

## IC-V86/IC-V86-T/IC-G86

**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	Version Number	Operable Frequency Range (MHz)	Maximum transmit output power	Installed unit		Remarks
					MAIN	MAIN-A	
IC-V86	USA-01	#11	136~174	7.0 W	✓	—	
IC-V86	EXP-01	#12	136~174	7.0 W	✓	—	
IC-V86	EXP-03	#13	136~174	7.0 W	✓	—	
IC-V86-T	THA-01	#31	144~147	5.0 W	✓	—	
IC-G86	EXP-01	#41	136~174	7.0 W	—	✓	

# SECTION 4 ADJUSTMENT PROCEDURE

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

**NOTE: For products with early serial numbers**

Refer to the first edition of the [IC-V86/V86-T service manual \(published in April 2019\)](#) for the adjustment procedures.

**[Applicable serial numbers]**

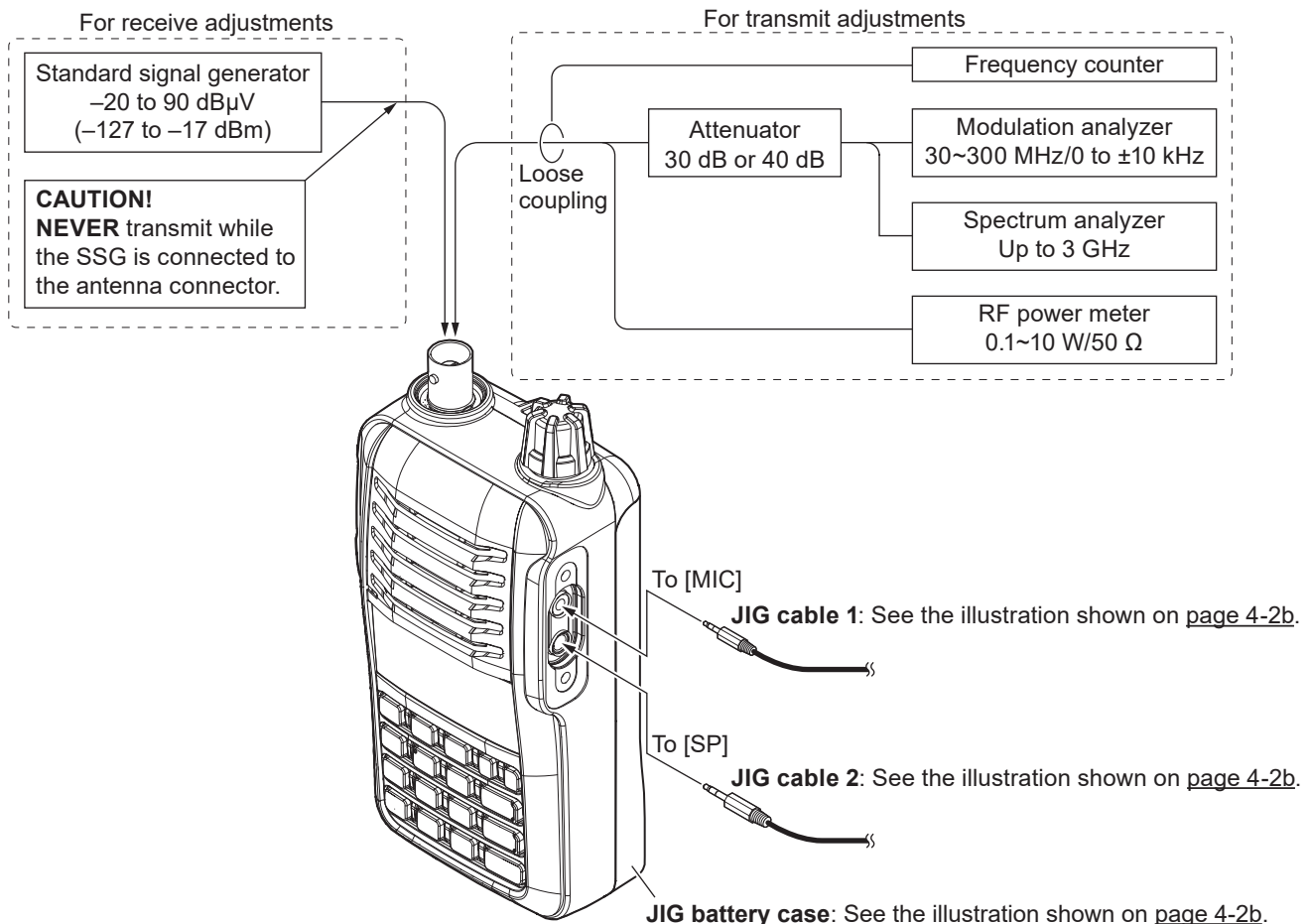
Model Name	Version Number	Serial Numbers	Model Name	Version Number	Serial Numbers
IC-V86	#11	11001001 ~ 11027100	IC-V86	#13	13001001 ~ 13004800
IC-V86	#12	12001001 ~ 12006100	IC-V86-T	#31	31001001 ~ 31004700

## 4-1 PREPARATION

### REQUIRED EQUIPMENT

EQUIPMENT	GRADE AND RANGE	EQUIPMENT	GRADE AND RANGE
DC power supply	Output voltage: 7.5 V Current capacity: 3 A or more	JIG battery case	Modified BP-263. (See the illustration shown on <a href="#">page 4-2b.</a> )
Frequency counter	Range: 0.1~300 MHz Accuracy: ±1 ppm or better	JIG plug	Modified 3.5 mm (1/8 inch) stereo plug. (See the illustration shown on <a href="#">page 4-2b.</a> )
Attenuator	Attenuation: 30 dB or 40 dB Capacity: More than 10 W	JIG cable 1	Modified 2.5 mm (1/10 inch) stereo plug. (See the illustration shown on <a href="#">page 4-2b.</a> )
Audio generator (AG)	Frequency range: 300~3000 Hz Output level: 1 ~ 500 mV	JIG cable 2	Modified 3.5 mm (1/8 inch) stereo plug. (See the illustration shown on <a href="#">page 4-2b.</a> )
RF power meter (50 Ω terminated)	Measuring range: 0.1 ~ 10 W Frequency range: 100 ~ 300 MHz SWR: Less than 1.2 : 1	Standard signal generator (SSG)	Frequency range: 0.1 ~ 300 MHz Output level: -20 ~ 90 dBμV (-127 to -17 dBm)
AC millivoltmeter	Measuring range: 10 mV to 10 V	Distortion meter	Measuring accuracy: 3% or less at 1 kHz Input level: 50 mV to 10 V
Modulation analyzer	Frequency range: 30 ~ 300 MHz Measuring range: 0 ~ ±10 kHz	External speaker	Input impedance: 8 Ω Capacity: More than 1 W
Spectrum analyzer	Measuring range: Up to 3 GHz	Ammeter	Measuring range: 0 to 10 A

### CONNECTIONS

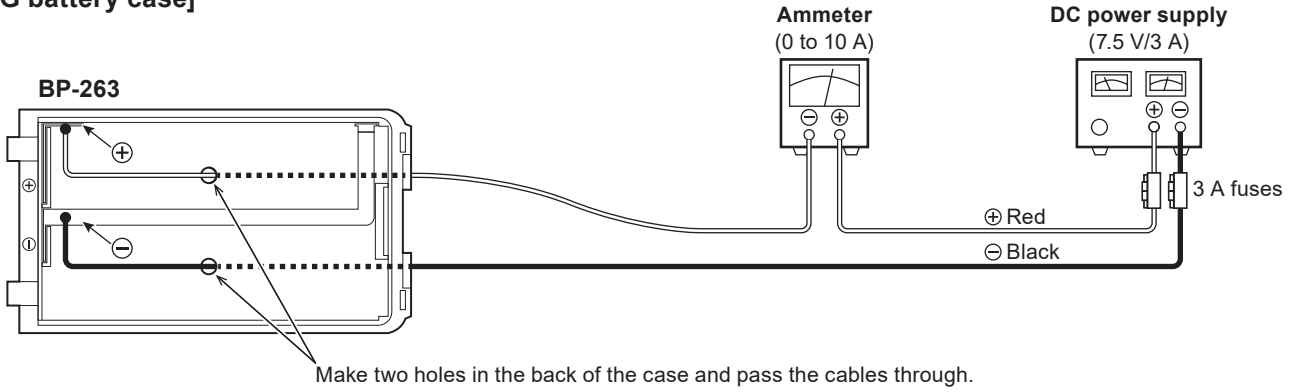


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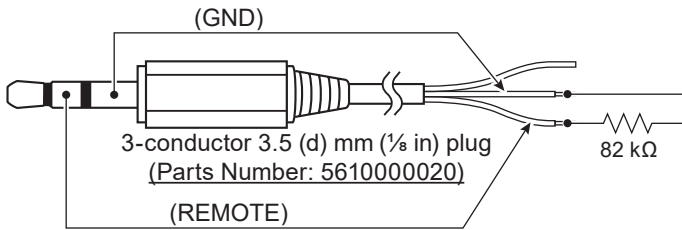
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**JIG**

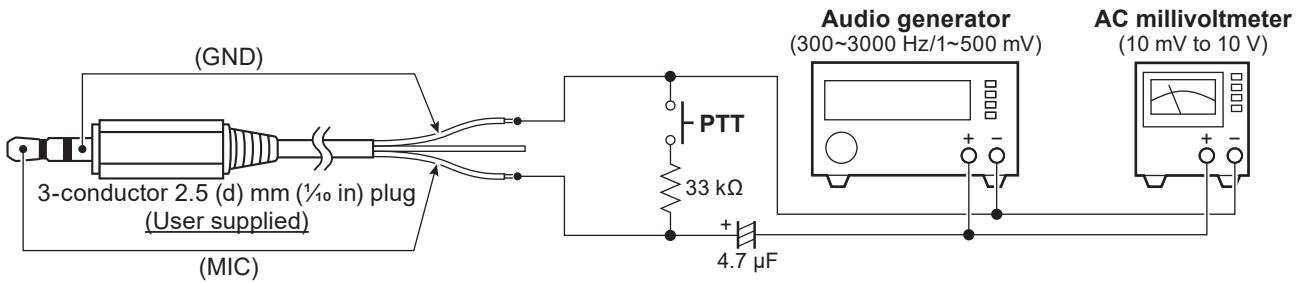
**[JIG battery case]**



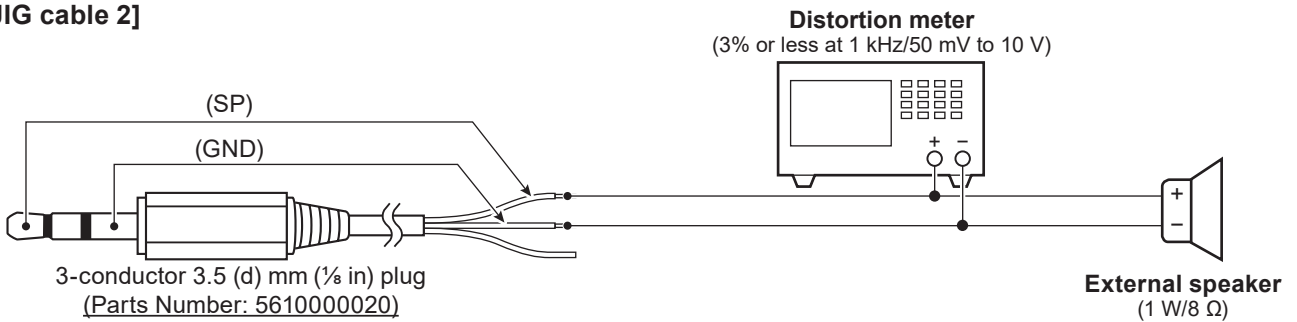
**[JIG plug]**



**[JIG cable 1]**



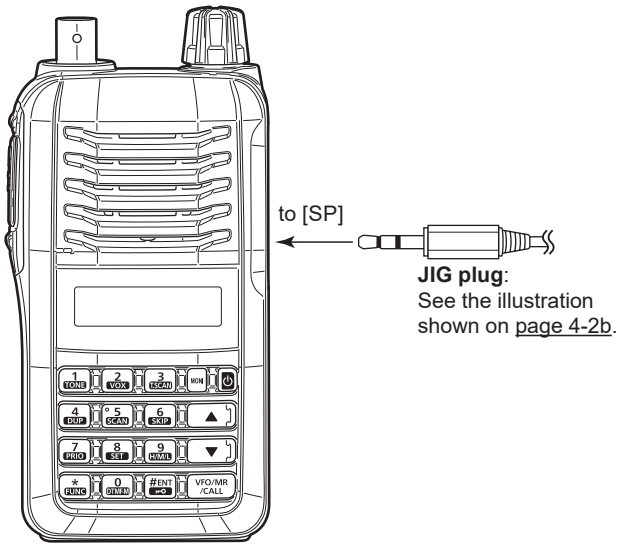
**[JIG cable 2]**



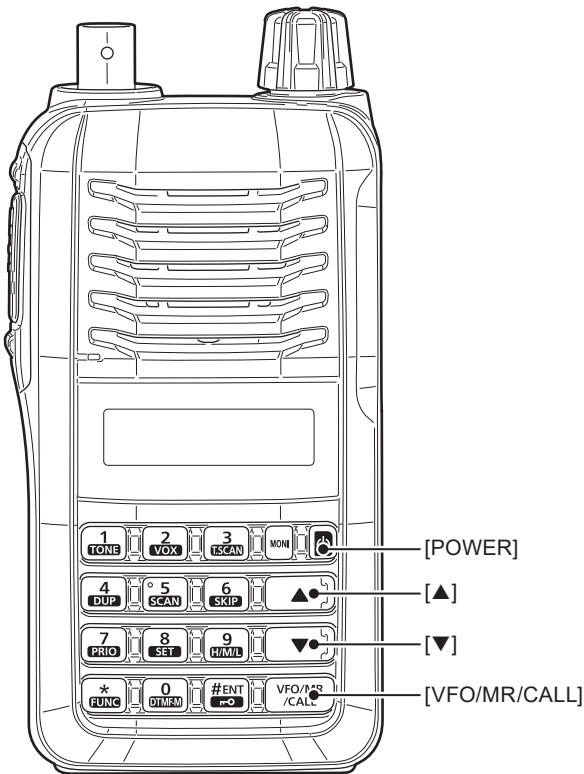
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**ENTERING THE ADJUST MODE**

1. Turn OFF the power.
2. Connect the JIG plug to the [SP] connector.



3. While holding down all [**▲**]/[**▼**] and [VFO/MR/CALL], turn ON the transceiver power to enter the adjust mode.

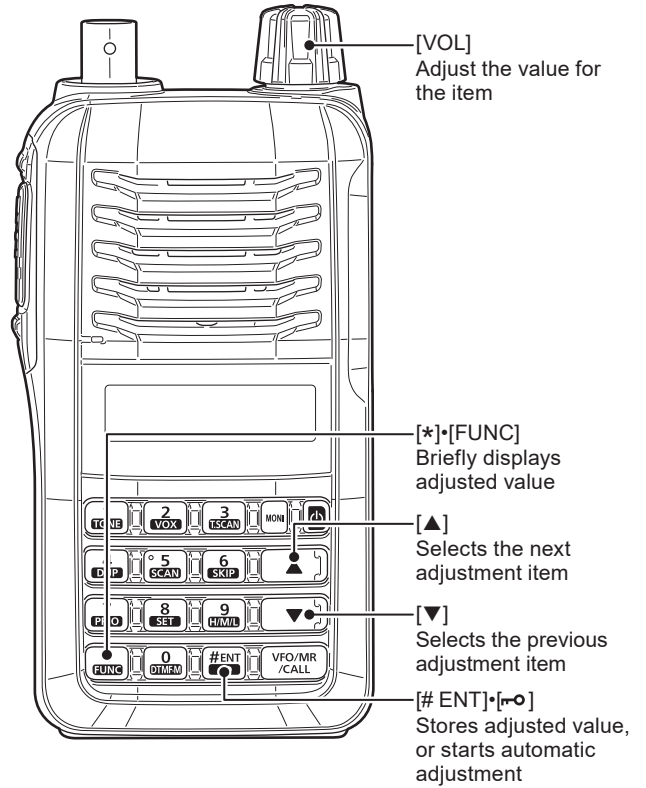


4. The adjust mode is displayed.



**KEY ASSIGNMENTS FOR THE ADJUST MODE**

- Push [**▲**] to select the next adjustment item, push [**▼**] to select the previous adjustment item.
- Rotate [VOL] to set or modify the adjustment value.
- Push [**# ENT**]•[**↻**] to store the adjusted value, or start automatic adjustment.
- Push [**\***]•[FUNC] to briefly display the adjustment value.



**ADJUST MODE SCREENS**



Adjustment item    Adjustment frequency



While rotating [VOL], or when [**\***]•[FUNC] is pushed



Adjusted value

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**4-2 TRANSMIT ADJUSTMENTS**

ADJUSTMENT	ADJUSTMENT ITEM DISPLAY	SETTING CONDITION	OPERATION
<b>FREQUENCY -Verification-</b>	1	<ul style="list-style-type: none"> <li>Connect the RF power meter or the dummy load to the antenna connector.</li> <li>Loosely couple the frequency counter to the antenna connector.</li> <li>Transmitting</li> </ul>	145.999635 ~ 146.000365 MHz (If out of the specified range, adjust the frequency by [VOL], then push [# ENT]•[F-O].)
<b>TRANSMIT OUTPUT POWER -Adjustment- (Extra High)</b>	1	<ul style="list-style-type: none"> <li>Connect the RF power meter to the antenna connector.</li> <li>While transmitting, adjust the connected DC power supply voltage to 7.5 V.</li> <li>Transmitting</li> </ul>	Set the transmit output power to 7.0 W (within ±0.2 W) by [VOL], then push [# ENT]•[F-O]. Note the adjusted value as the reference value A.
<b>(High)</b>	2		Set the transmit output power to 5.5 W (within ±0.2 W) by [VOL], then push [# ENT]•[F-O]. Note the adjusted value as the reference value B.
<b>(Middle)</b>	3		Set the transmit output power to 2.5 W (within ±0.2 W) by [VOL], then push [# ENT]•[F-O]. Note the adjusted value as the reference value C.
<b>(Low)</b>	4		Set the transmit output power to 0.5 W (within ±0.1 W) by [VOL], then push [# ENT]•[F-O]. Note the adjusted value as the reference value D.
<b>(Extra High)</b>	5	• Receiving	Set the adjustment value to the value that <u>add 4</u> to the reference value B, then push [# ENT]•[F-O].
	6		Set the adjustment value to the value that <u>subtract 5</u> to the reference value A, then push [# ENT]•[F-O].
	7		Set the adjustment value to the value that <u>subtract 1</u> to the reference value B, then push [# ENT]•[F-O].
<b>(High)</b>	8		Set the adjustment value to the value that <u>add 4</u> to the reference value B, then push [# ENT]•[F-O].
	9		Set the adjustment value to the value that <u>subtract 7</u> to the reference value B, then push [# ENT]•[F-O].
	10		Set the adjustment value to the value that <u>subtract 1</u> to the reference value B, then push [# ENT]•[F-O].
<b>(Middle)</b>	11		Set the adjustment value to the value that <u>add 1</u> to the reference value C, then push [# ENT]•[F-O].
	12		Set the adjustment value to the value that <u>subtract 3</u> to the reference value C, then push [# ENT]•[F-O].
	13		Set the adjustment value to the value that <u>add 4</u> to the reference value C, then push [# ENT]•[F-O].
<b>(Low)</b>	14		Set the adjustment value to the value that <u>add 1</u> to the reference value D, then push [# ENT]•[F-O].
	15		Set the adjustment value to the <u>reference value D</u> , then push [# ENT]•[F-O].
	16		Set the adjustment value to the value that <u>add 5</u> to the reference value D, then push [# ENT]•[F-O].



