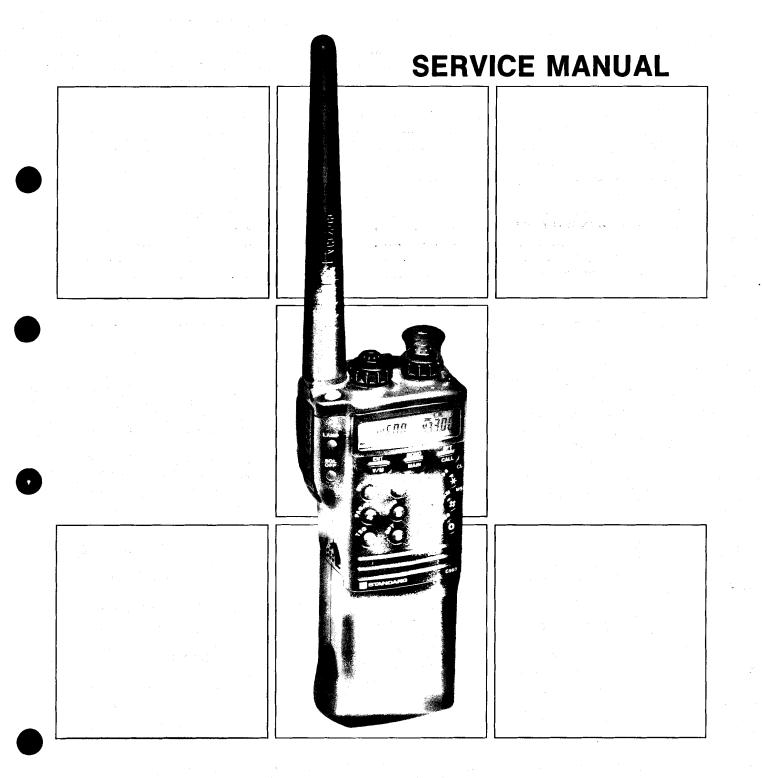


Twin-Band FM Transceiver

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1. INTRODUCTION

Overview of Transceiver

- This service manual is for use with the C568, C568S, and C568A transceivers.
- Information specific to the C568 is designated with the indication [C568].
- Information specific to the C568S is designated with the indication [C568S].
- Information specific to the C568A is designated with the indication [C568A].
- This product is a twin-band transceiver with transmission and reception functions for the 144 MHz and 430 MHz bands.
- It is also equipped with transmission and reception functions for the 1,200 MHz band (transmission output power: approximately 35 mW).

Accessories and Options

- The accessories and options for the transceiver are listed below.
- The transceiver already has a memory unit (4 kbit) installed.
- The C568A already has a tone squelch unit (CTN560) installed.
- Options marked with an asterisk (*) are compatible with the C568A only.

Accessories

- C568/C568S —
- Antenna

Options

- Owner's Manual
- Block diagram

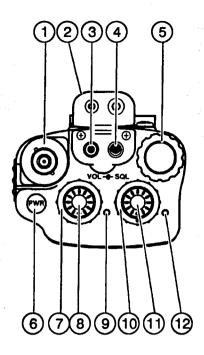
- C568A —
- Antenna
- Owner's Manual
- Warranty cardBlock diagram
- Rechargeable battery pack (CNB171)
- Wall charger (CWC150A)
- Mobile bracket
 Mabile bracket
 - CMB112 : Mobile bracket

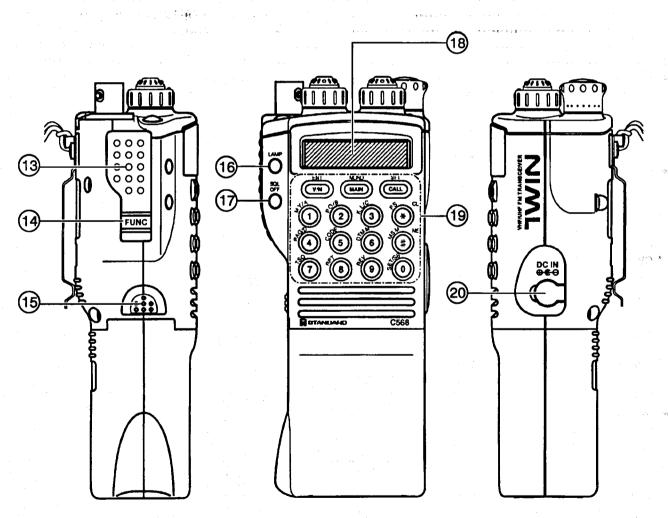
•	Cases	
	CLC560	: Soft case
		(For transceiver with
		CBT171/CNB171 mounted)
	CLC561	: Soft case
		(For transceiver with
		CNB172/CNB173 mounted)

- CLC562 : Hard case
 - CLC555 : Handy pocket
- Cover/clip
 - CAX03 : Bottom cover CMB600 : Helmet clip (for CHP150)
- Tone squelch unit CTN560 : CTCSS unit
- Memory units CMU160 : Memory unit (40-channel) CMU161 : Memory unit (200-channel)

- Microphones
 CHP111 : F
- CHP111 : Headset with PTT switch CHP150 : Headset with VOX function
- CMP111 : Microphone and speaker
- CMP113 : Tiepin microphone
 - CMP115 : Compact microphone and speaker
- Chargers
 - CSA181E : Desktop charger (input voltage: 220 V AC)
- CSA181A : Desktop charger (input voltage: 120 V AC)
- CWC115E : AC charger (input voltage: 220 V AC)
- CWC115A : AC charger (input voltage: 120 V AC) CWC150E : Wall charger for CNB171/CNB173
- (input voltage: 220 V AC)
- CWC150A : Wall charger for CNB171/CNB173 (input voltage: 120 V AC) CWC151E : Wall charger for CNB172
- (input voltage: 220 V AC) • CWC151A : Wall charger for CNB172 (input voltage: 120 V AC)
 - CMC150 : Mobile charger for CNB171/CNB173
- Rechargeable battery packs CNB171 : (7.2 V, 700 mAh) CNB172 : (12.0 V,600 mAh) CNB173 : (7.2 V,1,100 mAh)
- Battery case for AA size CBT171 : Battery case (holds 6 AA batteries)
- Cables
 - CAW150 : Mobile power supply cable
 - CAW151 : Base station power supply cable
 - CAW152 : Mobile power supply cable (with noise filter)

2. CONTROLS AND CONNECTIONS





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- (1) Antenna Connector Socket (BNC)
- Waterproof Cap

Always close this cap when the external microphone socket and external speaker socket are not in use.

3 MIC

External microphone socket

(4) SPK

External speaker socket

- (5) Rotary Channel Selector This knob is for setting the frequency. The rotary channel selector is also used to make various mode settings.
- 6 PWR (power key) Press this key to supply power to the transceiver.
- ⑦ VOL (volume control for left display band) This knob is the volume control for the left display band. Turn clockwise to increase the volume.
- (8) SQL (squelch control for left display band) This knob is the squelch control for the left display band.
- TX/BUSY (for left display band) This LED lights green when the SQL OFF key is pressed for the left display band or when a signal is received. It lights red when the PTT switch is pressed for the left display band.

(1) VOL (volume control for right display band) This knob is the volume control for the right display band. Turn clockwise to increase the volume.

① SQL (squelch control for right display band) This knob is the squelch control for the right display band.

12 TX/BUSY (for right display band)

This LED lights green when the SQL OFF key is pressed for the right display band or when a signal is received. It lights red when the PTT switch is pressed for the right display band.

(1) PTT (PTT switch)

The transceiver switches to the transmit mode for as long as this switch is held down.

(Generation Key)

The transceiver switches to the function mode for as long as this switch is held down. This mode is used to make a variety of special function settings.

13 Battery Lock Button

(LAMP (lamp key)

Pressing this key causes the display illumination lamp to light for approximately five seconds. Pressing this key with the function key held down causes the display illumination lamp to light continuously.

①SQL OFF (squelch off key)

Squelch is disabled for the main band for as long as this key is held down.

Pressing this key with the function key held down disables squelch for the sub-band.

Also, pressing the squelch off key during transmission on the main band disables squelch for the sub-band.

18 Display

19 Keyboard

(20) DC IN (external power supply connector socket) Make sure the transceiver is switched off before inserting or removing an external power supply plug. The power supply range when an external power supply is used is DC 5.0 V - DC 16.0 V.

3. THEORY OF OPERATION

The circuitry of the transceiver can be divided roughly into four blocks: the RF-UHF circuit block, the RF-VHF circuit block, the AF circuit block, and the control circuit block. Also, the RF circuitry for the right display bands (UHF band, 1.2 GHz band, and VHF band) and the left display bands (VHF band and UHF band) is composed of an separate P.C. board.

3.1 PLL Block

If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band

The UHF band PLL block comprises UHF-VCO P.C. board P702, VHF-VCO Q646, crystal oscillator X402, PLL IC Q653, and a PLL loop filter. UHF-VCO P.C. board P702 is composed of a UHF VCO circuit and a 1.2 GHz VCO circuit. UHF band VCO output and 1.2 GHz band VCO output are obtained from UHF-VCO P.C. board P702. Also, VHF band VCO output is obtained from

VHF-VCO Q646. Based on the operating frequency set using the rotary channel selector, clock, serial, and strobe signals are output from pins 17, 19, and 18 of microprocessor Q209. This output data is input to pins 11, 13, and 14 of PLL IC Q653. Based on the input data, the dividing ratio and frequency are determined internally by PLL IC Q653.

:Official

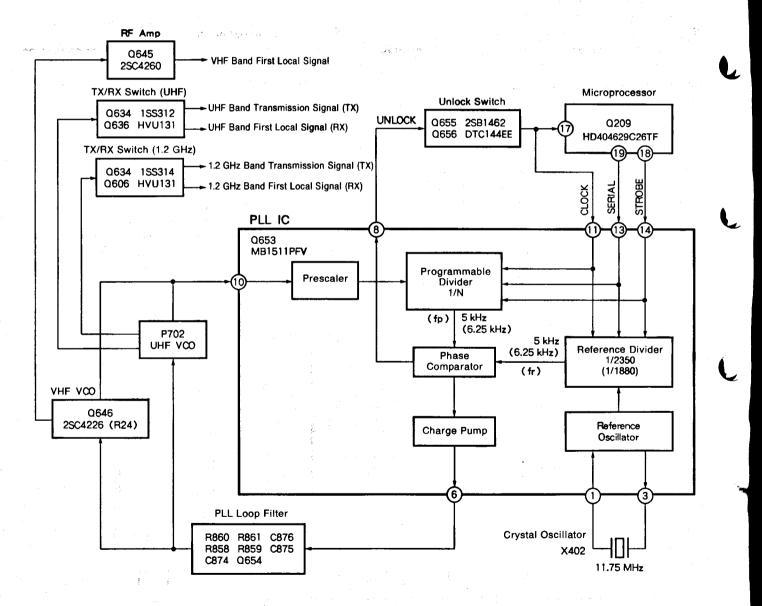


Figure 3-1 Right Display Band PLL Block Diagram

— If the transceiver's left display band is the VHF band or UHF band —

The VHF band PLL block comprises VHF-VCO P.C. board P701, crystal oscillator X402, PLL IC Q445, and a PLL loop filter. VHF-VCO P.C. board P701 is composed of a VHF VCO circuit and a UHF VCO circuit. VHF band VCO output and UHF band VCO output are obtained from VHF-VCO P.C. board P701. Based on the operating frequency set using the rotary channel selector, clock, serial data and strobe signals are output from pins 20, 19, and 21 of microprocessor Q209. This output data is input to pins 11, 13, and 14 of PLL IC Q445. Based on the input data, the dividing ratio and frequency are determined internally by PLL IC Q445.

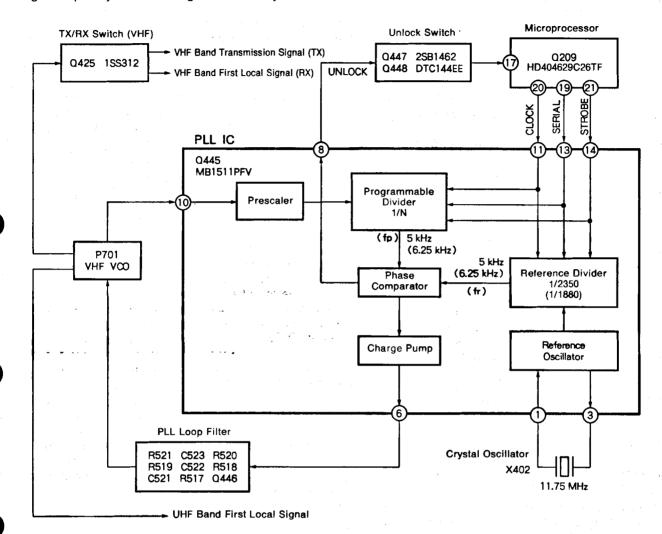


Figure 3-2 Left Display Band PLL Block Diagram

3.1.1 Programmable Divider

- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band -

The programmable divider consists of a 19-bit shift register, 18-bit latch, 7-bit swallow counter, and an 11-bit programmable counter. The oscillation frequencies from UHF-VCO P.C. board P702 and VHF-VCO Q646 pass through diode Q652 and are input to PLL IC Q653 pin 10. The input oscillation frequency passes through a prescaler built into the PLL IC and is input to the programmable divider. Also, data based on the operating frequency is input to the programmable divider from microprocessor Q209. Based on the data from microprocessor Q209, the programmable divider frequency divides the oscillation frequency to 1/N to produce a comparison frequency (fp) of 5 kHz or 6.25 kHz. This comparison frequency (fp) is then input to the phase comparator built into the PLL IC.

If the transceiver's left display band is the VHF band or UHF band —

The programmable divider consists of a 19-bit shift register, 18-bit latch, 7-bit swallow counter, and an 11-bit programmable counter. The oscillation frequency from VHF-VCO P.C. board P701 passes through pin 10 of PLL IC Q445 and is input to a prescaler built into the PLL IC. After passing through the prescaler, the oscillation frequency is input to the programmable divider. Also, data based on the operating frequency is input to the programmable divider from microprocessor Q209. Based on the data from microprocessor Q209, the programmable divider frequency divides the oscillation frequency to 1/N to produce a comparison frequency (fp) of 5 kHz or 6.25 kHz. This comparison frequency (fp) is then input to the phase comparator built into the PLL IC.

3.1.2 Reference Divider

- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band --

The reference divider is a circuit that creates a reference frequency (fr) of 5 kHz or 6.25 kHz based on data from microprocessor Q209. The reference divider consists of a 16-bit shift register, 15-bit latch, and a binary 14-bit reference counter. The 11.75 MHz reference oscillation frequency from crystal oscillator X402 passes through pin 1 of PLL IC Q653 and is input to the reference divider built into the PLL IC. At this point, if the tuning step setting is 5, 10, 15, 20, 25, 30, or 50 kHz, the 11.75 MHz oscillation frequency is frequency divided to 1/2,350 to produce a reference frequency of 5 kHz. If the tuning step setting is 6.25, 12.5 or 25 kHz, the 11.75 MHz oscillation frequency is frequency divided to 1/1,880 to produce a reference frequency of 6.25 kHz. The frequency divided reference frequency (fr) is then input to the phase comparator built into PLL IC Q653.

If the transceiver's left display band is the VHF band or UHF band —

The reference divider is a circuit that creates a reference frequency (fr) of 5 kHz or 6.25 kHz based on data from microprocessor Q209. The reference divider consists of a 16-bit shift register, 15-bit latch, and a binary 14-bit reference counter. The 11.75 MHz reference oscillation frequency from crystal oscillator X402 passes through pin 1 of PLL IC Q445 and is input to the reference divider built into the PLL IC. At this point, if the tuning step setting is 5, 10, 15, 20, 25, 30, or 50 kHz. the 11.75 MHz oscillation frequency is frequency divided to 1/2,350 to produce a reference frequency of 5 kHz. If the tuning step setting is 6.25, 12.5 or 25 kHz. the 11.75 MHz oscillation frequency is frequency divided to 1/1,880 to produce a reference frequency of 6.25 kHz. The frequency divided reference frequency (fr) is then input to the phase comparator built into PLL IC Q445.

3.1.3 Phase Comparator

If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band

The phase comparator built into PLL IC Q653 compares the frequency divided comparison frequency (fp) from the programmable divider and the frequency divided reference frequency (fr) from the reference divider to determine the phase difference. The phase comparator outputs this phase difference as a square wave. This square wave is input to the charge pump built into PLL IC Q653.

If the transceiver's left display band is the VHF band or UHF band —

The phase comparator built into PLL IC Q445 compares the frequency divided comparison frequency (fp) from the programmable divider and the frequency divided reference frequency (fr) from the reference divider to determine the phase difference. The phase comparator outputs this phase difference as a square wave. This square wave is input to the charge pump built into PLL IC Q445.

If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band



The square wave output from the phase comparator built into PLL IC Q653 passes through the charge pump and is output from pin 6 of PLL IC Q653. (See Table 3-1 regarding the square wave level.) The charge pump is used to charge and discharge the electrical charge accumulated in the PLL loop filter consisting of R860, R861, C876, R858, R859, C875, and C874.

	Table 3-1
Output relationship	Output level of PLL IC Q653 pin 6
fr > fp	High (8 V)
fr = fp	High impedance
fr < fp	Low (0 V)

fr: Reference frequency fp: Comparison frequency

If the transceiver's left display band is the VHF band or UHF band —

The square wave output from the phase comparator built into PLL IC Q445 passes through the charge pump and is output from pin 6 of PLL IC Q445. (See Table 3-2 regarding the square wave level.) The charge pump is used to charge and discharge the electrical charge accumulated in the PLL loop filter consisting of R520, C523, R521, R518, C522, R519, C521 and R517.

	Table 3-2
Output relationship	Output level of PLL IC Q445 pin 6
fr > fp	High (8 V)
fr = fp	High impedanc e
fr < fp	Low (0 V)

fr: Reference frequency fp: Comparison frequency

3.1.5 PLL Loop Filter (Low-Pass Filter)

— If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band —

The PLL loop filter consisting of R860, R861, C876, R858, R859, C875, and C874 integrates the square wave output from pin 6 of PLL IC Q653, converting it into a DC voltage (UHF band: 2.3 V - 3.0 V during reception, 3.7 V - 4.4 V during transmission [C568/-C568S], 2.7 V - 3.5 V during reception, 4.2 V - 5.0 Vduring transmission [C568A]/1.2 GHz band: 1.2 V - 3.1V during reception, 1.8 V - 4.0 V during transmission-/VHF band: 0.3 V - 0.7 V during reception [C568/-C568A], 0.3 V - 0.5 V during reception [C568/-C568A], 0.3 V - 0.5 V during reception [C568/-C568A], 0.3 V - 0.5 V during reception is input to a varicap diode on UHF-VCO P.C. board P702 and VHF band varicap diodes Q647 and Q648.

If the transceiver's left display band is the VHF band or UHF band —

The PLL loop filter consisting of R520, C523, R521, R518, C522, R519, C521 and R517 integrates the square wave output from pin 6 of PLL IC Q445, converting it into a DC voltage (VHF band: 0.7 V - 1.1 V during reception, 1.4 V - 1.8 V during transmission [C568/C568A], 0.7 V - 0.9 V during reception, 1.4 V - 1.6 V during transmission [C568S]/UHF band: 2.0 V - 2.4 V during reception [C568/C568S], 2.3 V - 2.7 V during reception [C568A]). The DC voltage produced by the conversion is input to a varicap diode on VHF-VCO P.C. board P701.

3.1.6 VCO Circuit

 If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band —

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galares pro

(UHF band/1.2 GHz band)

If the right-hand portion of the transceiver's display shows the UHF band, the UHF VCO circuit built into UHF-VCO P.C. board P702 operates during transmission and reception. The power supply voltage for the UHF VCO circuit on UHF-VCO P.C. board P702 is supplied by 3.2 V regulators Q810 and Q811. Power supply switching is controlled by data from microprocessor Q209.

Power supply switching operation is illustrated in Table 3-3.

Also, if the right-hand portion of the transceiver's display shows the 1.2 GHz band, the 1.2 GHz VCO circuit built into UHF-VCO P.C. board P702 operates during transmission and reception. The power supply voltage for the 1.2 GHz VCO circuit on UHF-VCO P.C. board P702 is supplied by 3.2 V regulators Q810 and Q811.

Right Display Band (UHF Band) VCO Power Supply Operation

Table 3-3

Transceiver right display band	Shift register IC Q819 pin 6	+	UHF/VHF VCO power switch Q817 (UHF VCO side)	+	UHF-VCO P.C. board P702 UHF VCO circuit
UHF band	Low	\rightarrow	On	\rightarrow	3.2 V supplied

2.000

Power supply switching is controlled by data from microprocessor Q209.

Power supply switching operation is illustrated in Table 3-4.

The DC voltage converted by the PLL loop filter consisting of R860, R861, C876, R858, R859, C875, and C874 is input to a varicap diode on UHF-VCO P.C. board P702. This DC voltage changes the capacitance between the electrodes of the varicap diode, thereby controlling the oscillation frequency of the UHF VCO circuit and 1.2 GHz VCO circuit built into UHF-VCO P.C. board P702.

• UHF Band First Local Oscillator Circuit

When the transceiver is in receive status, the oscillation frequency from UHF-VCO P.C. board P702 is amplified 10 dB by a buffer amplifier built into the UHF-VCO P.C. board. The amplified oscillation frequency passes through TX/RX switches Q634 and Q636, and is then input to the base of first mixer Q630 as an approximately –3 dBm first local signal (fvco-u). TX/RX switches Q634 and Q636 are controlled by data from microprocessor Q209.

The operation of TX/RX switches Q634 and Q636 is illustrated in Table 3-5.

• UHF Band Frequency Modulator Circuit

When the transceiver is in transmit status, the audio signal from the microphone passes through microphone amplifier Q222 and is input to UHF-VCO P.C. board P702. The audio signal input to UHF-VCO P.C. board P702 is input to a UHF band modulator varicap diode built into the UHF-VCO P.C. board, where it is frequency modulated. The frequency modulated oscillation frequency is amplified 10 dB by a buffer amplifier built into the UHF-VCO P.C. board, then output from UHF-VCO P.C. board P702 as the transmission signal. The transmission signal output from UHF-VCO P.C. board P702 passes through TX/RX switches Q634 and Q636, and is input to the transmitter circuit.

The operation of TX/RX switches Q634 and Q636 is illustrated in Table 3-5.

• 1.2 GHz Band First Local Oscillator Circuit

When the transceiver is in receive status, the oscillation frequency from UHF-VCO P.C. board P702 is amplified 10 dB by a buffer amplifier built into the UHF-VCO P.C. board. The amplified oscillation frequency is amplified a further 10 dB by buffer amplifier Q633, then input to TX/RX switches Q632 and Q606. After passing through TX/RX switches Q632 and Q606, the oscillation frequency is input to the base of first mixer Q622 as an approximately -20 dBm first local signal (fvco-g). TX/RX switches Q632 and Q606 are controlled by data from microprocessor Q209.

The operation of TX/RX switches Q632 and Q606 is illustrated in Table 3-6.

Right Display Band (1.2 GHz Band) VCO Power Supply Operation

Table 3-4

Table 3-5

Table 3-6

Transceiver right display band	Shift register IC Q818 pin 7	>	1.2G RX power switch Q813 (1.2 GHz VCO side)	→	UHF-VCO P.C. board P702 1.2 GHz VCO circuit
1.2 GHz band	Low _	→	On	\rightarrow	3.2 V supplied

Switching Operation of TX/RX Switches Q634 and Q636

Transceiver status	Shift register -		Transistor switch		TX/RX switches		
	Q818 pin 12	Low	UHF RX power switch Q816	On	RX side Q634	On	
Receive status	Q818 pin 13	High	UHF TX/PLL IC power switch Q815	Off	TX side Q636	Off	
—	Q818 pin 12	High	UHF RX power switch Q816	Off	RX side Q634	Off	
Transmit status	Q818 pin 13	Low	UHF TX/PLL IC power switch Q815	On	TX side Q636	On	

Switching Operation of TX/RX Switch Q632

Transcelver status	Shift register IC —		Transistor switch	> TX/RX switch		
	Q818 pin 6	Low	1.2 G RX power switch Q813	On	RX side Q632	On
Receive status	Q819 pin 11 pin 13	Low High	UHF/1.2 G TX power switches Q806 and Q807 5 V regulators Q804 and Q805	Off Off	TX side Q606	Off
	Q818 pin 6	High	1.2 G RX power	Off	RX side Q632	Off
Transmit status	Q819 pin 11 pin 13	High Low	UHF/1.2 G TX power switches Q806 and Q807 5 V regulators Q804 and Q805	On On	TX side Q606	On

• 1.2 GHz Band Frequency Modulator Circuit

When the transceiver is in transmit status, the audio signal from the microphone passes through microphone amplifier Q222 and is input to UHF-VCO P.C. board P702. The audio signal input to UHF-VCO P.C. board P702 is input to a 1.2 GHz band modulator varicap diode built into the UHF-VCO P.C. board, where it is frequency modulated. The frequency modulated oscillation frequency is amplified 10 dB by a buffer amplifier built into the UHF-VCO P.C. board, then amplified an additional 10 dB by buffer amplifier Q633. The amplified oscillation frequency passes through TX/RX switches Q632 and Q606, and is input to the transmitter circuit as the transmission signal.

TX/RX switches Q632 and Q606 are controlled by data from microprocessor Q209.

The operation of TX/RX switches Q632 and Q606 is illustrated in Table 3-6.

(VHF band)

If the right-hand portion of the transceiver's display shows the VHF band, VHF-VCO Q646 operates during reception. The power supply voltage for VHF-VCO Q646 is supplied by 3.2 V regulators Q810 and Q811. Power supply switching is controlled by data from microprocessor Q209.

Power supply switching operation is illustrated in Table 3-7.

The DC voltage converted by the PLL loop filter consisting of R860, R861, C876, R858, R859, C875, and C874 is input to VHF band varicap diodes Q647 and Q648.

This DC voltage changes the capacitance between the electrodes of the varicap diodes, thereby controlling the oscillation frequency of VHF-VCO Q646. Also, the VHF VCO circuit on VHF-VCO P.C. board P701 operates during transmission. The power supply voltage for the VHF VCO circuit on VHF-VCO P.C. board P701 is

supplied by 3.2 V regulators Q457 and Q458. Power supply switching is controlled by data from microprocessor Q209.

Power supply switching operation is illustrated in Table 3-8.

The DC voltage converted by the PLL loop filter consisting of R520, C523, R521, R518, C522, R519, C521 and R517 is input to a varicap diode built into VHF-VCO P.C. board P701.

This DC voltage changes the capacitance between the electrodes of the varicap diode, thereby controlling the oscillation frequency of the VHF VCO circuit on VHF-VCO P.C. board P701.

• VHF Band First Local Oscillator Circuit

When the transceiver is in receive status, the oscillation frequency from VHF-VCO Q646 is amplified 20 dB by RF amplifier Q645. The amplified oscillation frequency is input to the base of first mixer Q650 as an approximately -19 dBm first local signal (fvco-v).

• VHF Band Frequency Modulator Circuit

When the transceiver is in transmit status, the audio signal from the microphone passes through microphone amplifier Q222 and is input to VHF-VCO P.C. board P701. The audio signal input to VHF-VCO P.C. board P701 is input to a VHF band modulator varicap diode built into the VHF-VCO P.C. board, where it is frequency modulated. The frequency modulated oscillation frequency is amplified 10 dB by a buffer amplifier built into the VHF-VCO P.C. board, then output from VHF-VCO P.C. board P701 as the transmission signal. The transmission signal output from VHF-VCO P.C. board P701 passes through TX/RX switch Q425 and is input to the transmitter circuit. TX/RX switch Q425 is controlled by data from microprocessor Q209.

The operation of TX/RX switch Q425 is illustrated in Table 3-9.

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Right Display Band (VHF Band) VCO Power Supply Operation

Table 3-7

Transceiver right display band	Shift register IC Q819 pin 5 —	UHF/VHF VCO power switch Q817 (VHF VCO side)	+	VHF-VCO Q646
VHF band	Low –	→ On	\rightarrow	3.2 V supplied

Right Display Band (VHF Band) VCO Power Supply Operation

Transcelver right display band	Shift register IC Q454 pin 7 —	VHF VCO power switch → Q455	→	VHF-VCO P.C. board P701 VHF VCO circuit
VHF band	Low _	→ On ·	→	3.2 V supplied

Switching Operation of TX/RX Switch Q425

Transcelver status	Shlft regist	er IC -	Transistor switch	\rightarrow	→ TX/RX switch Q425		
Transmit status	Q449 pin 6	High	VHF RX power switch Q452	Off	RX side	Off	
Transmit status	Q454 pin 4	Low	5 V regulators Q421 and Q422	On	TX side	On	
	Q449 pin 6	Low	VHF RX power switch Q452	On	RX side	On	
Receive status	Q454 pin 4	High	5 V regulators Q421 and Q422	Off	TX side	Off	

Table 3-9

Table 3-8

— If the transceiver's left display band is the VHF band or UHF band —

(VHF band)

If the left-hand portion of the transceiver's display shows the VHF band, the VHF VCO circuit on VHF-VCO P.C. board P701 operates during transmission and reception.

The power supply voltage for the VHF VCO circuit on VHF-VCO P.C. board P701 is supplied by 3.2 V regulators Q457 and Q458.

Power supply switching operation is identical to that illustrated in Table 3-8.

The DC voltage converted by the PLL loop filter consisting of R520, C523, R521, R518, C522, R519, C521 and R517 is input to a varicap diode built into VHF-VCO P.C. board P701.

This DC voltage changes the capacitance between the electrodes of the varicap diode, thereby controlling the oscillation frequency of the VHF VCO circuit on VHF-VCO P.C. board P701.

• VHF Band First Local Oscillator Circult

When the transceiver is in receive status, the oscillation frequency from the VHF-VCO P.C. board P701 is amplified 10 dB by a buffer amplifier built into the VHF-VCO P.C. board. The amplified oscillation frequency passes through TX/RX switch Q425 and is input to the source of first mixer Q433 as an approximately -7 dBm first local signal (fvco-v). The operation of TX/RX switch Q425 is identical to that illustrated in Table 3-9.

• VHF Band Frequency Modulator Circuit

Operation is identical to when right-hand portion of the transceiver's display shows the VHF band.

(UHF band) 👘 🕬

If the left-hand portion of the transceiver's display shows the UHF band, the UHF VCO circuit on VHF-VCO P.C. board P701 operates during reception.

The power supply voltage for the UHF VCO circuit on VHF-VCO P.C. board P701 is supplied by 3.2 V regulators Q457 and Q458.

Power supply switching operation is controlled by data from microprocessor Q209.

Power supply switching operation is illustrated in Table 3-10.

The DC voltage converted by the PLL loop filter consisting of R520, C523, R521, R519, C522, R518, C521 and R517 is input to a varicap diode built into VHF-VCO P.C. board P701.

This DC voltage changes the capacitance between the electrodes of the varicap diode, thereby controlling the oscillation frequency of the VHF VCO P.C. on VHF-VCO P.C. board P701.

Also, the UHF VCO circuit on UHF-VCO P.C. board P702 operates during transmission.

• UHF Band First Local Oscillator Circuit

When the transceiver is in receive status, the oscillation frequency from VHF-VCO P.C. board P701 is amplified 10 dB by a buffer amplifier built into the UHF-VCO P.C. board. The amplified oscillation frequency is input to the base of first mixer Q953, which is built into VHF-SUB P.C. board P901, as an approximately -3 dBm first local signal (fvco-u).

UHF Band Frequency Modulator Circuit

Operation is identical to when right-hand portion of the transceiver's display shows the UHF band.

Table 3-10

Left Display Band (UHF Band) VCO Power Supply Operation

Transcelver left display band	Shift register IC Q454 pln 12 ⁻		UHF VCO power/VHF shift switch Q453 (UHF VCO side)		VHF-VCO P.C. board P701 UHF VCO circuit
UHF band	Low -	→	On	→	3.2 V supplied

If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band —

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The unlock detect circuit determines whether the PLL circuit is locked or unlocked by means of output from pin 8 of PLL IC Q653 to pin 17 of microprocessor Q209. If the phase comparator built into PLL IC Q653 detects no phase difference (PLL circuit locked), it produces a high level output. This high level output signal is input to unlock switches Q655 and Q656, causing them to turn off. When Q655 and Q656 switch off, a high level output signal is input to pin 17 of microprocessor Q209. The high level input causes microprocessor Q209 to determine that the PLL circuit is locked.

If there is a phase difference (PLL circuit unlocked), the phase comparator produces a low level output. This low level output signal is input to unlock switches Q655 and Q656, causing them to turn on. When Q655 and Q656 switch on, a low level output signal is input to pin 17 of microprocessor Q209. The low level input causes microprocessor Q209 to determine that the PLL circuit is unlocked.

If the transcelver's left display band is the VHF band or UHF band ---

The unlock detect circuit determines whether the PLL circuit is locked or unlocked by means of output from pin 8 of PLL IC Q445 to pin 17 of microprocessor Q209. If the phase comparator built into PLL IC Q445 detects no phase difference (PLL circuit locked), it produces a high level output. This high level output signal is input to unlock switches Q447 and Q448, causing them to turn off. When Q447 and Q448 switch off, a high level output signal is input to pin 17 of microprocessor Q209. The high level input causes microprocessor Q209 to determine that the PLL circuit is locked.

If there is a phase difference (PLL circuit unlocked), the phase comparator produces a low level output.

This low level output signal is input to unlock switches Q447 and Q448, causing them to turn on. When Q447 and Q448 switch on, a low level output signal is input to pin 17 of microprocessor Q209. The low level input causes microprocessor Q209 to determine that the PLL circuit is unlocked.

3.2 Receiver Block

- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band --

The reception method is double-conversion super heterodyne with a first IF frequency of 23.05 MHz (lower) and a second IF frequency of 450 kHz (upper).

The receiver block comprises an RF amplifier circuit, first mixer circuit, first IF amplifier circuit, second IF circuit, and audio circuit.

- If the transceiver's left display band is the VHF band or UHF band -

The reception method is double-conversion super heterodyne with a first IF frequency of 21.80 MHz (lower) and a second IF frequency of 455 kHz (lower).

The receiver block comprises an RF amplifier circuit, first mixer circuit, first IF amplifier circuit, second IF circuit, and audio circuit.

Antenna Switch Circuit Operation (UHF) Band

3.2.1 RF Amplifier Circuit

- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band --

(UHF band)

The reception frequency (fnx-u) from antenna connector socket J603 passes through a low-pass filter consisting of C607, C608, L601, L602, and L603 and a high-pass filter consisting of C621, C622, and L607 before being input to an antenna switch circuit consisting of Q613, Q614, Q615, Q616, and Q619.

The operation of the antenna switch circuit is illustrated in Table 3-11.

After passing through the antenna switch circuit, the reception frequency passes through band-pass filter L610 and is input to RF amplifier Q624. The input reception frequency is amplified by approximately 20 dB by RF amplifier Q624, then input to a band-pass filter consisting of L611 and L612. After again passing through a band-pass filter, the reception frequency is input to RF amplifier Q627, where it is amplified by approximately 20 dB. The amplified reception frequency passes through a band-pass filter consisting of L613 and L614, and is input to the base of first mixer (UHF) Q630. Unnecessary frequency by the band-pass filters.

