017-8821 <KIN>		
J3	6510028390	S.CON 04-6294-036-000-800	B	66.0/16.9
DS1	5030003530	LCD L1-1207TVM-1 <TES>		
DS3	5040003470	S.LED HT-297UY/YUG <KOU>	T	44.0/20.0
DS5	5040003470	S.LED HT-297UY/YUG <KOU>	T	55.0/20.0
DS6	5040003470	S.LED HT-297UY/YUG <KOU>	T	66.0/20.0
DS7	5040003470	S.LED HT-297UY/YUG <KOU>	T	77.0/20.0
DS8	5040003470	S.LED HT-297UY/YUG <KOU>	T	88.0/20.0
DS9	5040003470	S.LED HT-297UY/YUG <KOU>	T	99.0/20.0
S1	2260002740	S.SWI LS8J2M-T	T	10.0/30.6
S2	2260002740	S.SWI LS8J2M-T	T	101.5/4.8
S3	2260002740	S.SWI LS8J2M-T	T	89.5/4.8
S4	2260002740	S.SWI LS8J2M-T	T	77.5/4.8
S5	2260002740	S.SWI LS8J2M-T	T	65.5/4.8
S6	2260002740	S.SWI LS8J2M-T	T	53.5/4.8
S7	2260002740	S.SWI LS8J2M-T	T	41.5/4.8
S8	2260002740	S.SWI LS8J2M-T	T	10.0/21.3
S9	2250000790	ENC EC12E24204A9		
S10	2260002740	S.SWI LS8J2M-T	T	111.8/4.8
EP1	6910018460	S.BEA MMZ1005Y102C-T	B	15.6/13.2
EP2	6910012350	S.BEA MMZ1608Y 102BT	T	11.5/14.6
EP3	6910018460	S.BEA MMZ1005Y102C-T	B	12.2/15.4
EP4	6910018460	S.BEA MMZ1005Y102C-T	T	9.7/14.4
EP5	6910018460	S.BEA MMZ1005Y102C-T	B	8.4/8.5
EP6	6910018460	S.BEA MMZ1005Y102C-T	B	7.1/8.5

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

[LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
EP7	6910018460	S.BEA MMZ1005Y102C-T	T	6.4/14.7
EP8	6910012350	S.BEA MMZ1608Y 102BT	B	4.6/8.0
EP9	8930084270	LCD SRCN-3251-SP-N-W SHJ		

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

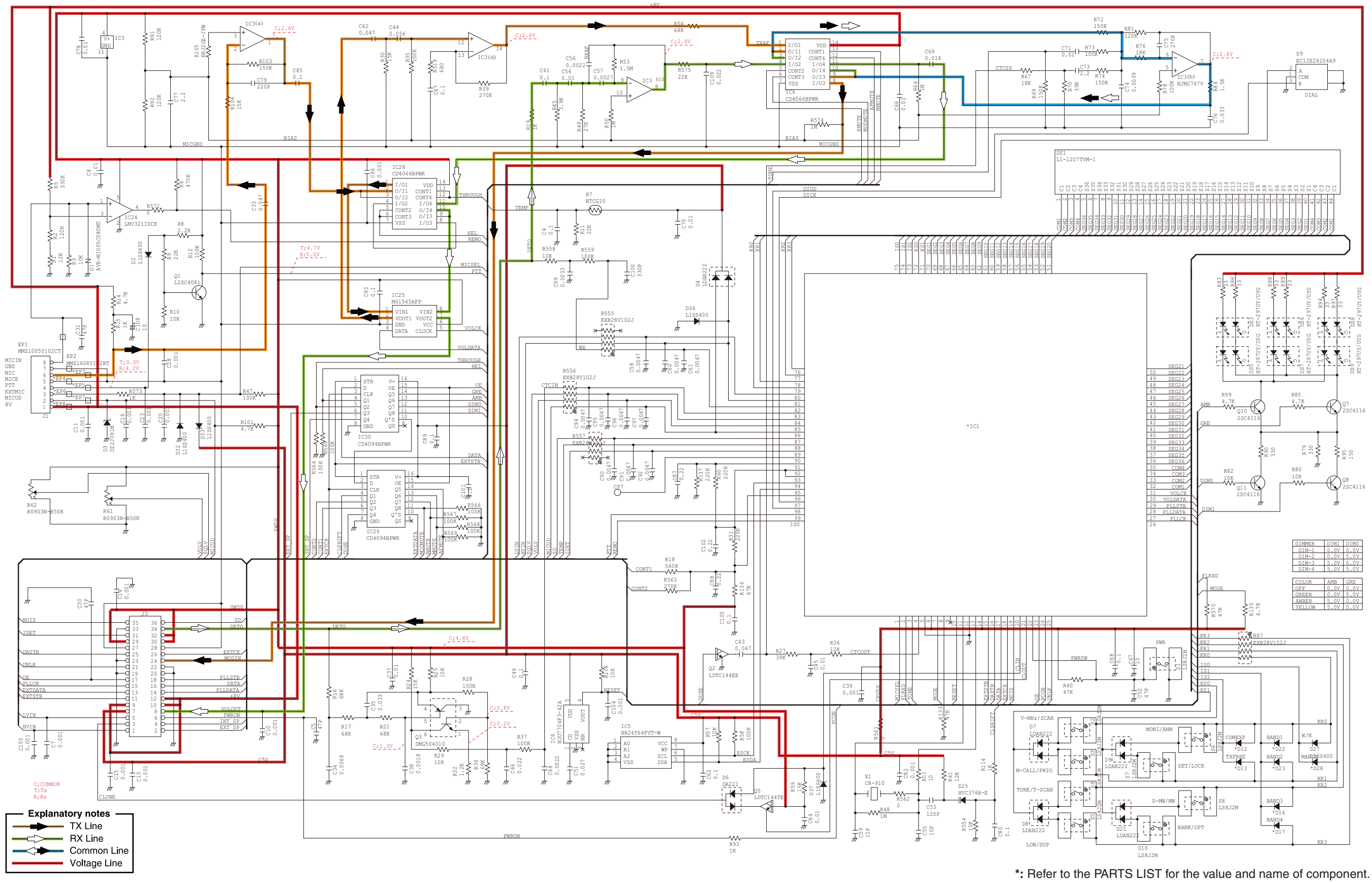






# VOLTAGE DIAGRAM

## • LOGIC UNIT





# SERVICE MANUAL ADDENDUM

## IC-2300H

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### [VERSION LIST]

MODEL	VERSION	TX POWER	MICROPHONE
IC-2300H	TPE	25W	HM-133V
	USA	65W	
	KOR	50W	
	CHN	65W	-
	EXP-01		HM-133V
	EXP-02		HM-154
	EXP-03		

# SECTION 7

# MECHANICAL PARTS

### [CHASSIS PARTS]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
W1	8600036881	SP CABLE-1 (FX2493 P01LO)	1
J1	6510004881	MR-DSE-01-1 <GA>	1
SP1	2510001160	057P0802	1
MP1	8010022230	3251 CHASSIS <STM>	1
MP2	8110010130	3251 COVER ASSEMBLY Y2160	1
MP3	8930083860	3251 SP RUBBER <KRI>	1
MP4	8930062130	THERMAL SHEET (AP)TC200HS-1.4 (15X23)	1
MP6	8810008661	PHBT M3 X 8 NI-ZC3	11
MP7	8810009611	FLAT M2.6X 6 ZK3	8
MP8	8810005161	CAPBOLT M3 X20 ZK3BLACK	2
MP9	8810009050	SET SCREWH M3 X10 NI	4

### [LOGIC UNIT]

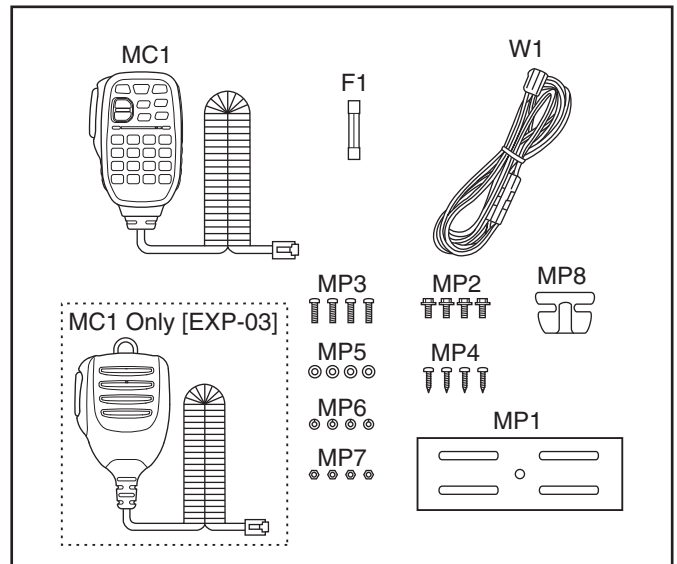
REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6450002210	3017-8821 <KIN>	1
J3*	6510028390	04-6294-036-000-800+	1
DS1	5030003530	L1-1207TVM-1 <TES>	1
S1*	2260002740	LS8J2M-T	1
S2*	2260002740	LS8J2M-T	1
S3*	2260002740	LS8J2M-T	1
S4*	2260002740	LS8J2M-T	1
S5*	2260002740	LS8J2M-T	1
S6*	2260002740	LS8J2M-T	1
S7*	2260002740	LS8J2M-T	1
S8*	2260002740	LS8J2M-T	1
S9	2250000790	EC12E24204A9	1
S10*	2260002740	LS8J2M-T	1
EP9	8930084270	SRCN-3251-SP-N-W SHJ	1
MP1	8210027220	3251 FRONT PANEL	1
MP2	8210027230	3251 REFLECTOR	1
MP3	8930083840	3251 2-KEY	1
MP4	8930083850	3251 7-KEY	1
MP5	8930084140	3251 LCD FILTER	1
MP6	8810008761	PHBT M2 X 8 NI-ZC3	4
MP7	8930083870	3251 LCD PLATE	1
MP8	8610014400	KNOB N-400	1
MP9	8610014410	KNOB N-401	2
MP11	8930057890	THERMAL SHEET CF	1

### [MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510028390	04-6294-036-000-800+	1
J2*	6510014961	B2B-ZR-SM4-TF (LF) (SN)	1
J3	6510025940	PJ-3047S <XIN>	1
W1	8900011882	OPC-1210A-1 (P0.5N36L70)	1
W2	7030012290	RDS2T0R0	1
W6	8900015130	OPC-1131A	1
MP2	8510019350	3179 VCO COVER Y1143	1
MP3*	8410002720	3251 PA HEATSINK	1
MP5*	8510019340	3179 VCO CASE Y1142	1

### [ACCESSORIES]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MC1	(Optional)	HM-133V [TPE]	1
	(Optional)	HM-133V [USA]	1
	(Optional)	HM-133V [KOR]	1
	(Optional)	HM-133V [EXP-01]	1
	(Optional)	HM-133V [EXP-02]	1
	(Optional)	HM-133V [THA-01]	1
	(Optional)	HM-133V [THA-02]	1
	(Optional)	HM-133V [EXP-03]	1
	(Optional)	HM-154	1
F1	5210000080	FGB 20A (FGB0 125V)	1
W1	(Optional)	OPC-1132A	1
MP1	8010019260	2633 MOBILE BRACKET	1
MP2	8820000530	FLANGE BOLT M4 X 8 NI	4
MP3	8810000471	PH M5 X12 (+-) ZC3	4
MP4	8810000951	PHA M5 X16 ZC3	4
MP5	8850000150	FLAT WASHER M 5 NI BS	4
MP6	8850000391	S-WASHER M5 ZC3	4
MP7	8830000121	NUT M 5 ZC3	4
MP8	8930007300	MIC HANGER	1



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

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









[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C251	4030016790	S.CER C1005 JB 1E 103K-T	B	100.4/20.5
C254	4030011240	S.CER GRM31M2C2H470JV01L (GRM42-6)	T	80.2/47.6
C255	4030017460	S.CER C1005 JB 1H 102K-T	B	81.6/31.8
C256	4030017460	S.CER C1005 JB 1H 102K-T	B	102.2/20.5
C257	4030017460	S.CER C1005 JB 1H 102K-T	T	81.3/30.6
C258	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/22.0
C260	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/49.8
C261	4030020000	S.CER C1005 JB 1A 105K-T	B	97.9/22.0
C262	4030017460	S.CER C1005 JB 1H 102K-T	B	106.7/20.4
C263	4030017460	S.CER C1005 JB 1H 102K-T	T	82.5/27.6
C265	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/47.7
C266	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/45.6
C267	4030017460	S.CER C1005 JB 1H 102K-T	T	80.1/30.2
C269	4030019990	S.CER C1005 JB 1C 104K-T	T	82.3/26.0
C270	4030017640	S.CER C1005 CH 1H 150J-T	B	106.3/23.4
C271	4030017460	S.CER C1005 JB 1H 102K-T	T	78.9/30.6
C272	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/43.5
C274	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/41.4
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	86.4/27.9
C276	4030017460	S.CER C1005 JB 1H 102K-T	B	112.0/19.5
C277	4030017460	S.CER C1005 JB 1H 102K-T	T	84.7/26.2
C278	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/39.3
C279	4030017680	S.CER C1005 CH 1H 820J-T	B	110.8/21.5
C280	4030017460	S.CER C1005 JB 1H 102K-T	T	89.0/37.7
C281	4030018940	S.CER GRM31A7U2J331JW31D	T	98.1/35.9
C282	4030018940	S.CER GRM31A7U2J331JW31D	T	96.0/35.9
C283	4030018940	S.CER GRM31A7U2J331JW31D	T	93.7/35.9
C284	4030017460	S.CER C1005 JB 1H 102K-T	T	68.7/24.3
C285	4030019990	S.CER C1005 JB 1C 104K-T	T	86.4/28.8
C287	4030017380	S.CER C1005 CH 1H50B-T	B	110.8/23.1
C288	4030019420	S.CER GRM31A7U2J102JW31D	T	104.3/32.0
C291	4030011170	S.CER GRM31M2C2H180JV01L (GRM42-6)	B	104.3/34.6
C292	4030017460	S.CER C1005 JB 1H 102K-T	B	111.2/26.3
C293	4030017550	S.CER C1005 CH 1H 1R5B-T	T	110.2/23.1
C295	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	109.1/41.9
C296	4030007020	S.CER C1608 CH 1H 120J-T	B	104.7/41.5
C298	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6)	B	104.3/39.8
C299	4030017460	S.CER C1005 JB 1H 102K-T	B	101.9/42.4
C300	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6)	B	100.3/51.6
C302	4030017390	S.CER C1005 CH 1H 180J-T	T	108.8/26.9
C303	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	103.4/47.8
C304	4030007020	S.CER C1608 CH 1H 120J-T	B	99.4/49.4
C305	4030011050	S.CER GRM31M3C2H3R0CY21L (GRM42-6 C.J)	T	98.7/29.9
C306	4030011210	S.CER GRM31M2C2H330JV01L (GRM42-6)	B	100.3/56.9
C307	4030011160	S.CER GRM31M2C2H150JV01L (GRM42-6)	B	104.2/63.1
C308	4030017450	S.CER C1005 JB 1H 271K-T	B	98.6/4.1
C309	4030017460	S.CER C1005 JB 1H 102K-T	T	97.9/1.2
C310	4030019990	S.CER C1005 JB 1C 104K-T	T	108.0/8.8
C311	4030019990	S.CER C1005 JB 1C 104K-T	T	99.7/5.6
C312	4030019990	S.CER C1005 JB 1C 104K-T	T	100.0/11.8
C313	4030019990	S.CER C1005 JB 1C 104K-T	T	111.5/10.0
C314	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/48.9
C315	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/60.5
C319	4510010010	S.ELE 25 CE 220 LX	T	22.4/16.6
C321	4030020000	S.CER C1005 JB 1A 105K-T	T	23.2/52.4
C322	4030019990	S.CER C1005 JB 1C 104K-T	B	14.6/16.5
C323	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6)	T	86.3/45.6
C332	4550007090	S.TAN TEESVA 1A 226M8R	T	68.5/10.7
Eqv.	4550008160	S.TAN F931A226MAA		
C333	4030016970	S.CER C1005 JB 1E 223K-T	B	25.6/3.6
C334	4030019460	S.CER C1608 JBJ 106M-T	T	71.7/16.4
J1	6510028390	S.CON 04-6294-036-000-800	T	60.0/6.8
J2	6510014961	S.CON B2B-ZR-SM4-TF(LF)(SN)	T	8.9/56.5
J3	6510025940	CON PJ-3047S <XIN>		
W1	8900011882	CAB OPC-1210A-1(P0.5N36L70) <TJM>		
W2	7030012290	JUM RDS2T0R0		
W6	8900015130	CAB OPC-1131A <TJM>		
EP3	6910018460	S.BEA MMZ1005Y102C-T	T	24.8/51.5
EP4	6910014730	S.BEA MPZ2012S331A-T	T	34.7/64.6
EP5	6910020610	S.BEA BLM15BD102SN1D	B	45.7/26.3

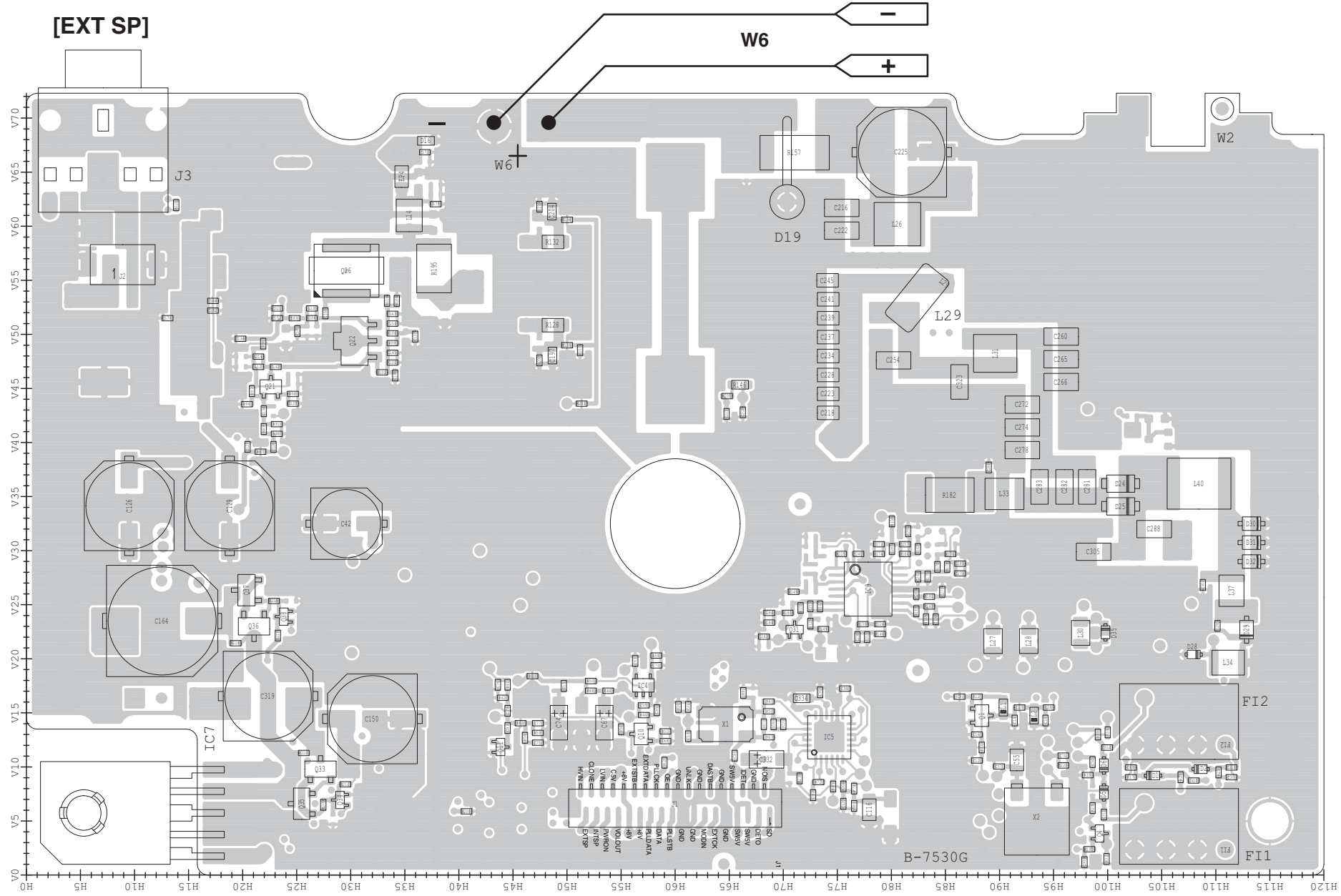
Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

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

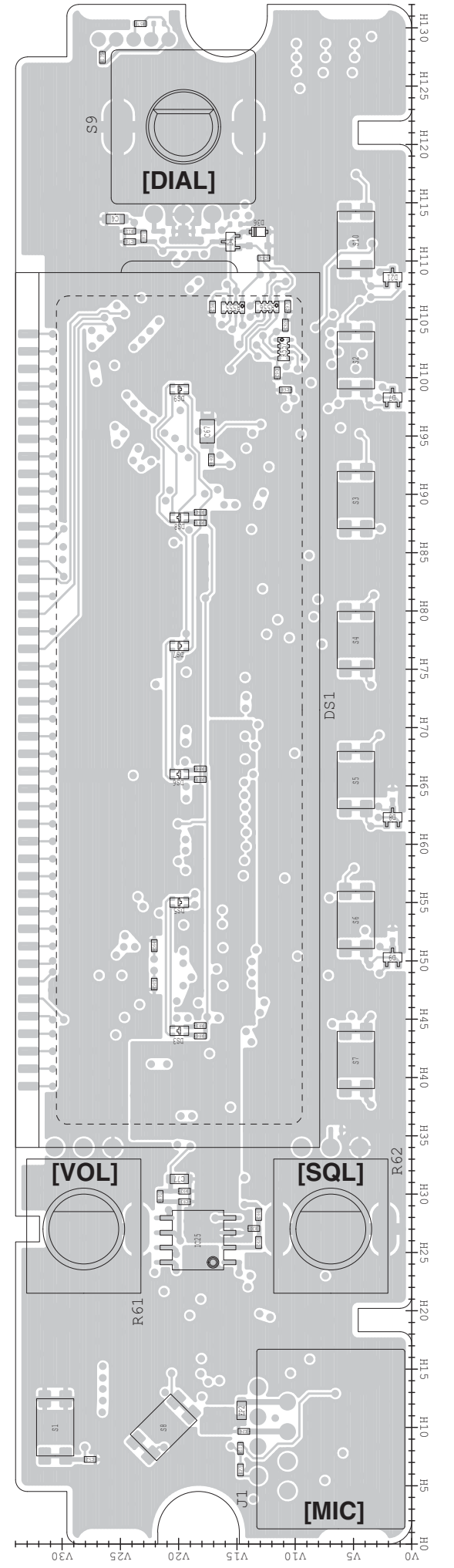
# BOARD LAYOUTS

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

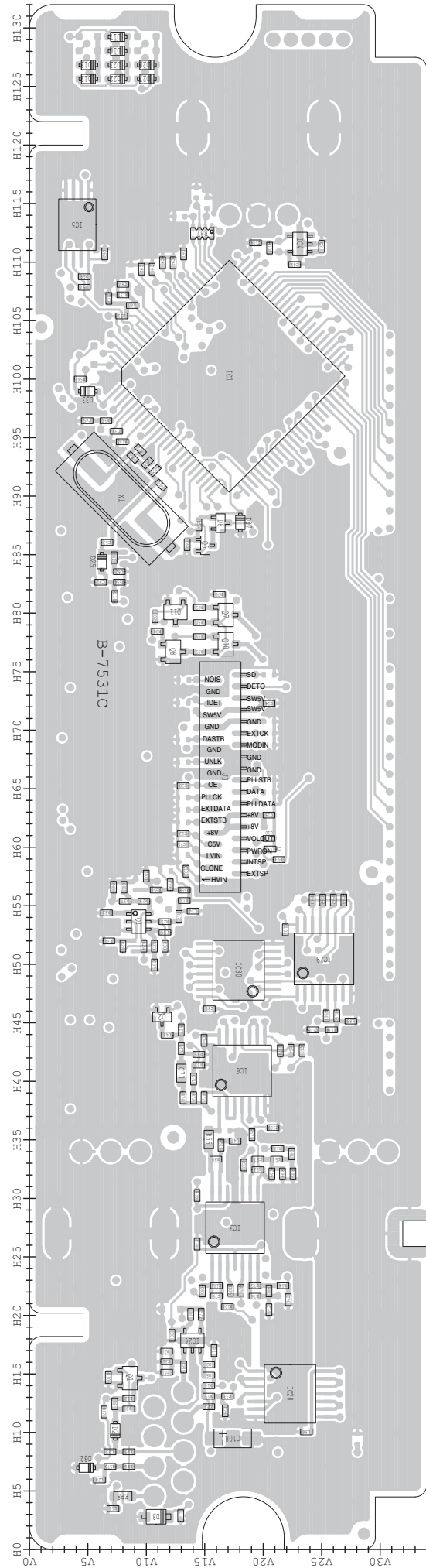
• **MAIN UNIT (TOP VIEW)**



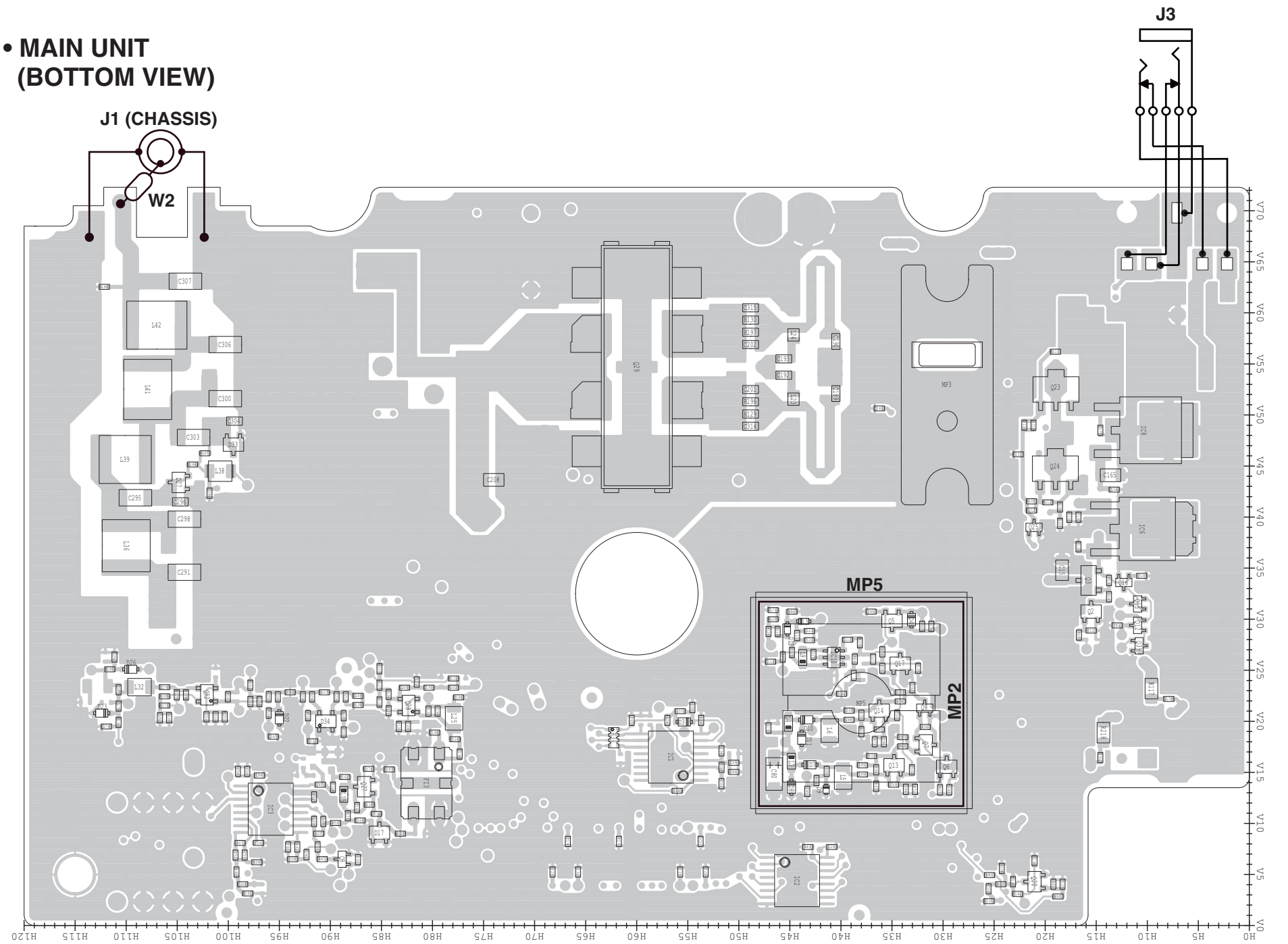
• **LOGIC UNIT (TOP VIEW)**



• LOGIC UNIT  
(BOTTOM VIEW)



• MAIN UNIT  
(BOTTOM VIEW)



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## IC-2300H

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### [VERSION LIST]

MODEL	VERSION	TX POWER	MICROPHONE
IC-2300H	TPE	24 W	HM-133V
	USA	65 W	
	KOR	50 W	
	CHN	65 W	-
	EXP-01		HM-133V
	EXP-02		

# SECTION 1 SPECIFICATIONS

## ■ GENERAL

- Frequency coverage : (unit: MHz)  
 USA Tx: 144–148/Rx: 136–174\*  
 Export, China Tx: 136–174\*/Rx: 136–174\*  
 Taiwan, Korea Tx/Rx: 144–146  
 \*Guaranteed: 144–148 MHz range only.
- Type of emission : FM
- Number of memory channels : 207 (incl. 6 scan edges and 1 Call)
- Scan types : Full, Program, Priority, Memory channel, Bank, Skip, Tone scans
- Frequency resolution : 5, 6.25, 10, 12.5, 15, 20, 25, 30, 50 kHz
- Operating temperature range : –10°C to +60°C; +14°F to +140°F
- Frequency stability : ±3 ppm (–10°C to +60°C)
- Power supply requirement : 13.8 V DC ±15%
- Current drain (at 13.8 V DC: approximately):  
 Transmit at 65 W 11 A  
 (less than 9 A at 24 W for the Taiwan version)  
 Receive standby 0.4 A  
 max. audio 1.5 A
- Antenna connector : SO-239 (50 Ω)
- Dimensions (proj. not included) : 140.0(W)×40.0(H)×118.0(D) mm;  
 5.5(W)×1.6(H)×4.6(D) in
- Weight (approximately) : 1.1 kg; 2.4 lb

## ■ TRANSMITTER

- Modulation system : Variable reactance frequency mod.
- Output power (approximately) :

	USA, Export, China	Taiwan	Korea
High:	65 W	24 W	50 W
Mid:	25 W	10 W	25 W
Mid-Low:	10 W	–	10 W
Low:	5 W	5 W	5 W

- Max. frequency deviation : ±5.0 kHz (Wide)/±2.5 kHz (Narrow)
- Spurious emissions : Less than –60 dBc
- Microphone connector : 8-pin modular (600 Ω)

## ■ RECEIVER

- Receive system : Double-conversion superheterodyne
- Intermediate frequencies : 1st: 46.35 MHz, 2nd: 450 kHz
- Sensitivity (at 12 dB SINAD) : Less than 0.18 μV
- Squelch sensitivity : Less than 0.13 μV (threshold)
- Selectivity :  
 [Wide] More than ±6 kHz/6 dB  
 Less than ±14 kHz/60 dB  
 [Narrow] More than ±3 kHz/6 dB  
 Less than ±9 kHz/55 dB
- Spurious and image rejection : More than 60 dB
- AF output power (at 13.8 V DC) : More than 3.5 W (4.5 W typical)  
 (at 10% distortion with a 4 Ω load)
- External speaker connector : 3-conductor 3.5 (d) mm (1/8 inch)/4 Ω

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

### 5-3 TRANSMIT ADJUSTMENTS

- 1) Select an adjustment item using [BANK] or [V/MHz].
- 2) Set or modify the adjustment value as specified using [DIAL], and then push [S.MW].

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE	
<b>TX OUTPUT POWER</b> (Hi power) -Band low- ----- -Band center- ----- -Band high- ----- (Mid power) -Band low- ----- -Band center- ----- -Band high- ----- (Mid-Low power) -Band low- ----- -Band center- ----- -Band high- ----- (Low power) -Band low- ----- -Band center- ----- -Band high-	1	NOTE: Rotating [DIAL] in the TX adjustment mode without actually transmitting will result in an inaccurate adjustment.  • Transmitting  1) Connect an RF power meter to the antenna connector.  2) While transmitting, adjust the frequency using [DIAL], and then push [S.MW] to store the adjustment value.	[Po]	59–61 W (51–53 W <sup>**</sup> )	
	2			65–67 W (51–53 W <sup>**</sup> )	
	3			54–56 W (51–53 W <sup>**</sup> )	
	4			24–26 W (21–23 W <sup>***</sup> )	
	5				
	6				
	7			9–11 W	
	8				
	9				
	10			4–6 W	
	11				
	12				
<b>FM DEVIATION</b> -Band low- ----- -Band center- ----- -Band high-	1	• Transmitting  1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it to; HPF : OFF LPF : 20 kHz  2) Connect an audio generator to the JIG cable, and set it to; Frequency : 1 kHz Level : 20 mVrms (80 mVrms*)  3) While transmitting, adjust the deviation using [DIAL], and then push [S.MW] to store the adjustment value.	[dE]	4.1–4.3 kHz	
	2				
	3				
<b>MODULATION BALANCE</b> -Band low- ----- -Band center- ----- -Band high-	1	• Transmitting  1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it to; HPF : OFF LPF : 20 kHz  2) While transmitting, adjust the deviation using [DIAL], and then push [S.MW] to store the adjustment value.	[dt]	1.50–1.60 kHz	
	2				
	3				
<b>TONES DEVIATION</b> ----- CTCSS ----- DTCS ----- DTMF ----- EUR	1	• Transmitting  1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it to; HPF : OFF LPF : 20 kHz  2) While transmitting, adjust the deviation using [DIAL], and then push [S.MW] to store the adjustment value.	[dC]	0.70–0.80 kHz	
	2				
	3		[dd]		
	4		[dF]	3.4–3.6 kHz	
	5		[dU]		

\*: For [USA] \*\*: For [KOR] \*\*\*: For [TPE]









[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C251	4030016790	S.CER C1005 JB 1E 103K-T	B	100.4/20.5
C254	4030011240	S.CER GRM31M2C2H470JV01L (GRM42-6 CH)	T	80.2/47.6
C255	4030017460	S.CER C1005 JB 1H 102K-T	B	81.6/31.8
C256	4030017460	S.CER C1005 JB 1H 102K-T	B	102.2/20.5
C257	4030017460	S.CER C1005 JB 1H 102K-T	T	81.3/30.6
C258	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/22.0
C260	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/49.8
C261	4030020000	S.CER C1005 JB 1A 105K-T	B	97.9/22.0
C262	4030017460	S.CER C1005 JB 1H 102K-T	B	106.7/20.4
C263	4030017460	S.CER C1005 JB 1H 102K-T	T	82.5/27.6
C265	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/47.7
C266	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/45.6
C267	4030017460	S.CER C1005 JB 1H 102K-T	T	80.1/30.2
C269	4030019990	S.CER C1005 JB 1C 104K-T	T	82.3/26.0
C270	4030017640	S.CER C1005 CH 1H 150J-T	B	106.3/23.4
C271	4030017460	S.CER C1005 JB 1H 102K-T	T	78.9/30.6
C272	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/43.5
C274	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/41.4
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	86.4/27.9
C276	4030017460	S.CER C1005 JB 1H 102K-T	B	112.0/19.5
C277	4030017460	S.CER C1005 JB 1H 102K-T	T	84.7/26.2
C278	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/39.3
C279	4030017680	S.CER C1005 CH 1H 820J-T	B	110.8/21.5
C280	4030017460	S.CER C1005 JB 1H 102K-T	T	89.0/37.7
C281	4030018940	S.CER GRM31A7U2J331JW31D	T	98.1/35.9
C282	4030018940	S.CER GRM31A7U2J331JW31D	T	96.0/35.9
C283	4030018940	S.CER GRM31A7U2J331JW31D	T	93.7/35.9
C284	4030017460	S.CER C1005 JB 1H 102K-T	T	68.7/24.3
C285	4030019990	S.CER C1005 JB 1C 104K-T	T	86.4/28.8
C287	4030017380	S.CER C1005 CH 1H 050B-T	B	110.8/23.1
C288	4030019420	S.CER GRM31A7U2J102JW31D	T	104.3/32.0
C291	4030011170	S.CER GRM31M2C2H180JV01L (GRM42-6 CH)	B	104.3/34.6
C292	4030017460	S.CER C1005 JB 1H 102K-T	B	111.2/26.3
C293	4030017550	S.CER C1005 CH 1H 1R5B-T	T	110.2/23.1
C295	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	109.1/41.9
C296	4030007020	S.CER C1608 CH 1H 120J-T	B	104.7/41.5
C298	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	B	104.3/39.8
C299	4030017460	S.CER C1005 JB 1H 102K-T	B	101.9/42.4
C300	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	B	100.3/51.6
C302	4030017390	S.CER C1005 CH 1H 180J-T	T	108.8/26.9
C303	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	103.4/47.8
C304	4030007020	S.CER C1608 CH 1H 120J-T	B	99.4/49.4
C305	4030011050	S.CER GRM31M3C2H3R0CY21L (GRM42-6 C.J)	T	98.7/29.9
C306	4030011210	S.CER GRM31M2C2H330JV01L (GRM42-6 CH)	B	100.3/56.9
C307	4030011160	S.CER GRM31M2C2H150JV01L (GRM42-6 CH)	B	104.2/63.1
C308	4030017450	S.CER C1005 JB 1H 271K-T	B	98.6/4.1
C309	4030017460	S.CER C1005 JB 1H 102K-T	T	97.9/1.2
C310	4030019990	S.CER C1005 JB 1C 104K-T	T	108.0/8.8
C311	4030019990	S.CER C1005 JB 1C 104K-T	T	99.7/5.6
C312	4030019990	S.CER C1005 JB 1C 104K-T	T	100.0/11.8
C313	4030019990	S.CER C1005 JB 1C 104K-T	T	111.5/10.0
C314	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/48.9
C315	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/60.5
C319	4510010010	S.ELE 25 CE 220 LX	T	22.4/16.6
C321	4030020000	S.CER C1005 JB 1A 105K-T	T	23.2/52.4
C322	4030019990	S.CER C1005 JB 1C 104K-T	B	14.6/16.5
C323	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	T	86.3/45.6
C332	4550007090	S.TAN TEESVA 1A 226M8R	T	68.5/10.7
Eqv.	4550008160	S.TAN F931A226MAA		
C333	4030016970	S.CER C1005 JB 1E 223K-T	B	25.6/3.6
C334	4030019460	S.CER C1608 JB 0J 106M-T	T	71.7/16.4
J1	6510028390	S.CON 04-6294-036-000-800	T	60.0/6.8
J2	6510014961	S.CON B2B-ZR-SM4-TF(LF)(SN)	T	8.9/56.5
J3	6510025940	CON PJ-3047S <XIN>		
W1	8900011882	CAB OPC-1210A-1(P0.5N36L70) <TJM>		
W2	7030012290	JUM RDS2T0R0		
W6	8900015130	CAB OPC-1131A <TJM>		
EP3	6910018460	S.BEA MMZ1005Y102C-T	T	24.8/51.5
EP4	6910014730	S.BEA MPZ2012S331A-T	T	34.7/64.6
EP5	6910020610	S.BEA BLM15BD102SN1D	B	45.7/26.3

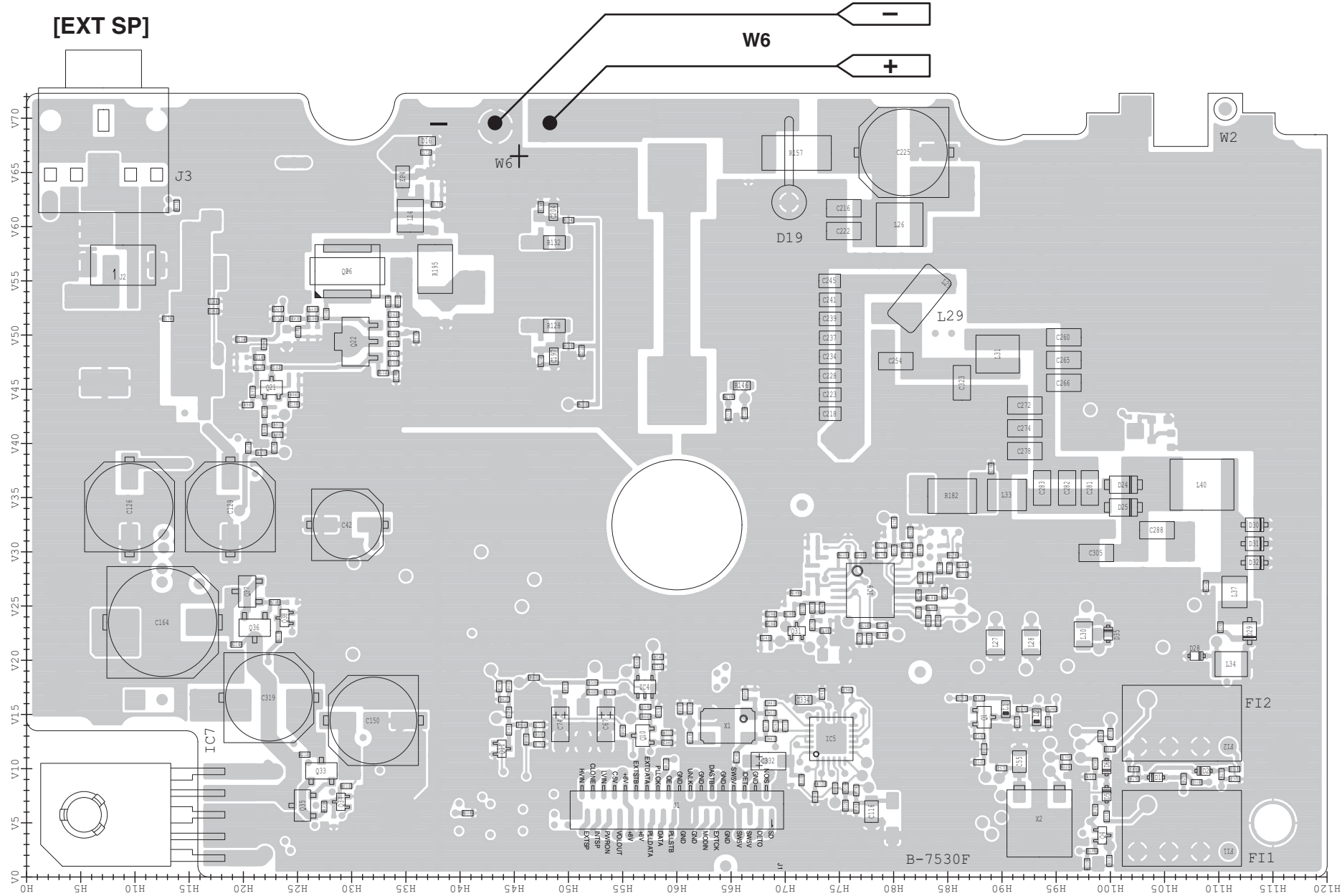
Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

