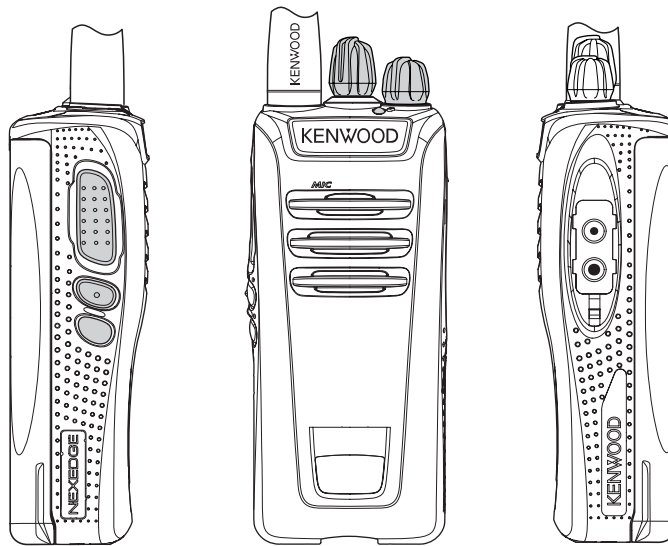# KENWOOD

SERVICE MANUAL

UHF DIGITAL TRANSCEIVER

NX-340, NX-340(U)

Note :
Lead free solder used in the board (material : Sn, Ag, In, Bi, melting point : 227 Centigrade)

TABLE OF CONTENTS

REVISED Ⅲ

This service manual has been revised due to the addition of NX-340 type K3

This product complies with the **RoHS** directive for the European market.

This product uses Lead Free solder.

Document Copyrights

Disclaimer

Firmware Copyrights

Service Manual List

Manual number	Model name	Market code	Remarks
No.RA003 <Rev.001>	NX-340	K	First edition
	NX-340(U)	K	
No.RA003 <Rev.002>	NX-340	K, M	Revised edition
	NX-340(U)	K	
No.RA003 <Rev.003>	NX-340	K, K2, P, M, M2, M3	Revised 2 edition
	NX-340(U)	K, K2	
No.RA003 <Rev.004>	NX-340	K, K2, K3, P, M, M2, M3	Revised 3
	NX-340(U)	K, K2	This service manual

SPECIFICATION

GENERAL

Frequency Range	K, M	450~520MHz
	K2, P, M2, M3	400~470MHz
	K3	350~400MHz
Number of Channels		32
Zones		2
Max. Channels per Zone		16
Channel Spacing	Analog	12.5kHz
	Digital	6.25kHz
Operating Voltage		7.5V DC ±20%
Battery Life Battery Saver OFF/ON (5-5-90 at high power with KNB-45L (2000mAh))		Approx. 10/12 hours
Operating Temperature Range		-30°C~+60°C (-22°F to +140°F)
Frequency Stability		±1.0ppm
Antenna Impedance		50Ω
Dimensions (W x H x D) (Projections not included)	with KNB-45L	54 x 122 x 35.3 mm (2.13 x 4.80 x 1.39 in)
Weight (net)	Radio only	165 g (5.8 oz)
	with KNB-45L	281 g (9.9 oz)

RECEIVER

Sensitivity	Digital	0.25μV
	Analog	0.25μV (EIA 12dB SINAD)
Selectivity	Analog	60dB
Intermodulation Distortion	Analog	60dB
Spurious Response	Analog	70dB
Audio Distortion		Less than 10%
Audio Output		1W/12Ω (Internal speaker) 500mW/8Ω (External output)

TRANSMITTER

RF Power Output	High/Low	5W/1W
Spurious Response		70dB
FM Hum & Noise	Analog	40dB
Audio Distortion		Less than 10%
Modulation		11K0F3E, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

Analog measurements made per TIA/EIA-603 and specifications shown are typical.
JVC KENWOOD Corporation reserves the right to change specifications without prior notice or obligation.

SECTION 1
PRECAUTION

This service manual does not describe PRECAUTION.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 CIRCUIT DESCRIPTION

2.1.1 Frequency Configuration

The receiver utilizes double conversion. The first IF is 49.95MHz and the second IF is 450kHz. The first Local oscillator is supplied from the PLL circuit.
The PLL circuit in the transmitter generates the necessary frequencies. Figure 1 shows the frequencies.

TX/RX: 450~520MHz (K, M)
TX/RX: 400~470MHz (K2, P, M2, M3)
TX/RX: 350~400MHz (K3)
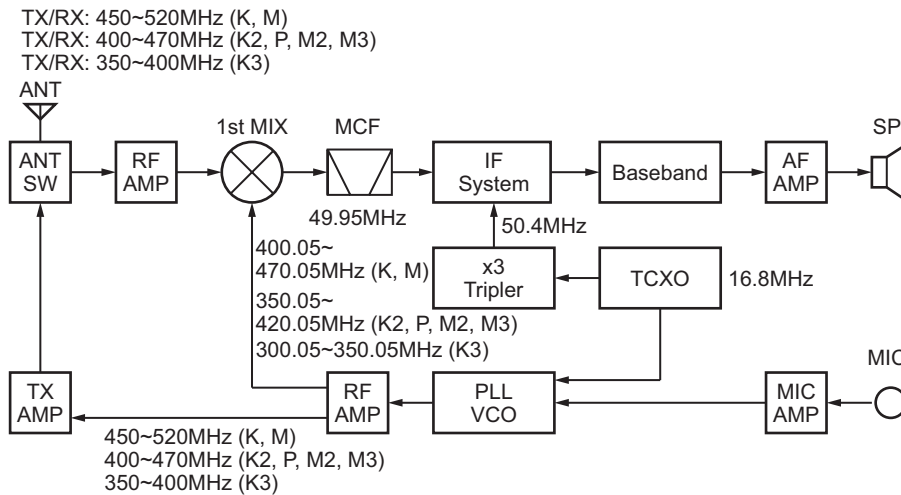
Fig.1 Frequency configuration

2.1.2 Receiver System

The receiver system is shown in Figure 2.
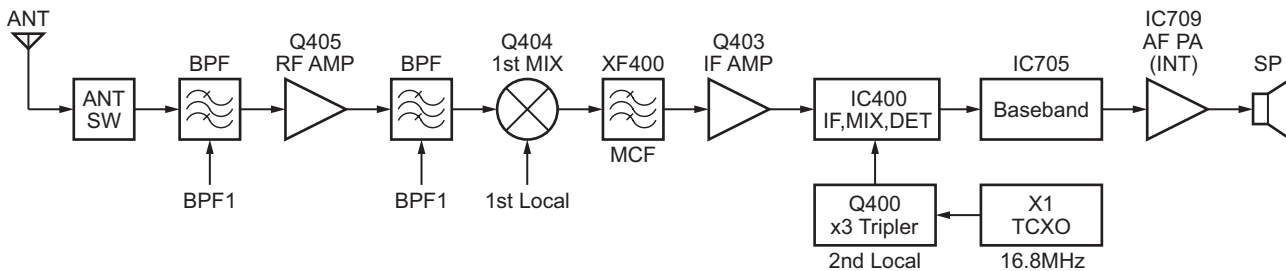
Fig.2 Receiver system

2.1.2.1 Front End (RF Amplifier) Circuit

The signal coming from the antenna passes through the transmit/receive switching diode circuit (D201, D202, D203 and D204) and a BPF (L415 and L416), and is then amplified by the RF amplifier (Q405).
The resulting signal passes through a BPF (L410,L411 and L413) and goes to the mixer. The BPF is adjusted by variable capacitance diodes (D400, D401, D402, D403 and D404). The input voltage to the variable capacitance diodes is the regulated voltage output from the DC amplifier (IC704).

2.1.2.2 First Mixer

The signal from the front end is mixed with the first local oscillator signal generated in the PLL circuit by Q404 to produce the first IF frequency of 49.95MHz.
The resulting signal passes through the XF400 MCF to cut the adjacent spurious and provide optimum characteristics, such as adjacent frequency selectivity.

2.1.2.3　IF Amplifier Circuit

The first IF signal is passed through a four-pole monolithic crystal filter (XF400) to remove the adjacent channel signal. The filtered first IF signal is amplified by the first IF amplifier (Q403) and is then applied to the IF system IC (IC400).

The IF system IC provides a second mixer, AGC+BPF, PLL FM detector, noise squelch and RSSI circuit.

The second mixer mixes the first IF signal (49.95MHz) with the signal of the second local oscillator output (Q400) and produces the second IF signal of 450kHz.

The second IF signal is passed through the internal bandpass filter of the IF system IC to remove the adjacent channel signal. The filtered second IF signal is amplified by the limiting amplifier and demodulated by the internal discriminator of the IF system IC.

The demodulated signal is routed to the audio circuit.

2.1.2.4　Audio Amplifier Circuit

The demodulated signal from IC400 is sent to an AF amplifier through IC705, and is routed to an audio power amplifier (INT:IC709, EXT:IC707) where it is amplified and output to the speaker.
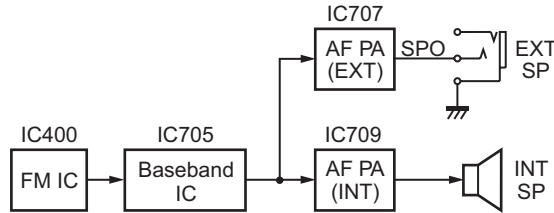
Fig.3 Audio amplifier circuit

2.1.2.5　Squelch Circuit

Part of the AF signal from the IC400 enters the FM IC (IC400) again, and the noise component is amplified and rectified by a filter and an amplifier to produce a DC voltage corresponding to the noise level.

The DC signal from the FM IC goes to the analog port of the MCU (IC710). IC710 determines whether or not to output sounds from the speaker by checking if the input voltage is higher or lower than the preset value.