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**4-2 TRANSMIT ADJUSTMENTS (CONTINUED)**

ADJUSTMENT	ADJUSTMENT ITEM DISPLAY	SETTING CONDITION	OPERATION
<b>TRANSMIT OUTPUT POWER -Verification- (Extra High)</b>	1	<ul style="list-style-type: none"> <li>Connect the RF power meter to the antenna connector.</li> <li>While transmitting, adjust the connected DC power supply voltage to 7.5 V.</li> <li>Transmitting</li> </ul>	4.5~6.5 W (If out of the specified range, adjust the output power by [VOL], then push [# ENT]•[←○].)
	2		6.0~8.0 W (If out of the specified range, adjust the output power by [VOL], then push [# ENT]•[←○].)
	3		4.5~6.5 W (If out of the specified range, adjust the output power by [VOL], then push [# ENT]•[←○].)
<b>(High)</b>	4	<ul style="list-style-type: none"> <li>Connect the ammeter between the JIG battery case and the DC power supply.</li> <li>Transmitting</li> </ul>	2.0~3.0 W (If out of the specified range, adjust the output power by [VOL], then push [# ENT]•[←○].)
	5		
	6		
<b>(Middle)</b>	7		
	8		
	9		
<b>(Low)</b>	10	<ul style="list-style-type: none"> <li>Connect the spectrum analyzer to the antenna connector through the attenuator.</li> <li>Transmitting</li> </ul>	0.25~1.5 W (If out of the specified range, adjust the output power by [VOL], then push [# ENT]•[←○].)
	11		
	12		
<b>TRANSMITTING CURRENT -Verification-</b>	1	<ul style="list-style-type: none"> <li>Connect the ammeter between the JIG battery case and the DC power supply.</li> <li>Transmitting</li> </ul>	Less than 2.0 A
	2		
	3		
	4		
<b>SPURIOUS EMISSION -Verification-</b>	1	<ul style="list-style-type: none"> <li>Connect the spectrum analyzer to the antenna connector through the attenuator.</li> <li>Transmitting</li> </ul>	Less than -60 dBc
	2		
	3		
	4		












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## 4-2 TRANSMIT ADJUSTMENTS (CONTINUED)

ADJUSTMENT		ADJUSTMENT ITEM DISPLAY	SETTING CONDITION	OPERATION
<b>MODULATION SENSITIVITY</b> <b>-Verification-</b>	1		<ul style="list-style-type: none"> <li>• Connect the modulation analyzer to the antenna connector through the attenuator and set it to:               <ul style="list-style-type: none"> <li>HPF: OFF</li> <li>LPF: 20 kHz or 15 kHz</li> <li>De-emphasis: OFF</li> <li>Detector: (P-P)/2</li> </ul> </li> <li>• Connect the audio generator and the AC millivoltmeter to [MIC] through the JIG cable 1, and set it to:               <ul style="list-style-type: none"> <li>Frequency: 1 kHz</li> <li>Waveform: Sine wave</li> <li>Level: Adjust to the level so that the modulation analyzer shows <math>\pm 1.50</math> kHz of deviation</li> </ul> </li> <li>• Transmitting</li> </ul>	10.0~20.0 mV (Audio generator output level)
<b>TRANSMIT S/N RATIO</b> <b>-Verification-</b>	1		<ul style="list-style-type: none"> <li>• Set the modulation analyzer to:               <ul style="list-style-type: none"> <li>HPF: 50 Hz</li> <li>LPF: 3 kHz</li> <li>De-emphasis: ON</li> <li>Detector: (P-P)/2</li> </ul> </li> <li>• Set the audio generator output level so that the modulation analyzer shows <math>\pm 1.50</math> kHz of deviation.</li> <li>• Transmitting</li> <li>• Toggle the audio generator output ON and OFF.</li> </ul>	More than 34 dB

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### 4-3 RECEIVE ADJUSTMENTS

ADJUSTMENT	ADJUSTMENT ITEM DISPLAY	SETTING CONDITION	OPERATION
NOISE SQUELCH -Adjustment-	1 	<ul style="list-style-type: none"> <li>Connect the standard signal generator (SSG) to the antenna connector and set it to:               <ul style="list-style-type: none"> <li>Frequency: 146.020 MHz</li> <li>Modulation: 1 kHz</li> <li>Deviation: <math>\pm 1.5</math> kHz</li> <li>Level*: <math>-17</math> dB<math>\mu</math>V (<math>-124</math> dBm)</li> </ul> </li> <li>Receiving</li> </ul>	Push [# ENT]•[ <del>0</del> ]. (Automatic adjustment)
S-METER -Adjustment-	1 	<ul style="list-style-type: none"> <li>Set the SSG as:               <ul style="list-style-type: none"> <li>Level*: <math>-13</math> dB<math>\mu</math>V (<math>-120</math> dBm)</li> </ul> </li> <li>Receiving</li> </ul>	Push [# ENT]•[ <del>0</del> ]. (Automatic adjustment)
RECEIVE SENSITIVITY -Verification-	1 	<ul style="list-style-type: none"> <li>Connect the distortion meter and the external speaker to [SP] through the JIG cable 2.</li> <li>Set the SSG as:               <ul style="list-style-type: none"> <li>Frequency: 136.020 MHz</li> <li>Level: Set to the level so that the distortion meter shows 12 dB SINAD.</li> </ul> </li> <li>Receiving</li> </ul>	Less than $-10$ dB $\mu$ V* ( $-117$ dBm) (SSG output level)
	2 	<ul style="list-style-type: none"> <li>Set the SSG as:               <ul style="list-style-type: none"> <li>Frequency: 155.020 MHz</li> <li>Level: Set to the level so that the distortion meter shows 12 dB SINAD.</li> </ul> </li> <li>Receiving</li> </ul>	
	3 	<ul style="list-style-type: none"> <li>Set the SSG as:               <ul style="list-style-type: none"> <li>Frequency: 173.980 MHz</li> <li>Level: Set to the level so that the distortion meter shows 12 dB SINAD.</li> </ul> </li> <li>Receiving</li> </ul>	
AUDIO OUTPUT LEVEL -Verification-	1 	<ul style="list-style-type: none"> <li>Set the SSG as:               <ul style="list-style-type: none"> <li>Frequency: 155.020 MHz</li> <li>Level*: <math>+60</math> dB<math>\mu</math>V (<math>-47</math> dBm)</li> </ul> </li> <li>Receiving</li> <li>Adjust the audio output level so that the distortion meter shows 5% of distortion.</li> </ul>	More than 0.45 W (More than 1.90 V)
RECEIVE S/N RATIO -Verification-	1 	<ul style="list-style-type: none"> <li>Receiving</li> <li>Adjust the audio output level so that the distortion meter shows 1.34 V.</li> <li>Toggle the SSG's modulation ON and OFF.</li> </ul>	More than 34 dB
	2 	<ul style="list-style-type: none"> <li>Set the SSG as:               <ul style="list-style-type: none"> <li>Frequency: 136.020 MHz</li> </ul> </li> <li>Receiving</li> </ul>	
	3 	<ul style="list-style-type: none"> <li>Set the SSG as:               <ul style="list-style-type: none"> <li>Frequency: 173.980 MHz</li> </ul> </li> <li>Receiving</li> </ul>	
RECEIVING CURRENT -Verification- (Maximum audio)	1 	<ul style="list-style-type: none"> <li>Connect the ammeter between the JIG battery case and the DC power supply.</li> <li>Set the SSG modulation ON.</li> <li>Receiving</li> <li>Adjust the audio output to the maximum level.</li> </ul>	Less than 0.6 A
(Stand-by)	2	<ul style="list-style-type: none"> <li>No optional unit is connected.</li> <li>No RF signal is received.</li> <li>Squelch closed.</li> </ul>	Less than 80 mA
<u>For only IC-V86 and IC-V86-T:</u> DEFAULT BATTERY PACK SETTING	1 	–	Select 01 (Ni-MH for [#13]) or 02 (Li-ion for [#11], [#12], and [#31]) by [VOL], then push [# ENT]•[ <del>0</del> ].

\*The output level of the standard signal generator (SSG) is measured at the load end (PD).





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[MAIN UNIT] (for IC-V86 and IC-V86-T)

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

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.

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**[MAIN UNIT] (for IC-V86 and IC-V86-T)**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C798	4030022260	S.CER GRM033R60J105MEA2D	B	40.3/40.2
C799	4030022260	S.CER GRM033R60J105MEA2D	T	39.0/35.7
C800	4030022160	S.CER GRM033B31A104KE84D	B	32.2/7.1
C802	4030022260	S.CER GRM033R60J105MEA2D	T	18.4/31.3
C803	4030025320	S.CER GRM0332C1H151JA01D	B	20.2/30.5
C804	4030022260	S.CER GRM033R60J105MEA2D	T	21.9/29.3
C805	4030025370	S.CER GRM033R61C104KE14D	B	12.0/31.3
C806	4030025320	S.CER GRM0332C1H151JA01D	T	37.7/36.3
C807	4030022260	S.CER GRM033R60J105MEA2D	T	39.0/35.1
C808	4030022260	S.CER GRM033R60J105MEA2D	T	41.2/46.0
C809	4030022260	S.CER GRM033R60J105MEA2D	T	39.0/36.3
C810	4030022260	S.CER GRM033R60J105MEA2D	B	22.1/47.5
C811	4550007520	S.TAN F931A106MAABMA	B	25.1/43.8
Eqv.	4550009370	S.TAN 267E1002106MR533		
C812	4030022260	S.CER GRM033R60J105MEA2D	B	21.5/47.5
C813	4030023110	S.CER 0402B152K500CT	B	22.5/29.1
C814	4030022260	S.CER GRM033R60J105MEA2D	B	50.9/31.1
C815	4030022160	S.CER GRM033B31A104KE84D	B	33.2/32.9
C817	4030022260	S.CER GRM033R60J105MEA2D	T	18.4/33.2
C818	4030022260	S.CER GRM033R60J105MEA2D	T	17.8/31.3
C819	4030022260	S.CER GRM033R60J105MEA2D	T	17.8/33.2
C820	4030022160	S.CER GRM033B31A104KE84D	B	16.8/44.3
J700	6450000131	CON HSJ1102-018540		
J701	6450002530	CON HSJ4456-010320		
DS400	5030004550	LCD GP11538A6		
DS401	5040003500	S.LED HT-191 UYG-K828	T	52.8/4.6
DS402	5040003500	S.LED HT-191 UYG-K828	T	48.3/4.6
MC700	7700003280	S.MIC SPU0410HR5H-PB-7	T	36.6/6.6
S400	2250001090	ENC ED08902OFK150S070C-2015		
Eqv.	7600000210	ENC TP70N00E20-15F-1903 [#13]		
S401	2260003490	S.SWI TAFG-12W-QR	B	17.4/1.9
EP1	8930101610	LCD SRCN-4066-SP-N-W (SHJ)		
EP3	6910018460	S.BEA MMZ1005Y102C-T	B	33.3/9.5
EP4	6910014690	S.BEA MPZ1608S221A-T	B	24.5/20.0
EP400	6910021240	S.BEA MMZ1005A152ET	B	78.9/38.3
EP700	6910018460	S.BEA MMZ1005Y102C-T	B	24.0/45.6
EP701	6910018460	S.BEA MMZ1005Y102C-T	B	18.7/45.5
EP702	6910019900	S.BEA MPZ1608S601AT	B	26.6/42.1
EP703	6910016330	S.BEA MMZ1005S 601CT-S	B	38.3/42.0
EP704	6910018460	S.BEA MMZ1005Y102C-T	B	37.0/45.7

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





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**[MAIN-A UNIT] (for IC-G86)**

REF NO.	PART NO.	DESCRIPTION		M.	H/V LOCATION
J700	6450000131	CON	HSJ1102-018540		
J701	6450002530	CON	HSJ4456-010320		
DS400	5030004550	LCD	GP11538A6		
DS401	5040003500	S.LED	HT-191 UYG-K828	T	52.8/4.6
DS402	5040003500	S.LED	HT-191 UYG-K828	T	48.3/4.6
MC700	7700003280	S.MIC	SPU0410HR5H-PB-7	T	36.6/6.6
S400	2250001090	ENC	ED08902OFK150S070C-2015		
S401	2260003490	S.SWI	TAFG-12W-QR	B	17.4/1.9
EP1	8930101610	LCD	SRCN-4066-SP-N-W (SHJ)		
EP3	6910018460	S.BEA	MMZ1005Y102C-T	B	33.3/9.5
EP4	6910014690	S.BEA	MPZ1608S221A-T	B	24.5/20.0
EP400	6910021240	S.BEA	MMZ1005A152ET	B	78.9/38.3
EP700	6910018460	S.BEA	MMZ1005Y102C-T	B	24.0/45.6
EP701	6910018460	S.BEA	MMZ1005Y102C-T	B	18.7/45.5
EP702	6910019900	S.BEA	MPZ1608S601AT	B	26.6/42.1
EP703	6910016330	S.BEA	MMZ1005S 601CT-S	B	38.3/42.0
EP704	6910018460	S.BEA	MMZ1005Y102C-T	B	37.0/45.7

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

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# SECTION 6 MECHANICAL PARTS

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### [CHASSIS PARTS]

REF NO.	PART NO.	DESCRIPTION	QTY.
J1	6510032950	BNC-R4066	1
MP1	8010021713	3285 CHASSIS-3	1
MP2	8930079900	3285 TERMINAL HOLDER	1
MP5	8930104470	4066 MINUS TERMINAL	1
MP9	8830003390	VR NUT (AB)	1
MP10	8610014170	KNOB N-391	1
MP11	8930080280	3254 TOP SEAL	1
MP12	8810009511	PHBT M2 × 4 NI-ZC3	9
MP13	8810009511	PHBT M2 × 4 NI-ZC3	1
MP15	8810008761	PHBT M2 × 8 NI-ZC3	2
MP16	8210034561	4066 FRONT PANEL ASSEMBLY-1	[#11]
	8210034561	4066 FRONT PANEL ASSEMBLY-1	[#12]
	8210034561	4066 FRONT PANEL ASSEMBLY-1	[#13]
	8210034551	4066 FRONT PANEL ASSEMBLY (A)-1	[#31]
	8210034521	4066 FRONT PANEL (B) ASSEMBLY-1	[#41]
MP21	8930103870	3285 A-SIDE SEAL	1
MP22	8930101260	4066 SIDE PLATE	1
MP24	8930101210	THERMAL SHEET DT TC-200CAT-20 (8 × 12)	1
MP26	8830004770	STEP NUT (R)	1
MP28	8850003421	SEALING WASHER (AA)-1	1
MP30	8930104270	3620 MIC RUBBER (A)	1
MP33	8930080020	3253 A-TERMINAL	1
MP34	8930104600	INSULATION SHEET (PF)	1

### [ACCESSORIES]

REF NO.	PART NO.	DESCRIPTION	QTY.
EP1	-	FA-B57V†	[#11] 1
	-	FA-B45V†	[#12] 1
	-	FA-B57V†	[#13] 1
	-	FA-B45V†	[#31] 1
	-	FA-B57V†	[#41] 1
EP2	-	BP-298†	[#11] 1
	-	BP-298†	[#12] 1
	-	BP-264†	[#13] 1
	-	BP-298†	[#31] 1
	-	BP-298†	[#41] 1
EP3	-	BC-240†	[#11] 1
	-	BC-240†	[#12] 1
	-	BC-192†	[#13] 1
	-	BC-240†	[#31] 1
	-	BC-240†	[#41] 1
EP4	-	BC-242†	1
MP1	-	MB-124†	1
MP2	8210025841	3285 JACK PANEL-1	[#11] 1
	8210025841	3285 JACK PANEL-1	[#12] 1
	8210025841	3285 JACK PANEL-1	[#13] 1
	8210025841	3285 JACK PANEL-1	[#31] 1
	8210026621	3285 JACK PANEL (B)-1 G	[#31] 1
MP3	8810004861	PH M2 × 6 ZK3	[#41] 1
			2

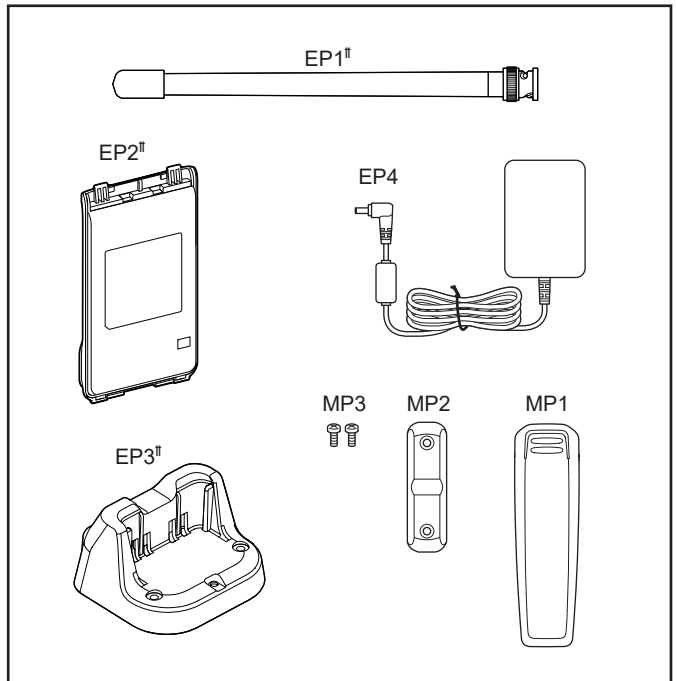
† Sold as an option.