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

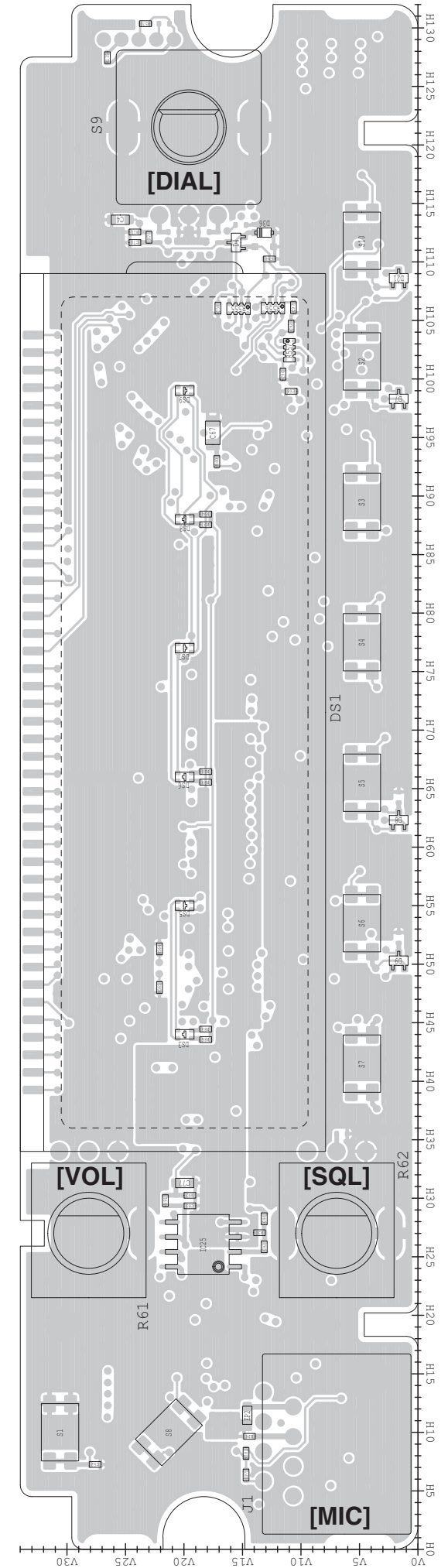
# BOARD LAYOUTS

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

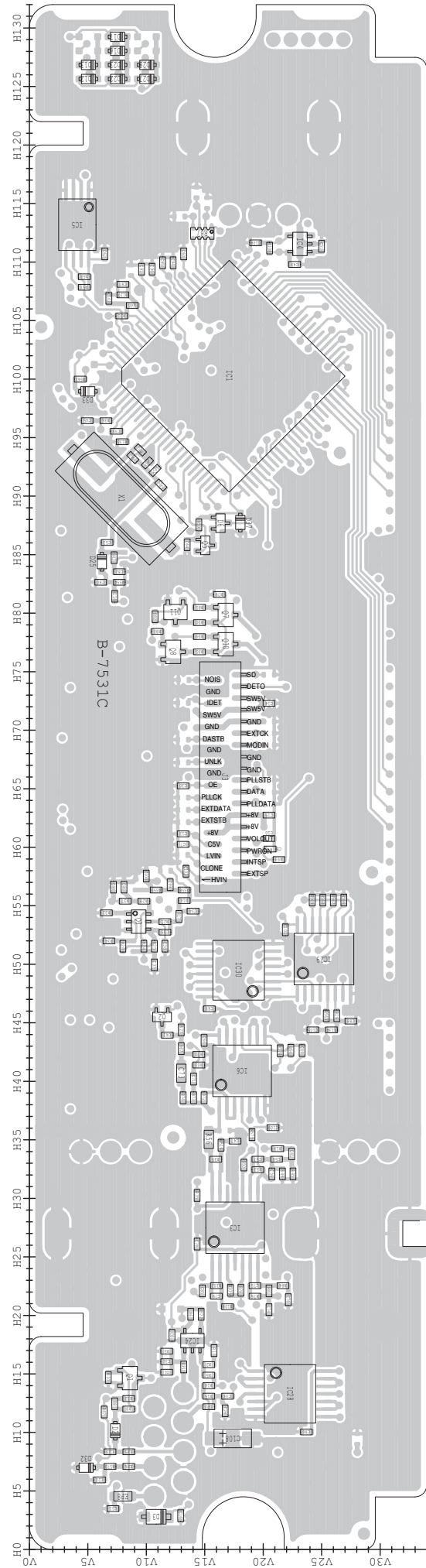
## • MAIN UNIT (TOP VIEW)



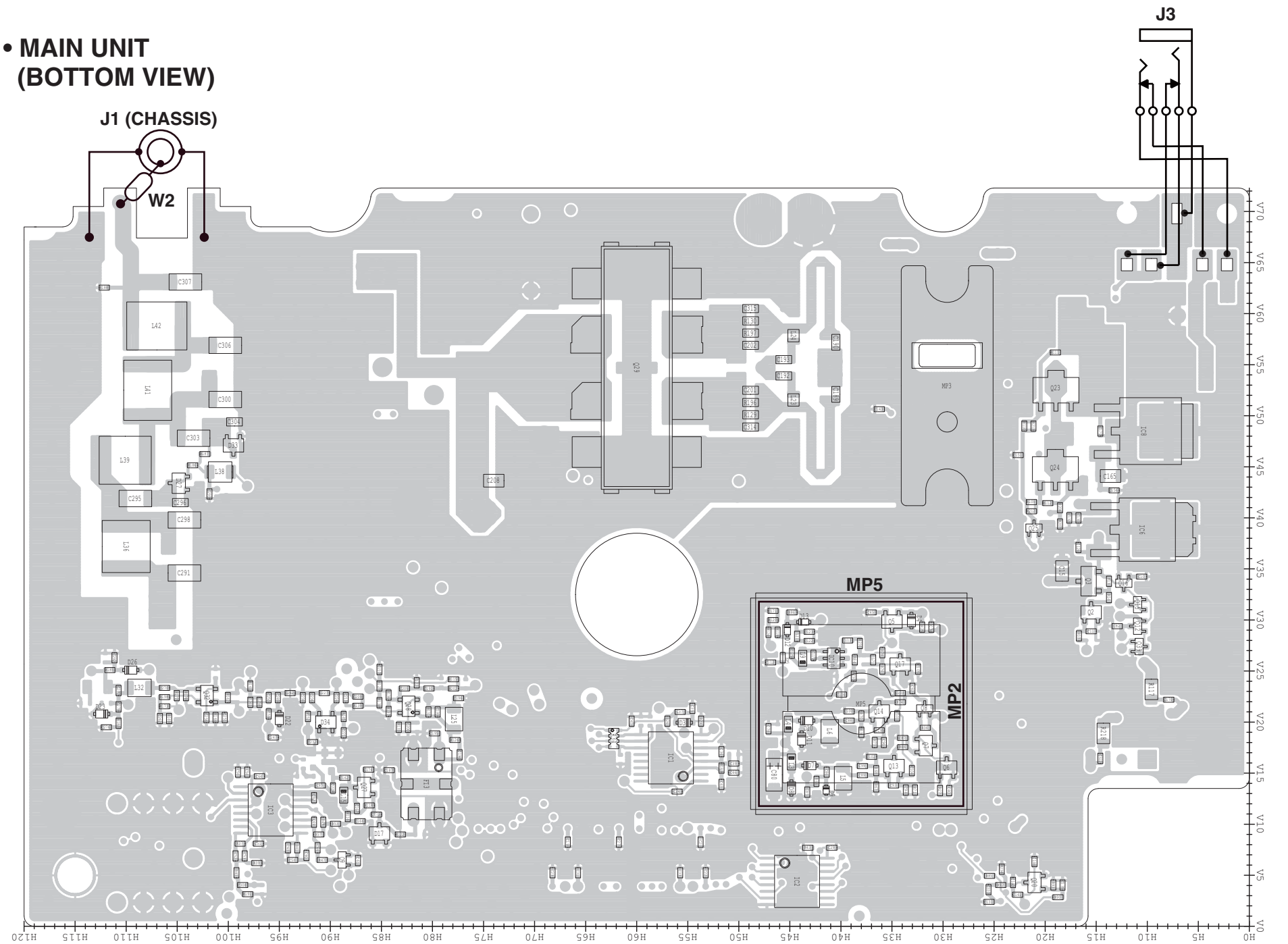
## • LOGIC UNIT (TOP VIEW)



• LOGIC UNIT  
(BOTTOM VIEW)



• MAIN UNIT  
(BOTTOM VIEW)



July 2012



# SERVICE MANUAL ADDENDUM

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## IC-2300H

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**SECTION 7**

**MECHANICAL PARTS**

**[CHASSIS PARTS]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
W1	8600036881	SP CABLE-1 (FX2493 P01LO)	1
J1	6510004881	MR-DSE-01-1 <GA>	1
SP1	2510001160	057P0802	1
MP1	8010022230	3251 CHASSIS <STM>	1
MP2	8110010130	3251 COVER ASSEMBLY	1
MP3	8930083860	3251 SP RUBBER <KRI>	1
MP4	8930062130	THERMAL SHEET (AP)TC200HS-1.4 (15X23)	1
MP6	8810008661	PHBT M3 X 8 NI-ZC3	11
MP7	8810009611	FLAT M2.6X 6 ZK3	8
MP8	8810005161	CAPBOLT M3 X20 ZK3BLACK	2
MP9	8810009050	SETSCREWH M3 X10 NI	4

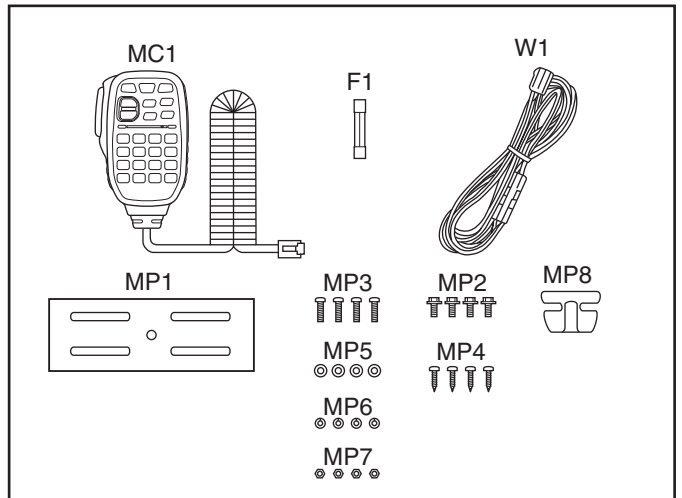
**[ACCESSORIES]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
F1	5210000080	FGB 20A (FGB0 125V)	1
MC1	(Optional)	HM-133V	1
W1	(Optional)	OPC-1132A	1
MP1	8010019260	2633 MOBILE BRACKET MOQ	1
MP2	8820000530	FLANGE BOLT M4 X 8 NI	4
MP3	8810000471	PH M5 X12 (+-) ZC3	4
MP4	8810000951	PHA M5 X16 ZC3	4
MP5	8850000150	FLAT WASHER M5 NI BS	4
MP6	8850000391	S-WASHER M5 ZC3	4
MP7	8830000121	NUT M5 ZC3	4
MP8	8930007300	MIC HANGER	1

[USA] only

**[LOGIC UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6450002210	3017-8821 <KIN>	1
J3*	6510028390	04-6294-036-000-800	1
DS1	5030003530	L1-1207TVM-1 <TES>	1
S1*	2260002740	LS8J2M-T	1
S2*	2260002740	LS8J2M-T	1
S3*	2260002740	LS8J2M-T	1
S4*	2260002740	LS8J2M-T	1
S5*	2260002740	LS8J2M-T	1
S6*	2260002740	LS8J2M-T	1
S7*	2260002740	LS8J2M-T	1
S8*	2260002740	LS8J2M-T	1
S9*	2250000700	EC12E24204A8	1
S10*	2260002740	LS8J2M-T	1
EP9	8930084270	SRCN-3251-SP-N-W	1
MP1	8210027220	3251 FRONT PANEL	1
MP2	8210027230	3251 REFLECTOR	1
MP3	8930083840	3251 2-KEY	1
MP4	8930083850	3251 7-KEY	1
MP5	8930084140	3251 LCD FILTER	1
MP6	8810008761	PHBT M2 X 8 NI-ZC3	4
MP7	8930083870	3251 LCD PLATE	1
MP8	8610014400	KNOB N-400	1
MP9	8610014410	KNOB N-401	2
MP11	8930057890	THERMAL SHEET CF	1



**[MAIN UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510028390	04-6294-036-000-800	1
J2*	6510014961	B2B-ZR-SM4-TF (LF) (SN)	1
J3*	6510025940	PJ-3047S <XIN>	1
W1	8900011882	OPC-1210A-1 (P0.5N36L70)	1
W2*	7030012290	RDS2T0R0	1
W6	8900015130	OPC-1131A	1
MP2*	8510019350	3179 VCO COVER Y1143	1
MP3*	8410002720	3251 PA HEATSINK	1
MP5*	8510019340	3179 VCO CASE Y1142	1

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

**Screw abbreviations** A, B0, BT: Self-tapping PH: Pan head ZK: Black NI-ZU: Nickel-Zinc SUS: Stainless

# PARTS LIST

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC3	1110008170	S.IC NJM2747V-TE1-#ZZZB	B	27.5/17.6
IC4	1110007620	S.IC NUJ7704F3-42A-TE1-#ZZZB	B	111.6/23.2
IC5	1130016260	S.IC BR24T64FVT-WE2	B	113.2/4.1
IC6	1130011770	S.IC CD4066BPWR	B	40.9/18.2
IC24	1110006490	S.IC LMV321IDCKR	B	17.9/14.0
IC25	1110007200	S.IC M61545AFP#DFOR	T	26.1/18.4
IC28	1130011770	S.IC CD4066BPWR	B	13.3/22.3
IC29	1130011760	S.IC CD4094BPWR	B	50.5/25.2
IC30	1130011760	S.IC CD4094BPWR	B	49.5/17.9
Q1	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	14.7/8.6
Q2	1590004070	S.TRA LDTCL44EET1G <SLVJ>	B	45.5/11.4
Q3	1590004390	S.TRA DMG504010R	B	53.7/9.4
Q5	1590004100	S.TRA LDTCL44TET1G <SLVJ>	B	85.8/15.1
Q7	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	79.9/16.8
Q8	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	76.7/12.3
Q10	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	77.4/16.8
Q11	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	80.1/12.5
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	15.2/11.8
D2	1750001810	S.DIO L1SS400T1G <SLVJ>	B	10.2/7.4
D3	1750002040	S.ZEN DZJ091MOL	B	2.8/10.9
D4	1750001850	S.DIO LDAN222T1G <SLVJ>	T	111.7/15.6
D6	1750000370	S.DIO DA221 TL	B	87.7/16.4
Eqv.	1750001820	S.DIO LRB706F-40T1G <SLVJ>	B	
D7	1750001850	S.DIO LDAN222T1G <SLVJ>	T	98.3/1.7
D8	1750001850	S.DIO LDAN222T1G <SLVJ>	T	62.3/1.7
D9	1750001850	S.DIO LDAN222T1G <SLVJ>	T	50.3/1.7
D12	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	125.7/5.1
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]	B	
D13	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	126.9/5.1
	1750001810	S.DIO L1SS400T1G <SLVJ> [USA]	B	
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]	B	
D16	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-01]	B	128.1/7.6
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-02]	B	
D17	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	129.3/7.6
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]	B	
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-01]	B	
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-02]	B	
D21	1750001850	S.DIO LDAN222T1G <SLVJ>	T	108.6/1.7
D22	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	125.7/7.6
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-01]	B	
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-02]	B	
D23	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	126.9/7.6
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]	B	
D25	1750000771	S.VAR HVC376BTRF-E	B	84.4/6.2
D27	1750001810	S.DIO L1SS400T1G <SLVJ>	B	125.7/10.1
D28	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	126.9/10.1
	1750001810	S.DIO L1SS400T1G <SLVJ> [USA]	B	
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]	B	
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-02]	B	
D32	1750001810	S.DIO L1SS400T1G <SLVJ>	B	7.0/4.9
D33	1750001810	S.DIO L1SS400T1G <SLVJ>	B	99.0/5.0
D36	1750001810	S.DIO L1SS400T1G <SLVJ>	T	112.5/13.2
D37	1750001810	S.DIO L1SS400T1G <SLVJ>	B	87.8/18.1
X1	6050013180	S.XTA CR-910(HC-49US/9.8304 MHz) <JJE>	B	89.8/7.9
R1	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	17.0/15.8
R2	7030005310	S.RES ERJ2GEJ 124 X (120K)	B	15.8/15.4
R3	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	17.0/11.8
R5	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	14.9/15.4
R6	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	20.1/13.8
R7	7510001770	S.THE NTCG10 4LH 473JT	T	112.1/23.0
R8	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	12.5/7.3
R9	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	12.0/8.5
R10	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	14.7/6.8
R11	7030005830	S.RES RR0510P-223-D (22K)	T	112.6/24.2
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	12.9/8.5
R14	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	14.0/15.4
R15	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	13.1/15.4
R16	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	55.5/13.3
R17	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	54.1/12.8
R18	7030008310	S.RES ERJ2GEJ 564 X (560K)	B	45.6/26.3
R19	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	34.3/21.3
R21	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	53.7/11.6
R24	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	51.6/9.8
R25	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	51.6/10.7
R27	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	44.4/13.0
R28	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	51.6/8.0
R29	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	55.4/9.8
R30	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	27.1/13.6
R31	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	50.4/7.9
R32	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	B	54.4/6.6
R34	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	52.0/6.8
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	30.3/14.4
R36	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	96.5/6.6
R37	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.4/9.8
R39	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	33.4/16.0
R40	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	93.0/17.2
R41	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	84.8/7.3
R45	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	B	32.1/22.6
R47	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	11.8/6.4

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

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R48	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	93.3/8.9
R49	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	32.1/21.7
R50	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	32.9/18.4
R51	7030005530	S.RES ERJ2GEJ 100 X (10)	B	92.2/10.8
R53	7030007310	S.RES ERJ2GEJ 155 X (1.5M)	B	32.5/19.6
R56	7030003660	S.RES ERJ3GEYJ 683 V (68K)	B	35.1/15.4
R57	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.9/4.7
R58	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	108.8/4.7
R59	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	87.6/14.5
R60	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	106.3/8.8
R61	7210003340	VAR R0903N-B50KL-20F <SKD>		
R62	7210003340	VAR R0903N-B50KL-20F <SKD>		
R64	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	42.7/22.4
R67	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	42.8/13.0
R69	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	41.4/14.5
R70	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	42.3/14.5
R72	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	38.6/15.0
R73	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	38.6/14.1
R74	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	38.6/13.2
R76	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	21.7/19.3
R78	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	22.2/18.1
R79	7030007280	S.RES ERJ2GEJ 331 X (330)	B	81.6/16.3
R80	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	78.5/11.0
R81	7030005310	S.RES ERJ2GEJ 124 X (120K)	B	22.1/20.5
R82	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	79.7/10.8
R83	7030007260	S.RES ERJ2GEJ 330 X (33)	T	44.5/18.2
R84	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	22.6/21.7
R85	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	80.5/14.6
R86	7030007260	S.RES ERJ2GEJ 330 X (33)	T	43.6/18.2
R87	7410001130	S.ARR EXB28V102JX	B	112.5/14.8
R88	7030007260	S.RES ERJ2GEJ 330 X (33)	T	66.5/18.2
R89	7030007260	S.RES ERJ2GEJ 330 X (33)	T	65.6/18.2
R90	7030007280	S.RES ERJ2GEJ 331 X (330)	B	79.2/17.6
R91	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	29.8/21.6
R92	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	30.3/19.5
R93	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	59.0/21.4
R94	7030007260	S.RES ERJ2GEJ 330 X (33)	T	88.5/18.2
R95	7030007270	S.RES ERJ2GEJ 151 X (150)	B	76.7/14.6
R97	7030007260	S.RES ERJ2GEJ 330 X (33)	T	87.6/18.2
R99	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	78.0/14.6
R101	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	8.2/14.7
R103	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	22.6/16.0
R104	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	20.8/17.0
R105	7030010040	S.RES ERJ2GEJ-JPW	B	22.2/17.2
R108	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	111.2/20.6
R114	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	81.5/7.3
R133	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	94.7/8.0
R134	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	44.4/25.9
R135	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	127.5/26.6
R137	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	107.2/8.0
R519	7030005010	S.RES ERJ2GEJ 681 X (680)	B	34.6/16.4
R554	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	82.7/7.7
R555	7410001130	S.ARR EXB28V102JX	T	106.0/15.4
R556	7410001130	S.ARR EXB28V102JX	T	106.1/12.4
R557	7410001130	S.ARR EXB28V102JX	T	102.5/11.0
R558	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	56.4/13.3
R559	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	56.4/10.9
R561	7030010040	S.RES ERJ2GEJ-JPW	B	100.0/4.4
R562	7030010040	S.RES ERJ2GEJ-JPW	B	91.0/11.3
R563	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	45.6/25.4
R564	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	51.3/22.1
R565	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	48.0/22.1
R566	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/26.9
R567	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/26.0
R568	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/25.1
R569	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/24.2
R570	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	130.4/23.3
R572	7030010040	S.RES ERJ2GEJ-JPW	B	20.1/14.7
R573	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	7.1/6.9
R574	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	42.6/21.5
R575	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	35.5/19.1
C4	4030011600	S.CER C1608 JB 1E 104K-T	T	113.6/25.5
C5	4030017420	S.CER C1005 CH 1H 470J-T	B	59.9/20.6
C7	4030017460	S.CER C1005 JB 1H 102K-T	B	60.3/13.2
C8	4030016790	S.CER C1005 JB 1E 103K-T	B	18.3/12.2
C10	4030017460	S.CER C10		

[LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C45	4030016790	S.CER C1005 JB 1E 103K-T	B	96.5/5.0
C46	4030016970	S.CER C1005 JB 1E 223K-T	B	56.6/8.1
C47	4030016930	S.CER C1005 JB 1A 104K-T	B	34.9/17.6
C48	4030017760	S.CER C1005 JB 1H 222K-T	B	56.6/7.2
C49	4030016930	S.CER C1005 JB 1A 104K-T	B	109.8/22.7
C51	4030017030	S.CER C1005 JB 1A 273K-T	B	111.4/25.0
C52	4030017420	S.CER C1005 CH 1H 470J-T	T	7.3/27.6
C53	4030017690	S.CER C1005 CH 1H 121J-T	B	86.1/6.7
C54	4030016790	S.CER C1005 JB 1E 103K-T	B	33.4/21.2
C55	4030017620	S.CER C1005 CH 1H 100C-T	B	92.9/10.1
C56	4030017760	S.CER C1005 JB 1H 222K-T	B	32.1/20.8
C57	4030018110	S.CER C1005 JB 1H 272K-T	B	33.4/19.6
C58	4030017780	S.CER C1005 JB 1H 472K-T	T	106.1/17.1
C59	4030017640	S.CER C1005 CH 1H 150J-T	B	94.0/9.5
C60	4030017780	S.CER C1005 JB 1H 472K-T	B	110.7/13.2
C61	4030017780	S.CER C1005 JB 1H 472K-T	T	110.3/12.7
C62	4030016930	S.CER C1005 JB 1A 104K-T	B	110.7/6.5
C64	4030016790	S.CER C1005 JB 1E 103K-T	B	85.9/13.5
C66	4030016790	S.CER C1005 JB 1E 103K-T	B	43.5/15.0
C67	4030019560	S.CER GRM21BB31C106KE15L	T	95.4/17.6
C68	4030016930	S.CER C1005 JB 1A 104K-T	T	99.0/10.9
C69	4030016960	S.CER C1005 JB 1E 183K-T	B	42.6/23.3
C70	4030016790	S.CER C1005 JB 1E 103K-T	T	111.7/24.2
C71	4030016790	S.CER C1005 JB 1E 103K-T	B	40.2/14.1
C73	4030019620	S.CER GRM188B31C225KE14D	B	40.7/13.0
C74	4030018920	S.CER C1005 JB 1H 392K-T	B	20.5/20.5
C75	4030017450	S.CER C1005 JB 1H 271K-T	B	22.6/19.3
C76	4030017040	S.CER C1005 JB 1A 333K-T	B	21.4/22.2
C77	4030019620	S.CER GRM188B31C225KE14D	T	31.3/20.0
C78	4030016790	S.CER C1005 JB 1E 103K-T	B	26.1/14.4
C79	4030017440	S.CER C1005 CH 1H 221J-T	B	21.7/16.0
C80	4030019990	S.CER C1005 JB 1C 104K-T	B	82.7/6.1
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	83.6/7.7
C83	4030016930	S.CER C1005 JB 1A 104K-T	T	29.4/19.5
C85	4030019990	S.CER C1005 JB 1C 104K-T	B	22.1/14.8
C86	4030017460	S.CER C1005 JB 1H 102K-T	B	10.1/23.7
C87	4030018890	S.CER C1005 JB 0J 224K-T	B	108.1/8.0
C88	4030018890	S.CER C1005 JB 0J 224K-T	B	45.2/27.5
C89	4030016930	S.CER C1005 JB 1A 104K-T	B	46.2/15.4
C90	4030017780	S.CER C1005 JB 1H 472K-T	T	100.4/11.6
C91	4030017780	S.CER C1005 JB 1H 472K-T	B	109.4/9.6
C92	4030017780	S.CER C1005 JB 1H 472K-T	T	104.5/10.9
C94	4030017780	S.CER C1005 JB 1H 472K-T	B	110.0/12.3
C95	4030017780	S.CER C1005 JB 1H 472K-T	B	110.0/11.4
C96	4030017780	S.CER C1005 JB 1H 472K-T	B	109.4/10.5
C97	4030017780	S.CER C1005 JB 1H 472K-T	T	106.1/10.7
C99	4030017770	S.CER C1005 JB 1H 332K-T	B	56.8/12.1
C100	4030017720	S.CER C1005 JB 1H 331K-T	B	57.6/10.0
C101	4030016930	S.CER C1005 JB 1A 104K-T	B	53.0/21.9
C102	4030018890	S.CER C1005 JB 0J 224K-T	B	106.9/6.8
C103	4030017460	S.CER C1005 JB 1H 102K-T	B	58.0/13.4
C104	4030017460	S.CER C1005 JB 1H 102K-T	B	111.7/19.4
C105	4030016930	S.CER C1005 JB 1A 104K-T	B	44.4/24.3
C108	4550007080	S.TAN TEESVA C 106M8R	B	9.5/17.4
Eqv.	4550008220	S.TAN F931C106MAA		
C109	4030016970	S.CER C1005 JB 1E 223K-T	B	36.1/20.9
J1	6450002210	CON 3017-8821 <KIN>		
J3	6510028390	S.CON 04-6294-036-000-800	B	66.0/16.9
DS1	5030003530	LCD L1-1207TVM-1 <TES>		
DS3	5040003470	S.LED HT-297UY/YUG <KOU>	T	44.0/20.0
DS5	5040003470	S.LED HT-297UY/YUG <KOU>	T	55.0/20.0
DS6	5040003470	S.LED HT-297UY/YUG <KOU>	T	66.0/20.0
DS7	5040003470	S.LED HT-297UY/YUG <KOU>	T	77.0/20.0
DS8	5040003470	S.LED HT-297UY/YUG <KOU>	T	88.0/20.0
DS9	5040003470	S.LED HT-297UY/YUG <KOU>	T	99.0/20.0
S1	2260002740	S.SWI LS8J2M-T	T	10.0/30.6
S2	2260002740	S.SWI LS8J2M-T	T	101.5/4.8
S3	2260002740	S.SWI LS8J2M-T	T	89.5/4.8
S4	2260002740	S.SWI LS8J2M-T	T	77.5/4.8
S5	2260002740	S.SWI LS8J2M-T	T	65.5/4.8
S6	2260002740	S.SWI LS8J2M-T	T	53.5/4.8
S7	2260002740	S.SWI LS8J2M-T	T	41.5/4.8
S8	2260002740	S.SWI LS8J2M-T	T	10.0/21.3
S9	2250000790	ENC EC12E24204A9		
S10	2260002740	S.SWI LS8J2M-T	T	111.8/4.8
EP1	6910018460	S.BEA MMZ1005Y102C-T	B	15.6/13.2
EP2	6910012350	S.BEA MMZ1608Y 102BT	T	11.5/14.6
EP3	6910018460	S.BEA MMZ1005Y102C-T	B	12.2/15.4
EP4	6910018460	S.BEA MMZ1005Y102C-T	T	9.7/14.4
EP5	6910018460	S.BEA MMZ1005Y102C-T	B	8.4/8.5
EP6	6910018460	S.BEA MMZ1005Y102C-T	B	7.1/8.5
EP7	6910018460	S.BEA MMZ1005Y102C-T	T	6.4/14.7
EP8	6910012350	S.BEA MMZ1608Y 102BT	B	4.6/8.0
EP9	89300084270	LCD SRCN-3251-SP-N-W		

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

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC2	1130011760	S.IC CD4094BPWR	B	44.3/4.4
IC3	1110007720	S.IC AA32416A <SLVJ>	B	95.9/11.4
IC4	1130007021	S.IC TC7S66FU(TE85LF)	T	57.1/17.6
IC5	1110007550	S.IC R2A20178NP	T	74.3/17.2
IC6	1180001252	S.IC TA7808F(TE16L1NQ)	B	10.0/38.9
IC7	1110003091	IC LA4425A-E		
IC8	1180003470	S.REG NJM2835DL1-05-TE1-#ZZZB	B	11.2/48.5
IC9	1110006470	S.IC LMV3241PWR	T	77.9/26.5
IC10	1110006870	S.IC UPC2709TB-E3	B	40.7/26.3
Q1	1530002851	S.TRA 2SC4116-BL(TE85RF)	T	88.4/14.8
Q2	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	15.5/30.8
Q3	1510000591	S.TRA 2SA1362-Y(TE85LF)	B	15.8/33.8
Q4	1590004050	S.TRA LDTA144EET1G <SLVJ>	T	99.3/3.9
Q5	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	35.0/29.9
Q6	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	29.7/15.6
Q7	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	31.7/17.7
Q8	1590004040	S.TRA LDTA123YET1G <SLVJ>	B	31.8/21.3
Q9	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	88.9/6.5
Q10	1560000541	S.FET 2SK880-Y(T5RICOMF)	T	56.9/13.1
Q11	1590004070	S.TRA LDTC144EET1G <SLVJ>	T	43.9/11.9
Q12	1590004040	S.TRA LDTA123YET1G <SLVJ>	B	11.0/29.4
Q13	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	34.8/18.7
Q14	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	36.3/21.1
Q15	1590003490	S.TRA DTA113ZE TL	B	11.0/31.5
Q16	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	12.3/33.6
Q17	1530002931	S.TRA 2SC4228-T1 Y45 (R45)	B	34.2/25.7
Q20	1530003091	S.TRA 2SC4226-T1 Y25 (R25)	B	21.1/4.3
Q21	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	T	22.6/45.2
Q22	1560001241	S.FET RD01MUS1-T113	T	30.4/49.4
Q23	1520000201	S.TRA 2SB798-T1-AZ DK	B	19.0/52.5
Eqv.	1520000460	S.TRA 2SB1132 T100 R		
Eqv.	1520000910	S.TRA 2SB1132L-R-AB3-R <SLVJ>		
Q24	1520000201	S.TRA 2SB798-T1-AZ DK	B	19.0/44.7
Eqv.	1520000460	S.TRA 2SB1132 T100 R		
Eqv.	1520000910	S.TRA 2SB1132L-R-AB3-R <SLVJ>		
Q25	1590004690	S.TRA LDTC143ZET1G <SLVJ>	B	21.1/39.0
Q26	1560001770	S.FET RD04HMS2-T112	T	29.6/55.9
Q27	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	86.7/13.6
Q28	1580000731	S.FET 3SK293(TE85LF)	B	82.4/21.6
Q29	1560001780	S.FET RD70HUF2-T1105	B	60.0/54.7
Q31	1590004050	S.TRA LDTA144EET1G <SLVJ>	T	71.1/22.7
Q32	1580000731	S.FET 3SK293(TE85LF)	B	102.1/22.6
Q33	1560001790	S.FET LN2306LT1G <SLVJ>	T	27.2/9.8
Q34	1590004070	S.TRA LDTC144EET1G <SLVJ>	T	29.0/7.0
Q35	1560001790	S.FET LN2306LT1G <SLVJ>	T	25.5/6.6
Q36	1560001850	S.FET RQK0303MGDQA	T	21.1/23.0
Q37	1560001850	S.FET RQK0303MGDQA	T	20.4/26.4
Q38	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	23.8/23.9
Q39	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	10.8/27.4
D1	1750000571	S.DIO 1SS381(TPH3F)	T	104.2/9.2
Eqv.	1750001700	S.DIO HSC277TRF-E		
Eqv.	1750001790	S.DIO 1SS390 TE61		
Eqv.	1750002480	S.DIO 1SS390 <KMC>		
D2	1750000571	S.DIO 1SS381(TPH3F)	T	108.6/9.8
Eqv.	1750001700	S.DIO HSC277TRF-E		
Eqv.	1750001790	S.DIO 1SS390 TE61		
Eqv.	1750002480	S.DIO 1SS390 <KMC>		
D3	1750001810	S.DIO L1SS400T1G <SLVJ>	B	55.4/20.0
D4	1750001810	S.DIO L1SS400T1G <SLVJ>	B	33.1/30.0
D5	1750000571	S.DIO 1SS381(TPH3F)	T	99.7/7.7
Eqv.	1750001700	S.DIO HSC277TRF-E		
Eqv.	1750001790	S.DIO 1SS390 TE61		
Eqv.	1750002480	S.DIO 1SS390 <KMC>		
D6	1750000571	S.DIO 1SS381(TPH3F)	T	99.7/10.2
Eqv.	1750001700	S.DIO HSC277TRF-E		
Eqv.	1750001790	S.DIO 1SS390 TE61		
Eqv.	1750002480	S.DIO 1SS390 <KMC>		
D7	1750000721	S.VAR HVC375BTRF-E	B	43.1/15.8
D8	1750000721	S.VAR HVC375BTRF-E	B	44.9/13.6
D9	1750001570	S.VAR HVL355CMKRF-E	B	41.5/13.4
D10	1750000721	S.VAR HVC375BTRF-E	B	43.4/20.2
D11	1750000721	S.VAR HVC375BTRF-E	B	43.9/18.4
D12	1750001910	S.DIO HVD144AKRF-E	B	45.3/29.1
D13	1750001910	S.DIO HVD144AKRF-E	B	43.7/29.8
D16	1790001950	S.VAR VC060318A400RP	T	37.0/67.9
D17	1750000370	S.DIO DA221 TL	B	85.2/9.1
Eqv.	1750001820	S.DIO LRB706F-40T1G <SLVJ>		
D19	1710001300	DIO P6KA18AHE3/54 <TOMEN>		
D22	1750000711	S.VAR HVC350BTRF-E	B	95.0/20.4
D23	1750000711	S.VAR HVC350BTRF-E	B	112.4/20.8
D24	1750002190	S.DIO JDP2S12CR(TE85LQ)	T	101.2/36.2
D25	1750002190	S.DIO JDP2S12CR(TE85LQ)	T	101.2/34.1
D26	1750001810	S.DIO L1SS400T1G <SLVJ>	B	109.6/25.1
D27	1750000370	S.DIO DA221 TL	B	104.9/43.4
Eqv.	1750001820	S.DIO LRB706F-40T1G <SLVJ>		
D28	1750001810	S.DIO L1SS400T1G <SLVJ>	T	108.0/20.4
D29	1710000871	S.DIO HVU131TRF-E	T	112.9/22.7
D30	1710000871	S.DIO HVU131TRF-E	T	113.3/32.5
D31	1710000871	S.DIO HVU131TRF-E	T	113.3/30.8
D32	1710000871	S.DIO HVU131TRF-E	T	113.3/29.0
D33	1750000370	S.DIO DA221 TL	B	99.5/47.1
Eqv.	1750001820	S.DIO LRB706F-40T1G <SLVJ>		
D34	1750001780	S.VAR HVB350BYPTL-E	B	90.5/20.0
D35	1750001810	S.DIO L1SS400T1G <SLVJ>	T	99.8/22.5
F11	2020002380	CER LT450FW <JJE>		
F12	2020002510	CER LTW450HT <JJE>		
F13	2030000870	S.MON MFT46.3P3 46.350 MHz (FL-442)	B	80.6/14.0

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
R216	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	19.4/21.5
R217	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	23.3/22.2
R218	7030000100	S.RES MCR10EZHJ 4.7 (4R7)	B	14.3/18.9
R220	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	95.9/10.2
R225	7030010040	S.RES ERJ2GEJ-JPW	T	75.4/29.7
R230	7030010040	S.RES ERJ2GEJ-JPW	B	38.8/24.5
R231	7030005580	S.RES ERJ2GEJ 560 X (56)	B	38.2/27.7
R233	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	71.5/9.0
R234	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	24.3/5.6
R235	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	64.8/44.3
C2	4030017460	S.CER C1005 JB 1H 102K-T	B	53.8/8.3
C3	4030020000	S.CER C1005 JB 1A 105K-T	T	70.0/14.0
C4	4030020000	S.CER C1005 JB 1A 105K-T	T	69.1/14.0
C8	4030019990	S.CER C1005 JB 1C 104K-T	T	65.5/11.1
C9	4030017430	S.CER C1005 CH 1H 101J-T	T	86.3/16.5
C10	4030017460	S.CER C1005 JB 1H 102K-T	B	10.6/34.3
C11	4030019990	S.CER C1005 JB 1C 104K-T	B	15.5/28.9
C12	4030016790	S.CER C1005 JB 1E 103K-T	T	87.9/10.6
C13	4030017460	S.CER C1005 JB 1H 102K-T	T	61.2/12.9
C14	4030017380	S.CER C1005 CH 1H 050B-T	T	91.4/14.3
C15	4030019560	S.CER GRM21BB31C106KE15L	B	18.4/34.8
C16	4030016790	S.CER C1005 JB 1E 103K-T	T	87.9/13.0
C17	4030017580	S.CER C1005 CH 1H 060C-T	T	91.9/15.5
C18	4030017500	S.CER C1005 CH 1H 560J-T	T	94.3/14.3
C19	4030016790	S.CER C1005 JB 1E 103K-T	B	66.8/8.3
C21	4030017620	S.CER C1005 CH 1H 100C-T	T	61.2/15.6
C22	4030017460	S.CER C1005 JB 1H 102K-T	B	53.3/5.3
C23	4030017460	S.CER C1005 JB 1H 102K-T	B	68.3/5.3
C24	4030017460	S.CER C1005 JB 1H 102K-T	B	56.1/13.2
C26	4030017360	S.CER C1005 CH 1H 030B-T	T	94.6/15.5
C27	4030017460	S.CER C1005 JB 1H 102K-T	B	61.8/8.3
C29	4030016930	S.CER C1005 JB 1A 104K-T	B	40.9/7.7
C30	4030016950	S.CER C1005 JB 1A 473K-T	T	111.5/9.1
C31	4030017460	S.CER C1005 JB 1H 102K-T	B	65.8/5.3
C33	4030017460	S.CER C1005 JB 1H 102K-T	B	55.8/5.3
C34	4030017460	S.CER C1005 JB 1H 102K-T	B	31.2/29.3
C35	4030017730	S.CER C1005 JB 1H 471K-T	B	54.6/21.4
C36	4030017460	S.CER C1005 JB 1H 102K-T	B	51.7/17.1
C37	4030017420	S.CER C1005 CH 1H 470J-T	B	55.8/21.0
C39	4030019990	S.CER C1005 JB 1C 104K-T	B	50.5/16.0
C40	4030017460	S.CER C1005 JB 1H 102K-T	B	29.4/13.3
C41	4030019990	S.CER C1005 JB 1C 104K-T	B	60.5/20.1
C42	4510009950	S.ELE EEEHC1C470P	T	29.6/32.5
C43	4030020000	S.CER C1005 JB 1A 105K-T	B	51.7/13.9
C45	4030017460	S.CER C1005 JB 1H 102K-T	B	37.1/30.8
C46	4030020000	S.CER C1005 JB 1A 105K-T	B	50.5/15.1
C49	4030019990	S.CER C1005 JB 1C 104K-T	T	102.2/10.0
C50	4030019990	S.CER C1005 JB 1C 104K-T	T	98.6/10.5
C51	4030019990	S.CER C1005 JB 1C 104K-T	B	97.1/8.1
C52	4030017720	S.CER C1005 JB 1H 331K-T	B	99.3/6.9
C53	4030017720	S.CER C1005 JB 1H 331K-T	B	98.4/6.9
C54	4030016790	S.CER C1005 JB 1E 103K-T	T	96.2/15.1
C55	4030019560	S.CER GRM21BB31C106KE15L	T	91.6/10.7
C56	4030020000	S.CER C1005 JB 1A 105K-T	B	99.1/15.1
C57	4030017460	S.CER C1005 JB 1H 102K-T	T	90.0/10.1
C58	4030017460	S.CER C1005 JB 1H 102K-T	B	93.7/6.5
C59	4030017460	S.CER C1005 JB 1H 102K-T	T	57.1/15.7
C60	4030017460	S.CER C1005 JB 1H 102K-T	B	94.2/7.7
C61	4030019990	S.CER C1005 JB 1C 104K-T	B	87.3/6.5
C62	4030017460	S.CER C1005 JB 1H 102K-T	B	91.6/12.6
C63	4030019990	S.CER C1005 JB 1C 104K-T	T	56.3/19.8
C64	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/14.7
C65	4030019990	S.CER C1005 JB 1C 104K-T	T	58.3/15.3
C66	4030019990	S.CER C1005 JB 1C 104K-T	B	91.3/7.7
C67	4550000530	S.TAN TEESVA 1V 104M8R	T	53.5/14.1
Eqv.	4550008210	S.TAN 267M3502 104MR		
C68	4030017460	S.CER C1005 JB 1H 102K-T	T	59.1/12.4
C69	4030017430	S.CER C1005 CH 1H 101J-T	B	91.6/10.2
C70	4030017040	S.CER C1005 JB 1A 333K-T	T	95.9/11.1
C71	4030017460	S.CER C1005 JB 1H 102K-T	T	58.3/19.4
C74	4550002890	S.TAN TEESVA 1A 225M8R	T	49.3/14.1
Eqv.	4550007400	S.TAN F931A225MAABMA		
C75	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/12.3
C76	4030017420	S.CER C1005 CH 1H 470J-T	T	43.6/17.6
C77	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/14.1
C78	4030017420	S.CER C1005 CH 1H 470J-T	T	47.1/19.4
C79	4030020000	S.CER C1005 JB 1A 105K-T	T	44.5/15.2
C80	4550000560	S.TAN TEESVA 1V 334M8R	B	46.6/14.9
Eqv.	4550007550	S.TAN F931V334MAABMA		
C81	4030016790	S.CER C1005 JB 1E 103K-T	B	91.0/13.8
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	13.0/29.4
C83	4030017440	S.CER C1005 CH 1H 221J-T	T	44.5/13.6
C85	4030017750	S.CER C1005 JB 1H 122K-T	B	43.3/13.2
C86	4030017530	S.CER C1005 CH 1H 0R5B-T	B	41.4/15.1
C87	4030017460	S.CER C1005 JB 1H 102K-T	B	34.0/18.5
C88	4030017580	S.CER C1005 CH 1H 060C-T	B	39.2/20.2
C89	4030017580	S.CER C1005 CH 1H 060C-T	B	37.9/14.8
C90	4030017460	S.CER C1005 JB 1H 102K-T	B	92.4/7.0
C91	4030016930	S.CER C1005 JB 1A 104K-T	T	73.4/16.9
C92	4030019990	S.CER C1005 JB 1C 104K-T	B	33.0/23.3
C93	4030017590	S.CER C1005 CH 1H 070C-T	B	34.9/13.8
C94	4030017420	S.CER C1005 CH 1H 470J-T	B	33.7/13.4
C95	4030017380	S.CER C1005 CH 1H 050B-T	B	36.3/19.2
C96	4030018010	S.CER C1005 CH 1H 360J-T	B	35.8/18.0
C97	4030016790	S.CER C1005 JB 1E 103K-T	T	72.7/7.4
C98	4030016930	S.CER C1005 JB 1A 104K-T	T	75.7/17.3
C99	4030017460	S.CER C1005 JB 1H 102K-T	B	37.9/15.7
C100	4030017460	S.CER C1005 JB 1H 102K-T	B	39.2/21.1
C101	4030017540	S.CER C1005 CH 1H R75B-T	B	34.5/20.6
C102	4030019990	S.CER C1005 JB 1C 104K-T	B	37.0/16.6
C103	4030017460	S.CER C1005 JB 1H 102K-T	B	34.2/22.9
C104	4030017540	S.CER C1005 CH 1H R75B-T	B	33.1/15.3
C105	4030017460	S.CER C1005 JB 1H 102K-T	B	32.5/25.2