The band-pass filter in the RF amplifier circuitry performs varicap tuning. Varicap diodes Q623, Q625, Q626, Q628, and Q629 in the band-pass filter (trunking circuit) change the bandwidth based on the DC voltage from a PLL loop filter consisting of R860, R861, C876, R858, R859, C875, and C874.

Table 3-11

Transceiver status	Shift register i	c	Transistor switches	Anienna switches		
Receive	Q819 pin 12 (high/middle/low)	Low	UHF/1.2 G TX power switches Q806, Q807	Off	Q613, Q614, Q619	Off
status	Q819 pin 14 (EL)	Low	UHF EL power switches Q808, Q820	Off	Q615, Q616	Off
Transmit	Q819 pin 12 (high/middle/low)	High	UHF/1.2 G TX power switches Q806, Q807	On	Q613, Q6 14, Q619	On
status			UHF EL power switches Q808, Q820	On	Q6 15, Q616	On

(1.2 GHz band)

The reception frequency (fnx-g) from antenna connector socket J603 passes through a high-pass filter consisting of C601, C602, and a pattern coil as well as a low-pass filter consisting of C603, C604, and a pattern coil before being input to an antenna switch circuit consisting of Q601, Q602, and Q607.

The operation of the antenna switch circuit is illustrated in Table 3-12.

After passing through the antenna switch circuit, the reception frequency is amplified by approximately 12 dB by RF amplifier Q621, then input to the base of first mixer (1.2G) Q622.

(VHF band)

The reception frequency (fnx-v) from antenna connector socket J603 passes through a low-pass filter (C607, C608, L601, L602, L603) (C889, C890, L606) (C402, C403, L401) and is input to an antenna switch circuit consisting of Q403, Q404, Q406, Q408, Q405, and Q407.

The operation of the antenna switch circuit is illustrated in Table 3-13.

After passing through the antenna switch circuit, the reception frequency is input to RF amplifier Q649, where it is amplified by approximately 10 dB. The amplified reception frequency is then input to the base of first mixer (VHF) Q650.

Antenna Switch Circuit Operation (1.2 GHz Band)

If the transceiver's left display band is the VHF band or UHF band —

(VHF band)

The reception frequency (fnx-v) from antenna connector socket J603 passes through a low-pass filter (C607, C608, L601, L602, L603) (C889, C890, L606) (C402, C403, L401) and is input to an antenna switch circuit consisting of Q403, Q404, Q406, Q408, Q405, and Q407.

The operation of the antenna switch circuit is identical to that illustrated in Table 3-13.

After passing through the antenna switch circuit, the reception frequency passes through band-pass filter L409 and is input to RF amplifier Q427. The input reception frequency is amplified by approximately 15 dB by RF amplifier Q427, after which it is input to a band-pass filter consisting of L411 and L412.

After passing through the band-pass filter, the reception frequency is input to the gate of first mixer (VHF) Q433. Also, unnecessary frequency elements are eliminated from the reception frequency by the band-pass filters. The band-pass filter in the RF amplifier circuitry performs varicap tuning.

Varicap diodes Q426, Q429, Q430, and Q431 in the band-pass filter (trunking circuit) change the bandwidth based on the PWM (pulse width modulation) signal from pin 32 of microprocessor Q209. The PWM signal is based on the frequency setting and output from pin 32 of microprocessor Q209. The PWM signal is converted into a DC voltage by a PWM amplifier circuit consisting of Q240 and Q241.

Table 3-12

Transceiver status	Shift register IC _ Q819 pin 11	UHF/1.2 G TX power switches Q806, Q807	Antenna switches Q601, Q602, Q607
Receive status	Low	Off	Off
Transmit status	High	On	On

Antenna Switch Clrcult Operation (VHF Band)

Table 3-13

Transceiver status	Shift register IC _		Transistor switches _		-> Antenna switches		
Receive status	Q449 pin 11 (high/middle/low)	Low	VHF TX power switch Q423	Off	Q403, Q404, Q406	Off	
	Q449 pin 12 (EL)	Low	VHF TX EL power switch Q424	Off	Q408, Q405, Q407	Off	
Transmit status	Q449 pin 11 (high/middle/low)	High	VHF TX power switch Q423	On	Q403, Q404, Q406	On	
	Q449 pin 12 (EL)	High	VHF TX EL power switch Q424	On	Q408, Q405, Q407	On	

(UHF band)

The reception frequency (fix-u) from antenna connector socket J603 passes through a low-pass filter consisting of C607, C608, L601, L602, and L603 and a high-pass filter consisting of C621, C622, and L607 before being input to an antenna switch circuit consisting of Q613, Q614, Q615, Q616, and Q619. The operation of the antenna switch circuit is identical to that illustrated in Table 3-11.

After passing through the antenna switch circuit, the reception frequency is amplified by approximately 20 dB by RF amplifier Q952, then input to the base of first mixer (UHF) Q953.

3.2.2 First Mixer Circuit

If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band —

(UHF band)

After passing through the band-pass filter consisting of L613 and L614, the reception frequency (f_{RX-U}) is input to the base of first mixer (UHF) Q630. Also, the first local signal (f_{VCO-U}) from the UHF VCO built into UHF-VCO P.C. board P702 is input to the base of first mixer (UHF) Q630.

The reception frequency and first local signal are mixed by Q630, and two first IF signals consisting of their sum and difference are created.

frx-u – fvco-u = 23.05 (MHz) frx-u: Reception frequency fvco-u: First local signal

The sum and difference first IF signals created by first mixer Q630 are input to crystal filter F601. The difference of the input first IF signals (23.05 MHz) is created by the crystal filter, and adjacent signal elements are eliminated.

After this, the first IF signal (23.05 MHz) is input to first IF amplifier Q631.

(1.2 GHz band)

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After being amplified by RF amplifier Q621, the reception frequency (f_{RX-G}) is input to the base of first mixer (1.2G) Q622. Also, the first local signal (f_{VCO-G}) from the 1.2 GHz VCO built into UHF-VCO P.C. board P702 is input to the base of first mixer (1.2G) Q622.

The reception frequency and first local signal are mixed by Q622, and two first IF signals consisting of their sum and difference are created.

f_{RX-G} – fvco-g = 23.05 (MHz) f_{RX-G}: Reception frequency fvco-g: First local signal

The sum and difference first IF signals created by first mixer Q622 are input to crystal filter F601. The difference of the input first IF signals (23.05 MHz) is created by the crystal filter, and adjacent signal elements are eliminated.

After this, the first IF signal (23.05 MHz) is input to first IF amplifier Q631.

(VHF band)

After being amplified by RF amplifier Q649, the reception frequency (f_{RX-V}) is input to the base of first mixer (VHF) Q650. Also, the first local signal (f_{VCO-V}) from VHF-VCO Q646 is input to the base of first mixer (VHF) Q650. The reception frequency and first local signal are mixed by Q650, and two first IF signals consisting of their sum and difference are created.

frx-v – fvco-v = 23.05 (MHz) frx-v: Reception frequency fvco-v: First local signal

The sum and difference first IF signals created by first mixer Q650 are input to crystal filter F601. The difference of the input first IF signals (23.05 MHz) is created by the crystal filter, and adjacent signal elements are eliminated. After this, the first IF signal (23.05 MHz) is input to first IF amplifier Q631.

-- If the transceiver's left display band is the VHF band or UHF band ---

(VHF band)

After passing through the band-pass filter consisting of L411 and L412, the reception frequency (f_{RX-V}) is input to the gate of first mixer (VHF) Q433. Also, the first local signal (fvco-v) from the VHF VCO built into VHF-VCO P.C. board P701 is input to the source of first mixer (VHF) Q433. The reception frequency and first local signal are mixed by Q433, and two first IF signals consisting of their sum and difference are created.

frx-v – fvco-v = 21.80 (MHz) frx-v: Reception frequency fvco-v: First local signal

The sum and difference first IF signals created by first mixer Q433 are input to crystal filter F401. The difference of the input first IF signals (21.80 MHz) is created by the crystal filter, and adjacent signal elements are eliminated.

After this, the first IF signal (21.80 MHz) is input to first IF amplifier Q435.

(UHF band)

After being amplified by RF amplifier Q952, the reception frequency (f_{RX-U}) is input to the base of first mixer (UHF) Q953. Also, the first local signal (f_{VCO-U}) from the UHF VCO built into VHF-VCO P.C. board P701 is input to the base of first mixer (UHF) Q953.

The reception frequency and first local signal are mixed by Q953, and two first IF signals consisting of their sum and difference are created.

fvco-u – f_{Rx-u} = 21.80 (MHz) f_{Rx-u}: Reception frequency fvco-u: First local signal

The sum and difference first IF signals created by first mixer Q953 are input to crystal filter F401. The difference of the input first IF signals (21.80 MHz) is created by the crystal filter, and adjacent signal elements are eliminated.

After this, the first IF signal (21.80 MHz) is input to first IF amplifier Q435.

-- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band ---

The UHF band, 1.2 GHz band, and VHF band 23.05 MHz first IF signals created by crystal filter F601 are input to first IF amplifier Q631. After being amplified by approximately 15 dB by Q631, these first IF signals are input to pin 16 of second IF IC Q437.

If the transceiver's left display band is the VHF band or UHF band —

The VHF band and UHF band 21.80 MHz first IF signals created by crystal filter F401 are input to first IF amplifier Q435. After being amplified by approximately 15 dB by Q435, these first IF signals are input to pin 16 of second IF IC Q440.

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3.2.4 Second IF Circuit

— if the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band —

The UHF band, 1.2 GHz band, and VHF band first IF signals amplified by first IF amplifier Q631 are input to pin 16 of second IF IC Q437.

The first IF signal amplified by the first IF amplifier passes through pin 16 of second IF IC Q437 and is input to the second mixer built into Q437. Also, the 11.75 MHz reference oscillator frequency from crystal oscillator X402 is input to reference amplifier Q436. The input reference oscillator frequency is boosted to twice its frequency by Q436 and becomes the 23.5 MHz second local signal. This 23.5 MHz second local signal passes through pin 1 of second IF IC Q437 and is input to the second mixer. The first IF signal and second local signal are mixed by the second mixer built into second IF IC Q437, and the first IF signal is converted into a 450 kHz second IF signal. After being converted to 450 kHz, the second IF signal passes through pin 3 of Q437, after adjacent signal elements are eliminated by ceramic filter F402 (6 dB bandwidth ±7.5 kHz and above), input to pin 5 of Q437. The input second IF signal is converted into an audio signal by the second IF amplifier and a quadrature wave detector. The result is then output from pin 9 of Q437.

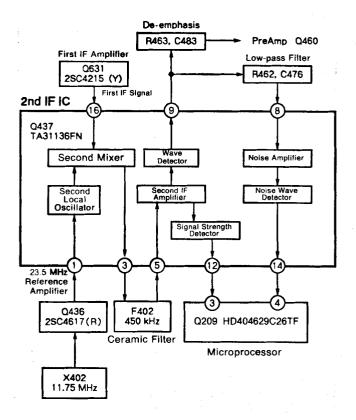


Figure 3-3 Second IF IC Block Diagram

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--- If the transceiver's left display band is the VHF band or UHF band ---

The VHF band and UHF band first IF signals amplified by first IF amplifier Q435 are input to pin 16 of second IF IC Q440.

The first IF signal amplified by the first IF amplifier passes through pin 16 of second IF IC Q440 and is input to the second mixer built into Q440. Also, the 21.345 MHz second local signal from crystal oscillator X401 passes through pin 1 of second IF IC Q440 and is input to the second mixer. The first IF signal and second local signal are mixed by the second mixer built into second IF IC Q440, and the first IF signal is converted into a 455 kHz second IF signal. After being converted to 455 kHz, the second IF signal passes through pin 3 of Q440, after adjacent signal elements are eliminated by ceramic filter F403 (6 dB bandwidth ± 7.5 kHz and above), and input to pin 5 of Q440. The input second IF signal is converted into an audio signal by the second IF amplifier and a quadrature wave detector. The result is then output from pin 9 of Q440.

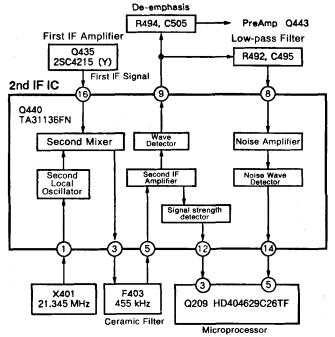


Figure 3-4 Second IF IC Block Diagram

3.2.5 Audio Circuit

--- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band ---

A portion of the audio signal output from pin 9 of second IF IC Q437 is input to a deemphasis circuit consisting of R463 and C483. The deemphasis circuit consisting of R463 and C483 has -6 dB/oct frequency characteristics, and it performs compensation on the audio signal. After passing through the deemphasis circuit, the audio signal is input to preamplifier Q460, where it is amplified by approximately 13 dB. The amplified audio signal passes through AF mute switch Q235 and is input to AF volume R347 (1/2). The input audio signal is level adjusted by AF volume R347 (1/2) and input to active low-pass filter Q233. Active lowpass filter Q233 eliminates unnecessary audio signal elements above 3.0 kHz. After passing through the active low-pass filter, the audio signal is input to pin 1 of analog switch IC Q230. The function of analog switch IC Q230 is switching between the internal and external speakers.

The operation of analog switch IC Q230 is illustrated in table 3-14.

Operation of Analog Switch IC Q230

Table 3-14

Transcelver speaker status	Micropro- cessor Q209 pin 34	Analog switch IC Q230 on status
Internal speaker	High	Pin 1 \rightarrow Pin 6
External speaker	Low	Pin 1 \rightarrow Pin 7

If the internal speaker is being used, the audio signal is output from pin 6 of Q230 and input to pin 7 of audio power amplifier Q228. The audio signal input to audio power amplifier Q228 is amplified to approximately 0.35 W and output from Q228 pin 1. The output audio signal drives internal speaker E201.

If the external speaker is being used, the audio signal is output from pin 7 of Q230 and input to pin 6 of audio power amplifier Q228. The audio signal input to audio power amplifier Q228 is amplified to approximately 0.35 W and output from Q228 pin 3. The output audio signal is then output to external speaker socket J381.

If the transceiver's left display band is the VHF band or UHF band —

A portion of the audio signal output from pin 9 of second IF IC Q440 is input to a deemphasis circuit consisting of R494 and C505. The deemphasis circuit consisting of R494 and C505 has -6 dB/oct frequency characteristics, and it performs compensation on the audio signal. After passing through the deemphasis circuit, the audio signal is input to preamplifier Q443, where it is amplified by approximately 15 dB. The amplified audio signal passes through AF mute switch Q237 and is input to AF volume R346 (1/2). The input audio signal is level adjusted by AF volume R346 (1/2) and input to active low-pass filter Q234. Active lowpass filter Q234 eliminates unnecessary audio signal elements above 3.0 kHz. After passing through the active low-pass filter, the audio signal is input to pin 1 of analog switch IC Q232. The function of analog switch IC Q232 is switching between the internal and external speakers.

The operation of analog switch IC Q232 is illustrated in table 3-15.

Table 3-15

Operation of Analog Switch IC Q232

Transcelver speaker status	Micropro- cessor Q209 pin 33	Analog switch IC Q232 on status
Internal speaker	High	Pin 1 → Pin 6
External speaker	Low	Pin 1 → Pin 7

If the internal speaker is being used, the audio signal is output from pin 6 of Q232 and input to pin 7 of audio power amplifier Q228. The audio signal input to audio power amplifier Q228 is amplified to approximately 0.35 W and output from Q228 pin 1. The output audio signal drives internal speaker E201.

If the external speaker is being used, the audio signal is output from pin 7 of Q232 and input to pin 6 of audio power amplifier Q228. The audio signal input to audio power amplifier Q228 is amplified to approximately 0.35 W and output from Q228 pin 3. The output audio signal is then output to external speaker socket J381.

--- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band ---

A portion of the audio signal output from pin 9 of second IF IC Q437 is input to a low-pass filter consisting of R462 and C476. After 450 kHz elements are eliminated from the audio signal by the low-pass filter, it is input to pins 7 and 8 of second IF IC Q437. The audio signal input to pins 7 and 8 of second IF IC Q437 has approximately 30 kHz elements only amplified by a noise amplifier built into Q437 to create the squelch signal. This squelch signal is converted into a DC signal by the noise wave detector built into second IF IC Q437. The output squelch signal passes through squelch control R347 (2/2).

After this, the squelch signal is input to pin 4 of microprocessor Q209.

If the squelch signal input to pin 4 of microprocessor Q209 is approximately 0.4 V or greater, a high level signal is output from pin 27 of microprocessor Q209. This high level output causes AF mute switch Q235 to turn off, turning squelch operation on for the transceiver.

However, If the squelch signal input to pin 4 of microprocessor Q209 is less than approximately 0.4 V, a low level signal is output from pin 27 of microprocessor Q209. This low level output causes AF mute switch Q235 to turn on, turning the transceiver's squelch operation off.

--- If the transceiver's left display band is the VHF band or UHF band ---

A portion of the audio signal output from pin 9 of second IF IC Q440 is input to a low-pass filter consisting of R492 and C495. After 455 kHz elements are eliminated from the audio signal by the low-pass filter, it is input to pins 7 and 8 of second IF IC Q440. The audio signal input to pins 7 and 8 of second IF IC Q440 has approximately 30 kHz elements only amplified by a noise amplifier built into Q440 to create the squelch signal. This squelch signal is converted into a DC signal by the noise wave detector built into second IF IC Q440 and then output from pin 14 of Q440. The output squelch signal passes through squelch control R346 (2/2). The squelch level is adjusted by R346 (2/2). After this, the squelch signal is input to pin 5 of microprocessor Q209.

If the squelch signal input to pin 5 of microprocessor Q209 is approximately 0.4 V or greater, a high level signal is output from pin 26 of microprocessor Q209. This high level output causes AF mute switch Q237 to turn off, turning squelch operation on for the transceiver.

However, If the squelch signal input to pin 5 of microprocessor Q209 is less than approximately 0.4 V, a low level signal is output from pin 26 of microprocessor Q209. This low level output causes AF mute switch Q237 to turn on, turning the transceiver's squelch operation off.

3.2.7 Signal Strength Meter Circuit

— If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band —

A portion of the second IF signal is input to the signal strength meter detector circuit built into second IF IC Q437, and a DC voltage between 0.6 V and 1.9 V and corresponding to the reception signal strength is output from pin 12 of Q437. This DC voltage is input to semi-fixed resistor R471. After signal strength meter adjustment by semi-fixed resistor R471, the DC voltage is input to pin 6 of analog switch IC Q215. The function of analog switch IC Q215 is switching the signal strength meter display between the right and left display frequencies.

The operation of analog switch IC Q215 is illustrated in Table 3-16.

Operation of Analog Switch IC Q215 Table 3-16

Transceiver display	Micropro- cessor Q209 pin 56	Analog switch IC Q215 on status
Right display	High	Pin 6 \rightarrow Pin 1
Left display	Low	Pin 7 \rightarrow Pin 1

After passing through analog switch IC Q215, the DC voltage is input to pin 3 of microprocessor Q209, where it undergoes A/D conversion.

After A/D conversion, the digital signal is output from pins 35 and 37 of microprocessor Q209 and input to pins 7 and 9 of LCD driver IC Q101. Based on the digital signal input, LCD driver IC Q101 drives LCD Q102 to produce the signal strength meter indication.

If the transceiver's left display band is the VHF band or UHF band

A portion of the second IF signal is input to the signal strength meter detector circuit built into second IF IC Q440, and a DC voltage between 0.5 V and 1.7 V corresponding to the reception signal strength is output from pin 12 of Q440. This DC voltage is input to semi-fixed resistor R473. After signal strength meter adjustment by semi-fixed resistor R473, the DC voltage is input to pin 7 of analog switch IC Q215. The operation of analog switch IC Q215 is illustrated in Table 3-16. The description of subsequent circuit operations is identical to that set forth in the section covering if the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band.

- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band --

A portion of the audio signal output from pin 9 of second IF IC Q437 passes through preamplifier Q460 and is input to pin 1 of DTMF IC Q216. The DTMF signal, including the audio signal, is decoded into a digital signal inside DTMF IC Q216. The decoded digital signal is output from pins 6, 7, and 9 of DTMF IC Q216, and input to pins 45, 47, and 46 of microprocessor Q209.

After this, microprocessor Q209 detects internally whether or not a digital signal corresponding to the transceiver's DTMF signal setting matches the decoded digital signal. If microprocessor Q209 determines that they match, an alarm tone sounds and the audio signal is output via internal speaker E201.

— If the transceiver's left display band is the VHF band or UHF band —

A portion of the audio signal output from pin 9 of second IF IC Q440 passes through preamplifier Q443 and is input to pin 1 of DTMF IC Q217. The DTMF signal, including the audio signal, is decoded into a digital signal inside DTMF IC Q217. The decoded digital signal is output from pins 6, 7, and 9 of DTMF IC Q217, and input to pins 45, 44, and 43 of microprocessor Q209.

The description of subsequent circuit operations is identical to that set forth in the section covering if the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band.

3.2.9 Tone Decoder (CTN560)

If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band

A portion of the audio signal output from pin 9 of second IF IC Q437 passes through preamplifier Q460 and is input to pin 3 of CTCSS socket J202. The tone signal, included in the audio signal, passes through pin 3 of CTCSS socket J202 and is input to an IC inside the tone squelch unit (CTN560). At this point, the IC in the tone squelch unit detects whether or not the input tone signal and the transceiver's tone signal setting match.

If the input tone signal and the transceiver's tone signal setting match, a low level signal is output from pin 11 of CTCSS socket J202 and input to pin 49 of microprocessor Q209. This low level signal causes microprocessor Q209 to output the audio signal via internal speaker E201.

- If the transceiver's left display band is the VHF band or UHF band —

A portion of the audio signal output from pin 9 of second IF IC Q440 passes through preamplifier Q443 and is input to pin 4 of CTCSS socket J202. The tone signal, included in the audio signal, passes through pin 4 of CTCSS socket J202 and is input to an IC inside the tone squelch unit (CTN560). At this point, the IC in the tone squelch unit detects whether or not the input tone signal and the transceiver's tone signal setting match.

If the input tone signal and the transceiver's tone signal setting match, a low level signal is output from pin 12 of CTCSS socket J202 and input to pin 48 of microprocessor Q209. This low level signal causes microprocessor Q209 to output the audio signal via internal speaker E201.

3.3 Transmitter Block

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3.3.1 Microphone Amplifier

--- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band ---

When the user depresses PTT switch S204 and speaks into the transceiver, an audio signal is input to pin 3 of microphone amplifier Q222 (1/2) and amplified by approximately 54 dB. Microphone amplifier Q222 (1/2) has a built-in preemphasis circuit (6 dB/oct frequency characteristics), which modulates boost the high components of the audio signal. The audio signal is output from pin 1 of Q222 (1/2) and input to pin 6 of low-pass filter Q222 (2/2). The audio signal gains the -12 dB/oct frequency characteristic from low-pass filter to limit the bandwidth. After this, the audio signal is output from pin 7 of Q222 (2/2).

If the right display band is UHF band, the output audio signal is deviation adjusted by semi-fixed resistor R544, then input to the UHF band modulator circuit on UHF-VCO P.C. board P702.

If the right display band is 1.2 GHz band, the output audio signal is deviation adjusted by semi-fixed resistor R545, then input to the 1.2 GHz band modulator circuit on UHF-VCO P.C. board P702.

If the right display band is VHF band, the output audio signal is deviation adjusted by semi-fixed resistor R547, then input to the VHF band modulator circuit on VHF-VCO P.C. board P701.

If the transceiver's left display band is the VHF band or UHF band —

The circuitry operates identically to the description in the section covering if the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band.

3.3.2 TX Preamplifier

--- If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band ---

(UHF band)

The audio signal is input to UHF-VCO P.C. board P702 and output from the UHF VCO circuit as the transmission signal. The approximately –4 dBm transmission signal output from the UHF VCO circuit passes through TX/RX switch Q636 and is input to TX preamplifier Q660.

Switching Operation of TX Power Switch Q659

amplified approximately 25 dB by TX preamplifier Q660. The amplified transmission signal is then input to TX power switch Q659.

(1.2 GHz band)

The audio signal is input to UHF-VCO P.C. board P702 and output from the 1.2 GHz VCO circuit as the transmission signal. The approximately –6 dBm transmission signal output from the 1.2 GHz VCO circuit passes through TX/RX switches Q632 and Q606, and is input to TX preamplifier Q611. Refer to Table 3-6 for details of the switching operation of TX/RX switches Q632 and Q606. The transmission signal is amplified approximately 16 dB by TX preamplifier Q611. The amplified transmission signal is then input to EL power amplifier Q609.

(VHF band)

The audio signal is input to VHF-VCO P.C. board P701 and output from the VHF VCO circuit as the transmission signal. The approximately –4 dBm transmission signal output from the VHF VCO circuit passes through TX/RX switch Q425 and is input to TX preamplifier Q415.

Refer to Table 3-9 for details of the switching operation of TX/RX switch Q425. The transmission signal is amplified approximately 20 dB by TX preamplifier Q415. The amplified transmission signal is then input to TX power switch Q414.

If the transceiver's left display band is the VHF band or UHF band —

The circuitry operates identically to the description in the section covering if the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band.

3.3.3 Final Power Amplifier

If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band —

(UHF band)

The transmission signal amplified by TX preamplifier Q660 is input to TX power switch Q659. TX power switch Q659 performs switching of the final power amplifier based on the transceiver's transmission output power setting.

The operation of TX power switch Q659 is illustrated in Table 3-17.

Table 3-17

Transmission power status	Shift register IC -+		Shift register IC \rightarrow Transistor switches			→ TX power switch Q659		
High, middle, low power	Q819 pin 12	High	UHF/1.2G TX power switches Q806, Q807	On	High, middle, low side	On		
EL power	Q819 pin 14	High	UHF EL power switches Q808, Q820	On	EL side	On		

- If the transceiver is set to high, middle, or low power, the transmission signal that passes through TX power switch Q659 is input to pin 1 of power module Q641. The input transmission signal is amplified approximately 5.0 W (power supply voltage: 13.8 V) by power module Q641 and output from pin 4 of Q641. The transmission signal output from pin 4 of Q641 passes through a low-pass filter consisting of C675, L617, and C673, and then input to antenna switches Q613, Q614, and Q619. Refer to Table 3-11 for details of the operation of antenna switches Q613, Q614, and Q619. After passing through antenna switches Q613, Q614, and Q619, the transmission signal passes through another low-pass filter and is supplied to antenna connector socket J603.
- If the transceiver is set to EL power, the transmission signal that passes through TX power switch Q659 is input to EL power amplifier Q638. The input transmission signal is amplified approximately 50 mW (power supply voltage: 7.2 V) by EL power amplifier Q638 and input to antenna switches Q615 and Q616. Refer to Table 3-11 for details of the operation of antenna switches Q615 and Q616. After passing through antenna switches Q615 and Q616, the transmission signal passes through another low-pass filter and is supplied to antenna connector socket J603.

(1.2 GHz band)

If the transceiver's right display band is the 1.2 GHz band, "EL" is the only available transmission power setting.

After being amplified by TX preamplifier Q611, the transmission signal is input to EL power amplifier Q609. The input transmission signal is amplified approximately 20 mW (power supply voltage: 7.2 V) by EL power amplifier Q609 and input to a low-pass filter consisting of C611, L604, and C613. After passing through the low-pass filter consisting of C611, L604, and C613, the transmission signal is input to antenna switches Q601, Q602, and Q607.

Refer to Table 3-12 for details of the operation of antenna switches Q601, Q602, and Q607.

After passing through antenna switches Q601, Q602, and Q607, the transmission signal passes through another low-pass filter and is supplied to antenna connector socket J603.

Switching Operation of TX Power Switch Q414

(VHF band)

The transmission signal-amplified by TX preamplifier Q415 is input to TX power switch Q414. TX power switch Q414 performs switching of the final power amplifier based on the transceiver's transmission output power setting.

The operation of TX power switch Q414 is illustrated in Table 3-18.

- If the transceiver is set to high, middle, or low power, the transmission signal that passes through TX power switch Q414 is input to pin 1 of power module Q413. The input transmission signal is amplified approximately 5.0 W (power supply voltage: 13.8 V) by power module Q413 and output from pin 4 of Q413. The transmission signal output from pin 4 of Q413. The transmission signal output from pin 4 of Q413 passes through a low-pass filter consisting of C423, L406, and C419, and then input to antenna switches Q403, Q404, and Q406. Refer to Table 3-13 for details of the operation of antenna switches Q403, Q404, and Q406. After passing through antenna switches Q403, Q404, and Q406, the transmission signal passes through another low-pass filter and is supplied to antenna connector socket J603.
- If the transceiver is set to EL power, the transmission signal that passes through TX power switch Q414 is input to EL power amplifier Q409. The input transmission signal is amplified approximately 50 mW (power supply voltage: 7.2 V) by EL power amplifier Q409 and input to antenna switches Q408, Q405, and Q407.

Refer to Table 3-13 for details of the operation of antenna switches Q408, Q405, and Q407. After passing through antenna switches Q408, Q405, and Q407, the transmission signal passes through another low-pass filter and is supplied to antenna connector socket J603.

If the transceiver's left display band is the VHF band or UHF band —

The circuitry operates identically to the description in the section covering if the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band.

Table 3-18

Transmission power status	Shift register IC		Shift register IC +++ Tr		→ Transistor switch		TX power	
High, middle, low power	Q449 pin 11	High	VHF TX power switch Q423	On	High, middle, low side	On		
EL po wer	Q449 pin 12	High	VHF TX EL power switch Q424	On	EL side	On		

3.3.4 Auto Power Control (APC) Circuit

 If the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band —

(UHF band)

A portion of the transmission signal output from pin 4 of power module Q641 is input to APC detector Q640. The input transmission signal is wave detected by APC detector Q640 and converted into a DC voltage. The wave detected DC voltage (wave detection voltage) is input to APC amplifier Q642. Also, an output voltage corresponding to the transceiver's high, middle, or low power setting is output from pins 22 and 23 of microprocessor Q209 and undergoes transmission output adjustment by semi-fixed resistors R231, R230, and R229. After transmission output adjustment the output voltage is input to APC amplifier Q642 as the reference voltage.

APC amplifier Q642 compares the input reference voltage and the wave detection voltage.

As a result, a difference voltage is output from APC amplifier Q642 and input to APC amplifiers Q643 and Q644. At this point, if the wave detection voltage is higher than the reference voltage, the output voltage from APC amplifiers Q643 and Q644 causes the voltage input to pin 2 of power module Q641 to drop.

On the other hand, if the wave detection voltage is lower than the reference voltage, the voltage input to pin 2 of power module Q641 increases. In this way, power module Q641 maintains the transmission output at a constant level.

(VHF band)

A portion of the transmission signal output from pin 4 of power module Q413 is input to APC detector Q412. The input transmission signal is wave detected by APC detector Q412 and converted into a DC voltage. The wave detected DC voltage (wave detection voltage) is input to APC amplifier Q418.

Also, an output voltage corresponding to the transceiver's high, middle, or low power setting is output from pins 22 and 23 of microprocessor Q209 and undergoes transmission output adjustment by semi-fixed resistors R231, R230, and R229. After transmission output adjustment, the output voltage is input to APC amplifier Q418 as the reference voltage.

APC amplifier Q418 compares the input reference voltage and the wave detection voltage.

As a result, a difference voltage is output from APC amplifier Q418 and input to APC amplifiers Q416 and Q417. At this point, if the wave detection voltage is higher than the reference voltage, the output voltage from APC amplifiers Q416 and Q417 causes the voltage input to TX preamplifier Q415 to drop.

On the other hand, if the wave detection voltage is lower than the reference voltage, the voltage input to TX preamplifier Q415 increases. In this way, TX preamplifier Q415 maintains the transmission output at a constant level.

- If the transceiver's left display band is the VHF band or UHF band ---

The circuitry operates identically to the description in the section covering if the transceiver's right display band is the UHF band, 1.2 GHz band, or VHF band.

3.3.5 DTMF Encoder

DTMF signals are output from pins 98 and 99 of microprocessor Q209. The output DTMF signals are DTMF deviation adjusted by semi-fixed resistor R265 and then input to pin 3 of microphone amplifier Q222 (1/2). The input DTMF signals are amplified approximately 54 dB by microphone amplifier Q222 (1/2). The amplified DTMF signals are input to the UHF band modulator circuit on UHF-VCO P.C. board P702, the 1.2 GHz band modulator circuit on UHF-VCO P.C. board P702, or the VHF band modulator circuit on VHF-VCO P.C. board P701.

3.3.6 Tone Burst

Tone burst signals are output from pin 30 of microprocessor Q209.

Tone burst signals are 1,750 Hz square waves produced by microprocessor Q209.

The tone burst signal output from pin 30 of microprocessor Q209 is tone burst deviation adjusted by semifixed resistor R281 and then passes through a lowpass filter consisting of R280, R276, and C233. After passing through the low-pass filter, the tone burst signal is input to pin 5 of microphone amplifier Q222 (2/2). The input tone burst signal is mixed with the audio signal and output from pin 7 of microphone amplifier Q222 (2/2). The output tone burst signal is input to the UHF band modulator circuit on UHF-VCO P.C. board P702, the 1.2 GHz band modulator circuit on UHF-VCO P.C. board P702, or the VHF band modulator circuit on VHF-VCO P.C. board P701.

3.3.7 Tone Encoder (CTN560)

Serial data output from pin 19 of microprocessor Q209 passes through pin 5 of CTCSS socket J202 and is input to tone squelch unit CTN560. Tone squelch unit CTN560 then outputs the tone signal specified by the serial data from microprocessor.

The output tone signal passes through pin 10 of CTCSS socket J202 and is input to pin 6 of microphone amplifier Q222 (2/2). The input internal tone signal is mixed with the audio signal and output from pin 7 of microphone amplifier Q222 (2/2). The output internal tone signal is input to the UHF band modulator circuit on UHF-VCO P.C. board P702, the 1.2 GHz band modulator circuit on UHF-VCO P.C. board P702, or the VHF band modulator circuit on VHF-VCO P.C. board P701.

3.4 Control Block

3.4.1 Microprocessor Q209

Microprocessor Q209 controls all the operations of the transceiver. The power supply voltage from DC IN (external power supply connector socket) J403 and the battery terminal are regulated at 3.2 V by 3.2 V regulator Q201 and applied to pin 97 of microprocessor Q209. The 4.00 MHz signal from oscillator X201 is input as the main clock to pins 8 and 9 of Q209.

The functions of the I/O ports of microprocessor Q209 are listed below.

