



SERVICE MANUAL

UHF FM REPEATER

IC-FR6000
IC-FR6100

S-14419XZ-C1
Feb. 2008

Icom Inc.

INTRODUCTION

This service manual describes the latest service information for the **IC-FR6000** UHF DIGITAL REPEATER at the time of publication.

MODEL	VERSION	FREQUENCY RANGE	CH. SPACING	TX POWER
IC-FR6000	USA-01	400–470 MHz	6.25/12.5/25.0 kHz	50 W
	USA-02	450–520 MHz		
	EXP-01	400–470 MHz	12.5/25.0 kHz	
	EXP-02	450–520 MHz		
IC-FR6100	EUR-01	400–470 MHz	12.5/20.0/25.0 kHz	25 W

UNIT ABBREVIATIONS:

F=FRONT UNIT
M=MAIN UNIT
CN=CONNECT UNIT

CAUTION

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

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

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

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

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



ORDERING PARTS

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

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

<ORDER EXAMPLE>

1110003491	S.IC	TA31136FNG	IC-FR6000	MAIN UNIT	5 pieces
8820001210	Screw	2438 screw	IC-FR6000	Top cover	10 pieces

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

REPAIR NOTES

1. Make sure the problem is internal before disassembling the repeater.
2. **DO NOT** open the repeater until the repeater 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 repeater is defective.
6. **DO NOT** transmit power into a Standard Signal Generator or a Sweep Generator.
7. **ALWAYS** connect a 50 dB to 60 dB attenuator between the repeater and a Deviation Meter or Spectrum Analyzer when using such test equipment.
8. **READ** the instructions of test equipment thoroughly before connecting a test equipment to the repeater.

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SECTION 1

SPECIFICATIONS

■ GENERAL	[FR6000]	[FR6100]
• Frequency coverage	400–470 MHz [USA-01], [EXP-01] 450–520 MHz [USA-02], [EXP-02]	400–470 MHz
• Conventional channels	max. 32 ch	
• Type of emission	Wide 16K0F3E/11K0F3E/11K0F7E/1K0F7D/ 11K0F7W	Wide 16K0F3E
	–	Middle 14K0F3E
	Narrow 8K50F3E/8K10F1E/8K10F1D	Narrow 8K50F3E
	Digital 4K00F1E/4K00F1D/4K00F3E/6K00F3E	
• Antenna impedance	50 Ω (Nominal)	
• Operating temperature range	–22°F to +140°F (–30°C to +60°C)	–25°C to +55°C
• Power supply requirement (nominal)	13.6 V DC (Negative ground)	13.2 V DC (Negative ground)
• Current drain (Approx.)	Receiving 500 mA (stand-by), 1900 mA (max. audio)	
	Transmitting 15 A (at 50 W)	Transmitting 7.0 A (at 25 W)
• Dimensions (Projections not included)	19 1/32 (W)×3 15/32 (H)×10 1/4 (D) in.	483 (W)×88 (H)×260 (D) mm
• Weight (Approx.)	12 lb 9/16 oz.	5.6 kg

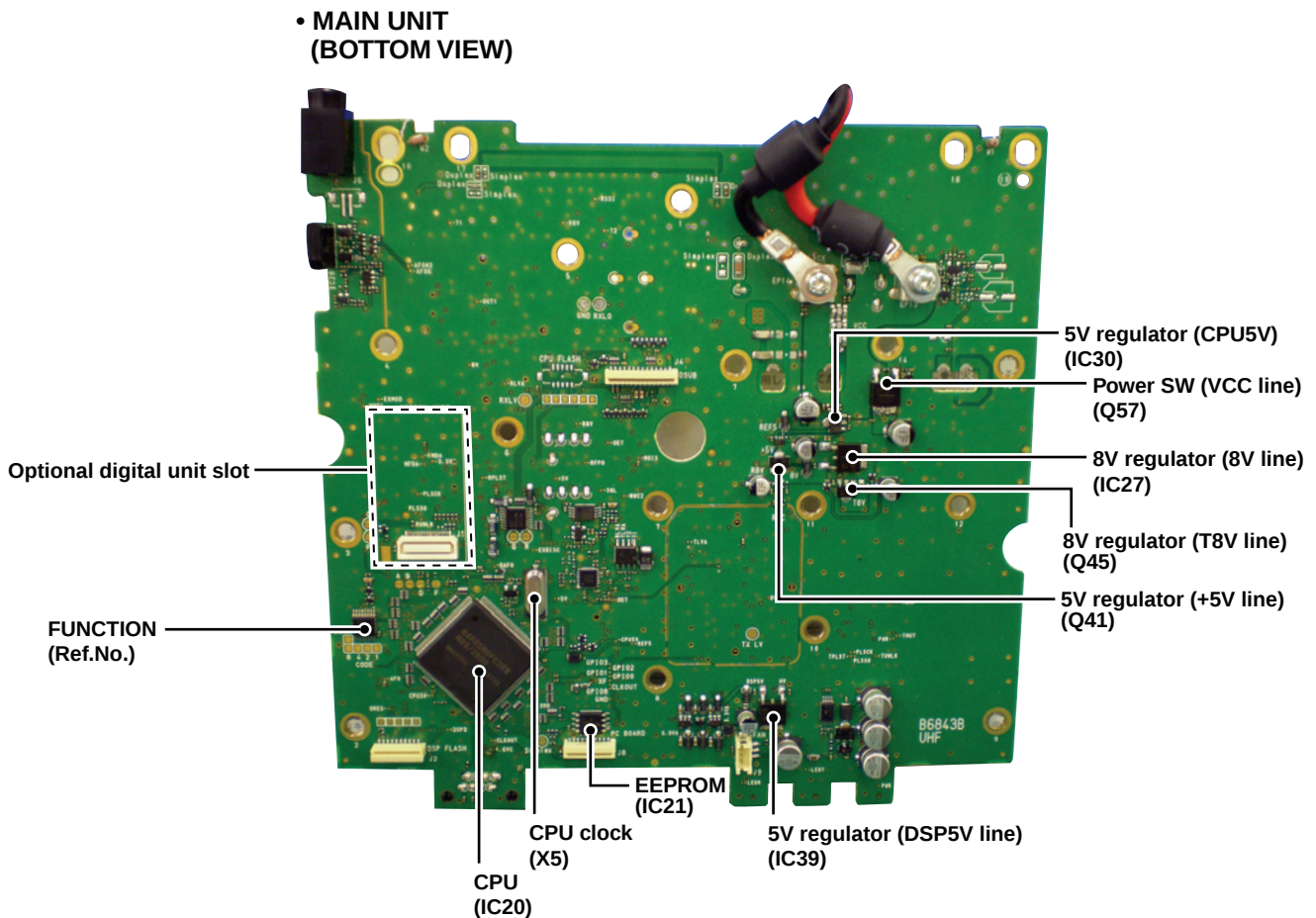
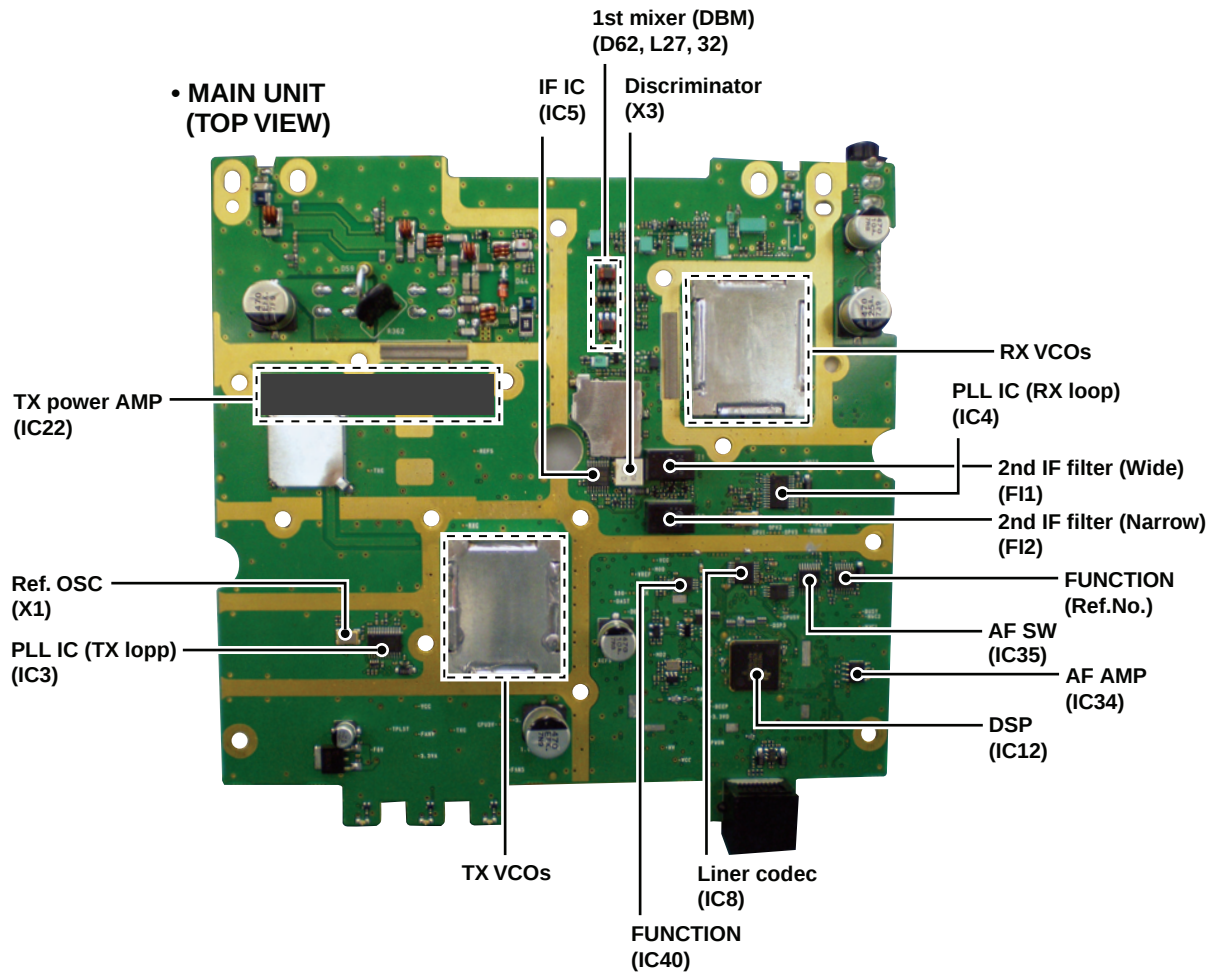
■ TRANSMITTER	[FR6000]	[FR6100]
• Output power	50 W	25 W
• Modulation	Variable reactance frequency modulation	
• Max. frequency deviation	±5.0 kHz (Wide)	
	–	±4.0 kHz (Middle)
	±2.5 kHz (Narrow)	
• Frequency stability	±0.5 ppm	±0.5 kHz
• Spurious emissions	80 dB typ.	0.25 μW (≤1 GHz), 1.00 μW (>1 GHz)
• Adjacent channel power	Wide 73 dB typ.	Wide 73 dB min.
	–	Middle 73 dB min.
	Narrow 67 dB typ.	Narrow 65 dB min.
	Digital 65 dB typ.	Digital 60 dB min.
• Audio harmonic distortion	1% typ. (at AF 1 kHz 40% deviation)	
• Audio frequency response	+2 dB to –8 dB of 6 dB/oct. Wide/Middle from 300 Hz–3000 Hz Narrow from 300 Hz–2550 Hz	
• FM Hum and noise (300 Hz–3000 Hz, 750 us)	Wide 50 dB typ. Narrow 45 dB typ.	

■ RECEIVER	[FR6000]	[FR6100]
• Receive system	Double-conversion superheterodyne system	
• Intermediate frequencies	1st IF: 46.35 MHz, 2nd IF: 450 kHz	
• Sensitivity	Wide/Narrow 0.25 μ V typ. at 12 dB SINAD	Wide/Middle/Narrow –10 dB μ max. at 12 dB SINAD
	Digital 0.25 μ V typ. at 5% BER	Digital 0 dB μ V emf max. at 1% BER (PN9)
• Squelch sensitivity (at threshold)	Wide/Narrow 0.25 μ V typ.	Wide/Middle/Narrow 0.25 μ V typ.
• Adjacent channel selectivity	Wide 78 dB typ.	Wide 70 dB min.
	–	Middle 70 dB min.
	Narrow 56 dB typ.	Narrow 60 dB min.
	Digital 63 dB typ.	Digital 45 dB min.
• Spurious response	Wide/Narrow 70 dB	Wide/Middle/Narrow 70 dB min.
	Digital 65 dB μ V emf	Digital 70 dB μ V emf min.
• Intermodulation	Wide 70 dB min.	
	–	Middle 70 dB min.
	Narrow 70 dB min.	
	Digital 71 dB μ V emf min.	
• Hum and noise	Wide 50 dB typ.	Wide 45 dB min.
	–	Middle 43 dB min.
	Narrow 45 dB typ.	Narrow 40 dB min.
	Digital 55 dB typ.	Digital 55 dB min.
• Audio output power (at 5% distortion with a 4 Ω load)	4.0 W typ.	3.5 W min.
• Audio output impedance	4 Ω	

Specifications are measured in accordance with TIA–603–B (for Wide and Narrow) or EN 300 166 (Digital) for FR6000.

Specifications are measured in accordance with EN 300 086 (for Wide, Middle and Narrow) or EN 300 166 (Digital) for FR6100.

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

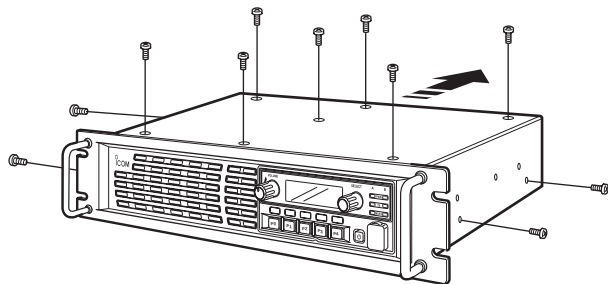


— CLOCK OSC
(X501)

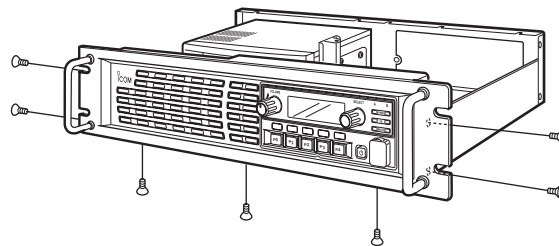
SECTION 3 DISASSEMBLY INSTRUCTION

1. Removing the front panel

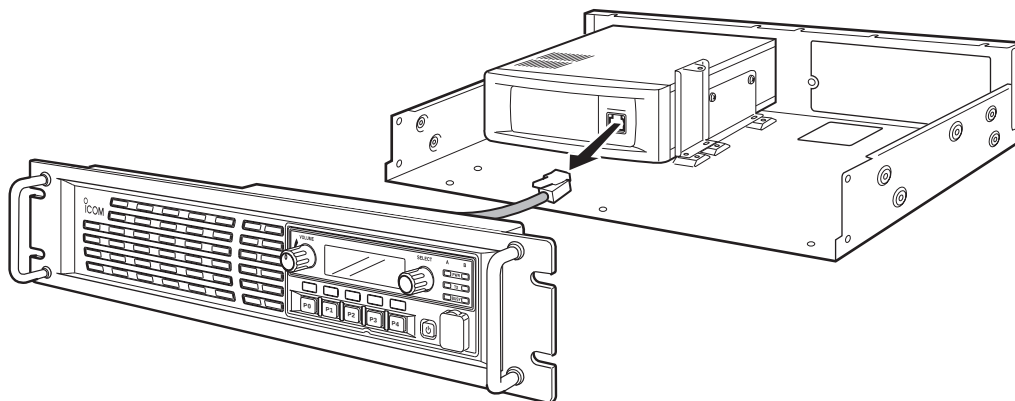
① Unscrew 11 screws from the top cover.



② Unscrew 7 screws from the front panel.

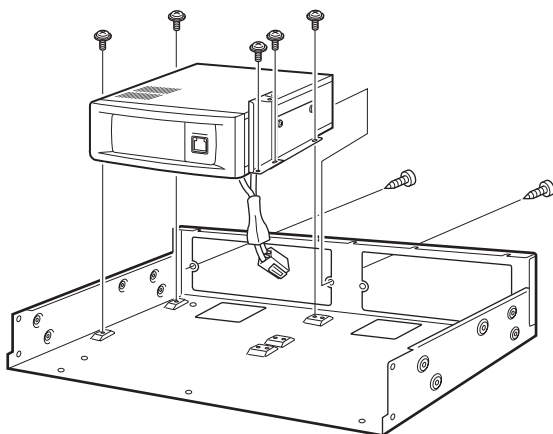


③ Disconnect the cable from the MAIN UNIT assembly, and remove the front panel.

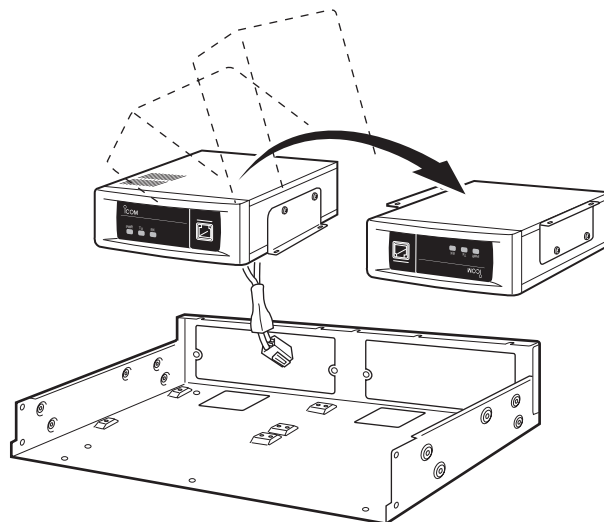


2. Removing the MAIN UNIT assembly

① Unscrew 5 screws which settle the MAIN UNIT assembly.



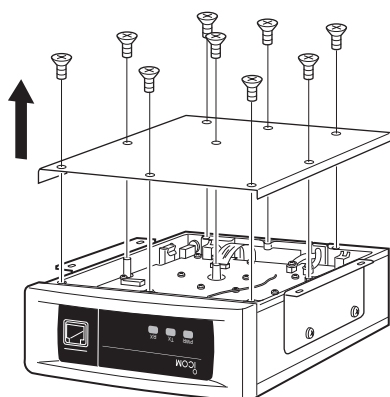
② Turn the MAIN UNIT assembly upside down.



3. Removing the MAIN UNIT

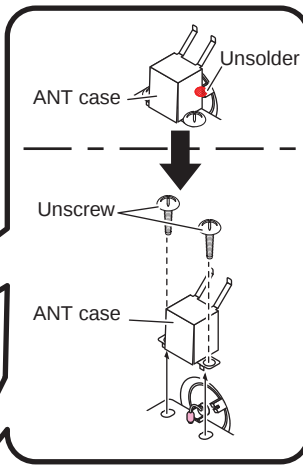
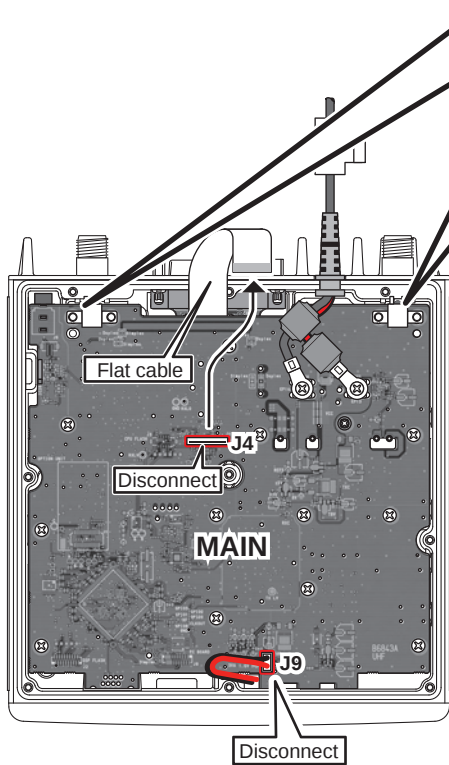
① Unscrew 9 screws, and remove the cover.

(If you are going to install an optional unit, see page 4-1 for the installation.)

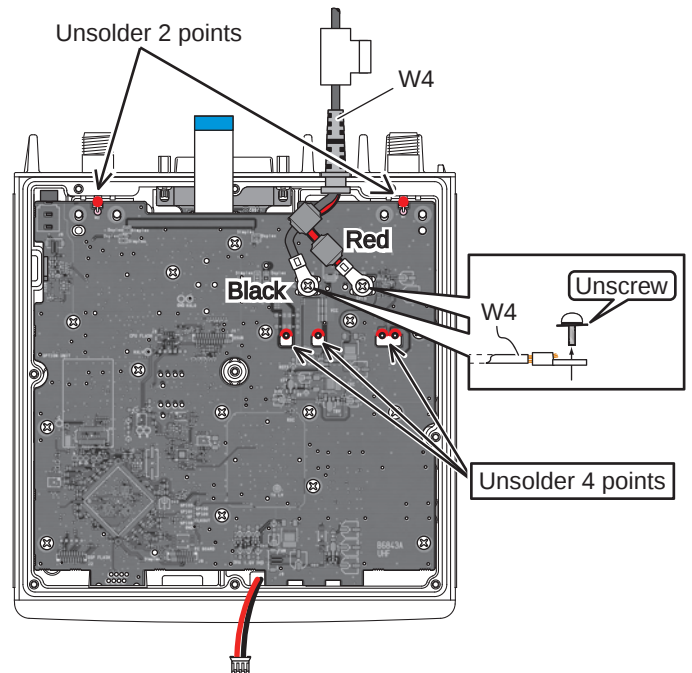


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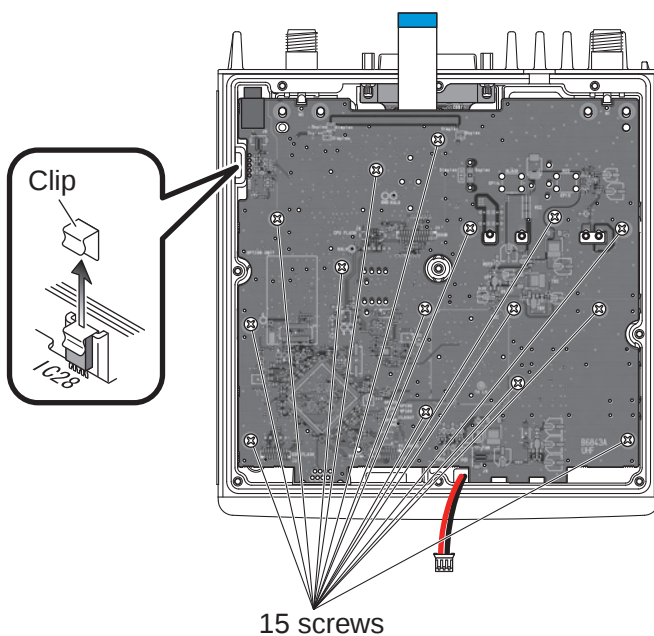
- ② Unsolder 2 points at the ANT cases.
- ③ Unscrew 4 screws from the ANT cases, and remove them.
- ④ Disconnect the flat cable from J4 and the speaker cable from J9.



- ⑤ Unsolder 2 points at the bottom of ANT connectors.
- ⑥ Unsolder 4 points at the PA module leads.
- ⑦ Unscrew 2 screws from W4.



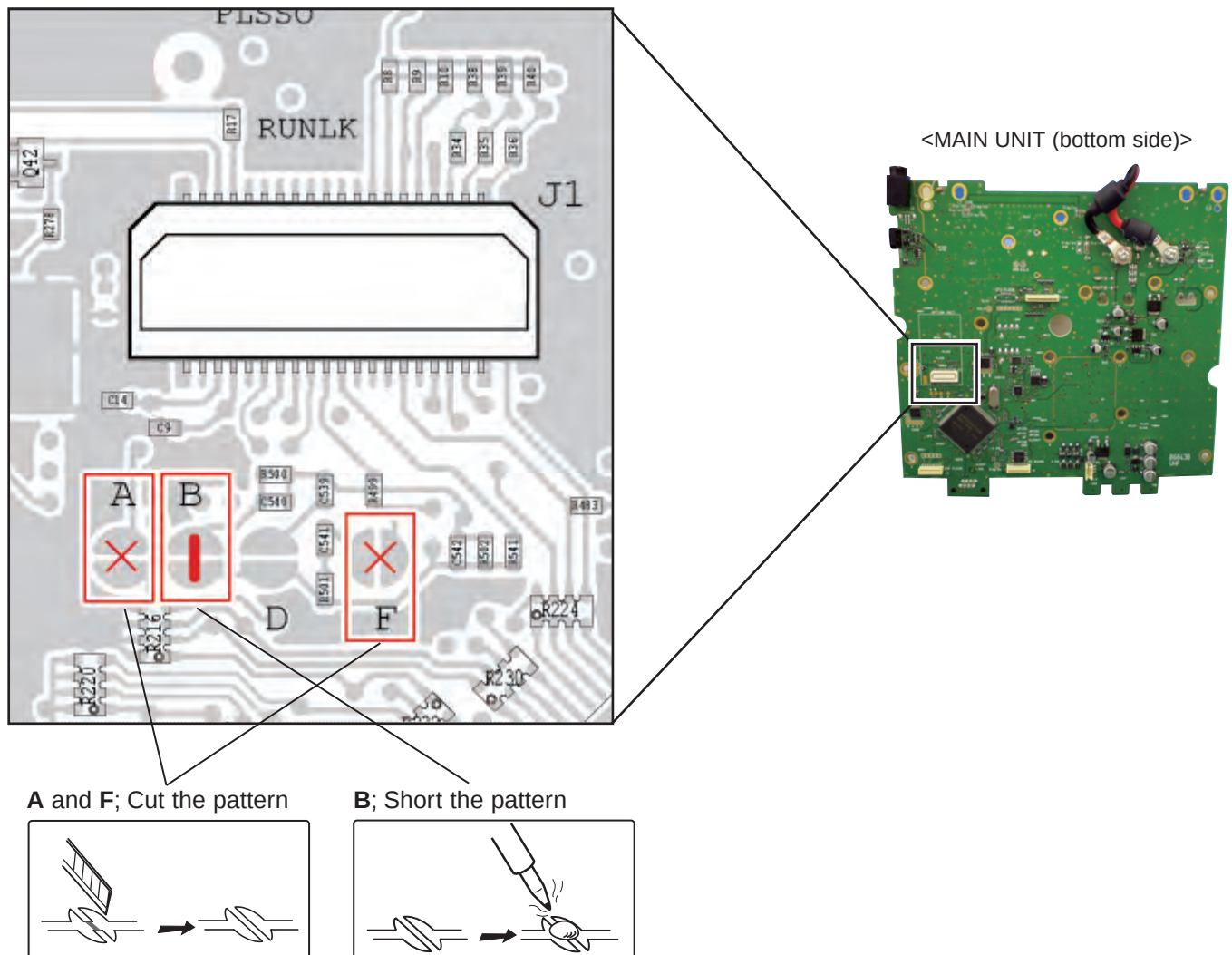
- ⑧ Remove the clip from the side of chassis.
- ⑨ Unscrew 15 screws from the MAIN UNIT, then take off the MAIN UNIT PCB from the chassis.



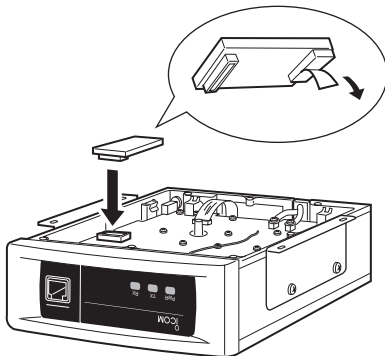
SECTION 4 OPTIONAL UNIT INSTALLATION

Install UT-109R or UT-110R as follows.