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

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C106	4030017460	S.CER C1005 JB 1H 102K-T	B	40.0/22.7
C112	4030017460	S.CER C1005 JB 1H 102K-T	B	46.9/25.9
C113	4030017460	S.CER C1005 JB 1H 102K-T	B	39.4/28.0
C116	4030019560	S.CER GRM21BB31C106KE15L	T	78.0/6.1
C117	4030017460	S.CER C1005 JB 1H 102K-T	B	42.7/26.6
C120	4030017460	S.CER C1005 JB 1H 102K-T	B	75.6/6.6
C122	4030017630	S.CER C1005 CH 1H 120J-T	T	43.1/28.0
C123	4030017630	S.CER C1005 CH 1H 120J-T	B	43.1/28.9
C124	4030017460	S.CER C1005 JB 1H 102K-T	B	16.8/37.1
C125	4030017460	S.CER C1005 JB 1H 102K-T	B	44.8/26.8
C126	4510010010	S.ELE 25 CE 220 LX	T	9.5/34.2
C127	4030017460	S.CER C1005 JB 1H 102K-T	T	20.5/39.6
C128	4030017460	S.CER C1005 JB 1H 102K-T	T	22.9/39.6
C129	4510010010	S.ELE 25 CE 220 LX	T	18.8/34.2
C130	4030017460	S.CER C1005 JB 1H 102K-T	B	16.8/40.0
C131	4030017460	S.CER C1005 JB 1H 102K-T	B	25.5/2.4
C132	4030017460	S.CER C1005 JB 1H 102K-T	B	17.7/40.0
C134	4030017650	S.CER C1005 CH 1H 270J-T	T	22.0/42.9
C135	4030018900	S.CER C1005 JB 0J 474K-T	B	18.3/4.1
C137	4030017460	S.CER C1005 JB 1H 102K-T	T	36.0/49.8
C138	4030017460	S.CER C1005 JB 1H 102K-T	T	19.8/49.6
C139	4030017460	S.CER C1005 JB 1H 102K-T	T	24.7/43.6
C140	4030017780	S.CER C1005 JB 1H 472K-T	B	23.2/4.3
C141	4030018900	S.CER C1005 JB 0J 474K-T	B	22.7/3.1
C142	4030017430	S.CER C1005 CH 1H 101J-T	T	23.1/47.0
C143	4030017420	S.CER C1005 CH 1H 470J-T	B	36.3/50.7
C144	4030017730	S.CER C1005 JB 1H 471K-T	B	21.1/6.4
C145	4030016790	S.CER C1005 JB 1E 103K-T	T	33.9/48.3
C148	4030017460	S.CER C1005 JB 1H 102K-T	T	34.1/46.2
C149	4030016930	S.CER C1005 JB 1A 104K-T	T	73.7/22.8
C150	4510010010	S.ELE 25 CE 220 LX	T	32.0/14.5
C151	4030017460	S.CER C1005 JB 1H 102K-T	B	22.7/46.2
C152	4030017460	S.CER C1005 JB 1H 102K-T	T	23.2/51.5
C156	4030017460	S.CER C1005 JB 1H 102K-T	B	13.3/42.7
C157	4030017460	S.CER C1005 JB 1H 102K-T	B	85.2/25.2
C159	4030017420	S.CER C1005 CH 1H 470J-T	T	33.9/51.0
C160	4030017430	S.CER C1005 CH 1H 101J-T	T	27.7/52.0
C161	4030017460	S.CER C1005 JB 1H 102K-T	T	25.1/50.3
C162	4030019990	S.CER C1005 JB 1C 104K-T	B	88.6/14.6
C163	4030017460	S.CER C1005 JB 1H 102K-T	T	33.9/51.9
C164	4510010230	S.ELE 10 CE 1000 LX	T	12.6/23.5
C165	4030019560	S.CER GRM21BB31C106KE15L	B	13.6/44.1
C166	4030017460	S.CER C1005 JB 1H 102K-T	B	87.1/10.3
C167	4030017600	S.CER C1005 CH 1H 080C-T	B	87.4/11.6
C170	4030019990	S.CER C1005 JB 1C 104K-T	B	7.9/22.2
C171	4030017460	S.CER C1005 JB 1H 102K-T	B	46.7/30.9
C172	4030017460	S.CER C1005 JB 1H 102K-T	T	36.9/66.9
C174	4030016790	S.CER C1005 JB 1E 103K-T	B	86.3/15.4
C175	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/11.0
C177	4030017460	S.CER C1005 JB 1H 102K-T	B	14.6/48.5
C178	4030017460	S.CER C1005 JB 1H 102K-T	T	13.1/51.5
C179	4030017460	S.CER C1005 JB 1H 102K-T	T	37.9/62.1
C182	4030017730	S.CER C1005 JB 1H 471K-T	T	17.3/52.2
C184	4030017460	S.CER C1005 JB 1H 102K-T	T	17.3/53.1
C187	4030017580	S.CER C1005 CH 1H 060C-T	B	84.3/15.3
C189	4030007130	S.CER C1608 CH 1H 101J-T	B	40.5/52.1
C190	4030007130	S.CER C1608 CH 1H 101J-T	B	40.5/57.2
C191	4030017370	S.CER C1005 CH 1H 3R5B-T	B	80.4/23.3
C192	4030009980	S.CER C1608 JB 1H 152K-T	B	45.6/53.9
C193	4030009980	S.CER C1608 JB 1H 152K-T	B	45.6/55.5
C194	4030016790	S.CER C1005 JB 1E 103K-T	B	77.4/16.8
C195	4030017340	S.CER C1005 CH 1H 010B-T	B	79.8/18.9
C196	4030017460	S.CER C1005 JB 1H 102K-T	B	77.5/22.4
C197	4030011600	S.CER C1608 JB 1E 104K-T	T	48.7/48.1
C198	4030016790	S.CER C1005 JB 1E 103K-T	T	84.1/23.7
C199	4030017390	S.CER C1005 CH 1H 180J-T	B	79.5/21.0
C200	4030017460	S.CER C1005 JB 1H 102K-T	B	82.4/19.5
C201	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/52.5
C202	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/56.9
C204	4030011600	S.CER C1608 JB 1E 104K-T	T	48.6/61.4
C205	4030017460	S.CER C1005 JB 1H 102K-T	B	82.8/23.3
C208	4030020220	S.CER GQM2192C1H470JB01D	B	74.0/40.7
C209	4030017380	S.CER C1005 CH 1H 050B-T	B	87.3/22.5
C210	4030017460	S.CER C1005 JB 1H 102K-T	T	51.2/48.6
C211	4030019990	S.CER C10		

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C251	4030016790	S.CER C1005 JB 1E 103K-T	B	100.4/20.5
C254	4030011240	S.CER GRM31M2C2H470JV01L (GRM42-6 CH)	T	80.2/47.6
C255	4030017460	S.CER C1005 JB 1H 102K-T	B	81.6/31.8
C256	4030017460	S.CER C1005 JB 1H 102K-T	B	102.2/20.5
C257	4030017460	S.CER C1005 JB 1H 102K-T	T	81.3/30.6
C258	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/22.0
C260	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/49.8
C261	4030020000	S.CER C1005 JB 1A 105K-T	B	97.9/22.0
C262	4030017460	S.CER C1005 JB 1H 102K-T	B	106.7/20.4
C263	4030017460	S.CER C1005 JB 1H 102K-T	T	82.5/27.6
C265	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/47.7
C266	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/45.6
C267	4030017460	S.CER C1005 JB 1H 102K-T	T	80.1/30.2
C269	4030019990	S.CER C1005 JB 1C 104K-T	T	82.3/26.0
C270	4030017640	S.CER C1005 CH 1H 150J-T	B	106.3/23.4
C271	4030017460	S.CER C1005 JB 1H 102K-T	T	78.9/30.6
C272	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/43.5
C274	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/41.4
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	86.4/27.9
C276	4030017460	S.CER C1005 JB 1H 102K-T	B	112.0/19.5
C277	4030017460	S.CER C1005 JB 1H 102K-T	T	84.7/26.2
C278	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/39.3
C279	4030017680	S.CER C1005 CH 1H 820J-T	B	110.8/21.5
C280	4030017460	S.CER C1005 JB 1H 102K-T	T	89.0/37.7
C281	4030018940	S.CER GRM31A7U2J331JW31D	T	98.1/35.9
C282	4030018940	S.CER GRM31A7U2J331JW31D	T	96.0/35.9
C283	4030018940	S.CER GRM31A7U2J331JW31D	T	93.7/35.9
C284	4030017460	S.CER C1005 JB 1H 102K-T	T	68.7/24.3
C285	4030019990	S.CER C1005 JB 1C 104K-T	T	86.4/28.8
C287	4030017380	S.CER C1005 CH 1H 050B-T	B	110.8/23.1
C288	4030019420	S.CER GRM31A7U2J102JW31D	T	104.3/32.0
C291	4030011170	S.CER GRM31M2C2H180JV01L (GRM42-6 CH)	B	104.3/34.6
C292	4030017460	S.CER C1005 JB 1H 102K-T	B	111.2/26.3
C293	4030017550	S.CER C1005 CH 1H 1R5B-T	T	110.2/23.1
C295	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	109.1/41.9
C296	4030007020	S.CER C1608 CH 1H 120J-T	B	104.7/41.5
C298	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	B	104.3/39.8
C299	4030017460	S.CER C1005 JB 1H 102K-T	B	101.9/42.4
C300	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	B	100.3/51.6
C302	4030017390	S.CER C1005 CH 1H 180J-T	T	108.8/26.9
C303	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	103.4/47.8
C304	4030007020	S.CER C1608 CH 1H 120J-T	B	99.4/49.4
C305	4030011050	S.CER GRM31M3C2H3R0CY21L (GRM42-6 C.J)	T	98.7/29.9
C306	4030011210	S.CER GRM31M2C2H330JV01L (GRM42-6 CH)	B	100.3/56.9
C307	4030011160	S.CER GRM31M2C2H150JV01L (GRM42-6 CH)	B	104.2/63.1
C308	4030017450	S.CER C1005 JB 1H 271K-T	B	98.6/4.1
C309	4030017460	S.CER C1005 JB 1H 102K-T	T	97.9/1.2
C310	4030019990	S.CER C1005 JB 1C 104K-T	T	108.0/8.8
C311	4030019990	S.CER C1005 JB 1C 104K-T	T	99.7/5.6
C312	4030019990	S.CER C1005 JB 1C 104K-T	T	100.0/11.8
C313	4030019990	S.CER C1005 JB 1C 104K-T	T	111.5/10.0
C314	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/48.9
C315	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/60.5
C319	4510010010	S.ELE 25 CE 220 LX	T	22.4/16.6
C321	4030020000	S.CER C1005 JB 1A 105K-T	T	23.2/52.4
C322	4030019990	S.CER C1005 JB 1C 104K-T	B	14.6/16.5
C323	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	T	86.3/45.6
C332	4550007090	S.TAN TEESVA 1A 226M8R	T	68.5/10.7
Eqv.	4550008160	S.TAN F931A226MAA		
C333	4030016970	S.CER C1005 JB 1E 223K-T	B	25.6/3.6
C334	4030019460	S.CER C1608 JB 0J 106M-T	T	71.7/16.4
J1	6510028390	S.CON 04-6294-036-000-800	T	60.0/6.8
J2	6510014961	S.CON B2B-ZR-SM4-TF(LF)(SN)	T	8.9/56.5
J3	6510025940	CON PJ-3047S <XIN>		
W1	8900011882	CAB OPC-1210A-1(P0.5N36L70) <TJM>		
W2	7030012290	JUM RDS2T0R0		
W6	8900015130	CAB OPC-1131A <TJM>		
EP3	6910018460	S.BEA MMZ1005Y102C-T	T	24.8/51.5
EP4	6910014730	S.BEA MPZ2012S331A-T	T	34.7/64.6
EP5	6910020610	S.BEA BLM15BD102SN1D	B	45.7/26.3

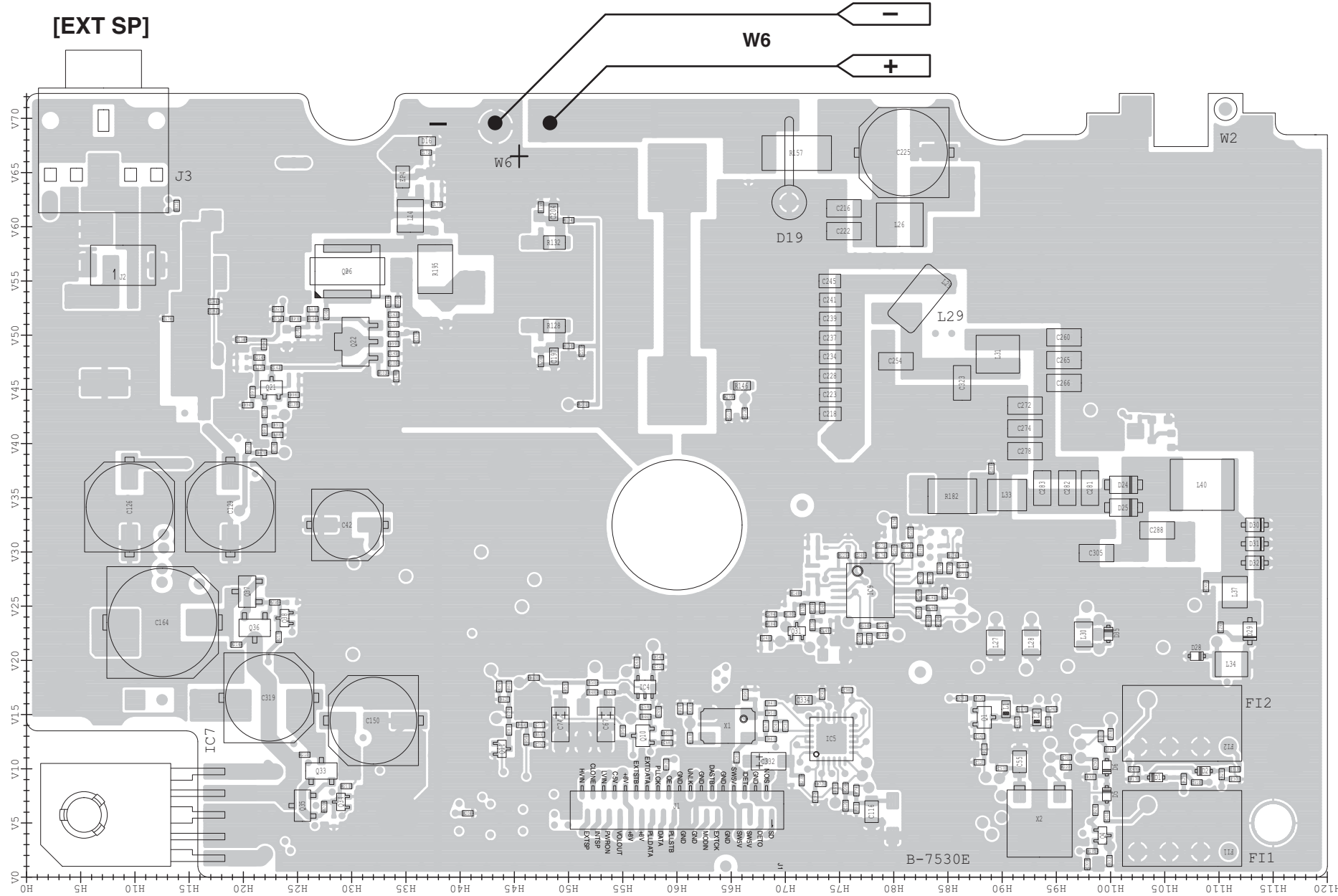
Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

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

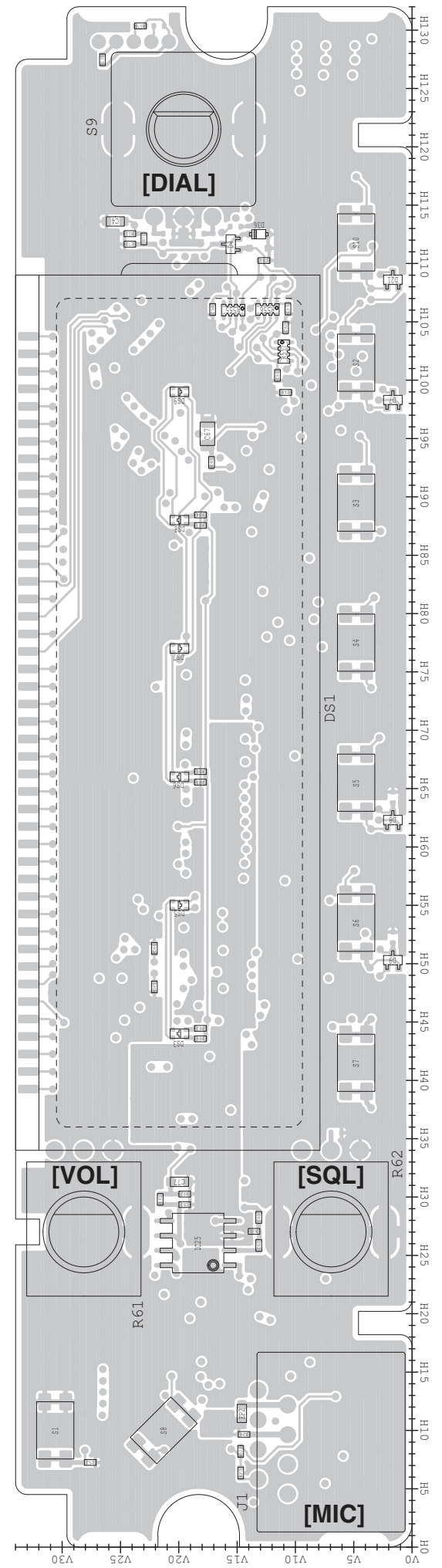
# BOARD LAYOUTS

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

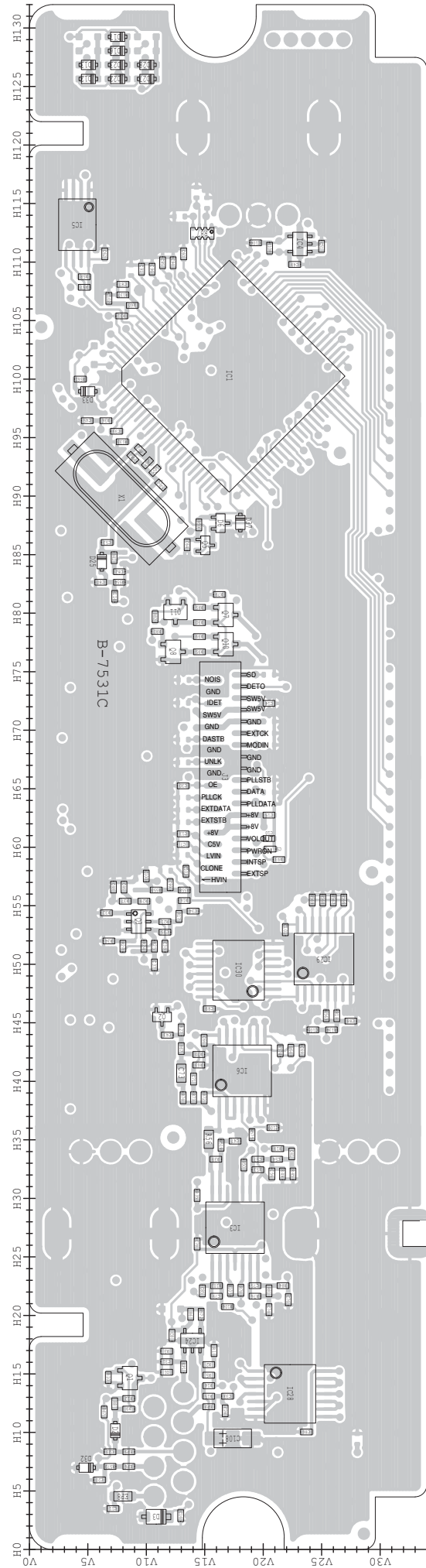
## • MAIN UNIT (TOP VIEW)



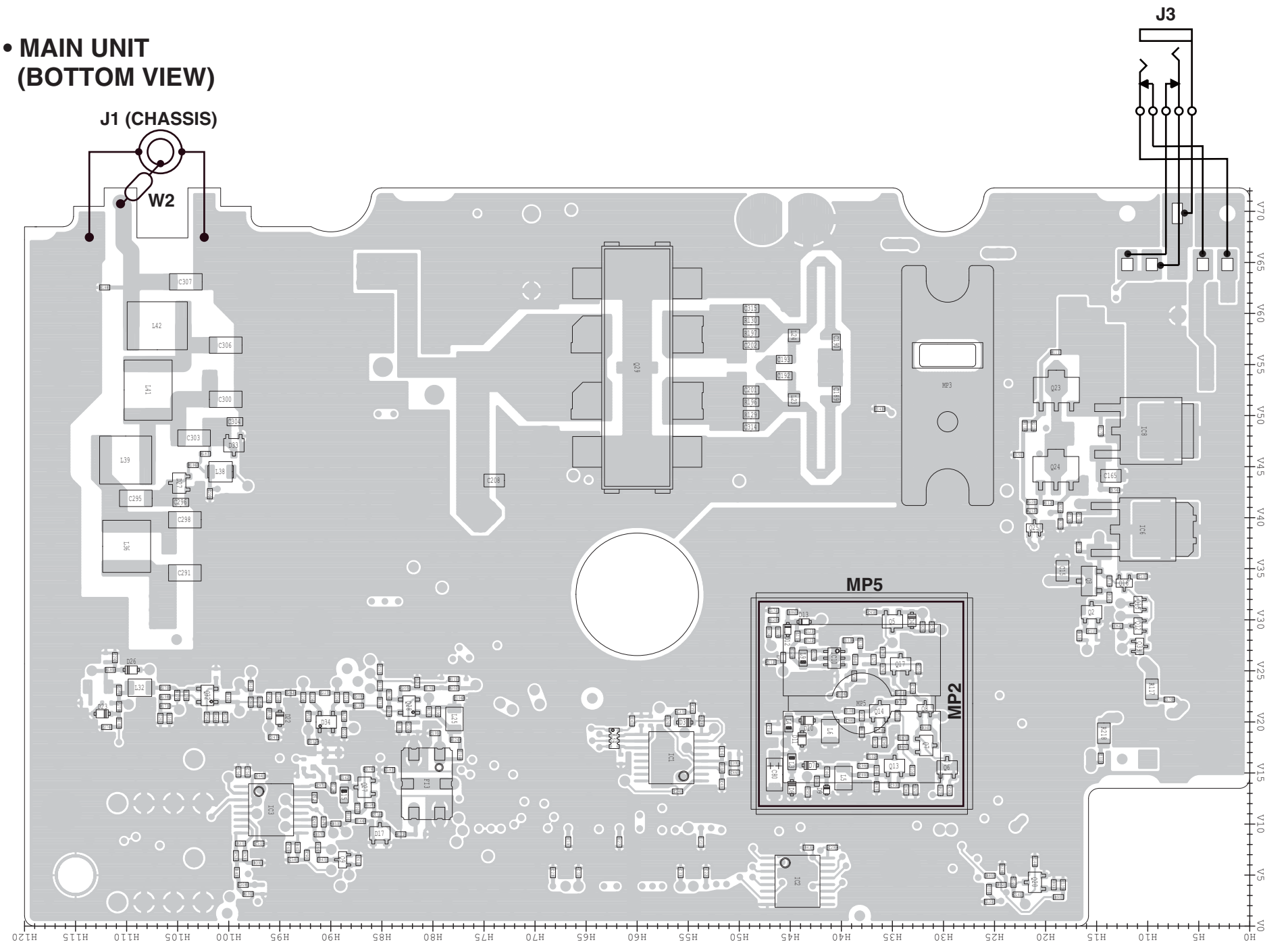
## • LOGIC UNIT (TOP VIEW)



• LOGIC UNIT (BOTTOM VIEW)

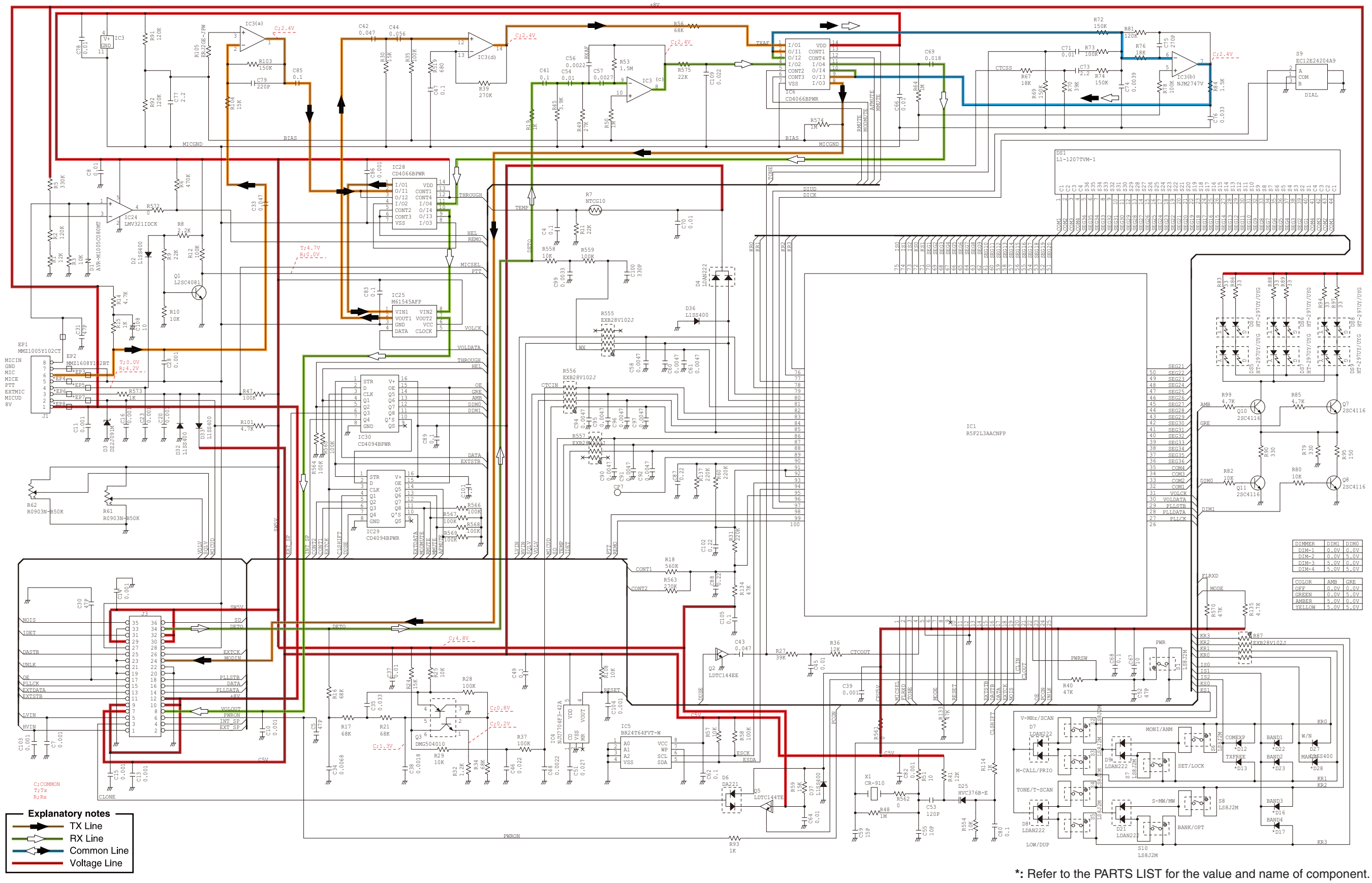


• MAIN UNIT (BOTTOM VIEW)

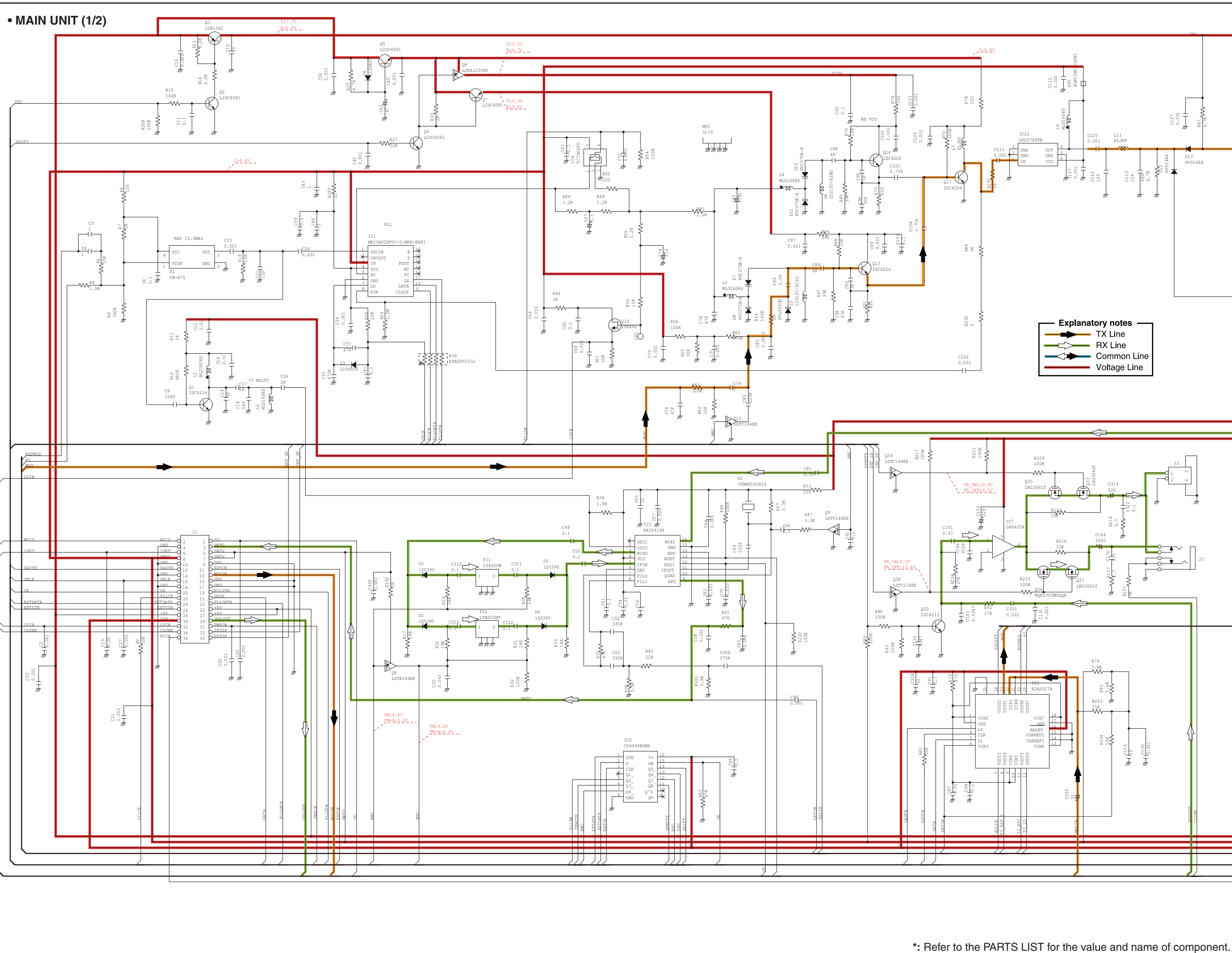


# VOLTAGE DIAGRAM

## • LOGIC UNIT



• MAIN UNIT (1/2)

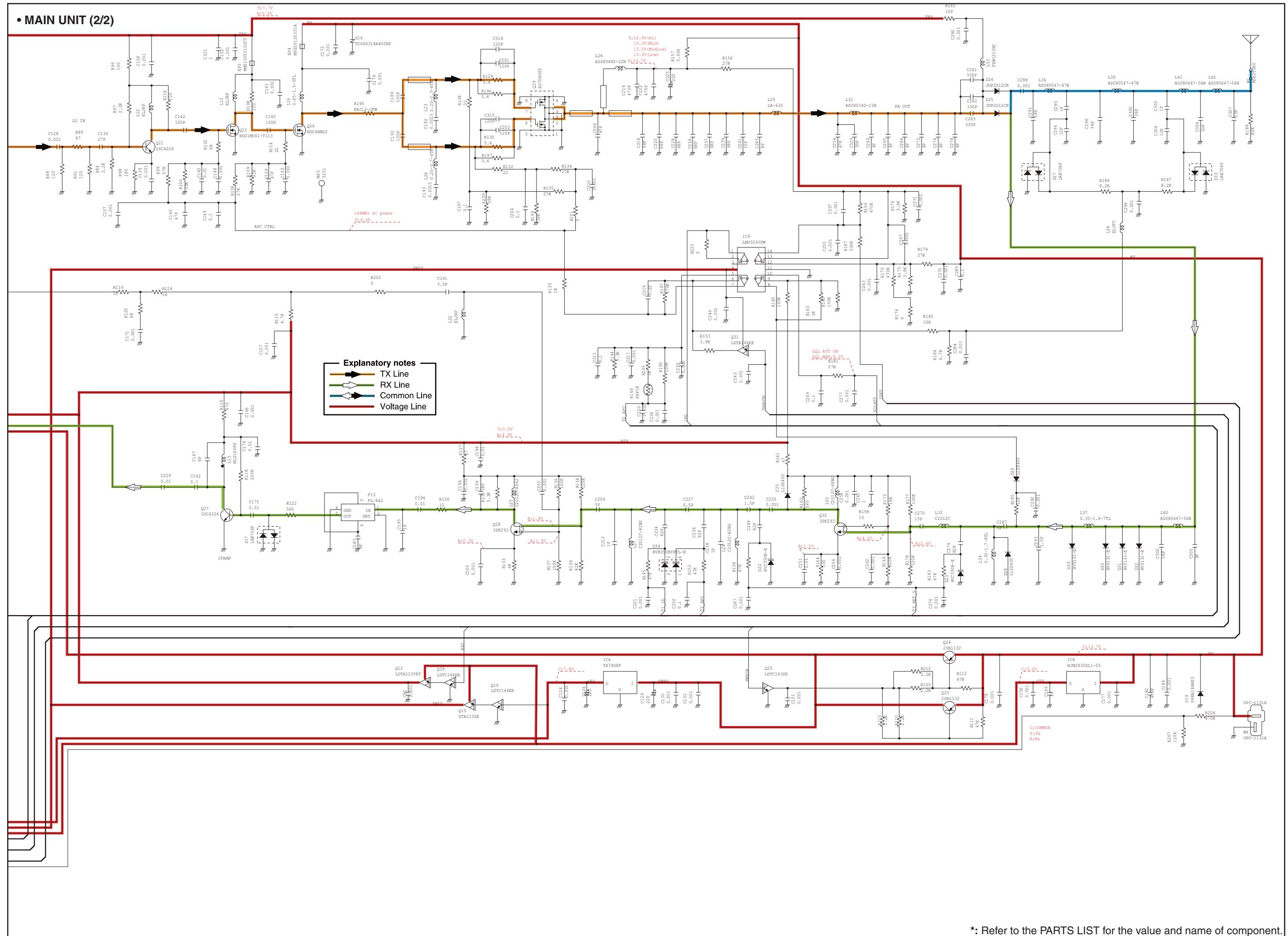


**Explanatory notes**

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

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

• MAIN UNIT (2/2)



**Explanatory notes**

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

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

Feb. 2012



# SERVICE MANUAL ADDENDUM

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## IC-2300H

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# PARTS LIST

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC3	1110006470	S.IC LMV324IPWR	B	27.5/17.6
IC4	1110007620	S.IC NJU7704F3-42A-TE1-#ZZZB	B	111.6/23.2
IC5	1130016260	S.IC BR24T64FVT-WE2	B	113.2/4.1
IC6	1130011770	S.IC CD4066BPWR	B	40.9/18.2
IC24	1110006490	S.IC LMV321IDCKR	B	17.9/14.0
IC25	1110007200	S.IC M61545AFP#DFOR	T	26.1/18.4
IC28	1130011770	S.IC CD4066BPWR	B	13.3/22.3
IC29	1130011760	S.IC CD4094BPWR	B	50.5/25.2
IC30	1130011760	S.IC CD4094BPWR	B	49.5/17.9
Q1	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	14.7/8.6
Q2	1590004070	S.TRA LDTCL44EET1G <SLVJ>	B	45.5/11.4
Q3	1590004390	S.TRA DMG504010R	B	53.7/9.4
Q5	1590004100	S.TRA LDTCL44TET1G <SLVJ>	B	85.8/15.1
Q7	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	79.9/16.8
Q8	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	76.7/12.3
Q10	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	77.4/16.8
Q11	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	80.1/12.5
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	15.2/11.8
D2	1750001810	S.DIO L1SS400T1G <SLVJ>	B	10.2/7.4
D3	1750002040	S.ZEN DZJ091MOL	B	2.8/10.9
D4	1750001850	S.DIO LDAN222T1G <SLVJ>	T	111.7/15.6
D6	1750000370	S.DIO DA221 TL	B	87.7/16.4
Eqv.	1750001820	S.DIO LRB706F-40T1G <SLVJ>		
D7	1750001850	S.DIO LDAN222T1G <SLVJ>	T	98.3/1.7
D8	1750001850	S.DIO LDAN222T1G <SLVJ>	T	62.3/1.7
D9	1750001850	S.DIO LDAN222T1G <SLVJ>	T	50.3/1.7
D12	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	125.7/5.1
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]		
D13	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	126.9/5.1
	1750001810	S.DIO L1SS400T1G <SLVJ> [USA]		
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]		
D16	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-01]	B	128.1/7.6
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-02]		
D17	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	129.3/7.6
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]		
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-01]		
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-02]		
D21	1750001850	S.DIO LDAN222T1G <SLVJ>	T	108.6/1.7
D22	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	125.7/7.6
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-01]		
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-02]		
D23	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	126.9/7.6
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]		
D25	1750000771	S.VAR HVC376BTRF-E	B	84.4/6.2
D27	1750001810	S.DIO L1SS400T1G <SLVJ>	B	125.7/10.1
D28	1750001810	S.DIO L1SS400T1G <SLVJ> [TPE]	B	126.9/10.1
	1750001810	S.DIO L1SS400T1G <SLVJ> [USA]		
	1750001810	S.DIO L1SS400T1G <SLVJ> [KOR]		
	1750001810	S.DIO L1SS400T1G <SLVJ> [EXP-02]		
D32	1750001810	S.DIO L1SS400T1G <SLVJ>	B	7.0/4.9
D33	1750001810	S.DIO L1SS400T1G <SLVJ>	B	99.0/5.0
D36	1750001810	S.DIO L1SS400T1G <SLVJ>	T	112.5/13.2
D37	1750001810	S.DIO L1SS400T1G <SLVJ>	B	87.8/18.1
X1	6050013180	S.XTA CR-910(HC-49US/9.8304 MHz) <JJE>	B	89.8/7.9
R1	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	17.0/15.8
R2	7030005310	S.RES ERJ2GEJ 124 X (120K)	B	15.8/15.4
R3	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	17.0/11.8
R5	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	14.9/15.4
R6	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	20.1/13.8
R7	7510001770	S.THE NTCG10 4LH 473JT	T	112.1/23.0
R8	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	12.5/7.3
R9	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	12.0/8.5
R10	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	14.7/6.8
R11	7030005830	S.RES RR0510P-223-D (22K)	T	112.6/24.2
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	12.9/8.5
R14	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	14.0/15.4
R15	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	13.1/15.4
R16	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	55.5/13.3
R17	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	54.1/12.8
R18	7030008310	S.RES ERJ2GEJ 564 X (560K)	B	45.6/26.3
R19	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	34.3/21.3
R21	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	53.7/11.6
R24	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	51.6/9.8
R25	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	51.6/10.7
R27	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	44.4/13.0
R28	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	51.6/8.0
R29	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	55.4/9.8
R30	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	27.1/13.6
R31	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	40.5/47.9
R32	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	B	54.4/6.6
R34	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	52.0/6.8
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	30.3/14.4
R36	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	96.5/6.6
R37	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.4/9.8
R39	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	33.4/16.0
R40	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	93.0/17.2
R41	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	84.8/7.3
R45	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	B	32.1/22.6
R47	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	11.8/6.4