### [MAIN UNIT] (for IC-V86 and IC-V86-T)

REF NO.	PART NO.	DESCRIPTION	QTY.
J700	6450000131	HSJ1102-018540	1
J701	6450002530	HSJ4456-010320	1
DS400	5030004550	GP11538A6	1
MC700*	7700003280	SPU0410HR5H-PB-7	1
S400	2250001090	ED08902OFK150S070C-2015	1
S401*	2260003490	TAFG-12W-QR	1
EP1	8930101610	SRCN-4066-SP-N-W	1
MP1*	8510022740	4066 VCO CASE	1
MP4*	8930101082	3620 SP SPRING-2	1
MP5*	8930100370	4066 ANT SPRING	1
MP6*	8410003170	4066 PA HEATSINK	1
MP7	8210034210	4066 REFLECTOR	1
MP8	8930101200	4066 LCD HOLDER	1
MP9	8930080260	3254 WHITE SHEET	1
MP100*	6910014760	OG-503040	1

### [MAIN-A UNIT] (for IC-G86)

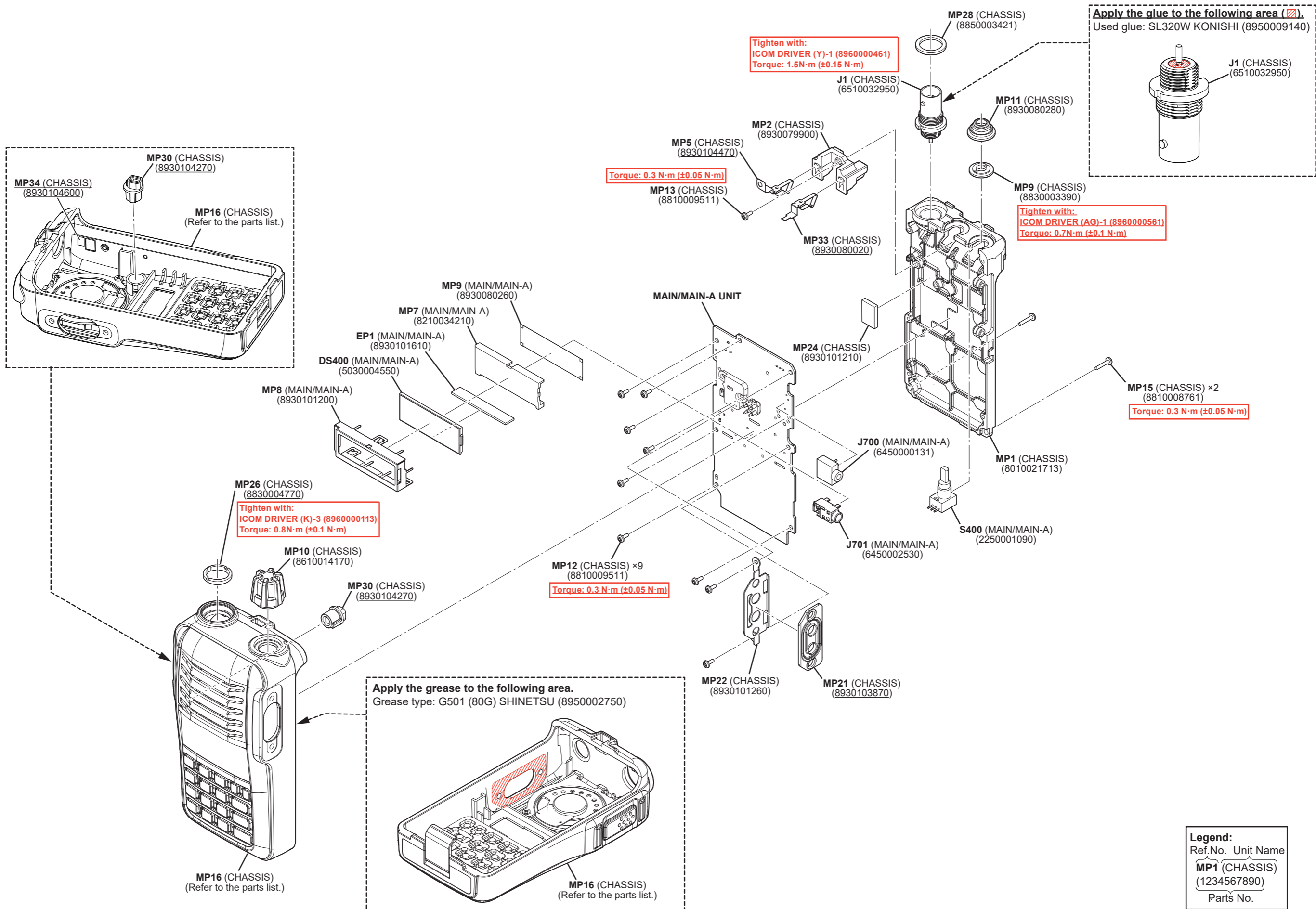
REF NO.	PART NO.	DESCRIPTION	QTY.
J700	6450000131	HSJ1102-018540	1
J701	6450002530	HSJ4456-010320	1
DS400	5030004550	GP11538A6	1
MC700*	7700003280	SPU0410HR5H-PB-7	1
S400	2250001090	ED08902OFK150S070C-2015	1
S401*	2260003490	TAFG-12W-QR	1
EP1	8930101610	SRCN-4066-SP-N-W	1
MP1*	8510022740	4066 VCO CASE	1
MP4*	8930101082	3620 SP SPRING-2	1
MP5*	8930100370	4066 ANT SPRING	1
MP6*	8410003170	4066 PA HEATSINK	1
MP7	8210034210	4066 REFLECTOR	1
MP8	8930101200	4066 LCD HOLDER	1
MP9	8930080260	3254 WHITE SHEET	1
MP100*	6910014760	OG-503040	1



††The shape may differ depending on the transceiver version.

\*: 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





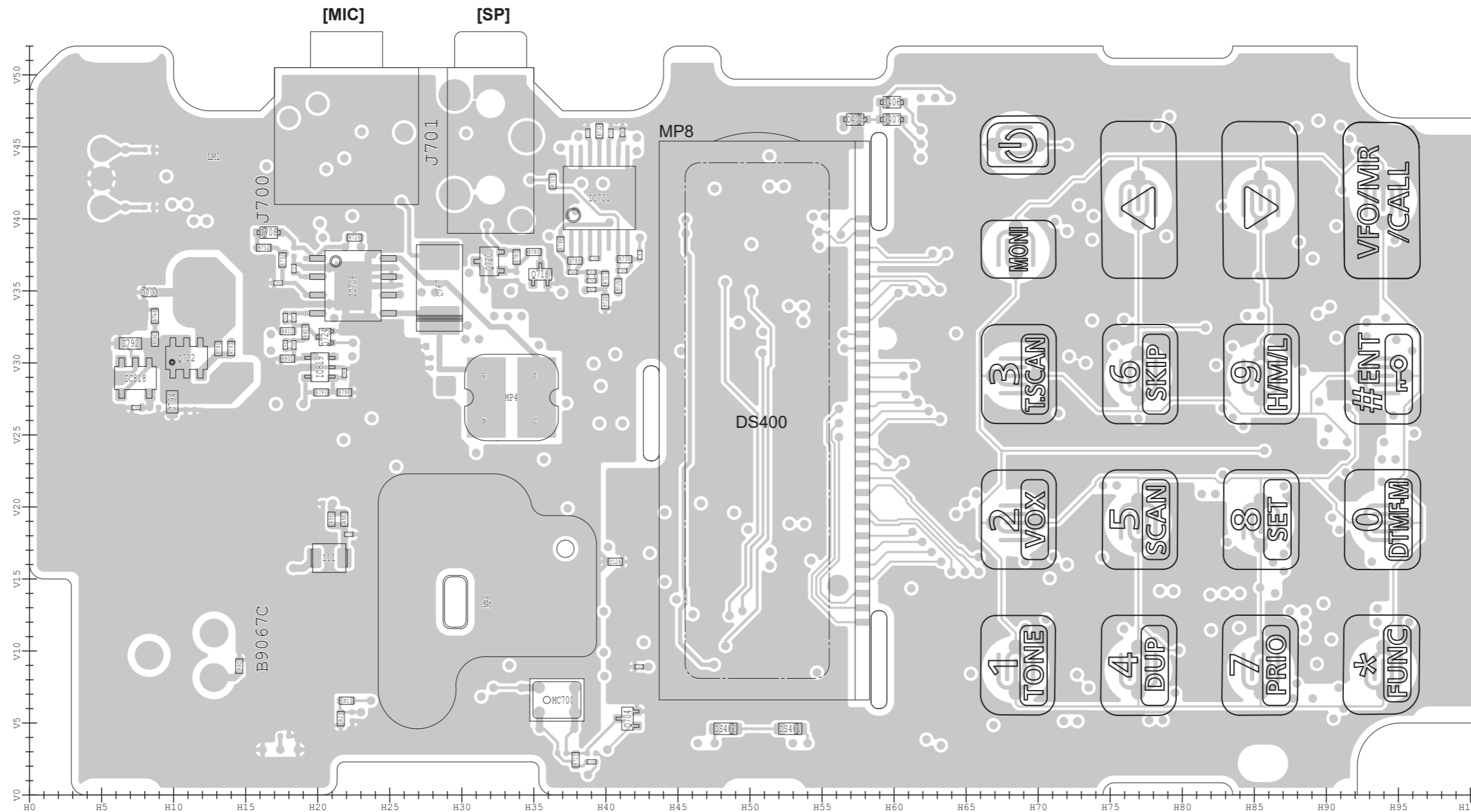
# SECTION 7 BOARD LAYOUTS

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

• **MAIN/MAIN-A UNIT (B-9067C: TOP VIEW)**

The serial numbers of transceivers that use the PCB (B-9067C).

Model Name	Version Number	Serial Numbers
IC-V86	#11	11027101 and above (Plan)
IC-V86	#12	12006101 and above (Plan)
IC-V86	#13	13004801 and above (Plan)
IC-V86-T	#31	31004701 and above (Plan)
IC-G86	#41	41008201 and above

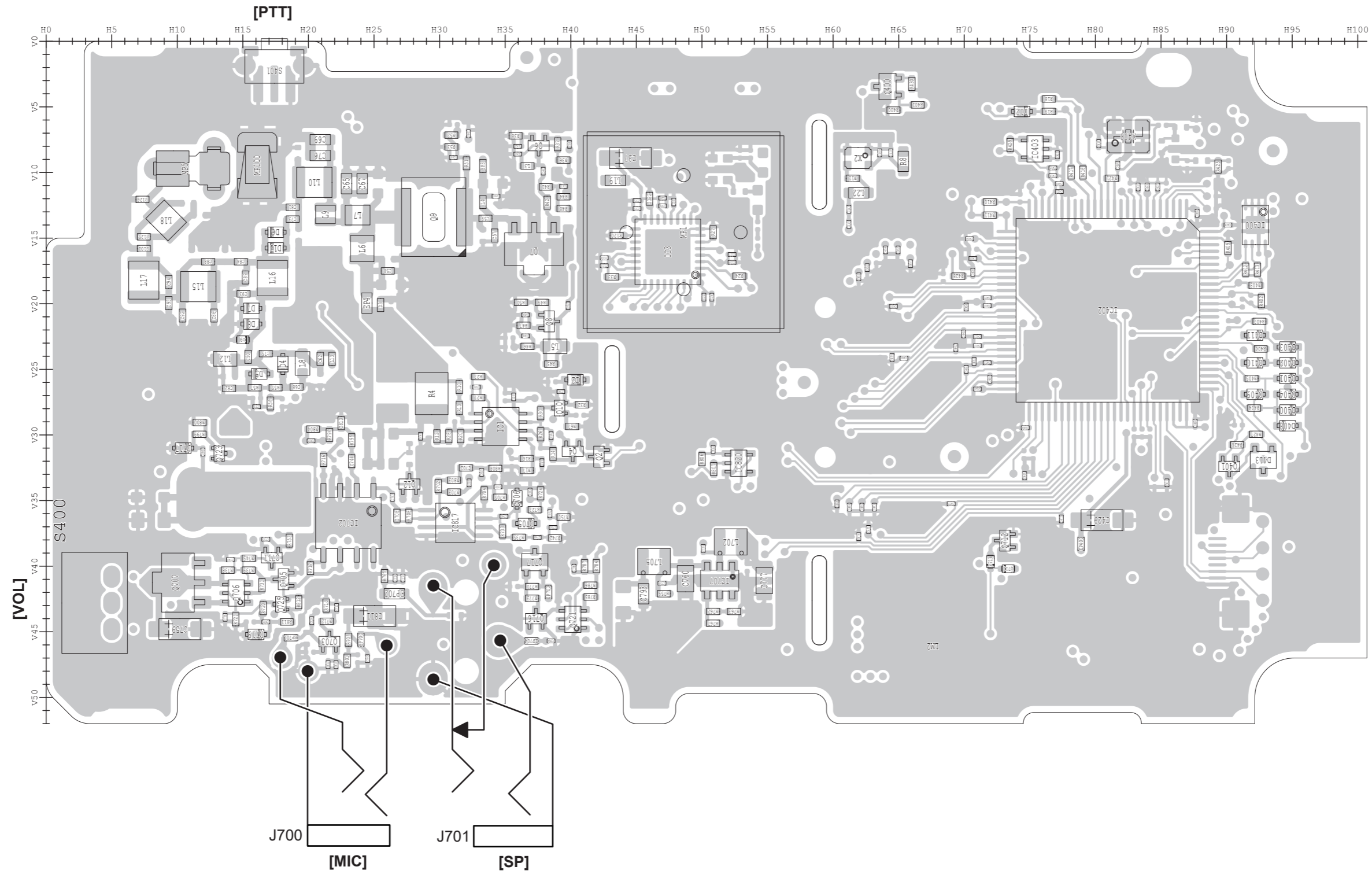


NOTE: Some parts may not be mounted on the PCB.

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

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

• **MAIN/MAIN-A UNIT (B-9067C: BOTTOM VIEW)**



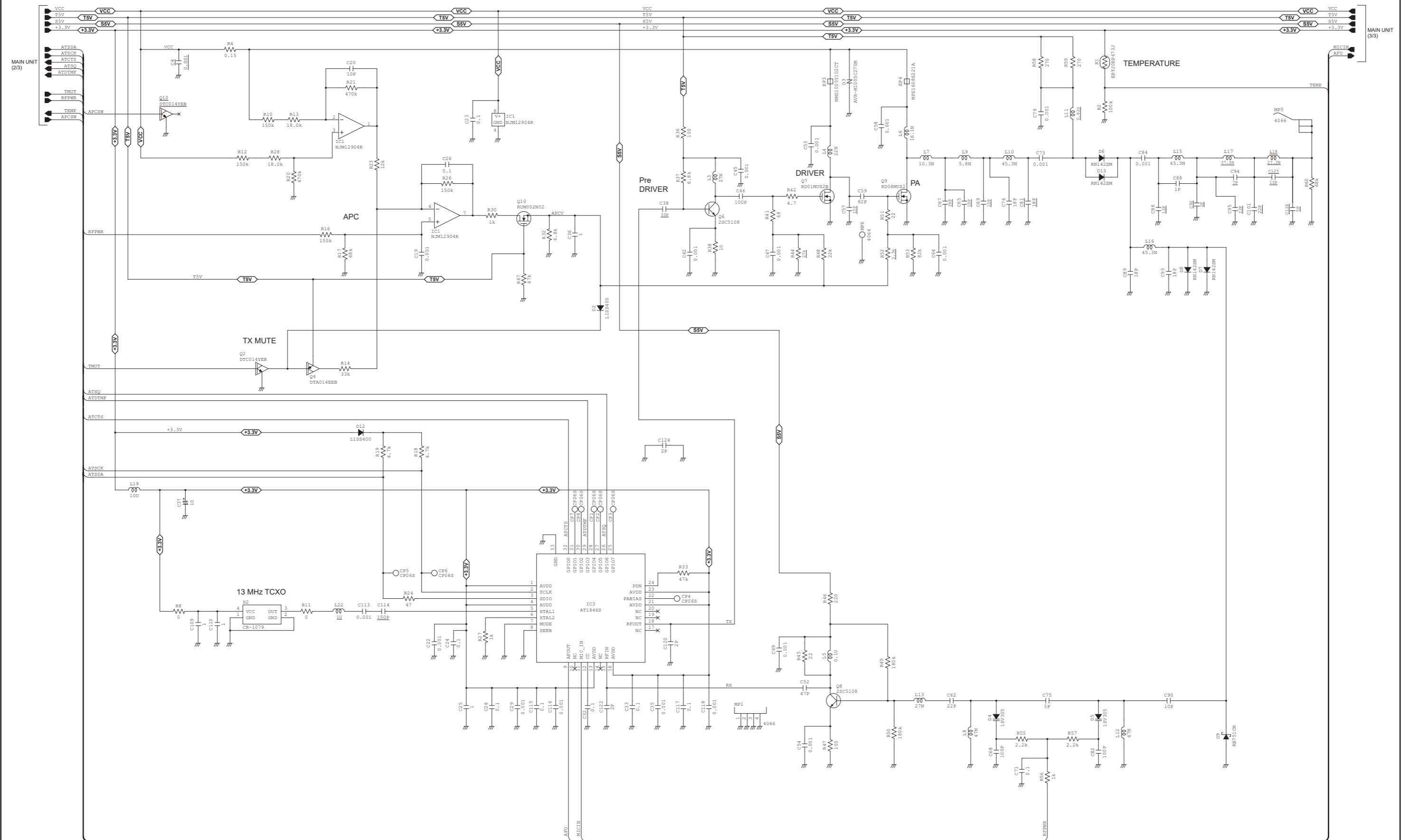
NOTE: Some parts may not be mounted on the PCB.

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

# SECTION 8 SCHEMATIC DIAGRAM

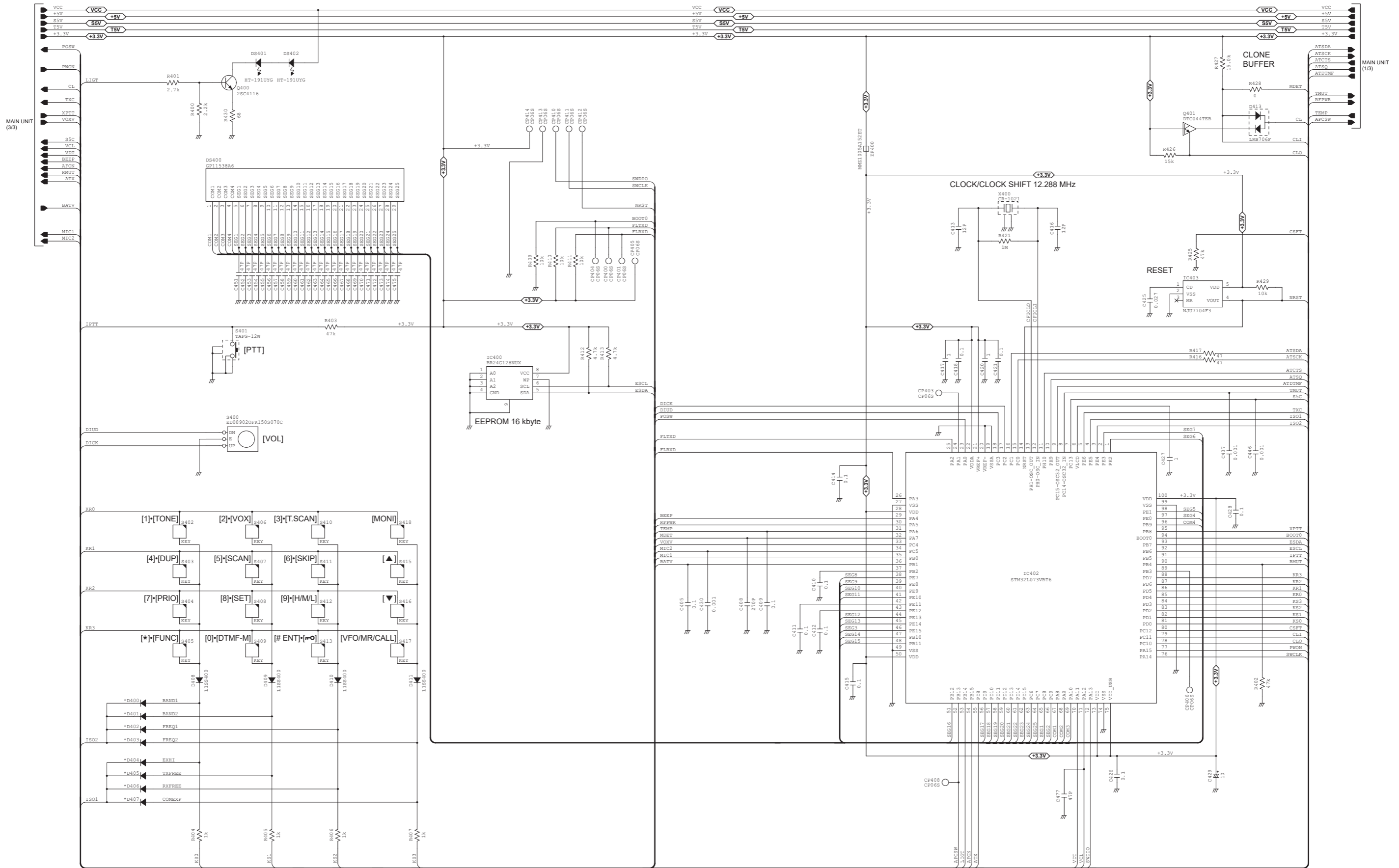
The underlined parts have been updated from the previous version of the addendum, or from the original page.