Table 3-19

Pin No.	1/0	Symbol	Port name	Description
1		AVcc	AVcc	A/D converter power supply 3.2 V input
2	1	AN0	BATT	+B line voltage detect
3	1	AN1	SM	Signal strength meter level detect during reception
4	1	AN2	SQLU	Right band noise squelch detect
5	I	AN3	SQLV	Left band noise squelch detect
6	_	AVss	AVss	A/D converter ground
7		TEST	TEST	Used fixed at Vcc
8	_	OSC1	X1	System clock oscillator terminal 4 MHz
9		OSC2	X2	System clock oscillator terminal 4 MHz
10	I	RESET	RESET	High input at Vcc 3.0 V or less: Reset
11		X1	Not used	Vcc 3.2 V
12		X2	Not used	Not used Open
13		GND	GND	Ground
14	0	DO	POWSW	System power control High: Power supply on
15	I/O	D1	ESDA	EEPROM data input/output
16	I/O	D2	ESCL	EEPROM clock output High: EEPROM present detect
17	1/0	D3	СКИ	Right band serial clock output Low: Unlock detect
18	0	D4	PEU	Right band PLL, shift register enable signal output
19	1/0	D5	SO	Serial data line Low: FUNC detect
20	1/0	D6	СКУ	Left band clock/Low: PTT detect/TSQ serial clock
21	0	D7	PEV	Left band PLL, shift register enable signal output
22	0	D8	MID	Low: Middle TX power and RX HI-Z: High, Low and EL (V, U, 1.2G) TX power
23	0	D9	LOW	Low: Low TX power and RX HI-Z: High, middle and EL (V, U, 1.2G) TX power
24	l	D10	POWSW	Low: Power switch detect
25	l	D11	CK4V	Low input at Vcc 4 V or less
26	0	R00	SQCV	Left band squelch control Low: Left band audio output
27	0	R01	SQCU	Right band squelch control Low: Right band audio output
28	1	R02	UP	Low: ENC up detect
29	1	R03	DOWN	Low: ENC down detect
30	1/0	R10	ITONE	Tone burst transmission and Low: Matrix detect
31	I/O	R11	KEY BEEP/SPSW	Beep tone/Low: Speaker socket detect
32	0	R12	PWM	Left band RX trunking signal output
33	0	R13	SWV	Left band speaker switch High: Internal speaker Low: External speaker
34	0	R20	SWU	Right band speaker switch High: Internal speaker Low: External

Pin No.	1/0	Symbol	Port name	Description
35	0	R21	LCK	Clock output to LCD driver IC
36	1	R22	LSI	Data reception/key data input from LCD driver IC
37	0	R23/SO	LSO	Data output to LCD driver IC
38	0	R30	PDV	High: Left band DTMF power down
39	0	R31	PDU	High: Right band DTMF power down
40	0	R32	PDT	High: TSQ power down control
41	I/O	R33	TEU	Right band TSQ enable signal output High: TSQ installed detect
42	I/O	R40	TEV	Left band TSQ enable signal output Low: Matrix set
43	1	R41	DVV	Left band DTMF data detect
44	0	R42	DTCV	Left band DTMF clock output
45	. 1	R43	DSI	DTMF serial data input
46	I	R50	DVU	Right band DTMF data detect
47	0	R51	DTCU	Right band DTMF clock output
48	1	R52	SQTV	Low: Left band TSQ tone detect
49	1	R3	SQTU	Low: Right band TSQ tone detect
50	0	R60	КСК	Key serial clock output
51	0	R61	MONI	AF amplifier power supply control High: On Low: Off
52	0	R62	MUTE	High: Transmit microphone mute on
53		R63	LAMP	Low: Lamp switch detect
54		R70	SQLOFF	Low: Squelch off detect
55	0	R71	MICAMP	Low: Microphone amplifier power supply on
56	1/0	R72	SMSW	Signal strength meter (High: Right band, Low: Left band) Low: Matrix set
57 - 96				Not used
97		Vcc	Vcc	Power supply 3.2 V
98	0	TONEC	TONEC	DTMF generator output
99	0	TONER	TONER	DTMF generator output
100		VTref	TVref	DTMF reference voltage

NOTE: indicates negative logic. H1-Z = high impedance

3.4.2 Shift Register IC Q818

Shift register IC Q818 is controlled by signals from microprocessor Q209. The functions of the I/O ports of shift register IC Q818 are listed below.

Pin No.	I/O	Symbol	Port name	Description
1	1	STROBE	PEU	Right band PLL, shift register enable signal input
2	l	SERIALIN	SO	Serial interface data input
3	I	CLOCK	СКИ	Right band serial clock input
4	0	Q1	RXU	Low: Right band IF circuit power supply on
5	ο	Q2	RXU2	Low: Modulation off during right band (430 MHz, 1.2 GHz band) reception High: Modulation on during right band (430 MHz, 1.2 GHz band) transmission
6	0	Q3	RG	Low: 1.2 GHz band receiver block on
. 7	0	Q4	VG	Low: 1.2 GHz band VCO power supply on, 1.2 GHz band modulator volume on
8		Vss	GND	Ground
9	v	Qs	—	Open
10	0	Q's	SO	To serial interface data output Q819
11	0	Q8		
12	0	Q7	R4U	Low: Right band 430 MHz band receiver block on
13	0	Q6	TUSW	Low: 430 MHz band high, middle, low, EL TX diode switch on
14	0	Q5	PLU	Low: Right band PLL IC power supply on
15	I/O	ENABLE	SW3.2V	High: Enable on
16	I	VDD	Voo	System power supply 3.2 V input

3.4.3 Shift Register IC Q819

Shift register IC Q819 is controlled by signals from microprocessor Q209. The functions of the I/O ports of shift register IC Q819 are listed below.

Table 3-21

Pin No.	I/O	Symbol	Port name	Description
1	1	STROBE	PEU	Right band PLL, shift register enable signal input
2	1	SERIALIN	SO	Serial interface data input from Q818
3	I	CLOCK	СКИ	Right band serial clock input
4	0	Q1		
5	0	Q2	RVU	Low: Right band (144 MHz band) receiver block, VCO power supply on
6	0	Q3		Low: Right band (430 MHz band) VCO power supply on
7	0	Q4	—	Open
8	—	Vss	GND	Ground
9	—	Qs		Open
10	0	Q's	PSOU	To serial interface data output PLL
11	0	Q8	TG	High: 1.2 GHz band transmit on
12	0	Q7	τυ	High: 430 MHz band high, middle, low transmit on
13	0	Q6	TXU	Low: 430 MHz band, 1.2 GHz band transmit power supply on
14	0	Q5	TUMINI	High: 430 MHz band EL power transmit on
15	I/O	ENABLE	SW3.2V	High: Enable on
16	I	Vdd	Voo	System power supply 3.2 V input

Table 3-20

3.4.4 Shift Register IC Q449

Shift register IC Q449 is controlled by signals from microprocessor Q209. The functions of the I/O ports of shift register IC Q449 are listed below.

Table 3-22

Pin No.	I/O	Symbol	Port name	Description
1	1	STROBE	PEV	Left band PLL data enable signal input
2	I	SERIALIN	SO	Serial interface data input
3	1	CLOCK	СКУ	Left band serial clock
4	0	Q1	PLV	Low: Left band PLL IC power supply on
5	0	Q2		
6	0	Q3	RVV	Low: Left band 144 MHz band receiver block on/Modulation mute on
7	0	Q4	RXV	Low: Left band IF circuit power supply on
8		Vss	GND	Ground
9	_	Qs	Not used	
10	0	Q's	Serial	To interface data output Q454
11	0	Q8	τv	High: 144 MHz band transmit high, middle, low on
12	0	Q7	TVMINI	High: 144 MHz band EL power transmitter block on
13	0	Q6		
14	0	Q5	R4V	Low: Left band 400 MHz band receiver block on
15	1/0	ENABLE	SW3.2V	High: Enable on
16	I	Vdd	System power supply	3.2 V input

3.4.5 Shift Register IC Q454

Shift register IC Q454 is controlled by signals from microprocessor Q209. The functions of the I/O ports of shift register IC Q454 are listed below.

Table 3-23

Pin No.	I/O	Symbol	Port name	Description
1	I	STROBE	PEV	Left band PLL data enable signal input
2	I	SERIALIN	Serial	Interface data input from Q449
3	I	CLOCK	СКV	Left band serial clock input
4	0	Q1	TXV	Low: 144 MHz band transmit power supply on
5	0	Q2	Not used	
6	0	Q3	SHIFT	Low: VHF VCO shift on when left band is 144 MHz band reception
7	0	Q4	VVV	Low: VCO power supply on when left band is 144 MHz band
8		Vss	GND	Ground
9		Qs	Not used	
10	0	Q's	Serial	To interface data output PLL
11		Q8	Not used	
12	0	Q7	VUV	Low: VCO power supply on when left band is 430 MHz band
13	_	Q6	Not used	
14		Q5	Not used	
15	1/0	ENABLE	SW3.2V	High: Enable on
16	I	Vdd	System power supply	3.2 V input

3.4.6 EEPROM (Memory Unit)

If the transceiver has a memory unit (sold separately as CMU160/CMU161) installed, control and digital signals from pins 15 and 16 of microprocessor Q209 are input to pins 9 and 10 of EEPROM Q701. EEPROM Q701 reads and writes digital signals based on the control signals from microprocessor Q209.

3.4.7 Keyboard

Input data from the keys (10KEY, V/M, MAIN, CALL) is converted into serial data by key decoder IC Q151 and input to pin 36 of microprocessor Q209.

3.4.8 Beep

A single tone is output from pin 31 of microprocessor Q209. The output single tone is input to either UHF band active low-pass filter Q234. Then the single tone passes through the audio circuit and is output from internal speaker E201 as the beep tone.

3.4.9 Display Block

Digital signals are sent from pins 35, 36, and 37 of microprocessor Q209 to pins 7, 8, 9, and 10 of LCD driver IC Q101. LCD driver IC Q101 drives LCD Q102 based on these digital signals. The display uses a field effect type dynamic drive LCD (liquid crystal display). The display system uses 45 segment terminals and four common terminals. It is driven at a 1/4 duty ratio.

The functions of the I/O ports of LCD driver IC Q101 are listed below.

Table	3-24
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Pin No.	1/0	Symbol	Port name	Description	
1		Vss	Vss	GND	
2	0	X1	X1	System clock 4.19 MHz	
3	I	X0	X2	System clock 4.19 MHz	
4	1/0	RSTX	RESET	Low: Reset	
5		MOD1	GND		
6	I	MOD0	GND		
7	1	SCKX	LCCK(SCK)	Clock input	
8	0	SO	LCSI(SO)	Serial data output	
9	I	SI	LCSO(SI)	Serial data input	
10	0	P42/INT1	BUSY	High: Data reception	
11	1/0	P41/PWM	Not used		
12	I/O	P40	Not used		
13	I	P31	MX4	Low: Matrix pin 4 reception	
14	I	P32	MX3	Low: Matrix pin 3 reception	
15	1	P33	MX2	Low: Matrix pin 2 reception	
16	1	P30/INTO	MX1	Low: Matrix pin 1 reception	
17	1/0	P25	RULED	High impedance: UHF RX LED on	
18	1/0	P24	TVLED	High impedance: VHF TX LED on	
19	I/O	P23	TULED	High impedance: UHF TX LED on	
20	I/O	P22	RVLED	High impedance: VHF RX LED on	
21	I/O	P21	LAMP	High impedance: Illumination LED on	
22	I/O	P20	LEDSW	Low: Illumination LED, left band/right band TX/BUSY LED switch	
23	1	Vcc	Vcc	System power supply 3.2 V input	
24	I/O	P17	Not used		
25	I/O	P16	Not used		
26	I/O	P15	Not used		
27	1/0	P14	Not used		
28	1/0	P13	Not used		
29	0	P12	SEG44	LED segment output	
30	0	P11	SEG43	LED segment output	
31	0	A10	SEG42	LCD segment output	
32	0	P07	SEG41	LCD segment output	

Pin No.	1/0	Symbol	Port name	Description
33	0	P06	SEG40	LCD segment output
34	0	P05	SEG39	LCD segment output
35	0	P04	SEG38	LCD segment output
36	0	P03	SEG37	LCD segment output
37	0	P02	SEG36	LCD segment output
38	0	P01	SEG35	LCD segment output
39	0	P00	SEG34	LCD segment output
40	0		SEG33	LCD segment output
41	0		SEG32	LCD segment output
42	0		SEG31	LCD segment output
43	0		SEG30	LCD segment output
44	0		SEG29	LCD segment output
45	0		SEG28	LCD segment output
46	0		SEG27	LCD segment output
47	0		SEG26	LCD segment output
48	0		SEG25	LCD segment output
49	0		SEG24	LCD segment output
50	0		SEG23	LCD segment output
51	0		SEG22	LCD segment output
52	0		SEG21	LCD segment output
53	0		SEG20	LCD segment output
54	0		SEG19	LCD segment output
55	0		SEG18	LCD segment output
56	0		SEG17	LCD segment output
57	0		SEG16	LCD segment output
58	0		SEG15	LCD segment output
59	0		SEG14	LCD segment output
60	0		SEG13	LCD segment output
61	0		SEG12	LCD segment output
62	0		SEG11	LCD segment output
63	0		SEG10	LCD segment output
64	0		SEG9	LCD segment output
65	0		SEG8	LCD segment output
66	0	1	SEG7	LCD segment output
67	0	1 1-	SEG6	LCD segment output
68	0	1	SEG5	LCD segment output
69	0		SEG4	LCD segment output
70	0	1 1	SEG3	LCD segment output
71	0		SEG2	LCD segment output
72	0	+	SEG1	LCD segment output
73	0		SEG0	LCD segment output
74	0	++	COM3	LCD common output
75	0		COM2	LCD common output
76	0	++	COM2	LCD common output
76	0	<u> </u>	COMI	LCD common output
				LCD drive reference voltage
78			V3 V2	
79 80		┼───┼	V2 V1	LCD drive reference voltage

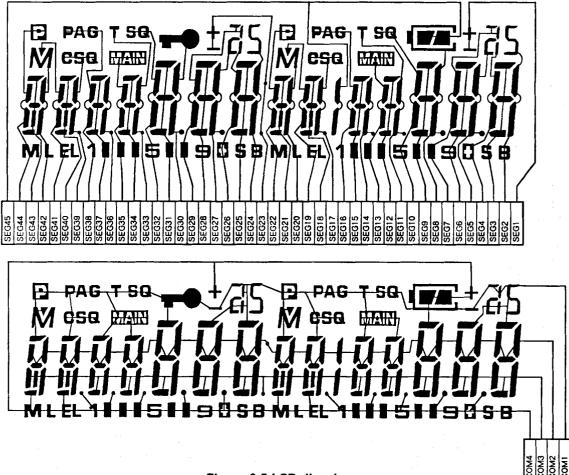


Figure 3-5 LCD dispalay

3.4.10 TX/BUSY LED

- TX/BUSY LED (right band) --

When the transceiver is in receive status, control signals from microprocessor Q209 cause a high impedance level signal to be output from pin 17 of LCD driver IC Q101. This high impedance level signal is input to right band RX LED switch Q111, causing Q111 to turn on. When right band RX LED switch Q111 turns on, TX/BUSY LED Q106 lights green.

When the transceiver is in transmit status, control signals from microprocessor Q209 cause a high impedance level signal to be output from pin 19 of LCD driver IC Q101. This high impedance level signal is input to right band TX LED switch Q112, causing Q112 to turn on. When right band TX LED switch Q112 turns on, TX/BUSY LED Q106 lights red.

- TX/BUSY LED (VHF band) ---

When the transceiver is in receive status, control signals from microprocessor Q209 cause a high impedance level signal to be output from pin 20 of LCD driver IC Q101. This high impedance level signal is input to left band RX LED switches Q109 and Q114, causing Q109 and Q114 to turn on.

When left band RX LED switches Q109 and Q114 turn on, TX/BUSY LED Q105 lights green. When the transceiver is in transmit status, control signals from microprocessor Q209 cause a high impedance level signal to be output from pin 18 of LCD driver IC Q101. This high impedance level signal is input to left band TX LED switch Q110, causing Q110 to turn on. When left band TX LED switch Q110 turns on, TX/BUSY LED Q105 lights red.

3.4.11 LCD Illumination LED

When the transceiver's lamp key is pressed, control signals from microprocessor Q209 cause a high impedance level signal to be output from pin 21 of LCD driver IC Q101. This high impedance level signal is input to LCD lamp switches Q107 and Q108, causing Q107 and Q108 to turn on. When LCD lamp switches Q107 and Q108 turn on, LCD lamp LEDs Q103 and Q104 illuminate.

3.5 Power Supply Block

The power supply voltage (+B) from DC IN (external power supply connector socket) J403 and the battery terminal are supplied to the various circuits as illustrated below.

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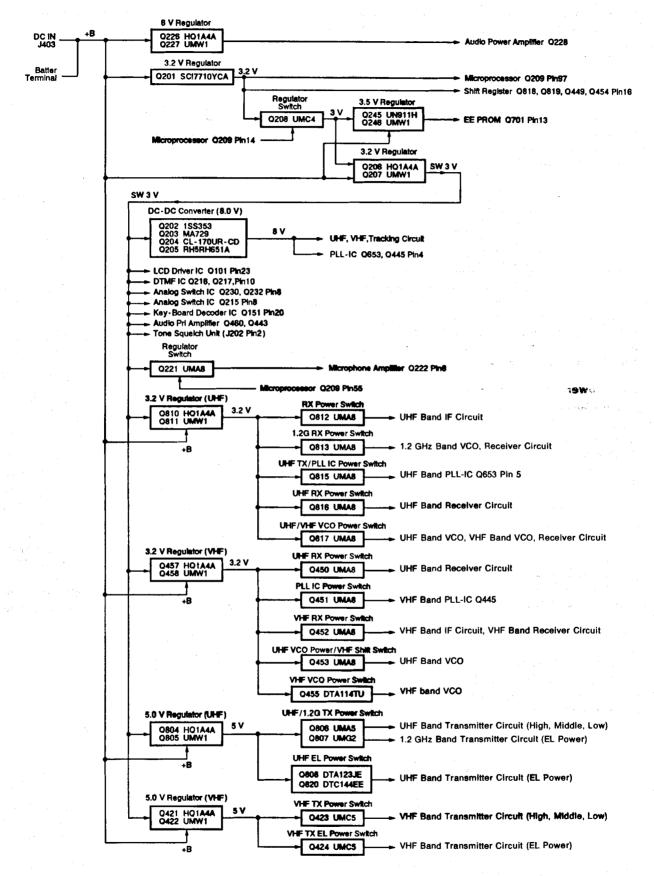


Figure 3-6 Power Supply Block Diagram

3.5.1 Microprocessor Power Supply and Shift Register IC Power Supply

A portion of the power supply voltage (+B) from DC IN (external power supply connector socket) J403 and the battery terminal is regulated at 3.2 V by 3.2 V regulator Q201. The regulated 3.2 V power supply voltage is supplied to pin 97 of microprocessor Q209 and to pin 16 of shift register ICs Q818, Q819, Q449, and Q454.

3.5.2 EEPROM Power Supply

A portion of the voltage regulated by 3.2 V regulator Q201 is applied to regulator switch Q208. Regulator switch Q208 is controlled by signals from pin 14 of microprocessor Q209. The operation of regulator switch Q208 is illustrated in Table 3-25.

Та	ble	3-25
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Transceiver power key -	Microprocessor → Q209 pln 14 -	Regulator switch → Q208
Off	Low	Off
On	High	On

Turning on the power key of the transceiver causes regulator switch Q208 to turn on, and 3.5 V regulators Q245 and Q246 begin to function. The power supply voltage (+B) is input to 3.5 V regulators Q245 and Q246, which regulate its level at 3.5 V. This 3.5 V output is supplied to pin 13 of EEPROM Q701.

3.5.3 Audio Power Amplifier Power Supply

A portion of the power supply voltage (+B) from DC IN (external power supply connector socket) J403 and the battery terminal is applied to 6 V regulators Q226 and Q227. The power supply (6 V) regulated by 6 V regulators Q226 and Q227 is supplied to pin 2 of audio power amplifier Q228.

3.5.4 Tracking Circuit Power Supply and PLL IC Power Supply

A portion of the power supply voltage (+B) from DC IN (external power supply connector socket) J403 and the battery terminal is applied to 3.2 V regulators Q206 and Q207. Turning on the power key of the transceiver causes regulator switch Q208 to turn on, and 3.2 V regulators Q206 and Q207 begin to function. A portion of the voltage (3.2 V) regulated by 3.2 V regulators Q206 and Q207 is applied to a DC-DC converter consisting of Q202, Q203, Q204, and Q205. The applied voltage (3.2 V) is regulated to 8 V by the DC-DC converter, and then applied to pin 4 of tracking circuit and PLL IC Q653 and Q445.

3.5.5 LCD Driver IC, Tone Squelch Unit, and Keyboard Decoder IC Power Supply

A portion of the voltage (3.2 V) regulated by 3.2 regulators Q206 and Q207 is supplied to pin 23 of LCC driver IC Q101, the tone squelch unit, and pin 20 c keyboard decoder IC Q151.

3.5.6 DTMF IC, Preamplifier, and Analog Switch IC Power Supply

A portion of the voltage (3.2 V) regulated by 3.2 , regulators Q206 and Q207 is supplied to pin 10 of DTN⁴ decoders Q216 and Q217, to preamplifiers Q460 an Q443, and to pin 8 of analog switch ICs Q230, Q232, an Q215.

3.5.7 Microphone Amplifler Power Supply

A portion of the voltage (3.2 V) regulated by 3.2 V regulators Q206 and Q207 is supplied to regulate switch Q221. Regulator switch Q221 is controlled be signals from pin 55 of microprocessor Q209. The operation of regulator switch Q221 is illustrated in Table 3-26.

Table 3-26

Transceiver status	Microprocessor → Q209 pin 55 -	Regulator switch → Q221
Receive status	High	Off
Transmit status	Low	On

When regulator switch Q221 turns on, voltage (3.2 V) is supplied to pin 8 of microphone amplifier Q222.

3.5.8 RF-UHF P.C. Board P601 (IF P.C. Board, PLL IC, VCO Circuit, Receiver Circuit)

A portion of the power supply voltage (+B) from DC IN (external power supply connector socket) J403 and the battery terminal is applied to 3.2 V regulators Q810 and Q811. The voltage (3.2 V) regulated by 3.2 V regulators Q810 and Q811 is supplied to RX power switch Q812, 1.2 G RX power switch Q813, UHF TX/PLL IC power switch Q815, UHF RX power switch Q816, and UHF/VHF VCO power switch Q817.

Switches Q812, Q813, Q815, Q816, and Q817 are controlled by signals from shift register ICs Q818 and Q819.

3.5.9 RF-VHF P.C. Board P401 (IF Circuit, PLL IC, VCO Circuit, Receiver Circuit) Power Supply

A portion of the power supply voltage (+B) from DC IN (external power supply connector socket) J403 and the battery terminal is applied to 3.2 V regulators Q457 and Q458. The voltage (3.2 V) regulated by 3.2 V regulators Q457 and Q458 is supplied to UHF RX power switch Q450, PLL IC power switch Q451, VHF RX power switch Q452, UHF VCO power/VHF shift switch Q453, and VHF VCO power switch Q455.

Switches Q450, Q451, Q452, Q453, and Q455 are controlled by signals from shift register ICs Q449 and Q454.

3.5.10 RF-UHF P.C. Board P601 (Transmitter Circuit) Power Supply

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A portion of the power supply voltage (+B) from DC IN (external power supply connector socket) J403 and the battery terminal is applied to 5 V regulators Q804 and Q805. The voltage (5 V) regulated by 5 V regulators Q804 and Q805 is supplied to UHF/1.2G TX power switches Q806 and Q807, and UHF EL power switch Q808.

Switches Q806, Q807, and Q808 are controlled by signals from shift register ICs Q818 and Q819.

3.5.11 RF-VHF P.C. Board P401 (Transmitter Circuit) Power Supply

A portion of the power supply voltage (+B) from DC IN (external power supply connector socket) J403 and the battery terminal is applied to 5 V regulators Q421 and Q422. The voltage (5 V) regulated by 5 V regulators Q421 and Q422 is supplied to VHF TX power switch Q423 and VHF TX EL power switch Q424.

Switches Q423 and Q424 are controlled by signals from shift register ICs Q818 and Q819.

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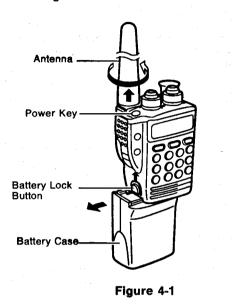
4. DISASSEMBLY AND INSTALLATION OF OPTIONS

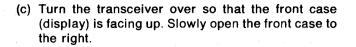
4.1 Transceiver Disassembly

4.1.1 Removing Accessories

(a) Switch off power before removing any screws.

(b) Remove the antenna and battery case as shown in the diagram.





NOTE: Do not pull on the left side of the front case when opening it. Doing so could damage the flexible P.C. board inside.

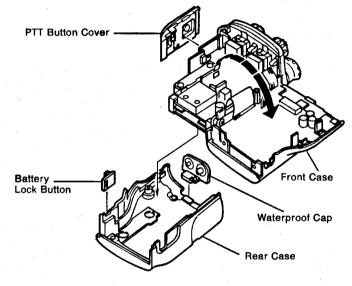


Figure 4-3

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- (a) Turn the transceiver over so that the front case (display) is facing downward. Remove the four screws (A) holding the release spring in place.
- (b) Remove the two screws (B) and two screws (C) holding the rear case in place.

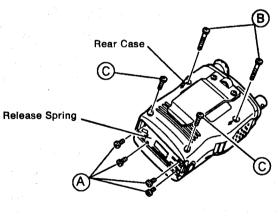
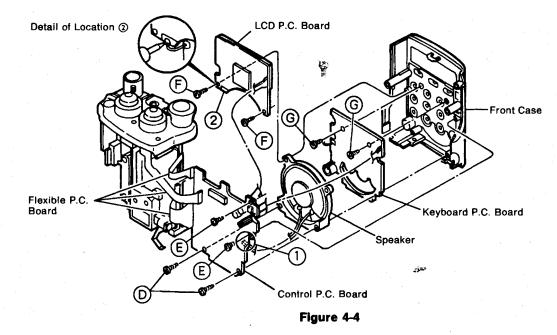


Figure 4-2

4.1.3 Removing the Control P.C. Board, Keyboard P.C. Board, and LCD P.C. Board

- (a) Remove the two screws D and two screws E.
- (b) Remove the solder from locations (1) and (2), and remove the two screws (2). The LCD P.C. board, speaker, and control P.C. board can now be removed.
- (c) Remove the two screws (c). The keyboard P.C. board can now be removed.

NOTE: Remove the flexible P.C. board before removing any of the above P.C. boards singly.



4.1.4 Removing the Top Cover

- (a) Remove the rotary channel selector knob, volume knob, squelch control knob, and antenna cover as shown in the diagram below.
- (b) Remove the two nuts (b) and the single nut (). The top cover can now be removed.

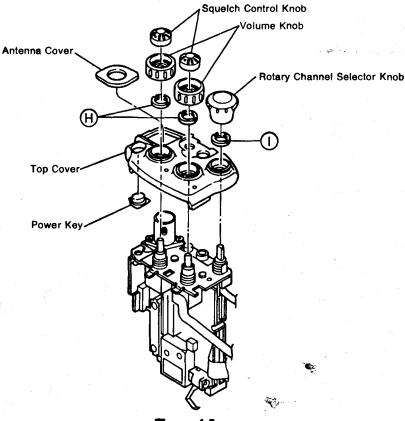
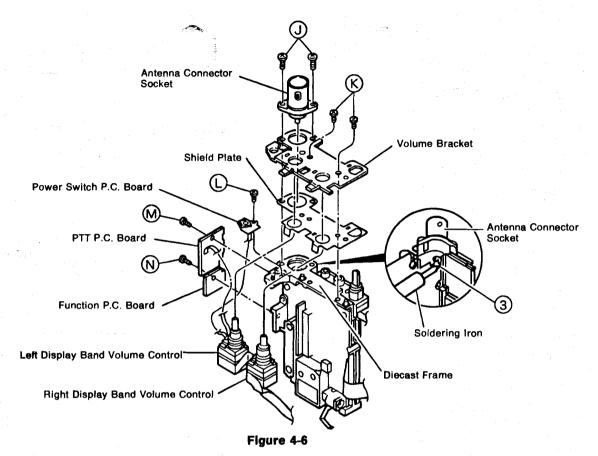


Figure 4-5

4.1.5 Removing the Power Switch P.C. Board, PTT P.C. Board, and Function P.C. Board

- (a) Remove the solder from location ③, the two screws ①, and the two screws ⑥. The antenna connector socket and volume bracket can now be removed from the diecast frame.
- (b) Remove the single screw (). The power switch P.C. board can now be removed.
- (c) Remove the single screw 🖗 . The PTT P.C. board can now be removed.
- (d) Remove the single screw (N). The function P.C. board can now be removed.

NOTE: Remove the flexible P.C. board before removing any of the above P.C. boards singly.



4.1.6 Removing the RF-VHF P.C. Board

(a) Remove the four screws (a) and two screws (b). The RF-VHF P.C. board can now be removed from the diecast frame.

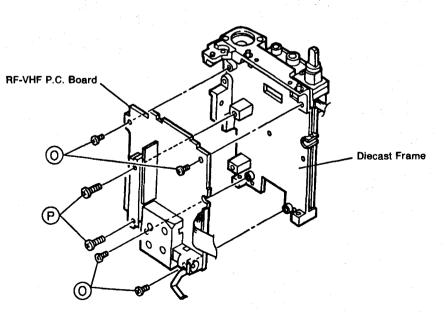
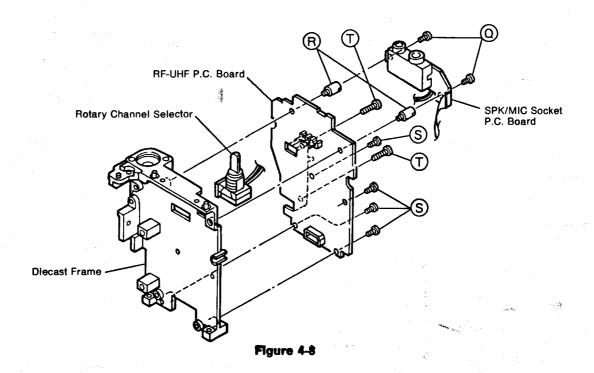


Figure 4-7

4.1.7 Removing the RF-UHF P.C. Board and SPK/MIC Socket P.C. Board

- (a) Remove the two screws (a) . The SPK/MIC socket P.C. board can now be removed.
- (b) Remove the two supports (a), the four screws (b), and the two screws (c). The RF-UHF P.C. board can now be removed from the diecast frame.
- NOTE: Remove the flexible P.C. board before removing any of the above P.C. boards singly.



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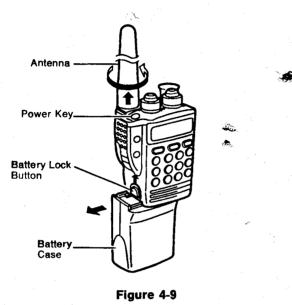
4.2 Installation of Options

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4.2.1 Installing the Memory Unit (CMU160/CMU161)

- **NOTE:** Be sure to switch off the transceiver's power before installing the CMU160/CMU161.
- (a) Remove the battery case from the transceiver as shown in Figure 4-9.

The connector for mounting the memory unit (CMU160/CMU161) is located on the base of the transceiver.



- (b) To remove the previously installed memory unit from the transceiver, insert the tip of a tweezers or the like into the round hole as shown in the diagram below and pull it out.
- **NOTE:** Do not insert the tip of the tweezers too far into the round hole in the memory unit. Doing so could damage it.

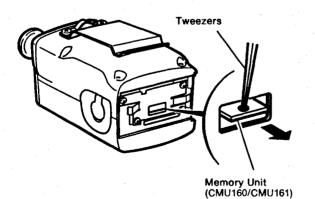
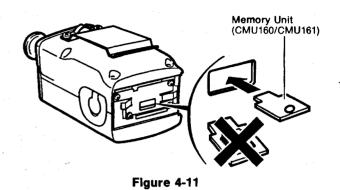


Figure 4-10

(c) Install the memory unit (CMU160/CMU161) in the transceiver. Orient the memory unit (CMU160/-CMU161) as shown in the diagram below and push it straight into the connector.



NOTE:

- 1. Push the CMU160/CMU161 all the way into the connector. If it is not fully inserted, it may malfunction or sustain damage. Also, the memory unit will not function if installed upside down.
- 2. Perform an all-reset after installing the memory unit.

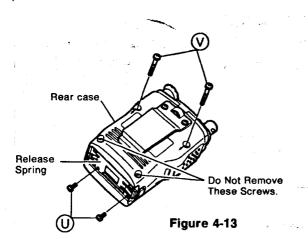
4.2.2 Installing the Tone Squeich Unit (CTN560)

NOTE: The C568A comes with the tone squelch unit (CTN 560) already installed.

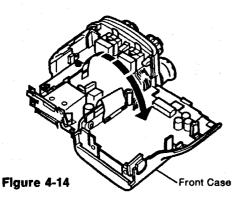
- (a) Switch off the transceiver's power.
- (b) Remove the antenna and battery case.

Antenna Power Key Battery Case Figure 4-12

- (c) As shown in the diagram, remove the two screws(i) holding the release spring in place.
- (d) Remove the two screws () holding the rear case in place.



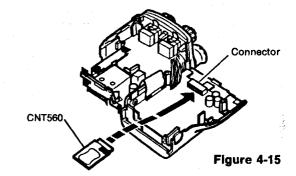
(e) Place the transceiver so that the front case is facing up. Grasp the front case and slowly open it to the right.



NOTE:

1 Do not pull on the left side of the front case when opening it. Doing so could damage the flexible P.C. board inside.

- 2 There is a flexible P.C. board on the side of the transceiver where the external power supply connector socket (DC IN) is located. Do not pull on it with excess force.
- (f) Plug the CTN560 into the connector as shown in the diagram.



- **NOTE:** When inserting the CTN560 into the connector, make sure it is not tilted and be sure to plug it in all the way.
- (g) Put the front and rear cases back together like they were originally. Secure the rear case in place with the screws 𝒜.
- (h) Next replace the two screws ().

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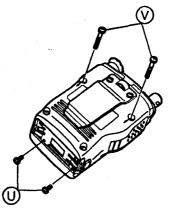


Figure 4-16

- (i) This completes the installation procedure for the CTN560. The transceiver now has tone squelch capabilities.
- NOTE: There is no need to perform all-reset or VFO reset.

5. ADJUSTMENT

5.1 Adjustment Connection Diagrams

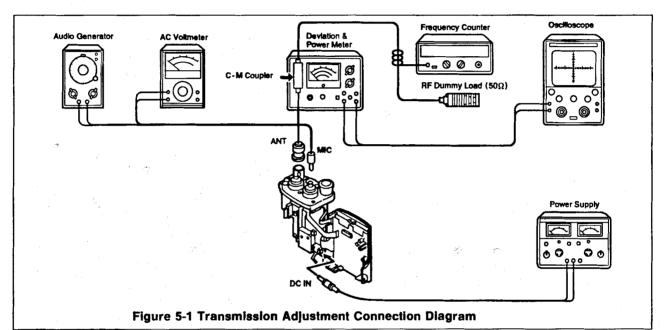
Use properly calibrated measuring equipment and allow sufficient time after turning power on for it to warm up to a stable operating condition.