To output sounds from the speaker, IC710 sends a high signal to the EXTSPSW line and turns IC707 on through Q709, Q710, Q713 and Q716. This explanation is for the external speaker amplifier. For the internal loudspeaker amplifier, IC710 sends a high signal to the INTSPSW line and turns IC709 on through Q711 and Q714.

2.1.3　Transmitter System

2.1.3.1　Microphone Amplifier Circuit

The signal from the microphone is limited by the AGC circuit, which is composed of D700, D701, Q705, Q706 and the mute switch (Q704). IC705 is composed of a high-pass filter, low-pass filter and pre-emphasis/IDC circuit.

The signal from the microphone and the low speed data from the MCU (IC710) enter the baseband IC (IC705) and pass through each path and are mixed inside the IC.

The output signal from the audio processor MOD2 goes to the VCO modulation input. The other output signal from MOD1 goes to the TCXO modulation input.
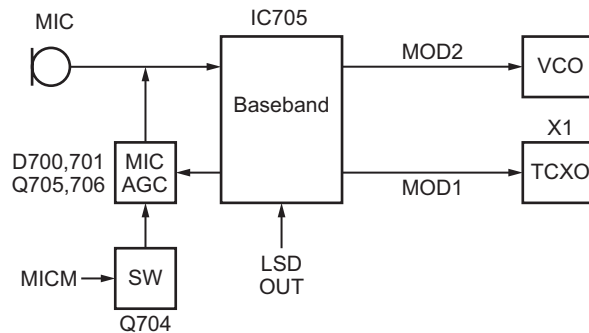
Fig.4 Microphone amplifier circuit

2.1.3.2　Drive and Final Amplifier Circuit

The signal from the T/R switch (D15 is on) is amplified by the pre-drive amplifier (Q201) to 20mW.

The output of the pre-drive amplifier is amplified by the drive amplifier (Q206) and the RF final amplifier (Q208) to 5.0W (1W when the power is low).

The drive amplifier and the RF final amplifier consist of two MOS FET stages.

The output of the RF final amplifier is then passed through the antenna switch (D203 and D204) and harmonic filter (LPF) and is applied to the antenna terminal.

2.1.3.3 APC Circuit

The APC circuit always monitors the current flowing through the drive amplifier (Q206) and RF power amplifier (Q208), and keeps it constant. The voltage drop at R230, R231 and R233 is caused by the current flowing through the RF final amplifier. This voltage is applied to the differential amplifier IC200 (1/2).

IC200 (2/2) compares the output voltage of IC200 (1/2) with the reference voltage from IC705 (32pin:AUXDAC1). The output of IC200 (2/2) controls the gate bias voltage of the RF power amplifier and the drive amplifier to make both voltages the same.

The change of power (high/low) is carried out by the change of the reference voltage.
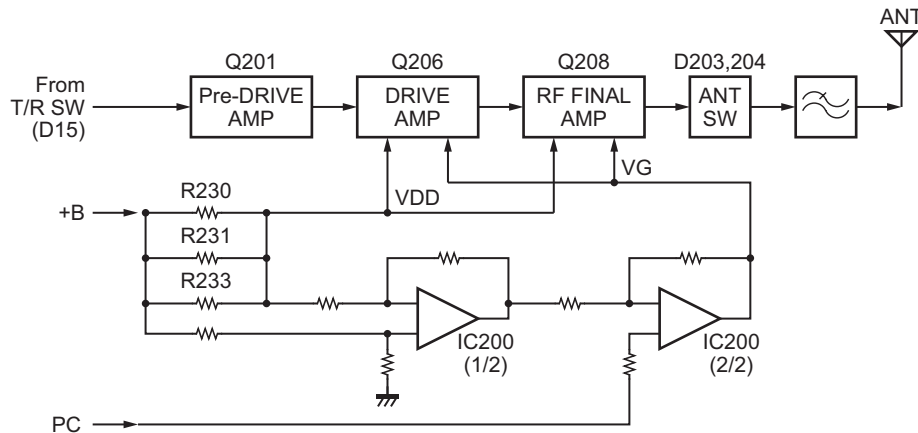
Fig.5 Drive and final amplifier and APC circuit

2.1.4 Frequency Synthesizer Unit

2.1.4.1 Frequency synthesizer

The frequency synthesizer consists of the TCXO (X1), VCO, PLL-IC (IC2), and buffer amplifiers.

The TCXO generates 16.8MHz. The frequency stability of TCXO is 0.5ppm within the temperature range of -30°C to +60°C. The frequency tuning and modulation of the TCXO are done to apply voltage to pin 1 of the TCXO. The TCXO output is applied to pin 10 of the PLL-IC.

The VCO consists of 2 VCOs and covers a dual range of 400.05~470.05MHz (K, M), 350.05~420.05MHz (K2, P, M2, M3) or 300.05~350.05MHz (K3) and 450~520MHz (K, M), 400~470MHz (K2, P, M2, M3) or 350~400MHz (K3). The VCO generates 400.05~470.05MHz (K, M), 350.05~420.05MHz (K2, P, M2, M3) or 300.5~350.05MHz (K3) to provide the first local signal for reception. The operating frequency is generated by Q6 in transmitting mode and Q5 in receiving mode. The oscillation frequency is controlled by applying the VCO control voltage, obtained from the phase comparator (IC2) to the variable capacitance diodes (D5, D9, D11,and D13 while transmitting and D4, D7 and D12 while receiving).

The TX/RX pin of IC710 goes "high" in transmission mode, causing Q8 to turn off, and Q7 turn on. The TX/RX pin goes "low" in reception mode.

The output from Q5 and Q6 are amplified by a buffer amplifier (Q9) and RF amplifier (Q2), and are then sent to the PLL-IC. The PLL-IC consists of a prescaler, reference divider, phase comparator, and charge pump.

The input signal from pin 10 and 17 of the PLL-IC is divided down and compared at the phase comparator. The pulse output signal of the phase comparator is applied to the charge pump and transformed into a DC signal in the loop filter (LPF). The DC signal is applied to the CV of the VCO and is locked to keep the VCO frequency constant.

PLL data is output from PLL_LE (pin 87), PLL_DATA (pin 86) and PLL_CLK (pin 88) of the MCU (IC710). The data is input to the PLL-IC when the channel is changed or when transmission is changed to reception and vice-versa. The PLL lock condition is always monitored by pin 70 (PLL_LD) of the MCU. When the PLL is unlocked, PLL_LD goes low.
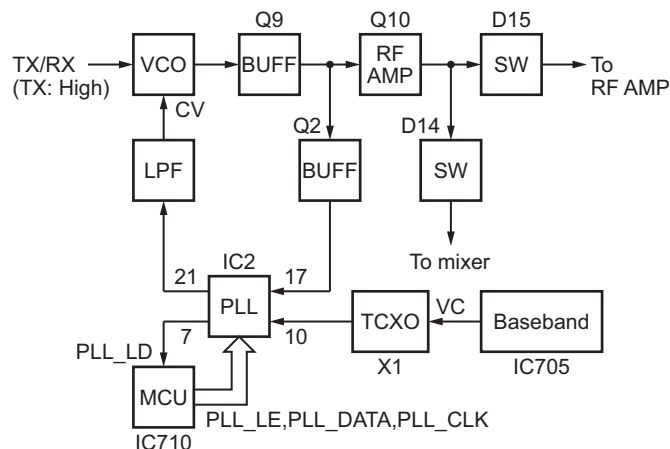
Fig.6 PLL block diagram

2.1.5 Control Circuit

The control consists of the MCU (IC710) and its peripheral circuits. It controls the TX-RX unit. IC710 mainly performs the following;

(1) Switching between transmission and reception via the PTT signal input.
(2) Reading channel information, frequency, and program data from the memory circuit.
(3) Sending frequency program data to the PLL.
(4) Controlling squelch on/off via the DC voltage from the squelch circuit.
(5) Controlling the audio mute circuit via the decode data input.
(6) Transmitting tone and encode data.

2.1.5.1 Frequency Shift Circuit

The MCU (IC710) and baseband IC (IC705) operate at a clock frequency of 19.2MHz.

This oscillator frequency can be shifted by pin 8 of the MCU (IC710). When pin 8 is set to high, the beat shift function is ON.

A beat sound may be able to be evaded from generation if "Beat Shift" is set to ON when it is generated in the internal spurious transmission modulated sound of the transceiver.
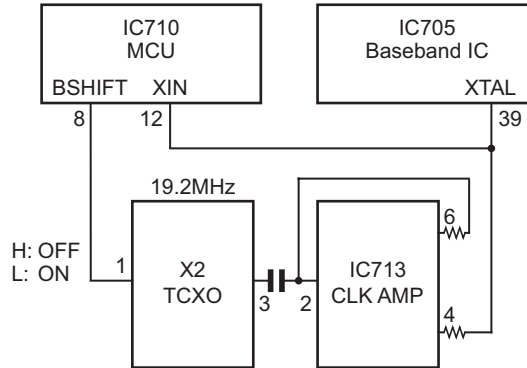
Fig.7 Frequency shift circuit

2.1.5.2 Memory Circuit

The Memory circuit consists of the MCU (IC710) and EEPROM (IC700). The EEPROM has a capacity of 64K-bit and stores the channel information, the last channel data, the scan on status, and other parameters.

■EEPROM

Note:

The EEPROM stores tuning data (Deviation, Squelch, etc.).
Realign the transceiver after replacing the EEPROM.

2.1.5.3 Low Battery Warning

The battery voltage is monitored by the MCU (IC710 pin 33: BATT). When the battery voltage falls below 6.4V approximately, the red LED blinks, notifying the operator that it is time to replace the battery (When "Always" option (default setting) under the Battery Warning function in the FPU is selected).