## • MAIN UNIT (for IC-V86 and IC-V86-T) (1/3)



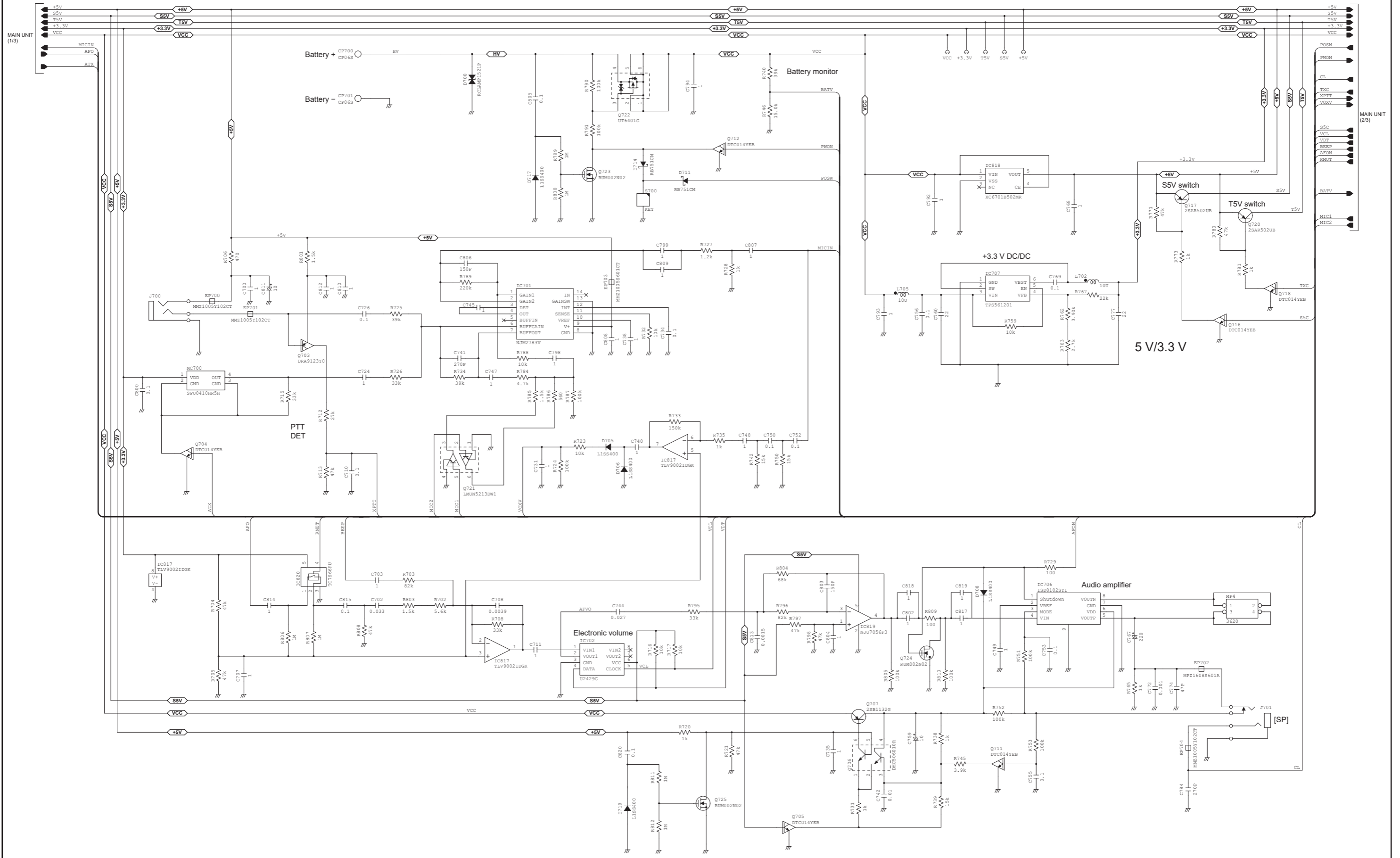
The underlined parts have been updated from the previous version of the addendum, or from the original page.

• MAIN UNIT (for IC-V86 and IC-V86-T) (2/3)



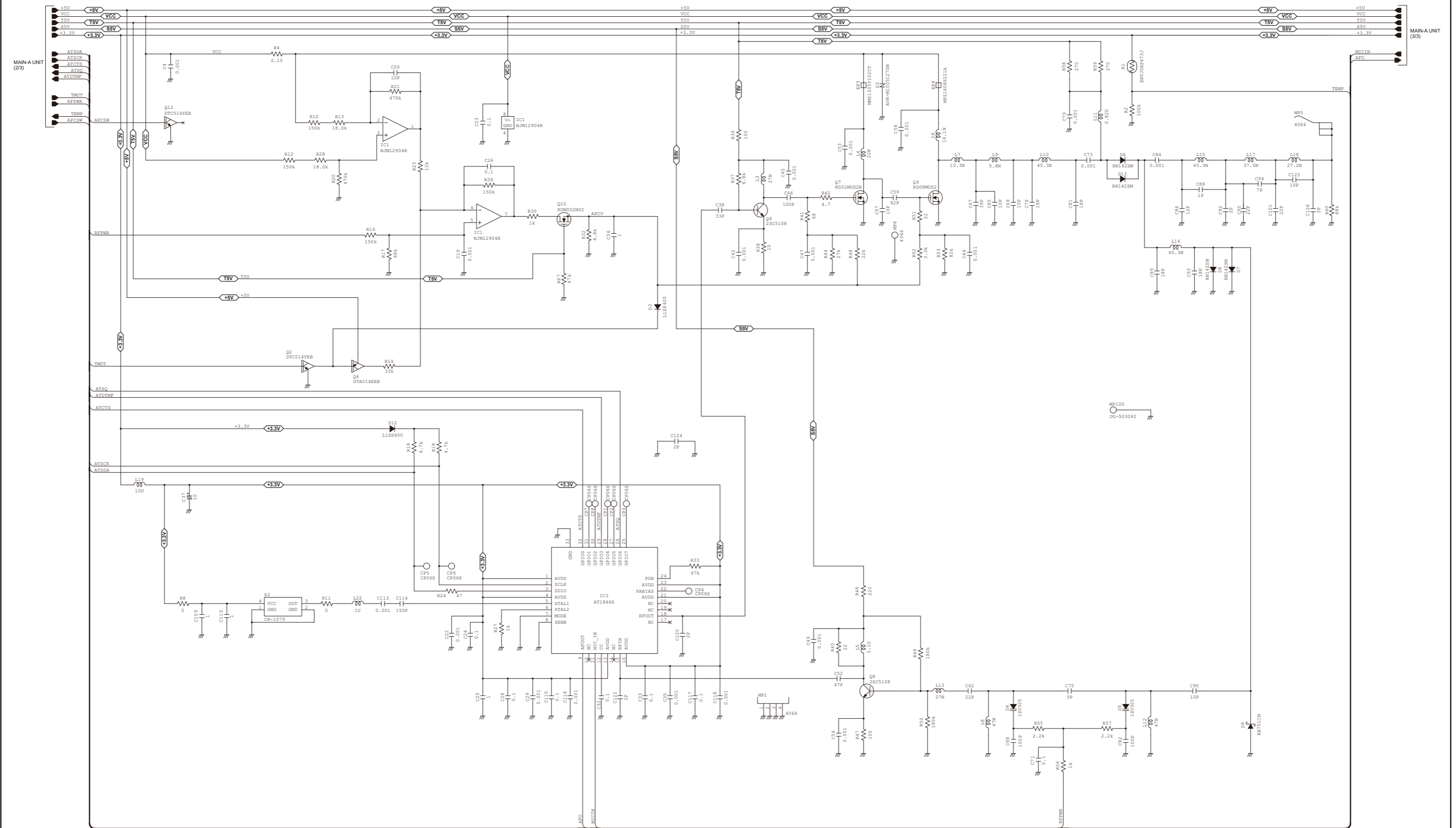
The underlined parts have been updated from the previous version of the addendum, or from the original page.

• MAIN UNIT (for IC-V86 and IC-V86-T) (3/3)

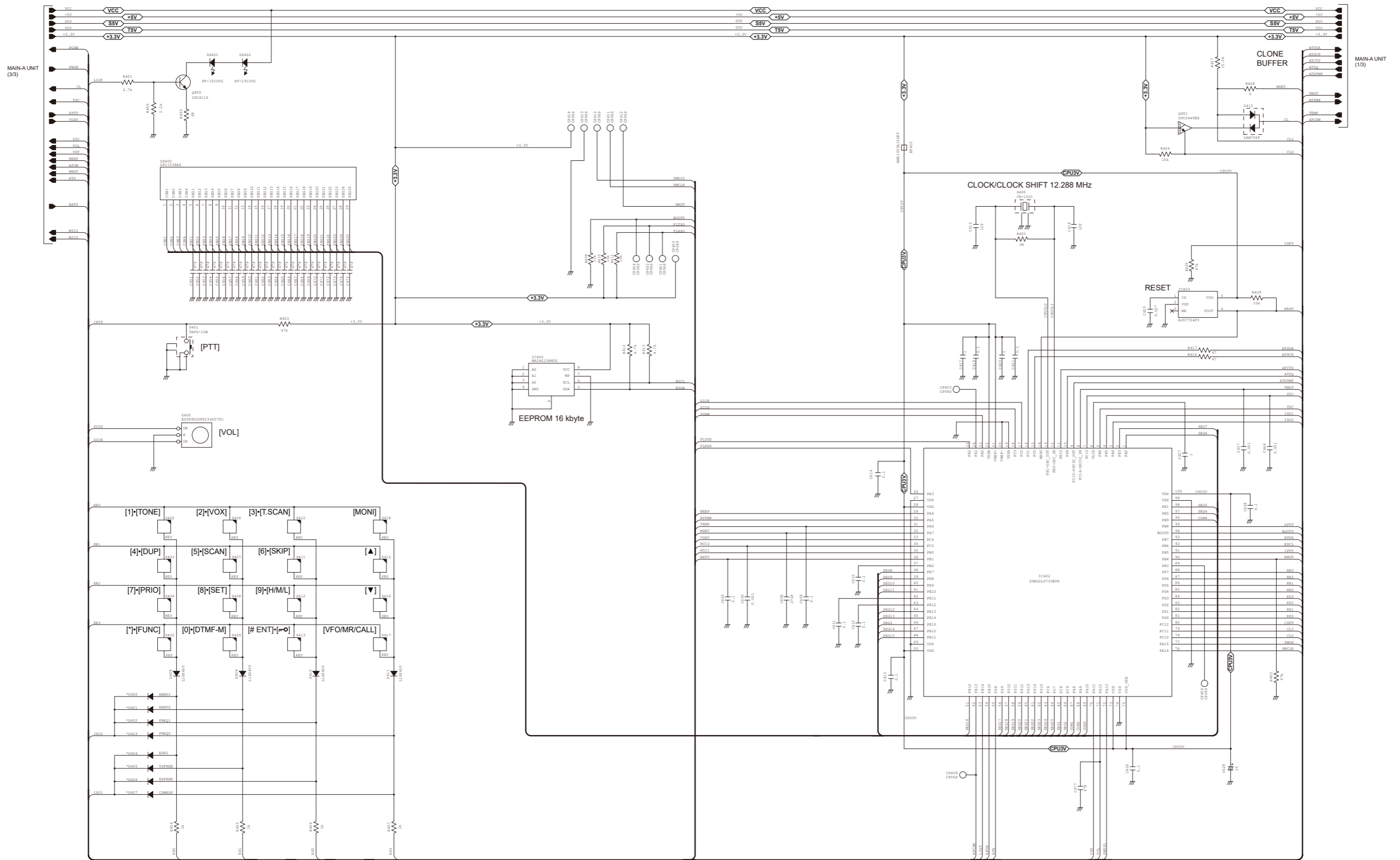


The underlined parts have been updated from the previous version of the addendum, or from the original page.

• MAIN-A UNIT (for IC-G86) (1/3)

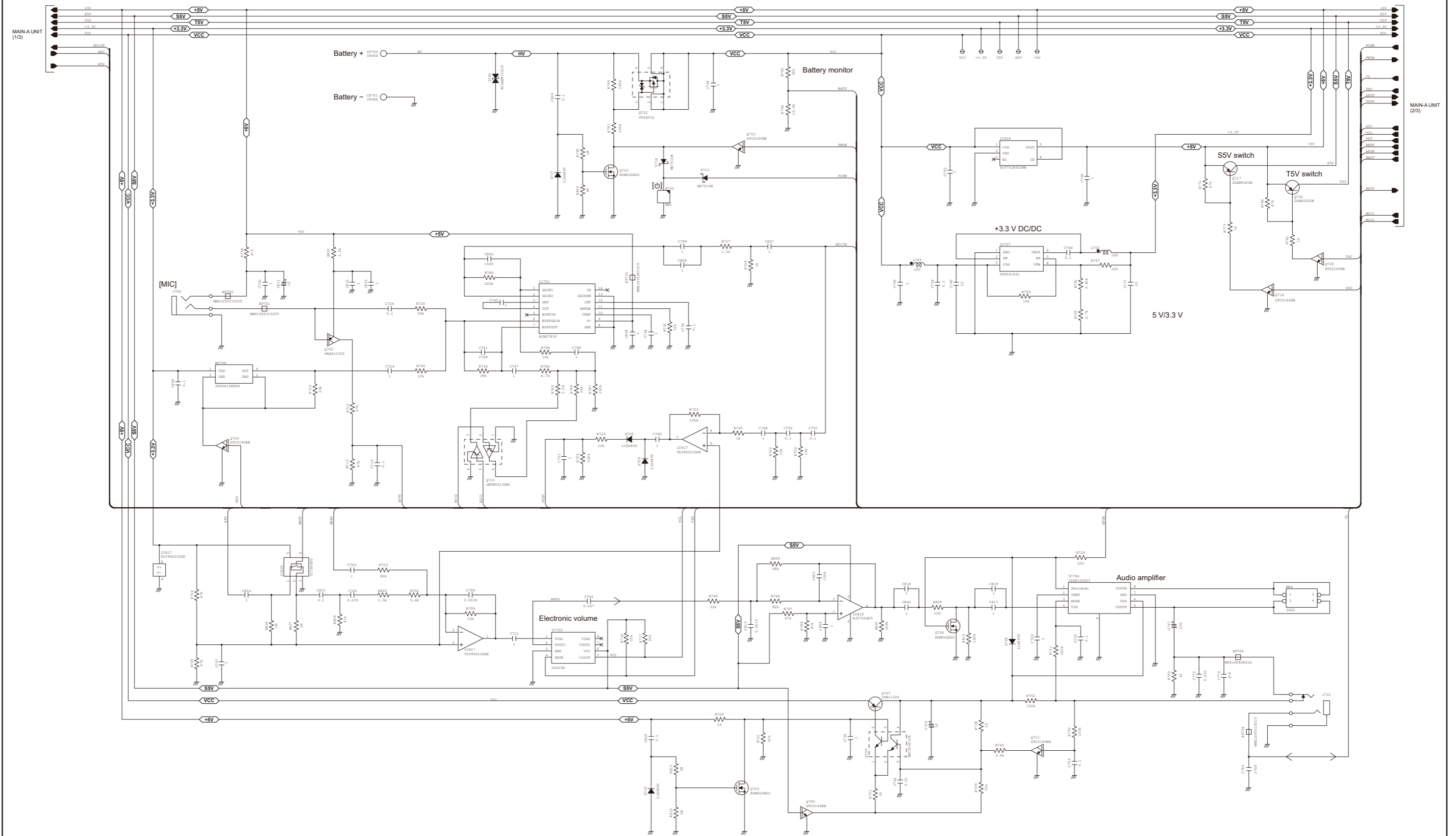


• MAIN-A UNIT (for IC-G86) (2/3)



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

• MAIN-A UNIT (for IC-G86) (3/3)





## IC-V86/IC-V86-T/IC-G86

**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.

### CONTENTS

SPECIFICATIONS .....	1-1a
PARTS LIST .....	5-1a~5-6a
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BOARD LAYOUTS .....	7-1a~7-10a
VOLTAGE DIAGRAM .....	8-1a~8-6a

#### [Version List]

Model	Version	Version Number	Operable Frequency Range (MHz)	Transmit output power	Installed unit		Remarks
					MAIN	MAIN-A	
IC-V86	USA-01	#11	136~174	7.0 W	✓	-	
IC-V86	EXP-01	#12	136~174	7.0 W	✓	-	
IC-V86	EXP-03	#13	136~174	7.0 W	✓	-	
IC-V86-T	THA-01	#31	144~147	5.0 W	✓	-	
IC-G86	EXP-01	#41*	136~174	7.0 W	-	✓	

\*Newly added versions.

# SECTION 1

# SPECIFICATIONS

		IC-V86		IC-V86-T	IC-G86	
		[USA-01]	[EXP-01], [EXP-03]	[THA-01]	[EXP-01]	
GENERAL	Frequency range	RX	136~174 MHz		144~147 MHz	136~174 MHz
		TX	144~148 MHz	136~174 MHz	144~147 MHz	136~174 MHz
	Operating mode	F2D, F3E				
	Number of memory channels	207 channels (200 memory channels, 1 call channel, and 6 scan edge channels)				200 channels
	Scan types	Full*3, Program*3, Priority, Memory (with Skip function), and Tone				
	Selectable tuning setps	5, 10, 12.5, 15, 20, 25, 30, and 50 kHz				
	Usable temperature range	-20°C~+60°C (-4°F~+140°F)				
	Frequency stability	±2.5 ppm (-20°C~+60°C)				
	Power supply	Specified Icom's battery packs and case only 7.5 V DC (negative ground)				
	Current drain (at 7.5 V DC)	RX	Internal speaker	450 mA typical (Maximum audio)		
			External speaker	200 mA typical (Maximum audio)		
		TX	Extra high power	1600 mA typical	-	1600 mA typical
			High power	1400 mA typical		
Middle power			1000 mA typical			
Low power			500 mA typical			
Antenna connector	BNC (50 Ω)					
Dimensions (projections not included)	With BP-298	58.6 (W)×112 (H)×30.5 (D) mm (2.3 (W)×4.4 (H)×1.2 (D) inches)				
	With BP-264	58.6 (W)×112 (H)×26.0 (D) mm (2.3 (W)×4.4 (H)×1.0 (D) inches)				
Weight (approximate)	300 g (10.6 oz, with BP-298 and FA-B57V) 360 g (12.7 oz, with BP-264 and FA-B57V)					
TRANSMITTER	Output power (at 7.5 V DC)	Extra high power	7.0 W	7.0 W*1	-	7.0 W*1
		High power	5.5 W		5.0 W	5.5 W
		Middle power	2.5 W			
		Low power	0.5 W			
	Maximum frequency deviation	Wide	±5.0 kHz			
		Narrow	±2.5 kHz			
Spurious emissions	Less than -60 dB				Less than -60 dB (-80 dB typical)	
Microphone impedance	2200 Ω					
RECEIVER	Receive system	Direct Conversion				
	Sensitivity*2 (at 12 dB SINAD)	0.14 μV typical				
	Squelch sensitivity*2 (threshold)	0.11 μV typical				
	Adjacent channel selectivity	Wide	75 dB typical			
		Narrow	70 dB typical			
	Intermodulation	65 dB typical				
Audio output power	Internal speaker	1.5 W typical (at 5% distortion into the 8 Ω load)				
	External speaker	0.55 W typical (at 5% distortion into an 8 Ω load)				

\*1 Guaranteed 144~160 MHz range only.