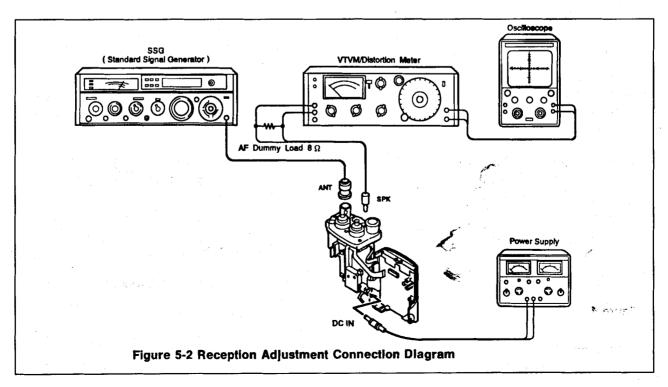
Standard conditions

Power supply voltage	7.2 V DC
Audio load	8 Ω
Audio output	100 mW
Standard modulation frequency	1 kHz
Standard frequency deviation	±3.5 kHz
Transmission load	50 Ω

Adjustment frequencies

UHF band (RX) 435.04 MHz [C568/C568S]
444.04 MHz [C568A]
UHF band (TX) 435.00 MHz [C568/C568S]
444.00 MHz [C568A]
VHF band (RX) 146.06 MHz [C568/C568A]
145.06 MHz [C568S]
VHF band (TX) 146.02 MHz [C568/C568A]
145.02 MHz [C568S]
1.2 GHz band (RX) 1,270.04 MHz
1.2 GHz band (TX) 1,270.00 MHz





5.2 Adjustment Reference Points

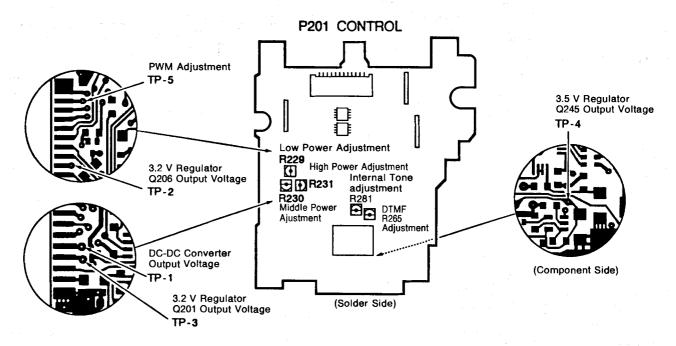


Figure 5-3 Adjustment Points (a)

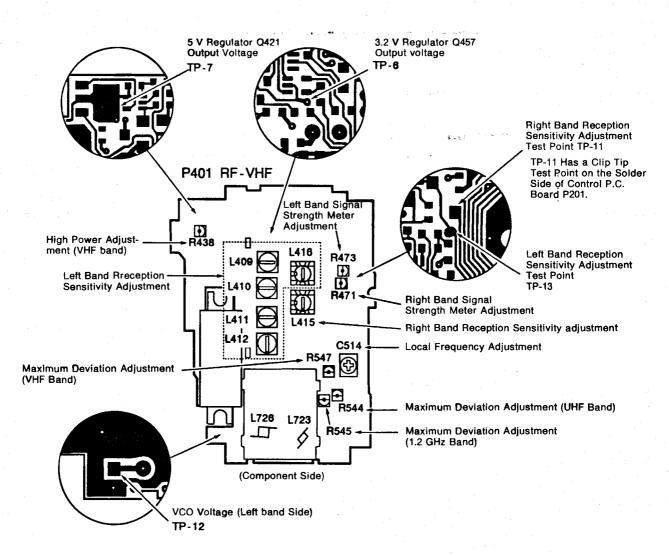
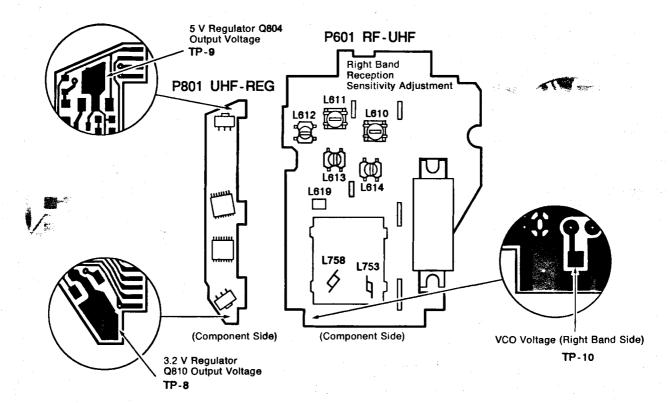
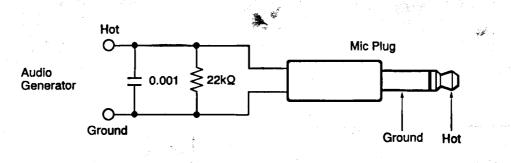


Figure 5-4 Adjustment Points (b)









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5.3 Adjustment Procedure and Confirmation Procedure

5.3.1 Power Supply Block

— Idle current confirmation —

- (a) After applying a 7.2 V power supply to the transceiver, switch it on using the power key.
- (b) Turn the transceiver's right and left display band squelch controls all the way clockwise.
- (c) Press the MAIN key to select left display band VHF as the main band. Press the FUNC and MAIN keys at the same time to obtain a mono-band display of the VHF band.
- (d) Use key input to set the transceiver frequency to 146.06 MHz [C568/C568A] or 145.06 MHz [C568S].
- (e) Confirm that the VHF band current consumption is approximately 43 mA or less [C568/C568S] or approximately 46 mA or less [C568A].
- (f) Use key input to set the transceiver frequency to 435.04 MHz [C568/C568S] or 444.04 MHz [C568A].
- (g) Confirm that the UHF band current consumption is approximately 46 mA or less [C568/C568S] or approximately 49 mA or less [C568A].
- (h) Press the MAIN key to return to twin-band display. Then select right display band UHF as the main band. Press the FUNC and MAIN keys at the same time to obtain a mono-band display of the UHF band.
- (i) Use key input to set the transceiver frequency to 435.04 MHz [C568/C568S] or 444.04 MHz [C568A].
- (j) Confirm that the UHF band current consumption is approximately 52 mA or less [C568/C568S] or approximately 55 mA or less [C568A].
- (k) Use key input to set the transceiver frequency to 146.06 MHz [C568/C568A] or 145.06 MHz [C568S].
- Confirm that the VHF band current consumption is approximately 43 mA or less [C568/C568S] or approximately 46 mA or less [C568A].
- (m) Use key input to set the transceiver frequency to 1,270.04 MHz.
- (n) Confirm that the 1.2 GHz band current consumption is approximately 55 mA or less [C568/C568S] or approximately 58 mA or less [C568A].

---- Voltage confirmation for various blocks ----

- (a) After applying a 7.2 V power supply to the transceiver, switch it on using the power key.
- (b) In the receive mode, select left display band VHF as the main band, then set the transceiver frequency to 146.06 MHz [C568/C568A] or 145.06 MHz [C568S].
- (c) Connect a voltmeter to TP-3 and confirm that the output voltage from 3.2 V regulator Q201 is approximately 3.05 V - 3.35 V.
- (d) Connect a voltmeter to TP-2 and confirm that the output voltage from 3.2 V regulator Q206 is approximately 3.05 V - 3.35 V.
- (e) Connect a voltmeter to TP-1 and confirm that the output voltage from the DC-DC converter is approximately 7.5 V - 8.5 V.
- (f) Connect a voltmeter to TP-6 and confirm that the output voltage from 3.2 V regulator Q457 is approximately 3.15 V - 3.45 V.

- (g) Connect a voltmeter to TP-7 and confirm that the output voltage from 5 V regulator Q421 is approximately 5.05 V - 5.35 V when the PTT switch is depressed.
- (h) Connect a voltmeter to TP-5 and confirm that the PWM voltage is approximately 3.3 V 3.6 V.
- (i) Select right display band UHF as the main band and set the transceiver frequency to 435.04 MHz [C568/C568S] or 444.04 MHz [C568A].
- (j) Connect a voltmeter to TP-8 and confirm that the output voltage from 3.2 V regulator Q810 is approximately 3.15 V - 3.45 V.
- (k) Connect a voltmeter to TP-9 and confirm that the output voltage from 5 V regulator Q804 is approximately 5.05 V - 5.35 V when the PTT switch is depressed.
- Connect a voltmeter to TP-4 and confirm that the output voltage from 3.5 V regulator Q245 is approximately 3.3 V - 3.7 V.

5.3.2 PLL Block

NOTE: Adjustments should be performed with the RF-UHF P.C. board and RF-VHF P.C. board mounted on the aluminum diecast frame.

- Right display band VCO -

Press the MAIN key to select right display band UHF as the main band.

• UHF-VCO Confirmation

- (a) In the receive mode, set the transceiver frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A].
- (b) Connect a voltmeter to TP-10 and confirm that the voltage is 2.45 V - 2.75 V [C568/C568S] or 2.95 V -3.25 V [C568A].
- (c) With the frequency set to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A], press the PTT switch and confirm that the voltage at TP-10 is 3.75 V - 4.25 V [C568/C568S] or 4.35 V - 4.85 V [C568A].

• 1.2 GHz-VCO Confirmation

- (a) In the receive mode, set the transceiver frequency to 1,299.99 MHz.
- (b) Connect a voltmeter to TP-10 and confirm that the voltage is 2.8 V 3.2 V.
- (c) Without changing the frequency setting, press the PTT switch and confirm that the voltage at TP-10 is 3.7 V 4.3 V.

• VHF-VCO Confirmation

- (a) In the receive mode, set the transceiver frequency to 145.99 MHz.
- (b) Connect a voltmeter to TP-10 and confirm that the voltage is 0.46 V 0.50 V.

- Left display band VCO -

Press the MAIN key to select left display band VHF as the main band.

VHF-VCO Confirmation

- (a) In the receive mode, set the transceiver frequency to 145.99 MHz.
- (b) Connect a voltmeter to TP-12 and confirm that the voltage is 0.85 V 1.15 V.
- (c) Without changing the frequency setting, press the PTT switch and confirm that the voltage at TP-12 is 1.4 V 1.8 V.

• UHF-VCO Confirmation

- (a) In the receive mode, set the transcelver frequency to 483.50 MHz.
- (b) Connect a voltmeter to TP-12 and confirm that the voltage is 3.6 V 4.25 V.

--- Local frequency adjustment and Confirmation ---

- **NOTE:** Adjustments should be performed with the RF-UHF P.C. board and RF-VHF P.C. board mounted on the aluminum diecast frame. If the RF P.C. board is removed from the aluminum diecast frame after being adjusted, it will need to be readjusted.
- (a) Set the transceiver frequency to 1,270.00 MHz.
- (b) Press the PTT switch and use a frequency counter to measure the output via a directional coupler.
- (c) Adjust C514 so that the frequency counter reading is 1,270.00 MHz \pm 100 Hz.
- (d) Set the transceiver frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A].
- (e) Press the PTT switch and confirm that the reading on the frequency counter is 435.00 MHz ±300 Hz [C568/C568S] or 444.00 MHz ± 300 Hz [C568A].
- (f) Set the transceiver frequency to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S].
- (g) Press the PTT switch and confirm that the reading on the frequency counter is 146.02 MHz ± 200 Hz [C568/C568A] or 145.02 MHz ± 200 Hz [C568S].

5.3.3 Receiver Block

- Reception sensitivity adjustment -

NOTE: Adjustments should be performed with the RF-UHF P.C. board and RF-VHF P.C. board mounted on the aluminum diecast frame.

Right display band adjustment

- (a) Press the MAIN key to select right display band UHF as the main band. Press the FUNC and MAIN keys at the same time to obtain a mono-band display of the UHF band.
- (b) Turn the transceiver's right display band squelch control knob all the way counterclockwise.
- (c) Set the frequency of the transceiver and SSG to 435.04 MHz [C568/C568S] or 444.04 MHz [C568A]. Set the SSG to standard modulation (standard modulation frequency: 1 kHz, standard frequency deviation: ±3.5 kHz).
 Use the right display hand volume knot to set the

Use the right display band volume knob to set the audio level to approximately 0.6 V.

- (d) Connect a DC voltmeter to TP-11 and adjust the SSG output level so that the voltage is approximately 0.5 V.
- (e) Adjust L610 through L614, in that order, so that the voltmeter reading is maximized.
 When performing these adjustments, turn the core of coil L610 counterclockwise.
- (f) Set the SSG output level to 60 dB μ . Adjust L415 so that the audio level is maximized.
- (g) Once again, perform the adjustment described in step (e). After adjustment are complete, turn the core of coil L610 approximately one turn counterclockwise.

• Left display band adjustment

- (a) Press the MAIN key to select left display band VHF as the main band. Press the FUNC and MAIN keys at the same time to obtain a mono-band display of the VHF band.
- (b) Turn the transceiver's left display band squeich control knob all the way counterclockwise.
- (c) Set the frequency of the transceiver and SSG to 145.06 MHz. Set the SSG to standard modulation (standard modulation frequency: 1 kHz, standard frequency deviation: ±3.5 kHz). Use the left display band volume knob to set the audio level to approximately 0.6 V.
- (d) Connect a DC voltmeter to TP-13 and adjust the SSG output level so that the voltage is approximately 0.5 V.
- (e) Turn the core of coil L411 clockwise approximately one turn above the surface of the case.
- (f) Adjust L409 through L412, in that order, so that the voltmeter reading is maximized.
- (g) Set the SSG output level to $60 \text{ dB}\mu$. Adjust L416 so that the audio level is maximized.
- (h) Once again, perform the adjustment described in step (f).
- (i) Turn the core of coil L409 one-quarter turn clockwise.
- (j) If reception sensitivity is still outside specification, repeat the steps listed under "Reception sensitivity adjustment."

- Reception sensitivity confirmation -

NOTE: The rear case should be mounted on the aluminum diecast frame when performing the following confirmation. At this time, secure the two short screws only at the bottom of the rear case.

• Right display band confirmation

- (a) Press the MAIN key to select right display band UHF as the main band. Press the FUNC and MAIN keys at the same time to obtain a mono-band display of the UHF band.
- (b) Confirm that 12 dB SINAD is $-8.0 \text{ dB}\mu$ or less at frequencies between 430.05 MHz and 439.995 MHz [C568/C568S] or 438.05 MHz and 449.995 MHz [C568A].
- (c) Confirm that 12 dB SINAD balance is within 1.0 dB at frequencies between 430.05 MHz and 439.995
 MHz [C568/C568S] or 438.05 MHz and 449.995 MHz [C568A].
- (d) Set the frequency of the transceiver and SSG to 435.04 MHz [C568/C568S] or 444.04 MHz [C568A]. Confirm that 20 dB QS is $-6.5 \text{ dB}\mu$ or less.
- (e) Set the transceiver frequency to 439.95 MHz [C568/C568S] or 449.95 MHz [C568A] and the SSG frequency to 393.85 MHz [C568/C568S] or 403.85 MHz [C568A]. At this point, confirm that the first image ratio is 46 dB or greater.
- (f) Set the SSG frequency to 435.04 MHz [C568/C568S] or 444.04 MHz [C568A] and the SSG output level to 60 dB μ .

At this point, confirm that the S/N is 40 dB or greater.

- (g) Set the frequency of the transceiver and SSG to 1,270.04 MHz and confirm that 12 dB SINAD is $-3.0 \text{ dB}\mu$ or less.
- (h) Set the frequency of the transceiver and SSG to 146.06 MHz [C568/C568A] or 145.06 MHz [C568S] and confirm that 12 dB SINAD is -7.0 dB μ or less.

• Left display band confirmation

- (a) Press the MAIN key to select left display band VHF as the main band. Press the FUNC and MAIN keys at the same time to obtain a mono-band display of the VHF band.
- (b) At frequencies between 144.05 MHz and 147.99 MHz [C568/C568A] or 144.05 MHz and 145.99 MHz [C568S], confirm that 12 dB SINAD is $-8.5 \text{ dB}\mu$ or less.
- (c) At frequencies between 144.05 MHz and 147.99 MHz [C568/C568A] or 144.05 MHz and 145.99 MHz [C568S], confirm that 12 dB SINAD balance is within 1.0 dB.
- (d) Set the transceiver frequency to 147.95 MHz [C568/C568A] or 145.95 MHz [C568S] and the SSG frequency to 104.35 MHz [C568/C568A] or 102.35 MHz [C568S]. At this point, confirm that the first image ratio is 60 dB or greater.
- (e) Set the SSG frequency to 146.06 MHz [C568/C568A] or 145.06 MHz [C568S] and the SSG output level to 60 dB μ . At this point, confirm that the S/N is 42 dB or greater.
- (f) Set the frequency of the transceiver and SSG to 435.04 MHz [C568/C568S] or 444.04 MHz [C568A] and confirm that 12 dB SINAD is $-6.0 \text{ dB}\mu$ or less.
- (g) If reception sensitivity is still outside specification, repeat the steps listed under "Reception sensitivity adjustment." Note that the sub-band and 1.2 GHz band do not require adjustment.

--- Signal strength meter adjustment and confirmation ----

• Right display band adjustment and confirmation

- (a) Set the frequency of the transceiver and SSG to 435.04 MHz [C568/C568S] or 444.04 MHz [C568A] and the SSG output level to 20 dB μ .
- (b) Adjust R471 so that all the indications [] on the signal strength meter display appear.
- (c) Adjust the SSG output level at 430.02 MHz and 439.98 MHz [C568/C568S] or 438.05 MHz and 449.95 MHz [C568A] so that all the indications \square on the signal strength meter display appear. At this point, confirm that the SSG output level is between 15 dB μ and 25 dB μ .

Left display band adjustment and confirmation

- (a) Set the frequency of the transceiver and SSG to 146.06 MHz [C568/C568A] or 145.06 MHz [C568S] and the SSG output level to 20 dB μ .
- (b) Adjust R473 so that all the indications [] on the signal strength meter display appear.
- (c) Adjust the SSG output level at 144.05 MHz and 147.95 MHz [C568/C568A] or 144.05 MHz and 145.95 MHz [C568S] so that all the indications ☐ on the signal strength meter display appear. At this point, confirm that the SSG output level is between 15 dBµ and 25 dBµ.

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State B. States

5.3.4 Transmitter Block

NOTE: Adjustments should be performed with the RF-UHF P.C. board and RF-VHF P.C. board mounted on the aluminum diecast frame. Also, when switching to the transmit mode, transmission adjustments and confirmations should be performed quickly, and the transceiver switched back to the receive mode immediately afterward. Transmission adjustments and confirmations may be performed using either the right or left display band.

— Output power adjustment —

- (a) Set the transceiver's power supply voltage to 13.8 V and set the right display band to 439.99 MHz [C568/C568S] or 449.99 MHz [C568A].
 Set transmission output to high power.
- (b) Connect a power meter to the antenna connector socket and press the PTT switch.
 At this point, adjust R231 so that the transmission output is maximized.

Confirm that the maximum output power is 6.0 W or greater.

After confirmation, return the transceiver to the receive mode.

- (c) Set the transceiver's left display band to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S]. Set transmission output to high power.
- (d) Press the PTT switch and adjust R231 and R438 so that the transmission output is maximized. Confirm that the maximum output power is 6.0 W or greater. After confirmation, return the transceiver to the

receive mode.

- (e) Set the transceiver's right display band to 439.99 MHz [C568/C568S] or 444.00 MHz [C568A]. Set transmission output to high power.
- (f) Press the PTT switch and adjust R231 so that the transmission output is 5.2 W.
 At this point, confirm that the current consumption is 1,400 mA or less.

After confirmation, return the transceiver to the receive mode.

- (g) Set transmission output to middle power.
- (h) Press the PTT switch and adjust R230 so that the transmission output is 2.5 W.

At this point, confirm that the current consumption is 1,100 mA or less.

After confirmation, return the transceiver to the receive mode.

- (i) Set transmission output to low power.
- (j) Press the PTT switch and adjust R229 so that the transmission output is 0.35 W. At this point, confirm that the current consumption is 550 mA or less. After confirmation, return the transceiver to the receive mode.
 (k) Set the transceiver's left display band to
- 146.02 MHz [C568/C568A] or 145.02 MHz [C568S]. Set transmission output to high power.
- (I) Press the PTT switch and adjust R438 so that the transmission output is 5.2 W.

At this point, confirm that the current consumption is 1,250 mA or less.

After confirmation, return the transceiver to the receive mode.

— Output power confirmation —

- (a) Set the transceiver's power supply voltage to 13.8 V and set transmission output to high power.
- (b) Confirm that the transmission output is 5.0 W or greater at frequencies between 430.00 MHz and 439.99 MHz [C568/C568S] or 438.00 MHz and 449.99 MHz [C568A]. At this point, confirm that the current consumption is 1,400 mA or less.
- (c) Confirm that the difference between the maximum and minimum transmission output values is 0.55 W or less at frequencies between 430.00 MHz and 439.99 MHz [C568/C568S] or 438.00 MHz and 449.99 MHz [C568A].
- (d) Confirm that the transmission output is 5.0 W or greater at frequencies between 144.00 MHz and 147.99 MHz [C568/C568A] or 144.00 MHz and 145.99 MHz [C568S]. At this point, confirm that the current consumption is 1,250 mA or less.
- (e) Confirm that the difference between the maximum and minimum transmission output values is 0.55 W or less at frequencies between 144.00 MHz and 147.99 MHz [C568/C568A] or 144.00 MHz and 145.99 MHz [C568S].
- (f) Set transmission output to middle power.
- (g) Set the frequency to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S] and confirm that the transmission output is between 2.1 W and 2.7 W. At this point, confirm that the current consumption is 1,050 mA or less.
- (h) Set the frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A] and confirm that the transmission output is between 2.1 W and 2.7 W. At this point, confirm that the current consumption is 1,100 mA or less.
- (i) Set transmission output to low power.
- (j) Set the frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A] and confirm that the transmission output is between 0.25 W and 0.5 W. At this point, confirm that the current consumption is 650 mA or less.
- (k) Set the frequency to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S] and confirm that the transmission output is between 0.25 W and 0.5 W. At this point, confirm that the current consumption is 700 mA or less.
- Set the transceiver's power supply voltage to 7.2 V and set transmission output to EL power.
- (m) Set the frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A] and confirm that the transmission output is between 40 mW and 85 mW. At this point, confirm that the current consumption is 130 mA or less.
- (n) Set the frequency to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S] and confirm that the transmission output is between 40 mW and 85 mW. At this point, confirm that the current consumption is 115 mA or less.
- (o) Set the frequency to 1,270.00 MHz and confirm that the transmission output is between 40 mW and 85 mW.

At this point, confirm that the current consumption is 130 mA or less.

— Modulation adjustment —

UHF band

(a) Set the transceiver's power supply voltage to 7.2 V and set the frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A].

Set transmission output to EL power.

- (b) Turn on the 750 μ sec. filter on the modulation analyzer.
- (c) Insert a microphone plug of the sort shown in Figure 5-6 into the external microphone socket. Set AG output to 1 kHz, 60 mV sine wave. Switch the transceiver to transmit mode.
- (d) Adjust R544 so that maximum deviation is ±5.0 kHz.
- (e) Confirm that the difference between the positive and negative maximum deviation (±5.0 kHz) is 0.3 kHz or less. After confirmation, return the transceiver to the receive mode.
- (f) Set the modulation analyzer's high-pass filter to 50 Hz and the low-pass filter to 20 kHz. Turn on the 750 μ sec. filter. Switch the transceiver to transmit mode.
- (g) Adjust the output of the AG so that deviation is $\pm 3.5 \text{ kHz}$.

At this point, confirm that distortion is 4% or less. After confirmation, return the transceiver to the receive mode.

(h) Remove the microphone plug from the AG. Confirm that the AG output voltage is between 3 mV and 9 mV.

• VHF band

(a) Set the transceiver's power supply voltage to 7.2 V and set the frequency to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S].

Set transmission output to EL power.

- (b) Turn on the 750 μ sec. filter on the modulation analyzer.
- (c) Insert a microphone plug of the sort shown in Figure 5-6 into the external microphone socket. Set AG output to 1 kHz, 60 mV sine wave. Switch the transceiver to transmit mode.
- (d) Adjust R547 so that maximum deviation is ±5.0 kHz.
- (e) Confirm that the difference between the positive and negative maximum deviation (± 5.0 kHz) is 0.3 kHz or less. After confirmation, return the transceiver to the receive mode.
- (f) Set the modulation analyzer's high-pass filter to 50 Hz and the low-pass filter to 20 kHz. Turn on the 750 μ sec. filter. Switch the transceiver to transmit mode.
- (g) Adjust the output of the AG so that deviation is ±3.5 kHz.

At this point, confirm that distortion is 4% or less. After confirmation, return the transceiver to the receive mode.

(h) Remove the microphone plug from the AG. Confirm that the AG output voltage is between 3 mV and 9 mV.

1.2 GHz band

- (a) Set the transceiver's power supply voltage to 7.2 V and set the frequency to 1,270.00 MHz.
 Confirm that transmission output is set to EL power.
- (b) Turn on the 750 μ sec. filter on the modulation analyzer.
- (c) Insert a microphone plug of the sort shown in Figure 5-6 into the external microphone socket.

Set AG output to 1 kHz, 60 mV square wave. Switch the transceiver to transmit mode.

- (d) Adjust R545 so that maximum deviation is ± 5.0 kHz.
- (e) Confirm that the difference between the positive and negative maximum deviation (± 5.0 kHz) is 0.3 kHz or less. After confirmation, return the transceiver to the receive mode.
- (f) Set the modulation analyzer's high-pass filter to 50 Hz and the low-pass filter to 20 kHz. Turn on the 750 μ sec. filter.
- (g) Adjust the output of the AG so that deviation is ± 3.5 kHz. At this point, confirm that distortion is 4% or less. After confirmation, return the transceiver to the receive mode.
- (h) Remove the microphone plug from the AG. Confirm that the AG output voltage is between 3 mV and 9 mV.

— Tone burst adjustment and confirmation —

(a) Set the transceiver's power supply voltage to 7.2 V and set the frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A].

Set transmission output to EL power.

- (b) Insert a microphone plug of the sort shown in Figure 5-6 into the external microphone socket. Set AG output to 0 mV (non-modulated status).
- (c) Set the modulation analyzer's high-pass filter to 50 Hz and the low-pass filter to 20 kHz. Turn on the 750 μ sec. filter.
- (d) Switch the transceiver to the transmit mode and press the CALL key. Adjust R281 so that tone deviation is ± 3.5 kHz. At this point, confirm that distortion is 8% or less.
- (e) Confirm that the tone frequency is $1,750 \text{ Hz} \pm 10 \text{ Hz}$. After confirmation, return the transceiver to the receive mode.
- (f) Set the transceiver frequency to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S].
- (g) Perform the same settings described in steps (b) through (c).
- (h) Switch the transceiver to the transmit mode and press the CALL key. In this status, confirm that tone deviation is between ± 3.0 kHz and ± 4.0 kHz.
- (i) Set the transceiver frequency to 1,270.00 MHz
- (j) Perform the same settings described in steps (b) through (c).
- (k) Switch the transceiver to the transmit mode and press the CALL key. In this status, confirm that tone deviation is between ± 3.0 kHz and ± 4.0 kHz.

— DTMF adjustment and confirmation —

- (a) Set the transceiver's power supply voltage to 7.2 V and set the frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A].
- Set transmission output to EL power.
- (b) Set the modulation analyzer's high-pass filter to 50 Hz and the low-pass filter to 20 kHz. Turn on the 750 μ sec. filter.
- (c) Insert a microphone plug of the sort shown in Figure 5-6 into the external microphone socket. Set AG output to 0 mV (non-modulated status).
- (d) Set the transceiver to transmit status and press the "8" key on the keyboard.
 - Adjust R265 so that DTMF deviation is ±3.0 kHz.
- (e) At this point, confirm that the beep of a DTMF signal is audible from the transceiver's speaker.

- (f) Set the transceiver frequency to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S] and AG output to 0 mV (non-modulated status).
- (g) Set the transceiver to transmit status and press the "8" key on the keyboard. Confirm that DTMF deviation is between ±2.6 kHz and ±3.4 kHz.
- (h) Set the transceiver frequency to 1,270.00 MHz and AG output to 0 mV (non-modulated status).
- (i) Set the transceiver to transmit status and press the ''8'' key on the keyboard. Confirm that DTMF deviation is between ± 2.6 kHz and ± 3.4 kHz.

- Tone squelch unit (CTN560) -

NOTE: The C568A comes with the tone squelch unit already installed.

• Tone deviation confirmation

- (a) Install the tone squelch unit (CTN560) in the transceiver.
- (b) Set the transceiver's power supply voltage to 7.2 V and switch it on using the power key. (It is not necessary to reset the transceiver.)
- (c) Set the modulation analyzer's high-pass filter to off and the low-pass filter to 3 kHz. Turn on the 750 μ sec. filter.
- (d) Set the transceiver frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A].
- (e) While holding down the FUNC key, press the 7/TSQ key twice to switch to the tone squelch mode. Next, hold down the FUNC key and press the 0/SET/SB key to activate the set mode. Turn the rotary channel selector until "CF" appears on the display. Use the keyboard to set the tone frequency to 67.0 MHz.
- (f) Insert a microphone plug of the sort shown in Figure 5-6 into the external microphone socket. Set AG output to 0 mV (non-modulated status).
- (g) Switch the transceiver to the transmit mode and confirm that tone deviation is between ± 0.5 kHz and ± 0.9 kHz. At this point, confirm that distortion is 15% or less.

After confirmation, return the transceiver to the receive mode.

- (h) Set the tone frequency to 250.3 Hz and switch to the transmit mode.
- (i) Confirm that tone deviation is between ± 0.5 kHz and ± 0.9 kHz.

At this point, confirm that distortion is 15% or less. After confirmation, return the transceiver to the receive mode.

- (j) Set the transceiver frequency to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S]. Set AG output to 0 mV (non-modulated status).
- (k) Set the tone frequency to 67.0 Hz and switch to the transmit mode.
- (I) Confirm that tone deviation is between ± 0.5 kHz and ± 0.9 kHz. At this point, confirm that distortion is 15% or less.

After confirmation, return the transceiver to the receive mode.

- (m) Set the tone frequency to 250.3 Hz and switch to the transmit mode.
- (n) Confirm that tone deviation is between ± 0.5 kHz and ± 0.9 kHz.

At this point, confirm that distortion is 15% or less. After confirmation, return the transceiver to the receive mode.

- (o) Set the transceiver frequency to 1,270.00 MHz and set AG output to 0 mV (non-modulated status).
- (p) Set the tone frequency to 67.0 Hz and switch to the transmit mode.
- (q) Confirm that tone deviation is between ± 0.5 kHz and ± 0.9 kHz.

At this point, confirm that distortion is 15% or less. After confirmation, return the transceiver to the receive mode.

- (r) Set the tone frequency to 250.3 Hz and switch to the transmit mode.
- (s) Confirm that tone deviation is between ± 0.5 kHz and ± 0.9 kHz.
- At this point, confirm that distortion is 15% or less. After confirmation, return the transceiver to the receive mode.

NOTE: If the above adjustment values to not conform to specification, perform the deviation adjustment below.

Tone deviation adjustment

(a) Set the transceiver's power supply voltage to 7.2 V and set the transceiver frequency to 435.00 MHz [C568/C568S] or 444.00 MHz [C568A].

(b) While holding down the FUNC key, press the 7/TSQ key twice to switch to the tone squelch mode.

- Next, hold down the FUNC key and press the 0/SET/SB key to activate the set mode. Turn the rotary channel selector until "CF" appears on the display. Use the keyboard to set the tone frequency to 67.0 MHz.
- (c) Set the modulation analyzer's high-pass filter to off and the low-pass filter to 3 kHz. Turn on the 750 μ sec. filter.
- (d) Insert a microphone plug of the sort shown in Figure 5-6 into the external microphone socket. Set AG output to 0 mV (non-modulated status).
- (e) Switch the transceiver to the transmit mode. Adjust the semi-fixed resistor (UHF band) on the tone squelch unit so that tone deviation is ± 0.6 kHz. After adjustment, return the transceiver to the receive mode.
- (f) Set the transceiver frequency to 146.02 MHz [C568/C568A] or 145.02 MHz [C568S] and the tone frequency to 67.0 Hz.
- (g) Perform the same settings described in steps (c) and (d).
- (h) Switch the transceiver to the transmit mode. Adjust the semi-fixed resistor (VHF band) on the tone squelch unit so that tone deviation is ± 0.65 kHz. After adjustment, return the transceiver to the receive mode.