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

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R48	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	93.3/8.9
R49	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	32.1/21.7
R50	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	32.9/18.4
R51	7030005530	S.RES ERJ2GEJ 100 X (10)	B	92.2/10.8
R53	7030007310	S.RES ERJ2GEJ 155 X (1.5M)	B	32.5/19.6
R56	7030003660	S.RES ERJ3GEYJ 683 V (68K)	B	35.1/15.4
R57	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.9/4.7
R58	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	108.8/4.7
R59	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	87.6/14.5
R60	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	106.3/8.8
R61	7210003340	VAR R0903N-B50KL-20F <SKD>		
R62	7210003340	VAR R0903N-B50KL-20F <SKD>		
R64	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	42.7/22.4
R67	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	42.8/13.0
R69	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	41.4/14.5
R70	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	42.3/14.5
R72	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	38.6/15.0
R73	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	38.6/14.1
R74	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	38.6/13.2
R76	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	21.7/19.3
R78	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	22.2/18.1
R79	7030007280	S.RES ERJ2GEJ 331 X (330)	B	81.6/16.3
R80	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	78.5/11.0
R81	7030005310	S.RES ERJ2GEJ 124 X (120K)	B	22.1/20.5
R82	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	79.7/10.8
R83	7030007260	S.RES ERJ2GEJ 330 X (33)	T	44.5/18.2
R84	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	22.6/21.7
R85	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	80.5/14.6
R86	7030007260	S.RES ERJ2GEJ 330 X (33)	T	43.6/18.2
R87	7410001130	S.ARR EXB28V102JX	B	112.5/14.8
R88	7030007260	S.RES ERJ2GEJ 330 X (33)	T	66.5/18.2
R89	7030007260	S.RES ERJ2GEJ 330 X (33)	T	65.6/18.2
R90	7030007280	S.RES ERJ2GEJ 331 X (330)	B	79.2/14.6
R91	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	29.8/21.6
R92	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	30.3/19.5
R93	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	59.0/21.4
R94	7030007260	S.RES ERJ2GEJ 330 X (33)	T	88.5/18.2
R95	7030007270	S.RES ERJ2GEJ 151 X (150)	B	76.7/14.6
R97	7030007260	S.RES ERJ2GEJ 330 X (33)	T	87.6/18.2
R99	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	78.0/14.6
R101	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	8.2/14.7
R103	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	22.6/16.0
R104	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	20.8/17.0
R105	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	22.2/17.2
R108	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	111.2/20.6
R114	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	81.5/7.3
R133	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	94.7/8.0
R134	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	44.4/25.9
R135	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	127.5/26.6
R137	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	107.2/8.0
R519	7030005010	S.RES ERJ2GEJ 681 X (680)	B	34.6/16.4
R554	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	82.7/7.7
R555	7410001130	S.ARR EXB28V102JX	T	106.0/15.4
R556	7410001130	S.ARR EXB28V102JX	T	106.1/12.4
R557	7410001130	S.ARR EXB28V102JX	T	102.5/11.0
R558	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	56.4/13.3
R559	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	56.4/10.9
R561	7030010040	S.RES ERJ2GEJ-JPW	B	100.0/4.4
R562	7030010040	S.RES ERJ2GEJ-JPW	B	91.0/11.3
R563	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	45.6/25.4
R564	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	51.3/22.1
R565	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	48.0/22.1
R566	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/26.9
R567	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/26.0
R568	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/25.1
R569	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/24.2
R570	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	130.4/23.3
R572	7030010040	S.RES ERJ2GEJ-JPW	B	20.1/14.7
R573	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	7.1/6.9
R574	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	42.6/21.5
R575	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	35.5/19.1
C4	4030011600	S.CER C1608 JB 1E 104K-T	T	113.6/25.5
C5	4030017420	S.CER C1005 CH 1H 470J-T	B	59.9/20.6
C7	4030017460	S.CER C1005 JB 1H 102K-T	B	60.3/13.2
C8	4030016790	S.CER C1005 JB 1E 103K-T	B	18.3/12.2
C10	4030017460	S.CER C1005 JB 1H 102K-T	B	

[LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C45	4030016790	S.CER C1005 JB 1E 103K-T	B	96.5/5.0
C46	4030016970	S.CER C1005 JB 1E 223K-T	B	56.6/8.1
C47	4030016930	S.CER C1005 JB 1A 104K-T	B	34.9/17.6
C48	4030017760	S.CER C1005 JB 1H 222K-T	B	56.6/7.2
C49	4030016930	S.CER C1005 JB 1A 104K-T	B	109.8/22.7
C51	4030017030	S.CER C1005 JB 1A 273K-T	B	111.4/25.0
C52	4030017420	S.CER C1005 CH 1H 470J-T	T	7.3/27.6
C53	4030017690	S.CER C1005 CH 1H 121J-T	B	86.1/6.7
C54	4030016790	S.CER C1005 JB 1E 103K-T	B	33.4/21.2
C55	4030017620	S.CER C1005 CH 1H 100C-T	B	92.9/10.1
C56	4030017760	S.CER C1005 JB 1H 222K-T	B	32.1/20.8
C57	4030018110	S.CER C1005 JB 1H 272K-T	B	33.4/19.6
C58	4030017780	S.CER C1005 JB 1H 472K-T	T	106.1/17.1
C59	4030017640	S.CER C1005 CH 1H 150J-T	B	94.0/9.5
C60	4030017780	S.CER C1005 JB 1H 472K-T	B	110.7/13.2
C61	4030017780	S.CER C1005 JB 1H 472K-T	T	110.3/12.7
C62	4030016930	S.CER C1005 JB 1A 104K-T	B	110.7/6.5
C64	4030016790	S.CER C1005 JB 1E 103K-T	B	85.9/13.5
C66	4030016790	S.CER C1005 JB 1E 103K-T	B	43.5/15.0
C67	4030019560	S.CER GRM21BB31C106KE15L	T	95.4/17.6
C68	4030016930	S.CER C1005 JB 1A 104K-T	T	99.0/10.9
C69	4030016960	S.CER C1005 JB 1E 183K-T	B	42.6/23.3
C70	4030016790	S.CER C1005 JB 1E 103K-T	T	111.7/24.2
C71	4030016790	S.CER C1005 JB 1E 103K-T	B	40.2/14.1
C73	4030019620	S.CER GRM188B31C225KE14D	B	40.7/13.0
C74	4030018920	S.CER C1005 JB 1H 392K-T	B	20.5/20.5
C75	4030017450	S.CER C1005 JB 1H 271K-T	B	22.6/19.3
C76	4030017040	S.CER C1005 JB 1A 333K-T	B	21.4/22.2
C77	4030019620	S.CER GRM188B31C225KE14D	T	31.3/20.0
C78	4030016790	S.CER C1005 JB 1E 103K-T	B	26.1/14.4
C79	4030017440	S.CER C1005 CH 1H 221J-T	B	21.7/16.0
C80	4030019990	S.CER C1005 JB 1C 104K-T	B	82.7/6.1
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	83.6/7.7
C83	4030016930	S.CER C1005 JB 1A 104K-T	T	29.4/19.5
C85	4030019990	S.CER C1005 JB 1C 104K-T	B	22.1/14.8
C86	4030017460	S.CER C1005 JB 1H 102K-T	B	10.1/23.7
C87	4030018890	S.CER C1005 JB 0J 224K-T	B	108.1/8.0
C88	4030018890	S.CER C1005 JB 0J 224K-T	B	45.2/27.5
C89	4030016930	S.CER C1005 JB 1A 104K-T	B	46.2/15.4
C90	4030017780	S.CER C1005 JB 1H 472K-T	T	100.4/11.6
C91	4030017780	S.CER C1005 JB 1H 472K-T	B	109.4/9.6
C92	4030017780	S.CER C1005 JB 1H 472K-T	T	104.5/10.9
C94	4030017780	S.CER C1005 JB 1H 472K-T	B	110.0/12.3
C95	4030017780	S.CER C1005 JB 1H 472K-T	B	110.0/11.4
C96	4030017780	S.CER C1005 JB 1H 472K-T	B	109.4/10.5
C97	4030017780	S.CER C1005 JB 1H 472K-T	T	106.1/10.7
C99	4030017770	S.CER C1005 JB 1H 332K-T	B	56.8/12.1
C100	4030017720	S.CER C1005 JB 1H 331K-T	B	57.6/10.0
C101	4030016930	S.CER C1005 JB 1A 104K-T	B	53.0/21.9
C102	4030018890	S.CER C1005 JB 0J 224K-T	B	106.9/6.8
C103	4030017460	S.CER C1005 JB 1H 102K-T	B	58.0/13.4
C104	4030017460	S.CER C1005 JB 1H 102K-T	B	111.7/19.4
C105	4030016930	S.CER C1005 JB 1A 104K-T	B	44.4/24.3
C108	4550007080	S.TAN TEESVA 1C 106M8R	B	9.5/17.4
Eqv.	4550008220	S.TAN F931C106MAA		
C109	4030016970	S.CER C1005 JB 1E 223K-T	B	36.1/20.9
J1	6450002210	CON 3017-8821 <KIN>		
J3	6510028390	S.CON 04-6294-036-000-800	B	66.0/16.9
DS1	5030003530	LCD L1-1207TVM-1 <TES>		
DS3	5040003470	S.LED HT-297UY/YUG <KOU>	T	44.0/20.0
DS5	5040003470	S.LED HT-297UY/YUG <KOU>	T	55.0/20.0
DS6	5040003470	S.LED HT-297UY/YUG <KOU>	T	66.0/20.0
DS7	5040003470	S.LED HT-297UY/YUG <KOU>	T	77.0/20.0
DS8	5040003470	S.LED HT-297UY/YUG <KOU>	T	88.0/20.0
DS9	5040003470	S.LED HT-297UY/YUG <KOU>	T	99.0/20.0
S1	2260002740	S.SWI LS8J2M-T	T	10.0/30.6
S2	2260002740	S.SWI LS8J2M-T	T	101.5/4.8
S3	2260002740	S.SWI LS8J2M-T	T	89.5/4.8
S4	2260002740	S.SWI LS8J2M-T	T	77.5/4.8
S5	2260002740	S.SWI LS8J2M-T	T	65.5/4.8
S6	2260002740	S.SWI LS8J2M-T	T	53.5/4.8
S7	2260002740	S.SWI LS8J2M-T	T	41.5/4.8
S8	2260002740	S.SWI LS8J2M-T	T	10.0/21.3
S9	2250000700	ENC EC12E24204A8		
S10	2260002740	S.SWI LS8J2M-T	T	111.8/4.8
EP1	6910018460	S.BEA MMZ1005Y102C-T	B	15.6/13.2
EP2	6910012350	S.BEA MMZ1608Y 102BT	T	11.5/14.6
EP3	6910018460	S.BEA MMZ1005Y102C-T	B	12.2/15.4
EP4	6910018460	S.BEA MMZ1005Y102C-T	T	9.7/14.4
EP5	6910018460	S.BEA MMZ1005Y102C-T	B	8.4/8.5
EP6	6910018460	S.BEA MMZ1005Y102C-T	B	7.1/8.5
EP7	6910018460	S.BEA MMZ1005Y102C-T	T	6.4/14.7
EP8	6910012350	S.BEA MMZ1608Y 102BT	B	4.6/8.0
EP9	89300084270	LCD SRCN-3251-SP-N-W		

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

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC2	1130011760	S.IC CD4094BPWR	B	44.3/4.4
IC3	1110007720	S.IC AA32416A <SLVJ>	B	95.9/11.4
IC4	1130007021	S.IC TC7S66FU(TE85LF)	T	57.1/17.6
IC5	1110007550	S.IC R2A20178NP	T	74.3/17.2
IC6	1180001252	S.IC TA7808F(TE16L1NQ)	B	10.0/38.9
IC7	1110003091	IC LA4425A-E		
IC8	1180003470	S.REG NJM2835DL1-05-TE1-#ZZZB	B	11.2/48.5
IC9	1110006470	S.IC LMV3241PWR	T	77.9/26.5
IC10	1110006870	S.IC UPC2709TB-E3	B	40.7/26.3
Q1	1530002851	S.TRA 2SC4116-BL(TE85RF)	T	88.4/14.8
Q2	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	15.5/30.8
Q3	1510000591	S.TRA 2SA1362-Y(TE85LF)	B	15.8/33.1
Q4	1590004050	S.TRA LDTA144EET1G <SLVJ>	T	99.3/3.9
Q5	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	35.0/29.9
Q6	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	29.7/15.6
Q7	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	31.7/17.7
Q8	1590004040	S.TRA LDTA123YET1G <SLVJ>	B	31.8/21.3
Q9	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	88.9/6.5
Q10	1560000541	S.FET 2SK880-Y(T5RICOMF)	T	56.9/13.1
Q11	1590004070	S.TRA LDTC144EET1G <SLVJ>	T	43.9/11.9
Q12	1590004040	S.TRA LDTA123YET1G <SLVJ>	B	11.0/29.4
Q13	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	34.8/15.7
Q14	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	36.3/21.1
Q15	1590004040	S.TRA LDTA123YET1G <SLVJ>	B	11.0/31.5
Q16	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	12.3/33.6
Q17	1530002931	S.TRA 2SC4228-T1 Y45 (R45)	B	34.2/25.7
Q20	1530003091	S.TRA 2SC4216-T1 Y25 (R25)	B	21.1/4.3
Q21	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	T	22.6/45.2
Q22	1560001241	S.FET RD01MUS1-T113	T	30.4/49.4
Q23	1520000460	S.TRA 2SB1132 T100 R	B	19.0/52.5
Eqv.	1520000910	S.TRA 2SB1132L-R-AB3-R <SLVJ>		
Eqv.	1520000201	S.TRA 2SB798-T2-AZ DK		
Q24	1520000460	S.TRA 2SB1132 T100 R	B	19.0/44.7
Eqv.	1520000910	S.TRA 2SB1132L-R-AB3-R <SLVJ>		
Eqv.	1520000201	S.TRA 2SB798-T2-AZ DK		
Q25	1590004690	S.TRA LDTC143ZET1G <SLVJ>	B	21.1/39.0
Q26	1560001770	S.FET RD04HMS2-T112	T	29.6/55.9
Q27	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	86.7/13.6
Q28	1585000731	S.FET 3SK293(TE85LF)	B	82.4/21.6
Q29	1560001780	S.FET RD70HUF2-T1105	B	60.0/54.7
Q31	1590004050	S.TRA LDTA144EET1G <SLVJ>	T	71.1/22.7
Q32	1580000731	S.FET 3SK293(TE85LF)	B	102.1/22.6
Q33	1560001790	S.FET LN2306LT1G <SLVJ>	T	27.2/9.8
Q34	1590004070	S.TRA LDTC144EET1G <SLVJ>	T	29.0/7.0
Q35	1560001790	S.FET LN2306LT1G <SLVJ>	T	25.5/6.6
Q36	1560001790	S.FET LN2306LT1G <SLVJ>	T	21.1/23.0
Q37	1560001790	S.FET LN2306LT1G <SLVJ>	T	20.4/26.3
Q38	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	23.8/23.9
Q39	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	10.8/27.4
D1	1750001790	S.DIO 1SS390 TE61	T	104.2/9.2
Eqv.	1750002480	S.DIO 1SS390 <KMC>		
Eqv.	1750000571	S.DIO 1SS381(TPH3F)		
Eqv.	1750001700	S.DIO HSC277TRF-E		
D2	1750001790	S.DIO 1SS390 TE61	T	108.6/9.8
Eqv.	1750002480	S.DIO 1SS390 <KMC>		
Eqv.	1750000571	S.DIO 1SS381(TPH3F)		
Eqv.	1750001700	S.DIO HSC277TRF-E		
D3	1750001810	S.DIO L1SS400T1G <SLVJ>	B	55.4/20.0
D4	1750001810	S.DIO L1SS400T1G <SLVJ>	B	33.1/30.0
D5	1750001790	S.DIO 1SS390 TE61	T	99.7/7.7
Eqv.	1750002480	S.DIO 1SS390 <KMC>		
Eqv.	1750000571	S.DIO 1SS381(TPH3F)		
Eqv.	1750001700	S.DIO HSC277TRF-E		
D6	1750001790	S.DIO 1SS390 TE61	T	99.7/10.2
Eqv.	1750002480	S.DIO 1SS390 <KMC>		
Eqv.	1750000571	S.DIO 1SS381(TPH3F)		
Eqv.	1750001700	S.DIO HSC277TRF-E		
D7	1750000721	S.VAR HVC375BTRF-E	B	43.1/15.8
D8	1750000721	S.VAR HVC375BTRF-E	B	44.9/13.6
D9	1750001570	S.VAR HVL355CMKRF-E	B	41.5/13.4
D10	1750000721	S.VAR HVC375BTRF-E	B	43.4/20.2
D11	1750000721	S.VAR HVC375BTRF-E	B	43.9/18.4
D12	1750001910	S.DIO HVD144AKRF-E	B	45.3/29.1
D13	1750001910	S.DIO HVD144AKRF-E	B	43.7/29.8
D16	1790001950	S.VAR VC060318A4000RP	T	37.0/67.9
D17	1750001820	S.DIO LRB706F-40T1G <SLVJ>	B	85.2/9.1
Eqv.	1750000370	S.DIO DA221 TL		
D19	1710001300	DIO P6KA18AHE3/54 <TOMEN>		
D22	1750000711	S.VAR HVC350BTRF-E	B	95.0/20.4
D23	1750000711	S.VAR HVC350BTRF-E	B	112.4/20.8
D24	1750002190	S.DIO JDP2S12CR(TE85LQ)	T	101.2/36.2
D25	1750002190	S.DIO JDP2S12CR(TE85LQ)	T	101.2/34.1
D26	1750001810	S.DIO L1SS400T1G <SLVJ>	B	109.6/25.1
D27	1750001820	S.DIO LRB706F-40T1G <SLVJ>	B	104.9/43.4
Eqv.	1750000370	S.DIO DA221 TL		
D28	1750001810	S.DIO L1SS400T1G <SLVJ>	T	108.0/20.4
D29	1710000871	S.DIO HVU131TRF-E	T	112.9/22.7
D30	1710000871	S.DIO HVU131TRF-E	T	113.3/32.5
D31	1710000871	S.DIO HVU131TRF-E	T	113.3/30.8
D32	1710000871	S.DIO HVU131TRF-E	T	113.3/29.0
D33	1750001820	S.DIO LRB706F-40T1G <SLVJ>	B	99.5/47.1
Eqv.	1750000370	S.DIO DA221 TL		
D34	1750001780	S.VAR HVB350BYPTL-E	B	90.5/20.0
D35	1750001810	S.DIO L1SS400T1G <SLVJ>	T	99.8/22.5
F11	2020002380	CER LT450FW <JJE>		
F12	2020002510	CER LTW450HT <JJE>		
F13	20300000870	S.MON MFT46.3P3 46.350 MHz (FL-442)	B	80.6/14.0

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
X1	6050012830	S.XTA CR-875 TTS14VSB-A3 15.3 MHz	T	64.7/14.0
X2	6070000300	S.DIS JTBM450CX24 <JJE>	T	93.5/5.2
L2	6200012170	S.COI MLG1608S R18J-T	T	93.2/14.8
L3	6200013740	S.COI MLG1608S R47J-T	B	44.9/16.1
L4	6200013740	S.COI MLG1608S R47J-T	B	45.2/19.8
L5	6200011050	S.COI C2012C-R12G-A	B	39.8/14.5
L6	6200009890	S.COI C2012C-82NG-A	B	41.1/19.1
L7	6200011031	S.COI ELJRF R10JFB	B	36.9/26.1
L9	6190002030	S.COI MLG1608S 1R0J-T	B	43.8/26.3
L11	6200007871	S.COI ELJRF 39NJFB	B	44.3/28.4
L12	6200011011	S.COI ELJRF 68NJFB	T	21.5/47.0
L13	6200007891	S.COI ELJRF 27NJFB	T	26.4/52.4
L14	6200013100	S.COI 0.45-1.5-5TL 18.3N <COMO>	T	35.4/61.0
L15	6190002030	S.COI MLG1608S 1R0J-T	B	88.7/12.9
L22	6200011031	S.COI ELJRF R10JFB	B	81.6/23.9
L23	6200012860	S.COI 0.20-0.7-4TR 6.5N <COMO>	B	44.7/51.6
L24	6200012860	S.COI 0.20-0.7-4TR 6.5N <COMO>	B	44.7/57.9
L25	6200011090	S.COI C2012C-R56J-A	B	77.9/20.3
L26	6200010160	S.COI AS080440-22N	T	80.6/60.2
L27	6200009890	S.COI C2012C-82NG-A	T	89.4/21.7
L28	6200009890	S.COI C2012C-82NG-A	T	92.7/21.7
L29	6110004080	COI LA-630		
L30	6200009930	S.COI C2012C-68NG-A	T	97.5/22.4
L31	6200010150	S.COI AS080340-15N	T	89.6/48.3
L32	6200009920	S.COI C2012C-R10G-A	B	108.7/23.4
L33	6200010420	S.COI FHW1210HC 1R0JGT <JJE>	T	90.5/35.3
L34	6200012460	S.COI 0.30-1.7-8TL 54N <COMO>	T	111.2/19.7
L36	6200010050	S.COI AS080547-77N	B	110.0/37.2
L37	6200012760	S.COI 0.35-1.6-7TL 37.5N <COMO>	T	111.5/26.3
L38	6200007370	S.COI ELJFC R82K-F	B	100.8/44.5
L39	6200010050	S.COI AS080547-47N	B	110.1/45.7
L40	6200010060	S.COI AS080647-56N	T	108.5/36.2
L41	6200010060	S.COI AS080647-56N	B	107.9/52.5
L42	6200010060	S.COI AS080647-56N	B	107.0/58.8
R2	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	59.0/10.4
R4	7030007310	S.RES ERJ2GEJ 155 X (1.5M)	T	68.7/16.1
R5	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	68.7/15.2
R6	7030004980	S.RES ERJ2GEJ 101 X (100)	T	68.7/12.8
R7	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	68.2/14.0
R9	7030006610	S.RES ERJ2GEJ 394 X (390K)	T	66.3/16.9
R10	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	16.7/28.5
R11	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	88.4/11.8
R12	7030007060	S.RES ERJ2GEJ 684X (680K)	T	87.9/16.5
R13	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	13.8/33.8
R14	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	13.8/32.2
R16	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	60.3/15.6
R17	7030008290	S.RES ERJ2GEJ 183 X (18K)	T	102.2/9.1
R22	7030008290	S.RES ERJ2GEJ 183 X (18K)	T	110.3/9.5
R23	7030008290	S.RES ERJ2GEJ 183 X (18K)	T	106.8/9.1
R25	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	32.1/29.3
R26	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	57.0/20.1
R27	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	30.3/13.3
R28	7030008290	S.RES ERJ2GEJ 183 X (18K)	T	98.6/6.2
R29	7030007310	S.RES ERJ2GEJ 155 X (1.5M)	B	53.7/20.1
R31	7030008290	S.RES ERJ2GEJ 183 X (18K)	T	99.1/13.0
R32	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	99.1/1.5
R33	7030008290	S.RES ERJ2GEJ 183 X (18K)	T	98.2/9.3
R34	7410001220	S.ARR EXB28V103JX	B	62.3/18.4
R36	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	31.8/19.5
R37	7030005240	S.RES ERJ2GEJ 473 X (4.7K)	B	98.9/8.1
R38	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	100.0/13.2
R39	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	B	97.2/6.2
R40	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	92.2/5.3
R41	7030005000	S.RES ERJ2GEJ 471 X (4.7K)	B	93.3/7.7
R43	7030005240	S.RES ERJ2GEJ 473 X (4.7K)	B	43.3/7.7
R44	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	T	53.8/17.1
R46	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	57.1/14.8
R47	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	90.8/6.5
R48	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	T	52.2/17.1
R49	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	90.7/10.4
R50	7030004990	S.RES ERJ2GEJ 221 X (220)	T	52.2/18.0
R51	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	59.1/13.3
R53	7030004990	S.RES ERJ2GEJ 221 X (220)	B	89.5/10.1
R54	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	58.3/20.3
R55	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	T	49.7/17.5
R56	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	55.0/13.5
R57	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	91.2/9.0
R58	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	46.1/12.7
R59	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	47.3/13.2
R60	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	T	46.8/18.4
R61	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	44.5/17.6
R62	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	44.1/16.4
R63	7030012260	S.RES ERJ2RKD 4703X (470K)	T	45.7/14.1
R64	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	42.4/14.2
R65	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	74.6/8.2
R66	7030009280	S.RES ERJ2GEJ 391 X	B	34.0/17.6
R67	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	36.6/13.7
R68	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	36.6/15.3
R69	7030008260	S.RES RR0510P-393-D (39K)	B	38.0/19.0
R70	7030005820	S.RES RR0510P-103-D (10K)	B	38.0/20.6
R71	7030009270	S.RES ERJ2GEJ 821 X (820)	T	32.8/13.4
R72	7030005000	S.RES ERJ2GEJ 471 X (4.7K)	B	73.3/8.6
R73	7030009270	S.RES ERJ2GEJ 821 X (820)	B	36.7/18.0
R74	7030009280	S.RES ERJ2GEJ 391 X	B	34.2/22.0
R76	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	36.0/25.2
R78	7030007270	S.RES ERJ2GEJ 151 X (150)	B	36.0/26.8
R79	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	76.6/8.0
R80	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	76.6/8.4
R84	7030005580	S.RES ERJ2GEJ 560 X (56)	B	38.7/26.1
R85	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	25.5/5.0
R86	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	44.8/30.8

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

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R87	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	21.7/39.2
R88	7030005710	S.RES ERJ2GEJ 121 X (12K)	T	23.2/40.8
R89	7030004970	S.RES ERJ2GEJ 470 X (47)	T	22.0/41.3
R90	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	18.8/2.9
R91	7030005710	S.RES ERJ2GEJ 121 X (12K)	T	23.2/41.7
R92	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	24.4/4.1
R93	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	19.2/4.1
R94	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	20.4/43.6
R96	7030004980	S.RES ERJ2GEJ 101 X (100)	T	21.9/49.2
R97	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	20.9/44.8
R98	7030009160	S.RES ERJ2GEJ 181 X (180)	T	24.7/44.5
R99	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	33.9/49.2
R100	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	33.9/47.4
R102	7030005590	S.RES ERJ2GEJ 680 X (68)	T	32.9/46.5
R105	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	21.4/41.6
R106	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	33.9/50.1
R108	7030004980	S.RES ERJ2GEJ 101 X (100)	T	26.4/51.5
R109	7030005060	S.RES ERJ2GEJ 333 X (33K)	T	34.3/53.1
R110	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	22.1/49.0
R111	7030005240	S.RES ERJ2GEJ 473 X (4.7K)	B	19.0/56.2
R112	7030005240	S.RES ERJ2GEJ 473 X (4.7K)	B	19.8/41.5
R114	7030007250	S.RES ERJ2GEJ 220 X (22)	T	33.4/53.1
R115	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	78.0/24.2
R116	7030005000	S.RES ERJ2GEJ 471 X (4.7K)	B	88.3/10.8
R117	7030000100	S.RES MCR10EZHJ 4.7 (4R7)	B	9.6/23.2
R118	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	86.2/11.9
R119	7030010090	S.RES ERJ2GEJ 180 X (18)	B	46.2/28.8
R120	7030005590	S.RES ERJ2GEJ 680 X (68)	B	46.7/30.0
R121	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	13.9/62.0
R122	7030008370	S.RES ERJ2GEJ 561 X (560)	B	83.2/9.0
R124	7030010090	S.RES ERJ2GEJ 180 X (18)	B	47.1/28.8
R125	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	72.5/23.3
R126	7030005530	S.RES ERJ2GEJ 100 X (10)	B	77.8/18.3
R127	7030004970	S.RES ERJ2GEJ 470 X (47)	B	85.2/23.6
R128	7030000180	S.RES MCR10EZHJ 22 (220)	T	48.7/50.9
R129	7030004030	S.RES ERJ3GEYJ 5R6 V (5.6)	B	48.9/50.1
R130	7030004030	S.RES ERJ3GEYJ 5R6 V (5.6)	B	48.9/59.3
R131	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	80.4/21.0
R132	7030000180	S.RES MCR10EZHJ 22 (220)	T	48.7/58.6
R133	7030005590	S.RES ERJ2GEJ 680 X (68)	B	83.3/19.5
R134	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	50.0/60.6
R135	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	50.0/49.0
R136	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	84.3/22.7
R137	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	84.3/21.1
R138	7030005310	S.RES ERJ2GEJ 124 X (120K)	B	85.2/21.9
R139	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	87.3/21.6
R144	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	79.0/22.3
R145	7030005240	S.RES ERJ2GEJ 473 X (4.7K)	B	88.7/20.6
R146	7520000241	S.POS PRF18BC471QB58B	T	66.0/45.4
R147	7030005170	S.RES ERJ2GEJ 474 X (4.7K)	T	73.4/27.9
R149	7030010040	S.RES ERJ2GEJ-JPW	T	71.0/26.2
R150	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	77.4/23.2
R152	7030005240	S.RES ERJ2GEJ 473 X (4.7K)	B	92.2/20.6
R153	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	71.6/24.7
R156	7030012710	S.RES ERA2AEB 273X (27K)	T	80.1/32.7
R157	7030012160	S.RES ERJM1W5F6M0U	T	71.1/66.8
R159	7030005240	S.RES ERJ2GEJ 473 X (4.7K)	B	96.1/20.8
R160	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	83.5/24.9
R161	7030004970	S.RES ERJ2GEJ 470 X (47)	B	97.9/23.6
R162	7030008370	S.RES ERJ2GEJ 561 X (560)	B	100.1/22.4
R163	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	82.3/24.4
R164	7030004980	S.RES ERJ2GEJ 101 X (100)	B	101.3/20.8
R165	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	83.2/23.7
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[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R216	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	19.4/21.5
R217	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	23.3/22.2
R218	7030000100	S.RES MCR10EZHJ 4.7 (4R7)	B	14.3/18.9
R220	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	95.9/10.2
R225	7030010040	S.RES ERJ2GEJ-JPW	T	75.4/29.7
R230	7030010040	S.RES ERJ2GEJ-JPW	B	38.8/24.5
R231	7030005580	S.RES ERJ2GEJ 560 X (56)	B	38.2/27.7
R233	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	71.5/9.0
R234	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	24.3/5.6
R235	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	64.8/44.3
C2	4030017460	S.CER C1005 JB 1H 102K-T	B	53.8/8.3
C3	4030020000	S.CER C1005 JB 1A 105K-T	T	70.0/14.0
C4	4030020000	S.CER C1005 JB 1A 105K-T	T	69.1/14.0
C8	4030019990	S.CER C1005 JB 1C 104K-T	T	65.5/11.1
C9	4030017430	S.CER C1005 CH 1H 101J-T	T	86.3/16.5
C10	4030017460	S.CER C1005 JB 1H 102K-T	B	10.6/34.3
C11	4030019990	S.CER C1005 JB 1C 104K-T	B	15.5/28.9
C12	4030016790	S.CER C1005 JB 1E 103K-T	T	87.9/10.6
C13	4030017460	S.CER C1005 JB 1H 102K-T	T	61.2/12.9
C14	4030017380	S.CER C1005 CH 1H 050B-T	T	91.4/14.3
C15	4030019560	S.CER GRM21BB31C106KE15L	B	18.4/34.8
C16	4030016790	S.CER C1005 JB 1E 103K-T	T	87.9/13.0
C17	4030017580	S.CER C1005 CH 1H 060C-T	T	91.9/15.5
C18	4030017500	S.CER C1005 CH 1H 560J-T	T	94.3/14.3
C19	4030016790	S.CER C1005 JB 1E 103K-T	B	66.8/8.3
C21	4030017620	S.CER C1005 CH 1H 100C-T	T	61.2/15.6
C22	4030017460	S.CER C1005 JB 1H 102K-T	B	53.3/5.3
C23	4030017460	S.CER C1005 JB 1H 102K-T	B	68.3/5.3
C24	4030017460	S.CER C1005 JB 1H 102K-T	B	56.1/13.2
C26	4030017360	S.CER C1005 CH 1H 030B-T	T	94.6/15.5
C27	4030017460	S.CER C1005 JB 1H 102K-T	B	61.8/8.3
C29	4030016930	S.CER C1005 JB 1A 104K-T	B	40.9/7.7
C30	4030016950	S.CER C1005 JB 1A 473K-T	T	111.5/9.1
C31	4030017460	S.CER C1005 JB 1H 102K-T	B	65.8/5.3
C33	4030017460	S.CER C1005 JB 1H 102K-T	B	55.8/5.3
C34	4030017460	S.CER C1005 JB 1H 102K-T	B	31.2/29.3
C35	4030017730	S.CER C1005 JB 1H 471K-T	B	54.6/21.4
C36	4030017460	S.CER C1005 JB 1H 102K-T	B	51.7/17.1
C37	4030017420	S.CER C1005 CH 1H 470J-T	B	55.8/21.0
C39	4030019990	S.CER C1005 JB 1C 104K-T	B	50.5/16.0
C40	4030017460	S.CER C1005 JB 1H 102K-T	B	49.1/13.3
C41	4030019990	S.CER C1005 JB 1C 104K-T	B	60.5/20.1
C42	4510009950	S.ELE EEEHC1C470P	T	29.6/32.5
C43	4030020000	S.CER C1005 JB 1A 105K-T	B	51.7/13.9
C45	4030017460	S.CER C1005 JB 1H 102K-T	B	37.1/30.8
C46	4030020000	S.CER C1005 JB 1A 105K-T	B	50.5/15.1
C49	4030019990	S.CER C1005 JB 1C 104K-T	T	102.2/10.0
C50	4030019990	S.CER C1005 JB 1C 104K-T	T	98.6/10.5
C51	4030019990	S.CER C1005 JB 1C 104K-T	B	97.1/8.1
C52	4030017720	S.CER C1005 JB 1H 331K-T	B	99.3/6.9
C53	4030017720	S.CER C1005 JB 1H 331K-T	B	98.4/6.9
C54	4030016790	S.CER C1005 JB 1E 103K-T	B	98.2/15.1
C55	4030019560	S.CER GRM21BB31C106KE15L	T	91.6/10.7
C56	4030020000	S.CER C1005 JB 1A 105K-T	B	99.1/15.1
C57	4030017460	S.CER C1005 JB 1H 102K-T	T	90.0/10.1
C58	4030017460	S.CER C1005 JB 1H 102K-T	B	93.7/6.5
C59	4030017460	S.CER C1005 JB 1H 102K-T	T	57.1/15.7
C60	4030017460	S.CER C1005 JB 1H 102K-T	B	94.2/7.7
C61	4030019990	S.CER C1005 JB 1C 104K-T	B	87.3/6.5
C62	4030017460	S.CER C1005 JB 1H 102K-T	B	91.6/12.6
C63	4030019990	S.CER C1005 JB 1C 104K-T	T	56.3/19.8
C64	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/14.7
C65	4030019990	S.CER C1005 JB 1C 104K-T	T	58.3/15.3
C66	4030019990	S.CER C1005 JB 1C 104K-T	B	91.3/7.7
C67	4550000530	S.TAN TEESVA 1V 104M8R [TPE]	T	53.5/14.1
Eqv.	4550008210	S.TAN 267M3502 104MR [TPE]	T	
C67	4550008210	S.TAN 267M3502 104MR [USA]	T	53.5/14.1
Eqv.	4550000530	S.TAN TEESVA 1V 104M8R [USA]	T	
C67	4550000530	S.TAN TEESVA 1V 104M8R [KOR]	T	53.5/14.1
Eqv.	4550008210	S.TAN 267M3502 104MR [KOR]	T	
C67	4550008210	S.TAN 267M3502 104MR [EXP-01]	T	53.5/14.1
Eqv.	4550000530	S.TAN TEESVA 1V 104M8R [EXP-01]	T	
C67	4550000530	S.TAN TEESVA 1V 104M8R [EXP-02]	T	53.5/14.1
Eqv.	4550008210	S.TAN 267M3502 104MR [EXP-02]	T	
C68	4030017460	S.CER C1005 JB 1H 102K-T	T	59.1/12.4
C69	4030017430	S.CER C1005 CH 1H 101J-T	B	91.6/10.2
C70	4030017040	S.CER C1005 JB 1A 333K-T	T	95.9/11.1
C71	4030017460	S.CER C1005 JB 1H 102K-T	T	58.3/19.4
C74	4550002890	S.TAN TEESVA 1A 225M8R	T	49.3/14.1
Eqv.	4550007400	S.TAN F931A225MAABMA	T	
C75	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/12.3
C76	4030017420	S.CER C1005 CH 1H 470J-T	T	43.6/17.6
C77	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/14.1
C78	4030017420	S.CER C1005 CH 1H 470J-T	B	47.1/19.4
C79	4030020000	S.CER C1005 JB 1A 105K-T	T	44.5/15.2
C80	4550000560	S.TAN TEESVA 1V 334M8R [TPE]	B	46.6/14.9
Eqv.	4550007550	S.TAN F931V334MAABMA [TPE]	B	
C80	4550007550	S.TAN F931V334MAABMA [USA]	B	46.6/14.9
Eqv.	4550000560	S.TAN TEESVA 1V 334M8R [USA]	B	
C80	4550000560	S.TAN TEESVA 1V 334M8R [KOR]	B	46.6/14.9
Eqv.	4550007550	S.TAN F931V334MAABMA [KOR]	B	
C80	4550007550	S.TAN F931V334MAABMA [EXP-01]	B	46.6/14.9
Eqv.	4550000560	S.TAN TEESVA 1V 334M8R [EXP-01]	B	
C80	4550000560	S.TAN TEESVA 1V 334M8R [EXP-02]	B	46.6/14.9
Eqv.	4550007550	S.TAN F931V334MAABMA [EXP-02]	B	
C81	4030016790	S.CER C1005 JB 1E 103K-T	B	91.0/13.8
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	13.0/29.4
C83	4030017440	S.CER C1005 CH 1H 221J-T	T	44.5/13.6
C85	4030017750	S.CER C1005 JB 1H 122K-T	B	43.3/13.2
C86	4030017530	S.CER C1005 CH 1H 0R5B-T	B	41.4/15.1
C87	4030017460	S.CER C1005 JB 1H 102K-T	B	34.0/18.5
C88	4030017580	S.CER C1005 CH 1H 060C-T	B	39.2/20.2
C89	4030017580	S.CER C1005 CH 1H 060C-T	B	37.9/14.8