If the battery voltage falls below 5.8V approximately, the transceiver does not transmit and a warning tone beeps when the PTT switch is pressed (When the Battery Warning Tone is selected in the FPU).

2.1.5.4 Key Input

Keys and channel selector circuit.

The signal from the keys and channel selector are directly input to the MCU, as shown in Figure 8.
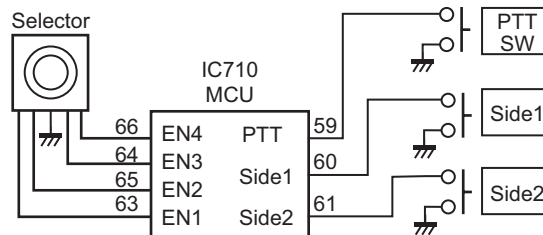
Fig.8 Key input

2.1.6 Signaling Circuit

2.1.6.1 Encode

■ Low-speed data (QT, DQT)

Low-speed data is output from pin 29 of the MCU. The signal passes through the low pass CR filter, and goes to the audio processor (IC705). The signal is mixed with the audio signal and goes to the VCO and TCXO (X1) modulation input after passing through the D/A converter inside the audio processor (IC705) for BAL adjustment.

■High-speed data (2-tone,DTMF)

High-speed data (HSD) is output from pin 30 of the MCU. HSD deviation made by an adjustment in the MCU is passed through the low pass CR filter and is then applied to the baseband IC (IC705).

The signal is mixed with the audio signal and goes to the VCO and TCXO. The signal passes through low pass CR filter and D/A converter, and goes to the audio power amplifier. The level is controlled by the MCU.

■MSK (Fleet Sync/MDC-1200)

The MSK signal is generated in the audio processor (IC705). The signal passes through the D/A converter (inside the baseband IC: IC705) and is routed to the VCO. When encoding the MSK, the microphone input signal is muted.

2.1.6.2 Decode

■QT/DQT

The output signal from the FM IC (IC400) enters the MCU (IC710) through IC705. IC710 determines whether or not the QT or DQT matches the preset value, and controls the AFSW and speaker output sounds according to the squelch results.

■2-tone

Part of the received AF signal output from the FM IC (IC400) passes through the baseband IC (IC705), and is compared before going to the MCU (IC710). IC710 checks whether or not the 2-tone data is necessary. If it matches, IC710 carries out a specified operation, such as turning the speaker on.

■MSK (Fleet Sync)

The MSK input signal from the FM IC (IC400) goes to IC705. The decoded information is then processed by the MCU.

■DTMF

The DTMF input signal from the FM IC (IC400) goes to IC705. The decoded information is then processed by the MCU.

2.1.7 Power Supply

There are five 5V power supplies and five 3.3V power supplies: 50M, 50V, 50C, 50R, 50T, 33M, 33MS, 33B, 33R and 33MD.

50M and 33M are always output while the power is on.

33MS is always output, but turns off when the power is turned off, to prevent a malfunction of the MCU.

50C is a common 5V and is output when SAVE is not set to ON.

50R is 5V for reception and is output during reception.

50T is 5V for transmission and is output during transmission.

50V is 5V for the SP/MIC connector.

33B is 3.3V for the baseband IC (IC705).

3R is 3.3V for the IF IC (IC400) and is sent when SAVE is not set to ON.

33MD is 3.3V for the MCU digital supply.
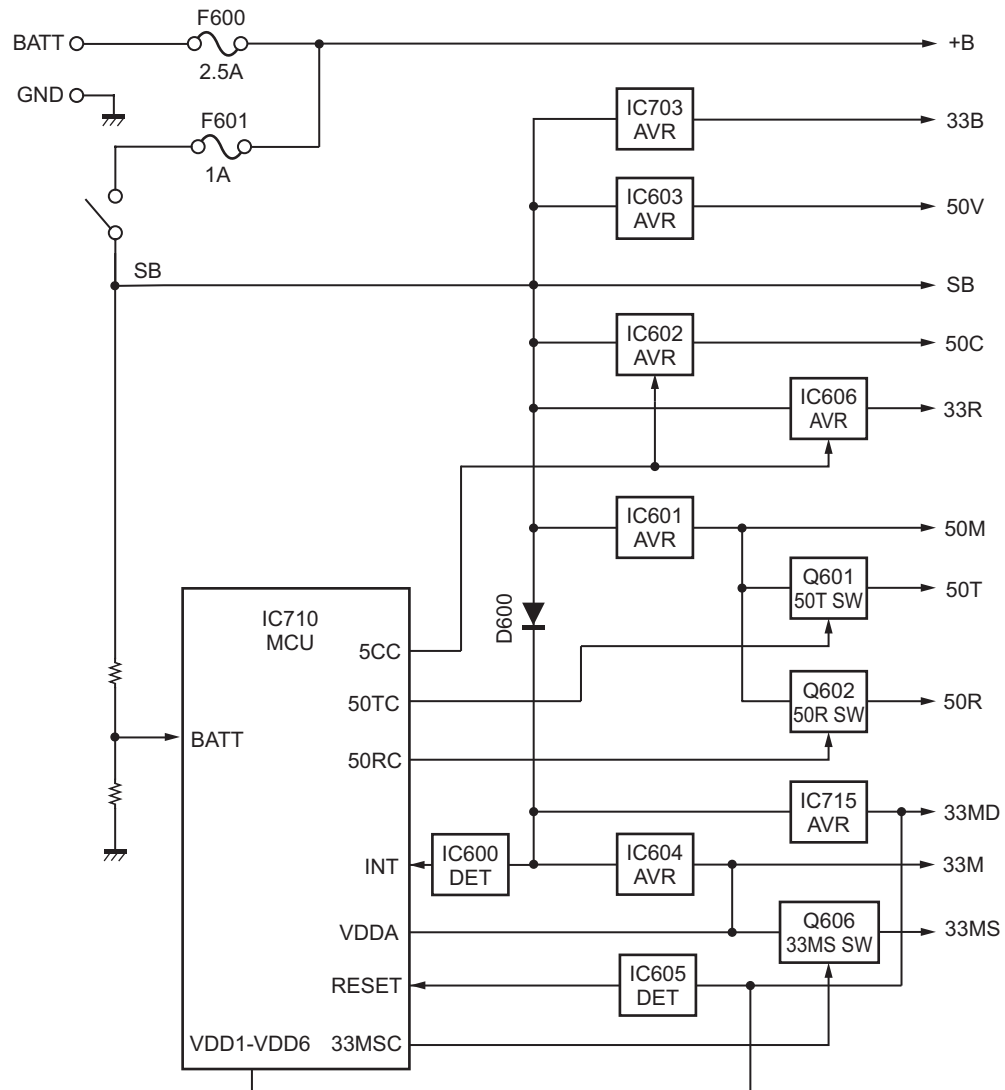
Fig.9 Power supply

2.1.8 NXDN Receiving

2.1.8.1 For Digital Data Mode

The demodulated signal from IC400 (Pin13) is fed into the baseband IC (Pin 16) for NXDN decoding. The decoded digital data will pass to the MCU through the C-BUS. The MCU determines whether or not to output sound from the speaker by checking if the data matches.

2.1.8.2 For Digital Voice Mode

If the digital data matches in the MCU, the digital voice payload data will go into the Vocoder in the MCU for conversion to PCM. The PCM data will go to the baseband IC through the SPI input, where it will be converted to analog by the DAC. Analog voice will be filtered and finally sent to the audio amplifier.
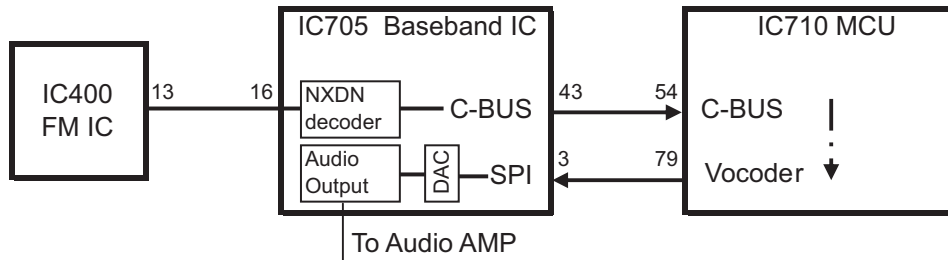
Fig.10 NXDN receiver system

2.1.9 NXDN Transmitting

2.1.9.1 For Digital Data Mode

The digital data will be generated by the MCU, where it will be passed to the baseband IC, through the C-BUS for the encoding process. The encoded data will finally transmit through the TCXO and VCO modulation.