Semi-fixed resistor (VHF band)

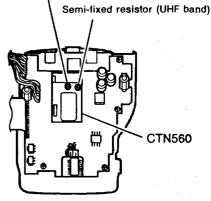


Figure 5-7

6. SPECIFICATIONS

6.1 General

430.000 - 439.995 MHz [C568/C5685] 438.000 - 449.995 MHz [C568/C5685] 1,240.000 - 1,299.90 MHz Frequency types F2, F3 Microphone input impedance 600 Ω Speaker impedance 8 Ω Operating voltage range DC 4.5 V - 15.0 V (using battery terminal) DC 5.0 V - 16.0 V (using external power supply socket) Rated voltage DC 7.2 V Current consumption (transmitting at 13.8 V) [High 5 W] Approx. 1,100 mA (144 MHz band) Approx. 950 mA (444 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 120 mA (14.00 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 120 mA (1.200 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 120 mA (140 MHz band) Approx. 34 mA (144 MHz mono band operation) [C568/C5685] <t< th=""><th>Frequency range</th></t<>	Frequency range
438.000 - 449.995 MHz [C568A] 1,240.000 - 1,299.900 MHz FZ, F3 Microphone input impedance FZ, F3 Microphone input impedance 600 Ω Speaker impedance 8 Ω Operating voltage range DC 4.5 V - 15.0 V (using battery terminal) DC 5.0 V - 16.0 V (using external power supply socket) Rated voltage DC 7.2 V Current consumption (transmitting at 13.8 V) [High 5 W] Approx. 1,300 mA (430 MHz band) Middle 2.5 W] Approx. 850 mA (430 MHz band) Approx. 950 mA (430 MHz band) Current consumption (transmitting at 7.2 V) [High 2.6 W] Approx. 860 mA (144 MHz band) Approx. 950 mA (430 MHz band) [Middle 2.5 W] Approx. 800 mA (144 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 V] Approx. 480 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 V] Approx. 120 mA (1430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 120 mA (1420 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 120 mA (1200 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 120 mA (1200 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 120 mA (1200 MHz band) Current consumpt	
1,240.000 - 1,299.990 MHz Frequency types F2, F3 Microphone input impedance 600 Ω Speaker impedance 8 Ω Operating voltage range DC 4.5 V - 15.0 V (using battery terminal) DC 5.0 V - 16.0 V (using external power supply socket) Rated voltage DC 7.2 V Current consumption (transmitting at 13.8 V) [High 5 W] Approx. 1,100 mA (144 MHz band) (Middle 2.5 W] Approx. 850 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (430 MHz band) Current consumption (transmitting at 7.2 V) [High 2.6 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 35 mW] Approx. 120 mA (1,200 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 35 mW] Approx. 100 mA (144 MHz band) Approx. 34 mA (144 MHz mono band operation) [C568/C568S] Approx. 34 mA (144 MHz mono band operation) [C568/C568S] Approx. 34 mA (144 MHz mono band operation) [C568/C568S] Approx. 49 mA (430 MHz mono band operation) [C568/C568S] Approx. 48 mA (430 M	
Frequency types F2, F3 Microphone input impedance 600 Ω Speaker impedance 8 Ω Operating voltage range DC 4.5 V - 15.0 V (using battery terminal) DC 5.0 V - 16.0 V (using external power supply socket) Rated voltage DC 7.2 V Current consumption (transmitting at 13.8 V) [High 5 W] Approx. 1,100 mA (144 MHz band) Approx. 950 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Current consumption (transmitting at 7.2 V) [High 2.6 W] Approx. 850 mA (144 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [High 2.6 W] Approx. 800 mA (144 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 480 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 60 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 60 mA (ti44 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 60 mA (ti44 MHz band/430 MHz band) Current consumption (transmitting at	1 240 000 - 1 299 990 MHz
Microphone input impedance 600 Ω Speaker impedance 8 Ω Operating voltage range DC 4.5 V - 15.0 V (using battery terminal) DC 5.0 V - 16.0 V (using external power supply socket) Rated voltage DC 7.2 V Current consumption (transmitting at 13.8 V) [High 5 W] Approx. 1,100 mA (144 MHz band) Approx. 1,300 mA (430 MHz band) Current consumption (transmitting at 7.2 V) [High 2.6 W] Approx. 850 mA (144 MHz band) Approx. 980 mA (430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 480 mA (144 MHz band/A30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Le 50 mW] Approx. 100 mA (144 MHz band/A30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Le 50 mW] Approx. 100 mA (144 MHz band/A30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Le 50 mW] Approx. 100 mA (144 MHz band/A30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Le 50 mW] Approx. 100 mA (144 MHz band/A30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Le 50 mW] Approx. 100 mA (144 MHz band/A30 MHz band) Current consumption (standby mode) Approx. 68 mA (twin band operation) [C568/C568S] Approx. 48 mA (430 MHz mono band operation) [C568/C568S] Approx. 48 mA (430 MHz mono band operation) [C568/C568S] Approx. 49 mA (1,200 MHz mo	Frequency types
Speaker impedance 8 Ω Operating voltage range DC 4.5 V - 15.0 V (using battery terminal) DC 5.0 V - 16.0 V (using external power supply socket) Rated voltage DC 7.2 V Current consumption (transmitting at 13.8 V) [High 5 W] Approx. 1,100 mA (144 MHz band) Approx. 1,300 mA (430 MHz band) Current consumption (transmitting at 7.2 V) [High 2.6 W] Approx. 860 mA (144 MHz band) Approx. 950 mA (430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [High 2.6 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 480 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/30 MEz band) Current consumption (standby mode) Approx. 40 mA (144 MHz mono band o	
Operating voltage range DC 4.5 V - 15.0 V (using battery terminal) DC 5.0 V - 16.0 V (using external power supply socket) Rated voltage DC 7.2 V Current consumption (transmitting at 13.8 V) [High 5 W] Approx. 1,100 mA (144 MHz band) Approx. 1,300 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) Current consumption (transmitting at 7.2 V) [High 2.6 W] Approx. 850 mA (144 MHz band) Approx. 980 mA (430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 35 mW] Approx. 120 mA (1,200 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 35 mW] Approx. 120 mA (1,200 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 35 mW] Approx. 120 mA (1,200 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 35 mW] Approx. 120 mA (1,200 MHz band) Current consumption (standby mode) Approx. 48 mA (430 MHz band) [E688/C568	• • •
DC 5.0 V - 16.0 V (using external power supply socket) Rated voltage DC 7.2 V Current consumption (transmitting at 13.8 V) [High 5 W] Approx. 1,100 mA (144 MHz band) Approx. 1,300 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) Current consumption (transmitting at 7.2 V) [High 2.6 W] Approx. 880 mA (144 MHz band) Approx. 980 mA (430 MHz band) [Middle 2.5 W] Approx. 880 mA (144 MHz band) Approx. 980 mA (430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 480 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 120 mA (1,200 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 55 mW] Approx. 100 mA (144 MHz band) Current consumption (standby mode) Approx. 48 mA (144 MHz mono band operation) [C568/C568S] Approx. 34 mA (144 MHz mono band operation) [C568/C568S] App	
Current consumption (transmitting at 13.8 V)	DC 5.0 V - 16.0 V (using external power supply socket)
Approx. 1,300 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) Current consumption (transmitting at 7.2 V)	
[Middle 2.5 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) Current consumption (transmitting at 7.2 V)	
Approx. 950 mA (430 MHz band) Current consumption (transmitting at 7.2 V)[High 2.6 W] Approx. 880 mA (144 MHz band) Approx. 980 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band/30 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V)	
Current consumption (transmitting at 7.2 V)	
Approx. 980 mA (430 MHz band) [Middle 2.5 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 480 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V)	
[Middle 2.5 W] Approx. 850 mA (144 MHz band) Approx. 950 mA (430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 480 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 35 mW] Approx. 120 mA (1,200 MHz band) Current consumption (standby mode) Approx. 65 mA (twin band operation) [C568/C568S] Approx. 68 mA (twin band operation) [C568/C568S] Approx. 34 mA (144 MHz mono band operation) [C568/C568S] Approx. 37 mA (144 MHz mono band operation) [C568A] Approx. 48 mA (430 MHz mono band operation) [C568A] Approx. 49 mA (1,200 MHz mono band operation) [C568A] Approx. 49 mA (1,200 MHz mono band operation) [C568A] Approx. 52 mA (1,200 MHz mono band operation) [C568A] Approx. 54 mA (1,200 MHz mono band operation) [C568A] Approx. 55 mA (1,200 MHz mono band operation) [C568A] Approx. 56 mA (1,200 MHz mono band operation) [C	
Approx. 950 mA (430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 480 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 35 mW] Approx. 120 mA (1,200 MHz band) Current consumption (standby mode)	
Current consumption (transmitting at 13.8 V/7.2 V) [Low 0.35 W] Approx. 480 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V) [EL 35 mW] Approx. 120 mA (1,200 MHz band) Current consumption (standby mode)	
Current consumption (transmitting at 13.8 V/7.2 V) [EL 50 mW] Approx. 100 mA (144 MHz band/430 MHz band) Current consumption (transmitting at 13.8 V/7.2 V)	
Current consumption (transmitting at 13.8 V/7.2 V)	
Current consumption (standby mode)	
Approx. 68 mA (twin band operation) [C568A] Approx. 34 mA (144 MHz mono band operation) [C568/C568S] Approx. 37 mA (144 MHz mono band operation) [C568/C568S] Approx. 37 mA (144 MHz mono band operation) [C568/C568S] Approx. 45 mA (430 MHz mono band operation) [C568/C568S] Approx. 48 mA (430 MHz mono band operation) [C568/C568S] Approx. 49 mA (1,200 MHz mono band operation) [C568/C568S] Approx. 52 mA (1,200 MHz mono band operation) [C568/C568S] Approx. 52 mA (1,200 MHz mono band operation) [C568/S68] Approx. 53 mA (1,200 MHz	
Approx. 34 mA (144 MHz mono band operation) [C568/C568S] Approx. 37 mA (144 MHz mono band operation) [C568/C568S] Approx. 37 mA (144 MHz mono band operation) [C568A] Approx. 45 mA (430 MHz mono band operation) [C568A] Approx. 48 mA (430 MHz mono band operation) [C568A] Approx. 49 mA (1,200 MHz mono band operation) [C568/C568S] Approx. 52 mA (1,200 MHz mono band operation) [C568A] Current consumption (save 0.75-second mode) Dimensions (including battery, excluding protrusions)	
Approx. 45 mA (430 MHz mono band operation) [C568/C568S] Approx. 48 mA (430 MHz mono band operation) [C568/C568S] Approx. 49 mA (1,200 MHz mono band operation) [C568/C568S] Approx. 52 mA (1,200 MHz mono band operation) [C568/C568S] Approx. 52 mA (1,200 MHz mono band operation) [C568/C568S] Dimensions (including battery, excluding protrusions)	
Approx. 48 mA (430 MHz mono band operation) [C568A] Approx. 49 mA (1,200 MHz mono band operation) [C568/C568S] Approx. 52 mA (1,200 MHz mono band operation) [C568A] Current consumption (save 0.75-second mode) Dimensions (including battery, excluding protrusions) Weight (including battery and antenna) Approx. 48 mA (430 MHz mono band operation) [C568/C568S] 47.0 (W) x 130.5 (H) x 34.0 (D) mm [C568/C568S] 47.0 (W) x 134.5 (H) x 34.0 (D) mm [C568A] Weight (including battery and antenna)	Approx. 37 mA (144 MHz mono band operation) [C568A]
Approx. 49 mA (1,200 MHz mono band operation) [C568/C568S] Approx. 52 mA (1,200 MHz mono band operation) [C568A] Current consumption (save 0.75-second mode) Dimensions (including battery, excluding protrusions) Weight (including battery and antenna)	Approx. 45 mA (430 MHz mono band operation) [C568/C568S]
Approx. 52 mA (1,200 MHz mono band operation) [C568A] Current consumption (save 0.75-second mode) Dimensions (including battery, excluding protrusions) 47.0 (W) x 130.5 (H) x 34.0 (D) mm [C568/C568S] 47.0 (W) x 134.5 (H) x 34.0 (D) mm [C568A] Weight (including battery and antenna)	Approx. 48 mA (430 MHz mono band operation) [C568A]
Current consumption (save 0.75-second mode)Approx. 28 mA (twin band operation)Dimensions (including battery, excluding protrusions)47.0 (W) x 130.5 (H) x 34.0 (D) mm [C568/C568S]47.0 (W) x 134.5 (H) x 34.0 (D) mm [C568A]Weight (including battery and antenna)Approx. 360 g [C568/C568S]	
Dimensions (including battery, excluding protrusions) 47.0 (W) x 130.5 (H) x 34.0 (D) mm [C568/C568S] 47.0 (W) x 134.5 (H) x 34.0 (D) mm [C568A] Weight (including battery and antenna)	
47.0 (W) x 134.5 (H) x 34.0 (D) mm [C568A] Weight (including battery and antenna)	
Weight (including battery and antenna)	
Approx. 390 g [C568A]	
	Approx. 390 g [C568A]

6.2 Receiver Block

Reception method	Double super heterodyne
Intermediate frequencies	(Left display band) first IF 21.8 MHz
	Second IF 455 kHz
	(Right display band) first IF 23.05 MHz
	Second IF 450 kHz
Reception sensitivity	(Left display band) 144 MHz band 0.16 μ V
	430 MHz band 0.18 μV
	(Right display band) 144 MHz band 0.16 μ V
	430 MHz band 0.16 μV
,	1,200 MHz band 0.28 μ V
S/N at 0.5 mV input	
Squelch open sensitivity	0.1 μV
Audio output	

6.3 Transmitter Block

Using CNB171/173 Using CNB172 Transmission output power (middle) Transmission output power (low) Transmission output power (EL)	Approx. 2.5 W (144 MHz band/430 MHz band) Approx. 2.6 W (144 MHz band/430 MHz band) Approx. 5.0 W (144 MHz band/430 MHz band) Approx. 2.5 W (144 MHz band/430 MHz band) Approx. 0.35 W (144 MHz band/430 MHz band) Approx. 50 mW (144 MHz band) Approx. 50 mW (140 MHz band) Approx. 35 mW (1,200 MHz band) Reactance modulation
Maximum frequency deviation	
6.4 DTMF	
- DTMF encoder -	
— DTMF decoder —	
NOTE: The squelch open sensitivity is the value when c (a) The modulation frequency is flat.	onditions (a) through (d) below are satisfied.
 (a) The modulation requercy is hat. (b) [8] key modulation is ±3.2 kHz. (c) The paging mode is activated using the [777 (d) Activated using the set command [dtSP nor] 	
6.5 Tone Squelch Unit (CTN560)	
input voltage	
— Encoder —	
— Decoder —	
Open level Response time	

Due to performance improvements, specifications are subject to change without notice.

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7. PARTS LIST

• Parts list

The parts list contains information on electrical and mechanical parts. Electrical parts are listed first, followed by mechanical parts. Parts used only in the C568 are indicates by the notation [C568] in the description column. Parts used only in the C568S are indicates by the notation [C568S] in the description column. Parts used only in the C568A are indicates by the notation [C568A] in the description column.

• Chip parts

Part numbers whose first three characters correspond to the following codes indicate chip parts.

– Capacitors –	– Resistors –	– Semiconductors –	– Coils –
DD4	NI	BA	LU
DD5	NN	НХ	
DD9	NY	HY	
DF9	RI	HZ	
DK4			
DK5			
DK9			
EY			
Ordering replacement parts			
Please supply the following information	tion.		

Part symbol (4 characters)

Part number (10 characters)

"Description"

Model and serial number

ref. Desig.	QTY	PART NO.	DESC	RIPTION		REF. DESIG.	QTY	PART NO.	DES	CRIPTION
			P201 CONTROL	P.C.BOARD				×	P201 CONTROL	P.C.BOARD
P20 1	1	WG266X2015	CONTROL P.C.BC	DARD		C261	1	DD95221300	220 pF	±5% (CG)
						C263	1	DK96471300	470 pF	± 10 %
C201	1	EY22600470	TANTALUM CAP.	22 μ F/4 V		C264	1	DK98332300	3300 pF	± 10 %
C202	1	DK96102300	1000 pF	± 10 %		C265	1	DK96223200	0.022 μF	± 10 %
C203	1	DK96102300	1000 pF	± 10 %	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	C266	1	DK98223200	0.022 μF	± 10 %
C204	1	EY47501050	TANTALUM CAP.	4.7 μF/10 V		C267	1	DD95221300	220 pF	±5% (CG)
C205	1	EY10600650	TANTALUM CAP.	10 μF/6.3 V		C269	1	DK98103200	0.01 μF	± 10 %
C206	1	DK96102300	1000 pF	± 10 %						
C207	1	DK96102300	1000 pF	± 10 %		C271	1	DK96103200	0.01 μF	± 10 %
C208	1	EY33600450	TANTALUM CAP.		· ·	C272	1	DK56104200	0.1 μF	± 10 %
C209	1	KC097X001R	TANTALUM CAP.			C273	1	DK96102300	1000 pF	± 10 %
C210	1	EY22600470	TANTALUM CAP.	22 μF/4 V		C274	1	EY10501610	TANTALUM CAR	Ρ. 1 μF/16 V
						C275	1	DK96102300	1000 pF	± 10 %
C211	1	KC097X001R	TANTALUM CAP.		ł	C276	1	DK96103200	0.01 μF	± 10 %
C212	1	DK98102300	1000 pF	± 10 %		C277	1	DK96103200	0.01 μF	± 10 %
C213	1	EY10800850	TANTALUM CAP.	•		C278	1	DK96102300	1000 pF	± 10 %
C214	1	DK98473200	0.047 μF	± 10 %		C279	1	DD95101300	100 pF	±5% (CG)
C215	1	DD95470300	•	±5% (CG		C280	1	DD95101300	100 pF	±5% (CG)
C218	1	DD95470300	•	±5% (CG	i)	1				
C217	1	DK58224200	0.22 μF			C284	1	KC266X003R	TANTALUM CAP	Ρ. 22 μF/10 V
C218	1	DD95430300		± 5 % (CG	· .	C285	1	EY22600470	TANTALUM CAP	
C219	1	DD95390300		± 5 % (CG		C287	1	DK96102300	1000 pF	± 10 %
C220	1	DD95470300	47 pF	±5% (CG	i)	C289	1	EY10700630	TANTALUM CAP	Ρ. 100 μ F/6.3 V
0004		DDoctorooo	40 - F			0000				
C221		DD95430300	43 pF	± 5 % (CG	i) [C291	1	KC097X001R	TANTALUM CAP	
C222	1	DK96473200	•	± 10 %		C292	1	DK96102300	1000 pF	± 10 %
C223	1	DK96473200	•	± 10 %		C293	1	DK96102300	1000 pF	± 10%
C224	1	DK96103200	0.01 μF	± 10 %	. I	C296	1	DK96102300	1000 pF	± 10 %
C225	1	DK96103200	0.01 μF	± 10 %		C297	1	DK96103200	0.01 μF	± 10 %
C226	1	DK96102300	1000 pF	± 10 %		C298	1	DK96103200	0.01 μF	± 10 %
C227	1	EY10503570	TANTALUM CAP.		· .	C299	1	DK96102300	1000 pF	± 10 %
C228	1	DK96102300	•	± 10 %		C300	1	DK96102300	1000 pF	± 10 %
C229	1	DK96272300	2700 pF	± 10 %				.		
C230	1	DK96223200	0.022 μF	± 10 %	1156	C301	1	DK98473200	0.047 μF	± 10 %
0004		Direct Trace	470 F			C302	1	DK96473200	0.047 μF	± 10 %
C231	1	DK96471300	•	± 10 %		C303	1	DK96473200	0.047 μF	± 10 %
C232	1	DK56104200	•	± 10 %		C304	1	DK96103200	0.01 μF	± 10 %
C233	1	DK56562300		± 10 %		Food		OKOODOOD		
C234	1	DD95680300	•	± 5% (CG	¹⁾	E201	1	QK0038901R	SPEAKER T036	S23D0010
C235 C236	1	DK56104200 DK96103200	0.1 μF 0.01 μF	± 10 %		J201		VIOTODOFAD		
		KC097X001R		± 10 %				YJ0700958R	SOCKET 5PIN (
C237 C238						J202	'	YJ0700957R	SOCKET 12PIN	(IUNE SUL)
	1	DK96472300	•	± 10 %		1004		1111510101		
C239	1	DK56104200	0.1 μF	± 10 %		L201	1	LU1510401R	INDUCTOR 100	
C		DKORLASSO	0.01	+ 10 %		L202	1	FC9002003R	FERRITE CORE	
C241	1	DK96103200		± 10 %		L204	1	FC9002003R	FERRITE CORE	
C242	1	EY10501810	TANTALUM CAP.		· · · · · · · · · · · · · · · · · · ·	L205	1	FC9002003R	FERRITE CORE	
C244		DK96102300	-	± 10 %	1	L208	1	KL102X002R	INDUCTOR 1 μ	MLF2012A
C245	1	DK96102300	•	± 10 %					07000	
C246	1	EG10700650	ELECT. CAP.			Q001	1	KH044Y8010	CTCSS UNIT(CT	[N560) [C56
C247		EG10700650		100 μF/6.3 V						
C248		DK56563200	•	± 10 %	1	Q201		HC98A3253R	IC SCI7710YCA	
C249	1	DK56563200	0.056 μF	± 10%		Q202	1	HZ2002521R	DIODE 188353	
C250	1	EY22500630	TANTALUM CAP.	2.2 μr/6.3 V	N	Q203	1	HZ2004702R	DIODE MA729	
0054		EVOS	TANTALINA CAR	0.0		Q204		HI1000186R	L.E.D. CL- 170U	IN-CD-1
C251		EY22500630	TANTALUM CAP.	-		Q205	1	HC1000877R	IC RH5RH651A	
C252		DK96102300	1000 pF	± 10 %		Q206	1	BA1000306R		SISTOR HQ1A4A
C253	1	DK96223200	0.022 µF	± 10 %		Q207	1	BA9000821R	DIGITAL TRANS	
C254	1	DK96223200		± 10 %		Q208		BA9001121R	DIGITAL TRANS	
C255		DK96223200		± 10 %		Q209	1	HU266XH10R		SOR HD404629C26TF
C256		DK96223200		± 10 %		Q210	1	HC1005753R	IC S-80740SN-	D4
C257	1	EY22600470	TANTALUM CAP.	•	1	1				
C259	1	DK96471300	470 pF	± 10 %		1				
C260	1	DK96332300	3300 pF	± 10 %		1				
	ľ					1				
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ref. Desig.	QTY	PART NO.	DESCRIPTION	REF. DESIG.	QTY	PART NO.	DESCRIPTIC	DN
		RAGE	P201 CONTROL P.C.BOARD				P201 CONTROL P.C.BOA	AD
0044		HC1001577R		Bees			110	
Q211 Q212	1	HC1001577R HX214621AR	IC RN5VL27CA	R221 R222		NN05105610	1MΩ ±5%	1/16 W
Q212	1	HZ2002521R	TRANSISTOR 2SB1462 DIODE 1SS353	R223	1	NN05473610 NN05223610	47 kΩ ± 5%	1/16 W
	-						22 kΩ ± 5%	1/16 W
Q214 Q215	1	HZ2002521R HC445305SR	DIODE 188353 IC TC4W53FU	R224 R225		NN05102610 NN05224610	1 kΩ ± 5 % 220 kΩ ± 5 %	1/16 W
Q215	1	HC1034303R	IC LC73881M	R225	1	NN05103610	220 kΩ ± 5% 10 kΩ ± 5%	1/16 W 1/16 W
Q217		HC1034303R	IC LC73881M	R227		NN05103610		
Q218		HZ20013210	DIODE DAP202U	R228		NN05103610 NN05473610	10 kΩ ±5%	1/16 W
Q219	1		IC TC4W53FU	n220	l '	11103473610	47 kΩ ± 5 %	1/16 W
		HC445305SR		Door		11/10/10/00/00		[C568S/C56
Q220		HC1025405R	IC TC4S66F	R229	1	NY01030300	TRIMM.RESISTOR 10 k Ω	
0004		BALOOLOOLD	DIGITAL TRANSISTOR UNAA	R230	1	NY01040300	TRIMM.RESISTOR 100 k	\$2 MVH22
Q221	1	BA1004221R	DIGITAL TRANSISTOR UMA8					
Q222	1	HC1011809R	IC NJM2100E	R231		NY01040300	TRIMM.RESISTOR 100 k	
Q223	1	BA2004321R	DIGITAL TRANSISTOR DTC144EE	R232	1	NN05104610	100 kΩ ± 5 %	1/16 W
Q224	1	HZ3075121R	DIODE DTZ7.5B	R233	1	NN05104610	100 kΩ ± 5 %	1/16 W
Q226	1	BA1000306R		R234		NN05102610	1 kΩ ± 5%	1/16 W
Q227		BA9000821R		R235		NN05102610	1 kΩ ± 5%	1/16 W
Q228	1	HC10067090		R236		NN05102610	1 kΩ ± 5%	1/16 W
Q229	1	BA1004121R		R237		NN05102610	1kΩ ±5%	1/16 W
Q230	1	HC445305SR	IC TC4W53FU	R238		NN05102610	1kΩ ±5%	1/16 W
0000		HOLESSE	10 102000511	R239	1	NN05224610	220 kΩ ± 5%	1/16 W
Q231		HC408605IR		R240	1	NN05224610	220 kΩ ±5%	1/16 W
Q232		HC445305SR						· · · · · · ·
Q233		HX346171BR	TRANSISTOR 2SC4617 (R)	R241	1	NN05473810	47kΩ ±5%	1/16 W
Q234	1	HX346171BR	TRANSISTOR 2SC4617 (R)				aaa 1. O	[C56
Q235		HY101441AR	FET 2SJ144 (Y)	R242	1	NN05224810	220 kΩ ± 5%	1/16 W
Q237	1	HY101441AR	FET 2SJ144 (Y)	R245	1	NN05474610	470 kΩ ± 5%	1/16 W
Q238	1	BA2004321R	DIGITAL TRANSISTOR DTC144EE	R246	1	NN05124610	120 kΩ ± 5%	1/16 W
Q239	1	BA1000802R	DIGITAL TRANSISTOR UN911H	R247	1	NN05103610	10 kΩ ± 5%	1/16 W
Q240	1	HX214621AR	TRANSISTOR 2SB1462	R248	1	NN05124610	120 kΩ ± 5%	1/16 W
0000		B4000000		R249		NN05103610	10 kΩ ± 5%	1/16 W
Q241	1	BA9000821R	DIGITAL TRANSISTOR UMW1	R250	1	NN05104610	100 kΩ ± 5 %	1/16 W
Q242	1	HZ3160221R	DIODE DTZ16A					
Q243	1	HZ3000321R		R251	1	NN05473610	47 kΩ ± 5%	1/16 W
Q245	1	BA1000802R	DIGITAL TRANSISTOR UN911H	R252	1	NN05333610	33 kΩ ± 5%	1/16 W
Q246	1	BA9000821R		R253	1	NN05333610	33 kΩ ± 5%	1/16 W
Q247	1	HY2158000R	FET 2SK1580	R254	1	NN05104610	100 kΩ ± 5 %	1/16 W
Q248	1	HZ2005005R	DIODE 1SS366	R255	1	NN05104610	100 kΩ ± 5 %	1/16 W
Q249	1	HZ2005005R	DIODE 1SS368	R256	1	NN05273610	27 kΩ ± 5%	1/16 W
Deer		NINDELECOLO	150 0 1 5 6 4 4 4 4 1	R257	1	NN05273810	27 kΩ ± 5%	1/16 W
R201	1	NN05151610	150 Ω ± 5 % 1/16 W	R258	1	NN05000610	0Ω ±5%	1/16 W
R202		NN05000610	0 Ω ± 5 % 1/16 W	R259		NN05623610	82 kΩ ± 5%	1/16 W
R203	1	NN05100610	10 Ω ± 5 % 1/16 W	R260	1	NN05000810	0 Ω ±5%	1/16 W
R204	1	NN05153610	15 k Ω ± 5 % 1/16 W	l _				
R205	1	NN05103610	10 kΩ ± 5 % 1/16 W	R262	1	NN05563610	56 kΩ ± 5 %	1/16 W
R206	1	NN05470610	47 Ω ± 5 % 1/16 W	R263	1	NN05393610	39 kΩ ± 5 %	1/16 W
R207	1	NN05472610	4.7 kΩ ± 5 % 1/16 W	R264	1	NN05124610	120 kΩ ± 5%	1/16 W
R206	1	NN05103610	10 k Ω ± 5 % 1/18 W	R265	1	NY01040220	TRIMM.RESISTOR 100 k	
R209	1	NN05224610	220 k Ω ± 5 % 1/16 W	R266	1	NN05824610	820 kΩ ± 5 %.	1/16 W
R210	1	NN05105810	1 M Ω ± 5 % 1/16 W	R268	1	NN05471610	470Ω ±5%	1/16 W
				R269	1	NN05333610	33 kΩ ± 5 %	1/16 W
R211	1	NN05564610	560 k Ω ± 5 % 1/16 W	R270	1	NN05153610	15 kΩ ± 5 %.	1/16 W
R212	1	NN05224610	220 k Ω ± 5 % 1/16 W					
R213	1	NN05224610	220 k Ω ± 5 % 1/16 W	R271	1	NN0139361R		1/16 W
R214	1	NN05103610	10 k Ω ± 5 % 1/16 W	R272	1	NN05103610	10 kΩ ± 5 %	1/16 W
R215	1	NN05332610	3.3 k Ω ± 5 % 1/16 W	R273	1	NN0156361R	56 kΩ ± 1%	1/16 W
R216	1	NN05332610	3.3 kΩ ± 5 % 1/16 W	R274	1	NN05102610	1kΩ ±5%	1/16 W
R217	1	NN05104610	100 k Ω ± 5 % 1/16 W	R275	1	NN05474610	470 kΩ ± 5 %	1/16 W
R218	1	NN05105810	1 M Ω ± 5 % 1/16 W	R276	1	NN05683610	68 kΩ ± 5 %	1/16 W
R219	1	NN05474610	470 kΩ ± 5 % 1/16 W	R277	1	NN05223610	22 kΩ ± 5 %	1/16 W
R220	1	BW05102020	NETWORK RESISTOR 1 kΩ MNR14E0A	R278	1	NN05663610	68 kΩ ± 5 %	1/16 W
				R279	1	NN05102610	1kΩ ±5%	1/16 W
				R260	1	NN05102610	$1k\Omega$ $\pm 5\%$	1/16 W
				1 1200	1	11105102010	•nas ⊥370	1/10 44
		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -						