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

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C90	4030017460	S.CER C1005 JB 1H 102K-T	B	92.4/7.0
C91	4030016930	S.CER C1005 JB 1A 104K-T	T	73.4/16.9
C92	4030019990	S.CER C1005 JB 1C 104K-T	B	33.0/23.3
C93	4030017590	S.CER C1005 CH 1H 070C-T	B	34.9/13.8
C94	4030017420	S.CER C1005 CH 1H 470J-T	B	33.7/13.4
C95	4030017380	S.CER C1005 CH 1H 050B-T	B	36.3/19.2
C96	4030018010	S.CER C1005 CH 1H 360J-T	B	35.8/18.0
C97	4030016790	S.CER C1005 JB 1E 103K-T	T	72.8/7.4
C98	4030016930	S.CER C1005 JB 1A 104K-T	T	75.7/17.3
C99	4030017460	S.CER C1005 JB 1H 102K-T	B	37.9/15.7
C100	4030017460	S.CER C1005 JB 1H 102K-T	B	39.2/21.1
C101	4030017540	S.CER C1005 CH 1H R75B-T	B	34.5/20.6
C102	4030019990	S.CER C1005 JB 1C 104K-T	B	37.0/16.6
C103	4030017460	S.CER C1005 JB 1H 102K-T	B	34.2/22.9
C104	4030017540	S.CER C1005 CH 1H R75B-T	B	33.1/15.3
C105	4030017460	S.CER C1005 JB 1H 102K-T	B	32.5/22.2
C106	4030017460	S.CER C1005 JB 1H 102K-T	B	40.0/25.7
C112	4030017460	S.CER C1005 JB 1H 102K-T	B	46.9/25.9
C113	4030017460	S.CER C1005 JB 1H 102K-T	B	39.4/28.0
C116	4030019560	S.CER GRM21BB31C106KE15L	T	78.0/6.1
C117	4030017460	S.CER C1005 JB 1H 102K-T	B	42.7/26.6
C120	4030017460	S.CER C1005 JB 1H 102K-T	T	75.6/6.6
C122	4030017630	S.CER C1005 CH 1H 120J-T	B	43.1/28.0
C123	4030017630	S.CER C1005 CH 1H 120J-T	B	43.1/28.9
C124	4030017460	S.CER C1005 JB 1H 102K-T	B	16.8/37.1
C125	4030017460	S.CER C1005 JB 1H 102K-T	B	44.8/26.8
C126	4510010010	S.ELE 25 CE 220 LX	T	9.5/34.2
C127	4030017460	S.CER C1005 JB 1H 102K-T	T	20.5/39.6
C128	4030017460	S.CER C1005 JB 1H 102K-T	T	22.9/39.6
C129	4510010010	S.ELE 25 CE 220 LX	T	18.8/34.2
C130	4030017460	S.CER C1005 JB 1H 102K-T	B	16.8/40.0
C131	4030017460	S.CER C1005 JB 1H 102K-T	B	25.5/2.4
C132	4030017460	S.CER C1005 JB 1H 102K-T	B	17.7/40.0
C134	4030017650	S.CER C1005 CH 1H 270J-T	T	22.0/42.9
C135	4030018900	S.CER C1005 JB 0J 474K-T	B	18.3/4.1
C137	4030017460	S.CER C1005 JB 1H 102K-T	T	36.0/49.8
C138	4030017460	S.CER C1005 JB 1H 102K-T	T	19.8/49.6
C139	4030017460	S.CER C1005 JB 1H 102K-T	T	24.7/43.6
C140	4030017780	S.CER C1005 JB 1H 472K-T	B	23.2/4.3
C141	4030018900	S.CER C1005 JB 0J 474K-T	B	22.7/3.1
C142	4030017430	S.CER C1005 CH 1H 101J-T	T	23.1/47.0
C143	4030017420	S.CER C1005 CH 1H 470J-T	B	36.3/50.7
C144	4030017730	S.CER C1005 JB 1H 471K-T	B	21.1/6.4
C145	4030016790	S.CER C1005 JB 1E 103K-T	T	33.9/48.3
C148	4030017460	S.CER C1005 JB 1H 102K-T	T	34.1/46.2
C149	4030016930	S.CER C1005 JB 1A 104K-T	T	73.7/22.8
C150	4510010010	S.ELE 25 CE 220 LX	T	32.0/14.5
C151	4030017460	S.CER C1005 JB 1H 102K-T	B	22.7/46.2
C152	4030017460	S.CER C1005 JB 1H 102K-T	T	23.2/51.5
C156	4030017460	S.CER C1005 JB 1H 102K-T	B	13.3/42.7
C157	4030017460	S.CER C1005 JB 1H 102K-T	B	85.2/25.2
C159	4030017420	S.CER C1005 CH 1H 470J-T	T	33.9/51.0
C160	4030017430	S.CER C1005 CH 1H 101J-T	T	27.7/52.0
C161	4030017460	S.CER C1005 JB 1H 102K-T	T	25.1/50.3
C162	4030019990	S.CER C1005 JB 1C 104K-T	B	88.6/14.6
C163	4030017460	S.CER C1005 JB 1H 102K-T	T	33.9/51.9
C164	4510010230	S.ELE 10 CE 1000 LX	T	12.6/23.5
C165	4030019560	S.CER GRM21BB31C106KE15L	B	13.6/44.1
C166	4030017460	S.CER C1005 JB 1H 102K-T	B	87.1/10.3
C167	4030017600	S.CER C1005 CH 1H 080C-T	B	87.4/11.6
C170	4030019990	S.CER C1005 JB 1C 104K-T	B	7.9/22.2
C171	4030017460	S.CER C1005 JB 1H 102K-T	B	46.7/30.9
C172	4030017460	S.CER C1005 JB 1H 102K-T	T	36.9/66.9
C174	4030016790	S.CER C1005 JB 1E 103K-T	B	86.3/15.4
C175	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/11.0
C177	4030017460	S.CER C1005 JB 1H 102K-T	B	14.6/48.5
C178	4030017460	S.CER C1005 JB 1H 102K-T	T	13.1/51.5
C179	4030017460	S.CER C1005 JB 1H 102K-T	T	37.9/62.1
C182	4030017730	S.CER C1005 JB 1H 471K-T	T	17.3/52.2
C184	4030017460	S.CER C1005 JB 1H 102K-T	T	17.3/53.1
C187	4030017580	S.CER C1005 CH 1H 060C-T	B	84.3/15.3
C189	4030007130	S.CER C1608 CH 1H 101J-T	B	40.5/52.1
C190	4030007130	S.CER C1608 CH 1H 101J-T	B	40.5/57.2
C191	4030017370	S.CER C1005 CH 1H 3R5B-T	B	80.4/23.3
C192	4030009980	S.CER C1608 JB 1H 152K-T	B	45.6/53.9
C193	40300099			

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C229	4030016790	S.CER C1005 JB 1E 103K-T	B	89.8/13.6
C230	4030017460	S.CER C1005 JB 1H 102K-T	T	76.9/22.0
C232	4030016930	S.CER C1005 JB 1A 104K-T	B	91.8/18.1
C234	4030020230	S.CER GQM2192C1H680JB01D	T	74.2/48.0
C236	4030017680	S.CER C1005 CH 1H 820J-T	B	91.8/22.4
C237	4030020230	S.CER GQM2192C1H680JB01D	T	74.2/49.8
C238	4030017340	S.CER C1005 CH 1H 010B-T	B	92.7/22.4
C239	4030020230	S.CER GQM2192C1H680JB01D	T	74.2/51.5
C240	4030017460	S.CER C1005 JB 1H 102K-T	T	77.0/29.7
C241	4030020210	S.CER GQM2192C2A150JB01D	T	74.2/53.3
C242	4030017550	S.CER C1005 CH 1H 1R5B-T	B	94.0/22.9
C243	4030017460	S.CER C1005 JB 1H 102K-T	T	68.2/22.1
C245	4030020200	S.CER GQM2192C2A8R0CB01D	T	74.1/55.0
C247	4030017460	S.CER C1005 JB 1H 102K-T	B	95.6/18.5
C249	4030017680	S.CER C1005 CH 1H 820J-T	B	95.2/22.4
C250	4030017460	S.CER C1005 JB 1H 102K-T	B	96.1/22.4
C251	4030016790	S.CER C1005 JB 1E 103K-T	B	100.4/20.5
C254	4030011240	S.CER GRM31M2C2H470JV01L (GRM42-6 CH)	T	80.2/47.6
C255	4030017460	S.CER C1005 JB 1H 102K-T	T	81.6/31.8
C256	4030017460	S.CER C1005 JB 1H 102K-T	B	102.2/20.5
C257	4030017460	S.CER C1005 JB 1H 102K-T	T	81.3/30.6
C258	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/22.0
C260	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/49.8
C261	4030020000	S.CER C1005 JB 1A 105K-T	B	97.9/22.0
C262	4030017460	S.CER C1005 JB 1H 102K-T	B	106.7/20.4
C263	4030017460	S.CER C1005 JB 1H 102K-T	T	82.5/27.6
C265	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/47.7
C266	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	95.7/45.6
C267	4030017460	S.CER C1005 JB 1H 102K-T	T	80.1/30.2
C269	4030019990	S.CER C1005 JB 1C 104K-T	T	82.3/26.0
C270	4030017640	S.CER C1005 CH 1H 150J-T	B	106.3/23.4
C271	4030017460	S.CER C1005 JB 1H 102K-T	T	78.9/30.6
C272	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/43.5
C274	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/41.4
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	86.4/27.9
C276	4030017460	S.CER C1005 JB 1H 102K-T	B	112.0/19.5
C277	4030017460	S.CER C1005 JB 1H 102K-T	T	84.7/26.2
C278	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/39.3
C279	4030017680	S.CER C1005 CH 1H 820J-T	B	110.8/21.5
C280	4030017460	S.CER C1005 JB 1H 102K-T	T	89.0/37.7
C281	4030018940	S.CER GRM31A7U2J331JW31D	T	98.1/35.9
C282	4030018940	S.CER GRM31A7U2J331JW31D	T	96.0/35.9
C283	4030018940	S.CER GRM31A7U2J331JW31D	T	93.7/35.9
C284	4030017460	S.CER C1005 JB 1H 102K-T	T	68.7/24.3
C285	4030019990	S.CER C1005 JB 1C 104K-T	T	86.4/28.8
C287	4030017380	S.CER C1005 CH 1H 050B-T	B	110.8/23.1
C288	4030019420	S.CER GRM31A7U2J102JW31D	T	104.3/32.0
C291	4030011170	S.CER GRM31M2C2H180JV01L (GRM42-6 CH)	B	104.3/34.6
C292	4030017460	S.CER C1005 JB 1H 102K-T	B	111.2/26.3
C293	4030017550	S.CER C1005 CH 1H 1R5B-T	T	110.2/23.1
C295	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	109.1/41.9
C296	4030007020	S.CER C1608 CH 1H 120J-T	B	104.7/41.5
C298	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	B	104.3/39.8
C299	4030017460	S.CER C1005 JB 1H 102K-T	B	101.9/42.4
C300	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	B	100.3/51.6
C302	4030017390	S.CER C1005 CH 1H 180J-T	T	108.8/26.9
C303	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	103.4/47.8
C304	4030007020	S.CER C1608 CH 1H 120J-T	B	99.4/49.4
C305	4030011050	S.CER GRM31M3C2H3R0CY21L (GRM42-6 CJ)	T	98.7/29.9
C306	4030011210	S.CER GRM31M2C2H330JV01L (GRM42-6 CH)	B	100.3/56.9
C307	4030011160	S.CER GRM31M2C2H150JV01L (GRM42-6 CH)	B	104.2/63.1
C308	4030017450	S.CER C1005 JB 1H 271K-T	B	98.6/4.1
C309	4030017460	S.CER C1005 JB 1H 102K-T	T	97.9/1.2
C310	4030019990	S.CER C1005 JB 1C 104K-T	T	108.0/8.8
C311	4030019990	S.CER C1005 JB 1C 104K-T	T	99.7/5.6
C312	4030019990	S.CER C1005 JB 1C 104K-T	T	100.0/11.8
C313	4030019990	S.CER C1005 JB 1C 104K-T	T	111.5/10.0
C314	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/48.9
C315	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/60.5
C319	4510010010	S.ELE 25 CE 220 LX	T	22.4/16.6
C321	4030020000	S.CER C1005 JB 1A 105K-T	T	23.2/52.4
C322	4030019990	S.CER C1005 JB 1C 104K-T	B	14.6/16.5
C323	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	T	86.3/45.6
C332	4550007090	S.TAN TEESVA 1A 226M8R	T	68.5/10.7
Eqv.	4550008160	S.TAN F931A226MAA		
C333	4030016970	S.CER C1005 JB 1E 223K-T	B	25.6/3.6
C334	4030019460	S.CER C1608 JB 0J 106M-T	T	71.7/16.4
J1	6510028390	S.CON 04-6294-036-000-800	T	60.0/6.8
J2	6510014961	S.CON B2B-ZR-SM4-TF(LF)(SN)	T	8.9/56.5
J3	6510025940	CON PJ-3047S <XIN>		
W1	8900011882	CAB OPC-1210A-1(P0.5N36L70) <TJM>		
W2	7030012290	JUM RDS2T0R0		
W6	8900015130	CAB OPC-1131A <TJM>		

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

[MAIN UNIT]

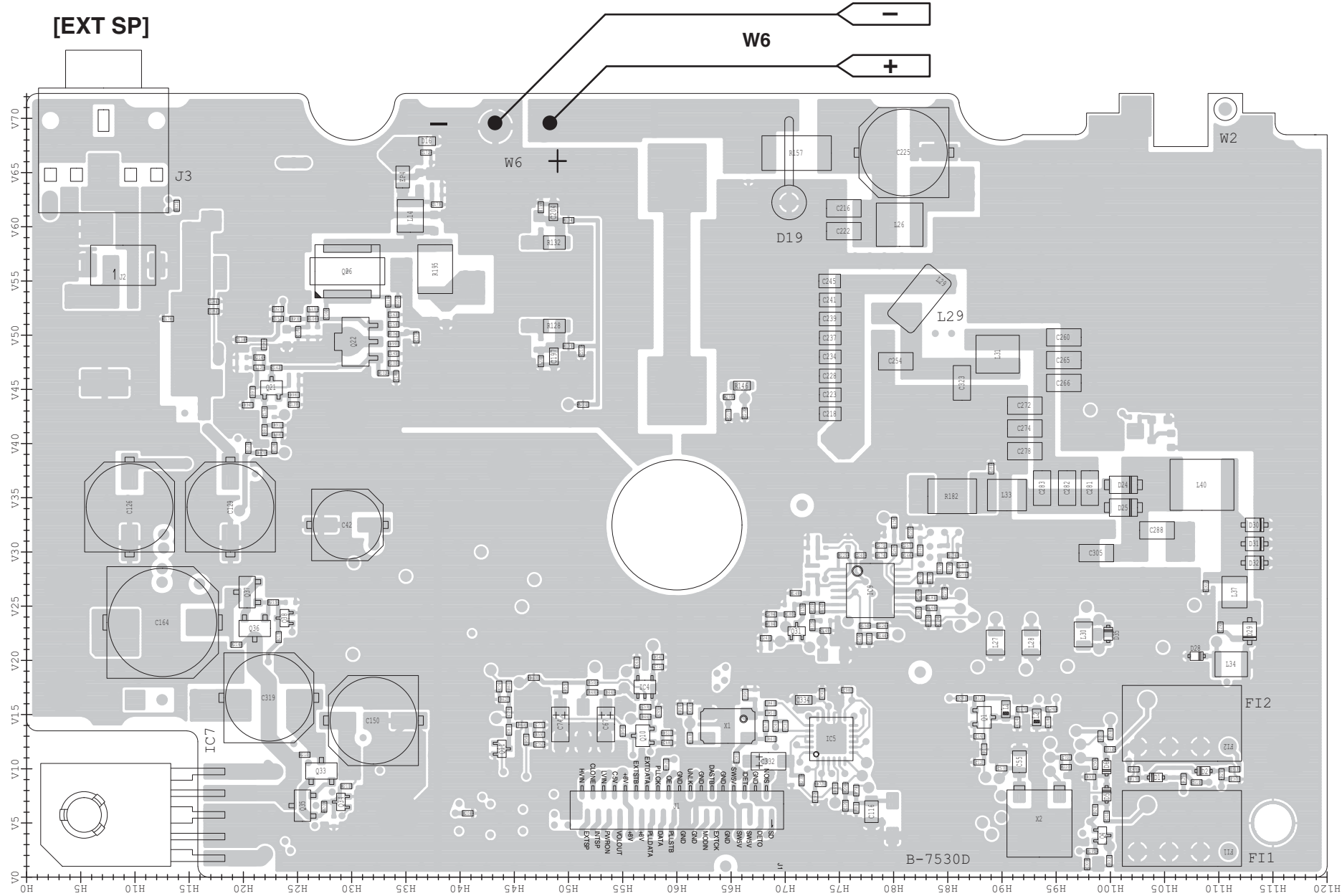
REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
EP3	6910018460	S.BEA MMZ1005Y102C-T	T	24.8/51.5
EP4	6910014730	S.BEA MPZ2012S331A-T	T	34.7/64.6
EP5	6910020610	S.BEA BLM15BD102SN1D	B	45.7/26.3

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

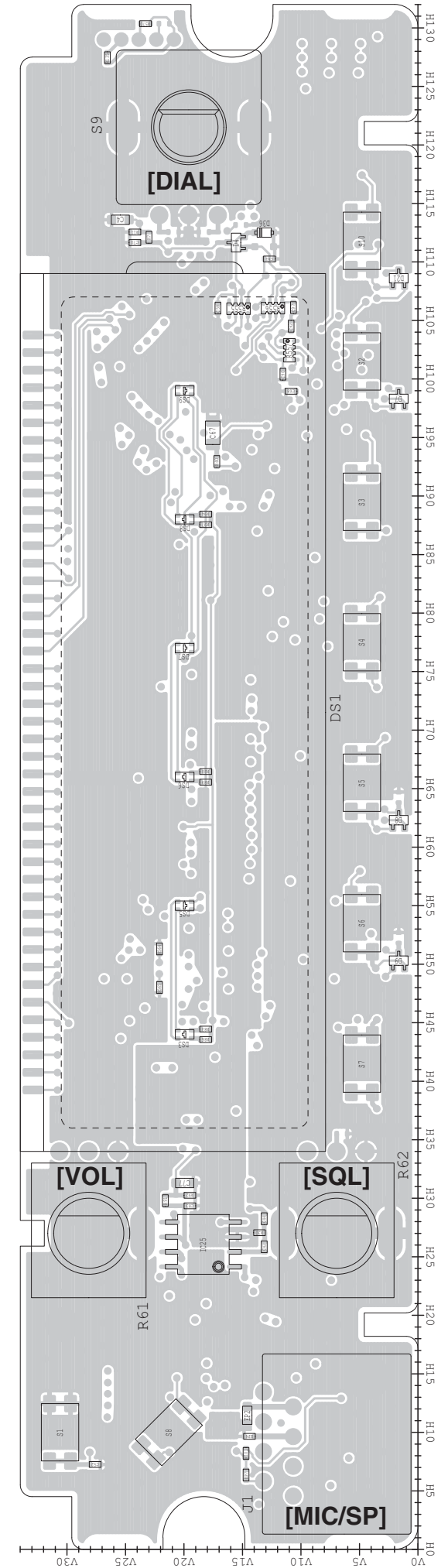
# BOARD LAYOUTS

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

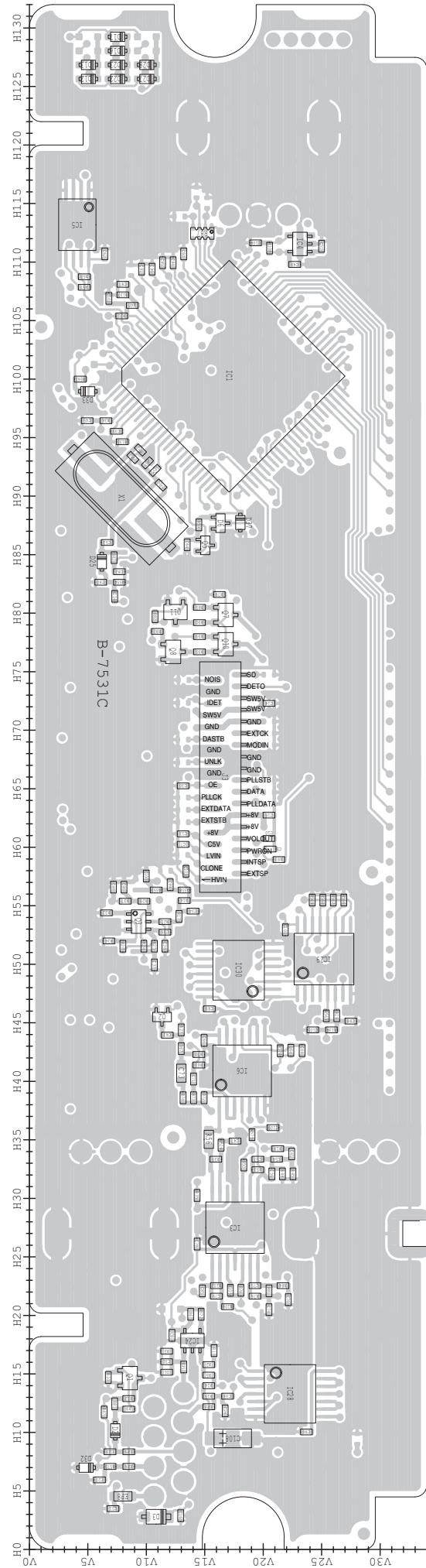
## • MAIN UNIT (TOP VIEW)



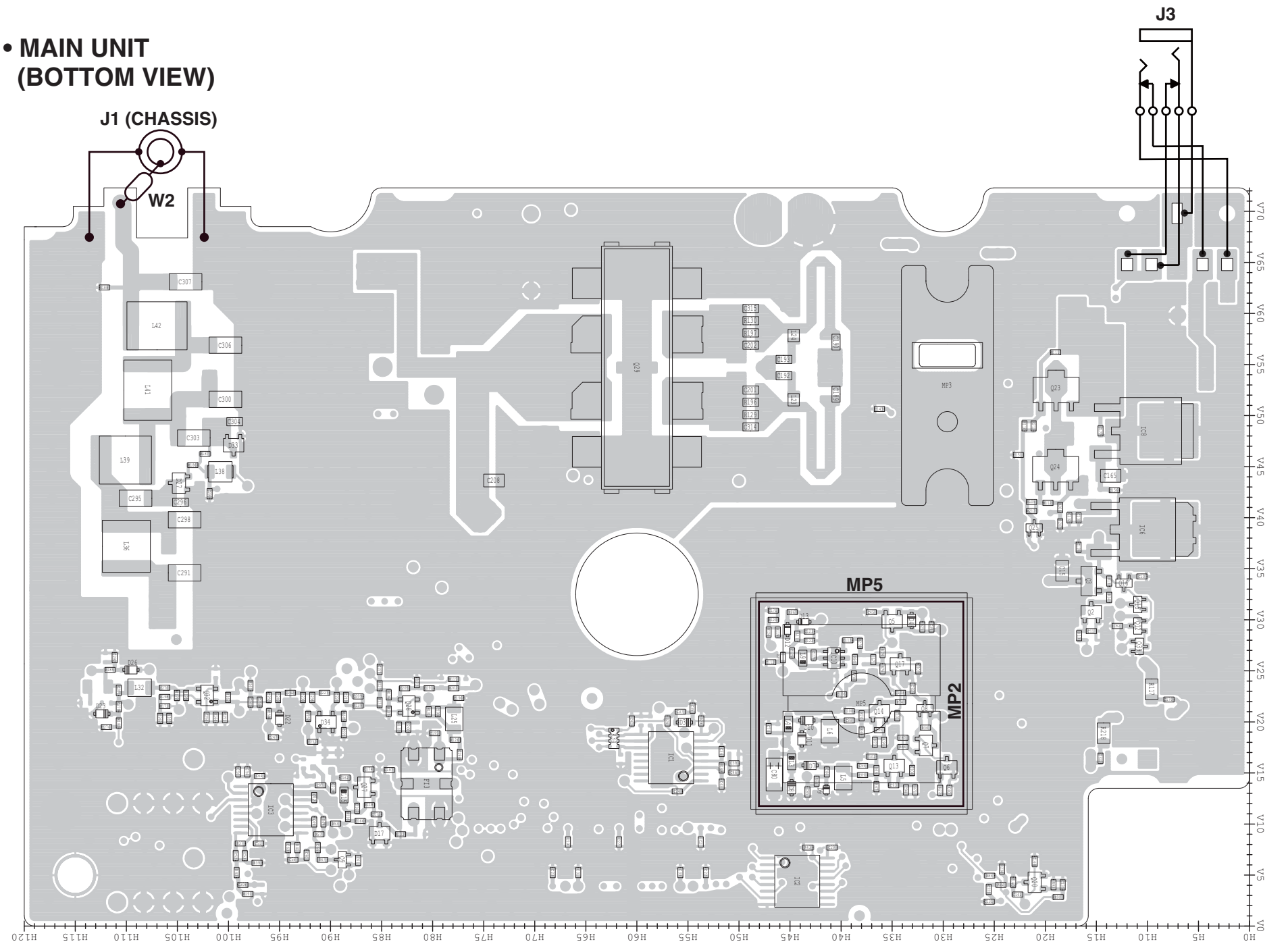
## • LOGIC UNIT (TOP VIEW)



• LOGIC UNIT (BOTTOM VIEW)

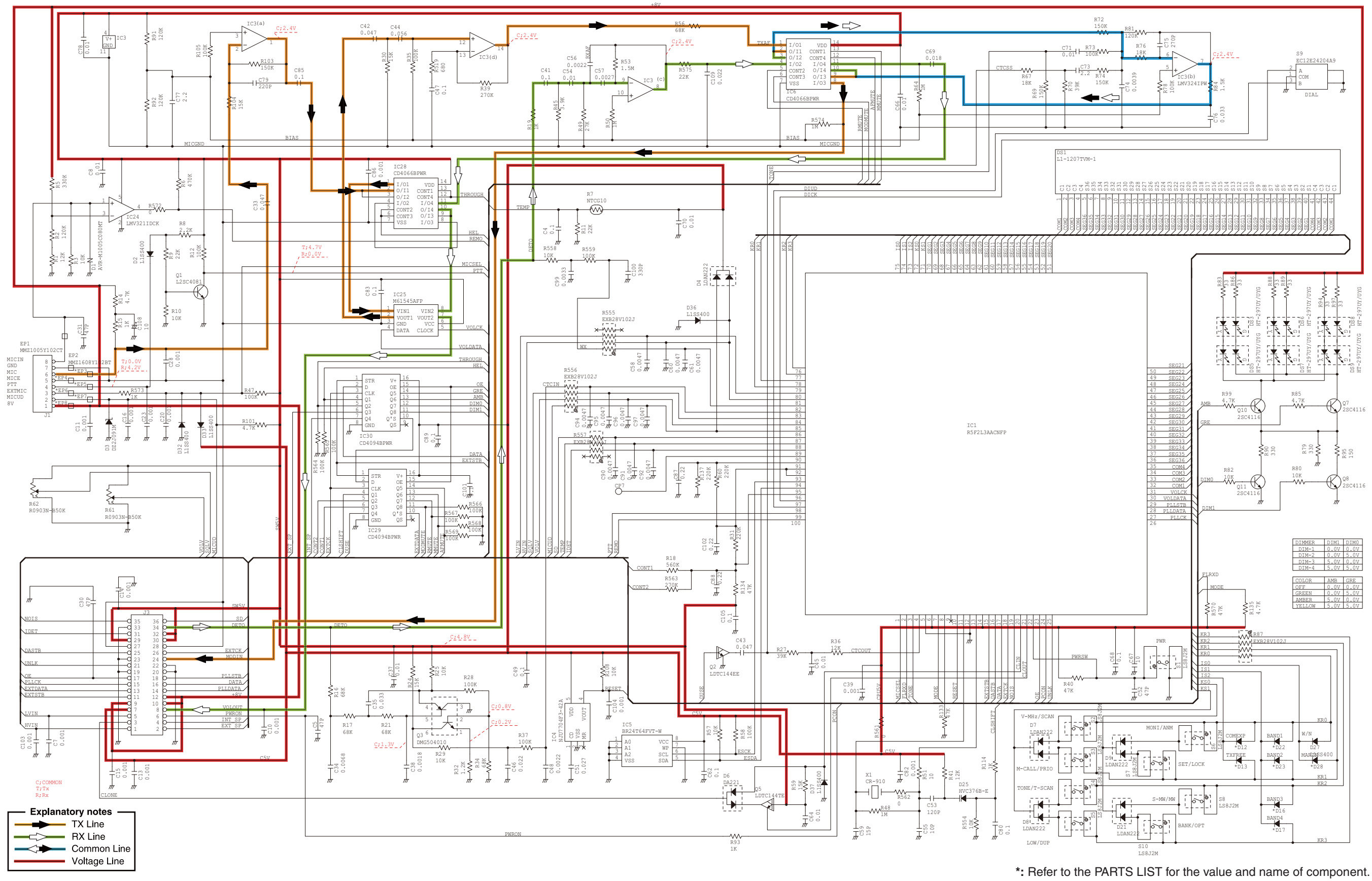


• MAIN UNIT (BOTTOM VIEW)



# VOLTAGE DIAGRAM

## • LOGIC UNIT



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



# SERVICE MANUAL

FM TRANSCEIVER

# IC-2300H

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S-14811XZ-C1  
Dec. 2011

Icom Inc.

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## INTRODUCTION

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This service manual describes the latest technical information for the **IC-2300H** FM TRANSCEIVER, at the time of publication.

MODEL	VERSION	TX POWER
IC-2300H	TPE	24 W
	USA	65 W
	KOR	50 W
	EXP-01	65 W
	EXP-02	

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## CAUTION

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

**DO NOT** 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.

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



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## ORDERING PARTS

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

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

### <ORDER EXAMPLE>

1110003491 S.IC TA31136FNG IC-2300H MAIN UNIT 5 pieces  
8820001210 Screw 2438 screw IC-2300H Top cover 10 pieces

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

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## REPAIR NOTES

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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 40 to 60 dB attenuator between the transceiver and a Deviation Meter or Spectrum Analyzer, when using such test equipment.
8. **READ** the instructions of the test equipment thoroughly before connecting it to the transceiver.

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# SECTION 1




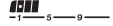
# SPECIFICATIONS

## ■ GENERAL

- Frequency coverage : (unit: MHz)
  - USA Tx: 144–148/Rx: 136–174\*
  - Export Tx: 136–174\*/Rx: 136–174\*
  - Taiwan, Korea Tx/Rx: 144–146
- \*Guaranteed: 144–148 MHz range only.
- Type of emission : FM
- Number of memory channels : 207 (incl. 6 scan edges and 1 Call)
- Scan types : Full, Program, Priority, Memory channel, Bank, Skip, Tone scans
- Frequency resolution : 5, 6.25, 10, 12.5, 15, 20, 25, 30, 50 kHz
- Operating temperature range : -10°C to +60°C; +14°F to +140°F
- Frequency stability : ±3 ppm (-10°C to +60°C)
- Power supply requirement : 13.8 V DC ±15%
- Current drain (at 13.8 V DC: approximately):
  - Transmit at 65 W 11 A  
(less than 9 A at 24 W for the Taiwan version)
  - Receive standby 0.4 A  
max. audio 1.5 A
- Antenna connector : SO-239 (50 Ω)
- Dimensions (proj. not included) : 140.0(W)×40.0(H)×118.0(D) mm;  
5.5(W)×1.6(H)×4.6(D) in
- Weight (approximately) : 1.1 kg; 2.4 lb

## ■ TRANSMITTER

- Modulation system : Variable reactance frequency mod.
- Output power (approximately) :

	USA, Export	Taiwan	Korea
High: 	65 W	24 W	50 W
Mid: 	25 W	10 W	25 W
Mid-Low: 	10 W	–	10 W
Low: 	5 W	5 W	5 W

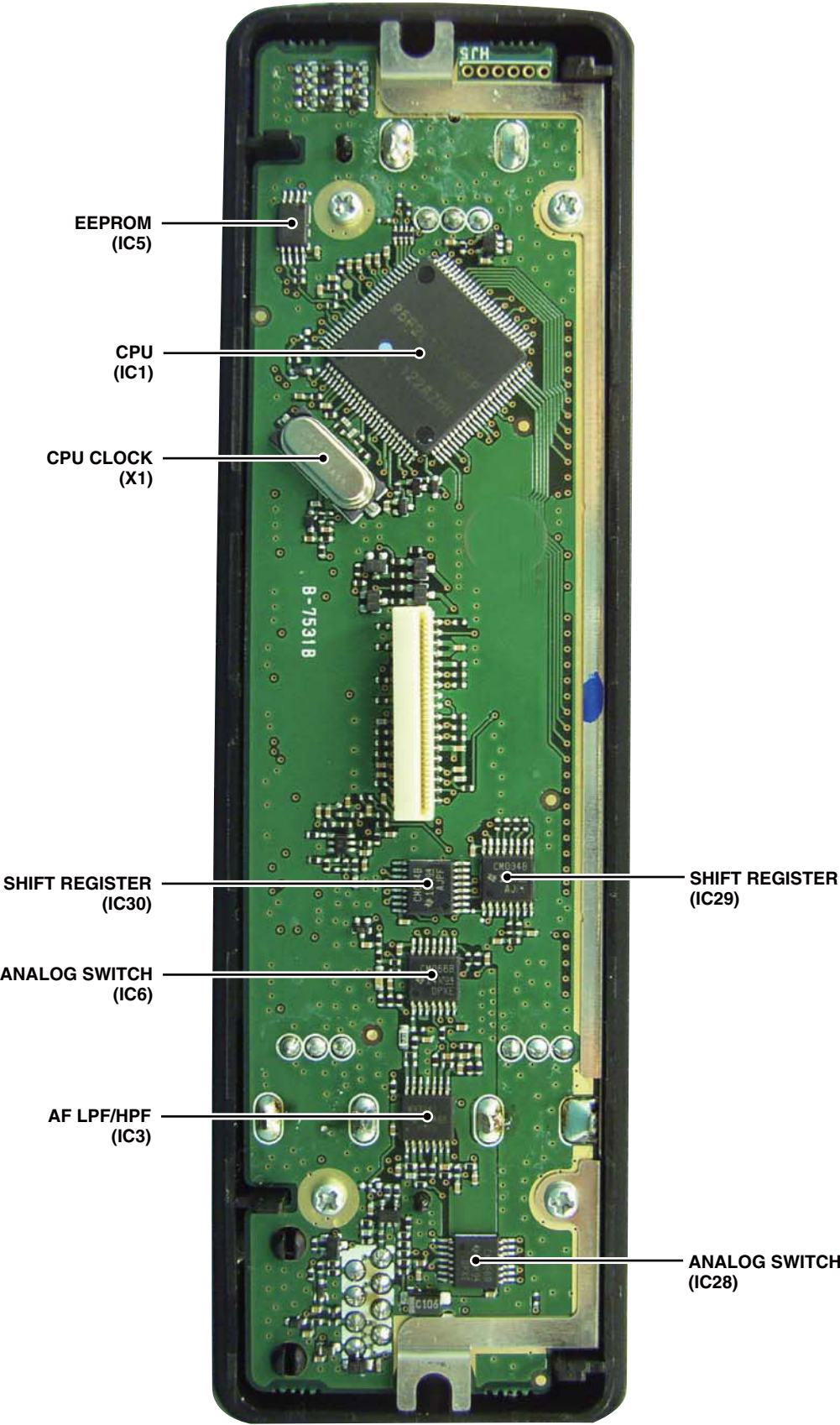
- Max. frequency deviation : ±5.0 kHz (Wide)/±2.5 kHz (Narrow)
- Spurious emissions : Less than -60 dBc
- Microphone connector : 8-pin modular (600 Ω)

## ■ RECEIVER

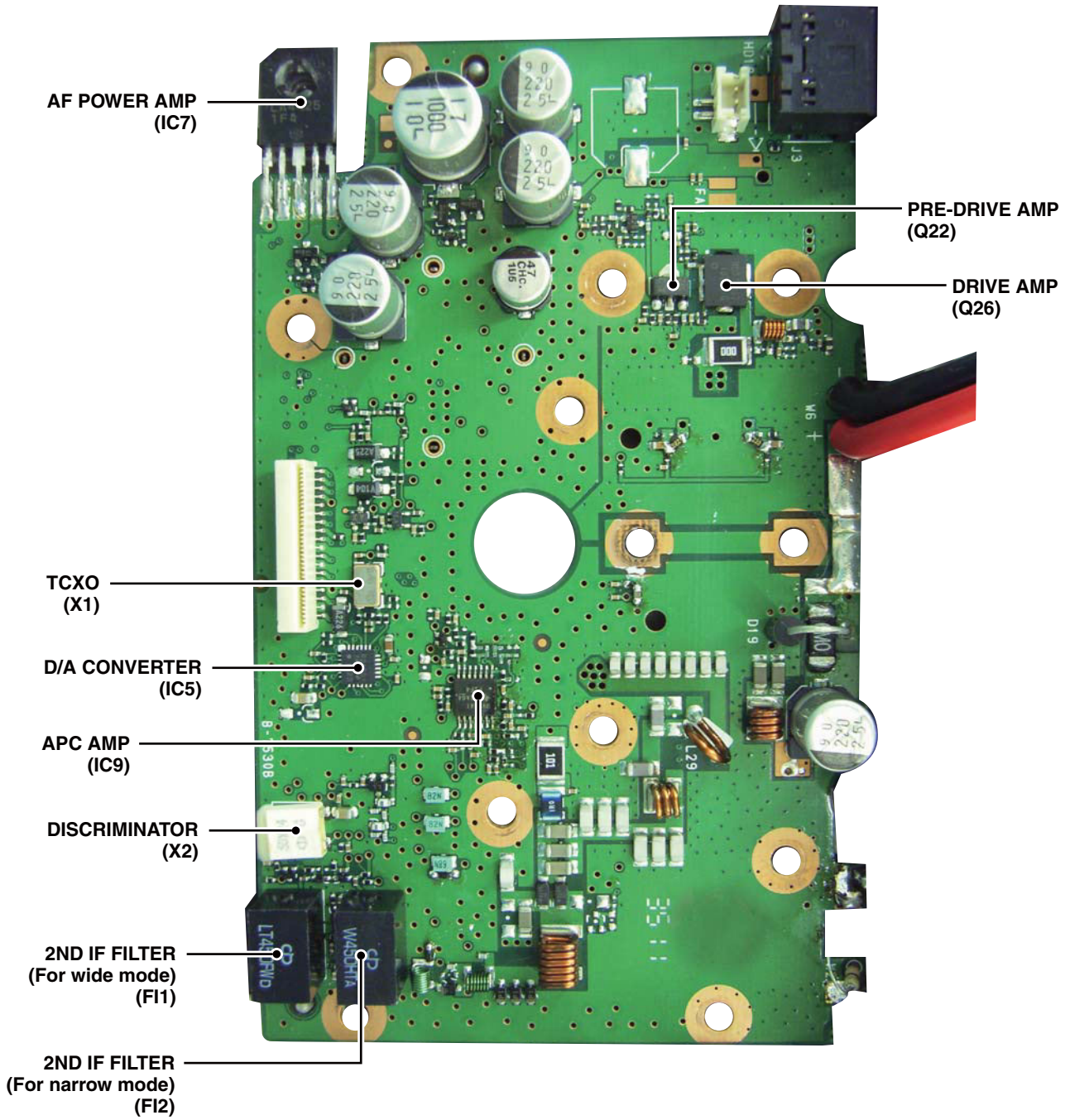
- Receive system : Double-conversion superheterodyne
- Intermediate frequencies : 1st: 46.35 MHz, 2nd: 450 kHz
- Sensitivity (at 12 dB SINAD) : Less than 0.18 μV
- Squelch sensitivity : Less than 0.13 μV (threshold)
- Selectivity :
  - [Wide] More than ±6 kHz/6 dB  
Less than ±14 kHz/60 dB
  - [Narrow] More than ±3 kHz/6 dB  
Less than ±9 kHz/55 dB
- Spurious and image rejection : More than 60 dB
- AF output power (at 13.8 V DC) : More than 3.5 W (4.5 W typical)  
(at 10% distortion with a 4 Ω load)
- External speaker connector : 3-conductor 3.5 (d) mm (1/8 inch)/4 Ω

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

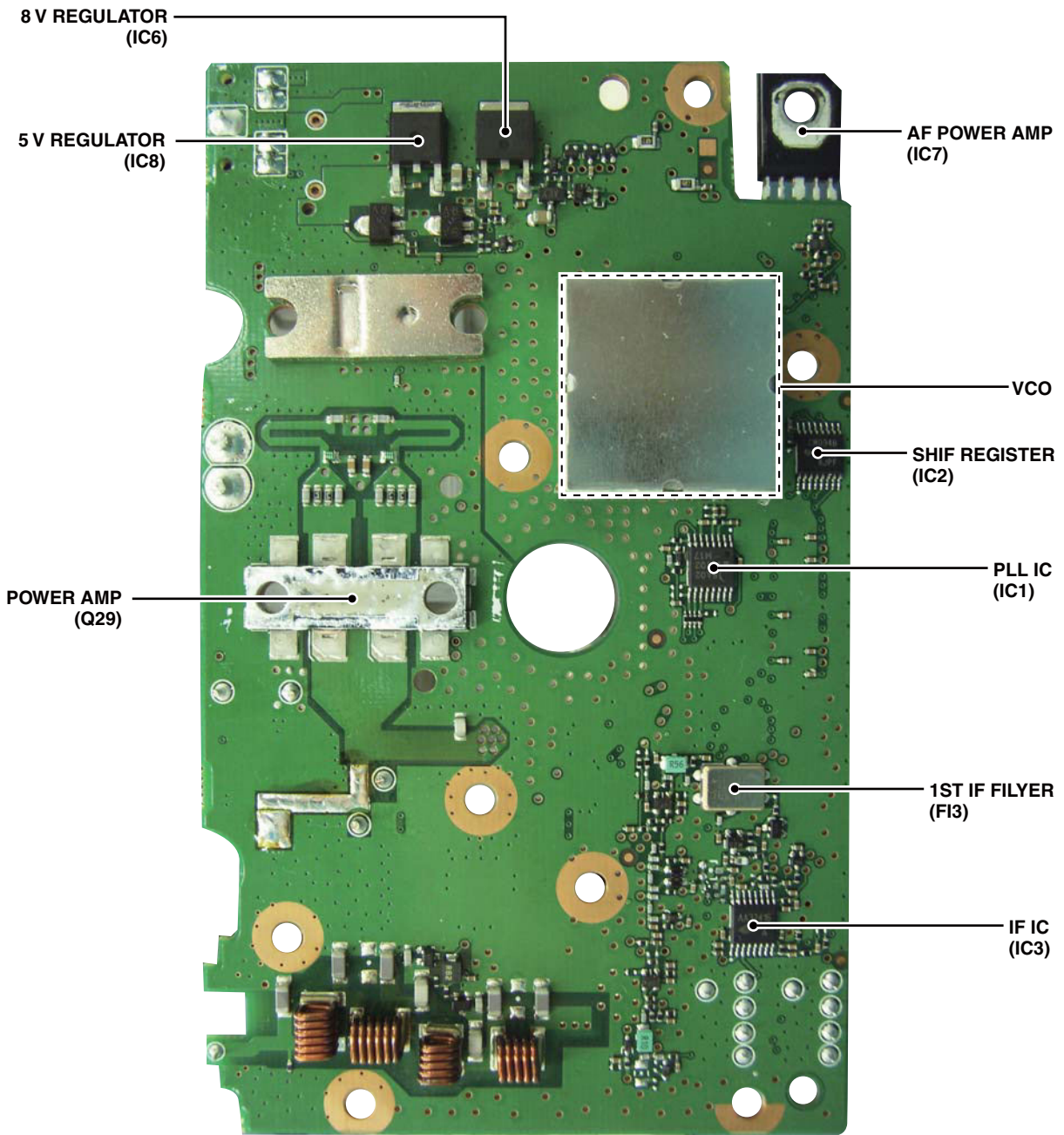
• LOGIC UNIT



• MAIN UNIT  
(TOP VIEW)



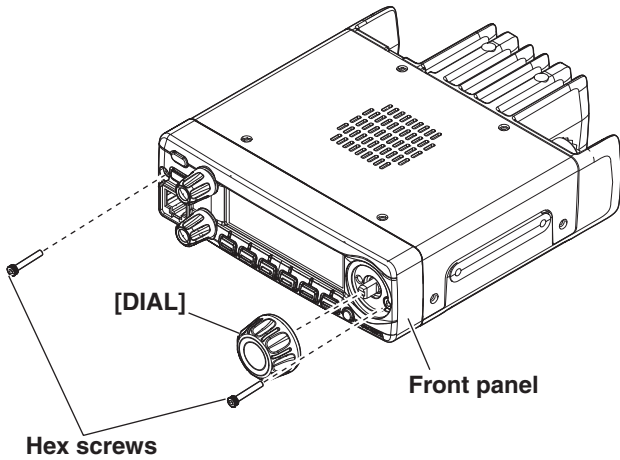
• MAIN UNIT  
(BOTTOM VIEW)



## SECTION 3 DISASSEMBLY INSTRUCTION

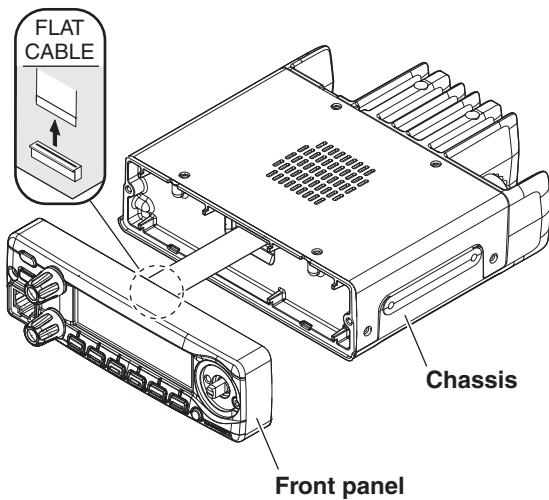
### REMOVING THE FRONT PANEL

- 1) Remove [DIAL] from the front panel.
- 2) Remove 2 hex screws from the front panel.