2.1.9.2 For Digital Voice Mode

The analog voice from the microphone will go to the ADC (after the audio filter) to convert to PCM data. The PCM data will be sent to the Vocoder through the SPI output. The Vocoder will convert the PCM to NXDN protocol, where it will be sent to the baseband through the C-BUS. In the baseband IC, the data will be encoded and finally transmitted through the TCXO and VCO modulation.
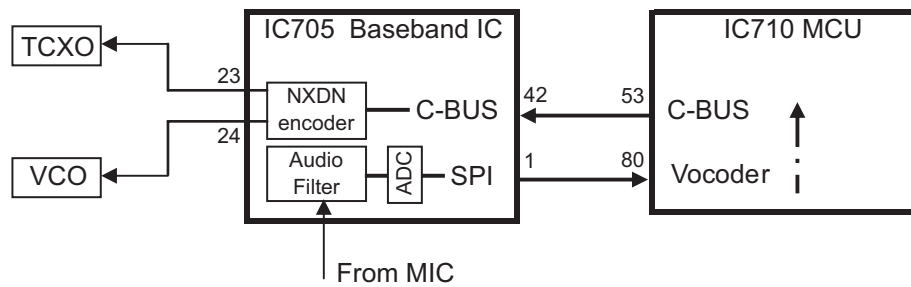
Fig.11 NXDN transmit system

2.2 SEMICONDUCTOR DATA

2.2.1 MCU: 2F405VGT6KFAA (TX-RX unit IC710)

Pin No.	Name	I/O	Function
1	MINVOL	O	Minimum volume control
2	DCSW	O	APC voltage discharge switch
3	APCSW	O	APC switch
4	TEST_1	O	Test land 1
5	TEST_2	O	Test land 2
6	VBAT	-	3.3V
7	BLULED	O	Blue LED light control (Hi: LED ON)
8	BSHIFT	O	MPU clock frequency shift
9	INSPMT	O	Internal speaker mute
10	VSS1	-	GND
11	VDD1	-	3.3V
12	XIN	I	Crystal (19.2MHz)
13	NC	O	No connection
14	NRST	I	MCU reset input
15	LSDI	I	QT/DQT decode
16	HSDDEC	I	2-tone decode

Pin No.	Name	I/O	Function
17	VOX	I	VOX level input
18	OPT4	I/O	Option port 4
19	VDD	-	33MD
20	VSSA	-	GND
21	VREF+	-	33M
22	VDDA	-	33M
23	5CC	O	5C control
24	CVIN	I	VCO lock voltage (for automatic alignment)
25	EMPTT	O	Emergency PTT
26	50VC	O	5V AVR control for GPS MIC option/OPT detection
27	VSS2	-	GND
28	VDD3	-	33MD
29	LSDO	O	QT/DQT output
30	HSDENC	O	BEEP/HSD output
31	5RC	O	5R control
32	5TC	O	5T control
33	BATT	I	Battery level input

Pin No.	Name	I/O	Function
34	RSSI	I	RSSI input
35	BUSY	I	BUSY input
36	TH_DET	I	Thermistor detection (Temperature detection)
37	33MSC	I/O	33M switch control
38	OPT1	O	Option port 1
39	OPTDET	I	Option detection
40	GRNLED	O	Green LED control (Hi: LED ON)
41	REDLED	O	Red LED control (Hi: LED ON)
42	MIC_MT	O	MIC mute
43	EXTSPMT	O	Speaker mute
44	ASSTSW	O	Assist switch
45	TX/RX	O	TX/RX switch (Hi: TX, Lo: RX)
46	INSPSW	O	Internal speaker switch
47	TEST_TX	O	UART_TX for test
48	TEST_RX	I	UART_RX for test
49	VCAP_1	-	2.2uF
50	VDD4	-	33MD
51	CML_CSN	O	Chip select for baseband IC
52	CML_SCLK	O	SCLK for baseband IC
53	CML_CDATA	O	Command for baseband IC
54	CML_RDATA	I	REPLY for baseband IC
55	FM_RSTN	O	Hardware reset for FM IC
56	FM_CSN	O	Chip select for FM IC
57	FM_SCLK	O	Clock for FM IC
58	FM_SDATA	I/O	Data I/O for FM IC
59	PTT	I	PTT key
60	PF1	I	Programmable function key input 1
61	PF2	I	Programmable function key input 2
62	FM_PDN	O	Power down port for LDO of FM IC
63	EN1	I	Encoder input 1
64	EN3	I	Encoder input 3
65	EN2	I	Encoder input 2
66	EN4	I	Encoder input 4
67	OPT3	I/O	Option port 3
68	TXD	O	Serial data to MIC jack
69	RXD	I	Serial data from MIC jack
70	PLL_UL	I	Unlock voltage for PLL
71	OPT2	I/O	Option port 2
72	SWDIO	I/O	SWDIO for SWD
73	VCAP_2	-	2.2uF
74	VSS3	-	GND
75	VDD5	-	33MD
76	SWCLK	I/O	SWCLK for SWD
77	CML_SSOUT	I	SPI chip select for baseband IC
78	CML_EPSCLK	I	Clock for SPI

Pin No.	Name	I/O	Function
79	CML_EPSO	O	SPI output
80	CML_EPSI	I	SPI input
81	EEP_DATAI	I	Data input for EEPROM
82	EEP_DATAO	O	Data output to EEPROM
83	EEP_CS	O	Chip select for EEPROM
84	EEP_CLK	O	Clock for EEPROM
85	EEP_WP	O	Write protect for EEPROM
86	PLL_DATA	O	Data output for PLL
87	PLL_LE	O	Chip select for PLL
88	PLL_CLK	O	Clock for PLL
89	SWO	O	SWO for SWD
90	SRST	I	SRST for SWD
91	OPT5	I/O	Option port 5
92	OPT6	I/O	Option port 6
93	OPT7	I/O	Option port 7
94	NC	I	No connection
95	GPIO6	I/O	No connection
96	GPIO7	I/O	No connection
97	INT	I	Interrupt
98	CML_IRQN	I	IRQ for baseband IC
99	PDR_ON	-	GND
100	VDD6	-	33MD

2.3   COMPONENTS DESCRIPTION

2.3.1   TX-RX unit (X57-8510-XX)

Ref. No.	Part Name	Description
IC2	IC	PLL System
IC3	IC	DC amplifier (CV)
IC200	IC	DC amplifier (APC)
IC400	IC	IF System
IC600	IC	Voltage detector (INT)
IC601	IC	Voltage regulator (50M)
IC602	IC	Voltage regulator (50C)
IC603	IC	Voltage regulator (50V)
IC604	IC	Voltage regulator (33M)
IC605	IC	Voltage detector (Reset)
IC606	IC	Voltage regulator (33R)
IC700	IC	EEPROM
IC703	IC	Voltage regulator (33B)
IC704	IC	DC amplifier (BPF tune)
IC705	IC	Baseband system
IC706	IC	DC amplifier (VOX)
IC707	IC	AF power amplifier (EXT)
IC708	IC	AF amplifier
IC709	IC	AF power amplifier (INT)

Ref. No.	Part Name	Description	Ref. No.	Part Name	Description
IC710	IC	MCU	Q715	Transistor	Q714 control
IC713	IC	Clock buffer amplifier	Q716	FET	AF switch (EXT SP)
IC715	IC	Voltage regulator (33MD)	D4	Variable capacitance diode	RX VCO tune
IC717	IC	Audio buffer amplifier	D5	Variable capacitance diode	TX VCO tune
Q1	FET	DC switch (Assist)	D7	Variable capacitance diode	RX VCO tune
Q2	Transistor	PLL Fin amplifier	D9	Variable capacitance diode	TX VCO tune
Q3	FET	Q1 control	D10	Diode	Speed up
Q4	Transistor	Rippler filter	D11	Variable capacitance diode	TX assist
Q5	FET	RX VCO	D12	Variable capacitance diode	RX assist
Q6	FET	TX VCO	D13	Variable capacitance diode	Modulation
Q7	FET	Q8 control	D14, 15	Diode	TX/RX switch
Q8	FET	TX/RX VCO DC switch	D200	Zener diode	Over voltage protection
Q9	Transistor	Buffer amplifier	D201-204	Diode	Antenna switch
Q10	Transistor	RF amplifier	D400-404	Variable capacitance diode	RX BPF tuning
Q201	Transistor	Pre-drive amplifier	D405	Variable capacitance diode	RX notch tune
Q203	Transistor	Discharge switch	D600	Diode	Voltage drop
Q205	FET	APC control switch	D601	LED	Green (BUSY)
Q206	FET	Drive amplifier	D602	LED	Red (TX)
Q207	Transistor	DC switch (APC)	D603	Diode	Voltage prevention
Q208	FET	Final amplifier	D604	LED	Blue
Q209	FET	DC switch (Power control)	D700, 701	Diode	AF detector (MIC)
Q210	Transistor	DC switch (Power control)	D702	Diode	AF detector (VOX)
Q400	Transistor	Tripler (2nd local)	D703	Diode	Limiter
Q403	Transistor	1st IF amplifier			
Q404	FET	1st mixer			
Q405	FET	RX RF amplifier			
Q600	Transistor	DC switch (BUSY LED)			
Q601	FET	DC switch (50T)			
Q602	FET	DC switch (50R)			
Q603	FET	DC switch (MIN VOL)			
Q604	Transistor	DC switch (RED LED)			
Q605	Transistor	DC switch (BLUE LED)			
Q606	FET	DC switch (33MS)			
Q703	FET	Level shift (TXD)			
Q704	Transistor	MIC mute switch			
Q705	Transistor	MIC AGC amplifier			
Q706	Transistor	MIC AGC amplifier			
Q707	FET	Level shift (RXD)			
Q708	Transistor	DC switch (EXT PTT)			
Q709	Transistor	Q710 control			
Q710	Transistor	DC switch (IC707 SB)			
Q711	Transistor	Q715 control			
Q712	Transistor	Pop noise mute control			
Q713	FET	AF switch (EXT SP)			
Q714	Transistor	DC switch (IC709 SB)			

SECTION 3
DISASSEMBLY

3.1 Precautions for Disassembly

3.1.1 Removing the Case Assembly from the Chassis
(1) Remove the selector knob <1> and volume knob <2>.
(2) Remove the two screws <3>.
(3) Lift and remove the chassis from the case assembly <4>.
(Use a flat-blade screwdriver to easily lift the chassis.)
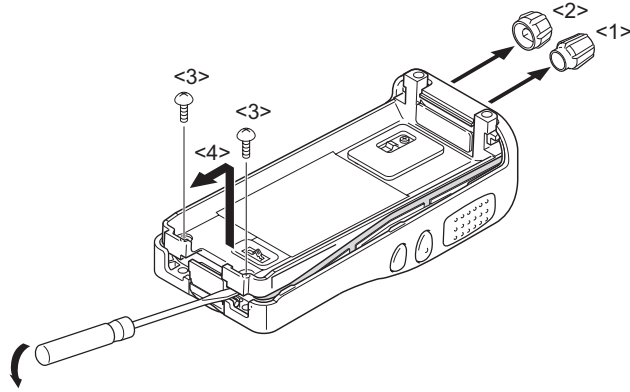
3.1.2 Removing the Holder Assembly from the Chassis
(1) Remove the packing <5> from the SMA, volume and selector.
(2) Remove the holder from the chassis.