\*2 The input signal strength level of this receive sensitivity is measured at the load end (PD).

\*3 For IC-V86 and IC-V86-T only.

SECTION 5

PARTS LIST

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

[MAIN UNIT] (for IC-V86 and IC-V86-T)

Table with columns: REF NO., PART NO., DESCRIPTION, M., H/V LOCATION. Contains multiple rows of component details for the IC-V86 and IC-V86-T units.

[MAIN UNIT] (for IC-V86 and IC-V86-T)

Table with columns: REF NO., PART NO., DESCRIPTION, M., H/V LOCATION. Contains multiple rows of component details for the IC-V86 and IC-V86-T 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=See the BOARD LAYOUTS for details.

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

[MAIN UNIT] (for IC-V86 and IC-V86-T)

Table with columns: REF NO., PART NO., DESCRIPTION, M., H/V LOCATION. Lists components like RMC1/16S-102JTH and RMC1/16S-153JTH.

[MAIN UNIT] (for IC-V86 and IC-V86-T)

Table with columns: REF NO., PART NO., DESCRIPTION, M., H/V LOCATION. Lists components like GRM033B31H102KA12D and GRM033R60J105MEA2D.

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 previous version of the addendum, or from the original page.

**[MAIN UNIT] (for IC-V86 and IC-V86-T)**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
C808	4030022260	S.CER GRM033R60J105MEA2D	T	41.2/46.0
C809	4030022260	S.CER GRM033R60J105MEA2D	T	39.0/36.3
C810	4030022260	S.CER GRM033R60J105MEA2D	B	22.1/47.5
C811	4550007520	S.TAN F931A106MAABMA	B	25.1/43.8
C812	4030022260	S.CER GRM033R60J105MEA2D	B	21.5/47.5
C813	4030023110	S.CER 0402B152K500CT	T	16.9/30.9
C814	4030022260	S.CER GRM033R60J105MEA2D	B	50.9/31.1
C815	4030022160	S.CER GRM033B31A104KE84D	B	33.2/32.9
C817	4030022260	S.CER GRM033R60J105MEA2D	T	19.1/32.4
C818	4030022260	S.CER GRM033R60J105MEA2D	T	19.2/30.9
C819	4030022260	S.CER GRM033R60J105MEA2D	T	18.5/32.4
C820	4030022160	S.CER GRM033B31A104KE84D	B	16.8/44.3
J700	6450000131	CON HSJ1102-018540		
J701	64500002530	CON HSJ4456-010320		
DS400	5030004550	LCD GP11538A6		
DS401	5040003500	S.LED HT-191 UYG-K828	T	52.8/4.6
DS402	5040003500	S.LED HT-191 UYG-K828	T	48.3/4.6
MC700	7700003280	S.MIC SPU0410HR5H-PB-7	T	36.6/6.6
S400	2250001090	ENC ED08902OFK150S070C-2015		
Eqv.	7600000210	ENC TP70N00E20-15F-1903 [#13]		
S401	2260003490	S.SWI TAFG-12W-QR	B	17.4/1.9
EP1	8930101610	LCD SRCN-4066-SP-N-W (SHJ)		
EP3	6910018460	S.BEA MMZ1005Y102C-T	B	33.3/9.5
EP4	6910014690	S.BEA MPZ1608S221A-T	B	24.5/20.0
EP400	6910021240	S.BEA MMZ1005A152ET	B	78.9/38.3
EP700	6910018460	S.BEA MMZ1005Y102C-T	B	24.0/45.6
EP701	6910018460	S.BEA MMZ1005Y102C-T	B	18.7/45.5
EP702	6910019900	S.BEA MPZ1608S601AT	B	26.6/42.1
EP703	6910016330	S.BEA MMZ1005S 601CT-S	B	38.3/42.0
EP704	6910018460	S.BEA MMZ1005Y102C-T	B	37.0/45.7

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

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





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

**[MAIN-A UNIT] (for IC-G86)**

REF NO.	PART NO.	DESCRIPTION	M.	H/V LOCATION
DS401	5040003500	S.LED HT-191 UYG-K828	T	52.8/4.6
DS402	5040003500	S.LED HT-191 UYG-K828	T	48.3/4.6
MC700	7700003280	S.MIC SPU0410HR5H-PB-7	T	36.6/6.6
S400	2250001090	ENC ED08902OFK150S070C-2015		
S401	2260003490	S.SWI TAFG-12W-QR	B	17.4/1.9
EP1	8930101610	LCD SRCN-4066-SP-N-W (SHJ)		
EP3	6910018460	S.BEA MMZ1005Y102C-T	B	33.3/9.5
EP4	6910014690	S.BEA MPZ1608S221A-T	B	24.5/20.0
EP400	6910021240	S.BEA MMZ1005A152ET	B	78.9/38.3
EP700	6910018460	S.BEA MMZ1005Y102C-T	B	24.0/45.6
EP701	6910018460	S.BEA MMZ1005Y102C-T	B	18.7/45.5
EP702	6910019900	S.BEA MPZ1608S601AT	B	26.6/42.1
EP703	6910016330	S.BEA MMZ1005S 601CT-S	B	38.3/42.0
EP704	6910018460	S.BEA MMZ1005Y102C-T	B	37.0/45.7

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

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



# SECTION 6 MECHANICAL PARTS

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

### [CHASSIS UNIT]

REF NO.	PART NO.	DESCRIPTION	QTY.
J1	6510032950	BNC-R4066	1
MP1	8010021713	3285 CHASSIS-3	1
MP2	8930079900	3285 TERMINAL HOLDER	1
MP5	8930080400	3285 MINUS TERMINAL	1
MP9	8830003390	VR NUT (AB)	1
MP10	8610014170	KNOB N-391	1
MP11	8930080280	3254 TOP SEAL	1
MP12	8810009511	PHBT M2 × 4 NI-ZC3 (3.6-4.0)	9
MP13	8810009511	PHBT M2 × 4 NI-ZC3 (3.6-4.0)	1
MP15	8810008761	PHBT M2 × 8 NI-ZC3	2
MP16	8210034560	4066 FRONT PANEL ASSEMBLY	[#11] 1
	8210034560	4066 FRONT PANEL ASSEMBLY	[#12] 1
	8210034560	4066 FRONT PANEL ASSEMBLY	[#13] 1
	8210034550	4066 FRONT PANEL ASSEMBLY (A)	[#31] 1
	<u>8210034520</u>	<u>4066 FRONT PANEL (B) ASSEMBLY</u>	<u>[#41] 1</u>
MP21	8930101250	4066 SIDE SEAL (KOB)	1
MP22	8930101260	4066 SIDE PLATE	1
MP24	8930101210	THERMAL SHEET DT TC-200CAT-20 (8X12)	1
MP26	8830004670	STEP NUT (Q)	1
MP28	8850003421	SEALING WASHER (AA)-1 (TOT)	1
MP30	8930100760	3620 MIC RUBBER (KOB)	1
MP33	8930080100	3285 PLUS TERMINAL	1

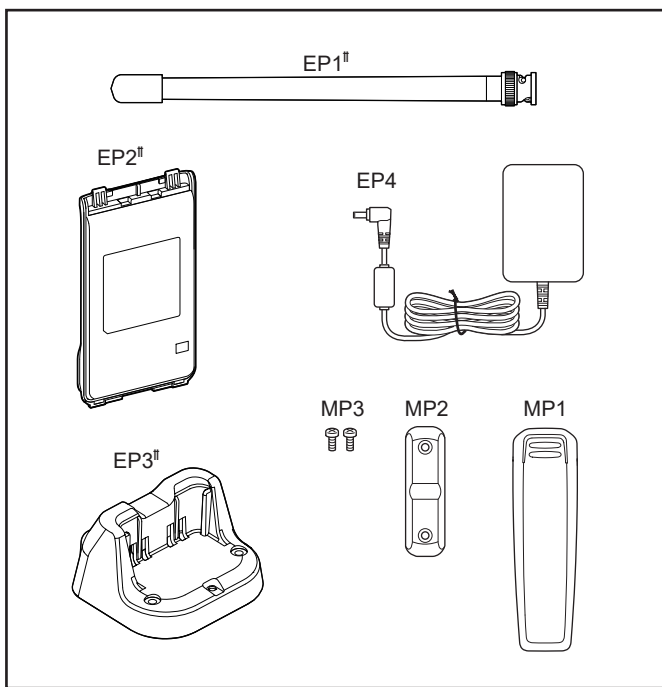
### [SUPPLIED ACCESSORIES]

REF NO.	PARTS NO.	DESCRIPTION	QTY.
EP1	-	FA-B57V†	[#11] 1
	-	FA-B45V†	[#12] 1
	-	FA-B57V†	[#13] 1
	-	FA-B45V†	[#31] 1
	-	FA-B57V†	[#41] 1
EP2	-	BP-298†	[#11] 1
	-	BP-298†	[#12] 1
	-	BP-264†	[#13] 1
	-	BP-298†	[#31] 1
	-	BP-298†	[#41] 1
EP3	-	BC-240†	[#11] 1
	-	BC-240†	[#12] 1
	-	BC-192†	[#13] 1
	-	BC-240†	[#31] 1
	-	BC-240†	[#41] 1
EP4	-	BC-242†	1
MP1	-	MB-124†	1
MP2	8210025841	3285 JACK PANEL-1	[#11] 1
	8210025841	3285 JACK PANEL-1	[#12] 1
	8210025841	3285 JACK PANEL-1	[#13] 1
	8210025841	3285 JACK PANEL-1	[#31] 1
	<u>8210026621</u>	<u>3285 JACK PANEL (B)-1 G</u>	<u>[#41] 1</u>
MP3	8810004861	PH M2 × 6 ZK3	2

† Sold as an option.

### [MAIN UNIT] (for IC-V86 and IC-V86-T)

REF NO.	PART NO.	DESCRIPTION	QTY.
DS400	5030004550	GP11538A6	1
MC700*	7700003280	SPU0410HR5H-PB-7	1
S400	2250001090	ED08902OFK150S070C-2015	1
S401*	2260003490	TAFG-12W-QR	1
EP1	8930101610	SRCN-4066-SP-N-W (SHJ)	1
MP1*	8510022740	4066 VCO CASE	1
MP4*	8930101082	3620 SP SPRING-2	1
MP5*	8930100370	4066 ANT SPRING	1
MP6*	8410003170	4066 PA HEATSINK	1
MP7	8210034210	4066 REFLECTOR	1
MP8	8930101200	4066 LCD HOLDER	1
MP9	8930080260	3254 WHITE SHEET	1



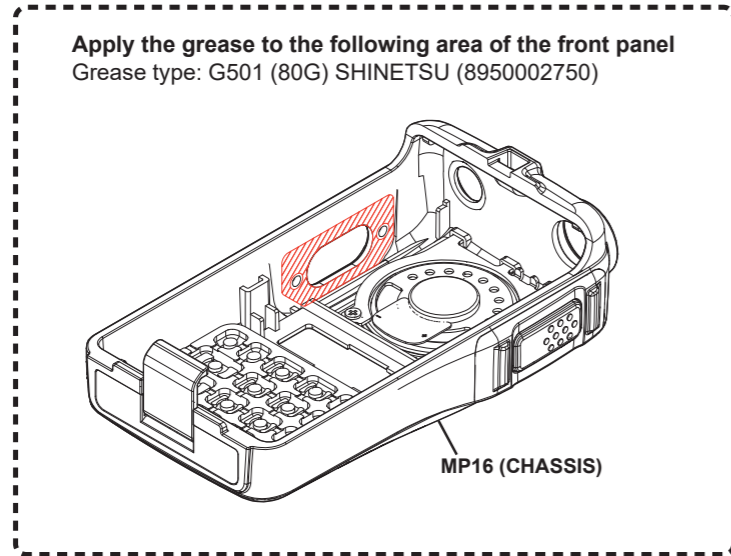
‡ The shape will differ depending on the transceiver version.

### [MAIN-A UNIT] (for IC-G86)

REF NO.	PART NO.	DESCRIPTION	QTY.
DS400	5030004550	GP11538A6	1
MC700*	7700003280	SPU0410HR5H-PB-7	1
S400	2250001090	ED08902OFK150S070C-2015	1
S401*	2260003490	TAFG-12W-QR	1
EP1	8930101610	SRCN-4066-SP-N-W (SHJ)	1
MP1*	8510022740	4066 VCO CASE	1
MP4*	8930101082	3620 SP SPRING-2	1
MP5*	8930100370	4066 ANT SPRING	1
MP6*	8410003170	4066 PA HEATSINK	1
MP7	8210034210	4066 REFLECTOR	1
MP8	8930101200	4066 LCD HOLDER	1
MP9	8930080260	3254 WHITE SHEET	1
MP100*	6910014760	OG-503040	1

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

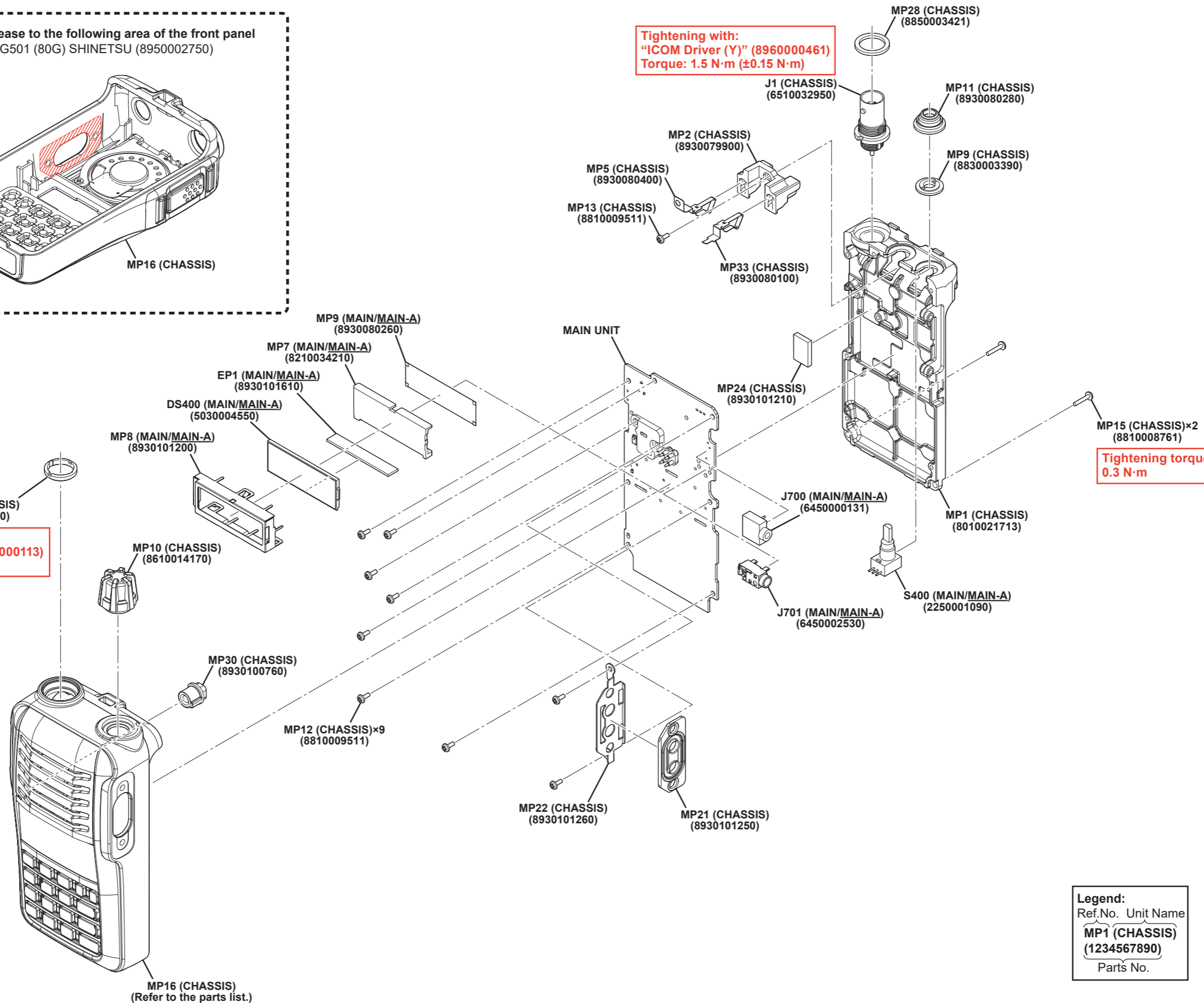
**Screw abbreviations** A, B0, BT: Self-tapping PH: Pan head BS: Brass NI: Nickel ZU: Zinc SUS: Stainless



Tightening with:  
"ICOM Driver (Y)" (896000461)  
Torque: 1.5 N·m (±0.15 N·m)

Tightening with:  
"ICOM Driver (K)" (896000113)  
Torque: 0.8 N·m

Tightening torque:  
0.3 N·m



Legend:

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

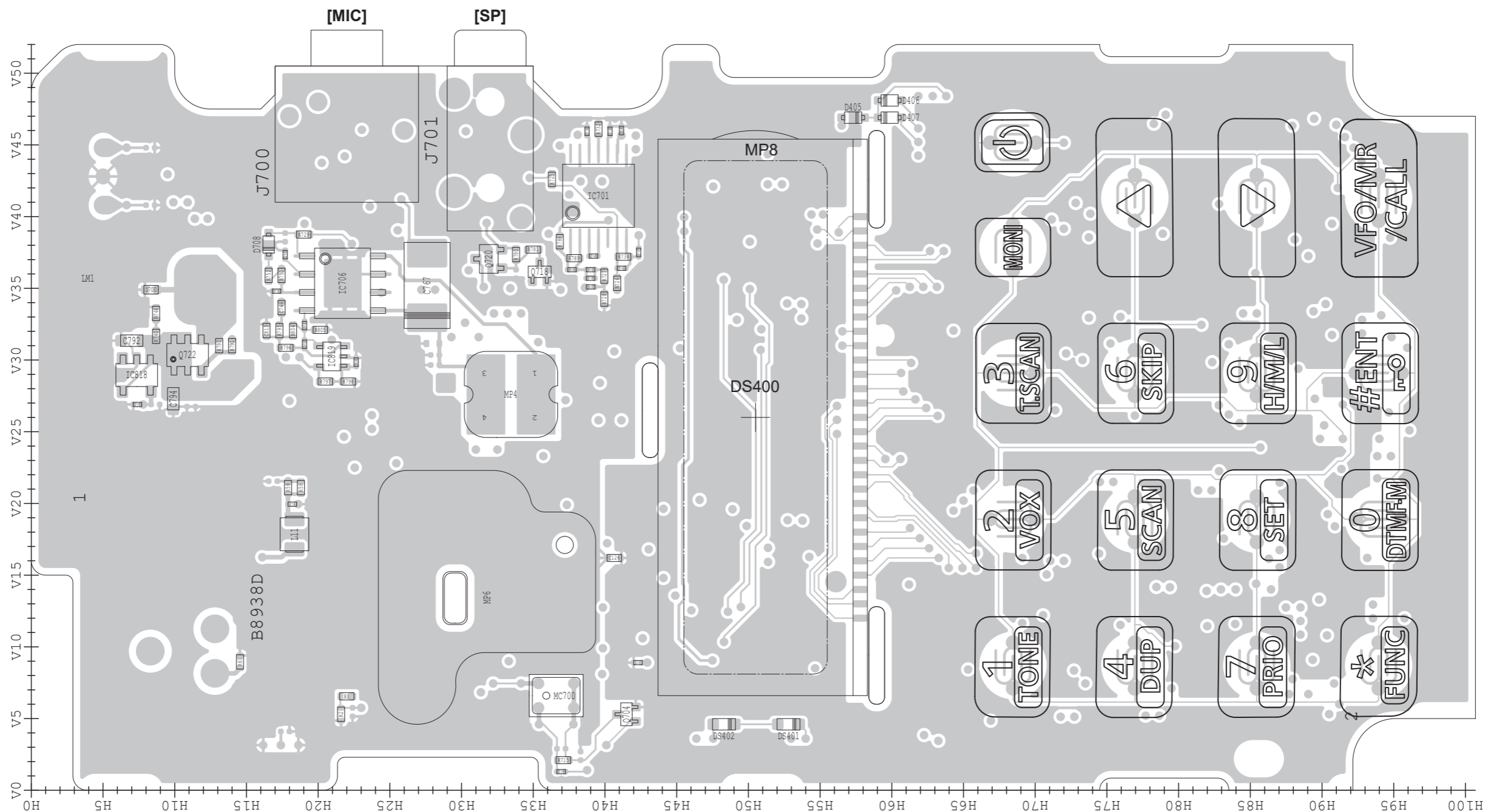
# SECTION 7 BOARD LAYOUTS

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

• MAIN UNIT (for IC-V86 and IC-V86-T/B-8938D: TOP VIEW)

The serial numbers of transceivers that use the PCB (B-8938D).