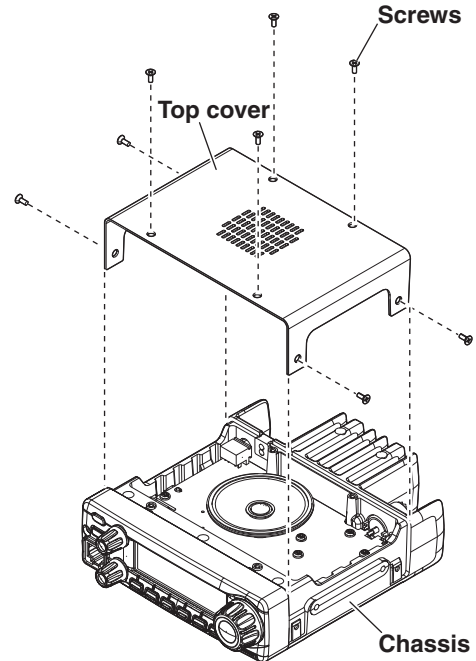
- 3) CAREFULLY separate the front panel from the chassis.
- 4) Disconnect the flat cable from the LOGIC UNIT.

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

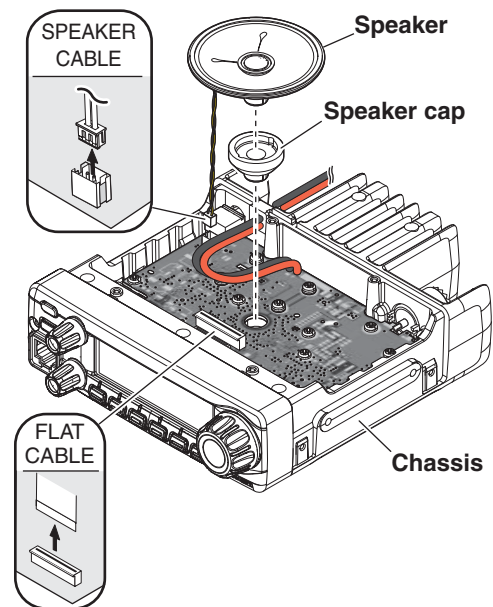


### REMOVING THE MAIN UNIT

- 1) Remove 8 screws from the top cover, and then remove the top cover from the chassis.



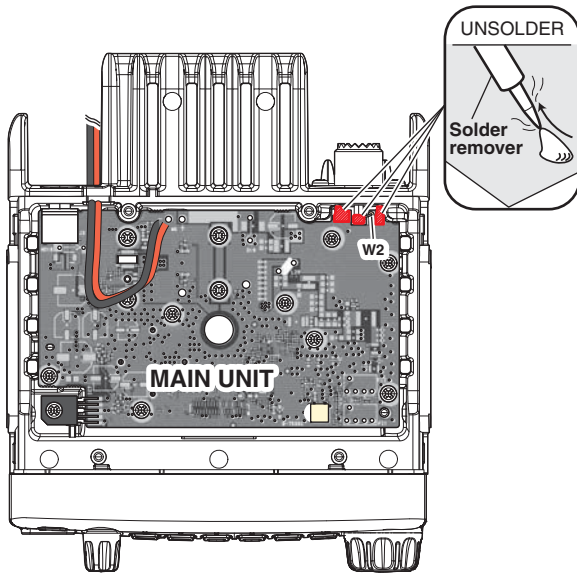
- 2) Disconnect the flat cable from the MAIN UNIT.
- 3) Disconnect the speaker cable from the MAIN UNIT.
- 4) Remove the speaker and speaker cap from the MAIN UNIT.



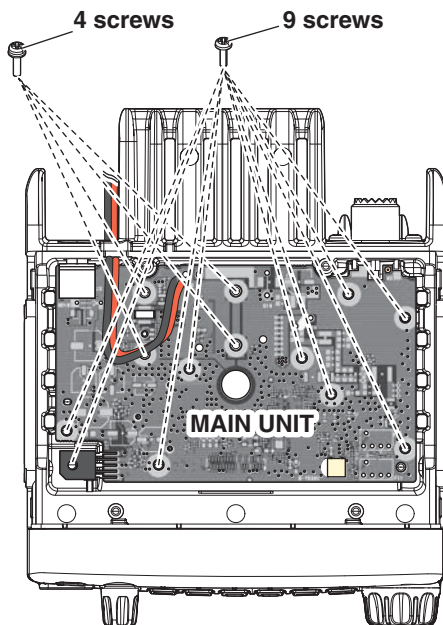
(Continued on page 3-2.)

REMOVING THE MAIN UNIT (Continued)

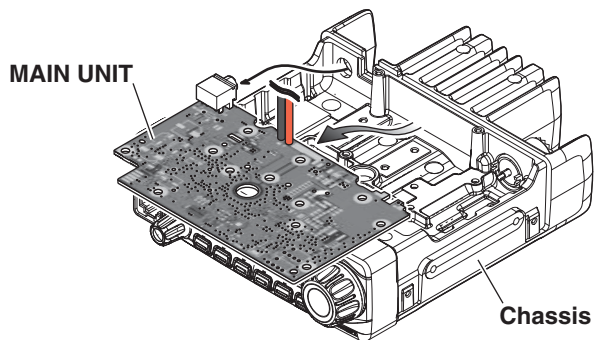
5) Unsolder 3 points at the antenna connector.



6) Remove the total of 13 screws from the MAIN UNIT.



7) Remove the MAIN UNIT from the chassis in the direction of the arrow.

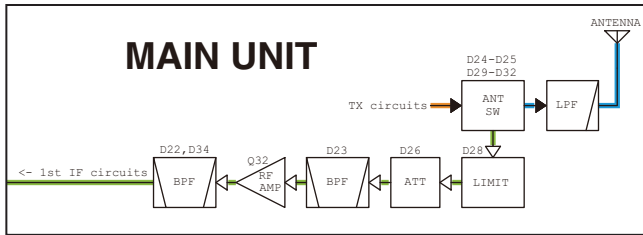


## 4-1 RF CIRCUITS

The RX signal from the antenna is passed through the LPF (L36, L39, L41, L42, C291, C295, C296, C298, C300, C303, C304, C306, C307), antenna SW (D29–D32) and tuned BPF (D23, L34, C279), and then applied to the RF AMP (Q32).

The amplified RX signal is passed through a two-staged tuned BPF (D22, D34, L27, L28, C213, C224, C227, C236, C238, C242, C249), and then applied to the 1st IF circuits.

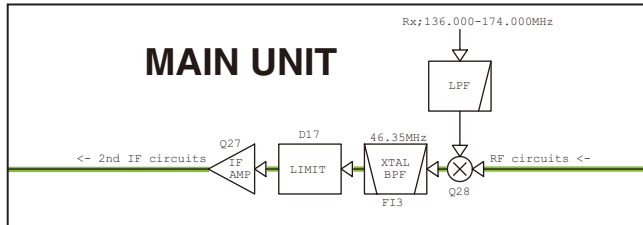
### • RF CIRCUITS



## 1ST IF CIRCUITS

The RX signal from the RF circuits is applied to the 1st mixer (Q28), to be mixed with the 1st LO signal from the RX VCO (Q14, D10–D11, L6), resulting in the 46.35 MHz 1st IF signal. The 1st IF signal is passed through the 1st IF filter (FI3) to remove unwanted signals, and then applied to the 1st IF AMP (Q27). The amplified 1st IF signal is applied to the 2nd IF circuits.

### • 1ST IF CIRCUITS



## 2ND IF CIRCUITS

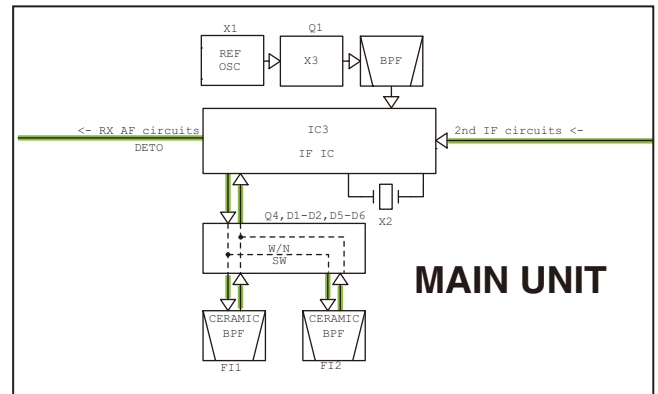
The 1st IF signal from the 1st IF circuits is applied to the IF IC (IC3).

The IF IC contains the 2nd mixer, 2nd IF AMP, detector, and so on, in its package.

The 1st IF signal is mixed with the 2nd LO signal at the internal 2nd mixer, resulting in the 455 kHz 2nd IF signal. The 2nd IF signal is passed through the 2nd IF filter (FI1: for wide mode, FI2: for narrow mode) to remove sideband noise, and then applied to the internal 2nd IF AMP. The amplified 2nd IF signal is applied to the quadrature detector circuit for frequency-demodulation.

The demodulated AF signal is output from the IF IC (pin 9), and then applied to the RX AF circuits on the LOGIC UNIT.

### • 2ND IF CIRCUITS

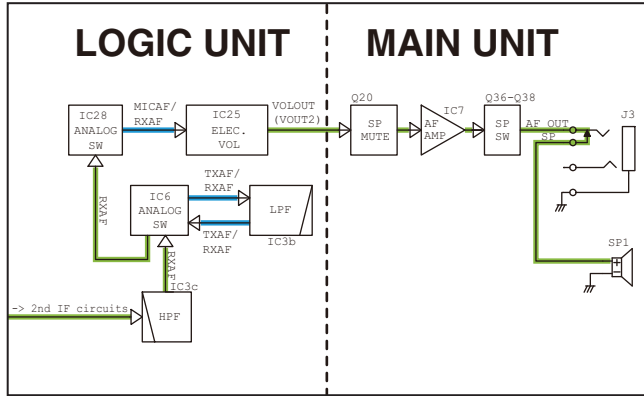


## RX AF CIRCUITS

The demodulated AF signal from the MAIN UNIT is passed through the HPF (IC3c), AF line SW (IC6), LPF (IC3d), AF line SW (IC6), another AF line SW (IC28) and the electronic volume (IC25) for adjustment in level. The level-adjusted AF signal is applied to the MAIN UNIT.

The AF signal is applied to the AF AMP (IC7), through the speaker mute SW (Q20). The amplified AF signal is output to the internal speaker through the speaker mute SWs (Q33, Q35–Q37), or external speaker through the speaker mute SW (Q36, Q37) and the [SP] connector.

### • RX AF CIRCUITS



## SQUELCH CIRCUIT

The squelch circuit cuts off the AF output signal while no RF signal is received. Detecting noise components in the demodulated AF signal, the squelch circuit stops audio signal from being emitted.

A portion of the demodulated AF signal from the IF IC (IC3) is passed through the D/A converter (IC5) for level (=threshold) adjustment. The level-adjusted AF signal is passed through the noise filter (IC3, pins 7, 8 and R37, R39, R40, R191, C52, C53, C308) to filter only the noise components (approximately 30 kHz signals). The noise components are rectified by the noise detector, resulting in a DC voltage corresponding to the noise level.

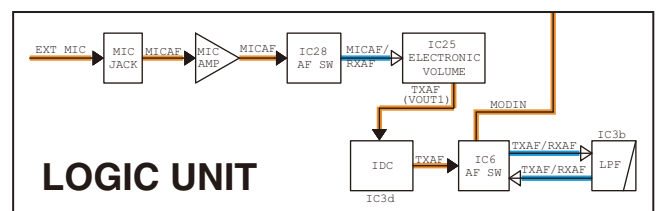
When the noise level is higher than the preset one, the internal comparator sets the "NOIS" signal to the CPU to "High," and then the CPU controls the speaker mute SW (Q20) to stop audio signal from being emitted.

## 4-2 TX AF CIRCUITS

The AF signal from the microphone (MIC signal) is applied to the MIC AMP (IC3a), through the [MIC] jack. The amplified MIC signal is passed through the AF line SW (IC28) and the electronic volume (IC25) for adjustment in level. The level-adjusted AF signal is applied to the IDC (IC3d) which functions as the splatter filter.

The filtered MIC signal is passed through another AF line SW (IC6) and LPF (IC3b), then fed back to the AF line SW (IC6), and then applied to the modulation circuit on the MAIN UNIT.

### • TX AF CIRCUITS

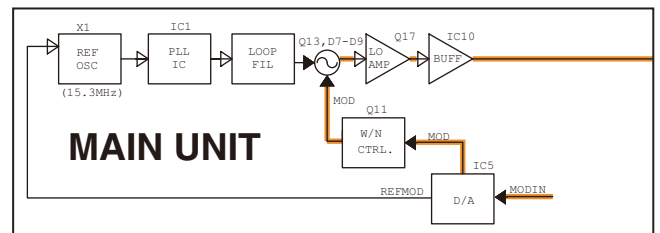


## MODULATION CIRCUIT

The MIC signal from the LOGIC UNIT is applied to the D/A converter (IC5) for adjustment in level (=deviation). The level-adjusted MIC signal is applied to the TX VCO (Q13, D7–D9) as a modulation signal.

The modulated TX VCO output signal is amplified by the LO AMP (Q17), and then applied to the TX AMP circuit as the TX signal, through the buffer (IC10), LO SW (D13) and another buffer (Q21).

### • MODULATION CIRCUITS



## TX AMP CIRCUITS

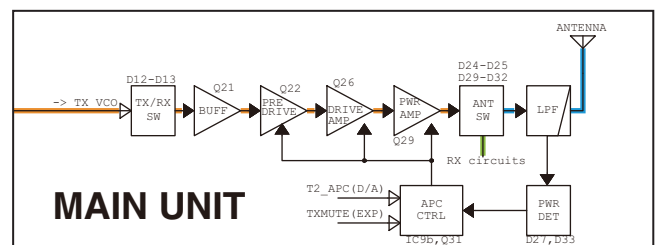
The TX signal is sequentially amplified by the pre-drive (Q22), drive (Q26) and power AMP (Q29). The amplified TX signal is applied to the antenna, through the ANT SW (D24, D25) and LPF (L36, L39, L41, L42, C291, C295, C296, C298, C300, C303, C304, C306, C307).

## APC CIRCUIT

The voltage produced on both sides of L39 is rectified by D27 and D33, and used as the TX power sensing voltage. The voltage is applied to the APC AMP (IC9b), and the output voltage controls the gate voltages of Q29, Q26 and Q22.

The voltage difference between both sides of R157 is detected by IC9d, to control the TX power when abnormal current is detected.

### • TX AMPLIFIER AND APC CIRCUITS



### 4-3 FREQUENCY SYNTHESIZER

The 2300H has two VCOs; TX VCO and RX VCO.

While transmitting, the TX VCO (Q13, D7–D9, L5) is activated. The oscillating frequency is set by the value of C89, L5, D7 and D8. Applying the voltage to both D7 and D8, the wide oscillating frequency range is obtained. The modulation signal is applied to D9 to obtain Frequency Modulation.

While receiving, the RX VCO (Q14, D10–D11, L6) is activated. The oscillating frequency is set by the value of C88, L6, D10 and D11. Applying the voltage to both D10 and D11, the wide oscillating frequency range is obtained.

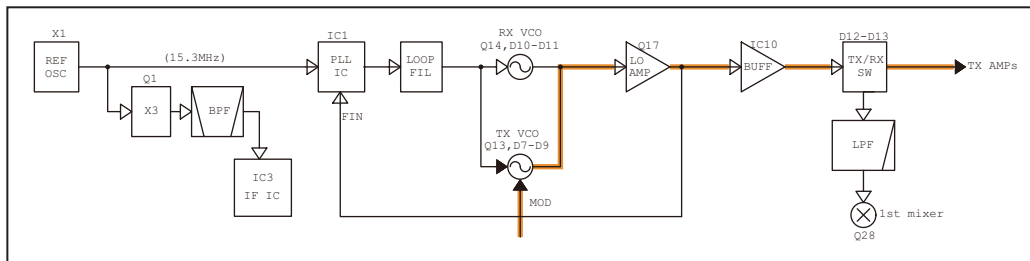
Q6, Q7 and Q8 compose a power supply line SW which toggles the TX and RX VCOs.

The output signal from each VCO is passed through the buffer (Q17) and applied to the PLL IC (IC1).

IC1 phase-compares the output of TCXO (X1) and VCO, and the phase-difference is output as the charge pump current. The current is passed through the loop filter to be converted into the lock voltage, which controls the oscillating frequency of each VCO.

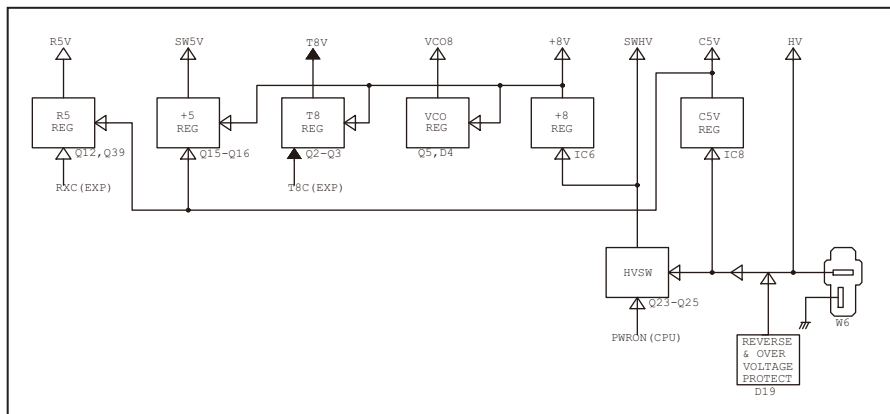
The output of Q17 is passed through the buffer (IC10), and used as the TX/RX LO signal.

#### • FREQUENCY SYNTHESIZER



### 4-4 VOLTAGE DIAGRAM

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



## 4-5 PORT ALLOCATIONS

### • CPU (LOGIC UNIT: IC1)

Pin No.	Line Name	Description	I/O
1	MICSEL	Microphone connection detect.	I
3	TONE	DTMF/BEEP/1750Hz tone signal.	O
4	CTCOUT	Tone signal (CTCSS/DTCS) encoding output.	O
10	RESET	CPU (LOGIC UNIT: IC1) reset signal. H=The CPU is reset.	I
15	EXTSTB	Shift register (MAIN UNIT: IC2) serial strobe.	O
16	DASTB	D/A converter (MAIN UNIT: IC5) strobe.	O
17	DATA	Shift register (MAIN UNIT: IC2) serial data.	O
18	EXTCK	Shift register (MAIN UNIT: IC2) serial clock.	O
19	NOIS	Noise level detect.	I
20	CLIN	Cloning data.	I
21	CLOUT	Cloning data.	O
22	PWRSW	[P] input. L= Pushed.	I
23	OE	Shift register (MAIN UNIT: IC2) chip enable.	O
24	PCON	Main power supply line control. H=During the transceiver is ON.	O
25	UNLK	PLL unlock detect. L=Unlocked.	I
26	PLLCK	PLL IC (MAIN UNIT: IC1) serial clock.	O
27	PLLDATA	PLL IC (MAIN UNIT: IC1) serial data.	O
28	PLLSTB	PLL IC (MAIN UNIT: IC1) strobe.	O
29	VOL-DATA	Electronic volume (LOGIC UNIT: IC25) serial data.	O
30	VOLCK	Electronic volume (LOGIC UNIT: IC25) serial clock.	O
71, 72	KS1, KS0	Key input ports.	I
76-79	KR3-KR0		I
80	LVIN	Lock voltage input.	I
81	HVIN	Power source voltage.	I
82	WX	Weather alert signal.	I
83	CTCIN	Tone signal (CTCSS/DTCS) decoding input.	I
84	SQLV	[SQL] input.	I
85	VOLV	[VOL] input.	I
86	MICUD	Up/down key on the microphone.	I
87	SD	RSSI voltage from the IF IC (MAIN UNIT: IC3).	I
88	TEMP	Temperature sensing voltage.	I
89	IDET	TX power AMP current flow sensing voltage.	I
94	ESCK	EEPROM (LOGIC UNIT: IC5) serial clock.	O
95	ESDA	EEPROM (LOGIC UNIT: IC5) serial data.	I/O
97	DICK	Rotary encoder (LOGIC UNIT: S9) pulse. (Phase A)	I
98	DIUD	Rotary encoder (LOGIC UNIT: S9) pulse. (Phase B)	I

Pin No.	Line Name	Description	I/O
99	PTT	[PTT] input. H= Pushed.	I
100	REMO	Microphone connection detect. H=Connected.	I

### • D/A CONVERTER (MAIN: IC5)

Pin No.	Line Name	Description
6, 7	SQLIN	Noise squelch level adjustment.
8	T3	Tuned BPF tracking voltage adjustment.
11	T2_APC	RX: Tuned BPF tracking voltage adjustment. TX: Transmit output power adjustment.
12	T1	Tuned BPF tracking voltage adjustment.
19	FC	Reference frequency adjustment.
20	REFMOD	Reference oscillator deviation adjustment.
22, 23	MOD	VCO deviation adjustment.
24	SQLATT	Squelch attenuator level adjustment.

### • SHIF REGISTER (MAIN: IC2)

Pin No.	Line Name	Description
5	PLLSW	PLL lockup time control. H=Fast lockup mode.
6	TXMUTE	TX mute control. L=Mute.
7	NWC	Narrow/Wide mode switching control. H=Wide mode.
11	SHIFT	VCO switching control. H=While receiving. (The RX VCO (Q14, D10-D11, L6) is activated) L=While transmitting. (The TX VCO (Q13, D7-D9, L5) is activated)
12	T8C	Power supply line "T8C" control. H=While transmitting.
13	RXC	Power supply line "R5V" control. H=While receiving.
14	SPMUTE	Speaker mute control. H=Mute.

# SECTION 5 ADJUSTMENT PROCEDURE

## 5-1 PREPARATION

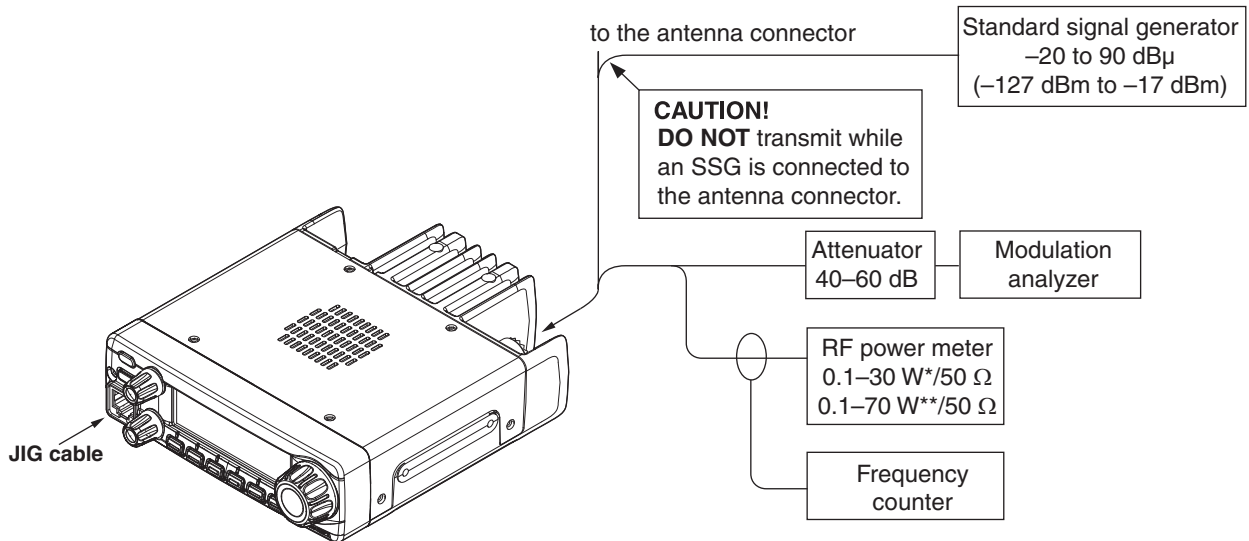
### REQUIRED EQUIPMENT

EQUIPMENT	GRADE AND RANGE	EQUIPMENT	GRADE AND RANGE
RF power meter (50 Ω terminated)	Measuring range : 0.1–30 W*	JIG cable	Modified 8-pin modular plug. (See the illustration shown below.)
	Frequency range : 100–300 MHz SWR : Less than 1.2 : 1	Frequency counter	Range : 0.1–300 MHz Accuracy : ±1 ppm or better Input level : Less than 1 mW
Modulation analyzer	Frequency range : 30–300 MHz Measuring range : 0 to ±10 kHz	Standard signal generator (SSG)	Frequency range : 0.1–300 MHz Output level : –20 dBμ to 90 dBμ (–127 to –17 dBm)
Oscilloscope	Frequency range : DC–20 MHz Measuring range : 0.01–20 V	Attenuator	Attenuation : 40–60 dB Capacity : More than 30 W* More than 70 W**
Audio generator (AG)	Frequency range : 300–3000 Hz Output level : 1–500 mV	External speaker	Input impedance : 4 Ω
		AC millivoltmeter	Measuring range : 10 mV to 10 V

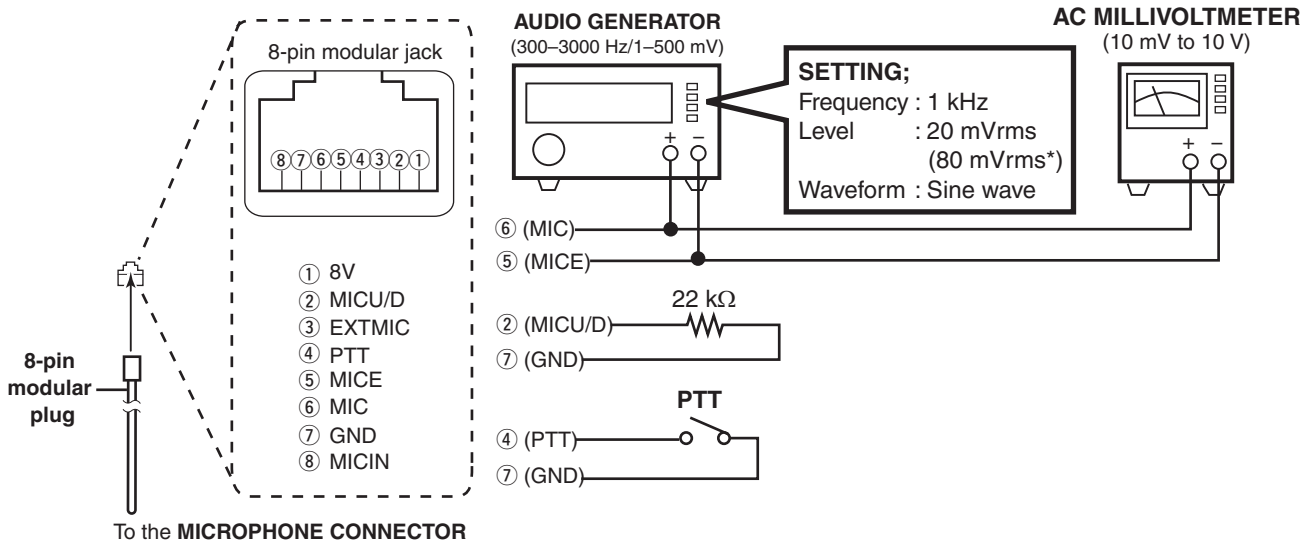
\*; For [TPE]. \*\*; All models except [TPE].

**CAUTION!!: BACK UP** the originally programmed memory data in the transceiver, before starting the adjustments. When the adjustment is finished, the memory data may be cleared.

### CONNECTION



### JIG CABLE



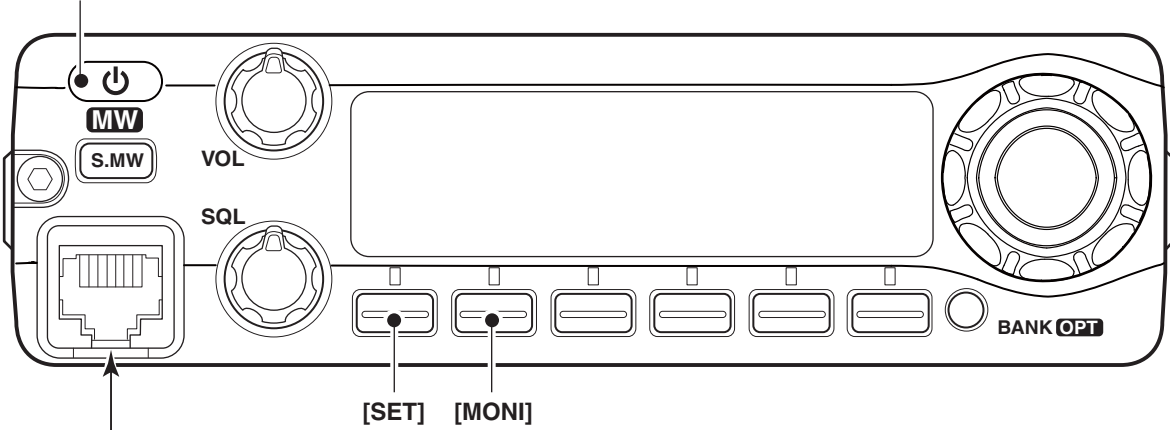
\*; For [USA].

## 5-1 PREPARATION (continued)

### ENTERING THE ADJUSTMENT MODE

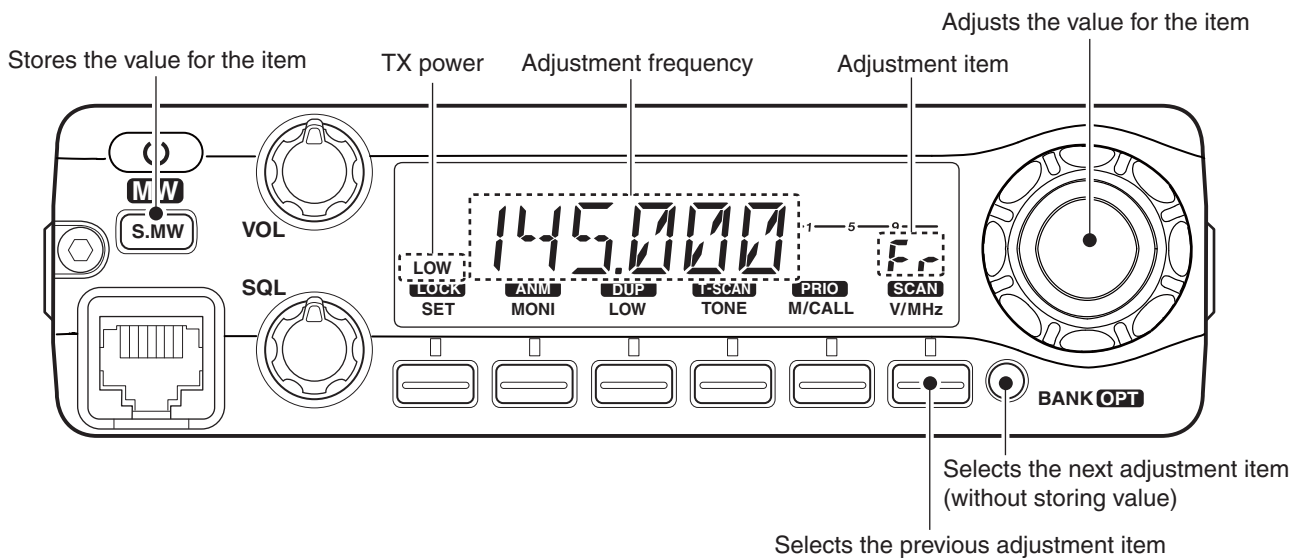
- 1) Turn OFF the power.
- 2) Connect the JIG cable (See page 6-1) to the microphone connector.
- 3) While holding down **[SET]** and **[MONI]**, turn ON the power.

Push to turn ON the power.



Connect the JIG cable (See page 6-1) here.

### KEY ASSIGNMENTS FOR THE ADJUSTMENT MODE



### QUITTING THE ADJUSTMENT MODE

- 1) Turn OFF the power.
- 2) Disconnect the JIG cable, and then turn ON the power.

## 5-2 FREQUENCY ADJUSTMENT

- 1) Select an adjustment item using **[BANK]** or **[V/MHz]**.
- 2) Set or modify the adjustment value as specified using **[DIAL]**, and then push **[S.MW]**.

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
REFERENCE FREQUENCY	1 • Transmitting	<ol style="list-style-type: none"> <li>1) Connect a power meter or dummy load to the antenna connector.</li> <li>2) Loosely couple a frequency counter to the antenna connector.</li> <li>3) While transmitting, adjust the frequency using <b>[DIAL]</b>, and then push <b>[S.MW]</b> to store the adjustment value.</li> </ol>	<b>[F<sub>r</sub>]</b>	145.000000 MHz (146.000000 MHz*) (±100 Hz)

\*: For [USA]

### 5-3 TRANSMIT ADJUSTMENTS

1) Select an adjustment item using [BANK] or [V/MHz].

2) Set or modify the adjustment value as specified using [DIAL], and then push [S.MW].

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE	
<b>TX OUTPUT POWER</b> <b>(Hi power)</b> -Band low- ----- -Band center- ----- -Band high- ----- <b>(Mid power)</b> -Band low- ----- -Band center- ----- -Band high- ----- <b>(Mid-Low power)</b> -Band low- ----- -Band center- ----- -Band high- ----- <b>(Low power)</b> -Band low- ----- -Band center- ----- -Band high-	1	NOTE: Rotating [DIAL] in the TX adjustment mode without actually transmitting will result in an inaccurate adjustment.  • Transmitting  1) Connect an RF power meter to the antenna connector.  2) While transmitting, adjust the frequency using [DIAL], and then push [S.MW] to store the adjustment value.	[Po]	59–61 W (51–53 W <sup>**</sup> )	
	2			65–67 W (51–53 W <sup>**</sup> )	
	3			54–56 W (51–53 W <sup>**</sup> )	
	4			24–26 W (21–23 W <sup>***</sup> )	
	5				
	6				
	7			9–11 W	
	8				
	9				
	10			4–6 W	
	11				
	12				
<b>DV DEVIATION</b> -Band low- ----- -Band center- ----- -Band high-	1	• Transmitting  1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it to; HPF : OFF LPF : 20 kHz  2) Connect an audio generator to the JIG cable, and set it to; Frequency : 1 kHz Level : 20 mVrms (80 mVrms*)  3) While transmitting, adjust the deviation using [DIAL], and then push [S.MW] to store the adjustment value.	[dE]	4.1–4.3 kHz	
	2				
	3				
<b>MODULATION BALANCE</b> -Band low- ----- -Band center- ----- -Band high-	1	• Transmitting  1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it to; HPF : OFF LPF : 20 kHz  2) While transmitting, adjust the deviation using [DIAL], and then push [S.MW] to store the adjustment value.	[dt]	1.50–1.60 kHz	
	2				
	3				
<b>TONES DEVIATION</b> ----- CTCSS ----- DTCS ----- DTMF ----- EUR	1	• Transmitting  1) Connect a modulation analyzer to the antenna connector, through an attenuator, and then set it to; HPF : OFF LPF : 20 kHz  2) While transmitting, adjust the deviation using [DIAL], and then push [S.MW] to store the adjustment value.	[dC]	0.70–0.80 kHz	
	2				
	3		[dd]	3.4–3.6 kHz	
	4		[dF]		
	5		[dU]		

\*: For [USA]    \*\*: For [KOR]    \*\*\*: For [TPE]

## 5-4 RECEIVE ADJUSTMENTS

1) Select an adjustment item using [BANK] or [V/MHz].

2) Set or modify the adjustment value as specified using [DIAL], and then push [S.MW].

ADJUSTMENT	TRANSCEIVER'S CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE	
RX SENSITIVITY -Band low-	1	<b>NOTE:</b> "RX SENSITIVITY" must be adjusted before "S-METER." And when "RX SENSITIVITY" is re-adjusted, "S-METER" must be re-adjusted too.			
		• Receiving	1) Connect an SSG to the antenna connector, and then set it to; Frequency : 136.020 MHz Level† : 0 dBμ (-107 dBm) Modulation : 1 kHz Deviation : ±3.5 kHz 2) Push [S.MW].	[F 1] Push [S.MW]. (Automatic adjustment)	
	-Band center-	2	1) Set the SSG to; Frequency : 155.020 MHz 2) Push [S.MW].	[F 2]	
-Band high-	3	1) Set the SSG to; Frequency : 173.980 MHz 2) Push [S.MW].	[F 3]		
SQUELCH (Wide)	1	• Receiving	1) Connect an SSG to the antenna connector, and then set it to; SSG output : OFF	[S 9]	Push [S.MW]. (Automatic adjustment)
	(Narrow)		2) Push [S.MW].	[S 7]	
S-METER (S1 level setting)	1	<b>NOTE:</b> "RX SENSITIVITY" must be adjusted before "S-METER." And when "RX SENSITIVITY" is re-adjusted, "S-METER" must be re-adjusted too.			
		• Receiving	1) Connect an SSG to the antenna connector and set it to; Frequency : 145.020 MHz (146.020 MHz*) Level† : -7 dBμ (-114 dBm) Deviation : None 2) Push [S.MW].	[S 1] Push [S.MW]. (Automatic adjustment)	
	(S2 level setting)	3	1) Set the SSG to; Level† : -2 dBμ (-109 dBm) Deviation : None 2) Push [S.MW].	[S 2]	
	(S3 level setting)	4	1) Set the SSG to; Level† : +12 dBμ (-95 dBm) Deviation : None 2) Push [S.MW].		
	(S3 level setting) -Band low-	5	1) Connect an SSG to the antenna connector and set it to; Frequency : 136.020 MHz Level† : -2 dBμ (-109 dBm) Deviation : None 2) Push [S.MW].	[S 3]	
	-Band center-	6	1) Set the SSG to; Frequency : 145.020 MHz 2) Push [S.MW].		
	-Band high-	7	1) Set the SSG to; Frequency : 173.980 MHz 2) Push [S.MW].		