Note:
Take care to not cut the speaker and microphone leads.
(3) Detach the solder of the speaker and microphone leads from the PCB beforehand.
(4) Remove the packing <6> from the SP/MIC jack of the TX-RX unit.
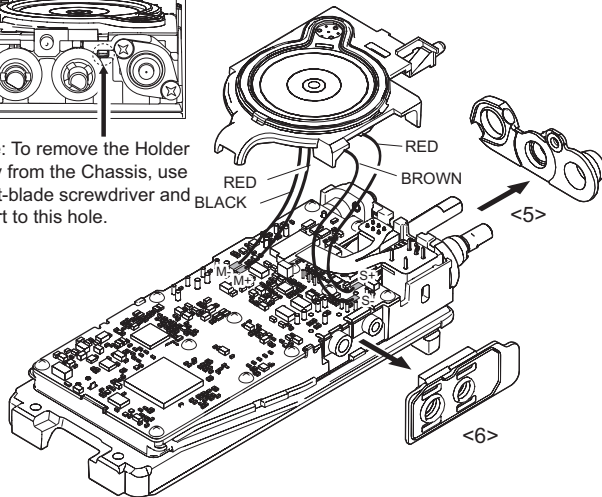
3.1.3 Removing the TX-RX unit from the Chassis
(1) Remove the twelve screws <7> fixing the TX-RX unit.
(2) Remove the solder of the antenna terminal with a soldering iron <8>.
(3) Remove the solder of the positive terminal with a soldering iron <9>.

Note:
You can remove the TX-RX unit from the chassis without removing the solder at the positive terminal. However, in this case, you cannot attach the packing (G53-2218-03) that is on the positive terminal to the chassis during assembly. So, we advise you to remove the solder on the positive terminal first.
(4) Remove the FPC from the flat cable connector <10>.
(5) Lift and remove the TX-RX unit from the chassis <11>.
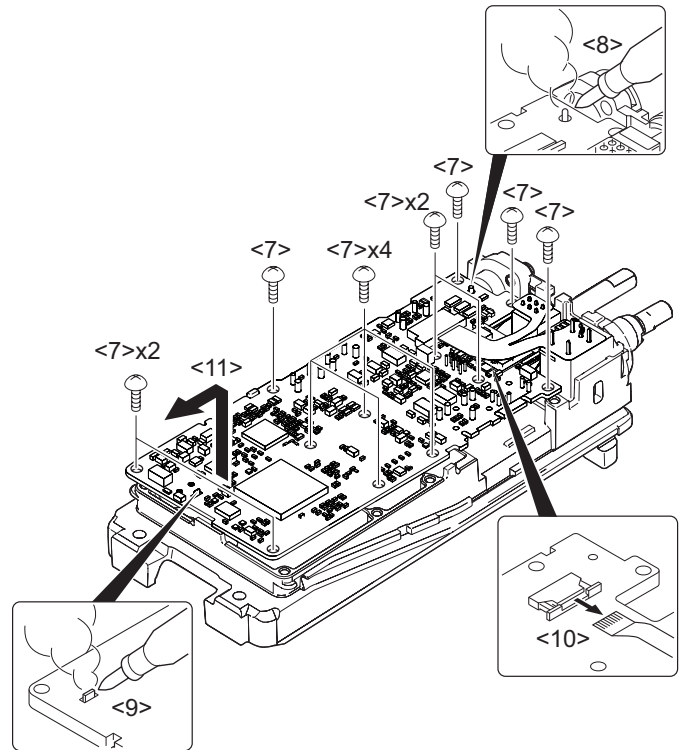
3.1.4 Removing the Battery Release Lever from the Case Assembly
(1) Press the upper part of the lever toward the inside of the case assembly. One side of the shaft will be removed <1>.
(2) Lift and remove the battery release lever from the case assembly <2>.

Note:
Scratch and widen the glue hole if you are having difficulty removing the other end of the shaft. No glue is required when you reassemble the battery release lever.
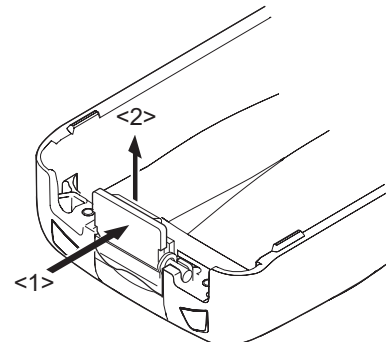
3.2 Precautions for Reassembly

3.2.1 Attaching the Battery Release Lever to the Case Assembly

(1) Insert one side of the shaft into the hole at the lever fitting section on the case assembly <1>.

Caution:

Position the thin spring (G01-4543-14) above the two tabs of the lever.

(2) Tilt the battery release lever slightly forward <2>, so that the thick spring (G01-4542-04) is positioned below the case surface.

(3) With the thick spring positioned below the case surface, attach the other side of the shaft to the case assembly by pressing the battery release lever <3> until it snaps into place <4>.

Caution:

Be careful to not tilt the battery release lever too far forward.

If the battery release lever is pushed in this state where the two tabs come below the case surface, there is a possibility of damaging the two tabs.
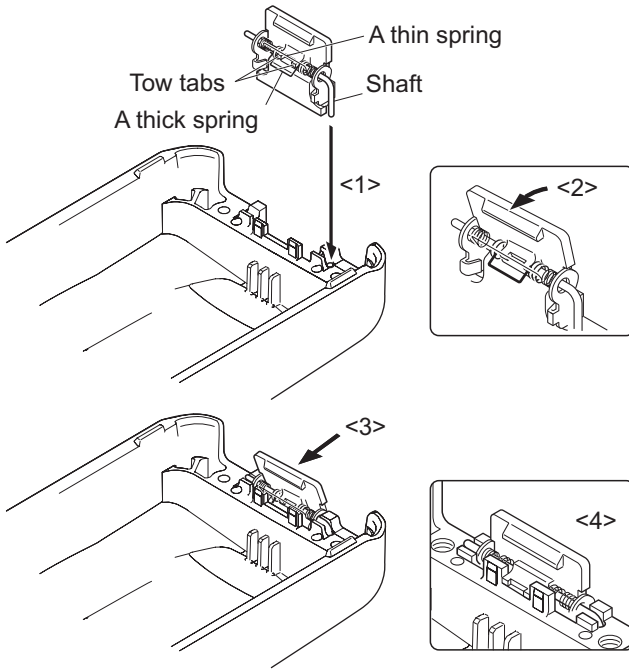
3.2.2 Assembling the Battery Release Lever

(1) Place the lever <2> onto the stopper <1>.

(2) Place the thick spring <3> onto the lever.

(3) Hook the right and left ends of the thin spring <4> onto the tabs of the stopper, then place the thin spring onto the lever <5>.

(4) Slide the shaft through the hole of the stopper and lever <6>.
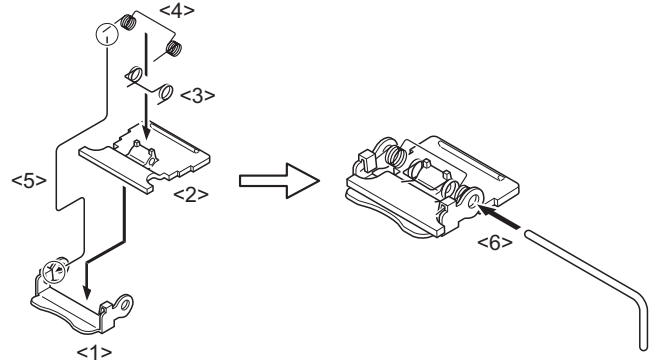
3.2.3 Attaching the Positive Terminal to the Chassis

Always attach the positive terminal to the chassis using the following procedures, before mounting the TX-RX unit onto the chassis.

(1) Remove the holder assembly <2> from the packing <1> of the positive terminal.

(2) Mount the packing of the positive terminal into the chassis hole <3>.

(3) Mount the holder assembly into the packing of the positive terminal <4>.
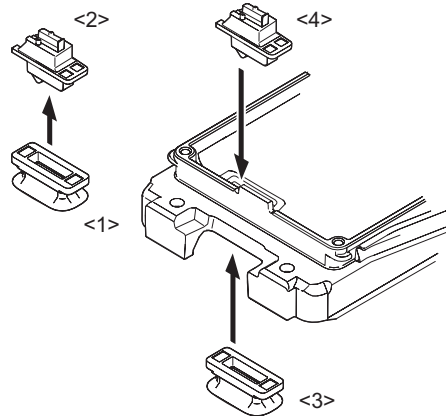
3.2.4 Mounting the Chassis to the Case Assembly

(1) Confirm that the waterproof packing attached to the circumference of the chassis is securely inserted in the groove of the chassis <1>.

(2) Insert the upper part of the chassis into the case assembly <2>.

(3) Press the chassis <3> and the case assembly together to attach them.