- ① Disassembly the repeater until the MAIN UNIT is exposed. (See the page 3-1)
- ② Modify the patterns on the MAIN UNIT as below.



- ③ Remove the protective paper of optional unit, and install it to the J1 as below.



- ④ Replace the cover, screws, etc. to recover the whole assembly.

NOTE: When uninstalling the scrambler unit

Be sure to recover the disconnected or connected points, otherwise no TX modulation or AF output is available.

5-1 TRANSMITTER CIRCUITS

TX PLL CIRCUIT

TX PLL IC (IC3) outputs resulting signal of phase-comparison of REF signal (15.3 MHz) and feedback OSC signal from TX VCO. The phase-difference signal is passed through the active loop filter (Q4, 10, 13) and applied to the TX VCO. The voltage of TX LV is adjusted to appropriate one. The OSC signal of TX VCO is FM-modulated by applied modulation signals.

TX VCO CIRCUITS

There are 2 VCOs; VCO for band LOW (Q23, D10, 14, L19) and band HIGH (Q22, D9, 13, L18), and these VCO (=OSC freq.) are switched by the VCO SW (Q27, 28). The OSC frequencies of these VCO are adjusted (=Locked) by the TX LV signal (Lock Voltage). The modulation signals applied to the Variable Capacitor (VD; D17 or D18) vary the capacitor reactance of it for FM modulation. The output signals of these VCOs are applied to the power AMP circuits via buffers (Q24, 35).

A portion of these output signals are passed through the doubler (Q33) to extract 2nd harmonics, then applied to the PLL IC (IC3) via the LPF.

YGR/PA CIRCUITS

The output signals from TX VCOs are amplified by pre-AMPs (Q37, 38), the amplified the PA module (IC22) to obtain required TX power. The power-amplified TX signals are passed through the ANT SW (D44) and LPF (for harmonics removal) then applied to the TX ANT.

APC CIRCUIT

D45, D48 and D49 detect the TX power and the detected voltage are applied to the IC23 of APC circuit. Comparing the detected voltage (in proportion to TX power) and power setting voltage (as a reference voltage), IC23 adjusts the bias (pin 2: VGG) of PA module to control the TX power.

MODULATION CIRCUITS

The audio signals from the Microphone (MIC signals) are applied to the MIC AMP (IC25). The amplified MIC signals are passed through the SW IC (IC35) which signal selects the source of MIC signals from J5 (from MIC) and from D-SUB connector (DEXM).

The MIC signals from the SW IC are amplified by an AMP (IC1) then applied to the LINEAR CODEC IC (IC8) where the MIC signals are converted in to the digital signals. The converted digital signals are processed (pre-emphasis, limit, etc.) by the DSP (IC12), then recovered to the analog audio signals. The AF signals are amplified by IC1 and level-adjusted by Ele.VR (IC2), then applied to the TX VCO and TCXO (X1) as the modulation signals.

SIGNALING (ENCODE)

The Continuous Tone (CTCSS/DTCS), Single Tone (5-Tone/DTMF/CW_ID) signals are encoded in the DSP (IC12), and mixed with MIC signals, level-adjusted by Ele. VR (IC2), then applied to the TX VCO and TCXO (X1) for modulation.

5-2 RECEIVER CIRCUITS

RX PLL CIRCUIT

The RX PLL IC (IC4) outputs resulting signal of phase-comparison of REF signal from the TCXO (X2: 15.3 MHz) and feedback OSC signal from RX VCO. The phase-difference signal is passed through the active loop filter (Q6, 11, 14) and applied to the RX VCO. The voltage of RX LV (lock voltage) is adjusted to appropriate one by "RX LVA" signal.

A portion of reference frequency signal from the TCXO (X2: 15.3 MHz) is passed through the tripler (Q2) to extract 3rd harmonics, then applied to the IF IC (IC5).

RX VCO

There are 2 VCOs; VCO for band LOW (Q21, D8, 16, L21) and band HIGH (Q20, D7, 15, L20), and these VCO (=OSC freq.) are switched by the VCO SW (Q26, 30). The OSC frequencies of these VCO are adjusted (=Locked) by the RX LV signal (Lock Voltage). The output signals of these VCOs are applied to the 1st mixer (L27, 32, D62) via buffers (Q25, 34) and LO AMP (Q65).

A portion of these output signals are passed through the buffer (Q25) doubler (Q32) to extract 2nd harmonics, then applied to the PLL IC (IC4) via the LPF.

RF BPF CIRCUITS

RX signals from the RX ANT connector (J11) are passed through the 1st stage of BPF (D28, 29, 31, 32, L44, 47) then amplified by the RF AMP (Q36). The amplified RX signals are passed through the 2nd stage of BPF to remove unwanted signals for good image response then applied to the 1st mixer (L27, 32, D62).

Being mixed with 1st LO from the RX VCO, the RX signals are converted into the 46.35 MHz 1st IF signal. The 1st and 2nd stage of the BPF are tune to the pass band frequency by applying the tracking voltage "T1" and "T2" from the DAC (IC17). The gain of low noise RF AMP (Q36) is controlled by the AGC circuit (Q39, D27) according to the RX signal strength.

IF FILTER/IF AMP CIRCUITS

The 1st IF signal from the 1st mixer (L27, 32, D62) is amplified by the post AMP (Q63, 64) and 1st stage of IF AMP (Q7) then filtered by crystal filter (FI3 or FI4), and then applied to the IF IC (IC5).

The crystal filters (FI3 or FI4) are switched by the "NWC 1" signal from the CPU (IC20) according to the RX mode; Wide (Middle), Narrow and Digital.

<ANALOG RX>

Being mixed with the 2nd LO, the 1st IF signal is converted into the 450 kHz 2nd IF signal then detected by the internal quadrature detector (X3 as a discriminator) to demodulate. The demodulated AF signals are amplified by the AF AMP (IC36), and applied to the LINER CODEC (IC8). The AF signals are converted into the digital signal then processed by the DSP (IC12) then recovered to the analog audio signals.

The ceramic filters (FI1 or FI2) are switched by the "NWC2" signal from the CPU (IC20) according to the RX mode; Wide (Middle), Narrow and Digital.

<DIGITAL RX>

The 450 kHz 2nd IF signal is amplified by IC7 then applied to the DSP (IC12) via ADC (IC9) and digital demodulated. The processed digital signal is converted into the analog audio signal by the LINEAR CODEC (IC8).

AF AMPLIFIER CIRCUITS

The AF signals from the LINEAR CODEC are amplified by the AF AMP (IC36) and level-adjusted by DAC (IC2), then applied to IC28 via IC29 to be power-amplified.

SIGNALING (DECODE)

The Continuous Tone (CTCSS/DTCS), Single Tone (5-Tone/DTMF/CW_ID) signals in the demodulated AF signals are decoded in the DSP (IC8).

5-3 OTHER CIRCUITS

POWER SUPPLY

The power supply is switched by Q57 (ON/OFF). 5V (REF5) from the regulator (IC30) is passed through L58 to supply to CPU. The 5V also supplies to other sections of the repeater via Q41 as "+5V."

8V from the regulator (IC27) are supplies to various circuits, and also supplies to TX circuits as "T8V" and RX circuits as "8V."

5V from the regulator (IC39) supplies DSP as "DSP5" and supplies logic circuits; CPU, DSP, etc. via regulators (IC13, 14, 15).

The regulator "F8V" (IC41) provides the supply for FRONT UNIT.

COMPANDER

The compander in the DSP (IC12) compresses the amplitude of MIC signals in TX, and expands in RX to provide high quality recovered sounds.

LED

DS1 (BUSY), DS2(PWR) and DS3 (TX) indicate the repeater's status: Power ON, T/RX and Cloning.

5-4 CPU (M: IC20) PORT ALLOCATION

Pin No.	LINE NAME	DESCRIPTION	IN/OUT	CONDITION
140–144	D0–D4	DSP data bus line.	I/O	–
1–11	D5–D15	DSP data bus line.	I/O	–
15–28	A1–A14	DSP data bus line.	I/O	–
29	HRW	DSP data line.	I/O	–
32	FANS	Cooling fan (CH: MF1) rotation detect.	I	"H"=While the cooling fan is rotating.
33	TLED	TX indicator LED control signal.	O	"H"=TX
34	LEDR	RX indicator LED control signal.	O	"H"=Squelch open.
35	PLSCK	PLL (M: IC4) serial clock.	O	–
36	PLSSO	PLL (M:IC4) serial data.	O	–
41	PWON	Power line "VCC" control signal.	O	"H"=Power ON.
42	AFON2	AF power AMP. (M: IC28) control signal.	O	"H"=AF power AMP ON.
43	AFON	AF output select signal.	O	"H"=AF signals are output from the [ACCESSORY CONNECTOR].
44	ESCL	Serial clock to the EEPROM (M: IC21).	O	–
45	ESDA	Serial data to the EEPROM (M: IC21).	O	–
46	TXC	TX power line "T8V" control signal.	O	"H"=TX
47	RXC	RX power line "R8V" control signal.	O	"H"=RX
48	RPLST	RX PLL (M: IC4) strobe.	O	–
49	TPLST	TX PLL (M: IC3) strobe.	O	–
50	RUNLK	RX PLL (M: IC4) unlock signal.	I	"L"=Unlocked
51	TUNLK	TX PLL (M: IC3) unlock signal.	I	"L"=Unlocked
52	XCTS	Serial data from the RS-232 line driver (M: IC26).	I	–
53	XRTS	Serial data to the RS-232 line driver (M: IC26).	O	–
55	EXDA	External D/A port.	O	–
56	BEEP	Beep sounds (square waves).	O	–
57–59	OPV3–OPV1	Optional unit detect.	I	–
60	MMUT	MIC mute signal to the installed optional unit.	O	"H"=MIC mute
61	HANG	Microphone hang-up detect.	I	"L"=Hang-up
62	PTT	[PTT] key input. (pull up)	I	–
63	RMUT	RX mute signal to the installed optional unit.	O	"H"=RX mute
64	EXAD	External A/D port.	I	–
65	TEMP	Temperature detect.	I	–
68	RLVIN	RX PLL lock voltage.	I	–
69	BATV	Voltage monitor (divided voltage of "VCC").	I	–
70	TLVIN	TX PLL lock voltage.	I	–
71	RSSI	RSSI signal from the IF IC (M: 5).	I	–
74	XTXD	External data to the RS-232 driver (M: IC26).	O	–
75	XRXD	External data from the RS-232 driver (M: IC26).	I	–
76	TMUT	TX mute signal.	O	"H"=TX mute
77	HINT	DSP IC control signal.	O	–
78	INT1	DSP IC control signal.	O	–
79	HRDY	DSP IC control signal.	O	–
81	HDS1	DSP IC control signal.	O	–
82	HDS2	DSP IC control signal.	O	–
100	RES	CPU reset signal from the reset IC (F: IC501).	O	–
101–108	EXIO1–EXIO8	External data bus line.	I/O	+5 V pull-up
112	POSW	[PWR] key input. (pull-up)	I	–
113	NOIS	Noise detect.	I	"H"=RX signal is absent (squelch close).
114	CSFT	Clock frequency shift signal.	O	–
119	SSO	Serial data to the seri-para converter (M: IC31).	O	–
120	SCK	Clock signal to the seri-para converter (M: IC31).	O	–
121	EXIO9	External data bus line.	I/O	+5 V pull-up
122	DSDA	Serial data to the DAC (M: IC17).	O	–

3-4 CPU (M: IC20) PORT ALLOCATION (continued)

Pin No.	LINE NAME	DESCRIPTION	IN/OUT	CONDITION
123	DAST	Strobe to the DAC (M: IC2).	O	–
125	FMDA	Data from the FRONT CPU (F: IC502).	I	–
126	MFDA	Data to the FRONT CPU (F: IC502).	O	–
127	OPT2	Port for optional unit.	O	–
128	OPT1	Port for optional unit.	I	–
129	OPT3	Port for optional unit.	I	–
131	CSO	Port for optional unit.	O	–
132	CSI	Port for optional unit.	I	–
133	EXOE	Output enable signal to the seri-para converter (M: IC31).	O	–
134	EXST	Strobe to the seri-para converter (M: IC31).	O	–
135	DRES	Reset signal to the DSP IC (M: IC12).	O	–
136	HCS	DSP data line.	I/O	–
138	GPIO2	DSP data line.	I/O	–
139	GPIO1	DSP data line.	I/O	–

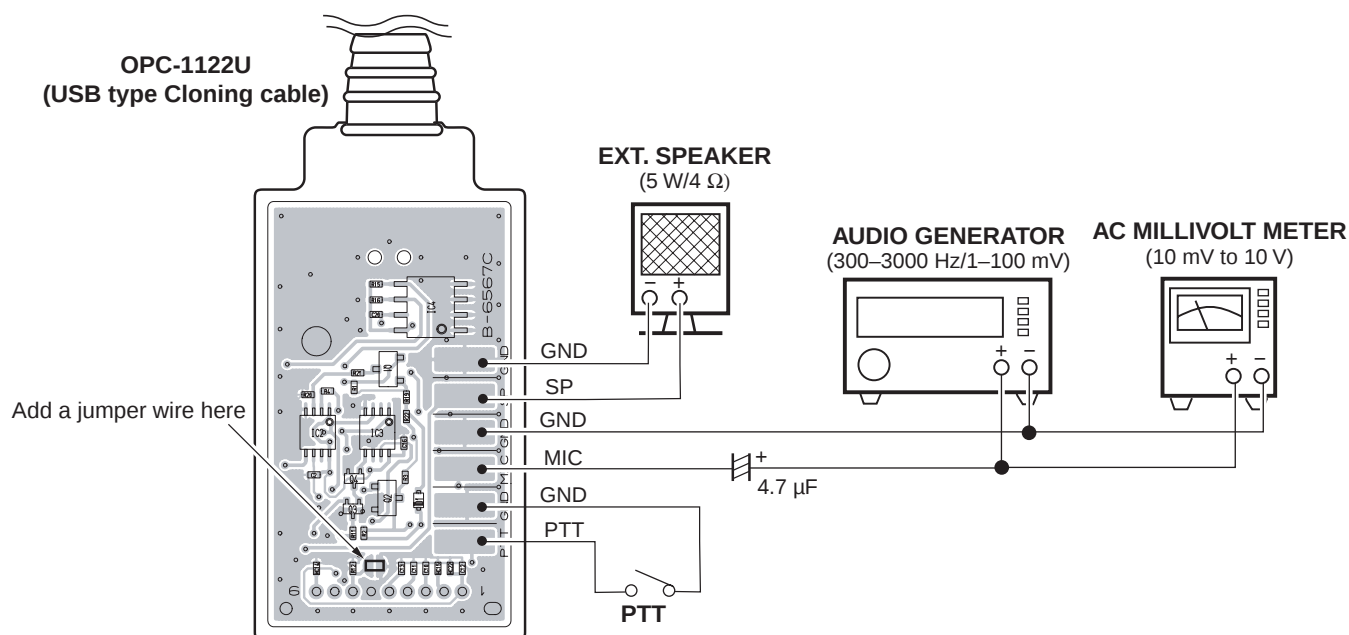
SECTION 6 ADJUSTMENT PROCEDURE

6-1 PREPARATION

■ REQUIRED EQUIPMENTS

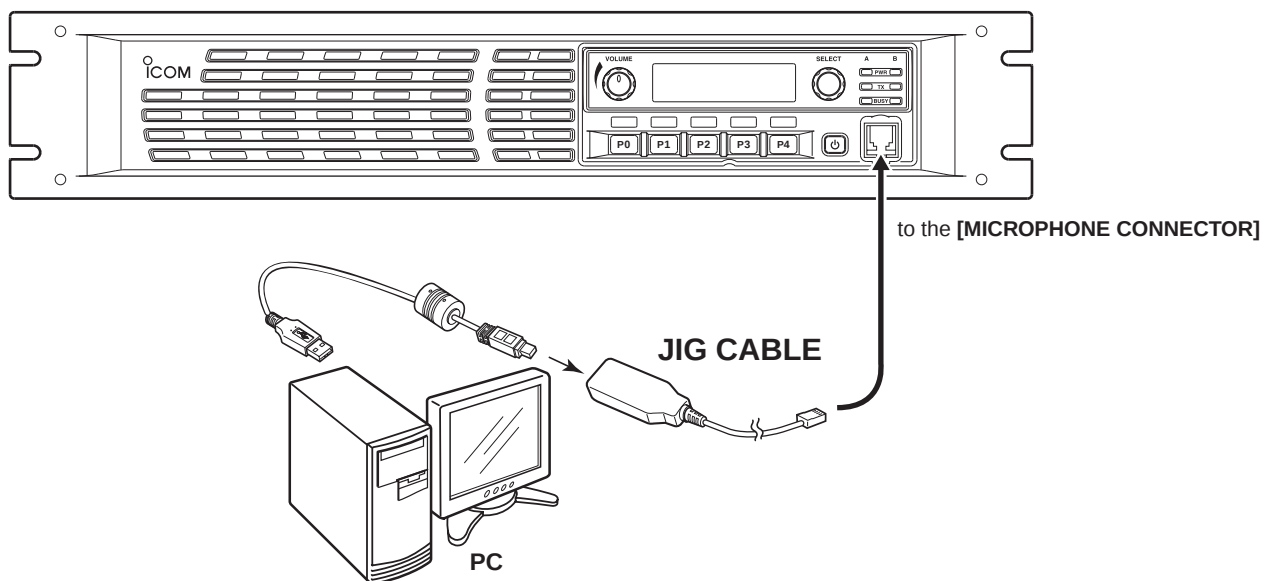
EQUIPMENT	SPECIFICATION	EQUIPMENT	SPECIFICATION
Adjustment Software	"CS-FR5000" (Revision 1.0 or later)	JIG cable	Modified OPC-1122U (USB type) (see the illust below)
Power Supply	Output voltage : 13.6 V DC [FR6000] 13.2 V DC [FR6100] Current capacity : More than 20 A [FR6000] More than 10 A [FR6100]	Attenuator	Power attenuation : 40 dB Capacity : More than 60 W [FR6000] More than 30 W [FR6100]
RF Power Meter (terminated type)	Measuring range : 1–60 W [FR6000] 1–30 W [FR6100] Frequency range : 100–600 MHz Impedance : 50 Ω SWR : Less than 1.2 : 1	Standard Signal Generator (SSG)	Frequency range : 0.1–600 MHz Output level : 0.1 mV to 32 mV (–127 to –17 dBm)
		Audio Generator	Frequency range : 300–3000 Hz Output level : 1–500 mV
Frequency Counter	Frequency range : 0.1–600 MHz Frequency accuracy : ± 1 ppm or better Input level : Less than 1 mW	AC Millivoltmeter	Measuring range : 10 mV to 10 V
		Oscilloscope	Frequency range : DC–20 MHz Measuring range : 0.01–20 V
Modulation Analyzer	Frequency range : 30–600 MHz Measuring range : 0 to ± 10 kHz	External Speaker	Input impedance : 4 Ω Capacity : More than 5 W

■ JIG CABLE

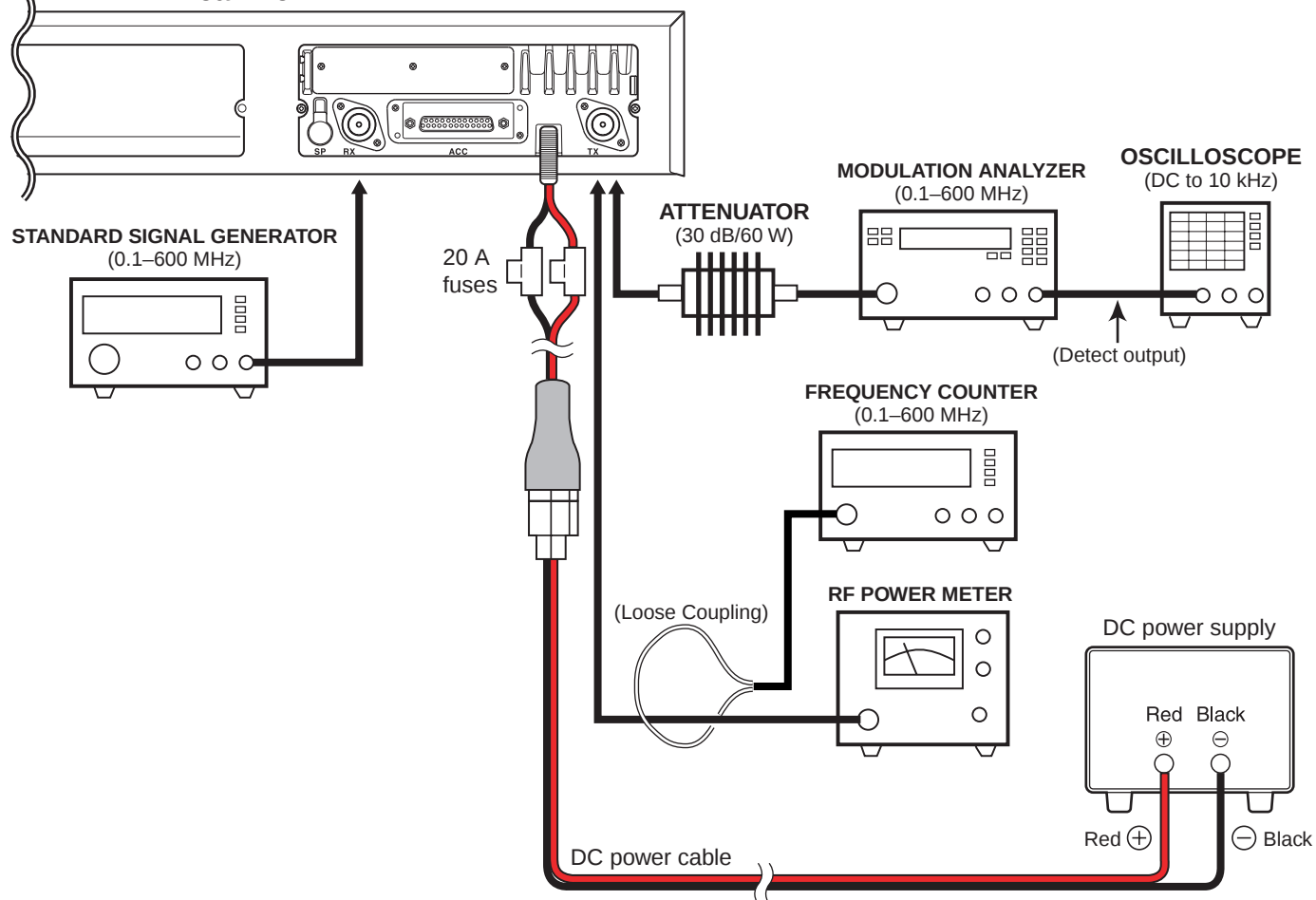


CONNECTION

<Front view>



<Rear view>



ADJUSTMENT CHANNEL LISTS

Clone the adjust channels into the repeater before starting adjustment. Each channel must be assigned [Frequency], [RF PWR], [CH Type], [TX C. Tone] and [W/N] as below.

• Channel list for [Low band] version

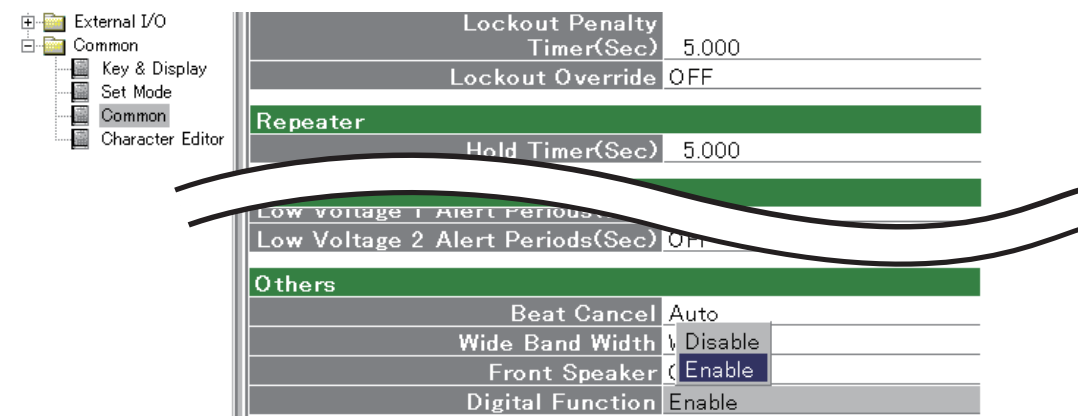
				Frequency (MHz)					TOT									FM	
CH	Atr	Inh	Operation Mode	RX	TX	TX Inh	Text	Local Mic	Repeat/EPTT	RF PWR	Lock-out		to an	CH Type	Au Res		TX C. Tone	W/N	
1- 1	AB		Simplex	400.100000	<-		LV L ADJ			L1				Analog	Tim			W	
1- 2			Simplex	435.100000	<-		LV H ADJ			L1				Analog	Tim			W	
1- 3			Simplex	434.950000	<-		LV L VRFY			L1				Analog	Tim			W	
1- 4			Simplex	469.900000	<-		LV H VRFY			L1				Analog	Tim			W	
1- 5			Simplex	469.900000	<-		TX Freq			L1				Analog	Tim			W	
1- 6			Simplex	400.100000	<-		TX PWR Hi			H				Analog	Tim			W	
1- 7			Simplex	400.100000	<-		TX PWR L2			L2				Analog	Tim			W	
1- 8			Simplex	400.100000	<-		TX PWR L1			L1				Analog	Tim			W	
1- 9			Simplex	400.100000	<-		BAL			L1				Analog	Tim			W	
1- 10			Simplex	435.100000	<-		BAL Offset			L1				Analog	Tim			W	
1- 11			Simplex	400.100000	<-		DG Dev.			L1				Digital	Tim		----	-	
1- 12			Simplex	411.500000	<-		DG Dev. 0			L1				Digital	Tim		----	-	
1- 13			Simplex	423.200000	<-		DG Dev. 1			L1				Digital	Tim		----	-	
1- 14			Simplex	434.900000	<-		DG Dev. 2			L1				Digital	Tim		----	-	
1- 15			Simplex	435.100000	<-		DG Dev. Offs			L1				Digital	Tim		----	-	
1- 16			Simplex	446.600000	<-		DG Dev. 3			L1				Digital	Tim		----	-	
1- 17			Simplex	458.300000	<-		DG Dev. 4			L1				Digital	Tim		----	-	
1- 18			Simplex	469.900000	<-		DG Dev. 5			L1				Digital	Tim		----	-	
1- 19			Simplex	400.100000	<-		AN Dev. W			L1				Analog	Tim			W	
1- 20			Simplex	400.100000	<-		AN Dev. M			L1				Analog	Tim			W	
1- 21			Simplex	400.100000	<-		AN Dev. N			L1				Analog	Tim			N	
1- 22			Simplex	400.100000	<-		CT/DT Dev.			L1				Analog	Tim		151.4	W	
1- 23			Simplex	400.100000	<-	i	BPF C T2			L1				Analog	Tim			W	
1- 24			Simplex	469.900000	<-	i	BPF H ALL			L1				Analog	Tim			W	
1- 25			Simplex	400.100000	<-	i	RSSI			L1				Analog	Tim			W	
1- 26			Simplex	400.100000	<-	i	SQL			L1				Analog	Tim			W	