ref. Desig.	Q'TY	PART NO.	DES	SCRIPTIO	N	REF. Desig.	QTY	PART NO.	DE	SCRIPTION	1
			P201 CONTROL	L P.C.BOAR	D .				P201 CONTRO	L P.C.BOAR	D
R261	1	NY01040220	TRIMM.RESIST	OR 100 k Ω	EVM1XS	R341	1	BW05102020	NETWORK RE	SISTOR 1 k	
R282	1	NN05223610	22 k Ω	± 5 %	1/16 W	R342	l i	NN05102610	1 kΩ	± 5 %	1/16 W
R283	1	NN05472610	4.7 kΩ	± 5%	1/16 W	R343	1	NN05104610	100 k Ω	± 5 %	1/16 W
R284	1	NN05000610	0Ω	± 5 %	1/16 W	R344	1	NN05104610	100 k Ω	± 5 %	1/18 W
R285	1	NN05022610	2.2 Q	± 5 %	1/16 W	R345	1	NN05103610	10 k Ω	± 5 %	1/16 W
R286	1	NN05123610	12 k Q	± 5 %	1/16 W	R346	1	RD0104017R	VARIABLE RE		
R287	i	NN05103610	10 k Ω	± 5%	1/16 W	R347	i	RD0104017R	VARIABLE RE		
R288	1	NN05022610	2.2 Q	± 5%	1/16 W	R348	i	NN05474610	470 k Ω	± 5 %	1/16 W
R289	1	NN05022610	2.2 Q	± 5%	1/16 W	R349	;	NN05124610	120 k Ω	± 5%	1/16 W
R290	1	NN05151610	150 Ω	± 5%	1/16 W	R350	i	NN05470610	47 Ω	± 5%	1/16 W
R291	1	NN05102610	1 kΩ	± 5 %	1/16 W	R351	1	NN05000610	0 Ω	±5%	1/16 W
R292	i	NN05102610	1kΩ	± 5 %	1/16 W	R352	i	NN05220610	22 Ω	± 5%	1/16 W
R293	1	NN05151610	150 Ω	± 5%	1/16 W	R353	i	NN05103810	10 k Ω	± 5 %	1/16 W
R294	1	NN05223610	22 k Ω	± 5%	1/16 W	R354	1	NN05153610	15 k Ω	± 5%	1/16 W
R295	1	NN05103610	10 k Ω	± 5%	1/16 W	R355		NI05000110	0Ω	± 5%	1/10 W
	-										
R296	1	NN05103610	10 k Ω 22 k Ω	± 5%.	1/16 W	R356		NN05474610	470 kΩ	± 5 %	1/16 W
R297	1	NN05223610	22 k Ω	± 5%	1/16 W	R357		NN05000610	0Ω 47k0	± 5%	1/16 W
R298	1	NN05123610	12 k Ω	± 5%	1/16 W	R358	1	NN05472610	4.7 kΩ	± 5%	1/16 W
R299	1	NN05123610	12 k Q	± 5%	1/16 W	R359	1	NN05473610	47 kΩ	± 5 %	1/16 W
R300	1	NN05103610	10 k Ω	± 5%	1/16 W	R360	1	NN05223610	22 k Q	± 5 %	1/18 W
R301	1	NN05103610	10 k Q	± 5%6	1/16 W	R361	1	NN05563610	56 k Ω	± 5%	1/18 W
R302	1	NN05102610	1 k Ω	±5%6	1/16 W	R362	1	NN05563610	56 k Ω	±5%6	1/18 W
R303	1	NN05102610	1 k Ω	±5%6	1/16 W	R363	1	NI05000110	0Ω	±5%5	1/10 W
R304	1	NN05474610	470 k Ω	± 5%	1/16 W	R364	1	NN05104610	100 k Ω	± 5%	1/18 W
R305	1	NN05103610	10 k Ω	±5%	1/16 W	R365	1	NN05105610	1 M Ω	±5%	1/16 W
R306	1	NN05104610	100 k Ω	±5%5	1/16 W	R366	1	NN05105610	1 M Ω	± 5%	1/16 W
R307	1	NN05104610	100 k Ω	± 5%	1/16 W	R367	1	NP05224610	220 k Ω	± 5%	1/16 W
R308	1	NN05334610	330 k Ω	± 5%	1/16 W	R368	i	NP05224610	220 k Ω	± 5%	1/16 W
R309	i	NN0515561R	1.5 M Ω	± 5%	1/16 W		1				
R310	1	NN05222610	2.2 k Ω	± 5%	1/16 W	S201	1	SP0101219R	PUSH SWITCH		
	1.		·· 36		.,	S201	1	SP0101219R	PUSH SWITCH		5
R311	1	NN05474610	470 k Ω	± 5%	1/16 W		'		10011001101	SNGGAD	
R312	1	NN05103610	10 k Ω	± 5%	1/16 W	W002	1	WE233X2002	FLEXIBLE P.C	ROARD	
R312	1	NN05104610	100 k Ω	± 5%	1/16 W	W002	i	WE233X2002	FLEXIBLE P.C		
R314	1	NN05104810	100 k Ω	± 5%	1/16 W	W003	1	WE266X1000	FLEXIBLE P.C		
R315	1	NN05334610	330 k Ω	± 5%	1/16 W	W004		WE266X2000	FLEXIBLE P.C		
	-					W005					
R316	1	NN0515561R	1.5 M Ω	± 5%	1/16 W	1 4000	1	WE266X3000	FLEXIBLE P.C	BUARD	
R317	1	NN05222610	2.2 k Q	± 5 %	1/16 W						
R318	1	NN05103610	10 k Ω	± 5%	1/16 W	X201		FQ0400406R	CERAMIC VIB.		
R319	1	NN05472610	4.7 k Ω	± 5%	1/16 W	X202	1	FQ0419406R	CERAMIC VIB.		
R320	1	NN05224610	220 k Ω	±5%	1/16 W	X203	1	FQ0419406R	CERAMIC VIB.	CSAC4.19M	GC200
R321	1	NN05103610	10 k Ω	±5%	1/ 16 W						
R323	1	NN05473610	47 kΩ	± 5%	1/16 W		I	· · ·			
R324	1	NN05473610	47 k Ω	± 5%	1/16 W			1	P202 PTT P.	C.BOARD	
R328	1	NN05474610	470 k <u>Ω</u>	± 5%	1/16 W		l I				
R 327	1	NN05224610	220 k Ω	± 5%	1/16 W	P202	1	WG266X2025	PTT P.C.BOAF	D	
R328	1	NN05103610	10 k Ω	± 5%	1/16 W						
R329	1	NN05474610	470 k Ω	± 5%	1/18 W	C282	1	DK96102300	1000 pF	± 10 %	
7330	1	NN05222610	2.2 k Ω	± 5%	1/16 W	C266	1	DD95470300	47 pF	± 5 %	(CG)
332	1	NN05472610	4.7 k Ω	±5%	1/16 W	S204	1	SP0101219R	PUSH SWITCH	SKOGAB	
R333		NN05102610	1kΩ	± 5%	1/16 W						
R334	1	NN05105610	1 M Ω	± 5 %	1/16 W						
R335		NN05473610	47 kΩ	± 5%	1/16 W	1				1	
R338		NN05333610	33 kΩ	± 5%	1/16 W			I	P203 FUNCT		
R337		NN05473610	47 kΩ	±5%	1/18 W		1	1 . I	. 200 / 0/101		
	1.					Deer		woneeveel	ELINOTION C		
R338	1	NN05474810	470 k Ω	± 5%	1/18 W	P203	1	WG266X2035	FUNCTION P.O	J.BUARD	
7339 7340	1	NN05474610 NN05474610	470 k Ω 470 k Ω	±5%6 ±5%6	1/16 W 1/16 W	S203	1	SP0101219R	PUSH AWITCH		
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ref. Desig.	QTY	PART NO.	DESCRIPTIO	N	REF. DESIG.	QTY	PART NO.	C	DESCRIPTIO	N
			P204 POWER SW P.C.E	BOARD			3 336 .	P206 LCD P	C.BOARD	
P204	1	WG266X2045	POWER SW P.C.BOARD		R101	1	NN05820610	82 Ω	± 5%	1/16 W
				5	R102	1	NN05470810	47 Ω	± 5 %	1/16 W
C283	1	DK96102300	1000 pF ± 10 %	(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	R103	1	NN05822610	8.2 k Ω	± 5 %	1/16 W
					R104	1	NN05393610	39 k Ω	± 5%	1/16 W
S205	1	SP0101219R	PUSH SWITCH SKQGAB		R105	1	NN05221810	220 Ω	± 5%	1/16 W
					R106	1	NN05221610	220 Ω	± 5 %	1/16 W
					R107	1	NN05393810	39 k Ω	±5%	1/18 W
					R108	1	NN05331610	330 Ω	± 5%	1/18 W
			P205 KEY BOARD P.C.	BOARD	R109	1	NN05623610	82 k Ω	± 5%-	1/16 W
					R110	1	NN05471610	470 Ω	± 5 %	1/16 W
P205	1	WG266X2055	KEY BOARD P.C.BOARD							
0454		DV00100000	1000 - 5 + 10 %		R111		NN05393610	39 k Ω	± 5%	1/16 W
C151	1	DK96102300	1000 pF ± 10 %	·	R112		NN05271810	270 Ω	± 5%	1/16 W
C152	1	DK96102300 DK96102300	1000 pF ± 10 %		R113	1	NN05823810	82 k Ω	± 5 %	1/18 W
C153 C154	1		1000 pF ± 10 % 1000 pF ± 10 %		R114	1	NN05681610 NN05473610	680 Ω	± 5%	1/16 W
C134		DK96102300	1000 pr ± 10 %		R115	1	NNU5473610	47 k Ω	± 5%	1/16 W (C5
L151	1	FC9002003R	FERRITE CORE BLM21A05	арт 🕴	R118	1	NN05473610	47 k Ω	± 5 %	1/16 W
N/4 = 1										[C56
N151	1	MS5000043R	MICROPHONE UNIT WM-	BOAX	R117	1	NN05473610	47 k Ω	± 5%	1/16 W jC56
Q151	1	HC1011918R	IC MB88361PFV		R119	1	NN05473610	47 kΩ	± 5%	1/16 W
Q152	1	HZ2002521R	DIODE 1SS353	a state		·				[C568S/C56
Q153	1	HZ3075121R	DIODE DTZ7.5B	1984年1	R120	1	NN05473610	47 k Ω	± 5 %	1/16 W
										[C568/C56
R151	1	BW05102020	NETWORK RESISTOR 1 k		R121	1	NN05473610	47 k Ω	± 5%	1/16 W
R152	1	BW05102020	NETWORK RESISTOR 1 k	1	_					[C568/C56
R153	1	BW05102020	NETWORK RESISTOR 1 k		R122	1	NN05473810	47 kΩ :	± 5 %	1/18 W
R154	1	NN05102810	1kΩ ±5%6	1/16 W	R123	1	NN05103610	10 k Ω	± 5%	1/16 W
R155	1	NN05102610	1kΩ ±5%	1/16 W	R124	1	NN05473610	47 k Ω	± 5%	1/16 W
R156	1	NN05102610	1 kΩ ± 5%	1/16 W	R125	1	NN05223610	22 k Ω	± 5 %	1/16 W
R157	1	NN05104610	100 kΩ ± 5%	1/16 W	R127	1	NN05102610	1 k Ω	± 5 %	1/16 W
R158	1	NN05101810	100 Ω ± 5 %	1/16 W	R126	1	NN05102610	1 k Ω	± 5%.	1/16 W
R159 R160	1	NN05102610 NN05333610	1 kΩ ± 5% 33 kΩ ± 5%	1/16 W 1/16 W	R129 R130	1	NN05102610 BW05102020		±5% RESISTORI1k	1/16 W
niou	•	111055555010	55 K 32 ± 5 76	1/10 1	nisv	'	BW05102020	NEIWONKI	1231310111	52 MININI 4EU/
					R131	1	NN05103610	10 k Ω	± 5%	1/16 W
					R132	1	NN05103610	10 k Ω	± 5 %	1/16 W
			P206 LCD P.C.BOARD		R133	1	NN05103610	10 k Ω	± 5 %	1/18 W
					R134	1	NN05332610	3.3 k Ω	± 5%-	1/18 W
P206	1	WG266X2065	LCD P.C.BOARD	4	R135	1	NN05470610	47 Ω	± 5%	1/16 W
C101		DD95330300	33 pF ± 5 %	(00)	R136	1	NN05331810	330 Ω	± 5%	1/18 W
C102	1	DD95330300	33 pF ± 5% 33 pF ± 5%	(CG) (CG)	X101	1	FQ0419406R	CERAMIC VI	B 00404 404	100000
C102	1 -	DK96103200	•	(CG)		'	FQ0418400H	CERAMIC VI	B. CSAC4.19	NGC200
C103		DK96103200	0.01 μ F ± 10 % 0.022 μ F ± 10 %		W001		WEGGAY			
C104		DK96223200	$0.022 \ \mu F \pm 10\%$		W001	1	WE266X4000	FLEXIBLE P.	C.BUAND	
C105		DK96223200	$0.022 \ \mu F \pm 10\%$							
C108	1	DK96223200 DK96102300	$1000 \text{ pF} \pm 10\%$							
								P301 SPK/	MIC SOCKE	T P.C.BOAF
Q101	1	HU266XF10R	MICROPROCESSOR MB89	821	1					
Q102	1	HQ2150132R	DISPLAY UNIT	Į	P301	1	WG266X3050	SPK/MIC SO	CKET P.C.BO	ARD
Q103	1	HI1000130R	L.E.D PG1101F	4. S	1					
Q104	1	HI1000130R	L.E.D. PG1101F		C381	1	DK96102300	1000 pF	± 10 %	
Q105	1	HI1000286R	L.E.D. CL- 155UR/G-D-T		C382	1	DK96102300	1000 pF	± 10 %	
Q106	1	Hi1000286R	L.E.D. CL-155UR/G-D-T		C383	1 1	DK96102300	1000 pF	± 10 %	
Q107	1	HX423511AR	TRANSISTOR 2SD2351 (V,		C365	1	DK96102300	1000 pF	± 10 %	
Q108	1	HX423511AR	TRANSISTOR 2SD2351 (V,		C368	1	DK96102300	1000 pF	± 10 %	
Q109	1	HX423511AR	TRANSISTOR 2SD2351 (V,	'						
Q110	1	HX423511AR	TRANSISTOR 2SD2351 (V)	w)	J36 1	1	YJ01003670	SOCKET HS	J1466 - 01 - 01	10
Q111	1	HX423511AR	TRANSISTOR 2SD2351 (V,	wa I	Q361	1	HC2000921R	IC UMZ1		
Q112	1	HX423511AR	TRANSISTOR 2SD2351 (V)	· .		['				
Q113		BA1003621R	DIGITAL TRANSISTOR DT			'				
Q114	1	HX423511AR	TRANSISTOR 2SD2351 (V,	r i i i i i i i i i i i i i i i i i i i						
				·	1					
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ef. Esig.	QTY	PART NO.	DESC	RIPTION	l	REF. DESIG.	QTY	PART NO.	DESC	RIPTION	
			P301 8PK/MIC 80	OCKET P.C	.BOARD				P4 01 RF- VHF P.	C.BOARD	
R381	1	NN05153610	15 k Ω	±5%	1/16 W	C441	1	DK96102300	1000 pF	± 10 %	
382	1	NN05105610	1 M Ω	±5%	1/16 W	C442	1	DK96102300	1000 pF	± 10 %	
1383	1	NN0515561R	1.5 M Ω	±5%6	1/16 W	C443	1	DD95220300	22 pF	±5% ((CG)
384	1	NN05100610	10 Ω	±5%	1/16 W	C444	1	DD95270300	27 pF	±5% ((CG)
386	1	NN05100610	10 Ω	± 5 %	1/16 W	C446	1	DD95270300	27 pF	±5% ((CG)
1387	1	NN05104610	100 k Ω	±5%	1/16 W	C447	1	DK96102300	1000 pF	± 10 %	
1388	1	NN05103610	10 k Ω	± 5%	1/16 W	C448	1	DK96102300	1000 pF	± 10 %	
1389	1	NN05102610	1kΩ	± 5 %	1/16 W	C449	1	DD90020360	2 pF	± 0.25 pF (un
-						C450	1	DD95560300	56 pF	• •	(CG)
						C451	1	DD9001536R	1.5 pF	± 0.25 pF ((W)
			P302 ROTARY	P.C.BOA	RD	C452	1	DD90030360	3 pF	± 0.25 pF ((UJ)
						C453	1	DD95560300	56 pF	±5% (CG)
302	1	WG266X2075	ROTARY P.C.BO	ARD	1	C454	1	DD9001536R	1.5 pF	± 0.25 pF ((UJ)
						C455	1	DK96102300	1000 pF	± 10 % `	
386	1	DK96102300	1000 pF	± 10 %	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	C458	1	DD90030360	3 pF	± 0.25 pF ((UJ)
387	1	DK96102300	1000 pF	± 10 %		C457	1	DD95560300	56 pF		CG)
						C458	1	DK96102300	1000 pF	± 10 %	
5381	1	SR0102005R	ROTARY SWITCH	EC09P20	88	C459	1	DD95560300	56 pF		(CG)
						C460	1	DK96102300	1000 pF	± 10 %	()
						C461	1	DD95470300	47 pF	±5% ((CG)
			P401 RF-VHF	P.C.BOAI	RD	C462	1	DK96103200	0.01 μF	± 10 %	
						C463	1	DD91070300	7 pF		(CH)
401	1	WG266X3010	RF - VHF P.C.BO	ARD	1	C464	1	DK96102300	1000 pF	± 10 %	
-					s	C465		DK96103200	0.01 μF	± 10 %	
401	1	DK96102300	1000 pF	± 10 %		C466	1	DK96103200	0.01 μF	± 10 %	
402	1	DD95200300	20 pF	± 5%	(CG)	C467		DK96102300	1000 pF	± 10 %	
403	1	DD95360300	36 pF	± 5 %	(CG)	C468		DD95390300	39 pF		(CG)
403		DD95390300	39 pF	± 5%	(CG)	C469		DD91100300	39 pF 10 pF	± 3 76 (± 0.5 pF (
404		DK96102300	1000 pF	± 10 %		C408	1	DD95101300	100 pF		(CG)
×405	1	DK96471300	470 pF	± 10 %			'	5500101300	100 PT	<u> </u>	34 <i>)</i>
2400		DD95200300	20 pF	± 10 %	(CG)	C471	1	DK96102300	1000 pF	± 10 %	
2407	1	DK96102300	1000 pF	± 5 % ± 10 %		C472	1	DK96102300	1000 pF	± 10 %	
2408 2409	1	DK96102300	1000 pF	± 10 %		C472		DK58224200	0.22 μF R	⊥ IU 70	
2409 2410	1	DK96102300 DK96102300	1000 pF	± 10 % ± 10 %	· · · ·	C474 C475		DR58224200 DD95330300	0.22 μF R 33 pF	±5% (
	'	5180102300	1000 pi	- 10 70		C475		DK98102300	33 pF 1000 pF		(CG)
2411	1	DD9514030R	14 pF	±5%	(W)	C476		DK96102300	1000 pF	± 10 %	
2411 2413	1	DD9514030R DK96102300	14 pr 1000 pF	± 376 ± 10%		C477			•	± 10 %	
			•		(00)			DK56104200	0.1 μF	± 10 %	(a a)
2414	1	DD95220300	22 pF	± 5 %	(CG)	C479	1	DD95221300	220 pF		(CG)
C415	1	DK96102300	1000 pF	± 10 %		C480	1	DD95221300	220 pF	±5% ((CG)
2416	1	DK96102300	1000 pF	± 10 %	E den			DDorossi			
2417	1	DD90008360	0.8 pF	± 0.25 pF		C482	1	DD95221300	220 pF		(CG)
2418	1	DD90050300	5 pF	± 0.25 pF		C483	1	DK56104200	0.1 μF	± 10 %	
2419	1	DD95240300	24 pF	± 5%	(CG)	C484	1	DK96223200	0.022 μF	± 10 %	
420	1	DK96103200	0.01 μF	± 10 %	ł	C485	1	EY10502070	TANTALUM CAP.		
	1				I	C486	1	EY10502070	TANTALUM CAP.	1 μF/20 V	
2422	1	DK96102300	1000 pF	± 10 %	1	C467	1	DK58224200	0.22 μFR		
2423	1	DD95160300	18 pF	±5%	(CG)	C488	1	DK96103200	0.01 μF	± 10 %	
424	1	DK96102300	1000 pF	± 10 %		C489	1	EY10800850	TANTALUM CAP.	10 μ F/8.3 \	/
428	1	DD95220300	22 pF	± 5 %	(CG)						
427	1	DK96102300	1000 pF	± 10 %		C491	1	DK96223200	0.022 μF	± 10 %	
428	1	DK98102300	1000 pF	± 10 %		C492	1	DK96223200	0.022 μF	± 10 %	
429	1	DK98102300	1000 pF	± 10 %		C493	1	DK96473200	0.047 μF	± 10 %	
2430		EJ10701840	ELECT. CAP.	100 µF/1	ev	C494	1	DD95330300	33 pF		(CG)
	1					C495	1	DK98102300	1000 pF	± 10 %	(J U)
431	1	DK96102300	1000 pF	± 10 %		C498	1	DD95240300	24 pF		(CG)
432		DK96102300	1000 pF	± 10 %		C497					• •
	L .		•					DD95330300	33 pF		(CG)
2433		DK96102300		± 10 %		C498	1	DK96102300		± 10 %	
2434		EY10501610	TANTALUM CAP.		v i	C499	1	EY22600470	TANTALUM CAP.		
2435	1	DK96102300	1000 pF	± 10 %		C500	1	DK56104200	0.1 μF	± 10 %	
2436	1	DK96102300	1000 pF	± 10 %							
2437	1	DK96102300	1000 pF	± 10 %		1					
2438	1	DK96102300	1000 pF	± 10 %							
2 4 39	1	KC097X001R	TANTALUM CAP.	•	.3 V				the second		
:440	1	DK96102300	1000 pF	± 10 %		1					
			1 1 1			1	1 1				

ref. Desig.	Q'TY	PART NO.	DESCRIPTION	ref. Desig.	QTY	PART NO.	DESCRIPTION
		- 1 - 1	P401 RF- VHF P.C.BOARD				P401 RF- VHF P.C.BOARD
C501	1	DD95221300	220 pF ± 5 % (CG)	L401	1	ML0200505R	AIR COIL 2D5T0.5UEW
C502	1	DD95221300	220 pF ± 5 % (CG)	L402	1	ML0160353R	AIR COIL 1.6D7T0.35UEW
C504	1	DD95221300	220 pF ± 5 % (CG)	L403	1	LU15470010	INDUCTOR 47 nH NL252018T
C505	1	DK56104200	0.1 μF ± 10 %	L404	1	LU15680010	INDUCTOR 68 nH NL252018T
C508	1	DK96473200	0.047 μF ± 10 %	L405	1	FC9002003R	FERRITE CORE BLM21A05PT
C507	1	EY22600470	TANTALUM CAP. 22 µF/4 V	L408	1	ML0200506R	AIR COIL 2D6T0.5UEW
C508	1	DK96102300	1000 pF ± 10 %	L407	1	LU12102010	INDUCTOR 1 µH NL322522T
C509	1	DK96473200	0.047 μF ± 10 %	L408	1	LU15680010	INDUCTOR 68 nH NL252018T
C510	1	DK96103200	0.01 μF ± 10 %	L409	1	LA5501812R	ANTENNA COIL KE-08128 (150MHz)
				L410	1	LA5501813R	ANTENNA COIL KE-06127 (150MHz)
C511	1	DD95101300	100 pF ± 5 % (CG)	L411	1	LA5501813R	ANTENNA COIL KE-06127 (150MHz)
C512	1	DD95101300	100 pF ± 5 % (CG)	L412	1	LA5501813R	ANTENNA COIL KE-06127 (150MHz)
C513	1	DD95200300	20 pF ± 5 % (CG)	L413	1	LU1510201R	INDUCTOR 1 µH NL252018T
C514	1	CX11000040	TRIMM.RESISTOR 10 pF	L414	1	LU1510201R	INDUCTOR 1 µH NL252018T
C515	1	DK96102300	1000 pF ± 10 %	L415	1	LA5012602R	ANTENNA COIL 303LC- 1773BS
C518	1	KC097X001R	TANTALUM CAP. 4.7 μF/6.3 V	L416	1	LA5012602R	ANTENNA COIL 303LC- 1773BS
C517 C518	1	DD95101300 EY22600470	100 pF ± 5 % (CG) TANTALUM CAP. 22 μF/4 V	L417	1	KL102X002R	INDUCTOR 1 µH MLF2012A
C519	1	DK96102300	1000 pF ± 10 %	Q401	1	HZ20029050	DIODE 1SS314
C520	1	DK46224200	0.22 μF	Q402	1	HZ20029050	DIODE 1SS314
0504		DIFECCOLORS	0.00E	Q403		HZ2001721R	DIODE RLS135
C521	1	DK58224200		Q404 Q405	1	HZ2001721R	DIODE RLS135
C522	1	EY10601070	TANTALUM CAP. 10 μF/10 V		I 1	HZ20029050	DIODE 1SS314
C523 C524	1	DK56104200	0.1 μF ± 10 % TANTALUM CAP. 10 μF/6.3 V	Q406 Q407	1	BA2005821R	DIGITAL TRANSISTOR DTC114TE
C524		EY10600650 DK56473200		Q407		BA2005821R HZ20029050	DIGITAL TRANSISTOR DTC114TE
C525		KC097X001R	0.047 μF ± 10 % TANTALUM CAP. 4.7 μF/8.3 V	Q408		HX333561B0	DIODE 1SS314 TRANSISTOR 2SC3356 (R24)
C520		DK96102300	1000 pF \pm 10 %	Q410		HZ2002521R	DIODE 188353
C528		DK96473200	$0.047 \ \mu F \pm 10 \ \%$		'	TILLUVEJEIN	
C530		DK96102300	1000 pF $\pm 10\%$	Q411	1	HZ2002521R	DIODE 1SS353
				Q412		HZ2004601R	DIODE HSU88
C531	1	DD95470300	47 pF ± 5 % (CG)	Q413		HC10104010	IC PF0310A
C532	1	DK96102300	1000 pF ± 10 %	Q414		HZ2003305R	DIODE 1SS312
C533	1	EY22600470	TANTALUM CAP. 22 µF/4 V	Q415	1	HX342261A0	TRANSISTOR 2SC4226 (R24)
C534	1	EY10500670	TANTALUM CAP. 1 µF/6.3 V	Q416	1	HX214621AR	TRANSISTOR 2SB1462
C535	1	DD90060300	6 pF ± 0.25 pF (CH)	Q417		BA2005821R	DIGITAL TRANSISTOR DTC114TE
C536	1	DK96102300	1000 pF ± 10 %	Q418	1	BA10045210	DIGITAL TRANSISTOR UMA4
C537	1	DK96102300	1000 pF ± 10 %	Q419	1	HZ2000710R	DIODE EC15QSC02L
C538	1	EY22600470	TANTALUM CAP. 22 µF/4 V	Q420	1	HZ2000710R	DIODE EC15QSC02L
C539	1	DK56223300	0.022 μF ± 10 %	1			
C540	1	DK96102300	1000 pF ± 10 %	Q421		BA1000306R	DIGITAL TRANSISTOR HQ1A4A
			_	Q422		BA9000821R	DIGITAL TRANSISTOR UMW1
C541	1	DK96102300	1000 pF ± 10 %	Q423		BA9001221R	DIGITAL TRANSISTOR UMC5
C542	1	DK96102300	1000 pF ± 10 %	Q424		BA9001221R	DIGITAL TRANSISTOR UMC5
C543	1	DK96102300	1000 pF ± 10 %	Q425		HZ2003305R	DIODE 1SS312
C544		DK96102300	1000 pF ± 10 %	Q426		HZ2004801R	DIODE HVU350
C546		KC097X001R	TANTALUM CAP. 4.7 μF/6.3 V	Q427		HY203601AR	FET 2SK360 (1GD)
C547	1	DK96102300	1000 pF ± 10 %	Q428		HX346171BR	TRANSISTOR 2SC4617 (R)
C548	1	DD90050300	5 pF ± 0.25 pF (CH)	Q429		HZ2004801R	DIODE HVU350
C549 C550	1	DK96473200 DD95470300	0.047 μF ± 10 % 47 pF ± 5 % (CG)	Q430	1	HZ2004801R	DIODE HVU350
C552		EV10500870	TANTALUM CAP. 1 μF/6.3 V	Q431		HZ2004801R	
0332	1	EY10500870	1001ALUM CAF. 1 μF/0.3 V	Q432 Q433	1	BA2004321R HY203801AR	DIGITAL TRANSISTOR DTC144EE FET 2SK360 (1GD)
F401	1	XU721800NR	CRYSTAL 21.8MHz 21C2KN	Q434	1	HX346171BR	TRANSISTOR 2SC4617 (R)
F402	1	FG450304ER	CERAMIC FILTRE CFUM450E	Q435	1	HX342151AR	TRANSISTOR 2SC4215 (Y)
F403	1	FG455304E3	CERAMIC FILTER CFUM455E	Q436		HX346171BR	TRANSISTOR 2SC4617 (R)
				Q437	1	HC10352050	IC TA31136FN
J4 01	1	YJ0603017R	SOCKET 4PIN	Q438		HX346171BR	TRANSISTOR 2SC4617 (R)
J402 J403	1	YJ0603016R YJ04001630	SOCKET 18PIN SOCKET HEC2781 - 010520	Q439		BA2004321R	DIGITAL TRANSISTOR DTC144EE
94 03	'	100010000	GUNET HEU2/01-010320	Q440	1	HC10352050	IC TA31136FN
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			P401 RF- VH	F P.C.BOARD					P401 RF- VH	IF P.C.BOARD	
Q441	1	HX346171BR	TRANSISTOR	2SC4617 (R)		R441	1	NN05473610	47 k Ω	± 5%	1/16 W
Q442	1	HZ2002721R	DIODE DAN2	22		R442	1	NN05223610	22 k Ω	± 5 %	1/16 W
Q443	1	HX346171BR	TRANSISTOR	2SC4617 (R)		R443	1	NN05223610	22 k Ω	± 5%	1/16 W
Q444	1	BA9000721R	DIGITAL TRA	NSISTOR UM	X1	R444	1	NN05472610	4.7 k Ω	± 5%	1/16 W
Q445	1	HC10082180	IC MB1511PF	v	-	R445	1	NN05562610	5.6 k Ω	± 5%	1/16 W
Q446	1	HZ20018050	DIODE 1SS30	2	and the second	R446	1	NN05103610	10 k Ω	± 5%	1/16 W
Q447	1	HX214621AR	TRANSISTOR	2SB1462		R447	1	NN05332610	3,3 k Ω	± 5%	1/16 W
Q448	1	BA2004321R	DIGITAL TRA	NSISTOR DT	C144EE	R448	1	NN05472610	4.7 k Ω	± 5 %	1/16 W
Q449	1	HC409421Y0	IC BU4094BC	FV		R449	1	NN05102610	1kΩ	± 5 %	1/16 W
Q450	1	BA1004221R	DIGITAL TRA	NSISTOR UM	A8	R450	1	NN05472610	4.7 k Ω	± 5%	1/16 W
Q451	1	BA1004221R	DIGITAL TRA			R451	1	NN05472610	4.7 k Ω	± 5%	1/16 W
Q452	1	BA1004221R	DIGITAL TRA			R452	1	NN05102610	1kΩ ′	± 5%	1/16 W
Q453	1	BA1004221R	DIGITAL TRA		A8	R453	1	NN05101610	100 Ω	± 5%	1/16 W
Q454	1	HC409421Y0	IC BU4094BC			R454	1	NN05103610	10 k Ω	± 5%	1/16 W
Q455	1	BA10018210	DIGITAL TRA			R455	1	NN05472610	4.7 k Ω	±5%	1/16 W
Q456	1	BA2004321R	DIGITAL TRA			R456	1	NN05684610	680 k Ω	± 5%	1/16 W
Q457	1	BA1000306R	DIGITAL TRA			R457	1	NN05102610	1 k Ω	± 5%	1/16 W
Q458	1	BA9000621R	DIGITAL TRA			R458	1	NN05332610	3.3 k Ω	±5%	1/16 W
Q459	1	BA1004221R	DIGITAL TRA			R459	1	NN05101610	100 Ω	±5%	1/16 W
Q460	1	HX346171BR	TRANSISTOR	2SC4617 (R)		R460	1	NN05104610	100 k Ω	± 5 %	1/16 W
R401	1	NN05104610	100 k Ω	± 5%	1/16 W	R461	1	NN05153610	15 k Ω	± 5 %	1/16 W
R402	1	NN05104610	100 k Ω	± 5%	1/16 W	R462	1	NN05102610	1 k Ω	± 5%	1/16 W
R403	1	NN05101610	100 Ω	± 5%	1/16 W	R463	1	NN05682610	6.8 k Ω	± 5 %	1/16 W
R404	1	NN05103610	10 k Ω	± 5%	1/16 W	R464	1	NN05154610	150 k Ω	± 5%	1/16 W
R405	1	NN05103610	10 k Ω	± 5%	1/16 W	R465	1	NN05562610	5.6 k Ω	± 5%	1/16 W
R406	1	NN05100610	10 Ω	± 5%6	1/16 W	R466	1	NN05103610	10 k Ω	± 5%	1/16 W
R407	1	NN05470610	47 Ω	±5%6	1/16 W	R467	1	NN05220610	22 Ω	± 5 %	1/ 16 W
R408	1	NN05221610	220 Ω	± 5%6	1/16 W	R468	1	NN05103610	10 k Ω	± 5%	1/16 W
R409	1	NN05474610	470 k Ω	± 5 %	1/16 W	R470	1	NN05822810	8.2 k Ω	±5%	1/16 W
R410	1	NN05103610	10 k Ω	± 5%	1/16 W						
						R471	1	NY0504030R	TRIMM.RES	STÖR 500 k Ω	EVM1XS
R411	1	NN05104610	100 k Ω	± 5%	1/16 W	R472	1	NN05822610	8.2 k Ω	± 5%	1/1 6 W
R412	1	NN05104610	100 k Ω	± 5 %	1/16 W	R473	1	NY0504030R	TRIMM.RESI	STOR 500 k Ω	EVM1XS
R413	1	NN05104610	100 k Ω	± 5%	1/16 W	R474	1	NN05102610	1 k Ω	±5%	1/16 W
R414	1	NN05152610	1.5 k Ω	± 5%	1/16 W	R475	1	NN05103610	10 k Ω	± 5%	1/16 W
R415	1	NN05470610	47 Ω	± 5%	1/16 W	R476	1	NN05103610	10 k Ω	± 5%	1/16 W
R416	1	NN05103610	10 k Ω	± 5%6	1/16 W	R477	1	NN05103810	10 k Ω	± 5%	1/16 W
R417	1	NN05472610	4.7 k Ω	± 5%	1/16 W	R478	1	NN05474610	470 k Ω	± 5%	1/16 W
R418	1	NN05101610	100 Ω	± 5 %	1/16 W	R479	1	NN05224610	220 k Ω	± 5%	1/16 W
R419	1	NN05122610	1.2 k Ω	± 5%	1/16 W	R480	1	NN05221610	220 Ω	±5%6	1/16 W
R420	1	NN05122610	1.2 k Ω	± 5%)	1/16 W	- Bree					
-						R481	1	NN05103610	10 k Ω	± 5%	1/16 W
R421	1	NN05564610	560 k Ω	± 5%	1/16 W	R482	1	NN05222610	2.2 k Ω	± 5%	1/16 W
R422	1	NN05101610	100 Ω	± 5%	1/16 W	R483	1	NN05562610	5.6 k Ω	± 5%	1/16 W
R423	1	NN05103610	10 k Ω	± 5%	1/16 W	R484	1	NN05884610	680 k Q	± 5%	1/16 W
R424	1	NN05102610	1 k Ω	± 5%	1/16 W	R485	1	NN05391610	390 Ω	± 5%	1/16 W
R425	1	NN05101610	100 Ω	± 5 %	1/16 W	R486	1	NN05153610	15 k Ω	± 5%	1/16 W
R426	1	NN05222610	2.2 k Q	± 5 %	1/16 W	R487	1	NN05222610	2.2 k Ω	± 5%	1/16 W
R427	1	NN05472610	4.7 kΩ	± 5%	1/16 W	R488	1	NN05154610	150 k Ω	± 5%	1/16 W
R428	1	NN05822610	8.2 k Ω	± 5 %	1/16 W	R489	1	NN05562610	5.6 k Ω	± 5%	1/16 W
R429	1	NN05472610	4.7 kΩ	± 5 %	1/16 W	R490	1	NN05103810	10 k Ω	±5%	1/16 W
R430	1	NN05472610	4.7 k Ω	± 5%	1/16 W	R491	1	NN05220610	22 Q	± 5 %	1/16 W
R431	1	NN05000610	0 Ω	± 5 %	1/16 W	R492	1	NN05102610	1kQ	± 5%	1/16 W
R432	1	NN05472610	4.7 k Ω	± 5%	1/16 W	R493	1	NN05101610	100 Ω	± 5 %	1/16 W
R433	1	NN05101610	100 Ω	± 5%	1/16 W	R494	1	NN05682610	6.8 k Ω	± 5%	1/16 W
R434	1	NN05101610	100 Ω	± 5%	1/16 W	R495	1	NN05224610	220 k Ω	± 5%	1/16 W
R436	1	NN05472610	4.7 kΩ	± 5%5	1/16 W	R496	i	NN05474610	470 k Ω	± 5%	1/16 W
R437	1	NN0551261R	5.1 k Ω	± 5%	1/16 W	R497	1	NN05224610	220 k Ω	± 5%	1/16 W
R438	1	NY0503030R	TRIMM.RESIS			R498	1	NN05470610	47 Ω	± 5 %	1/16 W
R439		NN05472610	4.7 k Ω	± 5%	1/16 W	R499	1	NN05272610	2.7 kΩ	± 5 %	1/16 W
R440	1	NN05102610	1 k Ω	± 5%	1/16 W	R500	1	NN05684610	680 k Ω	± 5 %	1/16 W