> **Caution:**
> If the packing of the SP/MIC is not at the correct position after attaching the chassis to the case assembly, reposition the packing with your fingers.
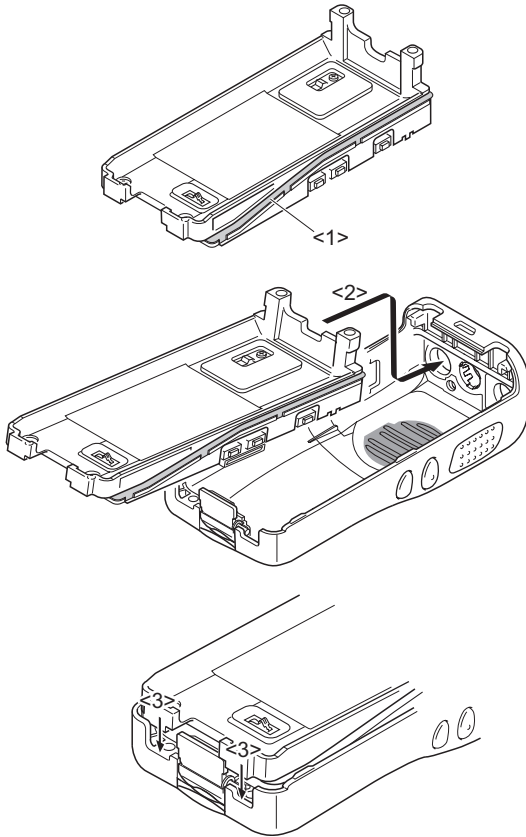
3.2.5 Attaching the Antenna Receptacle to the Chassis

Screw the antenna receptacle to the chassis in the order shown in the drawing so that the antenna receptacle comes to the center of the case hole.

Tighten this screw second.

Tighten this screw first.
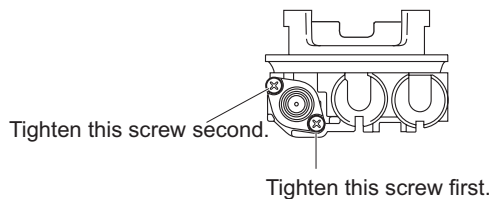
3.2.6 The Nuts of the Volume Knob and Channel Knob

Note that the shape, color and height of the nuts of the volume knob and channel knob are different from one another. (The nut of volume knob is silver, and the nut of channel knob is gold.)

Use the following jig when removing the nuts of the volume knob and channel knob:

• Jig (Part No.: W05-1012-00)

| for Volume knob (Long) | for Selector knob (Short) |
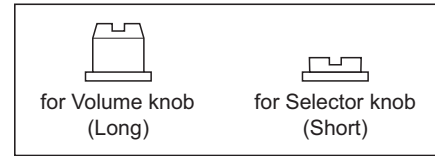
SECTION 4
ADJUSTMENT

4.1 Test Equipment Required for Alignment

Test Equipment	Major Specifications	
1. Standard Signal Generator (SSG)	Frequency Range	100 to 520MHz
	Modulation	Frequency modulation and external modulation
	Output	-127dBm/0.1μV to greater than -47dBm/1mV
2. Power Meter	Input Impedance	50Ω
	Operation Frequency	100 to 520MHz
	Measuring Range	Vicinity of 10W
3. Deviation Meter	Frequency Range	100 to 520MHz
4. Digital Volt Meter (DVM)	Measuring Range	10mV to 10V DC
	Input Impedance	High input impedance for minimum circuit loading
5. Oscilloscope		DC through 30MHz
6. High Sensitivity Frequency Counter	Frequency Range	10Hz to 1000MHz
	Frequency Stability	0.2ppm or less
7. Ammeter		5A
8. AF Volt Meter (AF VM)	Frequency Range	50Hz to 10kHz
	Voltage Range	1mV to 10V
9. Audio Generator (AG)	Frequency Range	50Hz to 5kHz or more
	Output	0 to 1V
10. Distortion Meter	Capability	3% or less at 1kHz
	Input Level	50mV to 10Vrms
11. 8Ω Dummy Load		Approx. 8Ω, 3W
12. Regulated Power Supply		5V to 10V, approx. 3A Useful if ammeter equipped

■**Antenna connector adapter**
The antenna connector of this transceiver uses an SMA terminal.
Use an antenna connector adapter [SMA(f) - BNC(f) or SMA(f) - N(f)] for adjustment. (The adapter is not provided as an option, so buy a commercially-available one.)

■**Repair Jig (Chassis)**
Use jig (Chassis) for repairing the transceiver. Place the TX-RX unit on the jig and fit it with screws.
The jig facilitates the voltage check and protects the final amplifier FET when the voltage on the flow side of the TX-RX unit is checked during repairs.

■**Battery Jig (W05-1011-00)**
Connect the power cable properly between the battery jig installed in the transceiver and the power supply, and be sure output voltage and the power supply polarity prior to switching the power supply ON, otherwise over voltage and reverse connection may damage the transceiver, or the power supply or both.

Note:
When using the battery jig, you must measure the voltage at the terminals of the battery jig. Otherwise, a slight voltage drop may occur within the power cable, between the power supply and the battery jig, especially while the transceiver transmits.

+ Terminal (Red)
- Terminal (Black)

Schematic diagram
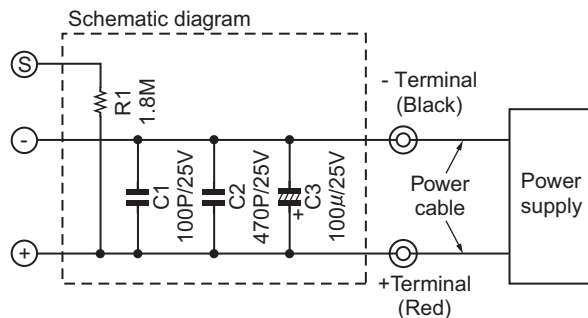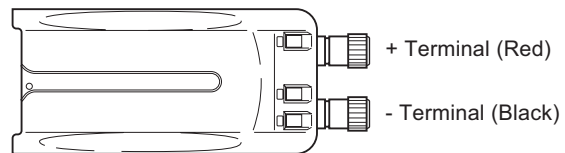
4.2 Frequency and Signaling

The transceiver has been adjusted for the frequencies shown in the following table. When required, readjust them following the adjustment procedure to obtain the frequencies you want in actual operation.

■Test frequency

CH	K, M		K2, P, M2, M3	
	RX (MHz)	TX (MHz)	RX (MHz)	TX (MHz)
1	485.05000	485.10000	435.05000	435.10000
2	450.05000	450.10000	400.05000	400.10000
3	519.95000	519.90000	469.95000	469.90000
4	485.00000	485.00000	435.00000	435.00000
5	485.20000	485.20000	435.20000	435.20000
6	485.40000	485.40000	435.40000	435.40000
7~16	-	-	-	-

CH	K3	
	RX (MHz)	TX (MHz)
1	375.05000	375.10000
2	350.05000	350.10000
3	399.95000	399.90000
4	375.00000	375.00000
5	375.20000	375.20000
6	375.40000	375.40000
7~16	-	-

■Analog mode signaling

No.	RX	TX
1	None	None
2	None	20 Hz Square Wave
3	QT 67.0 Hz	QT 67.0 Hz
4	QT 151.4 Hz	QT 151.4 Hz
5	QT 210.7 Hz	QT 210.7 Hz
6	QT 254.1 Hz	QT 254.1 Hz
7	DQT D023N	DQT D023N
8	DQT D754I	DQT D754I
9	DTMF Decode (Code: 159D)	DTMF Encode (Code: 159D)
10	None	DTMF (Code: 9)
11	None	MSK (1010..)
12	FleetSync: 100-1000	FleetSync: 100-1000
13	None	Single Tone: 1000 Hz
14	2-tone Decode: A: 304.7 Hz B: 3106.0 Hz	2-tone Encode: A: 304.7 Hz B: 3106.0 Hz
15	None	DTMF Tone: 1477 Hz
16	Single Tone: 979.9 Hz	Single Tone: 979.9 Hz
17	None	MSK PN9
18	None	DTMF (Code: 3)

■NXDN mode signaling

No.	RX	TX
1	RAN1	RAN1
2	None	PN9
3	RAN1	Maximum Deviation Pattern
4	FSW+PN9	Mod set-up *1

RAN: Radio Access Number
PN9: Pseudo-Random Pattern (for production only)
*1: To output 150Hz square wave (for production only)

4.3 Preparations for Tuning the Transceiver

Before attempting to tune the transceiver, connect the unit to a suitable power supply.
Whenever the transmitter is tuned, the unit must be connected to a suitable dummy load (i.e. power meter).
The speaker output connector must be terminated with a 8Ω dummy load and connected to an AC voltmeter and an audio distortion meter or a SINAD measurement meter at all times during tuning.

■5 reference level adjustments frequency

TEST CH	K, M		K2, P, M2, M3	
	RX (MHz)	TX (MHz)	RX (MHz)	TX (MHz)
Low	450.05000	450.10000	400.05000	400.10000
Low'	467.55000	467.60000	417.55000	417.50000
Center	485.05000	485.10000	435.05000	435.10000
High'	502.55000	502.60000	452.55000	452.50000
High	519.95000	519.90000	469.95000	469.90000

TEST CH	K3	
	RX (MHz)	TX (MHz)
Low	350.05000	350.10000
Low'	362.55000	362.60000
Center	375.05000	375.10000
High'	387.55000	387.60000
High	399.95000	399.90000

4.4 Adjustment Points

TX-RX UNIT
Component side view

CVIN
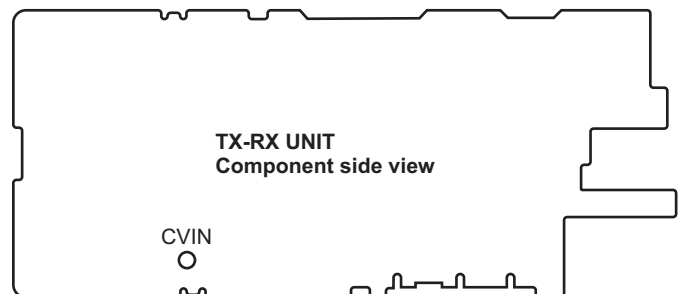
4.5 Common Section

Item	Condition	Measurement			Adjustment			Specifications /Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. Setting	1) Power supply voltage DC power supply terminal : 7.5V							
2. Receive Assist voltage	1) Auto tuning ***Note 1**					FPU		4.0 ± 0.1V
	2) CH: Low ***Note 2**	DVM	TX-RX	CVIN			Check	0.6V or more (at CVIN terminal)
3. Transmit Assist voltage	1) Auto tuning ***Note 1**					FPU		4.0 ± 0.1V
	2) CH: Low ***Note 2**	DVM	TX-RX	CVIN			Check	0.6V or more (at CVIN terminal)

*Note 1:
During test mode, click the [Tune Assist Voltage] button in test mode dialog box, then start automatic adjustment of the Receive/Transmit assist voltage.