• Channel list for [High band] version

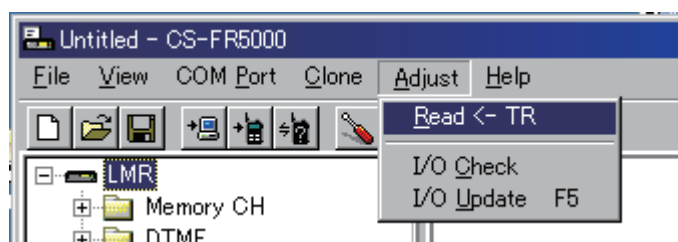
			Frequency (MHz)					TOT							FM			
CH	Atr	Inh	Operation Mode	RX	TX	TX Inh	Text	Local Mic	Repeat/ EPTT	RF PWR	Loc ou	on	CH Type	Au Res		TX C. Tone	W/N	C
1- 1	AB		Simplex	450.100000	<-		LV L ADJ			L1			Analog	Tim			W	
1- 2			Simplex	485.100000	<-		LV H ADJ			L1			Analog	Tim			W	
1- 3			Simplex	484.950000	<-		LV L VRFY			L1			Analog	Tim			W	
1- 4			Simplex	519.900000	<-		LV H VRFY			L1			Analog	Tim			W	
1- 5			Simplex	519.900000	<-		TX Freq			L1			Analog	Tim			W	
1- 6			Simplex	450.100000	<-		TX PWR Hi			H			Analog	Tim			W	
1- 7			Simplex	450.100000	<-		TX PWR L2			L2			Analog	Tim			W	
1- 8			Simplex	450.100000	<-		TX PWR L1			L1			Analog	Tim			W	
1- 9			Simplex	450.100000	<-		BAL			L1			Analog	Tim			W	
1- 10			Simplex	485.100000	<-		BAL Offset			L1			Analog	Tim			W	
1- 11			Simplex	450.100000	<-		DG Dev.			L1			Digital	Tim		----	-	
1- 12			Simplex	461.500000	<-		DG Dev. 0			L1			Digital	Tim		----	-	
1- 13			Simplex	473.200000	<-		DG Dev. 1			L1			Digital	Tim		----	-	
1- 14			Simplex	484.900000	<-		DG Dev. 2			L1			Digital	Tim		----	-	
1- 15			Simplex	485.100000	<-		DG Dev. Offs			L1			Digital	Tim		----	-	
1- 16			Simplex	496.600000	<-		DG Dev. 3			L1			Digital	Tim		----	-	
1- 17			Simplex	508.300000	<-		DG Dev. 4			L1			Digital	Tim		----	-	
1- 18			Simplex	519.900000	<-		DG Dev. 5			L1			Digital	Tim		----	-	
1- 19			Simplex	450.100000	<-		AN Dev. W			L1			Analog	Tim			W	
1- 20			Simplex	450.100000	<-		AN Dev. M			L1			Analog	Tim			W	
1- 21			Simplex	450.100000	<-		AN Dev. N			L1			Analog	Tim			N	
1- 22			Simplex	450.100000	<-		CT/DT Dev.			L1			Analog	Tim		151.4	W	
1- 23			Simplex	450.100000	<-	i	BPF C T2			L1			Analog	Tim			W	
1- 24			Simplex	519.900000	<-	i	BPF H ALL			L1			Analog	Tim			W	
1- 25			Simplex	450.100000	<-	i	RSSI			L1			Analog	Tim			W	
1- 26			Simplex	450.100000	<-	i	SQL			L1			Analog	Tim			W	

WHOLE PROCEDURE OF THE ADJUSTMENT

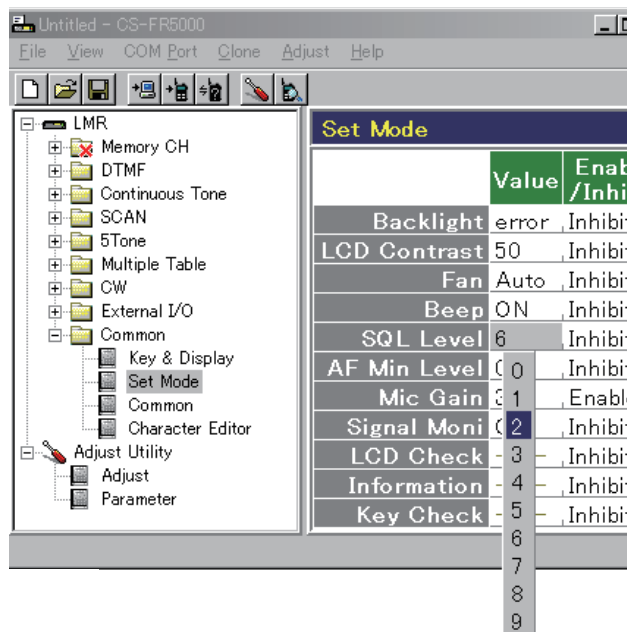
- ① Connect the repeater and PC with the JIG cable (see the page 6-2).
- ② Turn the repeater power ON.
- ③ Boot up 'CS-FR5000.'
- ④ Set the [Digital Function] to "Enable."



- ④ Click  or [Read <- TR] in the [Adjust] menu, then the "Adjust Utility" window (see the page 6-5) appears.

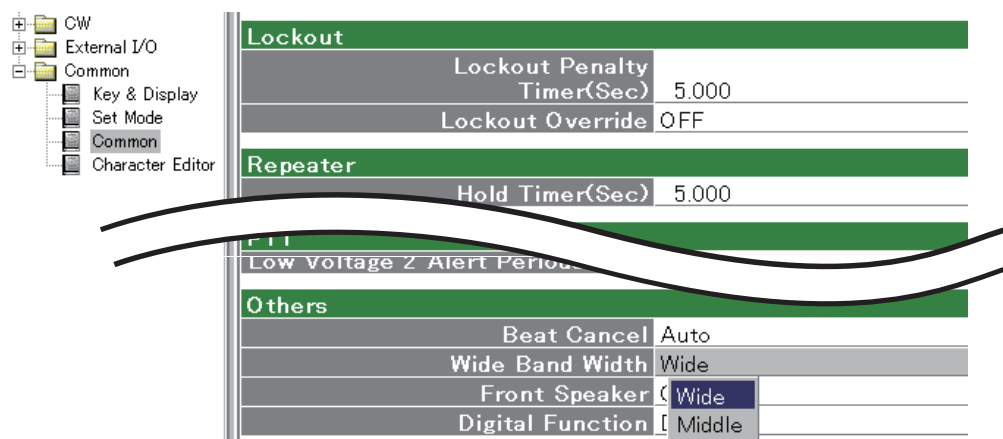


- ⑤ Set or modify adjustment values as specified in the guidances on the pages 6-6 to 6-9.



*For [FR6100]:

Set the [Wide Band Width] to "Middle" when adjust "ANALOG DEVIATION" in Middle mode.



ADJUST UTILITY WINDOW

Adjust Utility			
Setting			
	CH No.	1	Receive Sim
	RX Freq.		451.1000MHz
	TX Freq.		452.1000MHz
	RF Power.		Low
	W/N		Wide
	CH Type		RX=Digital TX=Digital
Mode setting	TX Mode	17	Digital FNB
	RX Mode	2	Digital
	AF Volume	0	[-----]
Adjust			
TX output power	Power (H)	208	[-----]
	Power (L2)	150	[-----]
	Power (L1)	76	[-----]
Analog deviation	MOD (Wide)	139	[-----]
	MOD (Mid)	144	[-----]
	MOD (Narrow)	65	[-----]
	MOD (Digital)	105	[-----]
CTCSS/DTCS deviation	CTCSS/DTCS	137	[-----]
	S.Tone	75	[-----]
Squelch	SQL	50	[-----]
Expert			
TX frequency	RX REF	178	[-----]
	TX REF	126	[-----]
Lock volatge (Preset)	RX LVA L	80	[-----] [Enter] to Sweep
	RX LVA H	62	[-----] [Enter] to Sweep
	TX LVA L	166	[-----] [Enter] to Sweep
	TX LVA H	105	[-----] [Enter] to Sweep
Lock volatge (Adjustment)	LV (RX L)	36	0.70V
	LV (RX H)	36	0.70V
	LV (TX L)	36	0.70V
	LV (TX H)	36	0.70V
S-meter	RSSI	74	[Enter] to Capture
Modulation balance	BAL	174	[-----]
Modulation balance (High)	BAL Offset (High)	0	[-----]
Digital deviation	PWR Hi Slant Band 0	0	[-----] 399.900000 - 411.599999 MHz
	PWR Hi Slant Band 1	3	[-----] 411.600000 - 423.299999 MHz
	PWR Hi Slant Band 2	4	[-----] 423.300000 - 434.999999 MHz
	PWR Hi Slant Band 3	25	[-----] 435.000000 - 446.699999 MHz
	PWR Hi Slant Band 4	8	[-----] 446.700000 - 458.399999 MHz
	PWR Hi Slant Band 5	6	[-----] 458.400000 - 470.099999 MHz
	PWR Hi Slant Band 6	0	[-----] 470.100000 - 481.799999 MHz
	PWR L2 Slant Band 0	0	[-----] 399.900000 - 411.599999 MHz
	PWR L2 Slant Band 1	4	[-----] 411.600000 - 423.299999 MHz
	PWR L2 Slant Band 2	4	[-----] 423.300000 - 434.999999 MHz
	PWR L2 Slant Band 3	17	[-----] 435.000000 - 446.699999 MHz
	PWR L2 Slant Band 4	8	[-----] 446.700000 - 458.399999 MHz
	PWR L2 Slant Band 5	6	[-----] 458.400000 - 470.099999 MHz
	PWR L2 Slant Band 6	0	[-----] 470.100000 - 481.799999 MHz
	PWR L1 Slant Band 0	0	[-----] 399.900000 - 411.599999 MHz
	PWR L1 Slant Band 1	0	[-----] 411.600000 - 423.299999 MHz
	PWR L1 Slant Band 2	2	[-----] 423.300000 - 434.999999 MHz
	PWR L1 Slant Band 3	14	[-----] 435.000000 - 446.699999 MHz
	PWR L1 Slant Band 4	6	[-----] 446.700000 - 458.399999 MHz
	PWR L1 Slant Band 5	4	[-----] 458.400000 - 470.099999 MHz
	PWR L1 Slant Band 6	0	[-----] 470.100000 - 481.799999 MHz
	MOD Slant Band 0	0	[-----] 399.900000 - 411.599999 MHz
	MOD Slant Band 1	-9	[-----] 411.600000 - 423.299999 MHz
	MOD Slant Band 2	-13	[-----] 423.300000 - 434.999999 MHz
	MOD Slant Band 3	-2	[-----] 435.000000 - 446.699999 MHz
	MOD Slant Band 4	-5	[-----] 446.700000 - 458.399999 MHz
	MOD Slant Band 5	2	[-----] 458.400000 - 470.099999 MHz
	MOD Slant Band 6	0	[-----] 470.100000 - 481.799999 MHz
	MOD Offset (High)	0	[-----]
*2Receive sensitivity (Band center)	BPF C ALL		[Enter] to Sweep
*1Receive sensitivity preset	BPF T1 C	4	[-----] [Enter] to Sweep
*1Receive sensitivity (Band center)	BPF T2 C	25	[-----] [Enter] to Sweep
Receive sensitivity (Band high)	BPF L ALL		[Enter] to Sweep
	BPF T1 L	80	[-----] [Enter] to Sweep
	BPF T2 L	45	[-----] [Enter] to Sweep
	BPF H ALL		[Enter] to Sweep
	BPF T1 H	69	[-----] [Enter] to Sweep
	BPF T2 H	53	[-----] [Enter] to Sweep

*1[Low band] only

*2[High band] only

6-2 FREQUENCY ADJUSTMENT

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

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

ADJUSTMENT	ADJUSTMENT CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
PLL LOCK VOLTAGE -Preparation-	1	1) Connect an RF power meter to the TX antenna. 2) Set the preset adjustment value on the adjustment utility window.	[LV (RX L)] [LV (RX H)] [LV (TX L)] [LV (TX H)]	36 [0.70V] (for each item)
-Adjust- RX (Band low)	2 • CH. : 1-1 • Receiving	• Select the item [RX LVA L], then push the [ENTER] key.	[RX LVA L]	(Automatic adjustment)
RX (Band high)	3 • CH. : 1-2 • Receiving	• Select the item [RX LVA H], then push the [ENTER] key.	[RX LVA H]	
TX (Band low)	4 • CH. : 1-1 • Transmitting	• Select the item [TX LVA L], then push the [ENTER] key.	[TX LVA L]	
TX (Band high)	5 • CH. : 1-2 • Transmitting	• Select the item [TX LVA H], then push the [ENTER] key.	[TX LVA H]	
LOCK VOLTAGE VERIFY	1 • CH. : 1-3 • Receiving	• Verify the lock voltage at each channels on the [RX LIVIN] item on the "I/O Check window" as below.	[RX LIVIN] (I/O Check window)	3.0–4.3 V (Verify)
RX (Band low)				
RX (Band high)	2 • CH. : 1-4 • Receiving			3.0–4.0 V (Verify)
TX (Band low)	3 • CH. : 1-3 • Transmitting	• Verify the lock voltage at each channels on the [TX LIVIN] item on the "I/O Check window" as below.	[TX LIVIN] (I/O Check window)	2.7–4.0 V (Verify)
TX (Band high)	4 • CH. : 1-4 • Transmitting			3.0–4.2 V (Verify)
TX FREQUENCY	1	1) Set the item [TX Mode] to "1." 2) Connect an RF power meter to the TX antenna.	[TX Mode]	"1"
	2 • CH. : 1-5 • Transmitting	1) Adjust the frequency using [←] / [→] keys of the PC's keyboard. 2) Push the [ENTER] key to store the adjust value.	[TX REF]	470.0000 MHz [Low band] 520.0000 MHz [High band]

• I/O CHECK WINDOW

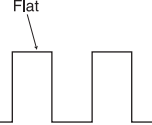
I/O Check			
Input	Dec	Hex	Data
VIN	180	B4	14.12V
TEMP	100	06	38.21°C
RX LIVIN	116	74	2.27V
TX LIVIN	219	DB	4.29V
SD	28	1C	0.55V
Output	Dec	Hex	Data
BPF T1	165	A5	3.24V
BPF T2	253	FD	4.96V
RF POWER	0	0	0.00V
RX LVA	165	A5	3.24V
TX LVA	145	91	2.84V
RX REF	77	4D	1.51V
TX REF	126	7E	2.47V
MOD BAL	0	0	0.00V
DEV	43	2B	0.84V
FANV	255	FF	5.00V

Lock voltage verify

6-3 TRANSMIT ADJUSTMENT

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

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

ADJUSTMENT		ADJUSTMENT CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
TX Output Power -Preparation-	1	—	• Connect an RF power meter to the TX antenna connector.	—	—
	2	• CH. : 1-6 • Transmitting	1) Adjust the TX output power using [←] / [→] keys of the PC's keyboard. 2) Push the [ENTER] key to store the adjust value.	[Power(Hi)]	50 W [FR6000] 25 W [FR6100]
	3	• CH. : 1-7 • Transmitting		[Power(L2)]	25 W [FR6000] 10 W [FR6100]
	4	• CH. : 1-8 • Transmitting		[Power(L1)]	5 W [FR6000] 2.5 W [FR6100]
MODULATION BALANCE -Preparation-	1	• Connect a Modulation Analyzer to the TX antenna connector through an attenuator.	• Set the Modulation Analyzer as; HPF : OFF LPF : 20 kHz De-emphasis : OFF Detector : (P-P)/2	—	—
	2	• Connect an Audio Generator to the MIC line through the JIG cable.	• Set the Audio Generator as; Modulation : 1 kHz Level : 40 mV rms Wave form : Sine wave	—	—
	3	—	• Set the item [TX Mode] to "2."	[TX Mode]	"2"
-Adjust- (VCO 1)	4	• CH. : 1-9 • Transmitting	1) Adjust the wave form using [←] / [→] keys of the PC's keyboard. 2) Push the [ENTER] key to store the adjust value.	[BAL]	(square wave form)
(VCO 2)	5	• CH. : 1-10 • Transmitting		[BAL Offset (High)]	
DIGITAL DEVIATION -Preparation-	1	—	• Set the item [TX Mode] to "16."	[TX Mode]	"16"
	2	• Connect a Modulation Analyzer to the TX antenna connector through an attenuator.	• Set the Modulation Analyzer as; HPF : OFF LPF : 20 kHz De-emphasis : OFF Detector : (P-P)/2	—	—
-Adjust- (Band 1)	3	• CH. : 1-11 • Transmitting	1) Adjust the deviation using [←] / [→] keys of the PC's keyboard. 2) Push the [ENTER] key to store the adjust value.	[MOD (Digital)]	±1.39–1.43 kHz
(Band 2)	4	• CH. : 1-12 • Transmitting		[MOD Slant Band 0]	
(Band 3)	5	• CH. : 1-13 • Transmitting		[MOD Slant Band 1]	
(Band 4)	6	• CH. : 1-14 • Transmitting		[MOD Slant Band 2]	
(Band 5)	7	• CH. : 1-15 • Transmitting		[MOD Offset (High)]	
(Band 6)	8	• CH. : 1-16 • Transmitting		[MOD Slant Band 3]	
(Band 7)	9	• CH. : 1-17 • Transmitting		[MOD Slant Band 4]	
(Band 8)	10	• CH. : 1-18 • Transmitting		[MOD Slant Band 5]	

6-3 TRANSMIT ADJUSTMENT (continued)

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

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

ADJUSTMENT	ADJUSTMENT CONDITION	OPERATION	ADJUSTMENT ITEM	VALUE
ANALOG DEVIATION -Preparation-	1	—	• Set the item [TX Mode] to "1."	[TX Mode] "1"
	2	• Connect a Modulation Analyzer to the TX antenna connector through an attenuator.	• Set the Modulation Analyzer as; HPF : OFF LPF : 20 kHz De-emphasis : OFF Detector : (P-P)/2	— —
	3	• Connect an Audio Generator to the MIC line through the JIG cable.	• Set the Audio Generator as; Modulation : 1 kHz Level : 40 mV rms Wave form : Sine wave	— —
-Adjust- (Wide)	4	• CH. : 1-10 • Transmitting	1) Adjust the deviation using [←] / [→] keys of the PC's keyboard. 2) Push the [ENTER] key to store the adjust value.	[MOD (Wide)] ±4.05–4.15 kHz
(Middle) <[FR6100] only>	5	• CH. : 1-11 • [Wide Band Width] : "Middle" (see the page 6-4) • Transmitting		[MOD (Middle)] ±3.15–3.25 kHz
(Narrow)	6	• CH. : 1-12 • Transmitting		[MOD (Narrow)] ±2.05–2.15 kHz
CTCSS/DTCS DEVIATION -Preparation-	1	—	• Set the item [TX Mode] to "3."	[TX Mode] "3"
-Adjust-	2	• CH. : 1-19 • Transmitting	1) Adjust the deviation using [←] / [→] keys of the PC's keyboard. 2) Push the [ENTER] key to store the adjust value.	[CTCSS] ±0.68–0.72 kHz

6-4 RECEIVE ADJUSTMENT

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

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

ADJUSTMENT	ADJUSTMENT CONDITION	OPERATION	ADJUSTMENT ITEM/POINT	VALUE
RECEIVE SENSITIVITY -Preparation-	1	—	• Set the item [RX Mode] to "1."	[RX Mode] "1"
	2	• Connect an SSG to the RX antenna connector.	• Set the SSG as; Frequency : 400.000 MHz [FR6000] 450.00 MHz [FR6100] Level : +20 dBμ Modulation : 1 kHz Deviation : 3.5 kHz	— —
-Adjust- (Band center) For [Low band] version	3	• CH. : 1-20 • Receiving	1) Set the item [BPFT1 C] to "10." 2) Select the item [BPF T2 C], then push the [ENTER] key.	[BPFT1 C] "10"
-Adjust- (Band center) For [High band] version			[BPF T2 C]	(Automatic adjustment)
(Band high)	4	• CH. : 1-21 • Receiving	• Select the item [BPF C ALL], then push the [ENTER] key.	
			[BPF C ALL]	
			[BPF H ALL]	

6-4 RECEIVE ADJUSTMENT (continued)

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

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

ADJUSTMENT	ADJUSTMENT CONDITION	OPERATION	ADJUSTMENT ITEM/POINT	VALUE
S-METER -Preparation-	NOTE: "RECEIVE SENSITIVITY" MUST be adjusted before "S-METER." When "RECEIVE SENSITIVITY" is re-adjusted, "S-METER" MUST be re-adjusted too.			
	1	Connect an SSG to the RX antenna connector.	Set the SSG as; Frequency : 400.000 MHz [Low band] 450.00 MHz [High band] Modulation : 1 kHz Deviation : 3.5 kHz	—
-Adjust- (S3 level)	2	- CH. : 1-22 - Receiving	1) Set the SSG as; Level : +23 dB μ 2) Select the item [RSSI S3 Level] , then push the [ENTER] key to store the adjust value.	[RSSI S3 Level] (Automatic adjustment)
(S1 level)	3	- CH. : 1-22 - Receiving	1) Set the SSG as; Level : -7 dB μ 2) Select the item [RSSI S1 Level] , then push the [ENTER] key, to store the adjust value.	[RSSI S1 Level] (Automatic adjustment)
SQUELCH -Preparation-	1	—	Set the item [SQL Level] to "2."	[SQL Level] "2"
	2	Connect an SSG to the RX antenna connector.	Set the SSG as; Frequency : 400.000 MHz [Low band] 450.00 MHz [High band] Modulation : 1 kHz Deviation : 3.5 kHz Level : -14 dBμ	—
-Adjust-	2	- CH. : 1-23 - Receiving	1) Decrease the adjustment value [SQL] to close the squelch once, then increase the value to open the squelch. 2) Select the item [SQL] , then push the [ENTER] key to store the adjust value.	[SQL] (Automatic adjustment)

SECTION 7

PARTS LIST

[FRONT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
IC500	1130009121	S.IC S1D15206F00A200	B	69.4/35.9
IC501	1110005771	S.IC S-80942CNMC-G9CT2G	B	105.3/24
IC502	1140014250	S.IC uPD78F1153GK-GAK	B	101.3/38.7
IC503	1110005350	S.IC NJM2870F05-TE1	B	47.2/30.5
IC506	1140013200	S.IC CD4053BPWR	B	39.1/31.7
IC508	1130008561	S.IC TC75SS1F (TE85L,F)	B	143/18
IC509	1110006770	S.IC TDA8547TS/N	B	28.4/55.8
Q500	1590001050	S.TR DTC114TUA T106	B	148.4/41.4
Q501	1590001050	S.TR DTC114TUA T106	B	161.8/34.6
Q502	1590001050	S.TR DTC114TUA T106	B	161.8/41.4
Q503	1590001050	S.TR DTC114TUA T106	B	148.4/34.6
Q504	1590001050	S.TR DTC114TUA T106	B	91.4/45.6
Q506	1590001190	S.TR XP6501-(TX) .AB	B	32.9/48.1
Q508	1520000460	S.TR 2S81132 T100 R	B	36.9/52.6
Q510	1590001050	S.TR DTC114TUA T106	B	152.8/53.2
Q511	1590001050	S.TR DTC114TUA T106	B	166.2/53
Q513	1590001060	S.TR DTA114TUA T106	B	168.7/53
Q514	1590001060	S.TR DTA114TUA T106	B	160.1/49.6
Q515	1590001060	S.TR DTA114TUA T106	B	155.3/53.2
Q516	1590001060	S.TR DTA114TUA T106	B	145.3/49.9
Q517	1590001050	S.TR DTC114TUA T106	B	160.1/46.9
Q518	1590001050	S.TR DTC114TUA T106	B	145.3/47
D503	1790001260	S.DIO MA2S077-(TX)	B	112.3/33.9
D504	1790001250	S.DIO MA2S111-(TX)	B	95/45.8
D505	1790001450	S.DIO RB160L-40 TE-25	B	41.8/26.6
D506	1790001450	S.DIO RB160L-40 TE-25	B	63.2/6.6
D507	1790000950	S.ZEN MA8056-M (TX)	B	160.8/29.9
D508	1750000370	S.DIO DA221 TL	B	153.2/27.7
D509	1750000370	S.DIO DA221 TL	B	166.4/28.1
D510	1790001250	S.DIO MA2S111-(TX)	B	43.2/51.5
D511	1790001250	S.DIO MA2S111-(TX)	B	115.8/44.9
X501	6050012680	S.XTL CR-858 (SMD-49/18.432 MHz)	B	113.1/28.2
L500	6200002861	S.COL NLV25T-4R7J	B	106/17.9
L501	6200003640	S.COL MLF1608E 100K-T	B	161.5/17.9
L502	6200002861	S.COL NLV25T-4R7J	B	85.9/39.3
R500	7030003810	S.RES ERJ3GEYJ 125 V (1.2 M)	B	83.5/43.7
R501	7030003810	S.RES ERJ3GEYJ 125 V (1.2 M)	B	87.4/47.5
R506	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	157.7/36.3
R507	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	B	167.9/44.3
R508	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	167.9/37.7
R509	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	B	155.4/44.5
R510	7030005530	S.RES ERJ2GEJ 100 X (10)	B	106.8/30.5
R511	7030005160	S.RES ERJ2GEJ 105 X (1 M)	B	105.8/30.5
R512	7510001730	S.TMR ERTJOEP 473J	B	103.1/48.9
R513	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	102.2/49.8
R514	7030008010	S.RES ERJ2GEJ 123 X (12 k)	B	113.1/32.2
R515	7030008010	S.RES ERJ2GEJ 123 X (12 k)	B	112.3/35.9
R516	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	103.2/26.4
R517	7030008010	S.RES ERJ2GEJ 123 X (12 k)	B	110.3/33
R518	7410001140	S.ARY EXB28V104JX	B	106.9/47.1
R519	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	105.4/48.4
R520	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	96.1/30.7
R523	7030005710	S.RES ERJ2GEJ 121 X (120)	B	114.1/37.6
R524	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	104.4/48.4
R525	7030005710	S.RES ERJ2GEJ 121 X (120)	B	113.2/37.6
R526	7030005710	S.RES ERJ2GEJ 121 X (120)	B	112.3/37.6
R532	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	33.2/45.5
R533	7030009140	S.RES ERJ2GEJ 272 X (2.7 k)	B	31.2/47.7
R534	7030008290	S.RES ERJ2GEJ 183 X (18 k)	B	32.2/45.7
R536	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	158.7/30.8
R538	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	155.7/29.3
R539	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	B	27.6/51.1
R540	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	B	26.6/49.9
R541	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	139.1/31.9
R542	7030005080	S.RES ERJ2GEJ 823 X (82 k)	B	26.1/51.1
R543	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	137.3/31.5
R544	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	164.9/29.3
R545	7030004980	S.RES ERJ2GEJ 101 X (100)	B	140.3/19.9
R546	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	164.8/27.7
R547	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	155.7/27.7
R548	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	159.8/28
R549	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	B	32/51.3
R551	7210003050	VAR EVU-F2KFK3 B14 (10KB)	B	142.3/20.3
R552	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	144.6/20.1
R553	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	32.6/53.4
R554	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	161.1/19
R556	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	29.2/51.3
R557	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	B	169.1/51.1
R558	7030008370	S.RES ERJ2GEJ 561 X (560)	B	155.7/51
R559	7030008370	S.RES ERJ2GEJ 561 X (560)	B	139.4/17.1
R560	7030010040	S.RES ERJ2GEJ-JPW	B	86.2/43.7
R562	7030003720	S.RES ERJ3GEYJ 224 V (220 k)	B	88.2/44.9
R563	7030003720	S.RES ERJ3GEYJ 224 V (220 k)	B	153/19.8
R564	7030009320	S.RES ERJ2GEJ 477 X (4.7)	B	161.9/49.1
R566	7030008370	S.RES ERJ2GEJ 561 X (560)	B	148.3/49.9
R567	7030008370	S.RES ERJ2GEJ 561 X (560)	B	87.4/16.9
R568	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	103/24.8
R570	7030005220	S.RES ERJ2GEJ 223 X (22 k)	B	