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

## SECTION 6

## PARTS LIST

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140015980	S.IC R5F2L3AACNFP	B	100.25/17.1
IC3	1110006470	S.IC LMV324IPWR	B	27.5/17.6
IC4	1110007620	S.IC NJU7704F3-42A-TE1-#ZZB	B	111.6/23.2
IC5	1130016260	S.IC BR24T64FVT-WE2	B	113.2/4.1
IC6	1130011770	S.IC CD4066BPWR	B	40.9/18.2
IC24	1110006490	S.IC LMV321IDCKR	B	17.9/14.0
IC25	1110007200	S.IC M61545AFP#DFOR	T	26.1/18.4
IC28	1130011770	S.IC CD4066BPWR	B	13.3/22.3
IC29	1130011760	S.IC CD4094BPWR	B	50.5/25.2
IC30	1130011760	S.IC CD4094BPWR	B	49.5/17.9
Q1	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	14.7/8.6
Q2	1590004070	S.TRA LDT144EET1G <SLVJ>	B	45.5/11.4
Q3	1590004390	S.TRA DMG504010R	B	53.7/9.4
Q5	1590004100	S.TRA LDT144TET1G <SLVJ>	B	85.8/15.1
Q7	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	79.9/16.8
Q8	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	76.7/12.3
Q10	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	77.4/16.8
Q11	1530002851	S.TRA 2SC4116-BL(TE85RF)	B	80.1/12.5
D1	1790001810	S.VAR AVR-M1005C080MTABB	B	15.2/11.8
D2	1750001810	S.DIO L1SS400T1G <SLVJ>	B	10.2/7.4
D3	1750002040	S.ZEN DZJ091MOL	B	2.8/10.9
D4	1750001850	S.DIO LDAN222T1G <SLVJ>	T	111.7/15.6
D6	1750000370	S.DIO DA221 TL	B	87.7/16.4
D7	1750001850	S.DIO LDAN222T1G <SLVJ>	T	98.3/1.7
D8	1750001850	S.DIO LDAN222T1G <SLVJ>	T	62.3/1.7
D9	1750001850	S.DIO LDAN222T1G <SLVJ>	T	50.3/1.7
D12	1750001810	S.DIO L1SS400T1G <SLVJ>	[TPE] [KOR]	B 125.7/5.1
D13	1750001810	S.DIO L1SS400T1G <SLVJ>	[TPE] [USA]	B 126.9/5.1
D16	1750001810	S.DIO L1SS400T1G <SLVJ>	[KOR]	B 128.1/7.6
D17	1750001810	S.DIO L1SS400T1G <SLVJ>	[EXP-01] [EXP-02] [TPE] [KOR]	B 129.3/7.6
D21	1750001810	S.DIO L1SS400T1G <SLVJ>	[EXP-01]	B 108.6/1.7
D22	1750001810	S.DIO L1SS400T1G <SLVJ>	[TPE] [EXP-02]	B 125.7/7.6
D23	1750001810	S.DIO L1SS400T1G <SLVJ>	[TPE] [KOR]	B 126.9/7.6
D25	1750000771	S.VAR HVC376BTRF-E	B	84.4/6.2
D27	1750001810	S.DIO L1SS400T1G <SLVJ>	B	125.7/10.1
D28	1750001810	S.DIO L1SS400T1G <SLVJ>	[TPE] [USA] [KOR]	B 126.9/10.1
D32	1750001810	S.DIO L1SS400T1G <SLVJ>	B	7.0/4.9
D33	1750001810	S.DIO L1SS400T1G <SLVJ>	B	99.0/5.0
D36	1750001810	S.DIO L1SS400T1G <SLVJ>	T	112.5/13.2
D37	1750001810	S.DIO L1SS400T1G <SLVJ>	B	87.8/18.1
X1	6050013180	S.XTA CR-910(HC-49US/9.8304 MHz) <JJE>	B	89.8/7.9
R1	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	17.0/15.8
R2	7030005310	S.RES ERJ2GEJ 124 X (120K)	B	15.8/15.4
R3	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	17.0/11.8
R5	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	14.9/15.4
R6	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	20.1/13.8
R7	7510001770	S.THE NTCG10 4LH 473JT	T	112.1/23.0
R8	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	12.5/7.3
R9	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	12.0/8.5
R10	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	14.7/6.8
R11	7030005830	S.RES RR0510P-223-D (22K)	T	112.6/24.2
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	12.9/8.5
R14	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	14.0/15.4
R15	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	13.1/15.4
R16	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	55.5/13.3
R17	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	54.1/12.8
R18	7030008310	S.RES ERJ2GEJ 564 X (560K)	B	45.6/26.3
R19	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	34.3/21.3
R21	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	53.7/11.6
R24	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	51.6/9.8
R25	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	51.6/10.7
R27	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	44.4/13.0
R28	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	51.6/8.0
R29	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	55.4/9.8
R30	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	27.1/13.6
R31	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	105.4/7.9
R32	7030007570	S.RES ERJ2GEJ 122 X (1.2K)	B	54.4/6.6
R34	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	52.0/6.8
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	30.3/14.4
R36	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	96.5/6.6
R37	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.4/9.8
R39	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	33.4/16.0
R40	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	93.0/17.2
R41	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	84.8/7.3
R45	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	B	32.1/22.6
R47	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	11.8/6.4
R48	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	93.3/8.9
R49	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	32.1/21.7
R50	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	32.9/18.4
R51	7030005530	S.RES ERJ2GEJ 100 X (10)	B	92.2/10.8
R53	7030007310	S.RES ERJ2GEJ 155 X (1.5M)	B	32.5/19.6
R56	7030003660	S.RES ERJ3GEJY 683 V (68K)	B	35.1/15.4
R57	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.9/4.7
R58	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	108.8/4.7
R59	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	87.6/14.5
R60	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	106.3/8.8
R61	7210003340	VAR R0903N-B50KL-20F <SKD>		
R62	7210003340	VAR R0903N-B50KL-20F <SKD>		
R64	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	42.7/22.4
R67	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	42.8/13.0
R69	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	41.4/14.5
R70	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	42.3/14.5
R72	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	38.6/15.0
R73	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	38.6/14.1
R74	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	38.6/13.2
R76	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	21.7/19.3
R78	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	22.2/18.1
R79	7030007280	S.RES ERJ2GEJ 331 X (330)	B	81.6/16.3
R80	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	78.5/11.0
R81	7030005310	S.RES ERJ2GEJ 124 X (120K)	B	22.1/20.5
R82	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	79.7/10.8
R83	7030007260	S.RES ERJ2GEJ 330 X (33)	T	44.5/18.2
R84	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	22.6/21.7
R85	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	80.5/14.6
R86	7030007260	S.RES ERJ2GEJ 330 X (33)	T	43.6/18.2
R87	7410001130	S.ARR EXB28V102JX	B	112.5/14.8
R88	7030007260	S.RES ERJ2GEJ 330 X (33)	T	66.5/18.2
R89	7030007260	S.RES ERJ2GEJ 330 X (33)	T	65.6/18.2
R90	7030007280	S.RES ERJ2GEJ 331 X (330)	B	79.2/17.6
R91	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	29.8/21.6
R92	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	30.3/19.5
R93	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	59.0/21.4
R94	7030007260	S.RES ERJ2GEJ 330 X (33)	T	88.5/18.2
R95	7030007270	S.RES ERJ2GEJ 151 X (150)	B	76.7/14.6
R97	7030007260	S.RES ERJ2GEJ 330 X (33)	T	87.6/18.2
R99	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	78.0/14.6
R101	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	8.2/14.7
R103	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	22.6/16.0
R104	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	20.8/17.0
R105	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	22.2/17.2
R108	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	111.2/20.6
R114	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	81.5/7.3
R133	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	94.7/8.0
R134	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	44.4/25.9
R135	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	127.5/26.6
R137	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	107.2/8.0
R519	7030005010	S.RES ERJ2GEJ 681 X (680)	B	34.6/16.4
R554	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	82.7/7.7
R555	7410001130	S.ARR EXB28V102JX	T	106.0/15.4
R556	7410001130	S.ARR EXB28V102JX	T	106.1/12.4
R557	7410001130	S.ARR EXB28V102JX	T	102.5/11.0
R558	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	56.4/13.3
R559	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	56.4/10.9
R561	7030010040	S.RES ERJ2GEJ-JPW	B	100.0/4.4
R562	7030010040	S.RES ERJ2GEJ-JPW	B	91.0/11.3
R563	7030005700	S.RES ERJ2GEJ 274 X (270K)	B	45.6/25.4
R564	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	51.3/22.1
R565	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	48.0/22.1
R566	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/26.9
R567	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/26.0
R568	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/25.1
R569	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	55.5/24.2
R570	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	130.4/23.3
R572	7030010040	S.RES ERJ2GEJ-JPW	B	20.1/14.7
R573	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	7.1/6.9
R574	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	42.6/21.5
R575	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	35.5/19.1
C4	4030011600	S.CER C1608 JB 1E 104K-T	T	113.6/25.5
C5	4030017420	S.CER C1005 CH 1H 470J-T	B	59.9/20.6
C7	4030017460	S.CER C1005 JB 1H 102K-T	B	60.3/13.2
C8	4030016790	S.CER C1005 JB 1E 103K-T	B	18.3/12.2
C10	4030017460	S.CER C1005 JB 1H 102K-T	B	60.8/20.5
C11	4030017460	S.CER C1005 JB 1H 102K-T	B	3.5/7.2
C13	4030017460	S.CER C1005 JB 1H 102K-T	B	61.2/13.2
C14	4030017460	S.CER C1005 JB 1H 102K-T	B	72.3/20.5
C15	4030017460	S.CER C1005 JB 1H 102K-T	B	62.8/20.5
C16	4030017460	S.CER C1005 JB 1H 102K-T	B	2.9/13.0
C20	4030017460	S.CER C1005 JB 1H 102K-T	B	6.0/6.0
C23	4030017460	S.CER C1005 JB 1H 102K-T	B	8.4/6.9
C28	4030017460	S.CER C1005 JB 1H 102K-T	B	11.9/16.8
C30	4030017420	S.CER C1005 CH 1H 470J-T	B	65.3/13.2
C31	4030017420	S.CER C1005 CH 1H 470J-T	B	16.1/11.8
C33	4030013960	S.CER C1005 JB 1C 473K-T	B	13.1/17.0
C34	4030017790	S.CER C1005 JB 1H 682K-T	B	54.6/14.0
C35	4030017040	S.CER C1005 JB 1A 333K-T	B	52.8/11.6
C37	4030016790	S.CER C1005 JB 1E 103K-T	B	50.0/10.7
C38	4030018080	S.CER C1005 JB 1H 182K-T	B	51.6/11.6
C39	4030017460	S.CER C1005 JB 1H 102K-T	B	95.6/7.5
C41	4030016930	S.CER C1005 JB 1A 104K-T	B	33.8/22.5
C42	4030016950	S.CER C1005 JB 1A 473K-T	T	25.9/13.2
C43	4030016950	S.CER C1005 JB 1A 473K-T	B	44.0/11.8
C44	4030018390	S.CER C1005 JB 1A 563K-T	T	28.3/13.2

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R48	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	93.3/8.9
R49	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	32.1/21.7
R50	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	32.9/18.4
R51	7030005530	S.RES ERJ2GEJ 100 X (10)	B	92.2/10.8
R53	7030007310	S.RES ERJ2GEJ 155 X (1.5M)	B	32.5/19.6
R56	7030003660	S.RES ERJ3GEJY 683 V (68K)	B	35.1/15.4
R57	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	107.9/4.7
R58	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	108.8/4.7
R59	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	87.6/14.5

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C45	4030016790	S.CER C1005 JB 1E 103K-T	B	96.5/5.0
C46	4030016970	S.CER C1005 JB 1E 223K-T	B	56.6/8.1
C47	4030016930	S.CER C1005 JB 1A 104K-T	B	34.9/17.6
C48	4030017760	S.CER C1005 JB 1H 222K-T	B	56.6/7.2
C49	4030016930	S.CER C1005 JB 1A 104K-T	B	109.8/22.7
C51	4030017030	S.CER C1005 JB 1A 273K-T	B	111.4/25.0
C52	4030017420	S.CER C1005 CH 1H 470J-T	T	7.3/27.6
C53	4030017690	S.CER C1005 CH 1H 121J-T	B	86.1/6.7
C54	4030016790	S.CER C1005 JB 1E 103K-T	B	33.4/21.2
C55	4030017620	S.CER C1005 CH 1H 100C-T	B	92.9/10.1
C56	4030017760	S.CER C1005 JB 1H 222K-T	B	32.1/20.8
C57	4030018110	S.CER C1005 JB 1H 272K-T	B	33.4/19.6
C58	4030017780	S.CER C1005 JB 1H 472K-T	T	106.1/17.1
C59	4030017640	S.CER C1005 CH 1H 150J-T	B	94.0/9.5
C60	4030017780	S.CER C1005 JB 1H 472K-T	B	110.7/13.2
C61	4030017780	S.CER C1005 JB 1H 472K-T	T	110.3/12.7
C62	4030016930	S.CER C1005 JB 1A 104K-T	B	110.7/6.5
C64	4030016790	S.CER C1005 JB 1E 103K-T	B	85.9/13.5
C66	4030016790	S.CER C1005 JB 1E 103K-T	B	43.5/15.0
C67	4030019560	S.CER GRM21BB31C106KE15L	T	95.4/17.6
C68	4030016930	S.CER C1005 JB 1A 104K-T	T	99.0/10.9
C69	4030016960	S.CER C1005 JB 1E 183K-T	B	42.6/23.3
C70	4030016790	S.CER C1005 JB 1E 103K-T	T	111.7/24.2
C71	4030016790	S.CER C1005 JB 1E 103K-T	B	40.2/14.1
C73	4030019620	S.CER GRM188B31C225KE14D	B	40.7/13.0
C74	4030018920	S.CER C1005 JB 1H 392K-T	B	20.5/20.5
C75	4030017450	S.CER C1005 JB 1H 271K-T	B	22.6/19.3
C76	4030017040	S.CER C1005 JB 1A 333K-T	B	21.4/22.2
C77	4030019620	S.CER GRM188B31C225KE14D	T	31.3/20.0
C78	4030016790	S.CER C1005 JB 1E 103K-T	B	26.1/14.4
C79	4030017440	S.CER C1005 CH 1H 221J-T	B	21.7/16.0
C80	4030019990	S.CER C1005 JB 1C 104K-T	B	82.7/6.1
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	83.6/7.7
C83	4030016930	S.CER C1005 JB 1A 104K-T	T	29.4/19.5
C85	4030019990	S.CER C1005 JB 1C 104K-T	B	22.1/14.8
C86	4030017460	S.CER C1005 JB 1H 102K-T	B	10.1/23.7
C87	4030018890	S.CER C1005 JB 0J 224K-T	B	108.1/8.0
C88	4030018890	S.CER C1005 JB 0J 224K-T	B	45.2/27.5
C89	4030016930	S.CER C1005 JB 1A 104K-T	B	46.2/15.4
C90	4030017780	S.CER C1005 JB 1H 472K-T	T	100.4/11.6
C91	4030017780	S.CER C1005 JB 1H 472K-T	B	109.4/9.6
C92	4030017780	S.CER C1005 JB 1H 472K-T	T	104.5/10.9
C94	4030017780	S.CER C1005 JB 1H 472K-T	B	110.0/12.3
C95	4030017780	S.CER C1005 JB 1H 472K-T	B	110.0/11.4
C96	4030017780	S.CER C1005 JB 1H 472K-T	B	109.4/10.5
C97	4030017780	S.CER C1005 JB 1H 472K-T	T	106.1/10.7
C99	4030017770	S.CER C1005 JB 1H 332K-T	B	56.8/12.1
C100	4030017720	S.CER C1005 JB 1H 331K-T	B	57.6/10.0
C101	4030016930	S.CER C1005 JB 1A 104K-T	B	53.0/21.9
C102	4030018890	S.CER C1005 JB 0J 224K-T	B	106.9/6.8
C103	4030017460	S.CER C1005 JB 1H 102K-T	B	58.0/13.4
C104	4030017460	S.CER C1005 JB 1H 102K-T	B	111.7/19.4
C105	4030016930	S.CER C1005 JB 1A 104K-T	B	44.4/24.3
C108	4550007080	S.TAN TEESVA 1C 106M8R	B	9.5/17.4
C109	4030016970	S.CER C1005 JB 1E 223K-T	B	36.1/20.9
J1	6450002210	CON 3017-8821 <KIN>		
J3	6510028390	S.CON 04-6294-036-000-800	B	66.0/16.9
DS1	5030003530	LCD L1-1207TVM-1 <TES>		
DS3	5040003470	S.LED HT-297UY/YUG <KOU>	T	44.0/20.0
DS5	5040003470	S.LED HT-297UY/YUG <KOU>	T	55.0/20.0
DS6	5040003470	S.LED HT-297UY/YUG <KOU>	T	66.0/20.0
DS7	5040003470	S.LED HT-297UY/YUG <KOU>	T	77.0/20.0
DS8	5040003470	S.LED HT-297UY/YUG <KOU>	T	88.0/20.0
DS9	5040003470	S.LED HT-297UY/YUG <KOU>	T	99.0/20.0
S1	2260002740	S.SWI LS8J2M-T	T	10.0/30.6
S2	2260002740	S.SWI LS8J2M-T	T	101.5/4.8
S3	2260002740	S.SWI LS8J2M-T	T	89.5/4.8
S4	2260002740	S.SWI LS8J2M-T	T	77.5/4.8
S5	2260002740	S.SWI LS8J2M-T	T	65.5/4.8
S6	2260002740	S.SWI LS8J2M-T	T	53.5/4.8
S7	2260002740	S.SWI LS8J2M-T	T	41.5/4.8
S8	2260002740	S.SWI LS8J2M-T	T	10.0/21.3
S9	2250000700	ENC EC12E24204A8		
S10	2260002740	S.SWI LS8J2M-T	T	111.8/4.8
EP1	6910018460	S.BEA MMZ1005Y102C-T	B	15.6/13.2
EP2	6910012350	S.BEA MMZ1608Y 102BT	T	11.5/14.6
EP3	6910018460	S.BEA MMZ1005Y102C-T	B	12.2/15.4
EP4	6910018460	S.BEA MMZ1005Y102C-T	T	9.7/14.4
EP5	6910018460	S.BEA MMZ1005Y102C-T	B	8.4/8.5
EP6	6910018460	S.BEA MMZ1005Y102C-T	B	7.1/8.5
EP7	6910018460	S.BEA MMZ1005Y102C-T	T	6.4/14.7
EP8	6910012350	S.BEA MMZ1608Y 102BT	B	4.6/8.0
EP9	8930084270	LCD SRCN-3251-SP-N-W		

## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140005991	S.IC MB15A02PFV1-G-BND-ERE1	B	56.65/16.5
IC2	1130011760	S.IC CD4094BPWR	B	44.3/4.4
IC3	1110007720	S.IC AA32416A <SLVJ>	B	95.9/11.4
IC4	1130007021	S.IC TC7S66FU(TE85LF)	T	57.1/17.6
IC5	1110007550	S.IC R2A20178NP	T	7.4/3/12.8
IC6	1180001252	S.IC TA7808F(TE16L1NQ)	B	10.0/38.9
IC7	1110003091	S.IC LA4425A-E		
IC8	1180003470	S.REG NJM2835DL1-05-TE1-#ZZZB	B	11.2/48.5
IC9	1110006470	S.IC LMV324IPWR	T	77.9/26.5
IC10	1110006870	S.IC UPC2709TB-E3	B	40.7/26.3
Q1	1530002851	S.TRA 2SC4116-BL(TE85RF)	T	88.4/14.8
Q2	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	15.5/30.8
Q3	1510000591	S.TRA 2SA1362-Y(TE85LF)	B	15.8/33.8
Q4	1590004450	S.TRA LDTA144EET1G <SLVJ>	T	99.3/3.9
Q5	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	35.0/29.9
Q6	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	29.7/15.6
Q7	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	31.7/17.7
Q8	1590004400	S.TRA LDTA123YET1G <SLVJ>	B	31.8/21.3
Q9	1590004070	S.TRA LDTA123YET1G <SLVJ>	B	88.9/6.5
Q10	1560000541	S.FET 2SK880-Y(T5RICOMF)	T	56.9/13.1
Q11	1590004400	S.TRA LDTA123YET1G <SLVJ>	T	43.9/11.9
Q12	1590004070	S.TRA LDTA123YET1G <SLVJ>	B	11.0/29.4
Q13	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	34.8/15.7
Q14	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	36.3/21.1
Q15	1590004400	S.TRA LDTA123YET1G <SLVJ>	B	11.0/31.5
Q16	1590004070	S.TRA LDTA123YET1G <SLVJ>	B	12.3/33.6
Q17	1530002931	S.TRA 2SC4226-T1 Y45 (R45)	B	34.2/25.7
Q20	1530003091	S.TRA 2SC4213-B(TE85RF)	T	21.1/4.3
Q21	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	T	22.6/45.2
Q22	1560001241	S.FET RD01MUS1-T113	T	30.4/49.4
Q23	1520000560	S.TRA 2SB1132 T100 R	B	19.0/52.0
Q24	1520000460	S.TRA 2SB1132 T100 R	B	19.0/44.7
Q25	1590004690	S.TRA LDTA144EET1G <SLVJ>	B	21.1/39.0
Q26	1560001770	S.FET RD04HMS2-T112	T	29.6/55.9
Q27	1530002921	S.TRA 2SC4226-T1 Y25 (R25)	B	86.7/13.6
Q28	1580000731	S.FET 3SK293(TE85LF)	B	82.4/27.1
Q29	1560001780	S.FET RD70HUF2-T1105	B	60.0/54.7
Q31	1590004050	S.TRA LDTA144EET1G <SLVJ>	T	71.1/22.7
Q32	1580000731	S.FET 3SK293(TE85LF)	B	102.1/22.6
Q33	1560001790	S.FET LN2306LT1G <SLVJ>	T	27.2/9.8
Q34	1590004070	S.TRA LDTA144EET1G <SLVJ>	T	29.0/7.0
Q35	1560001790	S.FET LN2306LT1G <SLVJ>	T	25.5/6.6
Q36	1560001790	S.FET LN2306LT1G <SLVJ>	T	21.1/23.0
Q37	1560001790	S.FET LN2306LT1G <SLVJ>	T	20.4/26.3
Q38	1590004060	S.TRA LDTA144EET1G <SLVJ>	T	23.8/23.9
Q39	1590004070	S.TRA LDTA144EET1G <SLVJ>	B	10.8/27.4
D1	1750001790	S.DIO 1SS390 TE61	T	104.2/9.2
D2	1750001790	S.DIO 1SS390 TE61	T	108.6/9.8
D3	1750001810	S.DIO L1SS400T1G <SLVJ>	B	55.4/20.0
D4	1750001810	S.DIO L1SS400T1G <SLVJ>	B	33.1/30.0
D5	1750001790	S.DIO 1SS390 TE61	T	99.7/7.7
D6	1750001790	S.DIO 1SS390 TE61	T	99.7/10.2
D7	1750000721	S.VAR HVC375BTRF-E	B	43.1/15.8
D8	1750000721	S.VAR HVC375BTRF-E	B	44.9/13.6
D9	1750001570	S.VAR HVL355CMKRF-E	B	41.5/13.4
D10	1750000721	S.VAR HVC375BTRF-E	B	43.4/20.2
D11	1750000721	S.VAR HVC375BTRF-E	B	43.9/18.4
D12	1750001910	S.DIO HVD144AKRF-E	B	45.3/29.1
D13	1750001910	S.DIO HVD144AKRF-E	B	43.7/29.8
D16	1790001950	S.VAR VC060318A400RP	T	37.0/67.9
D17	1750001820	S.DIO LRB706F-40T1G <SLVJ>	B	85.2/9.1
D19	1710001300	DIO P6KA18AHE3/54 <TOMEN>		
D22	1750000711	S.VAR HVC350BTRF-E	B	95.0/20.4
D23	1750000711	S.VAR HVC350BTRF-E	B	112.4/20.8
D24	1750002190	S.DIO JDP2S12CR(TE85LQ)	T	101.2/36.2
D25	1750002190	S.DIO JDP2S12CR(TE85LQ)	T	101.2/34.1
D26	1750001810	S.DIO L1SS400T1G <SLVJ>	B	109.6/25.1
D27	1750001820	S.DIO LRB706F-40T1G <SLVJ>	B	104.9/43.4
D28	1750001810	S.DIO L1SS400T1G <SLVJ>	T	108.0/20.4
D29	1710000871	S.DIO HVU131TRF-E	T	112.9/22.7
D30	1710000871	S.DIO HVU131TRF-E	T	113.3/32.5
D31	1710000871	S.DIO HVU131TRF-E	T	113.3/30.8
D32	1710000871	S.DIO HVU131TRF-E	T	113.3/29.0
D33	1750001820	S.DIO LRB706F-40T1G <SLVJ>	B	99.5/47.1
D34	1750001780	S.VAR HVB350BYPTE-E	B	90.5/20.0
D35	1750001810	S.DIO L1SS400T1G <SLVJ>	T	99.8/22.5
F11	2020002380	CER LT450FW <JJE>		
F12	2020002510	CER LTW450HT <JJE>		
F13	2030000870	S.MON MFT46.3P3 46.350 MHz (FL-442)	B	80.6/14.0
X1	6050012830	S.XTA CR-875 TTS14VSB-A3 15.3 MHz	T	64.7/14.0
X2	6070000300	S.DIS JTBM450CX24 <JJE>	T	93.5/5.2
L1	6190002030	S.COI MLG1608S 1R0J-T	T	90.35/15.5
L2	6200012170	S.COI MLG1608S R18J-T	T	93.2/14.8
L3	6200013740	S.COI MLG1608S R47J-T	B	44.9/16.1
L4	6200013740	S.COI MLG1608S R47J-T	B	45.2/19.8
L5	6200011050	S.COI C2012C-R12G-A	B	39.8/14.5
L6	6200009890	S.COI C2012C-82NG-A	B	41.1/19.1
L7	6200011031	S.COI ELJRF R10JFB	B	36.9/26.1
L9	6190002030	S.COI MLG1608S 1R0J-T	B	43.8/26.3
L11	6200007871	S.COI ELJRF 39NJFB	B	44.3/28.4
L12	6200011011	S.COI ELJRF 68NJFB	T	21.5/47.0
L13	6200007891	S.COI ELJRF 27NJFB	T	26.4/52.4
L14	6200013100	S.COI 0.45-1.5-STL 18.3N <COMO>	T	35.4/61.0
L15	6190002030	S.COI MLG1608S 1R0J-T	B	88.7/12.9

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., H/V LOCATION. Rows include parts like 6200011031, 6200012860, etc.

[MAIN UNIT]

Table with columns: REF NO., PARTS NO., DESCRIPTION, M., H/V LOCATION. Rows include parts like 7030004980, 7030005060, etc.

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
C9	4030017430	S.CER C1005 CH 1H 101J-T	T	86.3/16.5
C10	4030017460	S.CER C1005 JB 1H 102K-T	B	10.6/34.3
C11	4030019990	S.CER C1005 JB 1C 104K-T	B	15.5/28.9
C12	4030016790	S.CER C1005 JB 1E 103K-T	B	87.9/10.6
C13	4030017460	S.CER C1005 JB 1H 102K-T	T	61.2/12.9
C14	4030017380	S.CER C1005 CH 1H 050B-T	T	91.4/14.3
C15	4030019560	S.CER GRM21BB31C106KE15L	B	18.4/34.8
C16	4030016790	S.CER C1005 JB 1E 103K-T	T	87.9/13.0
C17	4030017580	S.CER C1005 CH 1H 060C-T	T	91.9/15.5
C18	4030017500	S.CER C1005 CH 1H 560J-T	T	94.3/14.3
C19	4030016790	S.CER C1005 JB 1E 103K-T	B	66.8/8.3
C21	4030017620	S.CER C1005 CH 1H 100C-T	T	61.2/15.6
C22	4030017460	S.CER C1005 JB 1H 102K-T	B	53.3/5.3
C23	4030017460	S.CER C1005 JB 1H 102K-T	B	68.3/5.3
C24	4030017460	S.CER C1005 JB 1H 102K-T	B	56.1/13.2
C26	4030017360	S.CER C1005 CH 1H 030B-T	T	94.6/15.5
C27	4030017460	S.CER C1005 JB 1H 102K-T	B	61.8/8.3
C29	4030016930	S.CER C1005 JB 1A 104K-T	B	40.9/7.7
C30	4030016950	S.CER C1005 JB 1A 473K-T	T	111.5/9.1
C31	4030017460	S.CER C1005 JB 1H 102K-T	B	65.8/5.3
C33	4030017460	S.CER C1005 JB 1H 102K-T	B	55.8/5.3
C34	4030017460	S.CER C1005 JB 1H 102K-T	B	31.2/29.3
C35	4030017730	S.CER C1005 JB 1H 471K-T	B	54.6/21.4
C36	4030017460	S.CER C1005 JB 1H 102K-T	B	51.7/17.1
C37	4030017420	S.CER C1005 CH 1H 470J-T	B	55.8/21.0
C39	4030019990	S.CER C1005 JB 1C 104K-T	B	50.5/16.0
C40	4030017460	S.CER C1005 JB 1H 102K-T	B	29.4/13.3
C41	4030019990	S.CER C1005 JB 1C 104K-T	B	60.5/20.1
C42	4510009950	S.ELE EEEHC1C470P	T	29.6/32.5
C43	4030020000	S.CER C1005 JB 1A 105K-T	B	51.7/13.9
C45	4030017460	S.CER C1005 JB 1H 102K-T	B	37.1/30.8
C46	4030020000	S.CER C1005 JB 1A 105K-T	B	50.5/15.1
C49	4030019990	S.CER C1005 JB 1C 104K-T	T	102.2/10.0
C50	4030019990	S.CER C1005 JB 1C 104K-T	T	98.6/10.5
C51	4030019990	S.CER C1005 JB 1C 104K-T	B	97.1/8.1
C52	4030017720	S.CER C1005 JB 1H 331K-T	B	99.3/6.9
C53	4030017720	S.CER C1005 JB 1H 331K-T	B	98.4/6.9
C54	4030016790	S.CER C1005 JB 1E 103K-T	B	98.2/15.1
C55	4030019560	S.CER GRM21BB31C106KE15L	T	91.6/10.7
C56	4030020000	S.CER C1005 JB 1A 105K-T	B	99.1/15.1
C57	4030017460	S.CER C1005 JB 1H 102K-T	T	90.0/10.1
C58	4030017460	S.CER C1005 JB 1H 102K-T	B	93.7/6.5
C59	4030017460	S.CER C1005 JB 1H 102K-T	T	57.1/15.7
C60	4030017460	S.CER C1005 JB 1H 102K-T	B	94.2/7.7
C61	4030019990	S.CER C1005 JB 1C 104K-T	B	87.3/6.5
C62	4030017460	S.CER C1005 JB 1H 102K-T	B	91.6/12.6
C63	4030019990	S.CER C1005 JB 1C 104K-T	T	56.3/19.8
C64	4030017460	S.CER C1005 JB 1H 102K-T	B	97.0/14.7
C65	4030019990	S.CER C1005 JB 1C 104K-T	T	58.3/15.3
C66	4030019990	S.CER C1005 JB 1C 104K-T	B	91.3/7.7
C67	4550000530	S.TAN TEESVA 1V 104M8R	T	53.5/14.1
C68	4030017460	S.CER C1005 JB 1H 102K-T	T	59.1/12.4
C69	4030017430	S.CER C1005 CH 1H 101J-T	B	91.6/10.2
C70	4030017040	S.CER C1005 JB 1A 333K-T	T	95.9/11.1
C71	4030017460	S.CER C1005 JB 1H 102K-T	T	58.3/19.4
C74	4550002890	S.TAN TEESVA 1A 225M8R	T	49.3/14.1
C75	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/12.3
C76	4030017420	S.CER C1005 CH 1H 470J-T	T	43.6/17.6
C77	4030017460	S.CER C1005 JB 1H 102K-T	T	47.3/14.1
C78	4030017420	S.CER C1005 CH 1H 470J-T	B	47.1/19.4
C79	4030020000	S.CER C1005 JB 1A 105K-T	T	44.5/15.2
C80	4550000560	S.TAN TEESVA 1V 334M8R	B	46.6/14.9
C81	4030016790	S.CER C1005 JB 1E 103K-T	B	91.0/13.8
C82	4030017460	S.CER C1005 JB 1H 102K-T	B	13.0/29.4
C83	4030017440	S.CER C1005 CH 1H 221J-T	T	44.5/13.6
C85	4030017750	S.CER C1005 JB 1H 122K-T	B	43.3/13.2
C86	4030017530	S.CER C1005 CH 1H 0R5B-T	B	41.4/15.1
C87	4030017460	S.CER C1005 JB 1H 102K-T	B	34.0/18.5
C88	4030017580	S.CER C1005 CH 1H 060C-T	B	39.2/20.2
C89	4030017580	S.CER C1005 CH 1H 060C-T	B	37.9/14.8
C90	4030017460	S.CER C1005 JB 1H 102K-T	B	92.4/7.0
C91	4030016930	S.CER C1005 JB 1A 104K-T	T	73.4/16.9
C92	4030019990	S.CER C1005 JB 1C 104K-T	B	30.3/23.3
C93	4030017590	S.CER C1005 CH 1H 070C-T	B	34.9/13.8
C94	4030017420	S.CER C1005 CH 1H 470J-T	B	33.7/13.4
C95	4030017380	S.CER C1005 CH 1H 050B-T	B	36.3/19.2
C96	4030018010	S.CER C1005 CH 1H 360J-T	B	35.8/18.0
C97	4030016790	S.CER C1005 JB 1E 103K-T	T	72.8/7.4
C98	4030016930	S.CER C1005 JB 1A 104K-T	T	75.7/17.3
C99	4030017460	S.CER C1005 JB 1H 102K-T	B	37.9/15.7
C100	4030017460	S.CER C1005 JB 1H 102K-T	B	39.2/21.1
C101	4030017540	S.CER C1005 CH 1H R75B-T	B	34.5/20.6
C102	4030019990	S.CER C1005 JB 1C 104K-T	B	37.0/16.6
C103	4030017460	S.CER C1005 JB 1H 102K-T	B	34.2/22.9
C104	4030017540	S.CER C1005 CH 1H R75B-T	B	33.1/15.3
C105	4030017460	S.CER C1005 JB 1H 102K-T	B	32.5/25.2
C106	4030017460	S.CER C1005 JB 1H 102K-T	B	40.0/22.7
C112	4030017460	S.CER C1005 JB 1H 102K-T	B	46.9/25.9
C113	4030017460	S.CER C1005 JB 1H 102K-T	B	39.4/28.0
C116	4030019560	S.CER GRM21BB31C106KE15L	T	78.0/6.1
C117	4030017460	S.CER C1005 JB 1H 102K-T	B	42.7/26.6
C120	4030017460	S.CER C1005 JB 1H 102K-T	T	75.6/6.6
C122	4030017630	S.CER C1005 CH 1H 120J-T	B	43.1/28.0
C123	4030017630	S.CER C1005 CH 1H 120J-T	B	43.1/28.9
C124	4030017460	S.CER C1005 JB 1H 102K-T	B	16.8/37.1
C125	4030017460	S.CER C1005 JB 1H 102K-T	B	44.8/26.8
C126	4510010010	S.ELE 25 CE 220 LX	T	9.5/34.2
C127	4030017460	S.CER C1005 JB 1H 102K-T	T	20.5/39.6
C128	4030017460	S.CER C1005 JB 1H 102K-T	T	22.9/39.6
C129	4510010010	S.ELE 25 CE 220 LX	T	18.8/34.2
C130	4030017460	S.CER C1005 JB 1H 102K-T	B	16.8/40.0
C131	4030017460	S.CER C1005 JB 1H 102K-T	B	25.5/2.4
C132	4030017460	S.CER C1005 JB 1H 102K-T	B	17.7/40.0
C134	4030017650	S.CER C1005 CH 1H 270J-T	T	22.0/42.9
C135	4030018900	S.CER C1005 JB 0J 474K-T	B	18.3/4.1

**[MAIN UNIT]**

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C137	4030017460	S.CER C1005 JB 1H 102K-T	T	36.0/49.8
C138	4030017460	S.CER C1005 JB 1H 102K-T	T	19.8/49.6
C139	4030017460	S.CER C1005 JB 1H 102K-T	T	24.7/43.6
C140	4030017780	S.CER C1005 JB 1H 472K-T	B	23.2/4.3
C141	4030018900	S.CER C1005 JB 0J 474K-T	B	22.7/3.1
C142	4030017420	S.CER C1005 CH 1H 101J-T	T	23.1/47.0
C143	4030017430	S.CER C1005 CH 1H 470J-T	B	36.3/50.7
C144	4030017730	S.CER C1005 JB 1H 471K-T	B	21.1/6.4
C145	4030016790	S.CER C1005 JB 1E 103K-T	T	33.9/48.3
C148	4030017460	S.CER C1005 JB 1H 102K-T	T	34.1/46.2
C149	4030016930	S.CER C1005 JB 1A 104K-T	T	73.7/22.8
C150	4510010010	S.ELE 25 CE 220 LX	T	10.0/14.5
C151	4030017460	S.CER C1005 JB 1H 102K-T	B	22.7/46.2
C152	4030017460	S.CER C1005 JB 1H 102K-T	T	23.2/51.5
C156	4030017460	S.CER C1005 JB 1H 102K-T	B	13.3/42.7
C157	4030017460	S.CER C1005 JB 1H 102K-T	B	85.2/25.2
C159	4030017420	S.CER C1005 CH 1H 470J-T	T	33.9/51.0
C160	4030017430	S.CER C1005 CH 1H 101J-T	T	27.7/52.0
C161	4030017460	S.CER C1005 JB 1H 102K-T	T	25.1/50.3
C162	4030019990	S.CER C1005 JB 1C 104K-T	B	88.6/14.6
C163	4030017460	S.CER C1005 JB 1H 102K-T	T	33.9/51.9
C164	4510010230	S.ELE 10 CE 1000 LX	T	12.6/23.5
C165	4030019560	S.CER GRM21BB31C106KE15L	B	13.6/44.1
C166	4030017460	S.CER C1005 JB 1H 102K-T	B	87.1/10.3
C167	4030017600	S.CER C1005 CH 1H 080C-T	B	87.4/11.6
C170	4030019990	S.CER C1005 JB 1C 104K-T	B	7.9/22.2
C171	4030017460	S.CER C1005 JB 1H 102K-T	B	46.7/30.9
C172	4030017460	S.CER C1005 JB 1H 102K-T	T	36.9/66.9
C174	4030016790	S.CER C1005 JB 1E 103K-T	B	86.3/15.4
C175	4030016790	S.CER C1005 JB 1E 103K-T	B	85.5/11.0
C177	4030017460	S.CER C1005 JB 1H 102K-T	B	14.6/48.5
C178	4030017460	S.CER C1005 JB 1H 102K-T	T	13.1/51.5
C179	4030017460	S.CER C1005 JB 1H 102K-T	T	37.9/62.1
C182	4030017730	S.CER C1005 JB 1H 471K-T	T	17.3/52.2
C184	4030017460	S.CER C1005 JB 1H 102K-T	T	17.3/53.1
C187	4030017580	S.CER C1005 CH 1H 060C-T	B	84.3/15.3
C189	4030007130	S.CER C1608 CH 1H 101J-T	B	40.5/52.1
C190	4030007130	S.CER C1608 CH 1H 101J-T	B	40.5/52.2
C191	4030017370	S.CER C1005 CH 1H 3R5B-T	B	80.4/23.3
C192	4030009980	S.CER C1608 JB 1H 152K-T	B	45.6/53.9
C193	4030009980	S.CER C1608 JB 1H 152K-T	B	45.6/55.5
C194	4030016790	S.CER C1005 JB 1E 103K-T	B	77.4/16.8
C195	4030017340	S.CER C1005 CH 1H 010B-T	B	79.8/18.9
C196	4030017460	S.CER C1005 JB 1H 102K-T	B	77.5/22.4
C197	4030011600	S.CER C1608 JB 1E 104K-T	T	48.7/48.1
C198	4030016790	S.CER C1005 JB 1E 103K-T	T	84.1/23.7
C199	4030017390	S.CER C1005 CH 1H 180J-T	B	79.5/21.0
C200	4030017460	S.CER C1005 JB 1H 102K-T	B	82.4/19.5
C201	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/52.5
C202	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/56.9
C204	4030011600	S.CER C1608 JB 1E 104K-T	T	48.6/61.4
C205	4030017460	S.CER C1005 JB 1H 102K-T	B	82.8/23.3
C208	4030020220	S.CER GQM2192C1H470JB01D	B	74.0/43.7
C209	4030017380	S.CER C1005 CH 1H 050B-T	B	87.3/22.5
C210	4030017460	S.CER C1005 JB 1H 102K-T	T	51.2/48.6
C211	4030019990	S.CER C1005 JB 1C 104K-T	T	77.8/22.0
C213	4030017340	S.CER C1005 CH 1H 010B-T	B	88.5/22.4
C216	4030019410	S.CER GRM31A7U2J471JW31D	T	75.4/61.7
C217	4030017460	S.CER C1005 JB 1H 102K-T	T	64.8/42.7
C218	4030020230	S.CER GQM2192C1H680JB01D	T	74.2/42.8
C219	4030018890	S.CER C1005 JB 0J 224K-T	T	72.5/24.9
C220	4030017460	S.CER C1005 JB 1H 102K-T	T	66.3/42.8
C221	4030017460	S.CER C1005 JB 1H 102K-T	B	88.7/19.0
C222	4030019410	S.CER GRM31A7U2J471JW31D	T	75.4/59.6
C223	4030020230	S.CER GQM2192C1H680JB01D	T	74.2/44.5
C224	4030017680	S.CER C1005 CH 1H 820J-T	B	89.4/22.2
C225	4510010010	S.ELE 25 CE 220 LX	T	81.0/66.9
C226	4030017460	S.CER C1005 JB 1H 102K-T	T	79.0/23.2
C227	4030017530	S.CER C1005 CH 1H 0R5B-T	B	90.6/22.9
C228	4030020230	S.CER GQM2192C1H680JB01D	T	74.2/46.3
C229	4030016790	S.CER C1005 JB 1E 103K-T	B	89.8/13.6
C230	4030017460	S.CER C1005 JB 1H 102K-T	T	76.9/22.0
C232	4030016930	S.CER C1005 JB 1		