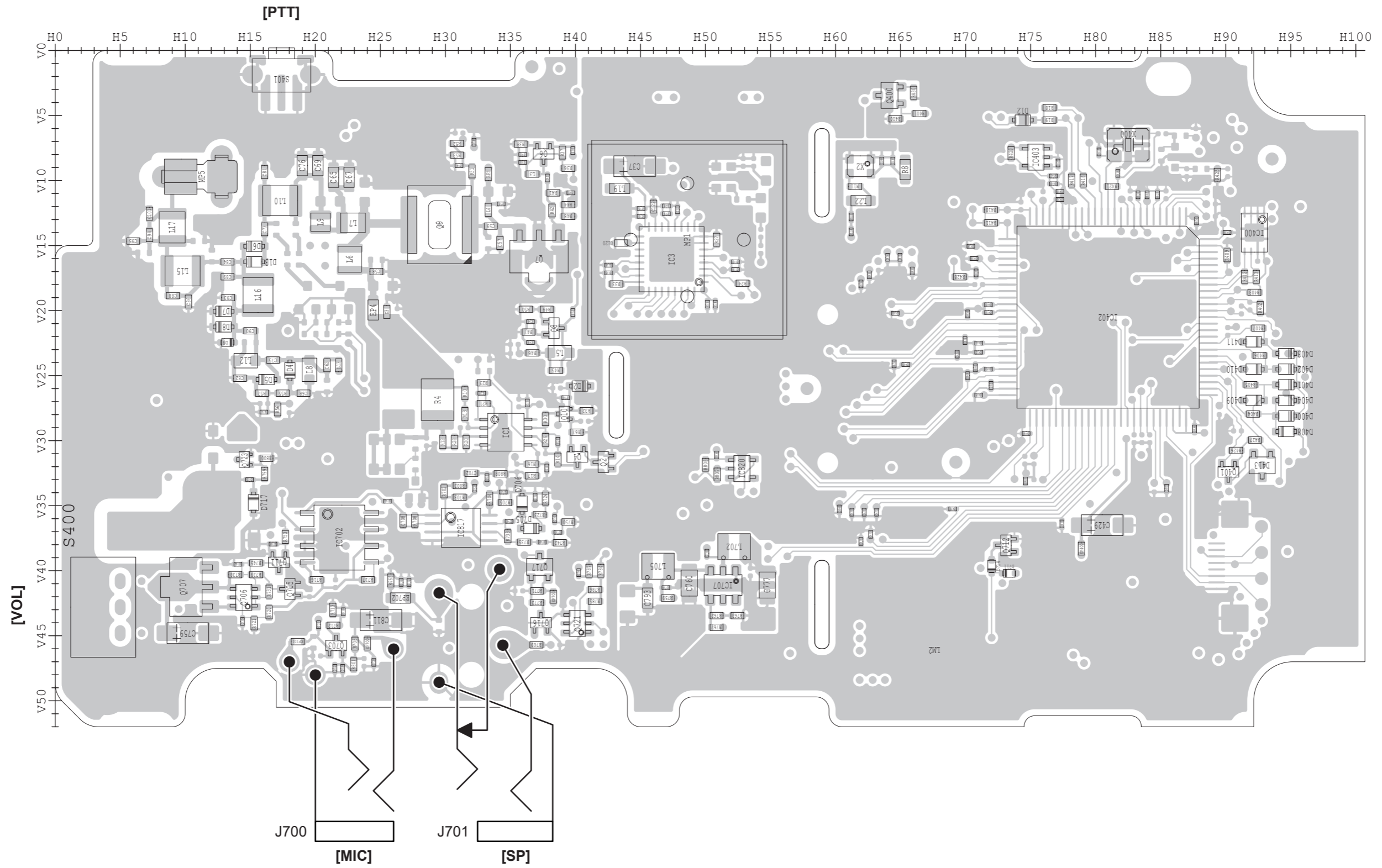
Model Name	Version Number	Serial Numbers
IC-V86	#11	11001501 ~ 11005000
IC-V86	#12	12001301 ~ 12002300
IC-V86	#13	13001301 ~ 13002300
IC-V86-T	#31	31001201 ~ 31001700



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

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

• MAIN UNIT (for IC-V86 and IC-V86-T/B-8938D: BOTTOM VIEW)



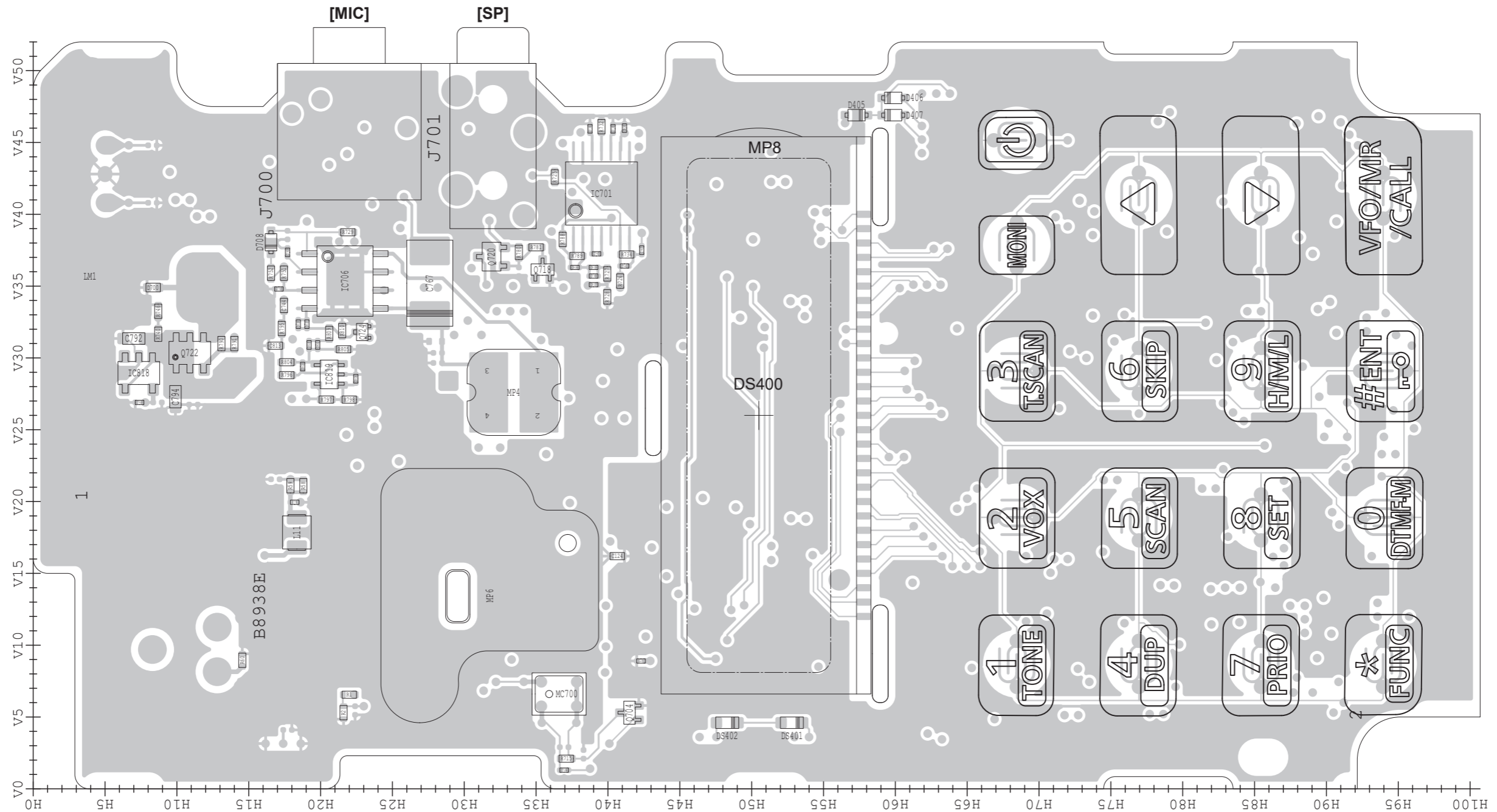
See the PARTS LIST H/V location on the PARTS LIST for location details.

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

• MAIN UNIT (for IC-V86 and IC-V86-T/B-8938E: TOP VIEW)

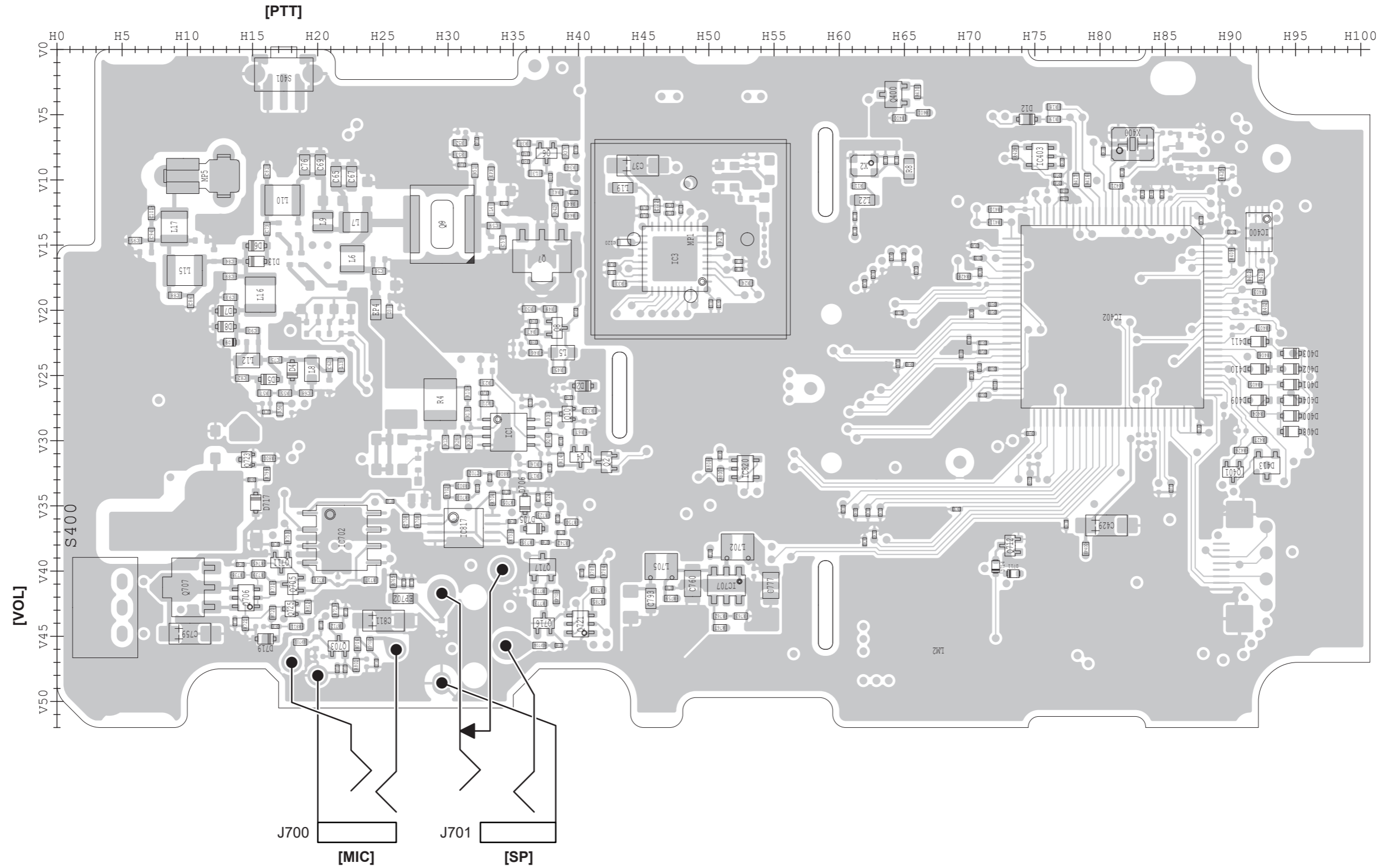
The serial numbers of transceivers that use the PCB (B-8938E).

Model Name	Version Number	Serial Numbers
IC-V86	#11	11005001 ~ 11008200
IC-V86	#12	Not used
IC-V86	#13	13002301 ~ 13003000
IC-V86-T	#31	31001701 ~ 31001800



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

• MAIN UNIT (for IC-V86 and IC-V86-T/B-8938E: BOTTOM VIEW)

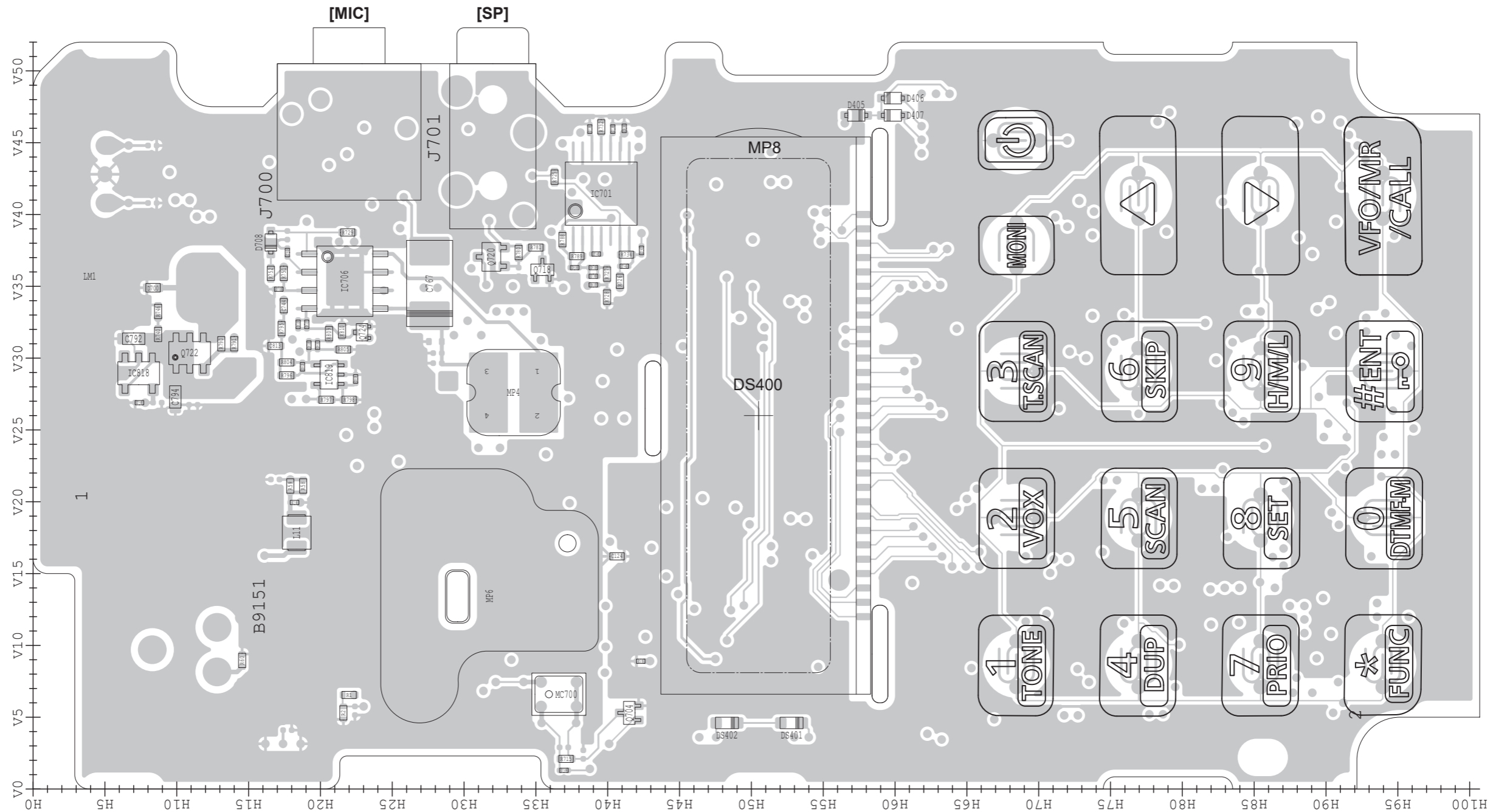


The underlined parts have been updated from the previous version of the addendum, or from the original page.

• MAIN UNIT (for IC-V86 and IC-V86-T/B-9151: TOP VIEW)

The serial numbers of transceivers that use the PCB (B-9151).