[FRONT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
R571	7030005070	S.RES ERJ2GEJ 683 X (68 k)	B	45.8/51.5
R572	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	46.2/50.3
R573	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	108.3/33
R574	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	108.3/32.1
R575	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	34.7/24.6
R576	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	62.6/12.8
C500	4030016930	S.CER ECJ0EB1A104K	B	79.3/47.9
C501	4030016930	S.CER ECJ0EB1A104K	B	80.8/47.4
C502	4030016930	S.CER ECJ0EB1A104K	B	80.8/46.5
C503	4030016930	S.CER ECJ0EB1A104K	B	80.4/45.3
C504	4030016930	S.CER ECJ0EB1A104K	B	81.3/45.3
C505	4030017490	S.CER C1608 JB 1A 105K-T	B	80.9/41
C506	4030017460	S.CER ECJ0EB1E102K	B	83.9/39.8
C507	4030017490	S.CER C1608 JB 1A 105K-T	B	80.9/39.5
C508	4030017730	S.CER ECJ0EB1E471K	B	146.4/41.2
C509	4030017730	S.CER ECJ0EB1E471K	B	159.8/34.4
C510	4030017730	S.CER ECJ0EB1E471K	B	159.9/41.2
C511	4030017730	S.CER ECJ0EB1E471K	B	146.4/34.4
C512	4030017030	S.CER ECJ0EB1A273K	B	104.7/21.7
C513	4030017630	S.CER ECJ0EC1H120J	B	106.4/29.3
C514	4030017420	S.CER ECJ0EC1H470J	B	157.7/44.5
C515	4030016790	S.CER ECJ0EB1C103K	B	103.5/50.2
C516	4030017580	S.CER ECJ0EC1H060C	B	113.1/31.3
C517	4030016930	S.CER ECJ0EB1A104K	B	102.2/50.7
C518	4030016790	S.CER ECJ0EB1C103K	B	113.3/35.1
C519	4030017640	S.CER ECJ0EC1H150J	B	111.3/31.8
C520	4030016930	S.CER ECJ0EB1A104K	B	105.1/27.1
C521	4030018900	S.CER ECJ0EB0J474K	B	104.9/30
C522	4550006480	S.TAN TEESVA 1C 475M8R	B	46.7/33.2
C523	4030017330	S.CER ECJ0EF1C104Z	B	44.9/31
C524	4030016790	S.CER ECJ0EB1C103K	B	49.9/29.5
C525	4550006250	S.TAN TEESVA 1A 106M8R	B	49/27.7
C526	4030016930	S.CER ECJ0EB1A104K	B	48.9/26.1
C527	4030016930	S.CER ECJ0EB1A104K	B	34.3/30
C530	4030017460	S.CER ECJ0EB1E102K	B	34.5/55.4
C531	4550006250	S.TAN TEESVA 1A 106M8R	B	106.6/20.2
C532	4030017460	S.CER ECJ0EB1E102K	B	31.3/45.7
C533	4030017460	S.CER ECJ0EB1E102K	B	45.3/27
C534	4030016930	S.CER ECJ0EB1A104K	B	62.1/14.2
C535	4030016930	S.CER ECJ0EB1A104K	B	30.7/49
C536	4030017460	S.CER ECJ0EB1E102K	B	161/28.5
C537	4030017460	S.CER ECJ0EB1E102K	B	33.6/53.4
C538	4030018860	S.CER ECJ0EB0J105K	B	26.6/49
C539	4030017420	S.CER ECJ0EC1H470J	B	154.8/27.7
C540	4510008590	S.ELE EEE1AA101SP	B	36.9/59.4
C541	4030017330	S.CER ECJ0EF1C104Z	B	150.1/20
C542	4030017460	S.CER ECJ0EB1E102K	B	139.3/19.9
C544	4550006250	S.TAN TEESVA 1A 106M8R	B	29.7/60.8
C545	4030017420	S.CER ECJ0EC1H470J	B	168.1/28.1
C546	4030017420	S.CER ECJ0EC1H470J	B	137.3/32.4
C547	4030017420	S.CER ECJ0EC1H470J	B	134.2/32.4
C548	4030017460	S.CER ECJ0EB1E102K	B	161/27.5
C549	4030017460	S.CER ECJ0EB1E102K	B	44.1/47.4
C551	4030017420	S.CER ECJ0EC1H470J	B	158.1/19.3
C553	4030017420	S.CER ECJ0EC1H470J	B	140.6/17.6
C555	4030018860	S.CER ECJ0EB0J105K	B	148.5/17.9
C556	4030016790	S.CER ECJ0EB1C103K	B	143.1/23.6
C558	4550006480	S.TAN TEESVA 1C 475M8R	B	143.5/22
C559	4030017730	S.CER ECJ0EB1E471K	B	166.3/51.1
C560	4030017730	S.CER ECJ0EB1E471K	B	153.1/51.1
C561	4030017730	S.CER ECJ0EB1E471K	B	161.9/46.9
C562	4030017730	S.CER ECJ0EB1E471K	B	147.4/46.6
C563	4030016930	S.CER ECJ0EB1A104K	B	105.1/28
C564	4030016930	S.CER ECJ0EB1A104K	B	103.2/28
C565	4030016930	S.CER ECJ0EB1A104K	B	44/29.9
C566	4030017460	S.CER ECJ0EB1E102K	B	42.8/49.5
C567	4030016930	S.CER ECJ0EB1A104K	B	42.8/50.4
C568	4030017460	S.CER ECJ0EB1E102K	B	67.3/6.6
C569	4550006250	S.TAN TEESVA 1A 106M8R	B	89.6/40.7
C573	4030016930	S.CER ECJ0EB1A104K	B	34.7/23.7
C574	4030016930	S.CER ECJ0EB1A104K	B	62.6/11.9
J501	6510019121	S.CNR S8B-PH-SM4-TB (LF) (SN)	B	26.9/27.5
J502	6510019121	S.CNR S8B-PH-SM4-TB (LF) (SN)	B	52.9/15.1
J503	6450002210	CNR 3017-8821 <KIN>	B	
J504	6510014961	S.CNR B2B-ZR-SM4-TF (LF) (SN)	B	18.4/57
J505	6510019421	S.CNR B8B-ZR-SM4-TF (LF) (SN)	B	89.5/20.4
DS500	5030002811	LCD L4-0013TVY-2		
DS501	50400002710	LED EMPG3338S		
DS502	50400002720	LED EMVR3338S		
DS503	50400002710	LED EMPG3338S		
DS504	50400002720	LED EMVR3338S		
DS505	50400002310	S.LED SML-311YTT86	T	111.2/43.2
DS506	50400002310	S.LED SML-311YTT86	T	101.3/43.2
DS507	50400002310	S.LED SML-311YTT86	T	91.3/43.2
DS508	50400002310	S.LED SML-311YTT86	T	81.2/43.1
DS509	50400002310	S.LED SML-311YTT86	T	71.3/43.2
DS510	50400002310	S.LED SML-311YTT86	T	61.3/43.2
DS511	5040002150	LED VRPG3349S-734		
DS512	5040002150	LED VRPG3349S-734		
S506	2250000511	ECR RH70N1037E20-13F-2781		

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

[FRONT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
SP501	2510001221	SP C052SB500-14		
W501	8900011800	CBL OPC-1199		
W502	8900017540	CBL OPC-1785		
EP501	8930065150	LCT SRCN-2781-SP-N-W		
EP503	6910019600	SCR LM-5		
EP504	6910019610	SCR LM-7 (SPACER)		

[MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1110005330	S.IC NJM12904V-TE1	T	58.1/71.4
IC2	1110007290	S.IC AK2330P-L	T	58.7/56.1
IC3	1130010100	S.IC LMX2352TMX/NOPB	B	120.2/43.9
IC4	1130010100	S.IC LMX2352TMX/NOPB	B	28/78.8
IC5	1110003491	S.IC TA31136FNG (D,EL)	B	70.4/82.5
IC7	1110007280	S.IC NJM2716F-TE1	B	56.8/46.4
IC8	1130012910	S.IC AK4554VTP-E2/P	B	36.2/59.9
IC9	1190002080	S.IC AD7476ARTZ-500RL7	B	49.6/46.4
IC10	1130013040	S.IC TC7WBD125AFK (T5L,F)	B	46.6/49.2
IC11	1110006230	S.IC NJM2711F-TE1	B	53.1/35
IC12	1140013290	S.IC TMS320VC5509AZHH	B	33.3/37.8
IC13	1180002590	S.REG XC6204B332MR	T	80.9/21.3
IC14	1180003270	S.REG R1114Q161D-TR-F	T	84.4/21.4
IC15	1180002590	S.REG XC6204B332MR	T	87.8/21.3
IC17	1190001340	S.IC M62334FP 600C	T	67.3/61.7
IC18	1110005771	S.IC S-80942CNMC-G9CT2G	T	41.2/52.8
IC20	1140013520	S.IC HD64F2506FC26DV	T	33.5/37.6
IC21	1140012950	S.IC 24LC512T-I/SM	T	59.1/21.8
IC22	1150002092	IC RA30H4047M-121 [FR6100]		
	1150002211	IC RA55H4047M-121		
		[USA-01], [EXP-01]		
	1150002221	IC RA55H4452M-121		
		[USA-02], [EXP-02]		
IC23	1110002751	S.IC TA75S01F (TE85R,F)	T	139.3/125.6
IC25	1130008561	S.IC TC75S51F (TE85L,F)	B	29/16.3
IC26	1120003070	S.IC MAX3232EIPWR	T	42.7/70
IC27	1180001251	S.IC TA7808F (TE16L,Q)	T	116.6/84.1
IC28	1110003091	IC LA4425A-E		
IC29	1110002751	S.IC TA75S01F (TE85R,F)	T	12/123.1
IC30	1110003390	S.IC AN8005M-(E1)	T	114.1/91.8
IC31	1130011760	S.IC CD4094BPWR	T	8.1/45.2
IC32	1130013360	S.IC AT25F2048N-10SU-2.7SL383	B	8.9/36.1
IC34	1110005340	S.IC NJM12902V-TE1	B	12.2/58.2
IC35	1140013200	S.IC CD4053BPWR	B	20.6/58.2
IC36	1110005330	S.IC NJM12904V-TE1	B	27.8/55.4
IC37	1120002830	S.IC NJM2125F-TE1	T	56.6/66.7
IC38	1110006380	S.IC LM2904PWR	T	114.1/23.8
IC39	1180001071	S.IC TA7805F (TE16L,Q)	T	101.2/24.3
IC40	1110005330	S.IC NJM12904V-TE1	B	50.6/57.2
IC41	1180001251	S.IC TA7808F (TE16L,Q)	B	132/16.7
Q1	1590003230	S.TR UNR9113J-(TX)	B	53.4/79.7
Q2	1530002851	S.TR 2SC4116-BL (TE85R,F)	B	34.9/77.7
Q3	1560001360	S.FET 2SK3019 TL	B	66.4/76.6
Q4	1560000541	S.FET 2SK880-Y (T5RICOM,F)	B	88.8/41.5
Q5	1560000541	S.FET 2SK880-Y (T5RICOM,F)	B	33.3/107.5
Q6	1560000541	S.FET 2SK880-Y (T5RICOM,F)	B	29.6/101.3
Q7	1530002601	S.TR 2SC4215-O (TE85R,F)	B	72.9/92.5
Q8	1560000541	S.FET 2SK880-Y (T5RICOM,F)	B	92.7/47.7
Q9	1560001360	S.FET 2SK3019 TL	B	39.5/104.5
Q10	1530002851	S.TR 2SC4116-BL (TE85R,F)	B	88.8/44.6
Q11	1530002851	S.TR 2SC4116-BL (TE85R,F)	B	29.6/104.6
Q12	1590003230	S.TR UNR9113J-(TX)	B	65.6/101.6
Q13	1530002851	S.TR 2SC4116-BL (TE85R,F)	B	88.8/47.7
Q14	1530002851	S.TR 2SC4116-BL (TE85R,F)	B	29.6/107.5
Q15	1530002851	S.TR 2SC4116-BL (TE85R,F)	B	92.7/44.6
Q16	1530002851	S.TR 2SC4116-BL (TE85R,F)	B	33.3/104.5
Q19	1530002601	S.TR 2SC4215-O (TE85R,F)	B	63.2/106.8
Q20	1530002920	S.TR 2SC4226-T1 R25	B	38.8/123.1
Q21	1530002920	S.TR 2SC4226-T1 R25	B	39.6/114.5
Q22	1530002920	S.TR 2SC4226-T1 R25	B	94.6/64.3
Q23	1530002920	S.TR 2SC4226-T1 R25	B	95.2/55.4
Q24	1530003311	S.TR 2SC5107-O (TE85R,F)	B	100.5/58.6
Q25	1530003311	S.TR 2SC5107-O (TE85R,F)	B	44.9/116.2
Q26	1590001400	S.TR XP1214 (TX)	B	40.5/117.8
Q27	1590001400	S.TR XP1214 (TX)	B	96/59.6
Q28	1590003290	S.TR UNR9213J-(TX)	B	93.3/59.6
Q29	1590003290	S.TR UNR9213J-(TX)	T	57.2/41.9
Q30	1590003290	S.TR UNR9213J-(TX)	B	37.8/117.8
Q31	1590003230	S.TR UNR9113J-(TX)	T	57.2/39.8
Q32	1530003980	S.TR 2SC5700WB-TR-E	B	46.5/109.1
Q33	1530003980	S.TR 2SC5700WB-TR-E	B	102.1/53.4
Q34	1530003311	S.TR 2SC5107-O (TE85R,F)	B	46.2/123.1
Q35	1530003311	S.TR 2SC5107-O (TE85R,F)	B	101.9/64.4
Q36	1580000731	S.FET 3SK293 (TE85L,F)	B	47.3/136.1
Q37	1530003311	S.TR 2SC5107-O (TE85R,F)	B	132.5/84.5
Q38	1530002680	S.TR 2SC3357-T1	B	138.1/88.8
Q39	1560000841	S.FET 2SK1829 (TE85R,F)	B	53.2/140.8
Q40	1590001190	S.TR XP6501-(TX) .AB	T	101.6/87.4
Q41	1520000460	S.TR 2SB1132 T100 R	T	101.6/82.8
Q42	1590003290	S.TR UNR9213J-(TX)	T	13.3/67.6
Q43	1590003290	S.TR UNR9213J-(TX)	T	138.8/122.9
Q44	1590003290	S.TR UNR9213J-(TX)	T	122.8/79.2
Q45	1540000550	S.TR 2SD1664 T100Q	T	117/76.3
Q46	1530002851	S.TR 2SC4116-BL (TE85R,F)	T	137.4/120.3
Q48	1510000920	S.TR 2SA1577 T106 Q	T	101.5/77.8
Q49	1590003290	S.TR UNR9213J-(TX)	T	102.2/73.7
Q52	1590003290	S.TR UNR9213J-(TX)	T	10.9/131.6
Q53	1590003290	S.TR UNR9213J-(TX)	T	10.9/129.6
Q56	1590003321	S.FET TPC6103 (TE85L,F)	T	7.6/132.6
Q57	1550000100	S.FET 2SJ377 (TE16L1,NQ)	T	125.2/99.6
Q58	1590003290	S.TR UNR9213J-(TX)	T	130.2/102.1
Q59	1590000990	S.TR DTC363EK T146	T	7.6/127.6
Q61	1530002851	S.TR 2SC4116-BL (TE85R,F)	T	6.8/118.4
Q62	1540000441	S.TR 2SD1619T-TD-E	T	118.4/18.5
Q63	1560000990	S.FET PMBFJ310	B	66.3/110
Q64	1560000990	S.FET PMBFJ310	B	63.3/110
Q65	1530003311	S.TR 2SC5107-O (TE85R,F)	B	59.6/123.7
Q66	1590003290	S.TR UNR9213J-(TX)	B	94.9/4.7
Q67	1590003290	S.TR UNR9213J-(TX)	B	124.9/4.7
Q68	1590003290	S.TR UNR9213J-(TX)	B	109.9/4.7
Q69	1590003290	S.TR UNR9213J-(TX)	T	9.5/53.3
Q70	1590003230	S.TR UNR9113J-(TX)	T	9.5/51

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

[MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
D1	1750001070	S.DIO DAN235ETL	B	57.3/78.6
D2	1750001070	S.DIO DAN235ETL	B	50/79.7
D3	1790001621	S.DIO 1SV308 (TPL3,F)	B	70.3/93.4
D4	1790001621	S.DIO 1SV308 (TPL3,F)	B	67.8/93.4
D7	1750001150	S.VCP HVC383BTRF-E	B	30.8/122.3
D8	1750001150	S.VCP HVC383BTRF-E	B	30.6/112.7
D9	1750001150	S.VCP HVC383BTRF-E	B	85.6/63.5
D10	1750001150	S.VCP HVC383BTRF-E	B	85.7/53.3
D11	1790001621	S.DIO 1SV308 (TPL3,F)	B	63.5/103.1
D12	1790001621	S.DIO 1SV308 (TPL3,F)	B	62.7/101.1
D13	1750000711	S.VCP HVC350BTRF-E	B	87.3/66.8
D14	1750000711	S.VCP HVC350BTRF-E	B	87.1/55.4
D15	1750000711	S.VCP HVC350BTRF-E	B	32.6/125.4
D16	1750000711	S.VCP HVC350BTRF-E	B	32/114.5
D17	1720000570	S.VCP MA368 (TX)	B	94.6/66.6
D18	1720000570	S.VCP MA368 (TX)	B	91.4/57.7
D19	1750000520	S.DIO DAN222TL	T	59.6/39.8
D20	1790001260	S.DIO MA25077-(TX)	T	38.9/57.8
D21	1750000711	S.VCP HVC350BTRF-E	B	66.1/135.8
D22	1750000711	S.VCP HVC350BTRF-E	B	62.9/135.8
D24	1750000711	S.VCP HVC350BTRF-E	B	56.1/135.9
D27	1790001250	S.DIO MA25111-(TX)	B	57.2/140.4
D28	1750000711	S.VCP HVC350BTRF-E	B	35.9/134.4
D29	1750000711	S.VCP HVC350BTRF-E	B	37.1/134.4
D31	1750000711	S.VCP HVC350BTRF-E	B	32.4/136.5
D32	1750000711	S.VCP HVC350BTRF-E	B	32.4/135.3
D33	1790001240	S.DIO MA25728-(TX)	B	37.8/144.2
D34	1790001260	S.DIO MA25077-(TX)	B	85.4/137.8
D38	1750001360	S.DIO L709CER (9401)	B	87.8/135.6
D40	1750000370	S.DIO DA221 TL	T	112.6/77
D44	1710001061	DIO L407CDB		
D45	1790001211	S.DIO 1S375-TL-E	B	96.3/138.1
D46	1750000520	S.DIO DAN222TL	T	13.3/131.1
D47	1750000520	S.DIO DAN222TL	T	13.2/129.1
D48	1790000660	S.DIO MA728 (TX)	B	121.1/142.5
D49	1790000660	S.DIO MA728 (TX)	B	140.6/133
D51	1790001250	S.DIO MA25111-(TX)	T	10.5/127.1
D53	1790001810	S.VSR AVR-M1005C080MTABB	T	32.5/11.5
D55	1790001810	S.VSR AVR-M1005C080MTABB	T	30.5/11.5
D56	1790001810	S.VSR AVR-M1005C080MTABB	B	33.2/22.1
D59	1790000700	DIO DSA3A1		
D61	1160000070	S.DIO DAN202K T146	T	118.4/14.3
D62	1750000431	S.DIO HSB88WSTR-E	B	68.3/123.3
D63	1790001250	S.DIO MA25111-(TX)	B	34.1/20.7
D64	1750000370	S.DIO DA221 TL	T	63.2/93.9
D65	1750000370	S.DIO DA221 TL	T	65.2/93.9
D66	1750000370	S.DIO DA221 TL	T	67.2/93.9
D67	1750000370	S.DIO DA221 TL	T	62.5/105.6
D68	1750000370	S.DIO DA221 TL	T	60.5/104.7
D69	1750000370	S.DIO DA221 TL	T	69.2/93.9
D70	1750000370	S.DIO DA221 TL	T	71.2/93.9
D71	1750000370	S.DIO DA221 TL	T	69.4/109.5
D72	1750000370	S.DIO DA221 TL	T	71.5/109.5
D73	1750000370	S.DIO DA221 TL	T	73.5/109.5
D74	1750000370	S.DIO DA221 TL	T	75.6/109.5
D75	1790001250	S.DIO MA25111-(TX)	B	41/38.6
D76	1790001250	S.DIO MA25111-(TX)	B	26.4/41.3
D77	1790001250	S.DIO MA25111-(TX)	B	49.2/29.9
D78	1730002360	S.ZEN MA8062-M (TX)	B	52.3/29.9
F11	2020001520	CER CFWLA450KFFA-B0		
F12	2020001460	CER CFWLA450KHFA-B0		
F13	2030000500	S.MLH FL-401 (46.35 MHz)	B	72/101
F14	2030000670	S.MLH FL-420 (46.35 MHz)	B	63.4/91.1
F15	2040001440	S.LC NFE31PT152Z1E9L	T	114.2/110.3
F16	2040001440	S.LC NFE31PT152Z1E9L	T	114.2/113.4
F17	2040001440	S.LC NFE31PT152Z1E9L	T	114.2/116.5
X1	6050012380	S.XTL CR-826 (15.3 MHz)	B	128.6/45.3
X2	6050012380	S.XTL CR-826 (15.3 MHz)	B	35.6/72.3
X3	6070000300	S.DCR JTBM450CX24	B	63.5/83.5
X4	6050012350	S.XTL CR-817 (12.288 MHz)	B	52.8/38.2
X5	6050012680	S.XTL CR-858 (SMD-49/18.432 MHz)	T	46.9/52.7
L1	6200004660	S.COL MLF1608A 1R8K-T	B	115.6/39.2
L2	6200004660	S.COL MLF1608A 1R8K-T	B	23.6/82.4
L3	6200004480	S.COL MLF1608D R82K-T	B	39.4/79.3
L4	6200003540	S.COL MLF1608D R22K-T	B	36.9/76.9
L5	6200005671	S.COL ELJRE 12NGFA	B	102.7/46.7
L6	6200005671	S.COL ELJRE 12NGFA	B	44.6/99.3
L8	6200004741	S.COL NLV25T-1R2J	B	28.5/121.7
L9	6200004741	S.COL NLV25T-1R2J	B	28.5/124.9
L10	6200004741	S.COL NLV25T-1R2J	B	28.5/114.1
L11	6200004741	S.COL NLV25T-1R2J	B	83.7/63.1
L12	6200004741	S.COL NLV25T-1R2J	B	83.7/54.6
L13	6200004741	S.COL NLV25T-1R2J	B	30.6/117.2
L14	6200004741	S.COL NLV25T-1R2J	B	84.2/66.2
L15	6200004741	S.COL NLV25T-1R2J	B	84.2/57.7
L18	6200009260	S.COL C3328A-5N0J-A	B	88.7/63.1
L19	6200009260	S.COL C3328A-5N0J-A	B	89.8/54
L20	6200009390	S.COL C3328A-8N0J-A	B	33.2/121.7
L21	6200009390	S.COL C3328A-8N0J-A	B	34.7/113.1
L22	6200003550	S.COL MLF1608A 4R7K-T	B	73.4/109.9
L23	6200002861	S.COL NLV25T-4R7J	B	57.6/108.9
L24	6200010740	S.COL C2520C-R27G-A	B	70/109.1
L25	6200004741	S.COL NLV25T-1R2J	B	97.1/64.6
L26	6200004741	S.COL NLV25T-1R2J	B	98.1/53.9
L27	6130002961	S.COL #617DB-1327=P3	B	68.3/117
L28	6200005711	S.COL ELJRE 27NGFA	B	62.3/123.6
L29	6200005721	S.COL ELJRE 33NGFA	B	102.6/58.6
L30	6200005721	S.COL ELJRE 33NGFA	B	46.9/116.2

[MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
L31	6200002861	S.COL NLV25T-4R7J	T	91.1/19.9
L32	6130002961	S.COL #617DB-1327=P3	B	68.3/128.7
L33	6200005671	S.COL ELJRE 12NGFA	B	47.3/107.1
L34	6200005711	S.COL ELJRE 27NGFA	B	61.1/117.5
L35	6200005671	S.COL ELJRE 12NGFA	B	102.7/51.6
L36	6200005711	S.COL ELJRE 27NGFA	B	44.3/123.1
L37	6200005711	S.COL ELJRE 27NGFA	B	61.1/120.1
L38	6200005711	S.COL ELJRE 27NGFA	B	100/64.4
L39	6200009320	S.COL C3328A-12NG-A [USA-01]	B	70.8/137.3
	6200010280	S.COL C3328A-14NG-A [EXP-01], [USA-02], [EXP-02], [FR6100] [USA-01]	B	70.8/137.3
L40	6200009320	S.COL C3328A-12NG-A [USA-01]	B	59.5/135.7
	6200010280	S.COL C3328A-14NG-A [EXP-01], [USA-02], [EXP-02], [FR6100] [USA-01]	B	59.5/135.7
L41	6200009320	S.COL C3328A-12NG-A [USA-01]	B	51.4/136.3
	6200010280	S.COL C3328A-14NG-A [EXP-01], [USA-02], [EXP-02], [FR6100]	B	51.4/136.3
L42	6200005711	S.COL ELJRE 27NGFA	B	134.7/83.8
L43	6200005711	S.COL ELJRE 27NGFA	B	142/87.1
L44	6200010290	S.COL C6328A-22NG-A	B	41.9/136.2
L45	6200005641	S.COL ELJRE 6N8ZF-A	B	142.7/90.6
L46	6200005691	S.COL ELJRE 18NGFA	B	142/94.6
L47	6200010290	S.COL C6328A-22NG-A	B	34.8/140.3
L48	6200010100	S.COL C2012C-33NG-A	B	39.7/142.2
L49	6200010040	S.COL AS100340-10N	B	95.5/119.7
L50	6200005691	S.COL ELJRE 18NGFA	B	88/137.7
L52	6200010420	S.COL FHW1210HC 1R0JGT	B	86.6/122.3
L53	6200010150	S.COL AS080340-15N	B	92.5/134.3
L54	6200010150	S.COL AS080340-15N	B	99.7/133.8
L55	6200010150	S.COL AS080340-15N	B	107.5/135.8
L56	6200010150	S.COL AS080340-15N	B	114.4/138.9
L57	6200010150	S.COL AS080340-15N	B	144.6/142.1
L58	6200002861	S.COL NLV25T-4R7J	T	55.4/37.5
L59	6200010420	S.COL FHW1210HC 1R0JGT	B	147.1/146.2
L60	6200010420	S.COL FHW1210HC 1R0JGT	B	24.5/145
L61	6200002961	S.COL NLV32T-4R7J	T	118.4/23.8
L65	6200004741	S.COL NLV25T-1R2J	B	41.3/123.3
L66	6200004741	S.COL NLV25T-1R2J	B	42.8/113.5
R1	7030005700	S.RES ERJ2GEJ 274 X (270 k)	T	54.5/63.5
R2	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	59/61.8
R3	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	62.4/69.6
R4	7030007340	S.RES ERJ2GEJ 153 X (15 k)	B	57.3/80.1
R6	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	T	9.5/57.1
R7	7030010040	S.RES ERJ2GEJ-JPV	T	61.6/66.3
R8	7030005160	S.RES ERJ2GEJ 105 X (1 M)	T	24.9/70.4
R9	7030005160	S.RES ERJ2GEJ 105 X (1 M)	T	25.8/70.4
R10	7030005160	S.RES ERJ2GEJ 105 X (1 M)	T	26.7/70.4
R12	7510001730	S.TMR ERTJOEP 473J	B	129.1/49.3
R13	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	130.8/49.3
R15	7030007340	S.RES ERJ2GEJ 153 X (15 k)	B	54.5/78.3
R17	7030004980	S.RES ERJ2GEJ 101 X (100)	T	19.8/68.8
R18	7030007340	S.RES ERJ2GEJ 153 X (15 k)	B	55.3/79.2
R20	7030008300	S.RES ERJ2GEJ 184 X (180 k)	T	56.2/63.5
R22	7410001130	S.ARY EXB28V102JX	B	122.6/39
R23	7410001130	S.ARY EXB28V102JX	B	23.1/76.3
R25	7030004970	S.RES ERJ2GEJ 470 X (47)	B	65.3/79.4
R26	7030010040	S.RES ERJ2GEJ-JPV	T	57.8/64.5
R27	7030005120	S.RES ERJ2GEJ 102 X (1 k)	T	57.8/51
R29	7030007570	S.RES ERJ2GEJ 122 X (1.2 k)	B	35.8/75.5
R30	7030007340	S.RES ERJ2GEJ 153 X (15 k)	B	52.8/81.1
R32	7030007340	S.RES ERJ2GEJ 153 X (15 k)	B	51.2/78.3
R33	7030007340	S.RES ERJ2GEJ 153 X (15 k)	B	48.4/78.2
R34	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	27.1/68.1
R35	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	28/68.1
R36	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	28.9/68.1
R38	7030005230	S.RES ERJ2GEJ 334 X (330 k)	T	27.6/70.4
R39	7030005230	S.RES ERJ2GEJ 334 X (330 k)	T	28.6/70.4
R40	7030005230	S.RES ERJ2GEJ 334 X (330 k)	T	29.5/70.4
R41	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	68.2/78.2
R42	7030007060	S.RES ERJ2GEJ 684X (680 k)	B	34.6/75.9
R43	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	62.8/77.3
R44	7030005030	S.RES ERJ2GEJ 152 X (1.5 k)	B	71.4/78.2
R45	7030004970	S.RES ERJ2GEJ 470 X (47)	B	64.6/75.5
R46	7030005000	S.RES ERJ2GEJ 471 X (470)	T	52.7/57.1
R47	7030005290	S.RES ERJ2GEJ 682 X (6.8 k)	B	64.6/76.4
R48	7030005030	S.RES ERJ2GEJ 152 X (1.5 k)	B	62.8/76.4
R49	7030010040	S.RES ERJ2GEJ-JPV	T	55.2/57
R52	7030004980	S.RES ERJ2GEJ 101 X (100)	B	34.1/56.4
R53	7030005210	S.RES ERJ2GEJ 822 X (8.2 k)	B	16.8/57.6
R54	7030005000	S.RES ERJ2GEJ 471 X (470)	B	19.4/64.3
R56	7030004970	S.RES ERJ2GEJ 470 X (47)	B	121.9/50.4
R57	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	B	62.8/75.5
R58	7030008290	S.RES ERJ2GEJ 183 X (18 k)	B	56.5/49
R59	7030008290	S.RES ERJ2GEJ 183 X (18 k)	B	57.4/49
R60	7030005000	S.RES ERJ2GEJ 471 X (470)	B	33.1/75.2
R62	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	18.5/62.5
R63	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	55.5/60
R65	7030005000	S.RES ERJ2GEJ 471 X (470)	B	125.1/47.3
R66	7030004980	S.RES ERJ2GEJ 101 X (100)	B	56.5/50.6
R68	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	B	67.5/86.7
R69	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	32.7/83
R71	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	31/62.6
R72	7030004980	S.RES ERJ2GEJ 101 X (100)	B	57.6/44.2
R75	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	39.9/71.1
R76	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	91/41.5
R77	7030005580	S.RES ERJ2GEJ 560 X (56)	B	119.7/48.8
R78	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	29.6/99.3
R79	7030005580	S.RES ERJ2GEJ 560 X (56)	B	32.7/79.5
R80	7030004970	S.RES ERJ2GEJ 470 X (47)	B	23.5/41.1
R81	7030007250	S.RES ERJ2GEJ 220 X (22)	B	49.9/50.5
R82	7030008400	S.RES ERJ2GEJ 182 X (1.8 k)	B	56/44.2
R84	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	95.4/45.4

[MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
R85	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	36.9/105.6
R87	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	73.7/81.1
R88	7030005530	S.RES ERJ2GEJ 100 X (10)	B	39/71.1
R89	7030008400	S.RES ERJ2GEJ 182 X (1.8 k)	B	67.1/83.2
R90	7030008010	S.RES ERJ2GEJ 123 X (12 k)	T	54.5/73.3
R91	7030007570	S.RES ERJ2GEJ 122 X (1.2 k)	B	94.5/45.4
R92	7030005290	S.RES ERJ2GEJ 682 X (6.8 k)	B	86.7/41.5
R93	7030007570	S.RES ERJ2GEJ 122 X (1.2 k)	B	35.1/105.6
R94	7030005290	S.RES ERJ2GEJ 682 X (6.8 k)	B	28/98.3
R97	7410001170	S.ARY EXB28V470JX	B	42.9/49.9
R98	7030005530	S.RES ERJ2GEJ 100 X (10)	B	70.7/90.4
R99	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	70.7/91.3
R100	7030005600	S.RES ERJ2GEJ 273 X (27 k)	B	69.1/92.3
R101	7030004980	S.RES ERJ2GEJ 101 X (100)	B	86.7/43.7
R102	7030004980	S.RES ERJ2GEJ 101 X (100)	B	31.5/105.6
R103	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27.8/103.9
R104	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	86.7/45.4
R105	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	31.5/109
R106	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	27.8/105.6
R107	7030004980	S.RES ERJ2GEJ 101 X (100)	B	90.8/45.4
R108	7030005030	S.RES ERJ2GEJ 152 X (1.5 k)	B	90.8/43.7
R109	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	65.7/100.1
R110	7030005810	S.RES RR0510P-152-D (1.5 k)	B	31.5/103.9
R111	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	37.8/105.6
R112	7030005220	S.RES ERJ2GEJ 223 X (22 k)	B	86.7/47.1
R113	7030005220	S.RES ERJ2GEJ 223 X (22 k)	B	27.8/107.3
R114	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	B	69.4/94.8
R115	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	B	66.8/96.2
R116	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	90.8/48.8
R117	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	90.8/47.1
R118	7030007280	S.RES ERJ2GEJ 331 X (330)	B	72.8/94.8
R119	7030007270	S.RES ERJ2GEJ 151 X (150)	B	67.2/90
R120	7030005800	S.RES RR0510P-102-D (1 k)	B	31.5/107.3
R121	7030009820	S.RES RR0510P-681-D (680)	B	26.2/109
R122	7030004970	S.RES ERJ2GEJ 470 X (47)	B	56.6/33.9
R123	7030004970	S.RES ERJ2GEJ 470 X (47)	B	49.5/38.5
R124	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	55.3/37.3
R125	7030007280	S.RES ERJ2GEJ 331 X (330)	B	82.6/51
R126	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	94.5/43.7
R127	7030005700	S.RES ERJ2GEJ 274 X (270 k)	T	61.2/51
R128	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	35.1/103.9
R129	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	55.3/35.1
R130	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	56.2/36.7
R131	7030004980	S.RES ERJ2GEJ 101 X (100)	B	54.2/32.4
R132	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	50.8/34.9
R133	7030007280	S.RES ERJ2GEJ 331 X (330)	B	67.5/104.4
R134	7030007270	S.RES ERJ2GEJ 151 X (150)	B	62.7/97.1
R136	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	81.7/65.3
R137	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	81.7/56.8
R140	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	B	63.8/101.1
R142	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	B	65.7/103.1
R143	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	48.6/38.5
R144	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	48.6/36.8
R145	7030010040	S.RES ERJ2GEJ-JPW	B	47.3/37.3
R146	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	97.3/47.1
R147	7030005290	S.RES ERJ2GEJ 682 X (6.8 k)	B	98.2/41.7
R148	7030004980	S.RES ERJ2GEJ 101 X (100)	B	59.3/106.8
R149	7030008290	S.RES ERJ2GEJ 183 X (18 k)	B	97.3/48.8
R150	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	91.5/66.6
R151	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	88.9/58.2
R152	7030005070	S.RES ERJ2GEJ 683 X (68 k)	B	65.2/107
R153	7030005000	S.RES ERJ2GEJ 471 X (470)	B	61.4/104.4
R154	7030006020	S.RES RR0510P-682-D (6.8 k)	B	36.8/121.9
R155	7030006020	S.RES RR0510P-682-D (6.8 k)	B	36.5/120.7
R156	7030006020	S.RES RR0510P-682-D (6.8 k)	B	37.4/112.2
R157	7030005530	S.RES ERJ2GEJ 100 X (10)	B	92.4/66.6
R158	7030005530	S.RES ERJ2GEJ 100 X (10)	B	88.9/57.2
R159	7030005530	S.RES ERJ2GEJ 100 X (10)	B	65.2/106.1
R160	7030010040	S.RES ERJ2GEJ-JPW	B	36.8/123.7
R161	7030006020	S.RES RR0510P-682-D (6.8 k)	B	37.6/113.5
R162	7030010040	S.RES ERJ2GEJ-JPW	B	37.6/115.3
R163	7030006020	S.RES RR0510P-682-D (6.8 k)	B	92.4/62
R164	7030006020	S.RES RR0510P-682-D (6.8 k)	B	92.7/52.9
R165	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	B	92.4/65.2
R166	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	B	93.1/56.3
R167	7030007250	S.RES ERJ2GEJ 220 X (22)	B	58.3/111.1
R168	7030006020	S.RES RR0510P-682-D (6.8 k)	B	92.4/63.4
R169	7030006020	S.RES RR0510P-682-D (6.8 k)	B	93.1/54.5
R171	7030011920	S.RES RR0510P-561-D (560)	B	41/120.7
R172	7030009820	S.RES RR0510P-681-D (680)	B	97/62
R173	7030009820	S.RES RR0510P-681-D (680)	B	97/56.5
R174	7030009820	S.RES RR0510P-681-D (680) [USA-01]	B	41.4/115.7
	7030011180	S.RES RR0510P-391-D (390) [EXP-01], [USA-02], [EXP-02], [FR6100]	B	41.4/115.7
R175	7030005530	S.RES ERJ2GEJ 100 X (10)	B	73.6/108.8
R176	7030005310	S.RES ERJ2GEJ 124 X (120 k)	B	100.5/56.8
R177	7030005310	S.RES ERJ2GEJ 124 X (120 k)	B	44.9/114.4
R178	7030004980	S.RES ERJ2GEJ 101 X (100)	B	100.5/55.9
R179	7030004980	S.RES ERJ2GEJ 101 X (100)	B	44.9/113.5
R180	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	36/109
R181	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	95.4/48.8
R182	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	B	68.5/107
R185	7030010040	S.RES ERJ2GEJ-JPW	B	62.3/117.5
R186	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	39.2/50.7
R187	7030008010	S.RES ERJ2GEJ 123 X (12 k)	T	41.5/55.9
R188	7410001150	S.ARY EXB28V471JX	T	48.5/41.1
R189	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	55.6/39.5
R190	7030008010	S.RES ERJ2GEJ 123 X (12 k)	T	43.1/55.9
R191	7030005000	S.RES ERJ2GEJ 471 X (470)	B	44/109.1
R192	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	44.9/109.1
R194	7030004980	S.RES ERJ2GEJ 101 X (100)	B	100.5/51.7
R195	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	100.5/53.4
R196	7030007260	S.RES ERJ2GEJ 330 X (33)	B	48/120.7
R197	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	40.5/50.6

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REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
R198	7030007260	S.RES ERJ2GEJ 330 X (33)	B	103.7/62
R199	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	67.6/57.5
R200	7030004980	S.RES ERJ2GEJ 101 X (100)	B	43.1/122.6
R201	7030005070	S.RES ERJ2GEJ 683 X (68 k)	B	48/122.6
R202	7030005160	S.RES ERJ2GEJ 105 X (1 M)	T	41.4/48.6
R204	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	54.7/39.5
R205	7030008010	S.RES ERJ2GEJ 123 X (12 k)	T	34.5/57.9
R207	7030005070	S.RES ERJ2GEJ 683 X (68 k)	B	103.7/64
R208	7030010040	S.RES ERJ2GEJ-JPW	B	46.2/120.7
R209	7030005000	S.RES ERJ2GEJ 471 X (470)	T	67.6/56
R212	7410001140	S.ARY EXB28V104JX	T	52.3/41.1
R213	7030005530	S.RES ERJ2GEJ 100 X (10)	T	41.4/47.7
R214	7030004980	S.RES ERJ2GEJ 101 X (100)	B	98.9/64
R215	7030010040	S.RES ERJ2GEJ-JPW	B	100.9/62
R216	7410001140	S.ARY EXB28V104JX	T	17.3/52.4
R217	7410001140	S.ARY EXB28V104JX	T	38.6/56
R218	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	65/137.9
R220	7410001140	S.ARY EXB28V104JX	T	15.2/50.7
R222	7410001140	S.ARY EXB28V104JX	T	36.1/56
R223	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	64/136.3
R224	7410001150	S.ARY EXB28V471JX	T	30.4/53.1
R225	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	64/137.9
R226	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	57.2/136.1
R227	7410001150	S.ARY EXB28V471JX	T	42.9/28.9
R230	7410001150	S.ARY EXB28V471JX	T	28.6/50.9
R231	7030005010	S.RES ERJ2GEJ 681 X (680) [USA-01]	B	55/138
	7030009270	S.RES ERJ2GEJ 821 X (820) [EXP-01], [USA-02], [EXP-02], [FR6100]	B	55/138
R232	7410001150	S.ARY EXB28V471JX	B	25.9/49.4
R233	7030005530	S.RES ERJ2GEJ 100 X (10)	B	54.1/136.1
R234	7410001150	S.ARY EXB28V471JX	T	42.5/25.7
R235	7410001150	S.ARY EXB28V471JX	T	24.2/47.6
R236	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	133.1/82.8
R237	7030005530	S.RES ERJ2GEJ 100 X (10)	B	48.4/138.3
R238	7410001150	S.ARY EXB28V471JX	T	45.7/28.9
R239	7410001150	S.ARY EXB28V471JX	T	22.4/45.8
R240	7030004980	S.RES ERJ2GEJ 101 X (100)	B	135.8/84.5
R241	7030005710	S.RES ERJ2GEJ 121 X (120)	B	48.4/133.8
R242	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	B	47.4/138.3
R243	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	46.4/138.3
R244	7410001150	S.ARY EXB28V471JX	T	39.7/25.8
R245	7410001150	S.ARY EXB28V471JX	T	20.2/42.4
R246	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	44.4/136.1
R247	7030008290	S.RES ERJ2GEJ 183 X (18 k)	B	47.4/140.4
R248	7030005600	S.RES ERJ2GEJ 273 X (27 k)	B	137.4/85.8
R253	7030004970	S.RES ERJ2GEJ 470 X (47)	B	138.8/85.4
R255	7030008400	S.RES ERJ2GEJ 182 X (1.8 k)	B	51.4/140.4
R257	7410001140	S.ARY EXB28V104JX	T	14.5/45.7
R258	7030005110	S.RES ERJ2GEJ 224 X (220 k)	B	58.3/140.4
R259	7030005170	S.RES ERJ2GEJ 474 X (470 k)	B	56.1/140.4
R260	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	144.6/121.4
R261	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	52.5/25.2
R262	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	51.9/22.8
R263	7410001140	S.ARY EXB28V104JX	T	46.2/20
R264	7410001140	S.ARY EXB28V104JX	T	50.2/24
R265	7030007280	S.RES ERJ2GEJ 331 X (330)	T	143/121.4
R266	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	34.6/133.5
R267	7410001140	S.ARY EXB28V104JX	T	14.8/43.1
R268	7410001150	S.ARY EXB28V471JX	T	45.7/31.8
R269	7030007270	S.RES ERJ2GEJ 151 X (150)	B	142.6/92.6
R270	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	30.6/134
R271	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	23.8/26.7
R272	7410001150	S.ARY EXB28V471JX	T	17.9/32.5
R273	7410001150	S.ARY EXB28V471JX	T	17.9/35.1
R274	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	31.5/134
R277	7030004980	S.RES ERJ2GEJ 101 X (100)	T	143.4/126.6
R278	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	13.9/65.6
R279	7030007290	S.RES ERJ2GEJ 222 X (22 k)	T	103.6/88.4
R280	7030004990	S.RES ERJ2GEJ 221 X (220)	T	138.4/128.2
R281	7410001150	S.ARY EXB28V471JX	T	21.3/31.8
R282	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	37.8/20.3
R283	7030005100	S.RES ERJ2GEJ 154 X (150 k)	T	141.5/126.6
R285	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	101.6/79.5
R287	7410001140	S.ARY EXB28V104JX	T	49.7/27.7
R288	7030005110	S.RES ERJ2GEJ 224 X (220 k)	T	136.8/124.7
R289	7030006070	S.RES ERJ2YJ101U (100)	B	86.9/117.5
R290	7030005110	S.RES ERJ2GEJ 224 X (220 k)	T	137.2/122.6
R291	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	T	139.2/121.2
R292	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	139.3/128.2
R295	7030006610	S.RES ERJ2GEJ 394 X (390 k)	T	136.

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REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
R333	7030007350	S.RES ERJ2GEJ 393 X (39 k)	B	139.3/131.4
R334	7030005651	S.RES ERA3YKD 304V (300 k)	T	57.8/30.5
R335	7030005871	S.RES ERA3YKD 104V (100 k)	T	55.9/29.7
R336	7030005110	S.RES ERJ2GEJ 224 X (220 k)	T	12/120.9
R337	7030005110	S.RES ERJ2GEJ 224 X (220 k)	T	13.2/120.6
R339	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	12/125.3
R341	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	33.3/12
R342	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	45.3/56.9
R346	7410001150	S.ARY EXB28V471JX	T	43.5/73.8
R347	7030005000	S.RES ERJ2GEJ 471 X (470)	T	9.8/132.9
R348	7030000620	S.RES MCR10EZJH 100 k	B	147.2/150.9
R349	7030000620	S.RES MCR10EZJH 100 k	B	26/149.7
R350	7030003560	S.RES ERJ3GEYJ 103 V (10 k)	B	6.4/131
R352	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	T	10.2/125.3
R353	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	55.8/56.9
R354	7030005700	S.RES ERJ2GEJ 274 X (270 k)	T	125.2/103.6
R355	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	129.2/103.6
R356	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	9.8/134.5
R357	7030003560	S.RES ERJ3GEYJ 103 V (10 k)	B	10.1/150.2
R362	7540000290	ABS ERZV10D220		
R364	7030005110	S.RES ERJ2GEJ 224 X (220 k)	T	65.1/71.2
R365	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	7.4/120.7
R366	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	T	7/123.5
R367	7030004980	S.RES ERJ2GEJ 101 X (100)	T	9.7/117.3
R368	7030008300	S.RES ERJ2GEJ 184 X (180 k)	T	8.5/117.8
R369	7030005230	S.RES ERJ2GEJ 334 X (330 k)	T	9.7/118.2
R370	7030008280	S.RES ERJ2GEJ 271 X (270)	T	6.1/120.7
R371	7030010040	S.RES ERJ2GEJ-JPW	T	5/117.3
R372	7030005000	S.RES ERJ2GEJ 471 X (470)	T	115.3/15.8
R373	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	115.3/14
R374	7030000140	S.RES MCR10EZJH 10 (100)	T	111.2/12.3
R375	7030010040	S.RES ERJ2GEJ-JPW	T	100.1/16.3
R376	7030004980	S.RES ERJ2GEJ 101 X (100)	B	62.3/122.2
R377	7030005000	S.RES ERJ2GEJ 471 X (470)	B	62.3/124.7
R378	7030005210	S.RES ERJ2GEJ 822 X (8.2 k)	B	63.2/126.1
R379	7030005210	S.RES ERJ2GEJ 822 X (8.2 k)	B	59.6/126.1
R380	7030007260	S.RES ERJ2GEJ 330 X (33)	B	57.8/123.7
R381	7030004990	S.RES ERJ2GEJ 221 X (220)	B	61.4/126.1
R424	7410001150	S.ARY EXB28V471JX	T	46.3/42.9
R425	7410001150	S.ARY EXB28V471JX	T	36.8/23
R426	7410001150	S.ARY EXB28V471JX	T	47.8/33.9
R427	7030005000	S.RES ERJ2GEJ 471 X (470)	T	25.5/26.7
R428	7410001140	S.ARY EXB28V104JX	T	48/22.7
R429	7410001140	S.ARY EXB28V104JX	T	49.7/30.2
R430	7410001140	S.ARY EXB28V104JX	T	52.3/43.6
R431	7410001150	S.ARY EXB28V471JX	T	17.9/40.3
R432	7410001140	S.ARY EXB28V104JX	T	15.2/48.2
R433	7410001150	S.ARY EXB28V471JX	T	39.6/23
R434	7410000750	S.ARY EXB-V4V 104JV (100 k)	B	36.8/48.2
R435	7410001140	S.ARY EXB28V104JX	B	39.1/47.8
R436	7410001140	S.ARY EXB28V104JX	B	44.3/41.2
R438	7410001140	S.ARY EXB28V104JX	B	34.4/47.7
R443	7030005000	S.RES ERJ2GEJ 471 X (470)	T	60.4/59.2
R444	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	13.5/33.6
R445	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	13.5/36.1
R446	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	13.5/37.4
R447	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	50.2/19.2
R448	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	49.3/19.2
R449	7030005170	S.RES ERJ2GEJ 474 X (470 k)	T	39.5/19.2
R450	7030005050	S.RES ERJ2GEJ 103 X (10 k)	T	50.2/16.5
R451	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	50.2/18
R452	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	51.1/19.2
R453	7030005120	S.RES ERJ2GEJ 102 X (1 k)	C42	52/13.9
R454	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	94.9/2.7
R455	7030005010	S.RES ERJ2GEJ 681 X (680)	B	124.9/2.7
R456	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	109.9/2.7
R467	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	38/44.6
R468	7410001140	S.ARY EXB28V104JX	B	31.8/48.5
R469	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	32.6/44.6
R470	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	10.9/20.2
R471	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	47.7/44.2
R472	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	4.8/36.1
R473	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	46.2/44.6
R474	7030005530	S.RES ERJ2GEJ 100 X (10)	B	15.5/55.3
R475	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	9/56.2
R476	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	15/53.5
R477	7030005080	S.RES ERJ2GEJ 823 X (82 k)	B	15/52.6
R478	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	9.1/54.7
R479	7030005110	S.RES ERJ2GEJ 224 X (220 k)	T	64.2/69.6
R480	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	15.6/61.5
R481	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	16.5/59.9
R482	7410001150	S.ARY EXB28V471JX	T	19.6/45.1
R483	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	31.2/56.5
R484	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	28.8/50.9
R485	7410001150	S.ARY EXB28V471JX	T	67.3/96.9
R486	7410001150	S.ARY EXB28V471JX	T	64.8/105.4
R487	7410001150	S.ARY EXB28V471JX	T	72.8/105.4
R488	7030008400	S.RES ERJ2GEJ 182 X (1.8 k)	T	9.5/54.9
R489	7030004980	S.RES ERJ2GEJ 101 X (100)	B	24.1/58.7
R490	7030008290	S.RES ERJ2GEJ 183 X (18 k)	B	28.2/58.4
R491	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.1/51.2
R492	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	29.8/58.8
R493	7030010040	S.RES ERJ2GEJ-JPW	T	11.3/19
R494	7030005000	S.RES ERJ2GEJ 471 X (470)	T	73.2/98.2
R495	7030005100	S.RES ERJ2GEJ 154 X (150 k)	T	55.2/55.3
R496	7030005070	S.RES ERJ2GEJ 683 X (68 k)	T	52.7/56.2
R497	7030005700	S.RES ERJ2GEJ 274 X (270 k)	T	52.7/55.3
R498	7030005600	S.RES ERJ2GEJ 273 X (27 k)	B	61.4/103.1
R499	7030004980	S.RES ERJ2GEJ 101 X (100)	T	24.4/57
R500	7030005600	S.RES ERJ2GEJ 273 X (27 k)	T	21.2/57.5
R501	7030005220	S.RES ERJ2GEJ 223 X (22 k)	T	22.8/53.8
R502	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	28/55
R503	7030007350	S.RES ERJ2GEJ 393 X (39 k)	T	55.5/58.4
R505	7030010040	S.RES ERJ2GEJ-JPW	T	113.4/18.3