*Note 2:
The CV voltage checking of CH:2 (Default value) test frequency must be performed in test mode.

4.6 Transmitter Section

Item	Condition	Measurement			Adjustment			Specifications /Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. Frequency	(1)TEST CH: Center PTT ON	Frequency counter		ANT		FPU	435.100MHz (K2, P, M2, M3) 485.100MHz (K, M) 375.100MHz (K3)	±50Hz
2. High Transmit Power	(1)TEST CH: Low, Low', Center, High', High (5 point) (2)Baterry Terminal voltage:7.5V (3)PTT ON	Power meter Ammeter		ANT		FPU	5.0W	±0.1W 2.0A or less
3. Low Transmit Power	(1)TEST CH: Low, Center, High (3 point) (2)Baterry Terminal voltage:7.5V (3)PTT ON	Power meter Ammeter		ANT		FPU	1.0W	±0.1W 1.0A or less

4. DQT Balance 1
*Note 3
	(1)TEST CH: Low, Low', Center, High', High (5 point)
	(2)Deviation meter filter
	   LPF: 3kHz
	   HPF: OFF
	(3)PTT ON
		Deviation meter
		Oscilloscope
				ANT		FPU	Make the demodulation wave into square wave.	⊓_⊔⊓_⊔

4. DQT Balance 2
*Note 3
	(1)TEST CH: Low, Low', Center, High', High (5 point)
	(2)Deviation meter filter
	   LPF: 3kHz
	   HPF: OFF
	(3)PTT ON
		Deviation meter
		Oscilloscope
				ANT		FPU	The Deviation of 20Hz frequency is-fixed.
							Change the 1kHz adjustment value to become the same deviation of 20Hz within the specified range.
								±15Hz

5. Maximum Deviation (Analog Narrow)	(1)TEST CH: Low, Low', Center, High', High (5 point)
	(2)Deviation meter filter
	   LPF: 15kHz
	   HPF: OFF
	(3)PTT ON
		Deviation meter
		Oscilloscope
				ANT		FPU	2.0kHz (According to larger +, -)	±50Hz
								Note:
								FPU auto input 1kHz/150mV

Item	Condition	Measurement			Adjustment			Specifica-tions/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
6. Maximum Deviation (NXDN Very Narrow) ***Note 4**	(1)TEST CH: Low, Low', Center, High', High (5 point) (2)Deviation meter filter　LPF: 15kHz　HPF: OFF (3)PTT ON	Deviation meter Oscillo-scope		ANT		FPU	1.337kHz	±50Hz
7. CW ID Devi-ation (NXDN Very Narrow) ***Note 4**	(1)TEST CH: Center (2)Deviation meter filter　LPF: 15kHz　HPF: OFF (3)PTT ON	Deviation meter Oscillo-scope		ANT		FPU	1.00kHz	±100Hz
8. DQT Deviation (Analog Nar-row)	(1)TEST CH: Center (2)Deviation meter filter　LPF: 3kHz　HPF: OFF (3)PTT ON	Deviation meter Oscillo-scope		ANT		FPU	0.35kHz	±40Hz
9. QT Deviation (Analog Nar-row)	(1)TEST CH: Center (2)Deviation meter filter　LPF: 3kHz　HPF: OFF (3)PTT ON	Deviation meter Oscillo-scope		ANT		FPU	0.35kHz	±40Hz
10. DTMF Deviation (Analog Nar-row)	(1)TEST CH: Center (2)Deviation meter filter　LPF: 15kHz　HPF: OFF (3)PTT ON	Deviation meter Oscillo-scope		ANT		FPU	1.5kHz	±50Hz
11. MSK Deviation (Analog Nar-row)	(1)TEST CH: Center (2)Deviation meter filter　LPF: 15kHz　HPF: OFF (3)PTT ON	Deviation meter Oscillo-scope		ANT		FPU	1.5kHz	±50Hz

*Note 3:
　Only 1 DQT Balance needs to be adjusted (either DQT Balance 1 or DQT Balance 2).

*Note 4:
　For the adjustment of the Maximum Deviation (NXDN Very Narrow) and CW ID Deviation (NXDN Very Narrow).
　After adjusting the DQT Balance and Maximum Deviation (Analog), it is necessary to adjust the Maximum Deviation (NXDN Very Narrow) and CW ID Deviation (NXDN Very Narrow).

4.7　Receiver Section

Item	Condition	Measurement			Adjustment			Specifica-tions/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. RX Sensitivity (Semiautomatic) ***Note 5**	(1)TEST CH: Low, Center, High (3 point) (2)SSG output: -90dBm (7.08uV)　AF Freq　: 1kHz　Mod Dev : ±1.5kHz	SSG Oscilloscope Audio Analyzer		ANT		FPU	Press [Start] (Auto tuning)	
2. Open Squelch 5 (Analog Narrow)	(1)TEST CH: Low, Center, High (3 point) (2)SSG output: -121dBm (0.2uV)　AF Freq　: 1kHz　Mod Dev : ±1.5kHz	SSG Oscilloscope Audio Analyzer		ANT		FPU	Press [Start] (Auto tuning)	
2. Open Squelch 5 (NXDN Very Narrow)	(1)TEST CH: Low, Center, High (3 point) (2)SSG output: -124dBm (0.14uV)　AF Freq　: 400Hz　Mod Dev : ±1.1kHz	SSG Oscilloscope Audio Analyzer		ANT		FPU	Press [Start] (Auto tuning)	

Item	Condition	Measurement			Adjustment			Specifica-tions /Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
3. Tight squelch (Analog Narrow)	(1)TEST CH: Low, Center, High (3 point) (2)SSG output : -117dBm (0.32uV) (K,K2,P,M,M2,M3) -116dBm (0.35uV) (K3) AF Freq : 1kHz Mod Dev : ±1.5kHz	SSG Oscilloscope Audio Analyzer		ANT		FPU	Press [Start] (Auto tuning)	
4. Low RSSI (Analog Narrow) ***Note 6**	(1)TEST CH: Low, Center, High (3 point) (2)SSG output: -120dBm (0.22uV) AF Freq : 1kHz Mod Dev : ±1.5kHz	SSG Oscilloscope Audio Analyzer		ANT		FPU	Press [Start] (Auto tuning)	
4. Low RSSI (NXDN Very Narrow) ***Note 6**	(1)TEST CH: Low, Center, High (3 point) (2)SSG output: -120dBm (0.22uV) AF Freq : 1kHz Mod Dev : ±1.5kHz	SSG Oscilloscope Audio Analyzer		ANT		FPU	Press [Start] (Auto tuning)	
5. High RSSI (Analog Narrow) ***Note 6**	(1)TEST CH: Low, Center, High (3 point) (2)SSG output: -80dBm (22.4uV) AF Freq : 1kHz Mod Dev : ±1.5kHz	SSG Oscilloscope Audio Analyzer		ANT		FPU	Press [Start] (Auto tuning)	
5. High RSSI (NXDN Very Narrow) ***Note 6**	(1)TEST CH: Low, Center, High (3 point) (2)SSG output: -80dBm (22.4uV) AF Freq : 1kHz Mod Dev : ±1.5kHz	SSG Oscilloscope Audio Analyzer		ANT		FPU	Press [Start] (Auto tuning)	

*Note 5:
    (1) Only RX Sensitivity (Semiautomatic) needs to be adjusted (RX Sensitivity does not need to be adjusted again).

*Note 6:
    (1) If Analog Narrow band RSSI tuning is selected, Analog Narrow band and NXDN Very Narrow will be adjusted with the same tuning value.
    (2) If NXDN Very Narrow RSSI tuning is selected, it will adjust for the NXDN Very Narrow band only.