ref. Desig.	QTY	PART NO.	DE	SCRIPTIO	N	REF. Desig.	QTY	PART NO.	DES	SCRIPTION
			P401 RF- VHF	P.C.BOARD	• _!				P401 RF- VHF	P.C.BOARD
R501	1	NN05102610	1kΩ ·	±5%	1/16 W	R561	1	NN05220610	22 Q 📷 📾	± 5 % 1/16 W
R502	1	NN05102610	1kΩ	± 5 %	1/16 W					
R503	1	NN05224610	220 k Ω	±5%	1/16 W	X401	1	JX2100129R	CRYSTAL 21.34	5MHz 38CHT
R504	1	NN05101610	100 Ω	± 5 %	1/16 W	X402	1	JX1100129R	CRYSTAL 11.75	MHz 38CHT
R505	1	NN05221610	220 Ω	± 5 %	1/16 W					
R506	1	NN05182610	1.8 k Ω	±5%6	1/16 W		[
R507	1	NN05471610	470 Ω	±5%6	1/16 W					
R508	1	NN05102610	1 k Ω	± 5%6	1/16 W			and the second second	P601 RF- UHI	F P.C.BOARD
R509	1	NN05392610	3.9 k Ω	± 5%	1/16W					
R510	1	NN05682610	6.8 k Ω	± 5%	1/16 W	P601	1	WQ266X3040	RF-UHF P.C.B	OARD
R511	1	NN05153610	15 k Ω	±5%	1/16 W	C601	1	KC233X0020	2.5 pF	(W)
R512	1	NN05100610	10 Ω	± 5 %	1/16 W	C602	1	DD91080300	8 pF	• •
R513	1	NN05101610	100 Ω	± 5 %	1/16 W	C603	1	DD90010360	1 pF	± 0.25 pF (UJ)
R514	1	NN05101610	100 Ω	± 5 %	1/16 W	C604	1	KC233X0020	2.5 pF	(UJ)
R515	1	NN05100610	10 Ω	± 5 %	1/16 W	C605	1	DD95470300	47 pF	± 5% (CG)
R516	1	NN05102610	1kΩ	± 5 %	1/16 W	C606	1	DD90010360	1 pF	± 0.25 pF (UJ)
R517	1	NN05222810	2.2 k Ω	± 5 %	1/16 W	C607	1	DD90060300	6 pF	± 0.25 pF (CH)
R518	1	NN05272610	2.7 k Ω	±5%6	1/16 W	C608	1	DD91070300	7 pF	± 0.5 pF (CH)
R519	1	NN05561610	560 Ω	± 5%	1/16 W					[C568/C56
R520	1	NN05102610	1 k Ω	±5%	1/ 16 W	C608	1	DD91080300	6 pF	± 0.5 pF (CH) [C56
						C609	1	DD91080300	8 pF	± 0.5 pF (CH)
R521	1	NN05101610	100 Ω	± 5%	1/16 W	C610	1	DK96102300	1000 pF	± 10 %
R522	1	NN05474610	470 k Ω	±5%6	1/16 W					
R523	1	NN05474610	470 k Ω	± 5%	1/16 W	C611	1	DD91100300	10 pF	±0.5 pF (CH)
R524	1	NN05474610	470 k Ω	±5%6	1/16 W	C613	1	DK96102300	1000 pF	± 10 %
R525	1	NN05000610	0Ω	± 5%	1/16 W	C615	1	DK96102300	1000 pF	± 10 %
R526	1	NN05474610	470 k Ω	±5%	1/16 W	C616	1	DD9001536R	1.5 pF	± 0.25 pF (UJ)
R527	1	NN05223610	22 k 🔉	± 5%	1/16 W	C617	1	KC233X0020	2.5 pF	(W)
R528	1	NN05562610	5.6 k Ω	±5%	1/16 W	C618	1	DD95101300	100 pF	±5% (CG)
R529 R530	1	NN05100610 NN05100610	10 Ω 10 Ω	±5% ±5%	1/16 W 1/16 W	C619 C620	1	DD90008360 DK96102300	0.8 pF 1000 pF	± 0.25 pF (UJ) ± 10 %
R531	1	NN05472610	4.7 kΩ	±5%	1/16 W	C621	1	DD91070300	7 pF	± 0.5 pF (CH)
R532	1	NN05223610	22 k Ω	± 5%	1/16 W	C621		DD91070300	7 pF	± 0.5 pF (CH) ± 0.5 pF (CH)
R533	· i	NN05473610	47 k Ω	± 5%	1/16 W	C623		DD90050300	5 pF	± 0.25 pF (CH)
R534	1	NN05103610	10 k Ω	± 5 %	1/16 W	C624	1	DD91100300	10 pF	± 0.5 pF (CH)
R535	1	NN05472610	4.7 kΩ	± 5 %	1/16 W	C626	1	DD90040300	4 pF	± 0.25 pF (CH)
R536	1	NN05102610	1 k Ω	± 5 %	1/16 W	C627	1	DK96471300	470 pF	± 10 %
R537	1	NN05153610	15 k Ω	± 5 %	1/16 W	C628	1	DD95101300	100 pF	± 5% (CG)
R538	1	NN05102610	1 k Ω	± 5 %	1/16 W	C629	1	DD95101300	100 pF	± 5 % (CG)
R539		NN05153610	15 k Ω	± 5%	1/16 W	C630	1	DD9001536R	1.5 pF	± 0.25 pF (UJ)
R540	1	NN05102610	1 k Ω	± 5 %	1/16 W					
DEA		NNOSATORIO	47 Ω	+ = W	1/10 \4	C631		DK96102300	1000 pF	± 10 %
R541	1	NN05470610		± 5%	1/16 W	C632	1	DD90030360	3 pF	± 0.25 pF (UJ)
R542 R543	1	NN05103610 NN05333610	10 k Ω 33 k Ω	± 5% + 5%	1/16 W	C633		DD95101300 DD95101300	100 pF	± 5 % (CG)
R544	1	NY02030220		± 5 %. TOB 20 k O I	1/16 W	C635		DD95101300 DK96102300	100 pF	±5% (CG)
R545	1	NY02030220 NY02030220	TRIMM.RESIS			C636 C637	1	DK96102300 DD90005360	1000 pF	± 10 %
R548	1	NT02030220 NN05103610	1 RIMM.RESIS	± 5 %	1/16 W			DD90005360 DD90020360	0.5 pF	± 0.25 pF (UJ)
R540	1	NY02030220				C638 C639		KC233X0010	2 pF	± 0.25 pF (UJ)
R548		NN0551261R	5.1 kQ	± 5%	1/16 W	039	!	NU233A0010	3 pF	(W)
R549	1	NN05103610	10 k Ω	± 5 %	1/16 W	C641	1	DD91080300	8 pF	± 0.5 pF (CH)
R550	i	NN05102610	1 kΩ	± 5%	1/16 W	C642	1	DD91060300	8 pF	± 0.5 pF (CH) ± 0.5 pF (CH)
	•				.,	C643	1	DD90020360	2 pF	± 0.25 pF (UJ)
R551	1	NN05102610	1kΩ	±5%	1/16 W	C844	i	DK96102300	1000 pF	± 10 %
R552	1	NI05102110	1kΩ	± 5%	1/10 W	C645		DD90010360	1 pF	± 0.25 pF (UJ)
R553	1	NN05391610	390 Ω	± 5%	1/16 W	C646		DD9525030R	25 pF	± 5% (CG)
R554	1	NN05472610	4.7 kΩ	± 5%	1/16 W	C647		KC233X0030	0,3 pF	±3% (CG) (UJ)
R555	1	NN05103610	10 k Ω	± 5%	1/16 W	C649		DD91100300	10 pF	(UJ) ± 0.5 pF (CH)
R556	1	NN05102610	1 k Ω	± 5%	1/16 W	C650		DD90050300	5 pF	± 0.25 pF (CH)
R557		NN05102610	1kΩ	± 5%	1/16 W		1.	2220000000	- P1	- 4.50 M (AU)
R558	· i	NN05684610	680 k Ω	± 5%	1/16 W					
R559	i	NN05471610	470 Ω	± 5%	1/16 W					
R560	1	NN05272610	2.7 k Ω	± 5%	1/16 W				-	
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ref. Desig.	QTY	PART NO.	DESC	RIPTION		REF. DESIG.	ατγ	PART NO.	DES	CRIPTION	
		ADE	P601 RF-UHF P.	C.BOARD				ADS	P601 RF-UHF P	.C.BOARD	
C651	1	DD95150300	15 pF	±5%	(CG)	C881	1	DD95220300	22 pF	±5% (CG)	
C652	1	DK96102300	1000 pF	± 10 %	(C862		DK96102300	1000 pF	± 10 %	
C654	1	DD9525030R	25 pF	± 5 %	(CG)	C863		DK96102300	1000 pF	± 10 %	
C655	1	DK96102300	1000 pF	± 10 %	(/	C864	l i	DD91070300	7 pF	± 0.5 pF (CH)	
C856		KC233X0030	0.3 pF	- 10 %	(UJ)	C865		DD9001536R	1.5 pF	• • •	
		DD90010360	•		• • •				•	± 0.25 pF (UJ)	
C657			1 pF	± 0.25 pF		C866	1	DD91070300	7 pF	± 0.5 pF (CH)	
C658	1	DD90005360	0.5 pF	± 0.25 pF		C867	1	DD95270300	27 pF	±5% (CG)	
C659	1	DD91100300	10 pF	± 0.5 pF		C868	1	DD90008360	0.8 pF	± 0.25 pF (UJ)	
C 6 60	1	DD91070300	7 pF	± 0.5 pF	(CH)	C870	1	EY22600470	TANTALUM CAP	2. 22 μF/4 V	
C661	1	DD91060300	6 pF	± 0.5 pF	(CH)	C871	1	EY22600470	TANTALUM CAP	22 #F/4 V	
C882	1	DK96102300	1000 pF	± 10 %		C872	1	DK96102300	1000 pF	± 10 %	
C666	1	DD90005360	0.5 pF	± 0.25 pF	ເພາ	C873	1	DD95101300	100 pF	± 5 % (CG)	
C667	1	DD90040300	4 pF	± 0.25 pF		C874	1	DK56224200	•	± 3 % (CG)	
C668		DK96102300	1000 pF	± 10 %		C875	1	EY10601070	0.22 μF	10	
C669		DD90040300	4 pF						TANTALUM CAP		
			•	± 0.25 pF		C876	1	DK56104200	0.1 μF	± 10 %	
C670	1	DD95220300	22 pF	±5%	(CG)	C877	1	DK96473200	0.047 μF	± 10 %	
		Blacks			1	C878	1	EY10600650	TANTALUM CAP		
C671	1	DK98102300	1000 pF	± 10 %		C879	1	DD95220300	22 pF	±5% (CG)	
C672	1	DD91080300	8 pF	± 0.5 pF	· · ·	C880	1	DK96102300	1000 pF	± 10 %	
C673	1	DD90050300	5 pF	± 0.25 pF	(CH)	1					
C674	1	DK96102300	1000 pF	± 10 %	· · · · ·	C881	1	KC097X001R	TANTALUM CAP	. 4.7 μF/6.3 V	
C675	1	DD90050300	5 pF	± 0.25 pF	(CH)	C884	1	DK96102300	1000 pF	± 10 %	
			•	•	[C568/C568S]	C885	1	DK98103200	0.01 μF	± 10 %	
C875	1	DD91060300	6 pF	+ 0.5 nE	(CH) [C588A]	C886	1	DK96102300	1000 pF	± 10 %	
C878	1	DK96102300	1000 pF	± 10 %		C887	1	DK96102300	1000 pF	± 10 %	
C877	1	DK96102300	1000 pF	± 10 %		C869	1	DD90020360	•		
C678	1	EY10500870	TANTALUM CAP.		,	1			2 pF	± 0.25 pF (UJ)	
C680	1	DD95220300	22 pF	± 5%	(CG)	C890	1	DD90020360	2 pF	± 0.25 pF (UJ)	
			•		. ,	C891	1	DK96102300	1000 pF	± 10 %	
C681	1	DK96102300	1000 pF	± 10 %		C892	1	DK56223300	0.022 μF	± 10 %	
C682	1	DK96102300	1000 pF	± 10 %		C894	1	DD90020360	2 pF	± 0.25 pF (UJ)	
C683	i	DK96102300	1000 pF	± 10 %	· · · · · · · · · · · · · · · · · · ·	C895			•		
	- 1		•					DK96102300	1000 pF	± 10 %	
C684	1	DK96102300	1000 pF	± 10 %		C896	1	DK96102300	1000 pF	± 10 %	
C685	1	DK96102300	1000 pF	± 10 %	14	C897	1	DD95180300	18 pF	±5% (CG)	
C686	1	DK96102300	1000 pF	± 10 %		C899	1	DD95101300	100 pF	±5% (CG)	
C687	1	KC097X001R	TANTALUM CAP.	•		C900	1	DD95330300	33 pF	±5% (CG)	
C688	1	DK96102300	1000 pF	± 10 %							
C689	1	DK96471300	470 pF	± 10 %		C904	1	DK98223200	0.022 μF	± 10 %	
C690	1	DK96102300	1000 pF	± 10 %		C905	1	DK98102300	1000 pF	± 10 %	
C891	1	DD95220300	22 pF	±5%5	(CG)	F601	1	XU723050NR	CRYSTAL 23.05	MHz 23C2KB	
C693	1	DD90005360	0.5 pF	± 0.25 pF	່ເພາ						
C694	1	DD91070300	7 pF	± 0.5 pF		J6 01	1	YP0602054R	PLUG 4PIN		
C696		DK96103200	0.01 μF	± 10 %	(J602	1				
C697	1 · 1					1		YP0602053R	PLUG 18PIN		
C698		DD91070300 DD90010360	7 pF 1 pF	± 0.5 pF ± 0.25 pF		J8 03	1	YJ1000401R	ANTENNA SOCK	EI (BNC)	
	'		· •	- 9.20 pr		L801	1	ML0200502R	AIR COIL 2D3T0	SUEW	
C850	1	DD95101300	100 pF	±5%	(CG)	L802	1 .	ML0200502R			
	· '	2203101300		- J 70					AIR COIL 2D4T0		
		DV00100000	1000 - 5	+ + * *		L603	1	ML0200502R	AIR COIL 2D3T0.		
C851	1	DK96102300	1000 pF	± 10 %		L604	1	LU24090010	INDUCTOR 8.8 n		
C852	1	DD90010360	1 pF	± 0.25 pF	· · ·	L605	1	LU0306001R	INDUCTOR 6 nH	NLS201206T	
C853	1	DD95180300	18 pF	± 5%	(CG)	L606	1	ML0200505R	AIR COIL 2.5D5T	0.5UEW	
C854	1	DK96102300	1000 pF	± 10 %	1. C	L607	1	ML0150302R	AIR COIL 1.5D3T	0.3UEW	
C855	1	DD90040300	4 pF	± 0.25 pF	(CH)	L608	1	ML0150302R	AIR COIL 1.5D3T		
C858	1	DD95270300	27 pF	± 5 %	(CG)	L609	1	LU24150010	INDUCTOR 15 nl		
C857		DD95470300	47 pF	± 5%	(CG)	L810		LA5015901R	ANTENNA COIL		
C858		DK96102300	1000 pF	± 10 %			1.1	21001000111			
C859		DK96102300	•		1	1					
			1000 pF	± 10 %		1					
2860	1	DD91090300	9 pF	± 0.5 pF	(CH)			4	na na serie de la companya de la com Esta de la companya de		
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ref. Desig.	QTY	PART NO.	DESCRIPTION	REF. DESIG.	άτγ	PART NO.	DESCRIPT	
			P801 RF- UHF P.C.BOARD			IRACE	P601 RF- UHF P.C.BO	ARD
L611	1	LA5015902R		Q841	1	HC1019520R	IC M67799MA-01	Set ato:
L612	1	LA5012905R	ANTENNA COIL KE-06964	Q642	1	BA10045210	DIGITAL TRANSISTOR	UMA4
L613	1	LA5012906R	ANTENNA COIL KE- 06983	Q643	1	HX115861B0	TRANSISTOR 2SA1586	(GR)
L614	1	LA5012905R	ANTENNA COIL KE- 06964	Q644	1	BA2005821R	DIGITAL TRANSISTOR	DTC114TE
L615	1	LU15220010	INDUCTOR 22 nH NL252018T	Q645	1	HX342601AR	TRANSISTOR 2SC4260	
L616	1	LU1510201R	INDUCTOR 1 µH NL252018T	Q646	1	HX342261A0	TRANSISTOR 2SC4226	(R24)
L617	1	ML0150502R	AIR COIL 1.5D3T0.5UEW	Q647	1	HZ4000801R	DIODE HVU359	• •
L618	1	LU15220010	INDUCTOR 22 nH NL252018T	Q648	1	HZ4000801R	DIODE HVU359	
L819	1	ML0190251R	AIR COIL 1.9D7T0.25UEW	Q649	1	HY203601AR	FET 2SK360 (1GD)	
L620	1	LU15820010	INDUCTOR 82 nH NL252018T	Q650	1	HX3457010R	TRANSISTOR 2SC4570	(T74)
L821	1	LU15820010	INDUCTOR 82 nH NL252018T	Q651	1	HY208821A0	FET 2SK882 (Y)	
L622	1	LU15820010	INDUCTOR 82 nH NL252018T	Q652	1	HZ2003305R	DIODE 1SS312	
L823	1	LU1510201R	INDUCTOR 1 #H NL252018T	Q653	1	HC10082180	IC MB1511PFV	
L824	1	FC9002003R	FERRITE CORE BLM21A05PT	Q854	1	HZ20018050	DIODE 1SS302	
L825	1	LU8056001R	INDUCTOR 56 nH LER012T	Q655		HX214621AR	TRANSISTOR 2SB1462	
L828	1	FC9002003R	FERRITE CORE BLM21A05PT	Q656	1	BA2004321R	DIGITAL TRANSISTOR	DTC144EE
L 82 7	1	LU0406803R	INDUCTOR 6.8 nH HK1608	Q857		BA2004321R	DIGITAL TRANSISTOR	
L628	1	LU0408203R	INDUCTOR 8.2 nH HK1608	Q658	1	BA2004321R	DIGITAL TRANSISTOR	DTC144EE
L629	1	LU0306001R	INDUCTOR 6 nH NLS201208T	Q659	1	HZ2003305R	DIODE 1SS312	
Q601	1	HZ20029050	DIODE 1SS314	Q660	1	HX342261A0	TRANSISTOR 2SC4228	(R24)
Q602		HZ20029050	DIODE 199314	R602	1	NN05101810	100 Ω ± 5	% 1/18 W
Q603	i	HZ20029050	DIODE 1SS314	Reo3		NN05104610	100 kΩ ± 5	
Q604	li	HZ20029050	DIODE 1SS314	R604		NN05103610	10 kΩ ±5	
Q605		HZ2002521R	DIODE 1SS353	Reos		NN05472610	$4.7 k\Omega \pm 5$	
Q606	1	HZ2005501R	DIODE HVU131	Rece		NN05102610	1kΩ ±5	-
Q607		BA2006221R	DIGITAL TRANSISTOR DTC114EE	R607	1	NN05101610	100 Ω · ±5	
Q608	i	HZ2002721R	DIODE DAN222	Rece	1	NN05222610	2.2 kΩ ±5	
Q609	i	HX340941B0	TRANSISTOR 2SC4094 (R37)	Rece	i	NN05332610	$3.3 k\Omega \pm 5$	
Q610	i	HZ20008210	DIODE DA204U		1.			
4010	ļ			R611	1	NN05472610	4.7 kΩ ±5	% 1/16 W
Q611	1	HX3508010R	TRANSISTOR 2SC5080 (ZD)	R612		NN05684610	680 kΩ ± 5	-
Q612	l i	HZ2002521R	DIODE 1SS353	R614		NN05100810	10 Ω ± 5	-
Q613	i	HZ2001721R	DIODE RLS135	R615		NN05222810	2.2 kΩ ±5	
Q614	1	HZ2001721R	DIODE RLS135	R616		NN05222810	2.2 kΩ ±5	•
Q815	1	HZ20029050	DIODE 1SS314	R617	1	NN05332610	3.3 kΩ ± 5	•
Q616	1	HZ20029050	DIODE 1SS314	R618	1	NN05470810	47 Ω ± 5	•
Q617	1	HZ20029050	DIODE 1SS314	R619		NN05103610	10 kΩ ± 5	•
Q618	1	HZ2003305R	DIODE 1SS312	R620	1	NN05472810	4.7 kΩ ±5	-
Q819	1	BA2005821R	DIGITAL TRANSISTOR DTC114TE					
Q620	1	HZ2002721R	DIODE DAN222	R621	1	NN05472610	4.7kΩ ±5	% 1/16 W
				R622	1	NN05472610	4.7 kΩ ± 5	•
Q621	1	HX3508010R	TRANSISTOR 2SC5080 (ZD)	R623		NN05223610	22 kΩ ±5	-
Q622	1	HX342281AR	TRANSISTOR 2SC4228 (R44)	R624		NN05103610	10 kΩ ±5	
Q623	1	HZ4001805R	DIODE 1SV270	R625		NN05104610	100 kΩ ± 5	
Q624	1	HX342261A0	TRANSISTOR 2SC4226 (R24)	R626		NN05101810	100 Ω ± 5	•
Q625	1	HZ4001805R	DIODE 1SV270	R627		NN05102610	1kΩ ±5	
Q626	1	HZ4001805R	DIODE 1SV270	R628		NN05472610	4.7 kΩ ±5	-
Q627	1	HX342261A0	TRANSISTOR 2SC4228 (R24)	R629		NN05101810	100 Ω ± 5	
Q628	1	HZ4001805R	DIODE 1SV270	R630		NN05122610	1.2 kΩ ±5	-
Q629	1	HZ4001805R	DIODE 1SV270					
Q630	1	HX3457010R	TRANSISTOR 2SC4570 (T74)	R631	1	NN05564610	560 kΩ ±5	% 1/16 W
				R632		NN05102610	1kΩ ±5	-
Q631	1	HX342151AR	TRANSISTOR 2SC4215 (Y)	R633		NN05101810	100 Ω ± 5	•
Q632	1	HZ20029050	DIODE 1SS314	R634	1	NN05223810	22 kΩ ± 5	-
Q633	1	HX342281AR	TRANSISTOR 2SC4228 (R44)	R635		NN05101610	100 Ω ± 5	
Q834	1	HZ2003305R	DIODE 1SS312	R636		NN05333810	33 kΩ ±5	
Q835	1	HZ20029050	DIODE 1SS314	R637		NN05103810	10 kΩ ±5	
Q838	1	HZ2005501R	DIODE HVU131	R638		NN05472610	4.7 kΩ ±5	
Q637	1	HZ2002521R	DIODE 188353	R639		NN05122610	1.2 kΩ ±5	-
Q638	1	HX33356010	TRANSISTOR 2SC3356 (R24)	R640		NN05472610	4.7 kΩ ± 5	
Q640	1	HZ2004601R	DIODE HSU88					
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	DESIG.	QTY	PART NO.		DESCRIPTION	N	DESIG.	QTY	PART NO.	D	ESCRIPTION	
				Deat DE					GRADE 2			
				P601 MP-	UHF P.C.BOARD					P601 HF- UF	IF P.C.BOARD	
	R641	1	NN05104610	100 k Ω	± 5 %	1/16 W	R851	1	NN05100810	10 Ω	± 5%	1/18 W
	R642	1	NN05103610	10 k Ω	± 5 %	1/16 W	R852	1	NN05223610	22 k Ω	± 5%	1/18 W
	R643	1	NN05221610	220 Ω	± 5 %	1/16 W	R853	1	NN05472610	4.7 kΩ	± 5%	1/18 W
	R644	1	NN05104610	100 k Ω	± 5 %	1/16 W	R854	1	NN05223610	22 k Ω	± 5 %	1/18 W
	R645	1	NN05104610	100 k Ω	± 5 %	1/16 W	R855	1	NN05473810	47 kΩ	± 5 %	1/18 W
	R646	1	NN05221810	220 Ω	± 5 %	1/16 W	R856	1	NN05562610	5.6 kΩ	± 5 %	1/18 W
	R647	1	NN05103610	10 k Ω	± 5 %	1/16 W	R857	1	NN05101810	100 Ω	± 5 %	1/18 W
	R648	1	NN05472610	4.7 kΩ	± 5 %	1/16 W	R858	1	NN05222610	2.2 k Ω	± 5%	1/16 W
	R649	1	NN05100810	10 Ω	± 5 %	1/16 W	R859	1	NN05821610	820 Ω	± 5 %	1/16 W
	R850	1	NN05472610	4.7 k Ω	± 5 %	1/16 W	R860	1	NN05102810	1 k Ω	± 5 %	1/18 W
	R651	1	NN05000810	0Ω	± 5%	1/16 W	R861	1	NN05101810	100 Q	±5%	1/16 W
	R652	1	NN05104810	100 k Ω	± 5%	1/16 W	R862	1	NN05474610	470 k Ω	± 5 %	1/16 W
	R653	1	NN05104810	100 k Ω	±5%	1/18 W	R863	1	NN05474810	470 k Ω	± 5 %	1/16 W
	R654	1	NN05104810	100 k Ω	± 5 %	1/18 W	R864	1	NN05104610	100 k Ω	± 5%	1/16 W
	R855	1	NN05223810	22 k Ω	± 5%	1/16 W	R865	1	NN05474610	470 k Ω	± 5%	1/16 W
	R656	1	NN05103810	10 k Ω	± 5 %	1/18 W	R866	1	NN05100610	10 Ω	± 5 %	1/18 W
	R657	1	NN05331810	330 Ω	± 5 %	1/16 W	R867	1	NN05101810	100 Ω	± 5%	1/16 W
	R658	1	NN05102610	1kΩ	± 5 %	1/18 W	R868	1	NN05474610	470 k Ω	± 5 %	1/16 W
	R659	1	NN05471610	470 Ω	± 5 %	1/16 W	R869	1	NN05102610	1kΩ	± 5%	1/16 W
	R660	1	NN05152610	1.5 k Ω	± 5%	1/16 W	R870	1	NN05821810	820 Ω	± 5%	1/16 W
	R66 1	1	NN05272610	2.7 k Ω	± 5%	1/16 W	R871	1	NN05822810	8.2 k Ω	± 5 %	1/16 W
	R662	1	NN05222610	2.2 k Ω	± 5%	1/16 W	R872		NN05102810	1 k Ω	± 5%	1/16 W
	R664	1	NN05223610	22 k Ω	± 5 %	1/18 W	R873	1	NN05223810	22 k Ω	± 5 %	1/16 W
	R665	1	NN05102610	1kΩ	± 5%	1/18 W	R874	1	NN05000810	0Ω	± 5 %	1/18 W
	R666	1	NN05101610	100 Ω	± 5%	1/18 W	R875	1	NN05100810	10 Ω	± 5 %	1/16 W
	R667	11	NN05472610	4.7 k Ω	± 5%	1/16 W	R876	1	NN05100810	10 Ω	± 5 %	1/18 W
	R668	1	NN05101610	100 Ω	± 5 %	1/16 W	R877	1	NN05473810	47 k Ω	± 5 %	1/18 W
	R669	1	NN05222610	2.2 k Ω	± 5 %	1/16 W	R878	1	NN05000810	0Ω	± 5 %	1/18 W
	R670	1	NN05103610	10 k Ω	± 5 %	1/18 W	R879	1	NN05472810	4.7 kΩ	± 5 %	1/18 W
							R880	1	NN05100610	10 Ω	, ± 5 %	1/18 W
	R671 R672		NN05102610 NN05560610	1 kΩ 56 Ω	± 5% ± 5%	1/16 W 1/16 W					· .	
	R673		NN05682610	6.8 k Ω		a 14 a 14						
	R674		NN05472610	4.7 kΩ	± 5% ± 5%	1/18 W 1/18 W					VCO P.C.BOA	
	R675		NN05473610	4.7 kΩ	± 5 %	1/16 W				P/UI VHF-	VCU P.C.BUA	
	R676		NN05223610	47 k Ω 22 k Ω	± 5 %		P701		WG266X3020	VHF - VCO P		
	R677		NN05223810			1/16 W	P 701	1	WG200A3020	VHF- VCO P	.C.BOARD	
	R678		NN05222810	22 kΩ 2 2 kΩ	± 5 %	1/16 W	0701		DKoetoggog	1000 - 5	+ 10 %	
				2.2 kΩ	± 5 %	1/16 W	C721	1	DK96102300	1000 pF	± 10 %	(01)
	R679		NN05102610	1 kΩ	± 5% + 5%	1/16 W	C722		DD90050300	5 pF	± 0.25 pF	
1	R680	1	NN05022610	2.2 Ω	± 5 %	1/16 W	C723		DD9001536R	1.5 pF	± 0.25 pF	(UJ)
	R681	<u> </u>	NNOFATOAAA	4760	+ • N	1/10 14	C724		DK96102300	1000 pF	± 10 %	
	-	11	NN05472610	4.7 kΩ	± 5 %	1/16 W	C725		DD90008360	0.8 pF	± 0.25 pF	
	R682	11	NN05102610	1 k Ω	± 5%	1/16 W	C728		DD91100360	10 pF	± 0.5 pF	
	R683	11	NN05331610	330 Ω	± 5%	1/16 W	C727		DD9514030R	14 pF	± 5%	(CH)
	R684	1	NN05151610	150 Ω	± 5%	1/16 W	C728		DD95200300	20 pF	± 5%	(CG)
	R685	1	NN05224610	220 k Ω	± 5 %	1/16 W	C729	1	DK96102300	1000 pF	± 10 %	
	R686	1	NN05101610	100 Ω	± 5%	1/16 W	C730	1	DK96471300	470 pF	± 10 %	
	R687		NN05392610	3.9 kΩ	± 5 %	1/16 W						
	R688	1	NN05223610	22 k Q	± 5 %	1/16 W	C731	1	DK96102300	1000 pF	± 10 %	
.	R689	1	NN05391610	390 Ω	± 5%	1/18 W	C732	1	DD90010360	1 pF	± 0.25 pF	
1	R690	1	NN05562610	5.6 k Ω	± 5%	1/18 W	C733	1	DD90005360	0.5 pF	± 0.25 pF	• •
ľ	R691	1	NN05472610	4.7 k Ω	± 5 %	1/18 W	C734 C735	1	DD90040360 DK96102300	4 pF 1000 pF	± 0.25 pF ± 10 %	(UJ)
	R692		NN05222610	4.7 K M 2.2 k Ω	± 5 %	1/16 W	C735		DD90050360	1000 pr 5 pF		41 0
1	R693		NN05104610	2.2 κ 52 100 k Ω	± 5%	1/16 W	C736		DD90050380 DD90020300	•	± 0.25 pF	•
	R694		NN05000610	0 Ω	± 5 %	1/16 W	C737		DK96102300	2 pF	± 0.25 pF	(03)
	R695		NN05103610	0Ω 10kΩ						1000 pF	± 10 %	(00)
	R696				± 5 %	1/16 W	C740	1	DD95221300	220 pF	± 5 %	(CG)
<u> </u>			NN05470610	47 Ω 100 Ω	± 5 %	1/18 W			DKORAAAAAA	1000 - 5		
	R697	11	NN05101610	100 Ω 33 k O	± 5%	1/16 W	C741	11	DK96102300	1000 pF	± 10 %	
	R698 R699	1 1	NN05333610 NN05103610	33 kΩ 10 kΩ	± 5 % ± 5 %	1/16 W 1/16 W						
	R850	1	NN05000610	0 Ω	± 5 %	1/18 W		1				
		1 1										

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DESIG.	QTY	PART NO.	DESCRIPTION	REF. DESIG.	QTY	PART NO.	DESCRIPTION
			P701 VHF- VCO P.C.BOARD			08: SL	P702 UHF- VCO P.C.BOARD
L722	1	KL102X002R	INDUCTOR 1 HH MLF2012A	C761	1	DD90050300	5 pF ± 0.25 pF (CH)
L723	1	ML0100302R	AIR COIL 1D4T0.3UEW	C762	1	DK96102300	1000 pF ± 10 %
L724	1	LU8022001R	INDUCTOR 0.22 µH LER012T	C763	1	DD90005360	0.5 pF ± 0.25 pF (UJ)
L725	1	LU03222010	INDUCTOR 2.2 µH MLF2012A	C764	1	DD90008360	0.8 pF ± 0.25 pF (UU)
L726	1	ML0200308R	AIR COIL 2D6T0.3UEW	C765	1	DK96102300	1000 pF ± 10 %
L727	1	KL102X002R	INDUCTOR 1 µH MLF2012A	C766	1	DD91060360	6 pF ± 0.5 pF (CH)
L728	1	LU03220020	INDUCTOR 0.22 HH MLF2012D	C767	1	DD90005360	0.5 pF ± 0.25 pF (UJ)
L729	1	LU0321001R	INDUCTOR 21 nH NLS201208T	C768	1	DD95101360	100 pF ± 5 % (UJ)
				C769		DD95221300	220 pF $\pm 5\%$ (CG)
Q721	1	HX3457010R	TRANSISTOR 2SC4570 (T74)	C770	1	DD90050360	5 pF ± 0.25 pF (UJ)
Q722	1	HX342261A0	TRANSISTOR 2SC4228 (R24)				
Q723	1	HX342261A0	TRANSISTOR 2SC4226 (R24)	C771	1	DK96102300	1000 pF ± 10 %
Q724	1	HZ4000901R	DIODE HVU350	C772	1	DK96102300	$1000 \mathrm{pF}$ $\pm 10\%$
Q725	1	HZ4000901R	DIODE HVU350	C773	1	DD95101300	100pF $\pm 5\%$ (CG)
Q726		HX3424500R	TRANSISTOR 2SC4245	C774	1	DD90020360	2pF $\pm 0.25 \text{pF}$ (UJ)
Q727	1	HY202171AR	FET 2SK217 (ZD)		\ ·	000020300	z pr ± 0.20 pr (00)
Q728	1	HZ4001305R	DIODE 1SV215	L751	1	LU0306001R	INDUCTOR 6 nH NLS201208T
Q729	1	HZ4001305R	DIODE 15V215	L752		KL102X002R	INDUCTOR 1 µH MLF2012081
Q730		HZ4001305R					•
U130	l ' .	n240010050	DIODE 1SV214	L753	1	ML0150302R	AIR COIL 1.5D3T0.3UEW
0704		UZIONIANED		L754	1	LU1510201R	INDUCTOR 1 µH NL252018T
Q731		HZ4001305R	DIODE 1SV215	L755	1	ML0140451R	AIR COIL 1.4D4T0.45UEW
Q732	1	HZ20029050	DIODE 1SS314	L756	1	LU8015001R	INDUCTOR 15 nH LER012T
Q733	1	HX342261A0	TRANSISTOR 2SC4226 (R24)	L757	1	KL102X002R	INDUCTOR 1 µH MLF2012A
Q734	1	HZ2003305R	DIODE 1SS312	L758	1	ML0150304R	AIR COIL 1.5D7T0.3UEW
				L759	1	LU1510201R	INDUCTOR 1 µH NL252018T
R721	1	NN05103610	10 kΩ ± 5 % 1/16 W	L760	1	KL102X002R	INDUCTOR 1 µH MLF2012A
R722	1	NN05221610	220 Ω ± 5 % 1/16 W				
R723	1	NN05224610	220 k Ω ± 5 % 1/16 W	Q751	1	HX342281AR	TRANSISTOR 2SC4228 (R44)
R724	1	NN05474610	470 k Ω ± 5 % 1/16 W	Q752	1	HY205081A0	FET 2SK508 (K52)
R725	1	NN05331610	330 Ω ± 5 % 1/16 W	Q753	1	HX342261A0	TRANSISTOR 2SC4226 (R24)
R726	1	NN05392610	3.9 k Ω ± 5 % 1/16 W	Q754	1	HZ4001905R	DIODE 1SV257
R727	1	NN05562610	5.6 k Ω ± 5 % 1/16 W	Q755	1	HZ4001905R	DIODE 1SV257
R728	1	NN05101810	100 Ω ± 5 % 1/16 W	Q756	1	HZ4001905R	DIODE 1SV257
R729	1	NN05472610	4.7 kΩ ± 5 % 1/16 W	Q757	1	HZ2005302R	DIODE MA795WK
R730	1	NN05474610	470 kΩ ± 5% 1/16 W	Q758	1	HX342261A0	TRANSISTOR 2SC4226 (R24)
		Į į		Q759	1	HY205081C0	FET 2SK508(K51)
R731	1	NI05331110	330 Ω ± 5% 1/10 W	Q760	1	HZ40010050	DIODE 1SV214
R732	1	NN05103610	10 kΩ ± 5 % 1/16 ₩		(I		
R733	1	NN05472610	4.7 kΩ ± 5 % 1/16 ₩ .4⊮	Q761	1	HZ40009050	DIODE 1SV229
R734	1	NN05221610	220 Ω ± 5 % 1/16 ₩ ∰	Q762	1	HZ4001805R	DIODE 1SV270
R735	1	NN05470810	47Ω ± 5% 1/16 ₩ #				
R736	1	NN05221810	220 Ω ± 5 % 1/16 ₩ 🐲	R751	1	NN05151610	150 Ω ± 5 % 1/16 W
R737	1	NN05103610	10 kΩ ± 5 % 1/16 ₩ 🖝		1	NN05103810	$10 k \Omega$ $\pm 5 \%$ $1/16 W$
R739	1	NN05472610	4.7 kΩ ± 5% 1/16 ₩ ¥	R753	1	NN05472610	4.7 k Ω ± 5 % 1/16 W
R740	1	NN05103610	$10 k\Omega$ $\pm 5\%$ $1/16 W$	R754	1	NN05151610	150Ω $\pm 5\%$ 1/16 W
				R755	1	NN05473610	$\frac{130 \Omega}{47 k \Omega}$ $\pm 5\%$ 1/16 W
R741	1	NN05222810	2.2 kΩ ± 5% 1/16₩ ≱			NN05103610	-
R742	i	NN05104610	100 kΩ ± 5% 1/16 ₩ ¥	R757		NP05103610	
R743		NN05102610					
	']	11103102010	1kΩ ±5% 1/16₩ ¥F ≆		1	NN05472610	4.7 kΩ ± 5 % 1/16 W
				R759	1	NN05100610	10 Ω ± 5 % 1/16 W
		· ·	کون محمد در د				
					1	NN05151610	150 Ω ± 5 % 1/18 W
		· · ·	P702 UHF-VCO P.C.BOARD	R762		NN05103610	10 k Ω ± 5 % 1/16 W
				R763	1	NN05472610	4.7 kΩ ± 5 % 1/16 W
P702	1	WG266X3060	UHF-VCO P.C.BOARD	R764	1	NN05151610	150 Ω ± 5 % 1/16 W
				R765	1	NN05103610	10 kΩ ± 5 % 1/16 W
C752	1	DK98102300	1000 pF ± 10 %	R768	1	NN05100610	10Ω ±5% 1/18W
C753	1	DD90010360	1 pF ± 0.25 pF (UJ)	R767	1	NN05103610	10 kΩ ± 5 % 1/16 W
C754	1	KC233X0030	0.3 pF (UJ)	R768	1	NN05472610	4.7 kΩ ± 5 % 1/18 W
C755	1	DD90030360	3 pF ± 0.25 pF (UJ)	R770	1	NN05221610	220 Ω ± 5 % 1/16 W
C758	1	DD90040360	4 pF ± 0.25 pF (UJ)			_	
C757	1	DD90008360	0.8 pF ± 0.25 pF (UJ)	R771	1	NN05223610	22 kΩ ± 5 % 1/16 W
C758	1	DD95470360	47 pF ± 5% (CG)				
	1	DK96102300	1000 pF ± 10 %		1		
C759 I		1	1000 pF ± 10 %				
C759 C760	1	DK80105300 1					
C759 C760	1	DK96102300					