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REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
R506	7030005110	S.RES ERJ2GEJ 224 X (220 k)	T	113.4/19.3
R507	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	115/19.3
R508	7030010040	S.RES ERJ2GEJ-JPW	T	144.6/119.6
R509	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	33.3/15.2
R510	7030007350	S.RES ERJ2GEJ 393 X (39 k)	B	29/14.1
R511	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	29.1/18.5
R512	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	30.8/18.5
R513	7030007280	S.RES ERJ2GEJ 331 X (330)	B	72.3/90.4
R530	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	62.5/66.3
R531	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	64.6/78.2
R532	7030005000	S.RES ERJ2GEJ 471 X (470)	B	45.1/37.1
R533	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	57.2/18.4
R534	7030005600	S.RES ERJ2GEJ 273 X (27 k)	B	45.3/58.6
R535	7030004980	S.RES ERJ2GEJ 101 X (100)	B	55.8/55.3
R536	7030005600	S.RES ERJ2GEJ 273 X (27 k)	B	55.8/58.6
R537	7030010040	S.RES ERJ2GEJ-JPW	B	41.6/41.2
R539	7030005100	S.RES ERJ2GEJ 154 X (150 k)	T	64.2/71.2
R540	7030005090	S.RES ERJ2GEJ 104 X (100 k)	T	90.6/17.9
R541	7030005220	S.RES ERJ2GEJ 223 X (22 k)	T	28.9/55
C1	4030017420	S.CER ECJ0EC1H470J	B	120.7/39
C2	4030017420	S.CER ECJ0EC1H470J	B	22.9/78.1
C3	4030016930	S.CER ECJ0EB1A104K	B	130.8/50.2
C4	4030017420	S.CER ECJ0EC1H470J	B	122.2/37.1
C5	4030017420	S.CER ECJ0EC1H470J	B	21.7/77.1
C6	4030016930	S.CER ECJ0EB1A104K	B	52.4/77.9
C7	4030017420	S.CER ECJ0EC1H470J	B	123.1/37.1
C8	4030017420	S.CER ECJ0EC1H470J	B	21.7/75.5
C9	4030017460	S.CER ECJ0EB1E102K	T	17.6/59
C10	4030016930	S.CER ECJ0EB1A104K	B	55.7/77.9
C11	4030016930	S.CER ECJ0EB1A104K	B	124/37.1
C12	4030016930	S.CER ECJ0EB1A104K	B	22.1/74.3
C13	4030016930	S.CER ECJ0EB1A104K	B	55.6/80.7
C14	4030017460	S.CER ECJ0EB1E102K	T	16.1/59.9
C15	4030016930	S.CER ECJ0EB1A104K	T	62.4/67.5
C16	4030017420	S.CER ECJ0EC1H470J	T	56.2/64.5
C17	4030016930	S.CER ECJ0EB1A104K	B	115.6/40.6
C18	4030017700	S.CER ECJ0EC1H151J	T	62.4/71.2
C19	4030016930	S.CER ECJ0EB1A104K	B	22.9/80.3
C20	4550006250	S.TAN TEESVA 1A 106M8R	B	115.4/37.5
C21	4550006250	S.TAN TEESVA 1A 106M8R	B	21.3/80.5
C22	4030016930	S.CER ECJ0EB1A104K	B	50/77.9
C23	4030016930	S.CER ECJ0EB1A104K	T	57.8/52.6
C24	4030016930	S.CER ECJ0EB1A104K	B	50.3/81.1
C25	4030016930	S.CER ECJ0EB1A104K	B	54.4/81.1
C26	4030017460	S.CER ECJ0EB1E102K	B	117.8/39.2
C27	4030017460	S.CER ECJ0EB1E102K	B	23.8/80.3
C28	4030016930	S.CER ECJ0EB1A104K	B	53.3/77.9
C30	4030017460	S.CER ECJ0EB1E102K	T	59.8/67
C31	4030016930	S.CER ECJ0EB1A104K	T	60.5/53
C32	4030017590	S.CER ECJ0EC1H070C	B	38.4/79.1
C33	4030016930	S.CER ECJ0EB1A104K	T	58.9/67
C34	4030017570	S.CER ECJ0EC1H040B	B	37.2/78.7
C35	4030016930	S.CER ECJ0EB1A104K	B	38.3/76
C36	4030017500	S.CER ECJ0EC1H560J	B	37.2/79.6
C37	4030016930	S.CER ECJ0EB1A104K	B	48.4/79.8
C38	4030016930	S.CER ECJ0EB1A104K	B	69.8/78.2
C39	4030017360	S.CER ECJ0EC1H030B	B	71.4/77.3
C40	4030017760	S.CER ECJ0EB1H222K	B	68.2/77.3
C41	4030018860	S.CER ECJ0EB0J105K	B	31/58.2
C42	4030017760	S.CER ECJ0EB1H222K	B	68.2/76.4
C43	4030016930	S.CER ECJ0EB1A104K	B	55.6/49
C44	4030018860	S.CER ECJ0EB0J105K	B	35.7/56.4
C45	4030016950	S.CER ECJ0EB1A473K	B	34.5/55.2
C47	4030017460	S.CER ECJ0EB1E102K	B	64.6/77.3
C48	4030016930	S.CER ECJ0EB1A104K	T	52.7/54.4
C49	4030018860	S.CER ECJ0EB0J105K	B	15.6/58.3
C50	4030016930	S.CER ECJ0EB1A104K	B	130.8/48.4
C51	4030017620	S.CER ECJ0EC1H100C	B	125.1/45.3
C52	4030017420	S.CER ECJ0EC1H470J	B	120.6/48.8
C53	4030017420	S.CER ECJ0EC1H470J	B	32.7/78.4
C54	4030017660	S.CER ECJ0EC1H330J	B	32.7/77.3
C56	4030016950	S.CER ECJ0EB1A473K	B	31.9/59.1
C59	4030017430	S.CER ECJ0EC1H101J	B	32.7/76.4
C60	4030017620	S.CER ECJ0EC1H100C	B	32.3/72.9
C61	4030018900	S.CER ECJ0EB0J474K	B	18/63.8
C62	4030016930	S.CER ECJ0EB1A104K	B	33.6/55.2
C63	4030016930	S.CER ECJ0EB1A104K	T	55.6/61.6
C66	4030017430	S.CER ECJ0EC1H101J	B	123.5/48.4
C67	4030017460	S.CER ECJ0EB1E102K	B	67.5/87.7
C69	4030016930	S.CER ECJ0EB1A104K	B	29.8/63
C70	4030017460	S.CER ECJ0EB1E102K	B	64.3/79.4
C71	4030016930	S.CER ECJ0EB1A104K	B	57.6/43.3
C72	4030018910	S.CER C1608 JB 0J 475K-T	B	29.3/61.9
C73	4030017460	S.CER ECJ0EB1E102K	B	96.3/45.4
C75	4030017460	S.CER ECJ0EB1E102K	B	36/105.6
C77	4030016930	S.CER ECJ0EB1A104K	T	53.9/57.7
C78	4030017460	S.CER ECJ0EB1E102K	B	119.7/50.4
C79	4030017460	S.CER ECJ0EB1E102K	B	34.3/79.5
C80	4030017350	S.CER ECJ0EC1H020B	B	102.4/45.6
C81	4030017350	S.CER ECJ0EC1H020B	B	42.2/99.6
C82	4550006250	S.TAN TEESVA 1A 106M8R	B	61.1/79.2
C83	4030017460	S.CER ECJ0EB1E102K	B	71.7/86.7
C84	4030017420	S.CER ECJ0EC1H470J	B	74.7/81.1
C85	4030017590	S.CER ECJ0EC1H070C	B	56/43.3
C86	4030016930	S.CER ECJ0EB1A104K	B	51.7/47.1
C87	4030018910	S.CER C1608 JB 0J 475K-T	B	54.3/48.4
C88	4030017770	S.CER ECJ0EB1E332K	B	86.7/40.6
C89	4030017770	S.CER ECJ0EB1E332K	B	28/99.3
C90	4030017680	S.CER ECJ0EC1H820J	B	69.1/86.7
C91	4030016930	S.CER ECJ0EB1A104K	T	60.7/66.3
C92	4030016790	S.CER ECJ0EB1C103K	B	72.7/88
C93	4030017460	S.CER ECJ0EB1E102K	B	70/87.9

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REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
C96	4030018910	S.CER C1608 JB 0J 475K-T	B	49.2/48.9
C97	4030016930	S.CER ECJ0EB1A104K	B	57.4/50.6
C98	4030017460	S.CER ECJ0EB1E102K	B	35.1/107.3
C99	4030017460	S.CER ECJ0EB1E102K	B	39.9/72.7
C101	4030017620	S.CER ECJ0EC1H100C	B	37.7/63.2
C102	4550000560	S.TAN TEESVA 1V 334M8R	B	84.7/42.7
C103	4550003260	S.TAN TEESVA 1V 684M8R	B	26.2/100.4
C104	4030016930	S.CER ECJ0EB1A104K	B	39.9/74.5
C105	4030017520	S.CER ECJ0EC1H0R3B	B	103.2/47.8
C106	4030017340	S.CER ECJ0EC1H010B	B	47/100.1
C107	4030017590	S.CER ECJ0EC1H070C	B	72.3/89.5
C108	4030017460	S.CER ECJ0EB1E102K	B	94.5/47.1
C109	4030017530	S.CER ECJ0EC1H0R5B	B	101.9/48.3
C110	4030017530	S.CER ECJ0EC1H0R5B	B	46.5/101.4
C111	4030016790	S.CER ECJ0EB1C103K	B	70.7/92.3
C112	4550000270	S.TAN TEESVA 1E 474M8R	B	84.7/47.9
C113	4550000270	S.TAN TEESVA 1E 474M8R	B	26.2/105.6
C114	4030017520	S.CER ECJ0EC1H0R3B	B	103.2/49.6
C115	4030017550	S.CER ECJ0EC1H1R5B	B	47/102.8
C116	4030017460	S.CER ECJ0EB1E102K	B	70.7/89.5
C117	4030016790	S.CER ECJ0EB1C103K	B	69.1/90.4
C118	4030016790	S.CER ECJ0EB1C103K	B	69.1/91.3
C121	4030016790	S.CER ECJ0EB1C103K	B	71.1/94.8
C122	4030016790	S.CER ECJ0EB1C103K	B	67.2/91.6
C123	4030016930	S.CER ECJ0EB1A104K	B	67.5/100.1
C124	4030016930	S.CER ECJ0EB1A104K	B	48.5/50.5
C125	4030016790	S.CER ECJ0EB1C103K	B	95.4/43.7
C126	4030016790	S.CER ECJ0EB1C103K	B	57.2/35.1
C127	4030016790	S.CER ECJ0EB1C103K	B	36/103.9
C133	4030017590	S.CER ECJ0EC1H070C	B	59.4/92.8
C134	4550003260	S.TAN TEESVA 1V 684M8R	B	26.2/112.4
C135	4030016930	S.CER ECJ0EB1A104K	B	37.8/103.9
C136	4030016930	S.CER ECJ0EB1A104K	B	50.4/36.8
C137	4030017620	S.CER ECJ0EC1H100C	B	56.2/38.3
C138	4030017640	S.CER ECJ0EC1H150J	B	75.8/101.1
C139	4030017650	S.CER ECJ0EC1H270J	B	59.4/91.9
C140	4030016930	S.CER ECJ0EB1A104K	B	55.3/36.7
C141	4550000270	S.TAN TEESVA 1E 474M8R	B	82.6/47.9
C144	4550006250	S.TAN TEESVA 1A 106M8R	B	94.7/41.5
C145	4030017420	S.CER ECJ0EC1H470J	B	50.4/38.5
C146	4030017460	S.CER ECJ0EB1E102K	B	56.2/35.1
C147	4550006250	S.TAN TEESVA 1A 106M8R	B	33.3/100.4
C149	4030016790	S.CER ECJ0EB1C103K	B	69.4/95.7
C150	4030016790	S.CER ECJ0EB1C103K	B	65.7/97.3
C151	4030017610	S.CER ECJ0EC1H090C	B	61.7/97.1
C152	4030016930	S.CER ECJ0EB1A104K	B	55.3/32.4
C153	4030017380	S.CER ECJ0EC1H050B	B	49.8/34.9
C154	4030017420	S.CER ECJ0EC1H470J	B	26.5/120.6
C155	4030017460	S.CER ECJ0EB1E102K	B	26.5/123.2
C156	4030017420	S.CER ECJ0EC1H470J	B	28.5/111.5
C157	4030017460	S.CER ECJ0EB1E102K	B	28/117.2
C158	4030017420	S.CER ECJ0EC1H470J	B	81.7/62.1
C159	4030017420	S.CER ECJ0EC1H470J	B	81.7/53.6
C160	4030016790	S.CER ECJ0EB1C103K	B	65.7/104.4
C161	4030016790	S.CER ECJ0EB1C103K	B	62.7/98.9
C162	4030016930	S.CER ECJ0EB1A104K	B	81.7/67.1
C163	4030016930	S.CER ECJ0EB1A104K	B	81.7/58.6
C164	4030016930	S.CER ECJ0EB1A104K	B	49.5/36.8
C165	4030017460	S.CER ECJ0EB1E102K	B	81.7/66.2
C166	4030017460	S.CER ECJ0EB1E102K	B	81.7/57.7
C167	4030017460	S.CER ECJ0EB1E102K	B	97.3/45.4
C168	4030017380	S.CER ECJ0EC1H050B	B	32.6/124.3
C169	4030017600	S.CER ECJ0EC1H080C	B	
C170	4030017620	[EXP-01], [USA-02], [EXP-02], [FR6100]	B	30.8/124.4
		S.CER ECJ0EC1H100C	B	30.8/124.4
		[USA-01]	B	30.6/114.4
C171	4030017620	S.CER ECJ0EC1H060C	B	
		S.CER ECJ0EC1H100C	B	
		[EXP-01], [USA-02], [EXP-02], [FR6100]	B	30.6/115.3
C172	4030017630	S.CER ECJ0EC1H120J	B	
		S.CER ECJ0EC1H060C	B	
		[EXP-01], [USA-02], [EXP-02], [FR6100]	B	87.8/65.7
C173	4030017590	S.CER ECJ0EC1H070C	B	87.8/65.7
		S.CER ECJ0EC1H070C	B	86.5/65.3
		S.CER ECJ0EC1H080C	B	
C174	4030017610	[EXP-01], [USA-02], [EXP-02], [FR6100]	B	86.5/65.3
		S.CER ECJ0EC1H090C	B	85.7/55
		S.CER ECJ0EC1H100C	B	
C176	4030017630	[EXP-01], [USA-02], [EXP-02], [FR6100]	B	85.7/55.9
		S.CER ECJ0EC1H120J	B	85.7/55.9
		S.CER ECJ0EB0J105K	T	62.9/51
C177	4030017380	S.CER ECJ0EC1H050B	B	35.6/120.7
		S.CER ECJ0EC1H040B	B	
		[EXP-01], [USA-02], [EXP-02], [FR6100]	B	35.6/120.7
C178	4030017380	S.CER ECJ0EC1H050B	B	
		[EXP-01], [USA-02], [EXP-02], [FR6100]	B	32/112.2
		S.CER ECJ0EC1H060C	B	32/112.2
C179	4030017420	S.CER ECJ0EC1H470J	T	14.9/129.1
		S.CER ECJ0EC1H080C	B	91.5/62
		S.CER ECJ0EC1H070C	B	87.1/52.9
C181	4030017610	S.CER ECJ0EC1H090C	B	
		[EXP-01], [USA-02], [EXP-02], [FR6100]	B	87.1/52.9
		S.CER ECJ0EB1C103K	B	63.1/104.4
C182	4030017420	S.CER ECJ0EC1H470J	T	14.9/131.3
C183	4030017600	S.CER ECJ0EC1H080C	B	
C184	4030017620	[EXP-01], [USA-02], [EXP-02], [FR6100]	B	34.9/124.3
		S.CER ECJ0EC1H100C	B	34.9/124.3
		S.CER ECJ0EC1H100C	B	
C185	4030017630	[EXP-01], [USA-02], [EXP-02], [FR6100]	B	35.4/115.3
		S.CER ECJ0EC1H120J	B	35.4/115.3
		S.CER ECJ0EC1H470J	B	98.2/48.8
C186	4030017420	S.CER ECJ0EC1H470J	B	89.4/66.8
C187	4030017540	S.CER ECJ0EC1H075B	B	90.6/66.6
C188	4030017360	S.CER ECJ0EC1H030B	B	87/57.2
C189	4030017340	S.CER ECJ0EC1H010B	B	87/58.2
C190	4030017350	S.CER ECJ0EC1H020B	B	

[MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
C191	4030017590	S.CER ECJ0EC1H070C	B	89.4/65.7
C192	4030017640	S.CER ECJ0EC1H150J	B	90.5/56.3
C193	4030017460	S.CER ECJ0EB1E102K	B	61.4/107.1
C194	4030017580	S.CER ECJ0EC1H060C	B	36.8/122.8
C195	4030017630	S.CER ECJ0EC1H120J	B	40.1/120.7
C196	4030017620	S.CER ECJ0EC1H100C	B	37.6/114.4
C197	4030017640	S.CER ECJ0EC1H150J	B	41/112.2
C198	4030016790	S.CER ECJ0EB1C103K	B	60.5/107.1
C200	4030017570	S.CER ECJ0EC1H040B	B	92.4/64.3
C201	4030017620	S.CER ECJ0EC1H100C	B	96/62
C202	4030017610	S.CER ECJ0EC1H090C	B	93.1/55.4
C203	4030017390	S.CER ECJ0EC1H180J	B	96.3/52.9
C204	4550006250	S.TAN TEESVA 1A 106M8R	T	81.7/17
C205	4550006250	S.TAN TEESVA 1A 106M8R	T	85.1/17
C206	4550006250	S.TAN TEESVA 1A 106M8R	T	88.8/16.7
C208	4030017490	S.CER C1608 JB 1A 105K-T	T	80/16.6
C209	4030017490	S.CER C1608 JB 1A 105K-T	T	83.4/16.6
C210	4030017490	S.CER C1608 JB 1A 105K-T	T	86.9/16.3
C211	4030016930	S.CER ECJ0EB1A104K	B	38.3/120.7
C212	4030016790	S.CER ECJ0EB1C103K	B	39.2/112.2
C213	4030017660	S.CER ECJ0EC1H330J	B	68.5/106.1
C214	4030017460	S.CER ECJ0EB1E102K	B	66.8/107
C215	4030017530	S.CER ECJ0EC1H0R5B	B	41.9/120.7
C216	4030017520	S.CER ECJ0EC1H0R3B	B	42.6/115.7
C217	4030017460	S.CER ECJ0EB1E102K	B	39.2/120.7
C218	4030017460	S.CER ECJ0EB1E102K	B	40.1/112.2
C219	4030016790	S.CER ECJ0EB1C103K	B	94.2/62
C220	4030017530	S.CER ECJ0EC1H0R5B	B	98.2/61.3
C221	4030016790	S.CER ECJ0EB1C103K	B	94.5/52.9
C222	4030017530	S.CER ECJ0EC1H0R5B	B	98.2/57.1
C224	4030017460	S.CER ECJ0EB1E102K	B	95.1/62
C225	4030017460	S.CER ECJ0EB1E102K	B	95.4/52.9
C228	4030017490	S.CER C1608 JB 1A 105K-T	T	79.8/24.4
C229	4030017490	S.CER C1608 JB 1A 105K-T	T	83.3/24.4
C230	4030017490	S.CER C1608 JB 1A 105K-T	T	86.8/24.4
C231	4550005980	S.TAN TEESVA 1A 475M8R	T	81.6/25.6
C232	4550005980	S.TAN TEESVA 1A 475M8R	T	85.1/25.6
C233	4550005980	S.TAN TEESVA 1A 475M8R	T	88.5/25.6
C235	4030017030	S.CER ECJ0EB1A273K	T	41/55
C236	4030017730	S.CER ECJ0EB1E471K	B	100.5/55
C237	4030017460	S.CER ECJ0EB1E102K	B	100.5/60.4
C238	4030017730	S.CER ECJ0EB1E471K	B	44.9/112.6
C239	4030017460	S.CER ECJ0EB1E102K	B	44.9/118
C240	4510008540	S.ELE EEE1CA100SR	T	95.1/22.3
C241	4030017350	S.CER ECJ0EC1H020B	B	68.3/120.9
C242	4030016790	S.CER ECJ0EB1C103K	B	68.7/111.2
C243	4030017460	S.CER ECJ0EB1E102K	B	70.3/106.1
C244	4030016790	S.CER ECJ0EB1C103K	B	70.3/107
C245	4030017460	S.CER ECJ0EB1E102K	B	91.5/59.6
C246	4030017580	S.CER ECJ0EC1H060C	B	46.9/113.5
C247	4030017460	S.CER ECJ0EB1E102K	B	43.1/109.1
C248	4030017460	S.CER ECJ0EB1E102K	B	36/117.8
C249	4030017420	S.CER ECJ0EC1H470J	B	48.1/109.1
C250	4030017380	S.CER ECJ0EC1H050B	B	103.7/58.7
C251	4030017580	S.CER ECJ0EC1H060C	B	102.6/55.9
C252	4030017460	S.CER ECJ0EB1E102K	B	100.5/50
C253	4030017380	S.CER ECJ0EC1H050B	B	48/116.2
C254	4030017460	S.CER ECJ0EB1E102K	B	103.7/53.4
C255	4030016930	S.CER ECJ0EB1A104K	T	42.1/50.6
C256	4030017640	S.CER ECJ0EC1H150J	T	43.1/55
C257	4030016790	S.CER ECJ0EB1C103K	T	34.5/58.8
C258	4030017580	S.CER ECJ0EC1H060C	B	59.6/117.8
C259	4030017580	S.CER ECJ0EC1H060C	T	48.5/46.4
C260	4030017460	S.CER ECJ0EB1E102K	B	66.5/105.4
C262	4030016930	S.CER ECJ0EB1A104K	T	69.2/57.5
C263	4030017420	S.CER ECJ0EC1H470J	B	60.5/126.1
C264	4030017460	S.CER ECJ0EB1E102K	B	101.9/50
C265	4030017460	S.CER ECJ0EB1E102K	B	43.5/120.7
C266	4030018900	S.CER ECJ0EB0J474K	T	43.9/45.6
C267	4030017630	S.CER ECJ0EC1H120J	B	59.6/119.3
C268	4030017420	S.CER ECJ0EC1H470J	B	62.3/126.1
C269	4550006780	S.TAN TEESVB2 0J 476M8R	T	71.8/60.8
C270	4030016930	S.CER ECJ0EB1A104K	T	40.5/49.7
C271	4030017350	S.CER ECJ0EC1H020B	B	68.1/137.9
C272	4030017630	S.CER ECJ0EC1H120J	T	47.3/60.1
C274	4030017460	S.CER ECJ0EB1E102K	B	44.4/120.7
C275	4030017620	S.CER ECJ0EC1H100C	B	48/124.4
C276	4030017530	S.CER ECJ0EC1H0R5B	B	67.2/137.9
C277	4030016790	S.CER ECJ0EB1C103K	T	48.6/36.7
C279	4030017580	S.CER ECJ0EC1H060C	B	59.6/120.9
C280	4030017460	S.CER ECJ0EB1E102K	B	98.9/66.3
C281	4030017460	S.CER ECJ0EB1E102K	B	1

[MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
C303	4030017370	S.CER ECJ0EC1H3R5B	B	131.4/82.3
C304	4030017420	S.CER ECJ0EC1H470J	B	136.2/81.9
C305	4030017420	S.CER ECJ0EC1H470J	B	46.4/133.8
C306	4030017460	S.CER ECJ0EB1E102K	B	47.4/133.8
C307	4030017460	S.CER ECJ0EB1E102K	B	45.4/138.3
C309	4030017420	S.CER ECJ0EC1H470J	B	136.8/84.5
C310	4030017380	S.CER ECJ0EC1H050B	B	134.9/85.9
C311	4030016930	S.CER ECJ0EB1A104K	B	45.4/140.4
C312	4030017420	S.CER ECJ0EC1H470J	B	50.4/140.4
C313	4030016930	S.CER ECJ0EB1A104K	B	46.4/140.4
C314	4030017460	S.CER ECJ0EB1E102K	B	49.4/140.4
C315	4030017730	S.CER ECJ0EB1E471K	B	137.8/84.5
C316	4030017570	S.CER ECJ0EC1H040B	B	130.4/80.9
C321	4030017420	S.CER ECJ0EC1H470J	T	66/57.5
C322	4030017420	S.CER ECJ0EC1H470J	T	67.6/54.3
C323	4030017620	S.CER ECJ0EC1H100C	B	44.4/137.7
C324	4030017530	S.CER ECJ0EC1H0R5B	B	134.9/88.3
C326	4030017580	S.CER ECJ0EC1H060C	B	39.3/138.2
C327	4030017360	S.CER ECJ0EC1H030B	B	141.8/89.2
C328	4030017420	S.CER ECJ0EC1H470J	B	140.9/85.4
C329	4030017410	S.CER ECJ0EC1H240J	B	38.4/133.5
C330	4030017460	S.CER ECJ0EB1E102K	B	139.9/85.4
C331	4030017460	S.CER ECJ0EB1E102K	B	59.2/140.4
C332	4030018860	S.CER ECJ0EB0J105K	B	55/140.4
C333	4030016930	S.CER ECJ0EB1A104K	T	23.1/29.4
C335	4030017550	S.CER ECJ0EC1H1R5B	B	144/89.5
C336	4030018860	S.CER ECJ0EB0J105K	B	60.1/140.4
C337	4030017580	S.CER ECJ0EC1H060C	B	142.6/91.7
C338	4030017550	S.CER ECJ0EC1H1R5B	B	39.3/139.1
C339	4030017460	S.CER ECJ0EB1E102K	B	32.5/134
C340	4030016930	S.CER ECJ0EB1A104K	T	54/20.3
C341	4030017420	S.CER ECJ0EC1H470J	T	143.1/123.3
C342	4030017730	S.CER ECJ0EB1E471K	T	138.8/108
C345	4030017460	S.CER ECJ0EB1E102K	B	30.6/135.9
C346	4030017420	S.CER ECJ0EC1H470J	T	63.1/57.2
C347	4030017460	S.CER ECJ0EB1E102K	T	143.1/124.2
C348	4030017420	S.CER ECJ0EC1H470J	T	63.8/55.2
C349	4030017580	S.CER ECJ0EC1H060C	B	143.5/95.2
C350	4030017420	S.CER ECJ0EC1H470J	T	138.7/112.3
C351	4030017460	S.CER ECJ0EB1E102K	T	138.7/113.2
C352	4030017410	S.CER ECJ0EC1H240J	B	31.6/137.9
C353	4030017460	S.CER ECJ0EB1E102K	T	140.4/118.8
C354	4030017420	S.CER ECJ0EC1H470J	T	106.6/115.9
C355	4030017380	S.CER ECJ0EC1H050B	B	37.5/136.8
		[EXP-01], [USA-02], [EXP-02], [FR6100]	B	37.5/136.8
C357	4030017630	S.CER ECJ0EC1H120J	B	39.3/140
C358	4030016790	S.CER ECJ0EB1C103K	T	137.5/128.2
C359	4510009550	S.ELE EEEFK1C100R	T	107.2/86.5
C360	4030017460	S.CER ECJ0EB1E102K	T	106.6/116.8
C362	4030017510	S.CER ECJ0EC1H680J	B	39.7/144.6
C364	4030011020	S.CER GRM31M4C2H1R0CY21L	B	89.8/119.8
		[USA-01]		
C365	4030011030	S.CER GRM31M4C2H1R5CY21L	B	89.8/119.8
		[EXP-01], [USA-02], [EXP-02], [FR6100]		
C366	4030017730	S.CER ECJ0EB1E471K	T	106.6/117.7
C367	4030016970	S.CER ECJ0EB1C223K	T	142.4/126.6
C368	4510009810	S.ELE EEEFK1E220R	T	107.3/95.1
C369	4030006860	S.CER C1608 JB 1H 102K-T	T	89.1/142
C369	4030017460	S.CER ECJ0EB1E102K	B	33.4/134
C370	4030011060	S.CER GRM31M2C2H4R0CY21L	B	100.2/123.1
C371	4030006980	S.CER C1608 CH 1H 070D-T	T	35.5/142.5
		[USA-01]		
C372	4030007010	S.CER C1608 CH 1H 100D-T	T	35.5/142.5
		[EXP-01], [USA-02], [EXP-02], [FR6100]		
C372	4030011100	S.CER GRM31M2C2H8R0DV01L	B	100.2/121
C373	4030017780	S.CER ECJ0EB1E472K	T	136.7/123.8
C374	4030017420	S.CER ECJ0EC1H470J	B	85.2/129.8
C375	4030017460	S.CER ECJ0EB1E102K	T	113.1/95.2
C376	4030017350	S.CER ECJ0EC1H020B	B	86/138.8
C377	4030017420	S.CER ECJ0EC1H470J	B	84.2/119.4
C378	4030017420	S.CER ECJ0EC1H470J	T	112.2/95.2
C381	4030017400	S.CER ECJ0EC1H220J	T	111.3/95.2
C383	4030017460	S.CER ECJ0EB1E102K	T	114/78.2
C385	4030017460	S.CER ECJ0EB1E102K	B	22.8/142.4
C386	4030017460	S.CER ECJ0EB1E102K	T	139.2/119.6
C387	4030017600	S.CER ECJ0EC1H080C	B	89.7/177.9
C388	4510009550	S.ELE EEEFK1C100R	T	126.4/37.2
C389	4030017200	S.CER GRM31BR32J102KY01L	B	96.8/130.4
C390	4030011070	S.CER GRM31M2C2H5R0CY21L	B	87.6/133.2
C391	4030017460	S.CER ECJ0EB1E102K	T	122.2/76
C392	4030017520	S.CER ECJ0EC1H0R3B	B	95.4/134.3
C393	4030011050	S.CER GRM31M3C2H3R0CY21L	B	98.4/126.8
C394	4550006250	S.TAN TEESVA 1A 106M8R	B	26.3/15.3
C395	4030011050	S.CER GRM31M3C2H3R0CY21L	B	100.5/126.9
C396	4510009550	S.ELE EEEFK1C100R	T	97/77.8
C397	4030017460	S.CER ECJ0EB1E102K	T	137.4/118.5
C398	4550006250	S.TAN TEESVA 1A 106M8R	B	31.7/15.5
C399	4030017460	S.CER ECJ0EB1E102K	T	100/76.1
C400	4030017460	S.CER ECJ0EB1E102K	B	86.2/129.8
C401	4030011080	S.CER GRM31M2C2H6R0DV01L	B	103.2/130.9
C402	4030016930	S.CER ECJ0EB1A104K	T	47.2/71.6
C403	4030011050	S.CER GRM31M3C2H3R0CY21L	B	106.2/130.9
C404	4030017460	S.CER ECJ0EB1E102K	T	140.7/129.2
C405	4030017420	S.CER ECJ0EC1H470J	B	56.7/55.3
C406	4030016790	S.CER ECJ0EB1C103K	T	103.5/76.2
C407	4030011030	S.CER GRM31M4C2H1R5CY21L	B	102.6/137.2
C408	4030017460	S.CER ECJ0EB1E102K	B	98.1/138.5
C409	4030011050	S.CER GRM31M3C2H3R0CY21L	B	110.9/136
C410	4030011050	S.CER GRM31M3C2H3R0CY21L	B	113/134
C411	4550007650	S.TAN F931V105MAABMA	T	37.5/68.6
C412	4030017460	S.CER ECJ0EB1E102K	T	112.6/78.5
C413	4030016930	S.CER ECJ0EB1A104K	T	38.5/71.9
C414	4030017420	S.CER ECJ0EC1H470J	B	29.7/135.9
C415	4550007650	S.TAN F931V105MAABMA	T	37.5/63.4

[MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
C416	4550006250	S.TAN TEESVA 1A 106M8R	T	107.8/81.5
C417	4030016930	S.CER ECJ0EB1A104K	T	15/125.7
C418	4550007650	S.TAN F931V105MAABMA	T	39.4/73.9
C419	4030011050	S.CER GRM31M3C2H3R0CY21L	B	115.7/134
		[USA-01]		
C420	4030011060	S.CER GRM31M2C2H4R0CY21L	B	115.7/134
		[EXP-01], [USA-02], [EXP-02], [FR6100]		
C420	4030016930	S.CER ECJ0EB1A104K	B	27.4/18.5
C422	4030006860	S.CER C1608 JB 1H 102K-T	B	119.5/139.5
C423	4030017460	S.CER ECJ0EB1E102K	B	119.4/145.9
C424	4030016930	S.CER ECJ0EB1A104K	T	14.1/125.7
C426	4030009530	S.CER C1608 CH 1H 030B-T	B	120.8/139.5
C431	4030018860	S.CER ECJ0EB0J105K	B	33.3/13.6
C432	4030016930	S.CER ECJ0EB1A104K	T	10.8/120.6
C433	4030006860	S.CER C1608 JB 1H 102K-T	B	139.5/137.7
C434	4030017460	S.CER ECJ0EB1E102K	B	140.5/131
C435	4030017460	S.CER ECJ0EB1E102K	T	54.8/29.8
C436	4030011050	S.CER GRM31M3C2H3R0CY21L	B	144.8/138.6
C437	4030016930	S.CER ECJ0EB1A104K	B	34.4/12
C438	4030016790	S.CER ECJ0EB1C103K	T	112.8/88.2
C439	4510009810	S.ELE EEEFK1E220R	T	128.4/89.8
C440	4030018900	S.CER ECJ0EB0J474K	T	7.9/129.6
C441	4030017440	S.CER ECJ0EC1H221J	T	12/126.2
C442	4510008780	S.ELE EEE1EA471P	B	9.6/119.8
C443	4030017460	S.CER ECJ0EB1E102K	T	111.9/88.2
C444	4030011070	S.CER GRM31M2C2H5R0CY21L	B	147/148.9
C446	4030017460	S.CER ECJ0EB1E102K	T	6.6/130.1
C448	4030017460	S.CER ECJ0EB1E102K	T	128.8/102.4
C449	4510008870	S.ELE EEE1AA471UP	B	8.9/139.2
C450	4030016930	S.CER ECJ0EB1A104K	T	7/125.3
C451	4030018860	S.CER ECJ0EB0J105K	T	8.6/125.3
C452	4030018860	S.CER ECJ0EB0J105K	T	72/98.2
C453	4030017460	S.CER ECJ0EB1E102K	T	130.8/103.6
C454	4030017430	S.CER ECJ0EC1H101J	B	46.3/56.9
C458	4030017460	S.CER ECJ0EB1E102K	T	114.8/95.7
C459	4030017460	S.CER ECJ0EB1E102K	T	116.3/119.1
C460	4030017460	S.CER ECJ0EB1E102K	B	9.6/147.3
C461	4030017420	S.CER ECJ0EC1H470J	T	114.8/94.8
C462	4030017420	S.CER ECJ0EC1H470J	T	115.3/119.1
C463	4030017420	S.CER ECJ0EC1H470J	B	9.6/146.4
C464	4510009680	S.ELE EEEFK1E471P	B	144.4/121.1
C465	4550006250	S.TAN TEESVA 1A 106M8R	T	102.7/92
C466	4030017420	S.CER ECJ0EC1H470J	T	99.9/88
C467	4030016930	S.CER ECJ0EB1A104K	T	62.3/58.5
C468	4030016930	S.CER ECJ0EB1A104K	T	61.7/56.9
C470	4030018860	S.CER ECJ0EB0J105K	T	7.4/122.3
C471	4030016790	S.CER ECJ0EB1C103K	T	7/124.4
C472	4030018860	S.CER ECJ0EB0J105K	T	10.9/117.7
C473	4030018860	S.CER ECJ0EB0J105K	T	5/118.9
C474	4030017780	S.CER ECJ0EB1E472K	T	115.3/17.6
C475	4510008120	S.ELE 16 CE 100 BS	T	125.1/12.1
C476	4510008120	S.ELE 16 CE 100 BS	T	125.1/19.3
C477	4030017780	S.CER ECJ0EB1E472K	T	119/12.3
C478	4030017780	S.CER ECJ0EB1E472K	T	115.3/12.2
C479	4510008120	S.ELE 16 CE 100 BS	T	104.8/14.3
C481	4030017460	S.CER ECJ0EB1E102K	B	63.2/122.2
C491	4030016930	S.CER ECJ0EB1A104K	T	60.4/60.1
C492	4030016930	S.CER ECJ0EB1A104K	B	13.5/32.6
C493	4510008870	S.ELE EEE1AA471UP	B	66.3/45.3
C494	4030016930	S.CER ECJ0EB1A104K	T	117.2/92.6
C495	4030016930	S.CER ECJ0EB1A104K	T	117.2/90.7
C496	4030016930	S.CER ECJ0EB1A104K	T	122.4/92.2
C497	4030016930	S.CER ECJ0EB1A104K	T	109.7/82
C498	4030016930	S.CER ECJ0EB1A104K	T	11.4/43.2
C501	4030017420	S.CER ECJ0EC1H470J	T	12.2/31.2
C502	4030017420	S.CER ECJ0EC1H470J	T	29.5/2.8
C503	4030017420	S.CER ECJ0EC1H470J	T	48/99.4
C506	4030016930	S.CER ECJ0EB1A104K	B	26.3/43.3
C507	4030016930	S.CER ECJ0EB1A104K	B	32.9/31
C508	4030016930	S.CER ECJ0EB1A104K	B	40.1/42.7
C509	4030016930	S.CER ECJ0EB1A104K	B	26.2/39
C510	4030016930	S.CER ECJ0EB1A104K	B	26.6/33
C511	4030016930	S.CER ECJ0EB1A104K	B	40.1/34.2
C512	4030017420	S.CER ECJ0EC1H470J	T	92/14.7
C513	4550006250	S.TAN TEESVA 1A 106M8R	B	8.4/59.8
C514	4030016930	S.CER ECJ0EB1A104K	B	11.7/53.5
C515	4030016930	S.CER ECJ0EB1A104K	B	15.5/54.4
C516	4030016930	S.CER ECJ0EB1A104K	T	65.1/69.6
C517	4030016930	S.CER ECJ0EB1A104K	B	15.6/63.1
C518	4030016930	S.CER ECJ0EB1A104K	B	12.4/62.4
C519	4030017460	S.CER ECJ0EB1E102K	B	15.6/59.9

[MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
C545	4030011060	S.CER GRM31M2C2H4R0CY21L	T	97.6/106.8
C546	4030018910	S.CER C1608 JB 0J 475K-T	B	40.4/56.7
C547	4030017760	S.CER ECJ0EB1H222K	T	53.7/72.1
C548	4030016930	S.CER ECJ0EB1A104K	T	14.1/120.6
C549	4030017420	S.CER ECJ0EC1H470J	T	23.1/86.8
C550	4030017420	S.CER ECJ0EC1H470J	T	70.1/82.6
C551	4030017330	S.CER ECJ0EF1C104Z	T	114.2/28.9
C552	4030016790	S.CER ECJ0EB1C103K	B	121.9/48.8
C553	4030016930	S.CER ECJ0EB1A104K	B	30.8/19.4
C555	4030016930	S.CER ECJ0EB1A104K	B	69.8/75.5
C556	4030016930	S.CER ECJ0EB1A104K	T	105.2/28.6
C557	4030016930	S.CER ECJ0EB1A104K	T	97/28.6
C558	4550006250	S.TAN TEESVA 1A 106M8R	T	95.1/27.9
C559	4550007080	S.TAN TEESVA 1C 106M8R	T	45.9/75.5
C562	4030017420	S.CER ECJ0EC1H470J	T	38.5/76.1
C563	4030016930	S.CER ECJ0EB1A104K	B	26.5/122.3
C564	4030017570	S.CER ECJ0EC1H040B	B	68.3/131.3
C565	4030017340	S.CER ECJ0EC1H010B	B	47.9/113.5
C566	4030018860	S.CER ECJ0EB0J105K	B	39/72.7
C571	4030017580	S.CER ECJ0EC1H060C	T	64.6/99.1
C572	4030017580	S.CER ECJ0EC1H060C	T	65.6/99.1
C573	4030017580	S.CER ECJ0EC1H060C	T	65.3/97.4
C574	4030017580	S.CER ECJ0EC1H060C	B	64/134.7
C575	4030017420	S.CER ECJ0EC1H470J	B	62.9/132.4
C576	4030017460	S.CER ECJ0EB1E102K	T	67.1/106.5
C577	4030017460	S.CER ECJ0EB1E102K	T	67.1/104.9
C578	4030017200	S.CER GRM31BR32J102KY01L	T	92/126
C579	4550006250	S.TAN TEESVA 1A 106M8R	B	94.7/50.6
C580	4030017420	S.CER ECJ0EC1H470J	T	100.7/73.5
C581	4030018910	S.CER C1608 JB 0J 475K-T	B	46.3/60.9
C582	4030018910	S.CER C1608 JB 0J 475K-T	T	69.7/98.2
C583	4030016930	S.CER ECJ0EB1A104K	B	46.3/58.6
C584	4030016790	S.CER ECJ0EB1C103K	B	54.9/55.3
C585	4030016930	S.CER ECJ0EB1A104K	B	54.9/58.6
C586	4030017730	S.CER ECJ0EB1E471K	B	54.9/56.9
C587	4030016790	S.CER ECJ0EB1C103K	B	52.3/59.8
C588	4030018910	S.CER C1608 JB 0J 475K-T	T	70.9/98.2
C601	4030011060	S.CER GRM31M2C2H4R0CY21L	T	97.6/111.3
C610	4030018080	S.CER ECJ0EB1H182K	T	63.3/69.6
C612	4030017460	S.CER ECJ0EB1E102K	B	55.7/29.9
C614	4030017730	S.CER ECJ0EB1E471K	B	29/13.2
C615	4030017650	S.CER ECJ0EC1H270J	B	63.2/117.5
C616	4030017460	S.CER ECJ0EB1E102K	T	93.8/64.6
C617	4030017420	S.CER ECJ0EC1H470J	T	60/64.8
C618	4030017420	S.CER ECJ0EC1H470J	T	64.9/53.3
C619	4030017420	S.CER ECJ0EC1H470J	T	74.2/107.7
C620	4030017420	S.CER ECJ0EC1H470J	T	73.7/96.8
C621	4030017420	S.CER ECJ0EC1H470J	T	31.5/2.8
C622	4030018910	S.CER C1608 JB 0J 475K-T	T	64.3/73.2
C623	4030017330	S.CER ECJ0EF1C104Z	B	126.8/16
C624	4030017330	S.CER ECJ0EF1C104Z	B	126.3/20.3
C625	4030017460	S.CER ECJ0EB1E102K	B	126.8/17.2
C626	4510009810	S.ELE EEEFK1E220R	B	129.4/23
J1	6510025220	S.CNR AXK540145J	T	23.1/63.7
J2	6510023091	S.CNR 20FLT-SM2-TB (LF) (SN)	T	14.8/15.6
J4	6510023511	S.CNR 28FLT-SM2-TB (LF) (SN)	T	70.8/102
J5	6510023110	CNR 3008L-8P8C <KIN>		
J6	6450000140	CNR HSJ0807-01-010		
J8	6510023091	S.CNR 20FLT-SM2-TB (LF) (SN)	T	59.1/15.6
J9	6510019371	S.CNR B3B-ZR-SM4-TF (LF) (SN)	T	94.6/14.3
J10	6510004910	CNR NR-DS-E 01		
J11	6510004910	CNR NR-DS-E 01		
DS1	5040002961	S.LED SML-A12MT T86J	B	96/1.1
DS2	5040002961	S.LED SML-A12MT T86J	B	126/1.1
DS3	5040003000	S.LED SML-A12UT-T86	B	111/1.1
MF1	2710000870	FAN AFB0512HB-7X22 <USE>HK		
W1	7120000470	JMP ERDS2T0		
W2	7120000470	JMP ERDS2T0		
W4	8900017520	CBL OPC-1783		
EP1	6910015370	S.BEA ACZ1005Y-102-T	B	129.1/48.4
EP2	6910015370	S.BEA ACZ1005Y-102-T	B	117.2/48.4
EP3	6910015370	S.BEA ACZ1005Y-102-T	B	32.4/81.6
EP4	6910016330	S.BEA MMZ1005S 601CT-S	B	30.4/60.5
EP5	6910015370	S.BEA ACZ1005Y-102-T	B	39/74.5
EP6	6910015370	S.BEA ACZ1005Y-102-T	B	37.8/109
EP7	6910016330	S.BEA MMZ1005S 601CT-S	B	40.7/36.7
EP8	6910015370	S.BEA ACZ1005Y-102-T	B	94.5/48.8
EP9	6910016330	S.BEA MMZ1005S 601CT-S	T	48.8/39.3
EP10	6910011560	BEA HF70BB4.5X5X1.6		
EP11	6910010280	BEA HF70BB9.5X10.4X4.9		
EP12	6910010280	BEA HF70BB9.5X10.4X4.9		
EP13	6910011330	TER OT-009 M3		
EP14	6910011330	TER OT-009 M3		

[CONNECT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
C601	4030017420	S.CER ECJ0EC1H470J	T	13.8/12.4
C602	4030017400	S.CER ECJ0EC1H220J	T	12.2/12.4
C603	4030017420	S.CER ECJ0EC1H470J	T	16.5/12.4
C604	4030017400	S.CER ECJ0EC1H220J	T	15/14.2
C605	4030017420	S.CER ECJ0EC1H470J	T	17.8/13.9
C606	4030017420	S.CER ECJ0EC1H470J	T	19.4/12.4
C607	4030017420	S.CER ECJ0EC1H470J	T	20.5/13.9
C608	4030017420	S.CER ECJ0EC1H470J	T	22.6/12.4
C609	4030017420	S.CER ECJ0EC1H470J	T	25.5/12.4
C610	4030017420	S.CER ECJ0EC1H470J	T	29.7/12.8
C611	4030017420	S.CER ECJ0EC1H470J	T	31/14.1
C612	4030017420	S.CER ECJ0EC1H470J	T	32.4/12.8
C613	4030017420	S.CER ECJ0EC1H470J	T	33.5/14.1
C614	4030017420	S.CER ECJ0EC1H470J	T	35.2/14.1
C615	4030017420	S.CER ECJ0EC1H470J	T	35.7/12.8
C616	4030017420	S.CER ECJ0EC1H470J	B	35.2/15.6
C617	4030017420	S.CER ECJ0EC1H470J	T	37.5/13.5
C618	4030017420	S.CER ECJ0EC1H470J	T	39.3/12.2
C619	4030017420	S.CER ECJ0EC1H470J	T	39.9/13.4
C620	4030017420	S.CER ECJ0EC1H470J	T	41.3/12.6
C621	4030017420	S.CER ECJ0EC1H470J	T	27.4/13.9
J601	6510026290	S.CNR IMSA-9631S-28Y921	B	22.8/16.2
J602	6510023210	CNR CD6125SA1J0 <CVI>		
S1	2260003070	S.SW MINISMDC150F/24-2	B	38.9/18
W601	8900017500	CBL OPC-1852 (P0.5,N28,L90)		

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

SECTION 8

MECHANICAL PARTS

[CHASSIS PARTS]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8810003361	SETSCREW (C) 3X6 ZC3	4
MP2	8810003361	SETSCREW (C) 3X6 ZC3	1
MP3	8110009330	3063 U-COVER	1
MP4	8110009340	3063 BOTTOM COVER	1
MP5	8930073980	3063 ANGLE	2
MP6	8930073990	3063 CENTER ANGLE	1
MP7	8810005771	SCREW BIH M3X8 ZK3	11
MP9	8810009061	SCREW M3X6 ZK3	7
MP10	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	2

[FRONT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
R551	7210003050	EVU-F2KFK3B14 10KB	1
J503	6450002210	3017-8821	1
DS500	5030002811	L4-0013TVY-2	1
DS501	5040002710	EMPG3338S	1
DS502	5040002710	EMPG3338S	1
DS503	5040002710	EMPG3338S	1
DS504	5040002710	EMPG3338S	1
S506	2250000511	RH70N1037E20-13F-2781	1
SP501	2510001221	C052SB500-14	1
W501	8900011800	OPC-1199	1
W502	8900017540	OPC-1785 (Incl. MP521, 522)	1
EP501	8930065150	SRCN-2781-SP-N-W	2
EP503	6910019600	LM-5	2
EP504	6910019610	LM-7	4
MP501	8930064260	2781 LCD HOLDER	1
MP502	8210021190	2781 REFLECTOR	1
MP503	8610012160	KNOB N-324 (Incl. MP505)	1
MP504	8610012150	KNOB N-325 (Incl. MP506)	1
MP505	8610007420	KNOB SPRING NO.6601	1
MP506	8610007510	KNOB SPRING NO.7800	1
MP507	8930064220	2781 KNOB RUBBER	1
MP508	8930075200	HIMELON SHEET (CY)	2
MP510	8930059000	2601 SP NET	1
MP511	8210024400	3063 FRONT PANEL	1
MP512	8930074160	3063 FRONT PLATE	1
MP513	8310070870	3063 WINDOW PLATE	1
MP514	8210024430	3063 M-PANEL	1
MP515	8930074000	3063 SP ANGLE	1
MP516	8110009350	3063 FRONT COVER	1
MP517	8930073820	3063 FRONT KEY	1
MP518	8930073910	3063 M-COVER	1
MP519	8930074020	3063 KNOB RUBBER	1
MP520	8930075010	3063 A-PACKING	1
MP521	8930074010	3063 CODE RUBBER	1
MP522	8110009090	2854 A-MODULER COVER	1
MP529	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	6
MP530	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	2
MP531	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	4
MP532	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	6
MP533	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	5

[CONNECT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J601	6510026290	IMSA-9631S-28Y921	1
J602	6510023210	CD6125SA1J0	1
S1*	2260003070	MINISMDC150F/24	1
W601	8900017500	OPC-1852	1

[MAIN UNIT]

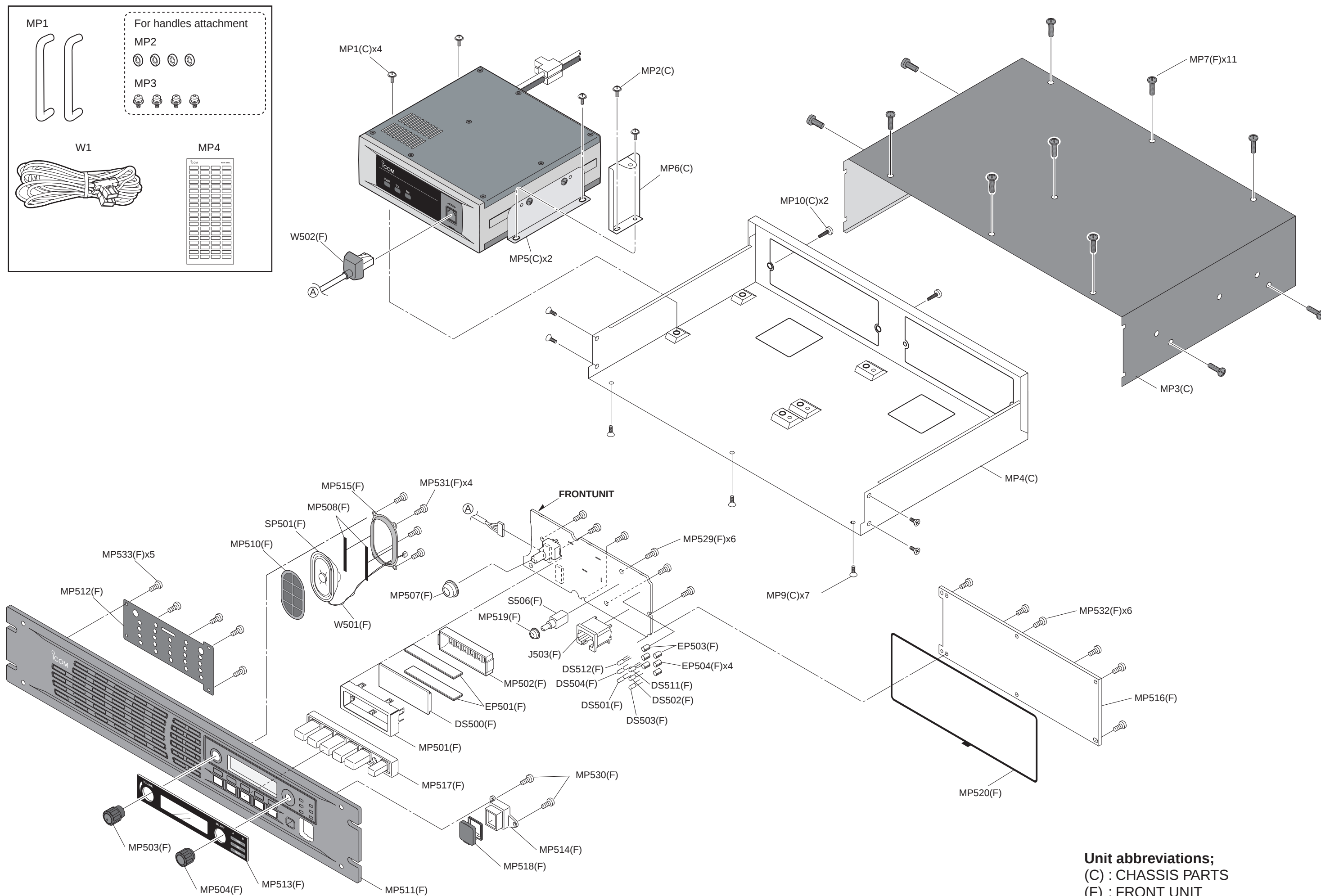
REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510025220	AXK540145J	1
J2*	6510023091	20FLT-SM2-TB (LF) (SN)	1
J4*	6510023511	28FLT-SM2-TB (LF) (SN)	1
J5	6510023110	3008L-8P8C	1
J6	6450000140	HSJ0807-01-010	1
J8*	6510023091	20FLT-SM2-TB (LF) (SN)	1
J9*	6510019371	B3B-ZR-SM4-TF (LF) (SN)	1
J10	6510004910	NR-DSE-01	1
J11	6510004910	NR-DSE-01	1
MF1	2710000870	AFB0512HB-F00	1
W1	7120000470	ERDS2T0	1
W2	7120000470	ERDS2T0	1
W4	8900017520	OPC-1783 (Incl. EP11)	1
EP10*	6910011560	HF70BB4.5X5X1.6	2
EP11	6910010280	HF70BB9.5X10.4X4.9	1
EP12	6910010280	HF70BB9.5X10.4X4.9	1
EP13	6910011330	OT-009 M3	1
EP14	6910011330	OT-009 M3	1
MP1	8510018070	2979 VCO CASE	1
MP2	8510018060	2979 VCO COVER	1
MP3	8510018070	2979 VCO CASE	1
MP4	8510018060	2979 VCO COVER	1
MP5	8210024440	3063 SUB M-PANEL	1
MP6	8310070880	3063 S-LED PLATE	1
MP7	8930073920	3063 SP COVER	1
MP8	8010020980	3063 CHASSIS	1
MP9	8110009360	3063 SU-COVER	1
MP10	8110009370	3063 SL-COVER	1
MP11	8930074300	3063 PC PLATE	1
MP12	8930074180	O-RING (BR)	1
MP13	8930075020	3063 B-PACKING	1
MP14	8930075030	3063 C-PACKING	1
MP15	8930073930	3063 SP RUBBER	1
MP16	8930058990	SHIELD SPONGE (V)	1
MP17	8930062160	HIMELON SHEET (CL)	1
MP18	8930070921	2979 D-SUB PLATE-1	1
MP19	8930058990	SHIELD SPONGE (V)	1
MP20	8510015660	2681 F-SHIELD PLATE	1
MP21	8930048550	2177 CLIP	1
MP22	8810008451	SCREW BIH M4X8 ZK3	4
MP23	8930075080	DUST CAP HR25F	1
MP24	8810009611	SCREW M2.6X6 ZK3	8
MP25	8810009611	SCREW M2.6X6 ZK3	9
MP26	8810010591	SCREW BT B0 3X20NI-ZC3 (BT)	4
MP27	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	16
MP28	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	2
MP29	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	1
MP30	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	2
MP31	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	3
MP32	8810008661	SCREW BT B0 3X8 NI-ZC3 (BT)	4
MP33	8510018780	3063 ANT CASE	2
MP35	8810003361	SETSCREW (C) 3X6 ZC3	2
MP37	8510018790	3063 VCO SHIELD	1
MP38	8510018820	3063 SHIELD PLATE	1

[ACCESSORIES]

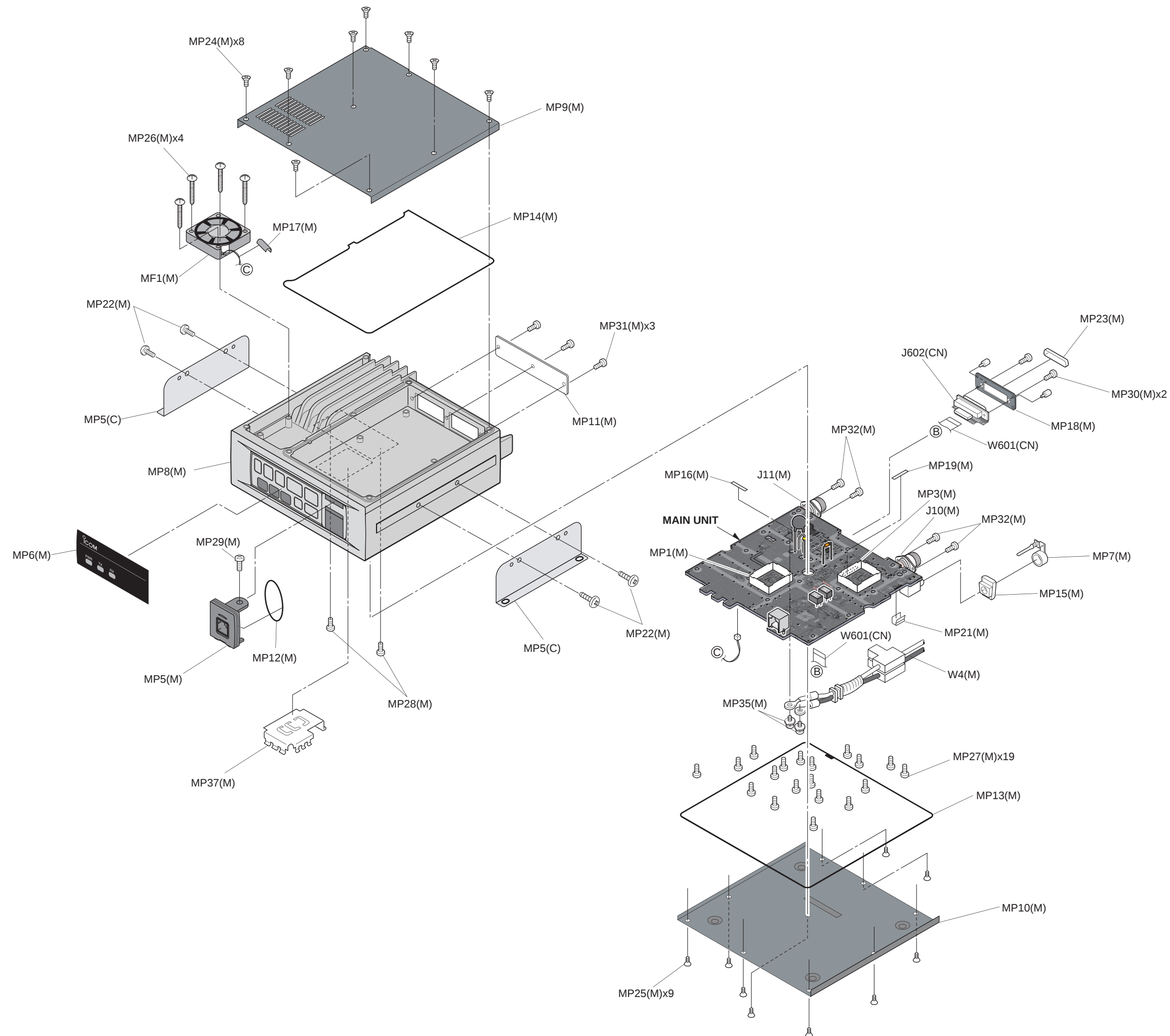
REF NO.	ORDER NO.	DESCRIPTION	QTY.
W1	8900017530	OPC-1784	1
MP1	8930074310	3063 HANDLE	2
MP2	8930074320	3063 H-SPACER	4
MP3	8810010740	SETSCREW (C) 4X12 ZK3	4
MP4	8310071490	3063 KEY SEAL	1

*: Refer to "BOARD LAYOUTS."