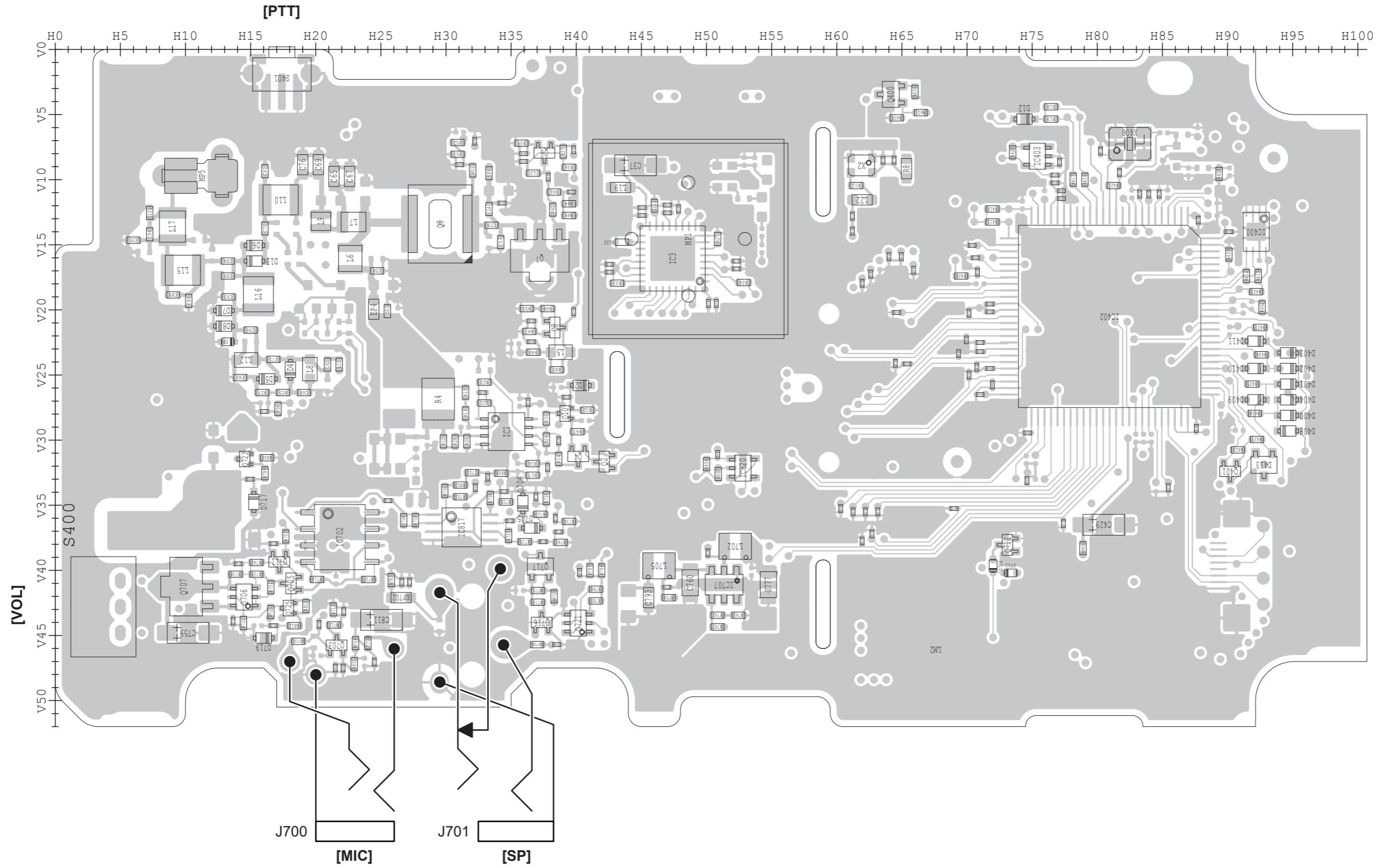
Model Name	Version Number	Serial Numbers
IC-V86	#11	11008201 ~ 11014000
IC-V86	#12	12002301 ~ 12002400
IC-V86	#13	Not used
IC-V86-T	#31	31001801 ~ 31002000



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

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

• MAIN UNIT (for IC-V86 and IC-V86-T/B-9151: BOTTOM VIEW)



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

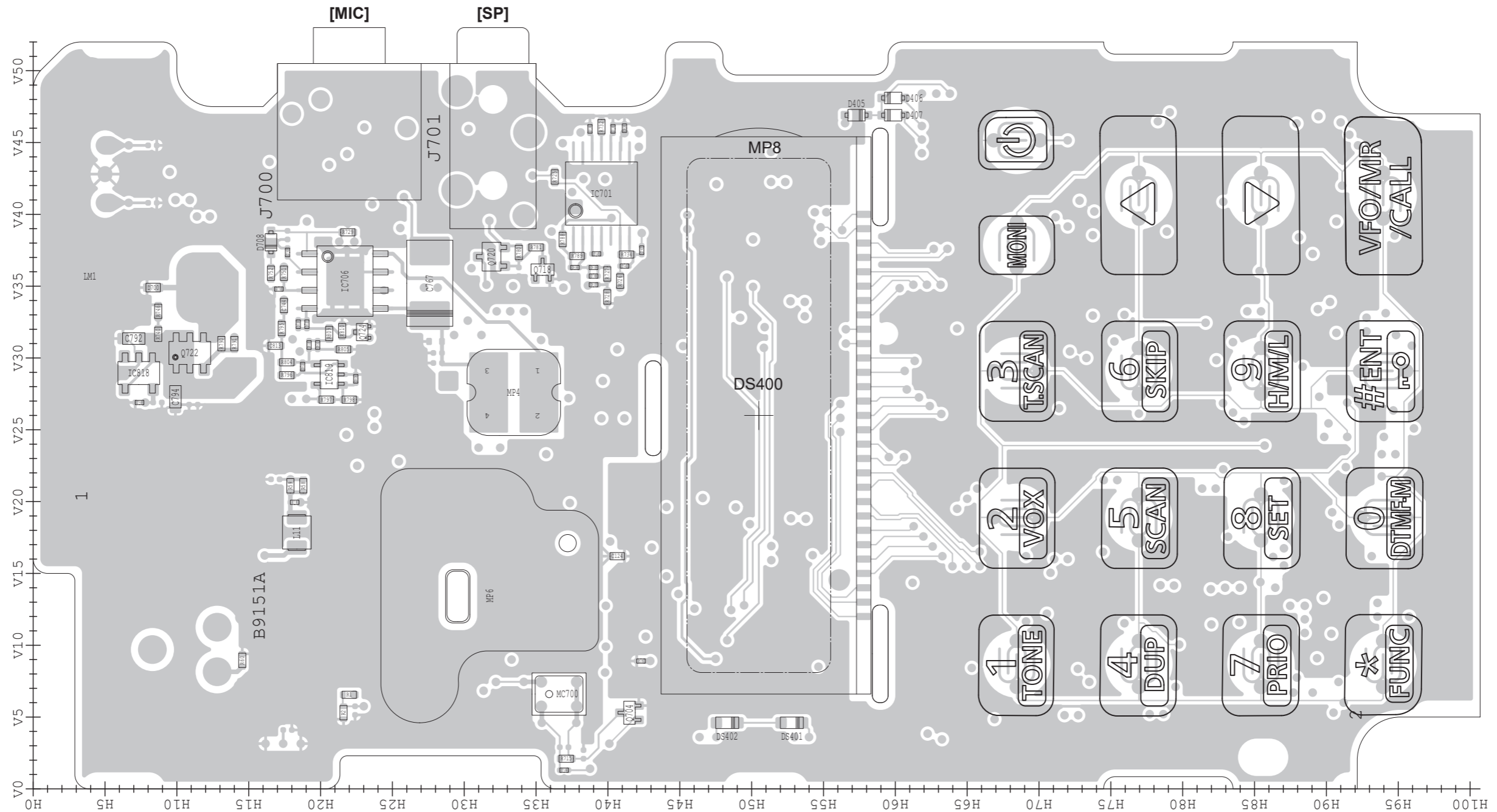


The underlined parts have been updated from the previous version of the addendum, or from the original page.

• MAIN UNIT (for IC-V86 and IC-V86-T/B-9151A: TOP VIEW)

The serial numbers of transceivers that use the PCB (B-9151A).

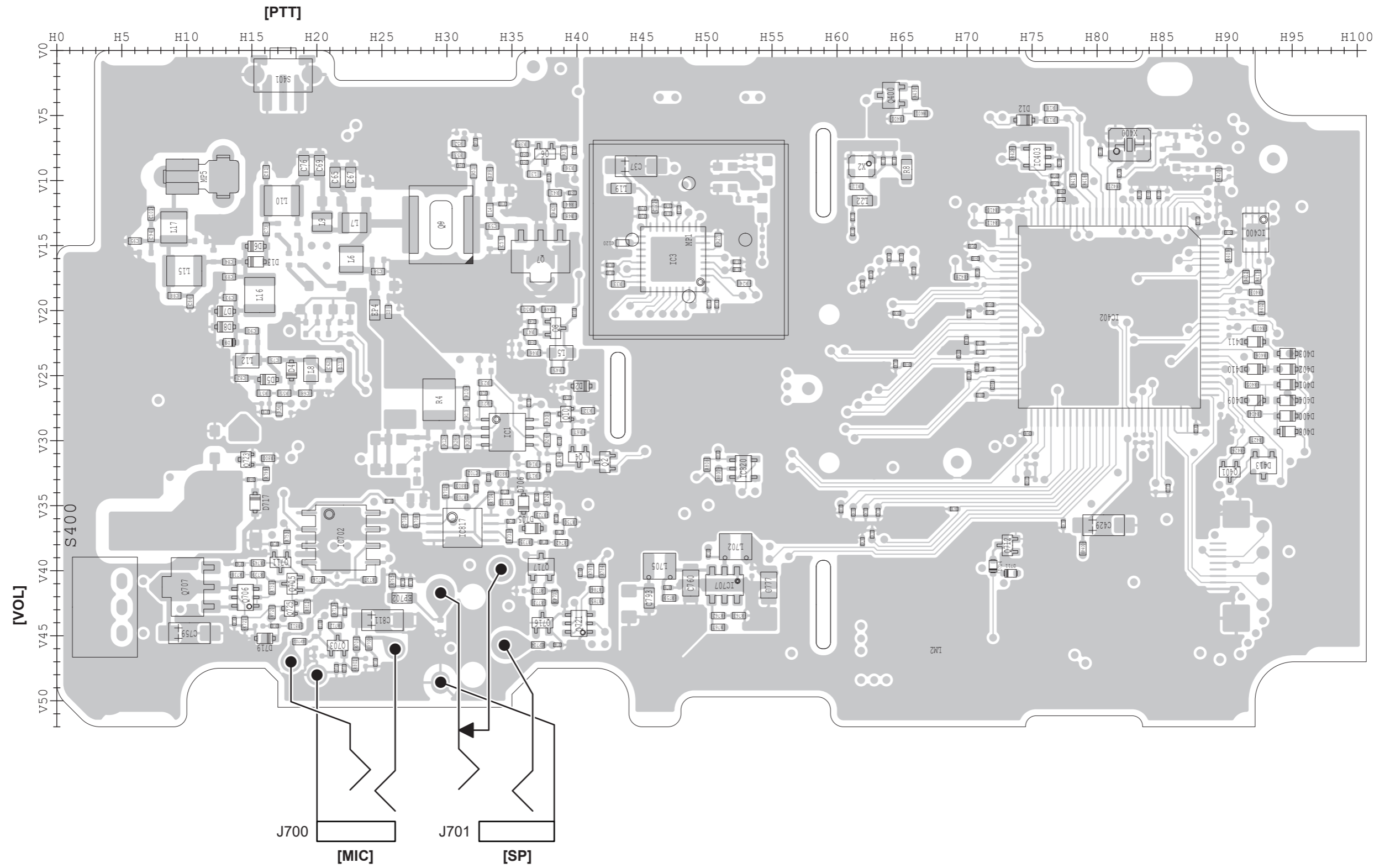
Model Name	Version Number	Serial Numbers
IC-V86	#11	11014001 and above
IC-V86	#12	12002401 and above
IC-V86	#13	13003001 and above
IC-V86-T	#31	31002001 and above



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

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

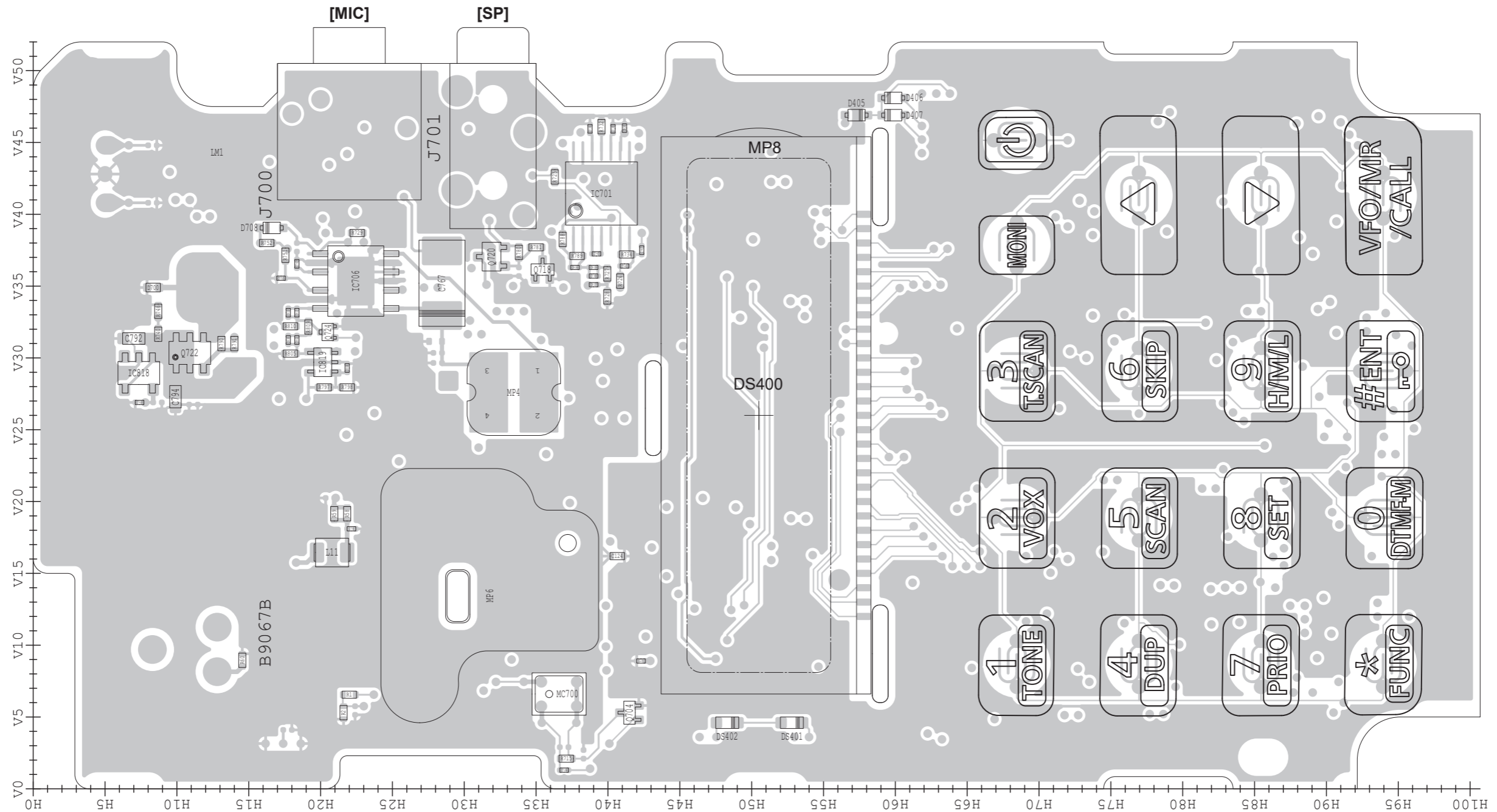
• MAIN UNIT (for IC-V86 and IC-V86-T/B-9151A): BOTTOM VIEW



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

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

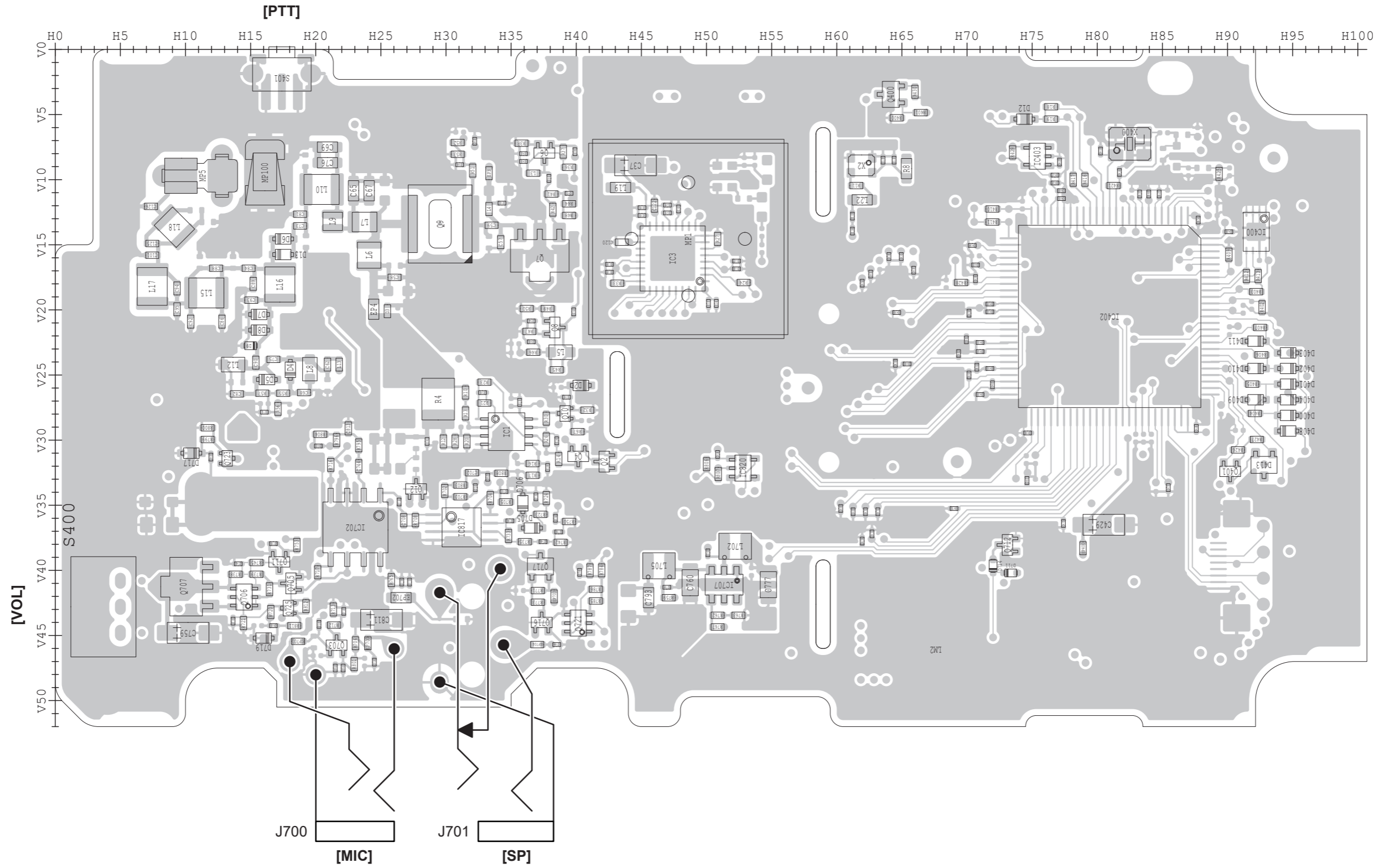
• **MAIN-A UNIT (for IC-G86/B-9067B: TOP VIEW)**



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

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

• MAIN-A UNIT (for IC-G86/B-9067B: BOTTOM VIEW)