ref. Desig.	QTY	PART NO.	DES	CRIPTION		REF. Desig.	Q'TY	PART NO.	DES	CRIPTIO	N
			P703 UHF - SU	B P.C.BO	ARD				P801 UHF- REG	P.C.BOAF	RD .
P703	1	WG288X3070	UHF-SUB P.C.B	OARD		C811	1	KC233X0020	2.5 pF		(UJ)
						C812	1	DK98102300	1000 pF	± 10 %	
C781	1	DD90060300	6 pF	± 0.25 pF	(CH)	C813	1	DD90010360	1 pF	± 0.25 p	F (UJ)
C782	1	DD95120300	12 pF	±5%	(CG)	C814	1	DK96102300	1000 pF	± 10 %	
C783	1	DK98102300	1000 pF	± 10 %		C815	1	DK96102300	1000 pF	± 10 %	
C784	1	DD95220300	22 pF	± 5 %	(CG)	C816	1	EY10500870	TANTALUM CAP	P. 1 μ F/6 .3	V
C785	1	DK96102300	1000 pF	± 10 %	-	C817	1	EY22600470	TANTALUM CAP	. 22 μF/4	v
C786	1	KC233X0010	3 pF		(W)	C818	1	KC097X001R	TANTALUM CAP	. 4.7 μF/8	.3 V
C787	1	DD9514030R	14 pF	± 5 %	(CH)	C819	1	DK96102300	1000 pF	± 10 %	
C768	1	DD95130300	13 pF	± 5 %	(CG)	C820	1	DK96102300	1000 pF	± 10 %	
C789	1	DD95220300	22 pF	±5%	(CG)	C821	1	DK96102300	1000 pE	± 10 %	
C791	1	DD90010360	1 pF	± 0.25 pF	- ALD	021	•	DK96102300	1000 pF	± 10 %	
C792	1	DK96102300	1000 pF	± 10 %	(00)	Q801	1	HX342281AR	TRANSICTOR	C 4000 /B	
0192	1	DK90102300	looo pe	± 10 %		Q802			TRANSISTOR 2	•	
L781	1	LU0306001R	INDUCTOR 6 nH	NICONTOC	I	Q802	1	HX342261A0 HX342601AR	TRANSISTOR 2 TRANSISTOR 2	•	6 ~ 4)
L/01	'	LOUGUOUTH		1103201201		Q803		BA1000306R	DIGITAL TRANS		1.4.4.4
Q781	1	HX342261A0	TRANSISTOR 25	C4228 /Do	. I	Q805	1	BA9000821R			
Q781	1	HX3457010R	TRANSISTOR 28	•	"	Q805	1	BA9000821R BA1005821R	DIGITAL TRANS		
w/02		11/3401010	10411010 TUN 23			Q807	1	BA1005821R BA20060210	DIGITAL TRANS		
D 704	1	NN05472610	4.7 k Ω	±5%	1/16 W	Q808	1	BA20060210 BA1004721R	DIGITAL TRANS		
R781 R782	1	NN05472610 NN05103610	4.7 κ Ω 10 k Ω	± 5%5 ± 5%5	1/16 W	Q808	1	BA1004721R BA1000306R			
R782	1	NN05103610 NN05472610	10 κΩ 4.7 kΩ	± 5%5	1/16 W	0180	1	DATU00306R	DIGITAL TRANS	IS I OK HQ	1/148
R764	1	NN05472610 NN05221610	4.7 K Ω 220 Ω	± 5%5 ± 5%6	1/16 W	Q811	1	BA9000821R		ISTOD	
R785	1	NN05221810 NN05333610	220Ω 33 kΩ	± 5 %	1/16 W	Q612	1	BA9000821R BA1004221R	DIGITAL TRANS		
R785	1	NN05333610 NN05472610	33 κΩ 4.7 kΩ	± 5 %	1/16 W	Q812 Q813	1	BA1004221R BA1004221R			
R765	1	NN05472610 NN05103610	4.7 K Ω 10 k Ω	± 5 %	1/16 W	Q813 Q614	1	BA1004221R BA1005721R	DIGITAL TRANS		
	-					Q814 Q815			DIGITAL TRANS		
R788	1	NN05821610	820 Ω	±5%	1/16 W		1	BA1004221R	DIGITAL TRANS		
						Q816		BA1004221R	DIGITAL TRANS		
						Q817	1	BA1004221R	DIGITAL TRANS	-	A8
						Q818	1	HC409421Y0	IC BU4094BCFV		
			P704 MEMORY	r P.C.BOA	RD	Q819 Q820	1	HC409421Y0 BA2004321R	IC BU4094BCFV DIGITAL TRANS		2144FF
P704	1	WZ153X0010	MEMORY P.C.B	DARD							
					· · ·	R801	1	NN05472810	4.7 k Ω	± 5%	1/16 W
Q701	1	HC1000670R	IC AT24C04 - 10	SC-2.7		R802	1	NN05823610	82 k Ω	±5%	1/18 W
					1. A.	R803	1	NN05000610	0 Ω	±5%	1/18 W
R701	1	NN05473610	47 k Ω	± 5%	1/16 W	R804	1	NN05470610	47 Ω	±5%	1/16 W
R702	1	NN05473610	47 kΩ	±5%	1/16 W	R805	1	NN05331610	330 Ω	± 5%	1/16 W
R703	1	NN05473610	47 kΩ	±5%	1/16 W	R806	1	NN05474610	470 k Ω	± 5%	1/16 W
						R807	1	NN05000610	0Ω	± 5%	1/16 W
		and the second				R808	1	NN05221610	220 Q	± 5%	1/16 W
			_			R809	1	NN05154610	150 k Q	±5%	1/16W
		· · · ·	P801 UHF-RE	G P.C.BO	ARD	R810	1	NN05472610	4.7 k Ω	± 5 %	1/16 W
P801	1	WG268X3080	UHF-REG P.C.E	OARD		R811	1	NN05562610	5.6 k Q	± 5%	1/16 W
					1	R812	1	NN05103610	10 k Q	± 5 %	1/16 W
C801	1	DD90020360	2 pF	± 0.25 pf	·(UU)	R813	1	NN05332610	3.3 k Ω	± 5 %	1/16 W
C802	1	DD90040300	4 pF	± 0.25 pF	• •	R814	1	NN05472610	4.7 kΩ	± 5%	1/16 W
C803	1	DD90060300	6 pF	± 0.25 pF	· /	R815	1	NN05472610	4.7 k Ω	± 5%	1/16 W
C804	1	DK96102300	1000 pF	± 10 %	. ,	R816	1	NN05472610	4.7 kΩ	± 5%	1/16 W
C806	1	DD90050300	5 pF	± 0.25 pF	(CH)	R817		NN05102610	1 kQ	± 5%	1/16 W
C807	1	KC233X0020	2.5 pF		(U)	R818		NN05102610	1kΩ sta	± 5%	1/16 W
C808	1	DD90060300	6 pF	± 0.25 pł			'			- • •	1/10 11
C809	1	DD90050300	5 pF	± 0.25 pF					ст. "		
C810	1	DD90020360	2 pF	± 0.25 pF							
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ref. Desig.	OTY	PART NO.	D	ESCRIPTION	
_			P901 VHF-	SUB P.C.BOA	RD
P901	1	WG266X3030	VHF- SUB P.	C.BOARD	
C951	1	DD90050300	5 pF	± 0.25 pF	• •
C951	1	DD90040300	4 pF	± 0.25 pF	[C568/C568S] (CH) [C568A]
C952	1	DK96102300	1000 pF	± 10 %	
C953	1	DD91070300	7 pF	± 0.5 pF	• •
C953	1	DD91060300	6 pF	+ 0.5 pE	[C566/C568S] (CH) [C568A]
C954	1	DD95120300	12 pF	± 5%	
C955	1	DD91070300	7 pF		
C958	1	DD90010360	1 pF	± 0.5 pF ± 0.25 pF	(W)
C957	1	DK98102300	1000 pF	± 10 %	
C958	1	DD91080300	8 pF	± 0.5 pF	
C959 C960	1 1	DD95150300 KC233X0030	15 pF 0.3 pF	±5%6	(CG) (W)
0900	•	RC233A0030	0.3 pr		(00)
C963	1	DK96102300	1000 pF	± 10 %	
C984	1	DD91060300	6 pF	± 0.5 pF	(CH)
C985	1	DD9514030R	14 pF	± 5%	(CH)
C966	1	DD95220300	22 pF	± 5 %	(CG)
C967	1	DK98102300	1000 pF	± 10 %	41 0
C969 C970	1	KC233X0010 DD95120300	3 pF 12 pF	± 5%	(W) (CG)
0070	•	0000120300	iz pi	÷ 7 /6	
C971	1	DD95120300	12 pF	± 5 %	(CG)
C972	1	DD95150300	15 pF	± 5%	(CG)
C973	1	DD9001536R	1.5 pF	± 0.25 pF	
C978	1	DD90020360	2 pF	± 0.25 pF	(W)
L951 L952	1	LU0306001R LU0306001R		nH NLS201208 nH NLS201208	
79 3 2	•	LUUSUBUUIN	INDUCTOR 6	IN NL3201200	1
Q951	1	HZ2003305R	DIODE 1SS31	12	
Q952	1	HX342261A0		2SC4226 (R24	•
Q953	1	HX3457010R		2SC4570 (T74) .
Q954 Q955	1	HZ2003305R HX342281A0	DIODE 18831	2 2804228 (R24	,
Q956	1	HX3457010R		23C4220 (H24 2SC4570 (T74	
Q957	1	HZ2003305R	DIODE 18831	•	,
R952	1	NN05103810	10 k Ω	± 5%	1/18 W
R953	1	NN05221810	220 Ω	± 5%	1/16 W
R954	1	NN05103610	10 k Ω	± 5 %	1/16 W
R955	1	NN05472610	4.7 k Ω	± 5 %	1/16 W
R956	1	NN05333810	33 k Ω	± 5%	1/16 W
R957 R958	1	NN05103610 NN05103610	10 k Ω 10 k Ω	± 5% ± 5%	1/16 W
R959	1	NN05103810	10 k Ω	± 5 %	1/16 W 1/16 W
R960	1	NN05103810	10 k Ω	± 5%	1/16 W
BOCA					
R961 R082	1	NN05221610 NN05103610	220 Ω 10 k Ω	± 5%	1/16 W
R962 R963	1	NN05103810 NN05472810	10 k Ω 4.7 k Ω	± 5% ± 5%	1/16 W 3
R964	1	NN05333810	4.7 K 52 33 k Ω	± 5 %	1/16 W
R965	1	NN05103610	10 k Ω	± 5%	1/16 W
R966	1	NN05103610	10 k Ω	± 5%	1/18 W
R9 67	1	NN05000810	0Ω	±5%	1/16 W
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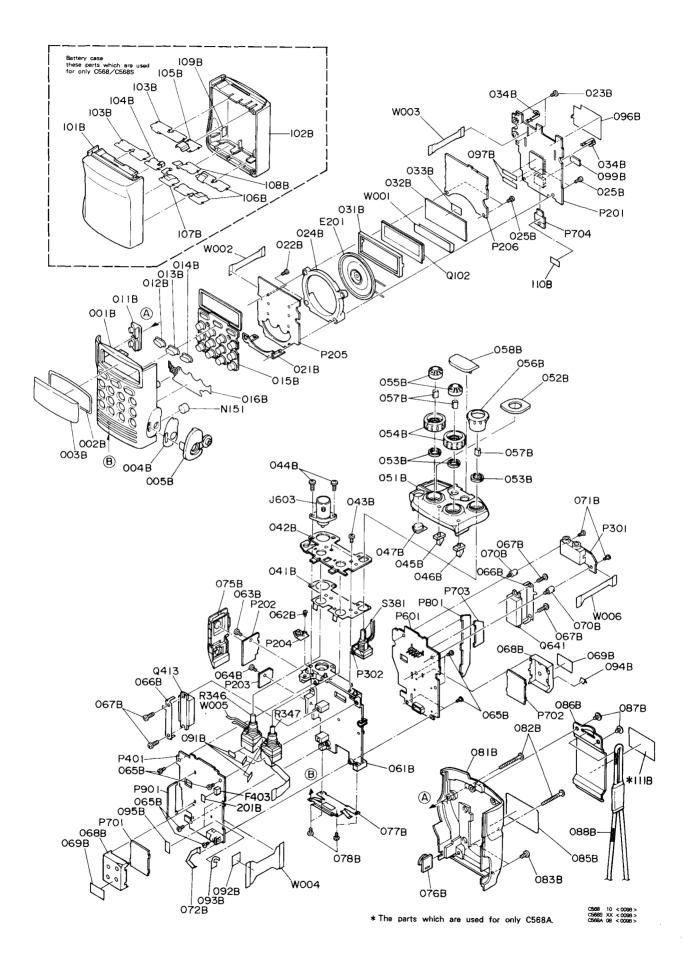
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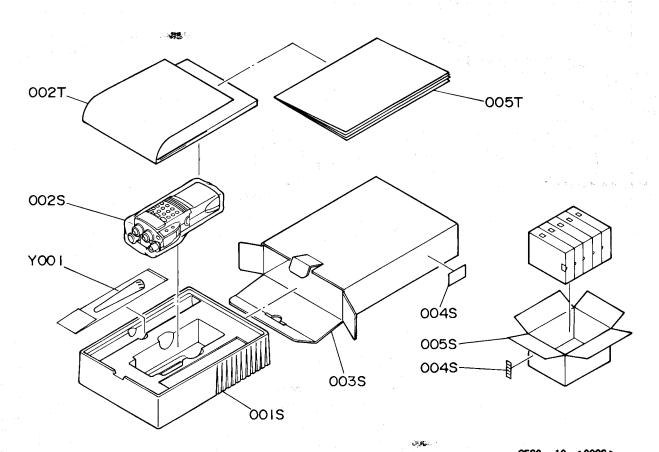
266X064030 266X064040 266X122010 266X122010 266X158010 266X270010 266X270020 266X270020 266X270020 266X270030 266X270050 266X202010 233X160010 124X010020 266X160010 266X151010 233X122030 266X109010 266X109010 266X100010 266X151020	1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 2 233 2 266 1 266 1 266 2 233 2 266 1 266 2 233 2 266 1 266 2 233 2 266 1 266 2 233 2 266 1 266 1 266 1 266 2 233	FRONT CASE [C368A] STICKER FOR FRONT CASE,WINDOW LCD WINDOW STICKER FOR FRONT CASE,DC CAP DC CAP BUTTON FOR LAMP/SQL BUTTON FOR V/M BUTTON FOR MAIN BUTTON FOR CALL BUTTON FOR CALL BUTTON FOR RUBBER CONTACT SPEAKER NET RELEASE BRACKET SCREW FOR KEY BOARD P.C.BOARD SCREW FOR SPEAKER SPACER LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS B	081B 082B 083B 085B 085B 085B 085B 087B 088B 097B 092B 094B 095B 095B 095B 095B 095B 101B 102B 103B 104B 105B 104B 105B 106B 107B	1 2 2 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 2 1	266X064020 124X010010 51100204U0 266X861030 266X861040 266X861050 266X155010 51102603U0 061X156010 266X109050 124X116030 061X122010 266X109050 124X116030 061X056010 266X056010 233X064110 233X064110 233X123050 233X123050 233X123050 159C861020	MECHANISM REAR CASE SCREW FOR FRONT CASE, REAR CASE B.H.M. SCREW B2X4 MODEL LABEL [C5683] MODEL LABEL [C5683] MODEL LABEL [C5684] BELT CLIP B.H.M. SCREW B2.6X3 HAND STRAP STICKER FOR VOL FLEXIBLE P.C. BOARD INSULATOR FOR FLEXIBLE P.C. BOARD SHIELD FOR CERAMIC FILTER (F402) LEAF SPRING FOR UHF VCO CASE STICKER FOR CRYSTAL(X401,X402) SHIELD FOR CONTROL P.C.BOARD BUFFER FOR MICROPROCESSOR (Q209) BUFFER FOR MICROPROCESSOR (Q209) BUFFER FOR EEPROM SOCKET (J201) BATTERY CASE A [C568/C5685] CONTACTOR E [C568/C5685] CONTACTOR B [C568/C5685] CONTACTOR A [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR D [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR D<
286X084040 286X122010 286X122010 286X158010 286X270010 286X270020 286X270020 286X270020 286X270030 286X270050 286X270050 286X202010 233X160010 246X10020 286X160010 286X160010 286X109010 286X160020 233X010020 286X10010	1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 2 233 2 266 1 266 1 266 2 233 2 266 1 266 2 233 2 266 1 266 2 233 2 266 1 266 2 233 2 266 1 266 1 266 1 266 2 233	FRONT CASE [C368A] STICKER FOR FRONT CASE,WINDOW LCD WINDOW STICKER FOR FRONT CASE,DC CAP DC CAP BUTTON FOR LAMP/SQL BUTTON FOR V/M BUTTON FOR MAIN BUTTON FOR CALL BUTTON FOR CALL BUTTON FOR RUBBER CONTACT SPEAKER NET RELEASE BRACKET SCREW FOR KEY BOARD P.C.BOARD SCREW FOR SPEAKER SPACER LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS B	082B 083B 085B 085B 086B 086B 088B 088B 091B 092B 093B 094B 095B 094B 095B 095B 095B 095B 101B 1028 1038 104B 105B 106B 107B 108B	2 2 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	124X010010 51100204U0 266X861030 266X861030 266X861050 266X155010 51102603U0 061X156010 233X122030 266X109050 124X116030 061X122010 266X109050 124X116030 061X122010 266X056010 233X064110 233X064110 233X123060 233X123060 233X123070 233X123070 233X123050 159C861020 159C861020	SCREW FOR FRONT CASE, REAR CASE SCREW FOR FRONT CASE, REAR CASE B.H.M. SCREW B2X4 MODEL LABEL [C5683] MODEL LABEL [C5683] MODEL LABEL [C5684] BELT CLIP B.H.M. SCREW B2.6X3 HAND STRAP STICKER FOR VOL FLEXIBLE P.C. BOARD INSULATOR FOR FLEXIBLE P.C. BOARD SHIELD FOR CERAMIC FILTER (F402) LEAF SPRING FOR UHF VCO CASE STICKER FOR CRYSTAL(X401, X402) SHIELD FOR CONTROL P.C. BOARD BUFFER FOR MICROPROCESSOR (Q209) BUFFER FOR MICROPROCESSOR (Q209) BUFFER FOR EEPROM SOCKET(J201) BATTERY CASE A [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR D [C568/C5685] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL MEMORY UNIT(P704)
286X084040 286X122010 286X122010 286X158010 286X270010 286X270020 286X270020 286X270020 286X270030 286X270050 286X270050 286X202010 233X160010 246X10020 286X160010 286X160010 286X109010 286X160020 233X010020 286X10010	1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 2 233 2 266 1 266 1 266 2 233 2 266 1 266 2 233 2 266 1 266 2 233 2 266 1 266 2 233 2 266 1 266 1 266 1 266 2 233	FRONT CASE [C368A] STICKER FOR FRONT CASE,WINDOW LCD WINDOW STICKER FOR FRONT CASE,DC CAP DC CAP BUTTON FOR LAMP/SQL BUTTON FOR V/M BUTTON FOR MAIN BUTTON FOR CALL BUTTON FOR CALL BUTTON FOR RUBBER CONTACT SPEAKER NET RELEASE BRACKET SCREW FOR KEY BOARD P.C.BOARD SCREW FOR SPEAKER SPACER LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS B	082B 083B 085B 085B 086B 086B 088B 088B 091B 092B 093B 094B 095B 094B 095B 095B 095B 095B 101B 1028 1038 104B 105B 106B 107B 108B	2 2 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	124X010010 51100204U0 266X861030 266X861030 266X861050 266X155010 51102603U0 061X156010 233X122030 266X109050 124X116030 061X122010 266X109050 124X116030 061X122010 266X056010 233X064110 233X064110 233X123060 233X123060 233X123070 233X123070 233X123050 159C861020 159C861020	SCREW FOR FRONT CASE,REAR CASE B.H.M. SCREW B2X4 MODEL LABEL [C5683] MODEL LABEL [C5683] MODEL LABEL [C5683] BELT CLIP [C5683] B.H.M. SCREW B2.6X3 HAND STRAP STICKER FOR VOL FLEXIBLE P.C.BOARD INSULATOR FOR FLEXIBLE P.C.BOARD INSULATOR FOR FLEXIBLE P.C.BOARD SHIELD FOR CERAMIC FILTER (F402) LEAF SPRING FOR UHF VCO CASE STICKER FOR CRYSTAL(X401,X402) SHIELD FOR CONTROL P.C.BOARD BUFFER FOR CONTROL P.C.BOARD BUFFER FOR CRYSTAL(X401,X402) SHIELD FOR CONTROL P.C.BOARD BUFFER FOR EEPROM SOCKET(J201) BATTERY CASE A [C568/C5685] CONTACTOR E [C568/C5685] CONTACTOR A CONTACTOR F [C568/C5685] CONTACTOR F CONTACTOR F [C568/C5685] CONTACTOR F CONTACTOR C [C568/C5685] CONTACTOR C CONTACTOR C [C568/C5685] CONTACTOR F CONTACTOR D [C568/C5685] CONTACTOR C MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR
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286X202010 233X160010 124X010020 286X18010 124X010030 286X160010 286X15010 233X122030 286X123010 286X109010 286X160020 233X010020 286X010010	1 286 1 233 2 124 1 286 4 124 1 286 1 286 1 286 1 286 2 286 1 286	SPEAKER NET RELEASE BRACKET SCREW FOR KEY BOARD P.C.BOARD SCREW FOR CONTROL P.C.BOARD SPEAKER SPACER SCREW FOR SPEAKER SPACER LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	0938 0948 0958 0968 0978 0998 1018 1028 1038 1048 1058 1068 1078 1088 1098 1098	1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1	288X109050 124X116030 061X122010 286X109040 061X056010 286X056010 233X064110 233X064120 233X123060 233X123020 233X123070 233X123070 233X123050 159C861020	SHIELD FOR CERAMIC FILTER (F402)LEAF SPRING FOR UHF VCO CASESTICKER FOR CRYSTAL(X401,X402)SHIELD FOR CONTROL P.C. BOARDBUFFER FOR MICROPROCESSOR (Q209)BUFFER FOR EEPROM SOCKET (J201)BATTERY CASE A[C568/C5685]CONTACTOR A[C568/C5685]CONTACTOR F[C568/C5685]CONTACTOR C[C568/C5685]CONTACTOR D[C568/C5685]CONTACTOR D[C568/C5685]MONTHLY PRODUCTION LABELMONTHLY PRODUCTION LABELMEMORY UNIT(P704)
124X010020 124X010020 266X118010 124X010030 266X160010 266X151010 233X122030 266X123010 266X109010 266X160020 233X010020 266X010010	2 124 2 124 1 266 4 124 1 266 1 266 1 266 1 266 1 266 2 233 2 266 1 266 1 266 1 266	SCREW FOR KEY BOARD P.C.BOARD SCREW FOR CONTROL P.C.BOARD SPEAKER SPACER SCREW FOR SPEAKER SPACER LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	0948 0958 0968 0978 0998 1018 1028 1038 1048 1058 1068 1068 1098 1098 1098	1 2 1 1 1 2 1 1 2 1 1 2 1 1 1 1	124X116030 061X122010 266X109040 061X056010 266X056010 233X064110 233X123060 233X123020 233X123030 233X123070 233X123050 159C861020	LEAF SPRING FOR UHF VCO CASE STICKER FOR CRYSTAL(X401,X402) SHIELD FOR CONTROL P.C.BOARD BUFFER FOR MICROPROCESSOR (Q209) BUFFER FOR EEPROM SOCKET(J201) BATTERY CASE A [C568/C5685] CONTACTOR E [C568/C5685] CONTACTOR A [C568/C5685] CONTACTOR B [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR D [C568/C5685] CONTACTOR D [C568/C5685] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
124X010020 124X010020 266X118010 124X010030 266X160010 266X151010 233X122030 266X123010 266X109010 266X160020 233X010020 266X010010	2 124 2 124 1 266 4 124 1 266 1 266 1 266 1 266 1 266 2 233 2 266 1 266 1 266 1 266	SCREW FOR KEY BOARD P.C.BOARD SCREW FOR CONTROL P.C.BOARD SPEAKER SPACER SCREW FOR SPEAKER SPACER LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	0968 0978 0998 1018 1028 1038 1048 1058 1068 1078 1088 1088 1098	1 2 1 1 2 1 1 2 1 1 1 1 1	266X109040 061X056010 266X056010 233X064110 233X123060 233X123020 233X123020 233X123070 233X123070 233X123050 159C861020	STICKER FOR CRYSTAL(X401,X402)SHIELD FOR CONTROL P.C.BOARDBUFFER FOR MICROPROCESSOR (Q209)BUFFER FOR EEPROM SOCKET(J201)BATTERY CASE A[C568/C5685]CONTACTOR E[C568/C5685]CONTACTOR A[C568/C5685]CONTACTOR A[C568/C5685]CONTACTOR B[C568/C5685]CONTACTOR B[C568/C5685]CONTACTOR F[C568/C5685]CONTACTOR C[C568/C5685]CONTACTOR D[C568/C5685]CONTACTOR D[C568/C5685]CONTACTOR D[C568/C5685]CONTACTOR D[C568/C5685]MONTHLY PRODUCTION LABELMONTHLY PRODUCTION LABELMONTHLY PRODUCTION LABELMONTHLY PRODUCTION LABEL FORMEMORY UNIT(P704)
124X010020 266X118010 124X010030 266X15010 233X122030 266X123010 266X109010 266X160020 233X010020 266X010010	2 124 1 266 4 124 1 266 1 266 1 233 2 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266	SCREW FOR CONTROL P.C.BOARD SPEAKER SPACER SCREW FOR SPEAKER SPACER LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	0978 0998 1018 1028 1038 1048 1058 1068 1068 1088 1088 1088	2 1 1 2 1 1 2 1 1 1 1	061X056010 268X056010 233X084110 233X084120 233X123060 233X123020 233X123070 233X123070 233X123050 159C861020	BUFFER FOR MICROPROCESSOR (Q209)BUFFER FOR EEPROM SOCKET(J201)BATTERY CASE A[C568/C5685]BATTERY CASE B[C568/C5685]CONTACTOR E[C568/C5685]CONTACTOR A[C568/C5685]CONTACTOR B[C568/C5685]CONTACTOR F[C568/C5685]CONTACTOR C[C568/C5685]CONTACTOR D[C568/C5685]CONTACTOR D[C568/C5685]CONTACTOR D[C568/C5685]MONTHLY PRODUCTION LABELMONTHLY PRODUCTION LABEL FORMEMORY UNIT(P704)
266X118010 124X010030 266X160010 266X151010 233X122030 266X123010 266X109010 266X160020 233X010020 266X010010	1 286 4 124 1 266 1 233 2 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266 1 266	SPEAKER SPACER SCREW FOR SPEAKER SPACER LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR ANTENNA SOCKET (BNC) LED LENS A LED LENS B	0998 1018 1028 1038 1048 1058 1068 1078 1088 1088 1088 1088	1 1 2 1 2 1 1 1 1	266X056010 233X064110 233X064120 233X123060 233X123020 233X123030 233X123070 233X123070 233X123050 159C861020	BUFFER FOR EEPROM SOCKET (J201)BATTERY CASE A[C568/C568S]BATTERY CASE B[C568/C568S]CONTACTOR E[C568/C568S]CONTACTOR A[C568/C568S]CONTACTOR B[C568/C568S]CONTACTOR F[C568/C568S]CONTACTOR C[C568/C568S]CONTACTOR D[C568/C568S]CONTACTOR D[C568/C568S]CONTACTOR D[C568/C568S]MONTHLY PRODUCTION LABELMONTHLY PRODUCTION LABELMONTHLY PRODUCTION LABEL FORMEMORY UNIT (P704)
124X010030 266X160010 266X151010 233X122030 266X123010 266X109010 266X160020 233X010020 266X010010	4 124 1 266 1 266 1 233 2 266 1 266 1 266 1 266 1 266 1 266 1 266	SCREW FOR SPEAKER SPACER LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	1018 1028 1038 1048 1058 1068 1078 1088 1098 1098	1 1 2 1 1 2 1 1 1 1	233X064110 233X064120 233X123060 233X123020 233X123030 233X123070 233X123040 233X123050 159C861020	BATTERY CASE A [C568/C568S] BATTERY CASE B [C568/C568S] CONTACTOR E [C568/C568S] CONTACTOR A [C568/C568S] CONTACTOR B [C568/C568S] CONTACTOR F [C568/C568S] CONTACTOR C [C568/C568S] CONTACTOR D [C568/C568S] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
266X160010 266X151010 233X122030 266X123010 266X109010 266X160020 233X010020 266X010010	1 266 1 233 2 266 1 286 1 286 1 286 2 233 2 266 1 266 1 266	LCD COVER INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	1028 1038 1048 1058 1068 1078 1088 1098 1108	1 2 1 2 1 1 1 1 1	233X084120 233X123060 233X123020 233X123030 233X123070 233X123040 233X123050 159C861020 159C881020	BATTERY CASE B [C568/C5685] CONTACTOR E [C568/C5685] CONTACTOR A [C568/C5685] CONTACTOR B [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR D [C568/C5685] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
266X151010 233X122030 266X123010 266X109010 266X160020 233X010020 266X010010	1 266 1 233 2 266 1 266 1 266 2 233 2 266 1 266 1 266	INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	1028 1038 1048 1058 1068 1078 1088 1098 1108	1 2 1 2 1 1 1 1 1	233X084120 233X123060 233X123020 233X123030 233X123070 233X123040 233X123050 159C861020 159C881020	BATTERY CASE B [C568/C5685] CONTACTOR E [C568/C5685] CONTACTOR A [C568/C5685] CONTACTOR B [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR D [C568/C5685] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
266X151010 233X122030 266X123010 266X109010 266X160020 233X010020 266X010010	1 266 1 233 2 266 1 266 1 266 2 233 2 266 1 266 1 266	INTRODUCER STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	1038 1048 1058 1068 1078 1088 1098 1108	2 1 2 1 1 1 1	233X123060 233X123020 233X123030 233X123070 233X123040 233X123050 159C861020 159C861020	CONTACTOR E[C588/C5885]CONTACTOR A[C588/C5885]CONTACTOR B[C588/C5885]CONTACTOR F[C588/C5885]CONTACTOR C[C588/C5885]CONTACTOR D[C588/C5885]MONTHLY PRODUCTION LABELMONTHLY PRODUCTION LABELMONTHLY PRODUCTION LABEL FORMEMORY UNIT(P704)
233X122030 266X123010 266X109010 266X160020 233X010020 266X010010	1 233 2 266 1 266 1 266 2 233 2 236 1 266 1 266 1 266 1 266 1 266 1 266	STICKER FOR CONTROL P.C.BOARD,032B CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	1048 1058 1068 1078 1088 1098 1108	1 2 1 1 1	233X123020 233X123030 233X123070 233X123040 233X123050 159C861020 159C861020	CONTACTOR A [C568/C5685] CONTACTOR B [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR D [C568/C5685] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
266X123010 266X109010 266X160020 233X010020 266X010010	2 266 1 266 2 233 2 266 1 266 1 266	CONTACTOR FOR GROUND SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	105B 106B 107B 108B 109B 110B	1 2 1 1 1 1	233X123030 233X123070 233X123040 233X123050 159C861020 159C861020	CONTACTOR B [C568/C5685] CONTACTOR F [C568/C5685] CONTACTOR C [C568/C5685] CONTACTOR D [C568/C5685] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
266X109010 266X160020 233X010020 266X010010	1 286 1 286 2 233 2 286 1 266 1 266	SHIELGD FOR GROUND SPRING VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	106B 107B 108B 109B 110B	2 1 1 1	233X123070 233X123040 233X123050 159C861020 159C861020	CONTACTOR F [C588/C5885] CONTACTOR C [C588/C5885] CONTACTOR D [C588/C5885] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
286X160020 233X010020 286X010010	1 266 2 233 2 266 1 266 1 266	VOLUME BRACKET SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	107B 108B 109B 110B	1 1 1 1	233X123040 233X123050 159C861020 159C861020	CONTACTOR C [C588/C5885] CONTACTOR D [C588/C5885] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
233X010020 266X010010	2 233 2 266 1 266 1 266	SCREW FOR VOLUME BRACKET SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	109B 110B	1	159C861020 159C861020	CONTACTOR D [C588/C588S] MONTHLY PRODUCTION LABEL MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
266X010010	2 266 1 266 1 266	SCREW FOR ANTENNA SOCKET(BNC) LED LENS A LED LENS B	110B	1	159C861020	MONTHLY PRODUCTION LABEL FOR MEMORY UNIT(P704)
	1 286 1 266	LED LENS A LED LENS B				MEMORY UNIT(P704)
266X151020	1 266	LED LENS B	111B	1	1000861010	
· ·			111B	1	1000881010	HYATT PATENT LABEL [C586A]
266X151030	1 266	BUTTON FOR POWER	1118	1	1000881010	HYATT PATENT LABEL [C586A]
266X270060						
288X083010	1 286	ESCUTCHEON	201 B	1	233X122030	STICKER FOR FLEXIBLE P.C.BOARD
266X053010	1 286	ANTENNA RUBBER COVER				
168X011010						
266X154010						
266X154020						
266X154030 282C115010						
266X067020				1		
200,007,020	1 200	CAP FOR MIC/SPR SOCRET		1		
266X267010	1 266	BRACKET (HEATSINK)				
233X010020	1 233	SCREW FOR POWER SW P.C.BOARD				
233X010020	1 233	SCREW FOR PTT P.C.BOARD				$(1,1,2,\dots,n) = (1,1,2,\dots,n) = (1,1,2,\dots,n)$
233X010020	1 233	SCREW FOR FUNCTION P.C.BOARD				a second of the Second second
233X010020			1			
266X109020						
266X010010						
266X109030				1		
102X107010				Ì		
2662055010	2 200	COLLAR		1		
233X010020	2 233	SCREW FOR SPK/MIC SOCKET P.C.BOARD				
266X123020		·····		1		
				1		
266X270070	1 286	RELEASE BUTTON		1		
				1	Ψ'	
266X270070 266X102010 266X116010	4 124	SCREW FOR RELEASE SPRING (077B)	,	1		
266X270070 266X102010				1		
266X270070 266X102010 266X116010						
266X270070 266X102010 266X116010						
266X270070 266X102010 266X116010				1		
266X270070 266X102010 266X116010	ł			1		· · · · · · · · · · · · · · · · · · ·
266X270070 266X102010 266X116010	1			1		C568 10 < 0096 > C568S XX < 0096 >
266X270070 266X102010 266X116010						
	2 1 1 1 1	2 3 3X010020 266X123020 266X270070 266X102010 266X116010	268X270070 BUTTON FOR FUNCTION,PTT 266X102010 RELEASE BUTTON 266X116010 RELEASE SPRING	233X010020SCREW FOR SPK/MIC SOCKET P.C.BOARD266X123020CONTACTOR266X270070BUTTON FOR FUNCTION,PTT266X102010RELEASE BUTTON266X116010RELEASE SPRING124X010050SCREW FOR RELEASE SPRING (077B)	233X010020SCREW FOR SPK/MIC SOCKET P.C.BOARD266X123020CONTACTOR266X270070BUTTON FOR FUNCTION,PTT266X102010RELEASE BUTTON266X116010RELEASE SPRING124X010050SCREW FOR RELEASE SPRING (077B)	233X010020SCREW FOR SPK/MIC SOCKET P.C.BOARD268X123020CONTACTOR268X270070BUTTON FOR FUNCTION,PTT268X102010RELEASE BUTTON268X102010RELEASE BUTTON268X116010RELEASE SPRING124X010050SCREW FOR RELEASE SPRING (077B)

8. EXPLODED PARTS VIEW



9. PACKING DIAGRAM AND PARTS LIST

9.1 Transceiver (C568/C568S)



C568 10 < 0096 > C568S XX < 0096 >

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ref. Desig.	QTY	PART NO.	DESCRIPTION
			PACKING (C568/C5688)
001S	1	266X809010	CUSHION
0025	1	9011020010	POLYETHYLENE BAG
003S	1	266X801020	PACKING CASE [C568]
003S	1	266X801030	PACKING CASE [C568S]
004S	2	9524520010	LABEL FOR SERIAL NUMBER
005S	1	266X805020	MASTER CARTON [C568]
005S	1	266X805030	MASTER CARTON [C568S]
002T	1	266X851010	USER MANUAL
005T	1	266X859020	BLOCK DIAGRAM
Y001	1	YR9901209R	WHIP ANTENNA
			C568 10 < 0096 >
	ļ		C568S XX < 0096 >