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



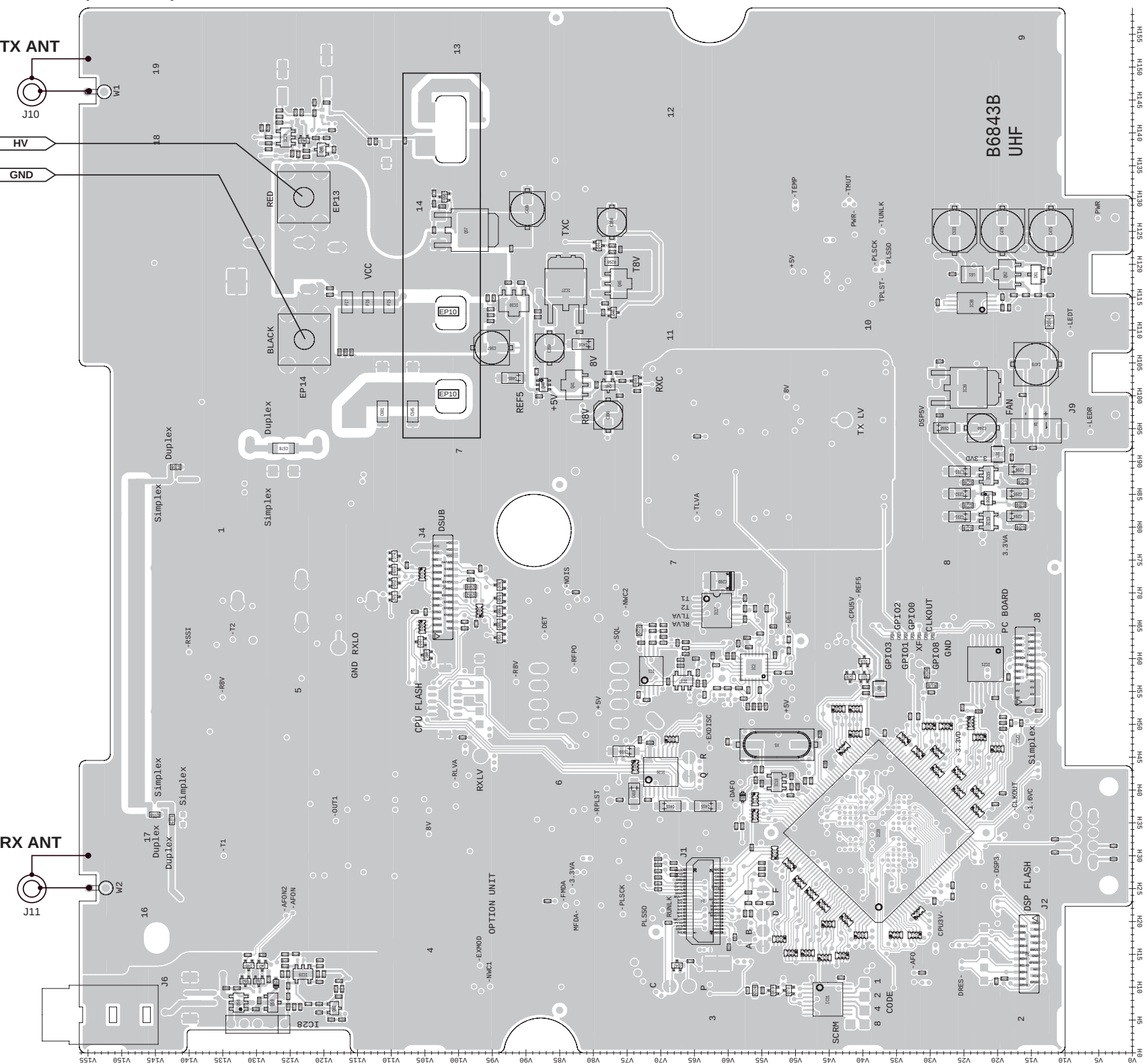
Unit abbreviations;
 (C) : CHASSIS PARTS
 (F) : FRONT UNIT
 (M) : MAIN UNIT
 (CN) : CONNECTOR UNIT



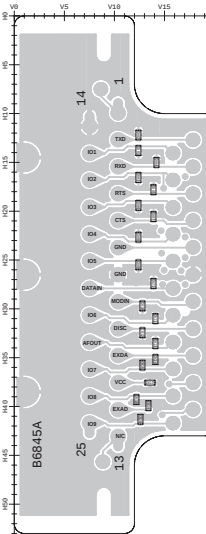
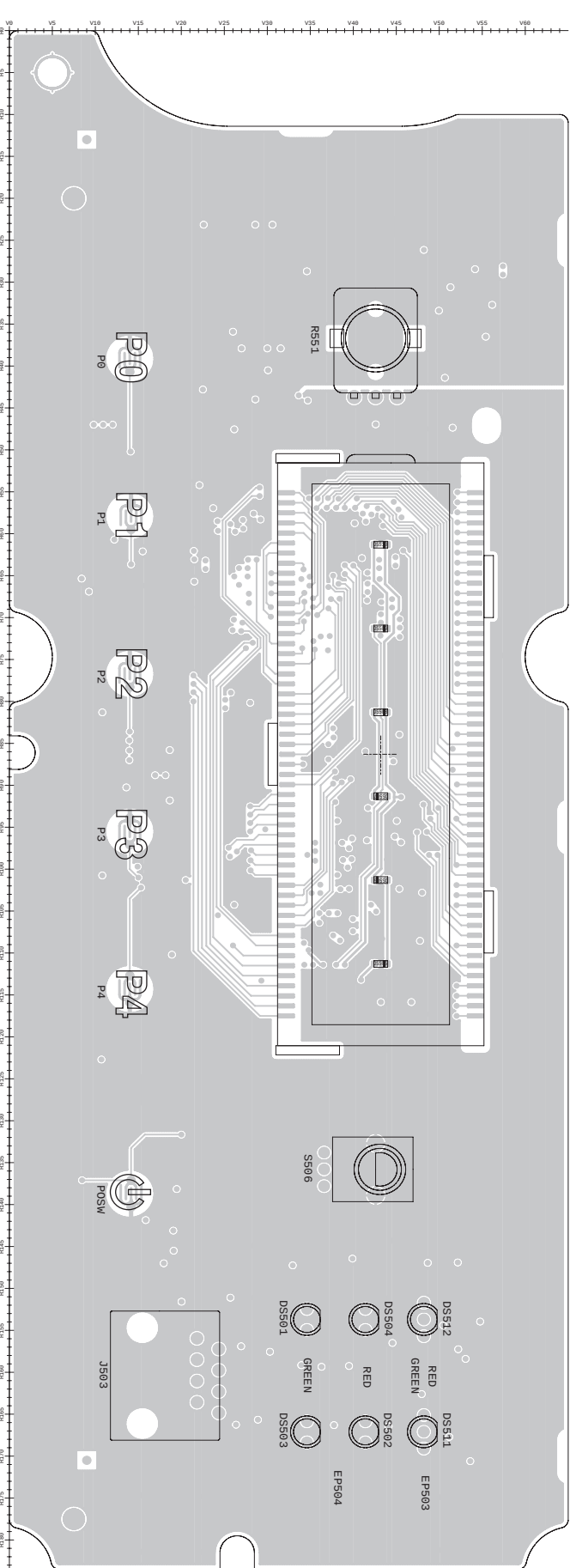
Unit abbreviations;
 (C) : CHASSIS PARTS
 (F) : FRONT UNIT
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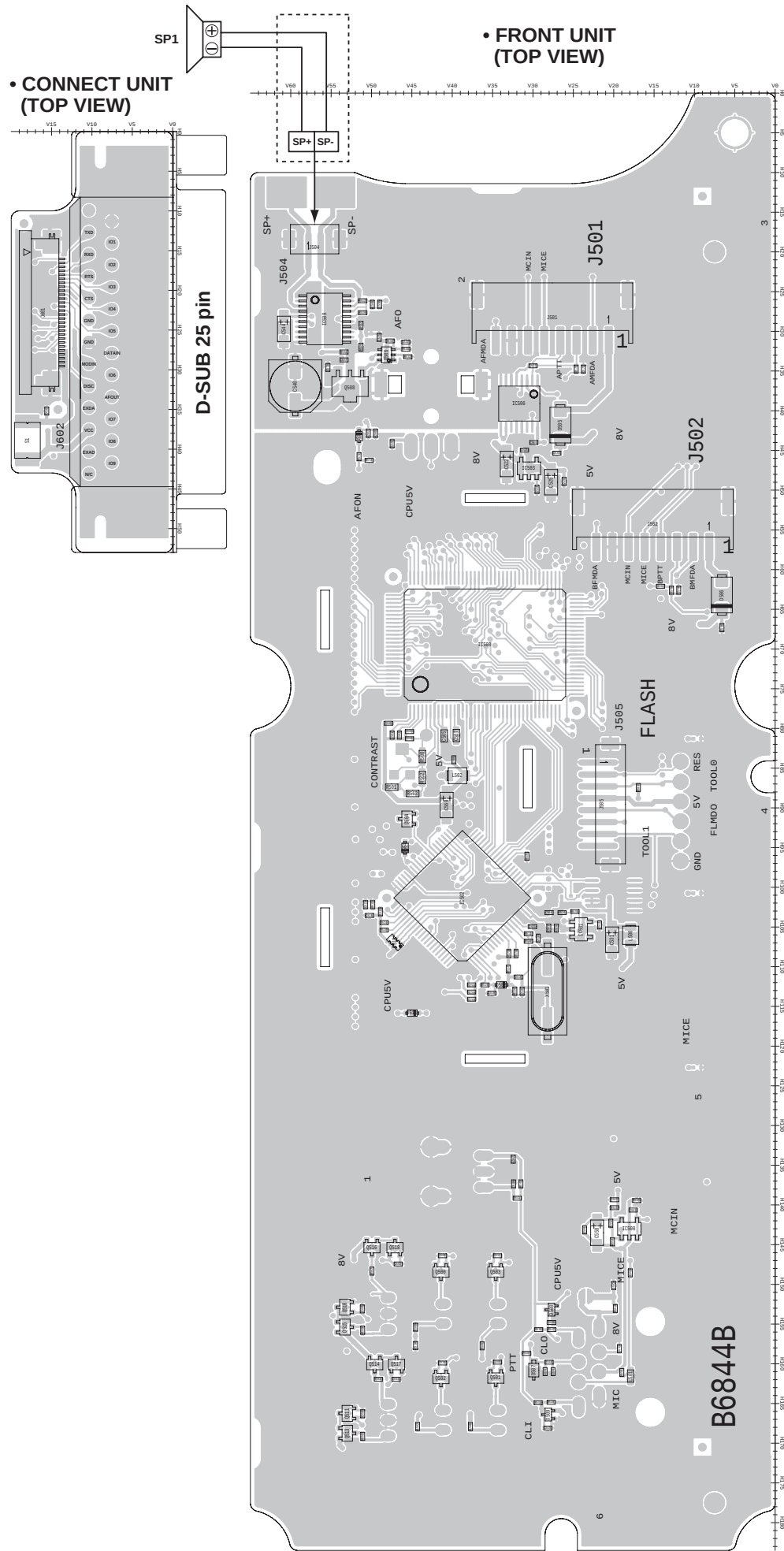
• FRONT UNIT
(TOP VIEW)

• MAIN UNIT
(TOP VIEW)

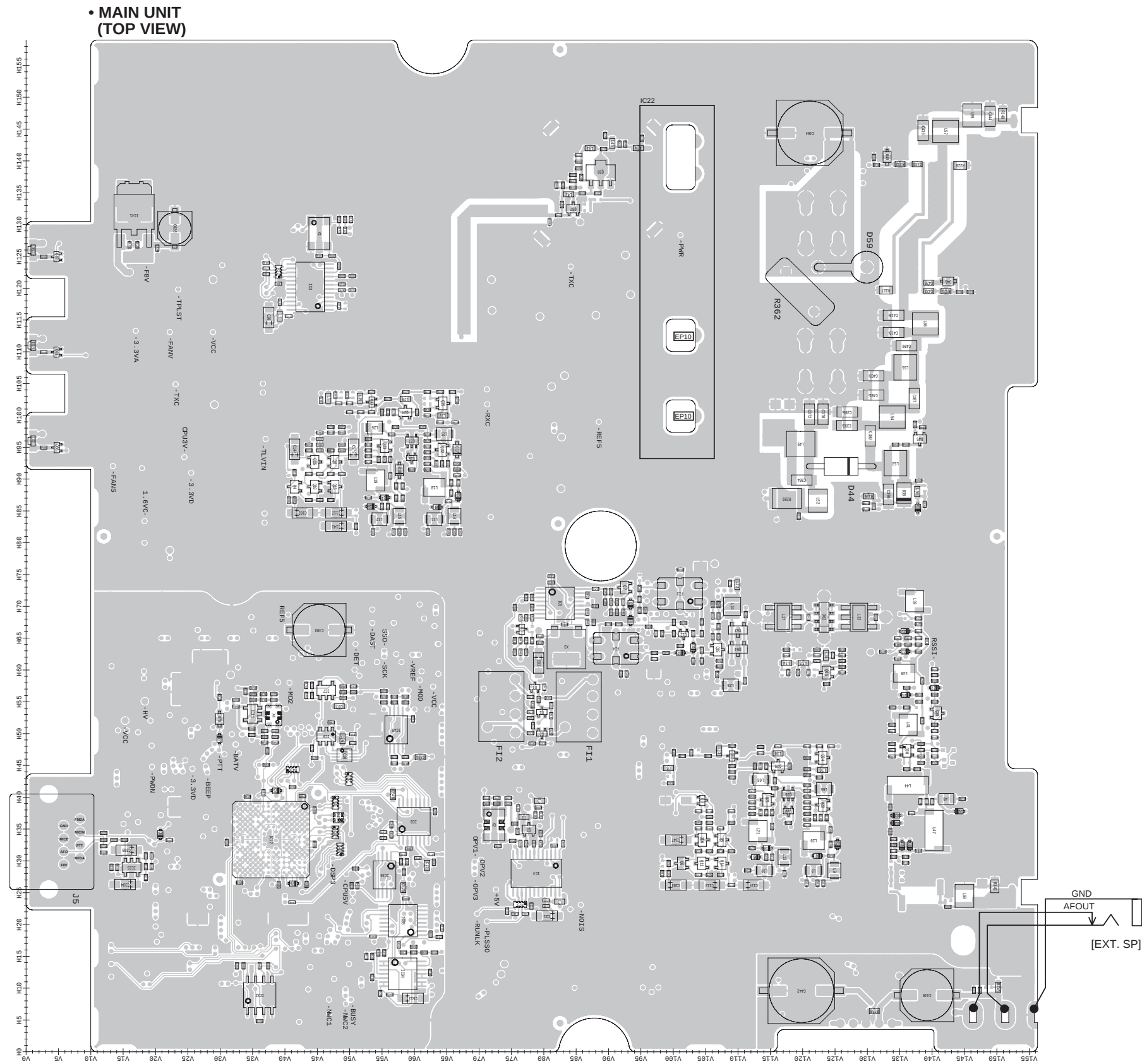


• CONNECT UNIT
(TOP VIEW)





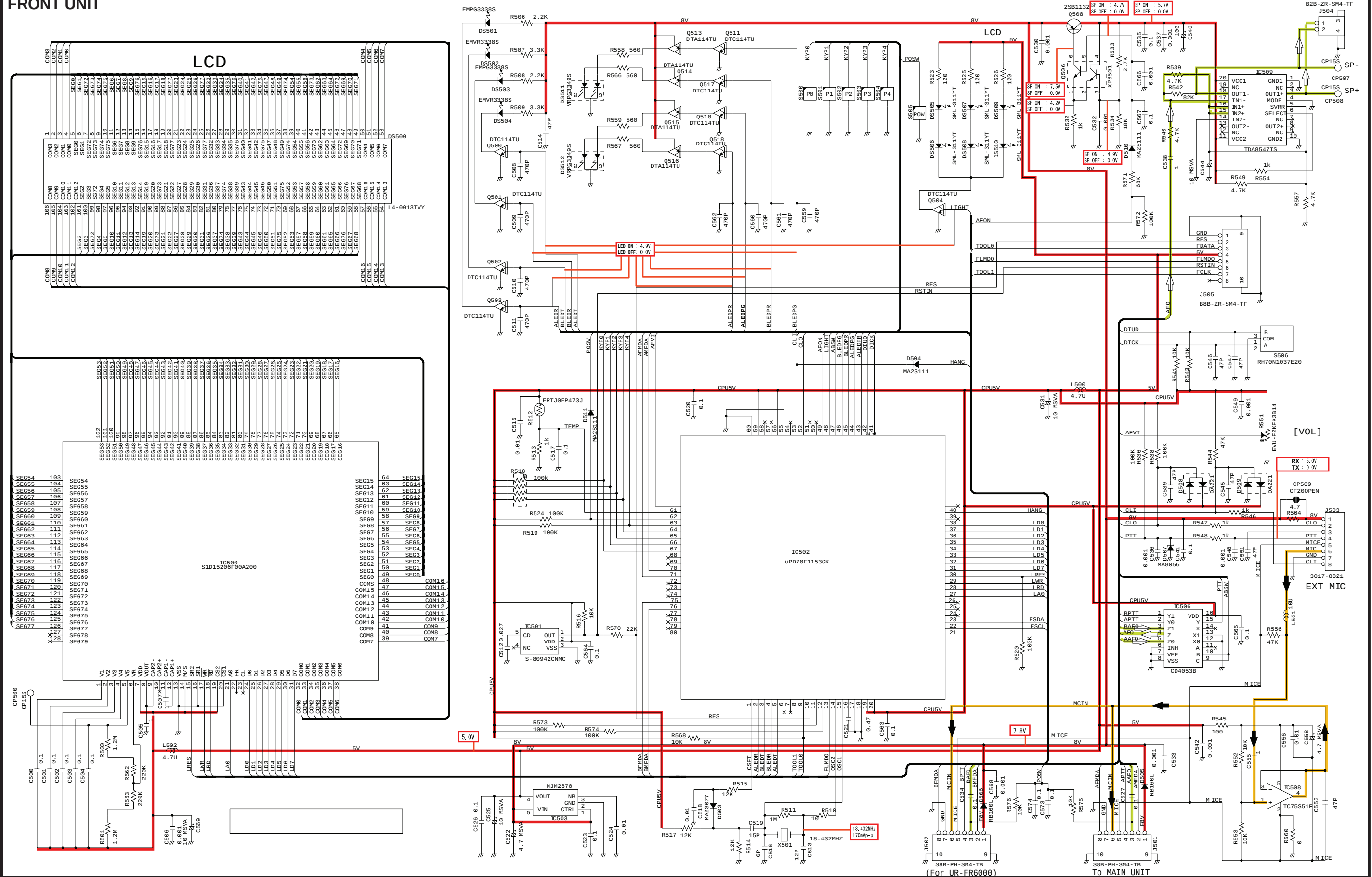
The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.



BLOCK DIAGRAM



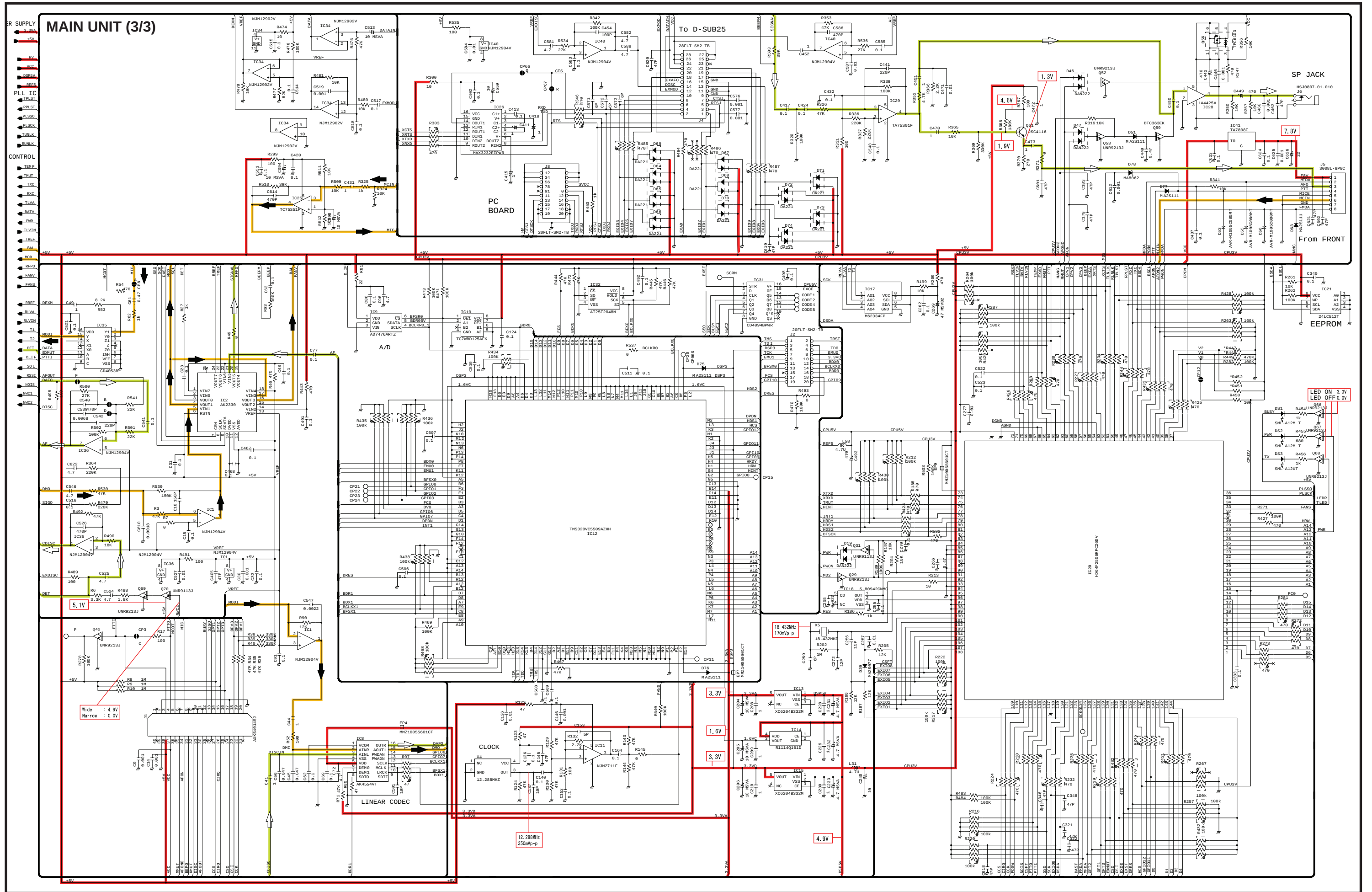
FRONT UNIT



*; Refer to "PARTS LIST."

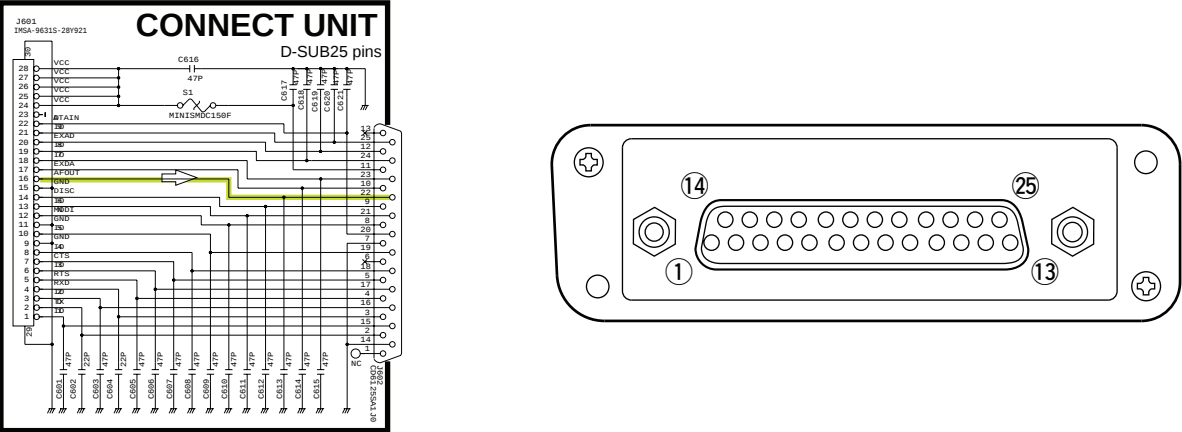






*; Refer to "PARTS LIST."

• ACCESSORY CONNECTOR (CONNECT UNIT) INFORMATION



Pin No.	Pin Name	Description	Specification
1	NC	No connection	—
2	TXD	Output terminal for serial communication data.	—
3	RXD	Input terminal for serial communication data.	—
4	RTS	Output terminal for request-to-send data.	—
5	CTS	Input terminal for clear-to-send data.	—
6	NC	No connection	—
7	GND	Serial/digital signal ground	—
8	MOD IN	Modulator input from an external terminal unit.	Input level: 300 mV rms
9	DISC OUT	Output terminal for AF signals from the AF detector circuit. Output level is fixed, regardless of [AF] control.	Output level: 300 mV rms
10	EXT. D/A	The desired function can be assigned.* (Default: Null)	—
11	VCC	13.6 V DC output	Output current: Less than 1 A
12	EXT. A/D	Customize A/D input (Not used)	—
13	NC	No connection	—
14	GND	Ground	—
15	EXT.I/O 15	The desired function can be assigned.* (Default: Null)	+5 V pull up, Active=L
16	EXT.I/O 16	The desired function can be assigned.* (Default: P0 Monitor Output)	+5 V pull up, Active=L
17	EXT.I/O 17	The desired function can be assigned.* (Default: Busy Output)	+5 V pull up, Active=L
18	EXT.I/O 18	The desired function can be assigned.* (Default: Null)	+5 V pull up, Active=L
19	EXT.I/O 19	The desired function can be assigned.* (Default: EPTT Input)	+5 V pull up, Active=L
20	DATA IN	Input terminal for data.	—
21	EXT.I/O 21	The desired function can be assigned.* (Default: Analog Audible Output)	+5 V pull up, Active=L
22	AF OUT	The AF detector Output.	—
23	EXT.I/O 23	The desired function can be assigned.* (Default: Mic Mute Output)	+5 V pull up, Active=L
24	EXT.I/O 24	The desired function can be assigned.* (Default: Null)	+5 V pull up, Active=L
25	EXT.I/O 25	The desired function can be assigned.* (Default: Mic Hanger Output)	+5 V pull up, Active=L

* The desired function can be assigned using the optional CS-FR5000 CLONING SOFTWARE. Ask your dealer for details.

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