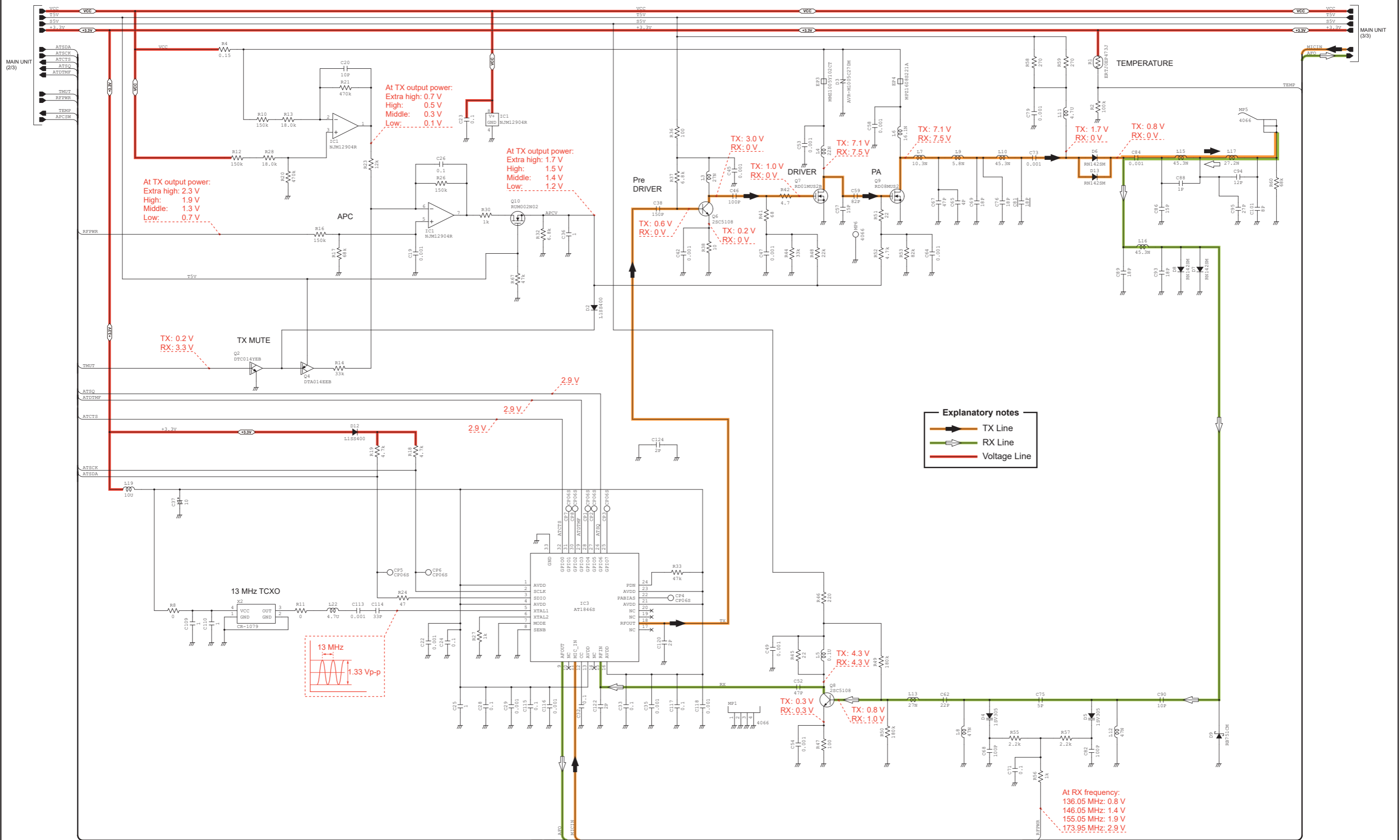


See the PARTS LIST H/V location on the PARTS LIST for location details.

# SECTION 8 VOLTAGE DIAGRAM

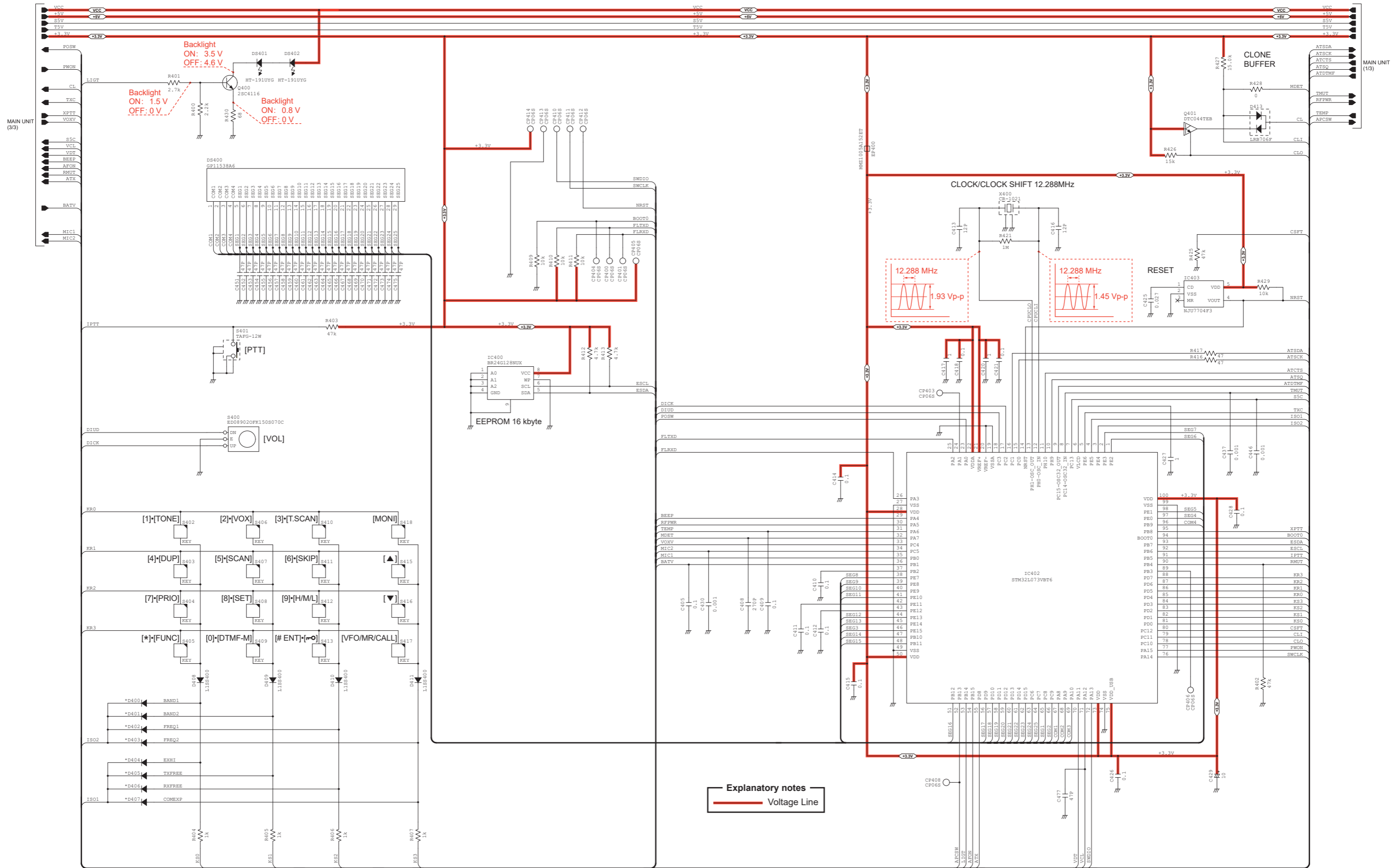
The underlined parts have been updated from the previous version of the addendum, or from the original page.

## • MAIN UNIT (for IC-V86 and IC-V86-T) (1/3)



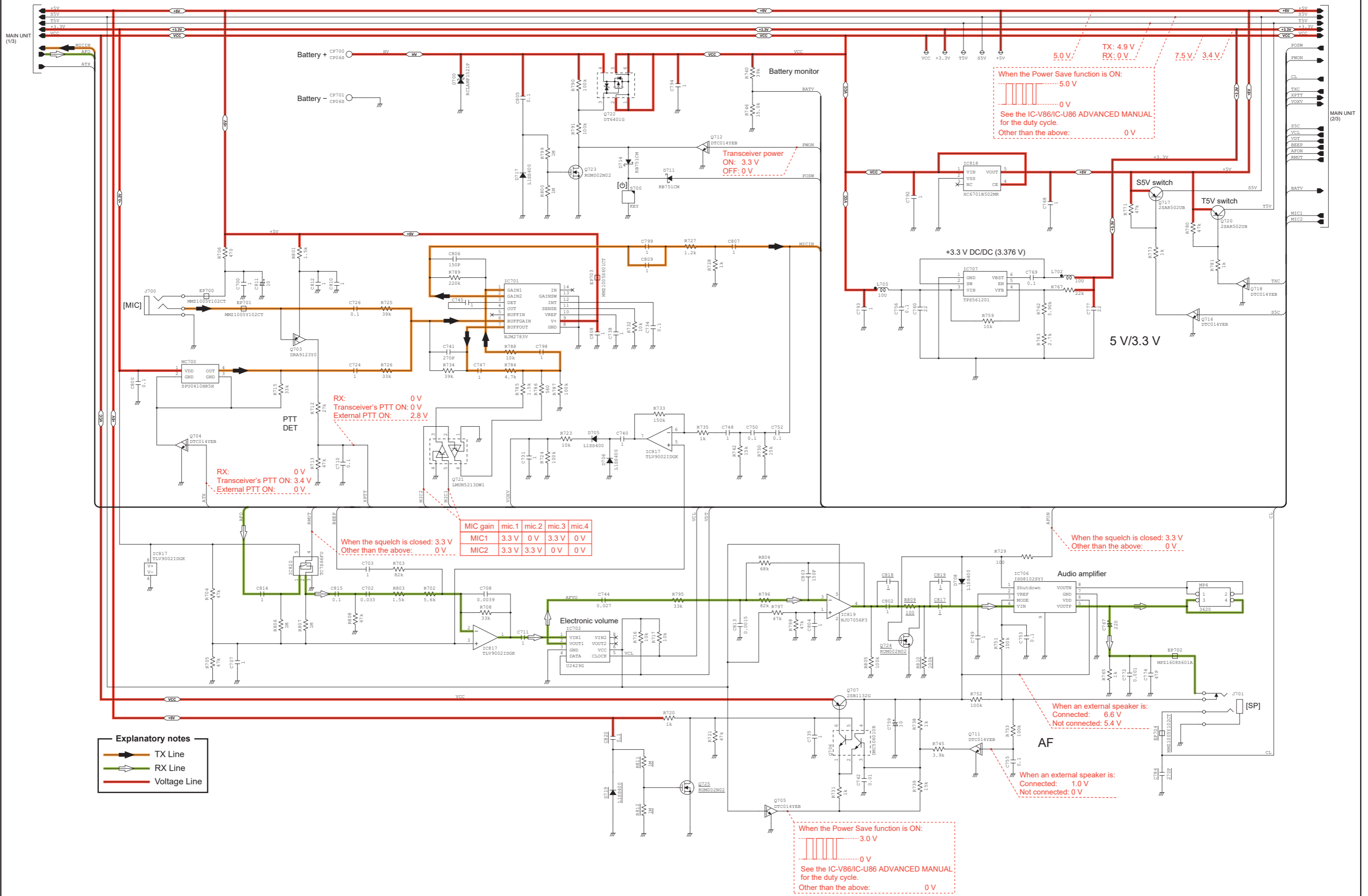
The underlined parts have been updated from the previous version of the addendum, or from the original page.

• MAIN UNIT (for IC-V86 and IC-V86-T) (2/3)



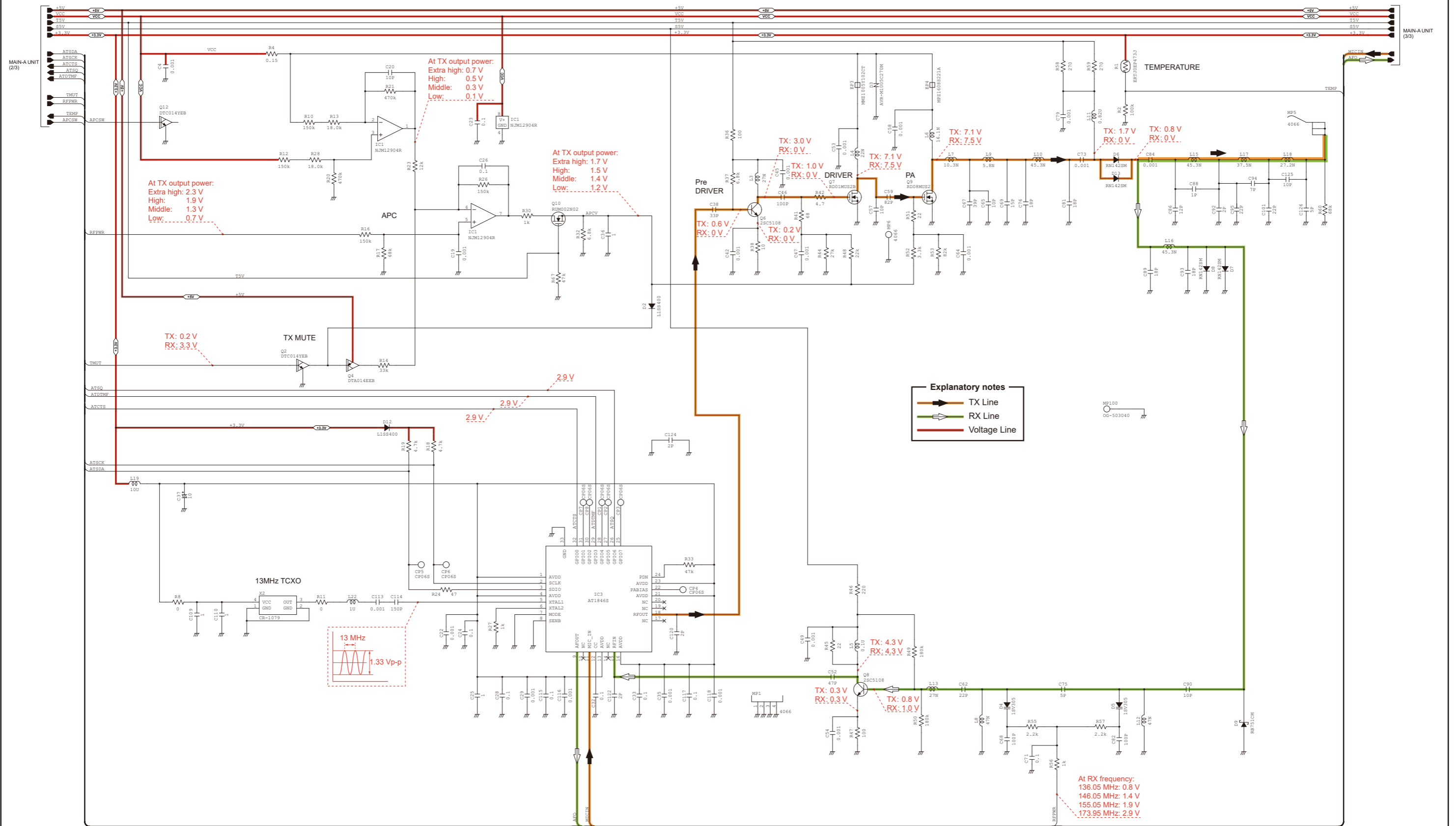
The underlined parts have been updated from the previous version of the addendum, or from the original page.

• MAIN UNIT (for IC-V86 and IC-V86-T) (3/3)



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

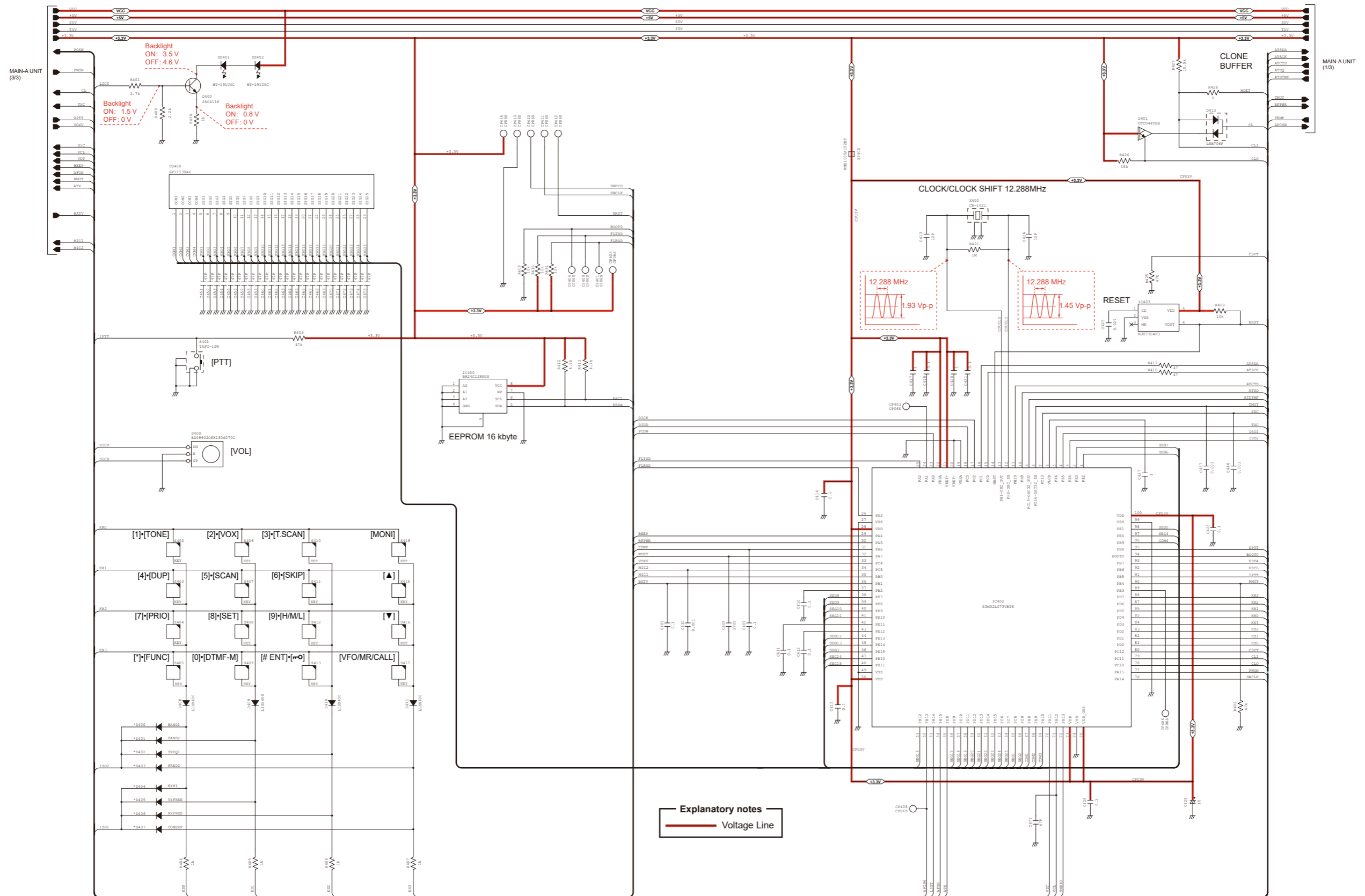
• MAIN-A UNIT (for IC-G86) (1/3)





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

• MAIN-A UNIT (for IC-G86) (2/3)



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

• MAIN-A UNIT (for IC-G86) (3/3)