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C271	4030017460	S.CER C1005 JB 1H 102K-T	T	78.9/30.6
C272	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/43.5
C274	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/41.4
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	86.4/27.9
C276	4030017460	S.CER C1005 JB 1H 102K-T	B	112.0/19.5
C277	4030017460	S.CER C1005 JB 1H 102K-T	T	84.7/26.2
C278	4030011060	S.CER GRM31M2C2H4R0CY21L (GRM42-6 CH)	T	92.1/39.3
C279	4030017680	S.CER C1005 CH 1H 820J-T	B	110.8/21.5
C280	4030017460	S.CER C1005 JB 1H 102K-T	T	89.0/37.7
C281	4030018940	S.CER GRM31A7U2J331JW31D	T	98.1/35.9
C282	4030018940	S.CER GRM31A7U2J331JW31D	T	96.0/35.9
C283	4030018940	S.CER GRM31A7U2J331JW31D	T	93.7/35.9
C284	4030017460	S.CER C1005 JB 1H 102K-T	T	68.7/24.3
C285	4030019990	S.CER C1005 JB 1C 104K-T	T	86.4/28.8
C287	4030017380	S.CER C1005 CH 1H 050B-T	B	110.8/23.1
C288	4030019420	S.CER GRM31A7U2J102JW31D	T	104.3/32.0
C291	4030011170	S.CER GRM31M2C2H180JV01L (GRM42-6 CH)	B	104.3/34.6
C292	4030017460	S.CER C1005 JB 1H 102K-T	B	111.2/26.3
C293	4030017550	S.CER C1005 CH 1H 1R5B-T	T	110.2/23.1
C295	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	109.1/41.9
C296	4030007020	S.CER C1608 CH 1H 120J-T	B	104.7/41.5
C298	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	B	104.3/39.8
C299	4030017460	S.CER C1005 JB 1H 102K-T	B	101.9/42.4
C300	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	B	100.3/51.6
C302	4030017390	S.CER C1005 CH 1H 180J-T	T	108.8/26.9
C303	4030011020	S.CER GRM31M4C2H1R0CY21L (GRM42-6 CK)	B	103.4/47.8
C304	4030007020	S.CER C1608 CH 1H 120J-T	B	99.4/49.4
C305	4030011050	S.CER GRM31M3C2H3R0CY21L (GRM42-6 CJ)	T	98.7/29.9
C306	4030011210	S.CER GRM31M2C2H330JV01L (GRM42-6 CH)	B	100.3/56.9
C307	4030011160	S.CER GRM31M2C2H150JV01L (GRM42-6 CH)	B	104.2/63.1
C308	4030017450	S.CER C1005 JB 1H 271K-T	B	98.6/4.1
C309	4030017460	S.CER C1005 JB 1H 102K-T	T	97.9/1.2
C310	4030019990	S.CER C1005 JB 1C 104K-T	T	108.0/8.8
C311	4030019990	S.CER C1005 JB 1C 104K-T	T	99.7/5.6
C312	4030019990	S.CER C1005 JB 1C 104K-T	T	100.0/11.8
C313	4030019990	S.CER C1005 JB 1C 104K-T	T	111.5/10.0
C314	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/48.9
C315	4030007140	S.CER C1608 CH 1H 121J-T	B	48.9/60.5
C319	4510010010	S.ELE 25 CE 220 LX	T	22.4/16.6
C321	4030020000	S.CER C1005 JB 1A 105K-T	T	23.2/52.4
C322	4030019990	S.CER C1005 JB 1C 104K-T	B	14.6/16.5
C323	4030011230	S.CER GRM31M2C2H390JV01L (GRM42-6 CH)	T	86.3/45.6
C332	4550007090	S.TAN TEESVA 1A 226M8R	T	68.5/10.7
C333	4030016970	S.CER C1005 JB 1E 223K-T	B	25.6/3.6
C334	4030019460	S.CER C1608 JB 0J 106M-T	T	71.7/16.4
J1	6510028390	S.CON 04-6294-036-000-800	T	60.0/6.8
J2	6510014961	S.CON B2B-ZR-SM4-TF(LF)(SN)	T	8.9/56.5
J3	6510025940	CON PJ-3047S <XIN>		
W1	8900011882	CAB OPC-1210A-1(P0.5N36L70) <TJM>		
W2	7030012290	JUM RDS2T0R0		
W6	8900015130	CAB OPC-1131A <TJM>		
EP3	6910018460	S.BEA MMZ1005Y102C-T	T	24.8/51.5
EP4	6910014730	S.BEA MPZ2012S331A-T	T	34.7/64.6
EP5	6910020610	S.BEA BLM15BD102SN1D	B	45.7/26.3

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

# SECTION 7

# MECHANICAL PARTS

## [CHASSIS PARTS]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
W1	8600036881	SP CABLE-1 (FX2493 P01LO)	1
J1	6510004881	MR-DSE-01-1 <GA>	1
SP1	2510001160	057P0802	1
MP1	8010022230	3251 CHASSIS <STM>	1
MP2	8110010130	3251 COVER ASSEMBLY	1
MP3	8930083860	3251 SP RUBBER <KRI>	1
MP4	8930062130	THERMAL SHEET (AP)TC200HS-1.4 (15X23)	1
MP6	8810008661	PHBT M3 X 8 NI-ZC3	11
MP7	8810009611	FLAT M2.6X 6 ZK3	8
MP8	8810005161	CAPBOLT M3 X20 ZK3BLACK	2
MP9	8810009050	SETSCREWH M3 X10 NI	4

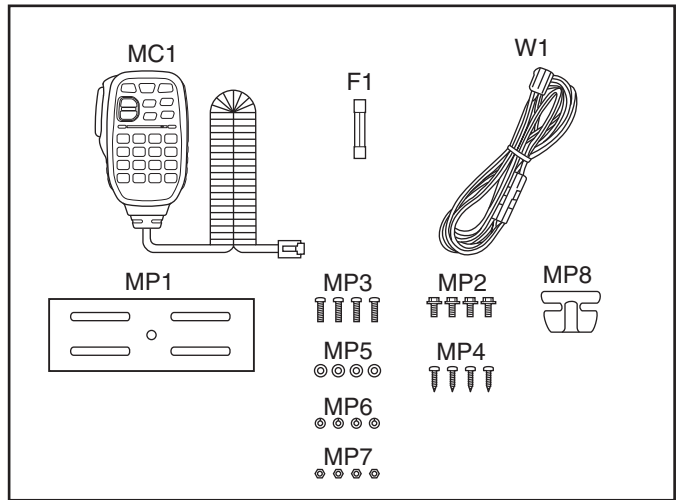
## [ACCESSORIES]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
F1	5210000080	FGB 20A (FGB0 125V)	1
MC1	(Optional)	HM-133V	1
W1	8900016610	OPC-1132A ACC	1
MP1	8010019260	2633 MOBILE BRACKET MOQ	1
MP2	8820000530	FLANGE BOLT M4 X 8 NI	4
MP3	8810000471	PH M5 X12 (+-) ZC3	4
MP4	8810000951	PHA M5 X16 ZC3	4
MP5	8850000150	FLAT WASHER M5 NI BS	4
MP6	8850000391	S-WASHER M5 ZC3	4
MP7	8830000121	NUT M 5 ZC3	4
MP8	8930007300	MIC HANGER	1

[USA] only

## [LOGIC UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6450002210	3017-8821 <KIN>	1
J3*	6510028390	04-6294-036-000-800	1
DS1	5030003530	L1-1207TVM-1 <TES>	1
S1*	2260002740	LS8J2M-T	1
S2*	2260002740	LS8J2M-T	1
S3*	2260002740	LS8J2M-T	1
S4*	2260002740	LS8J2M-T	1
S5*	2260002740	LS8J2M-T	1
S6*	2260002740	LS8J2M-T	1
S7*	2260002740	LS8J2M-T	1
S8*	2260002740	LS8J2M-T	1
S9*	2250000700	EC12E24204A8	1
S10*	2260002740	LS8J2M-T	1
EP9	8930084270	SRCN-3251-SP-N-W	1
MP1	8210027220	3251 FRONT PANEL	1
MP2	8210027230	3251 REFLECTOR	1
MP3	8930083840	3251 2-KEY	1
MP4	8930083850	3251 7-KEY	1
MP5	8930084140	3251 LCD FILTER	1
MP6	8810008761	PHBT M2 X 8 NI-ZC3	4
MP7	8930083870	3251 LCD PLATE	1
MP8	8610014400	KNOB N-400	1
MP9	8610014410	KNOB N-401	2
MP11	8930057890	THERMAL SHEET CF	1

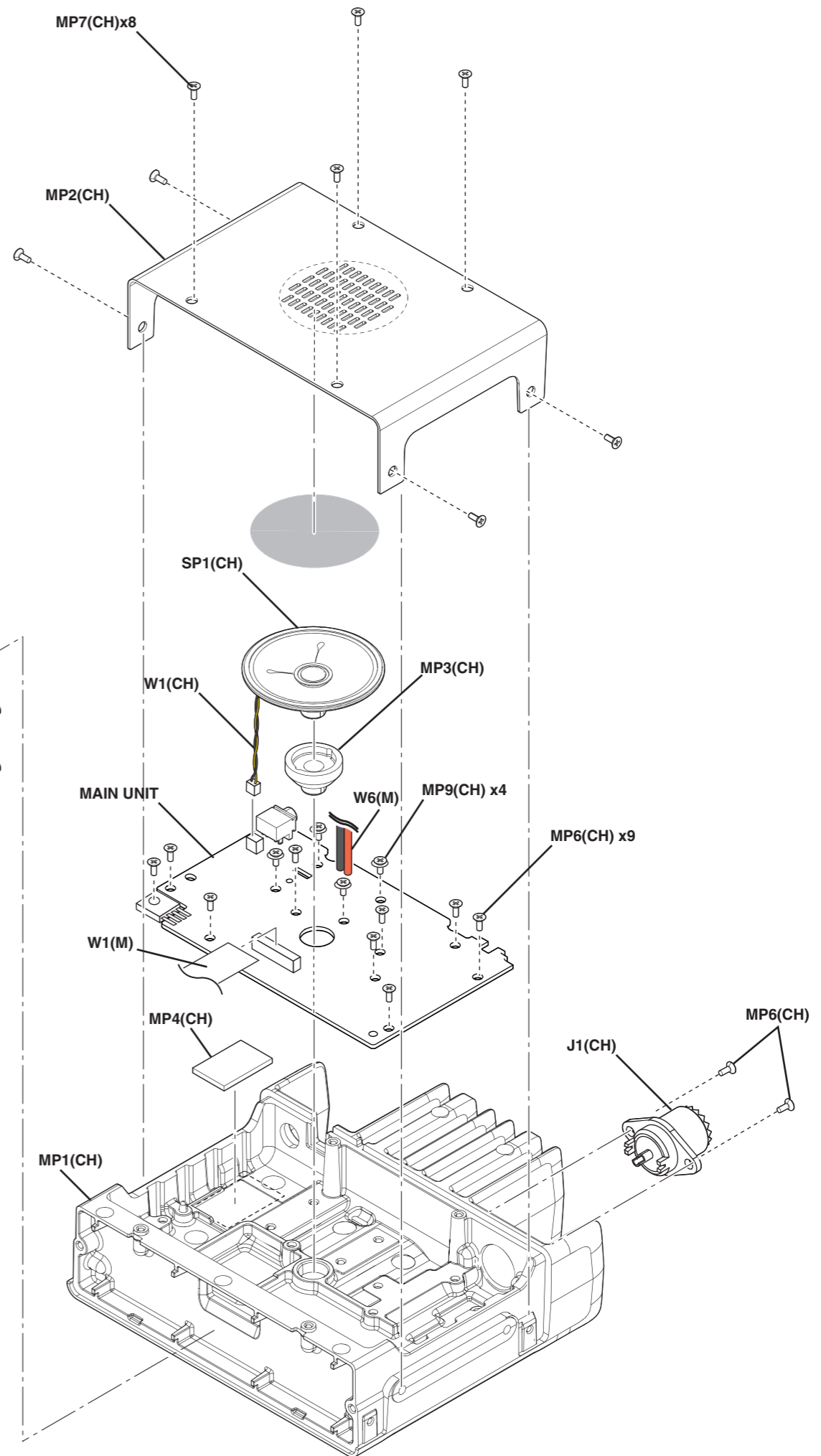
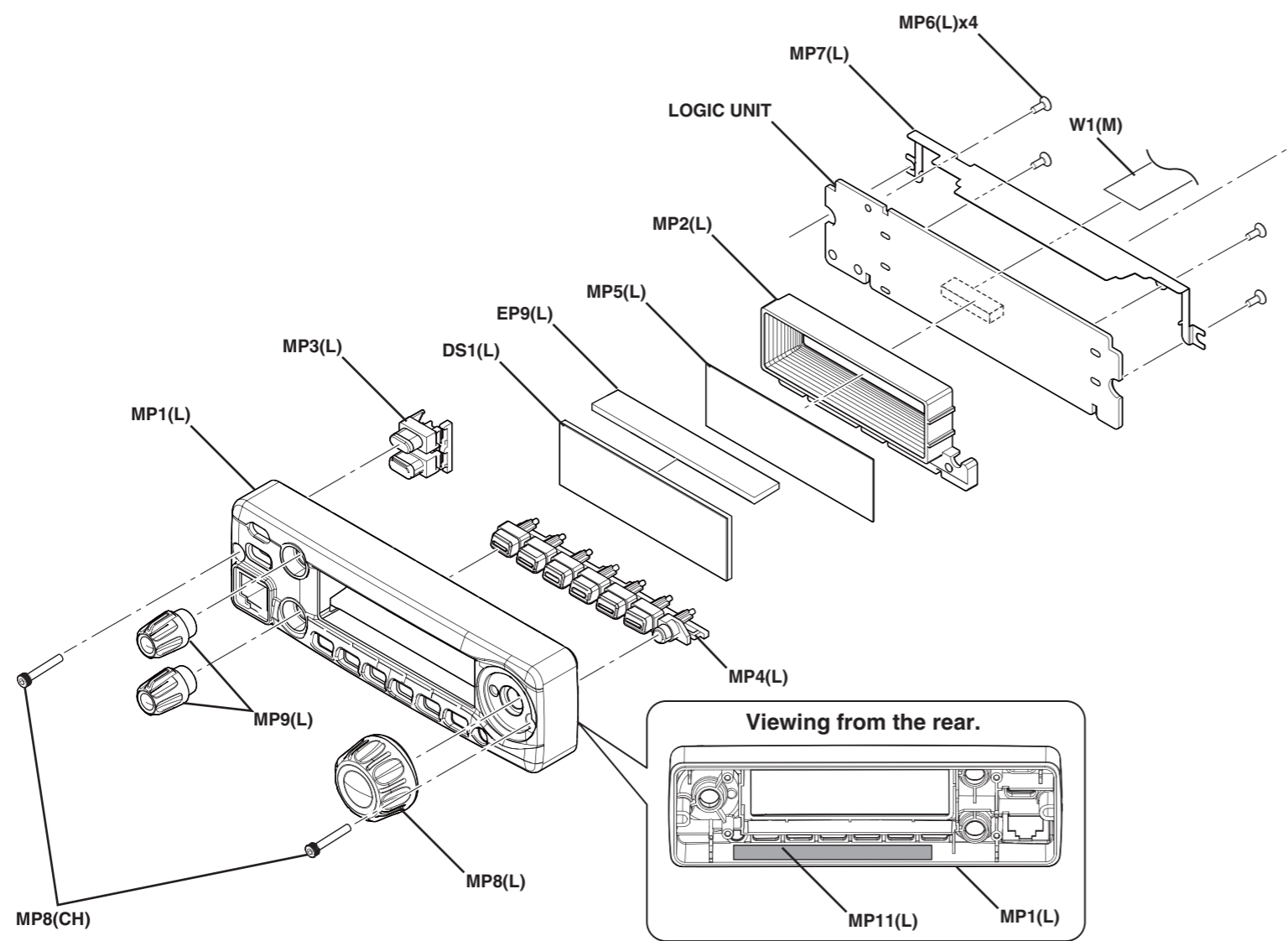


## [MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510028390	04-6294-036-000-800	1
J2*	6510014961	B2B-ZR-SM4-TF (LF) (SN)	1
J3*	6510025940	PJ-3047S <XIN>	1
W1	8900011882	OPC-1210A-1 (P0.5N36L70)	1
W2*	7030012290	RDS2T0R0	1
W6	8900015130	OPC-1131A	1
MP2*	8510019350	3179 VCO COVER Y1143	1
MP3*	8410002720	3251 PA HEATSINK	1
MP5*	8510019340	3179 VCO CASE Y1142	1

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

**Screw abbreviations** A, B0, BT: Self-tapping PH: Pan head ZK: Black NI-ZU: Nickel-Zinc SUS: Stainless

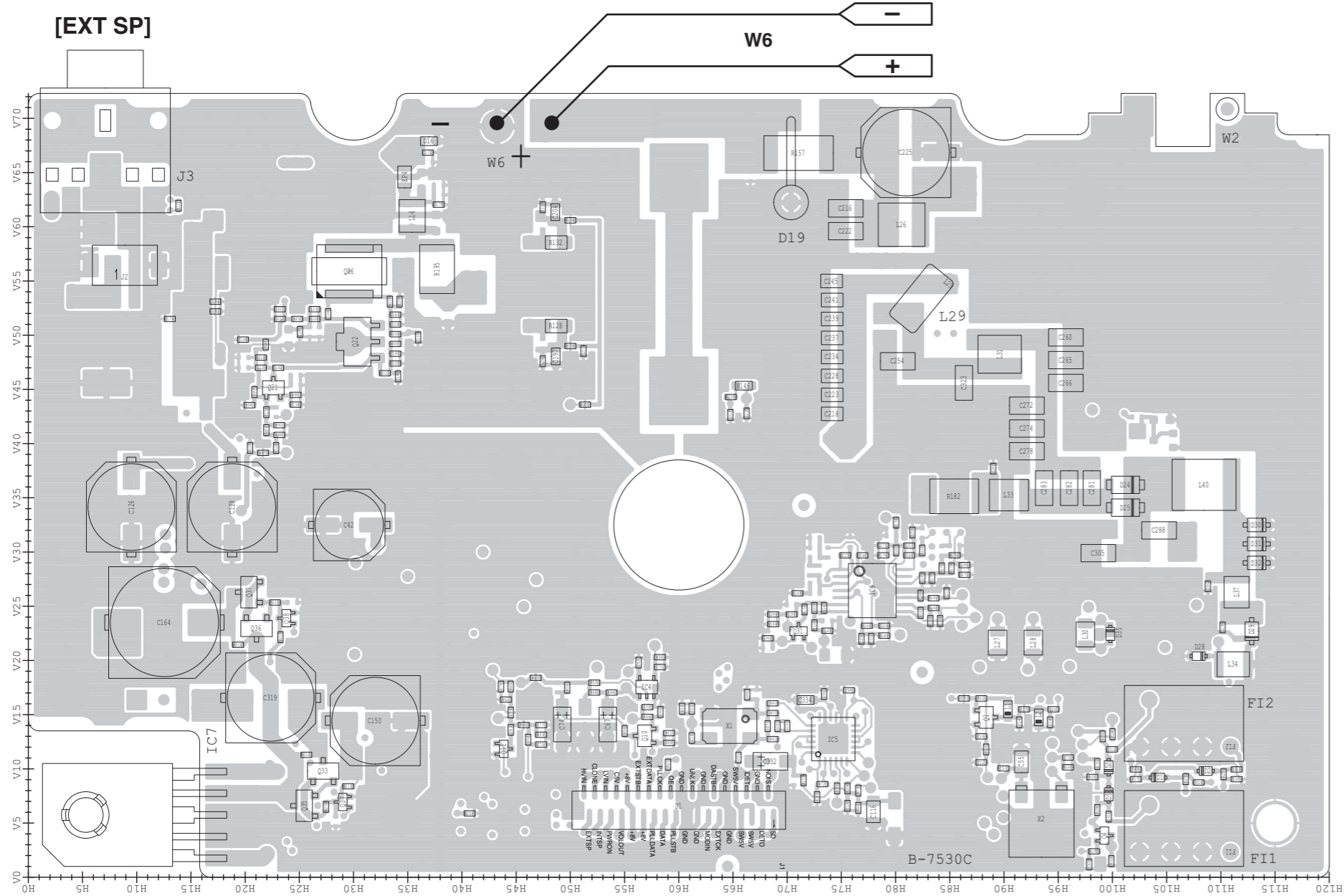


# SECTION 8

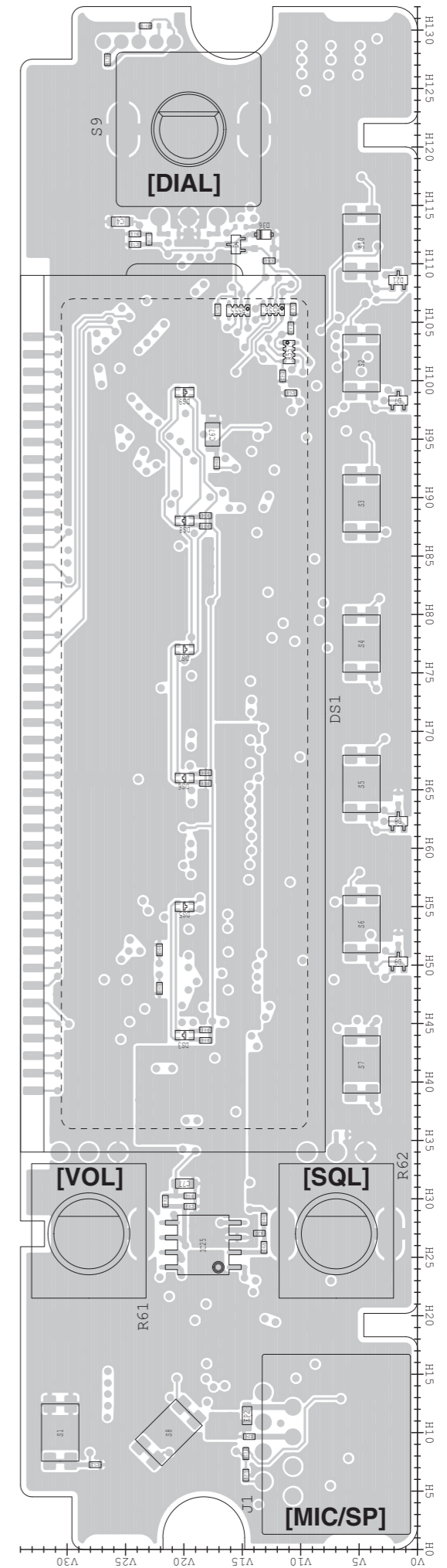
# BOARD LAYOUTS

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

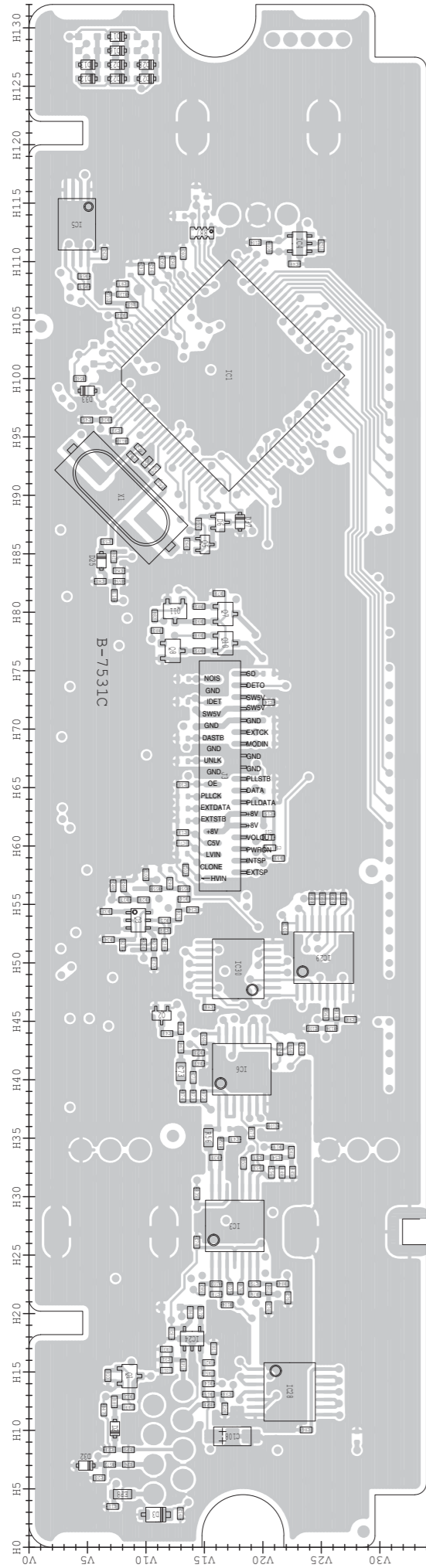
## • MAIN UNIT (TOP VIEW)



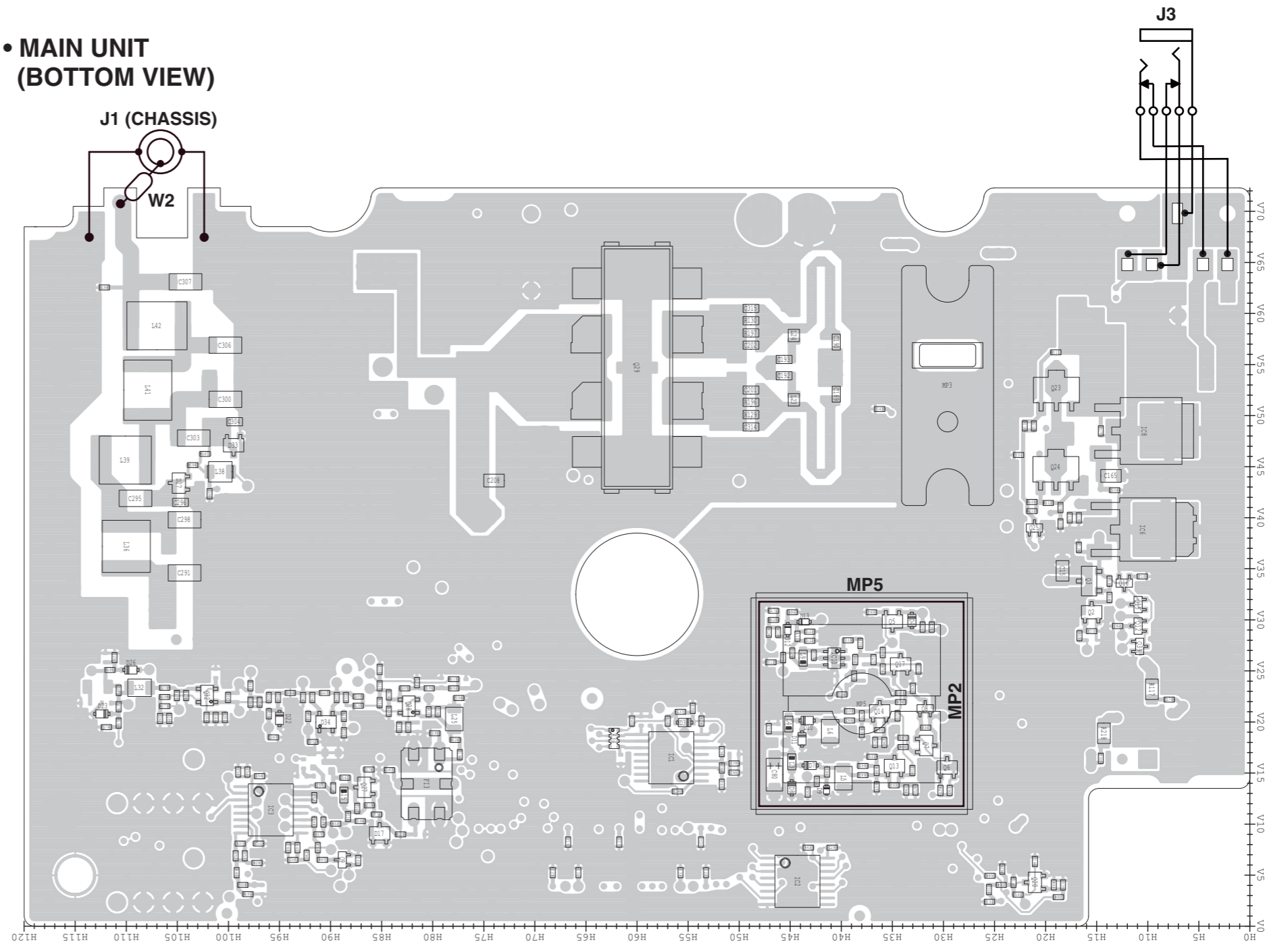
## • LOGIC UNIT (TOP VIEW)



• LOGIC UNIT  
(BOTTOM VIEW)

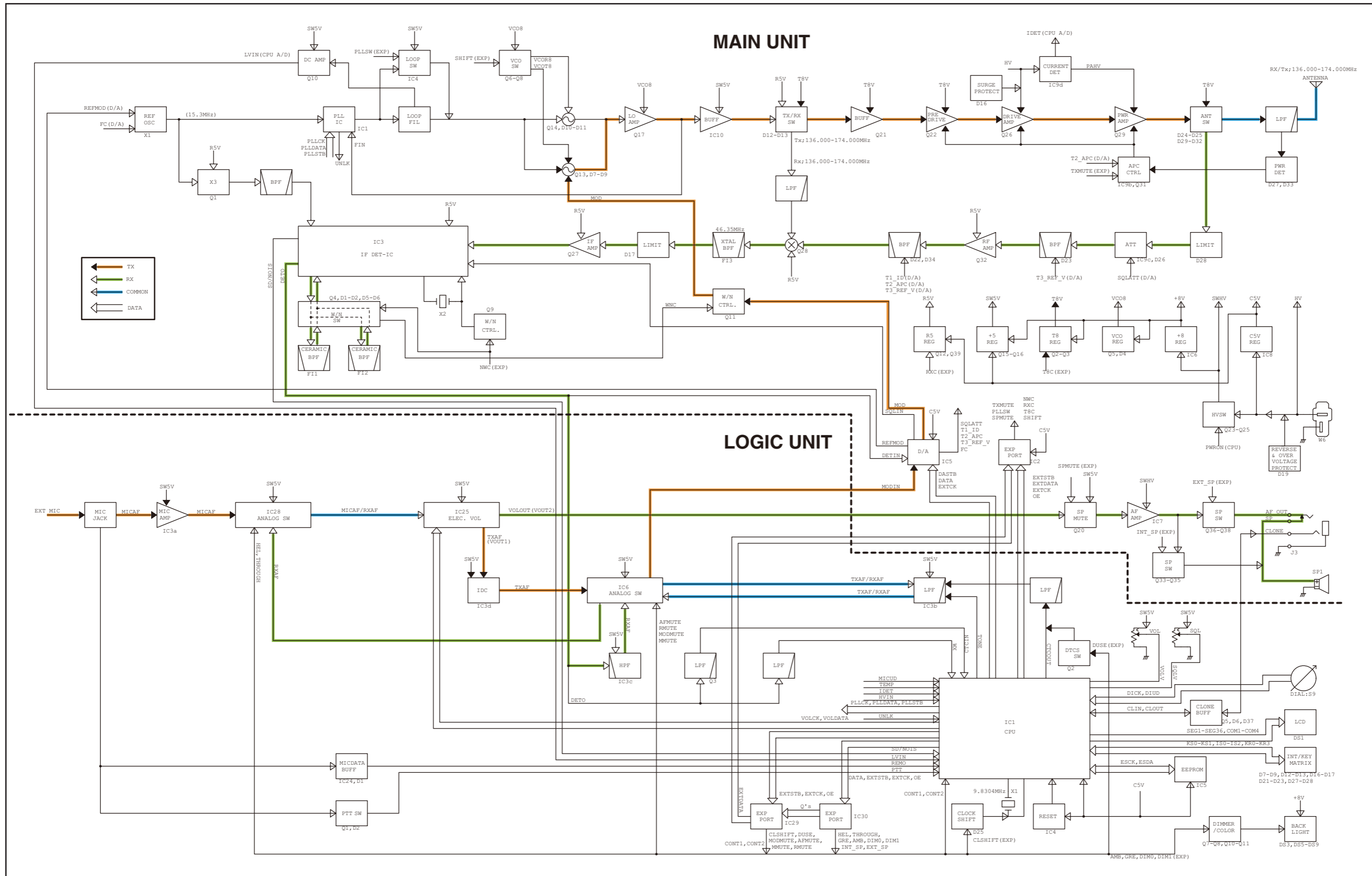


• MAIN UNIT  
(BOTTOM VIEW)



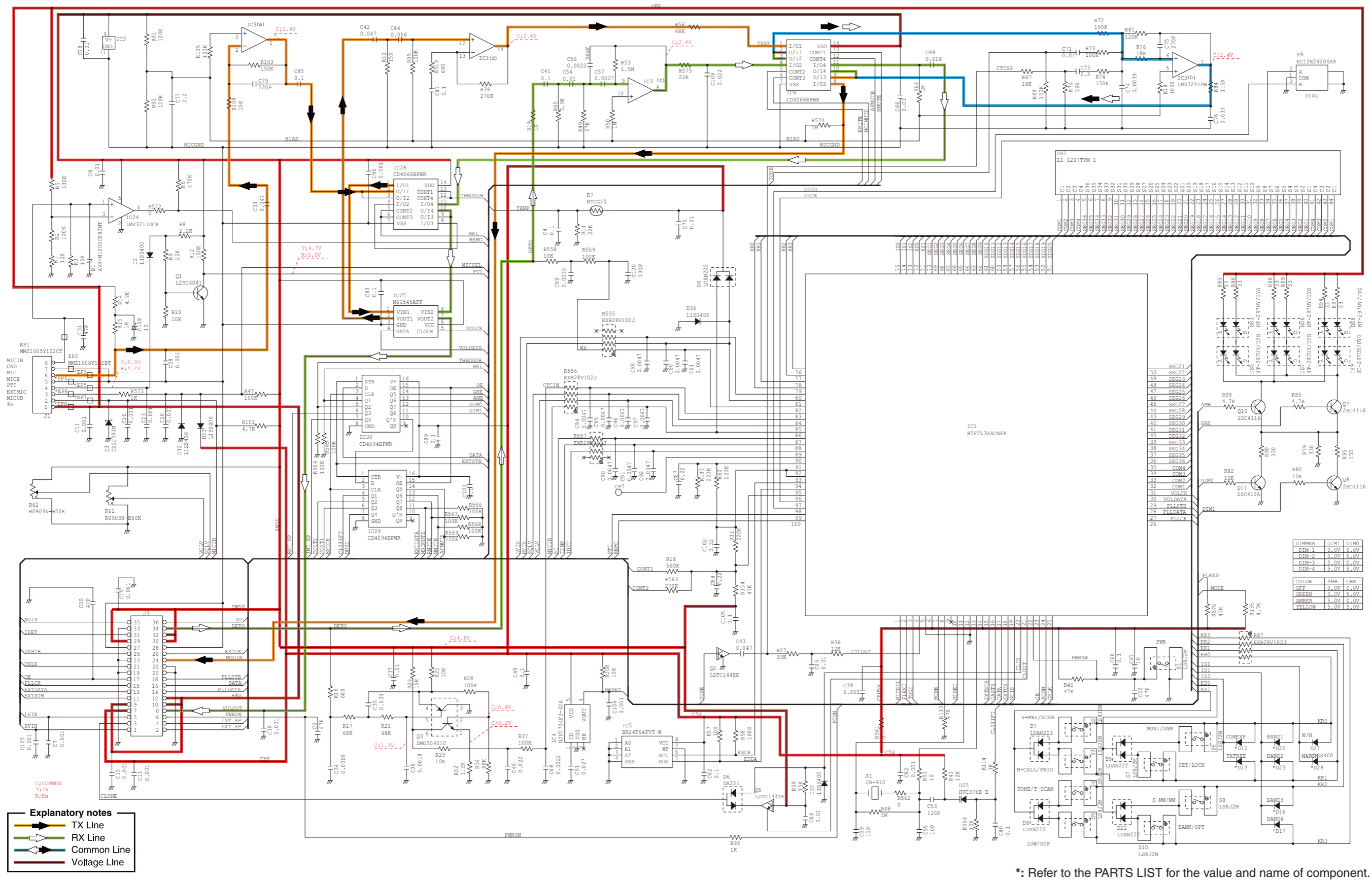
# SECTION 9

# BLOCK DIAGRAM

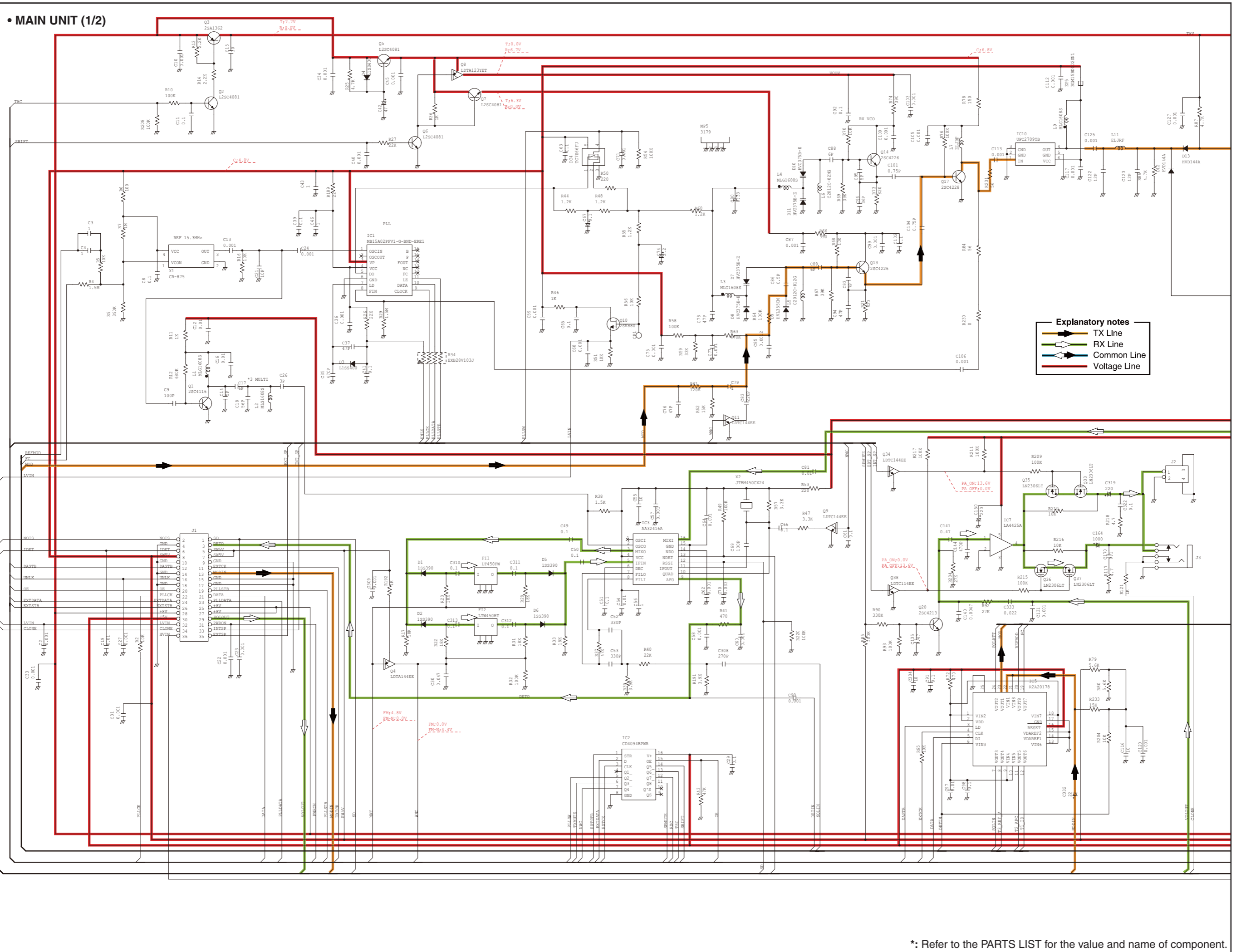


# SECTION 10 VOLTAGE DIAGRAM

## • LOGIC UNIT



• MAIN UNIT (1/2)

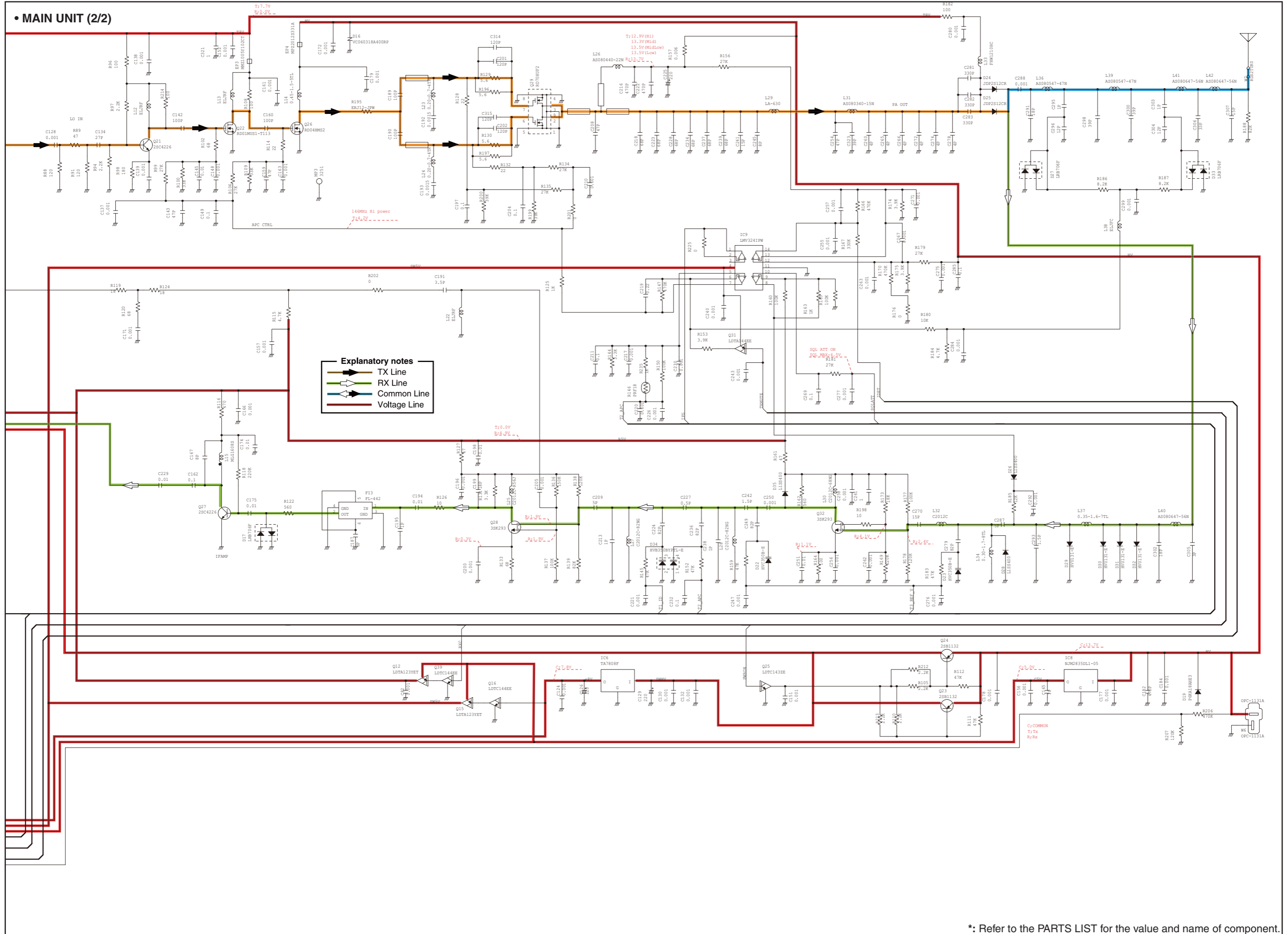


**Explanatory notes**

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

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

• MAIN UNIT (2/2)



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

If you have any inquiries regarding service, contact your distributor. The contact number or E-mail address of your distributor can be found on our website.

<https://www.icomjapan.com/>