SECTION 5
TROUBLESHOOTING

5.1 SYSTEM SET-UP

Frequency range (MHz)	RF power	Type
TX/RX 450~520	5.0W	NX-340 K, M NX-340(U) K
TX/RX 400~470	5.0W	NX-340 K2, P, M2, M3 NX-340(U) K2
TX/RX 350~400	5.0W	NX-340 K3

A personal computer, programming interface (KPG-22A/22U), and FPU (programming software) are required for programming. (The frequency, TX power HI/LOW, and signaling data are programmed for the transceiver.)
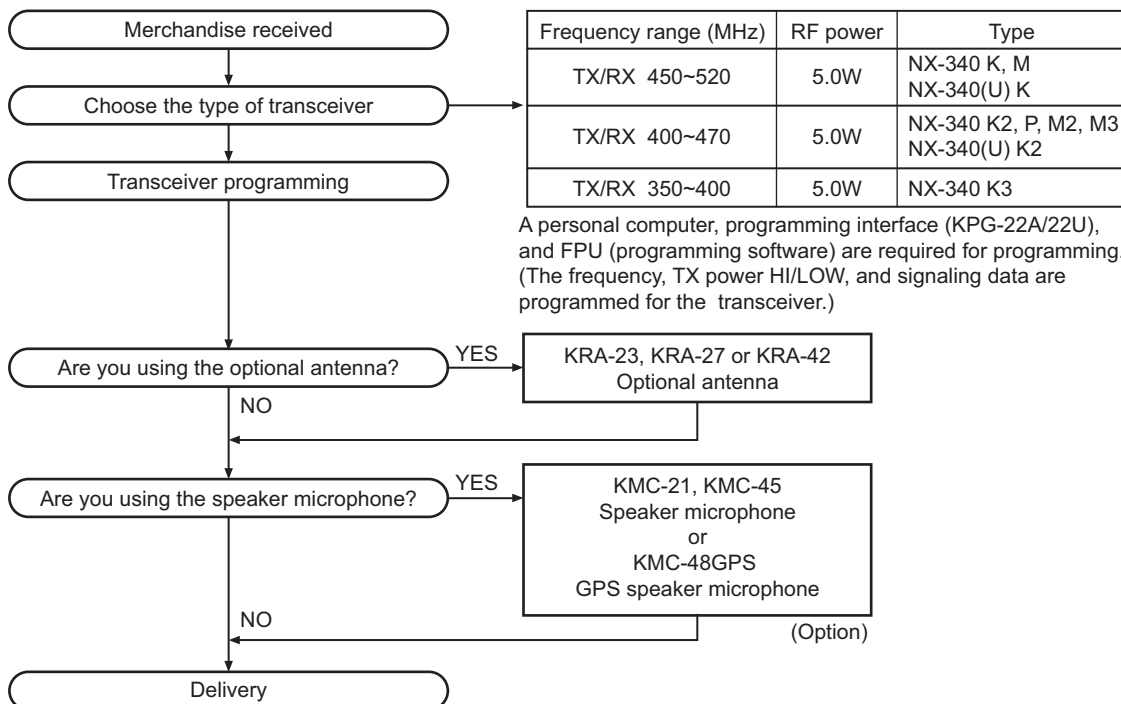
5.2 REALIGNMENT

5.2.1 Modes
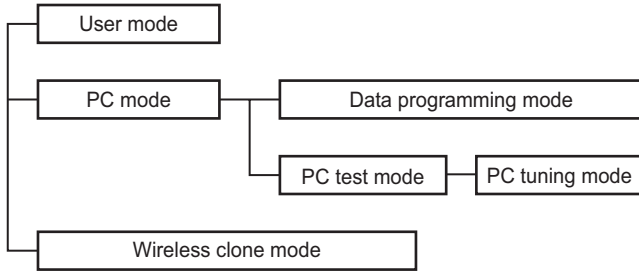
Mode	Function
User mode	For normal use.
PC mode	Used to communication between the transceiver and PC.
Data programming mode	Used to read and write frequency data and other features to and from the transceiver.
PC test mode	Used to check the transceiver using the PC. This feature is included in the FPU.
Wireless clone mode	Used to transfer programming data from one transceiver to another.

5.2.2 How to Enter Each Mode

Mode	Operation
User mode	Power ON
PC mode	Received commands from PC
Wireless clone mode	[PTT] + [Side2] + Power ON (Two seconds)

5.2.3 PC Mode

5.2.3.1 Preface

The transceiver is programmed by using a personal computer, a programming interface (KPG-22A/22U) and the FPU (programming software).

The programming software can be used with a PC. Figure 1 shows the setup of a PC for programming.
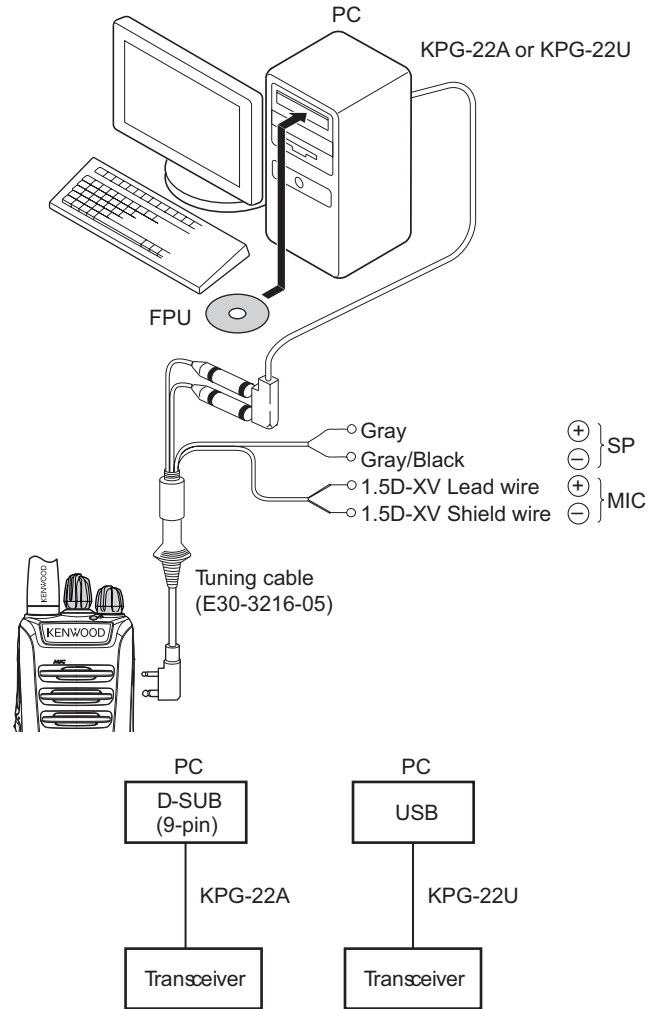
Fig.1

5.2.3.2 Connection procedure

(1) Connect the transceiver to the computer using the interface cable.

Note:
   You must install the KPG-22U driver in the computer to use the USB programming interface cable (KPG-22U).

(2) When the Power is switched on, you can immediately enter user mode. When the PC sends a command, the transceiver enters PC mode.
   When data is transmitting from the transceiver, the red LED lights.
   When data is being received by the transceiver, the green LED lights.

Note:
   • The data stored in the computer must match the "Model Name and Model Type" when it is written into the EEPROM.
   • Do not press the [PTT] key during data transmission or reception.

5.2.3.3 KPG-22A description (PC programming interface cable: Option)

The KPG-22A is required to interface the transceiver with the computer. It has a circuit in its D-sub connector (KPG-22A: 9-pin) case that converts the RS-232C logic level to the TTL level.

The KPG-22A connects the SP/MIC connector of the transceiver to the RS-232C serial port of the computer.

5.2.3.4 KPG-22U description (USB programming interface cable: Option)

The KPG-22U is a cable which connects to a USB port on a computer.

When using the KPG-22U, install the supplied CD-ROM (with driver software) in the computer. The KPG-22U driver runs under Windows XP, Vista, 7 or 8.

The latest version of the USB driver is available for download from the following URL:

http://www.kenwood.com/usb-com/
(This URL may change without notice.)

5.2.3.5 Programming software description

The FPU is the programming software for the transceiver supplied on a CD-ROM. This software runs under Windows XP, Vista, 7 or 8 on a PC. The software on this disk allows a user to program the transceiver via the Programming interface cable (KPG-22A/22U).

• Use the FPU that matches the market when you first set the market code and model name/frequency data to the service unit. A unit set by mistake cannot be restored.

• List of FPU for transceiver

Model	Type	FPU
NX-340	K, K2, K3, P, M, M2, M3	KPG-169D
NX-340(U)	K, K2	KPG-170D

5.2.3.6 Programming with a PC

If data is transferred to the transceiver from a PC with the FPU, the data for each set can be modified.

Data can be programmed into the EEPROM in RS-232C format via the SP/MIC jack.

In this mode, the PTT line operate as TXD and RXD data lines, respectively.

5.2.4 Wireless Clone Mode

5.2.4.1 Outline

"Wireless Clone Mode" copies the transceiver data to another transceiver.

The dealer can copy the transceiver data to another transceiver even without the use of a personal computer.

5.2.4.2 Example

The transceiver can copy the programming data to one or more transceivers via RF communication.

The clone source and clone target(s) must be in wireless clone mode.

5.2.4.3 Operation

(1) To switch the clone target(s) to Wireless Clone mode, press and hold the [PTT] and [Side2] keys while turning the transceiver power ON.

(2) Wait for 2 seconds. The LED will light orange and the transceiver will announce "Clone".

(3) Select a channel table number using the Side1 (increment channel table) and Side2 (decrement channel table) keys.

(4) To switch the clone source to wireless clone mode, press and hold the [PTT] and [Side2] keys while turning the transceiver power ON.

(5) Wait for 2 seconds. The LED will light orange and the transceiver will announce "Clone".

(6) Select the same channel table number as the clone target(s).

(7) Press [PTT] on the clone source to begin data transmission.

When the clone target starts to receive data, the LED will light green.

When the clone source finishes sending data, a "confirmation" tone will sound.

If data transmission fails while cloning, an "error" tone will sound from the target unit.

(8) If the cloning fails, no data will be available in the target unit when it is returned to User mode.

(9) When the cloning is successful, the target unit's "Scan" and "Key lock" functions will return to their default values (Scan = OFF, Key lock = OFF).

Note:
• The dealer can clone data to two or more transceivers by repeating the above procedures.
• If the transceiver's wireless clone Mode is configured as "Disabled", it cannot enter Clone mode.
• The table shown in the next page covers the frequencies used for wireless cloning.
• Wireless clone mode cannot be entered in battery low state.
• A unit cannot be a "Source Unit" if it is not programmed. If [PTT] is pressed, an "error" tone will sound.
• The language available is only English.
• Once a unit is set to be the source, it cannot be a target after the data has been transmitted. This protects the data in the source unit.
• Electronic interface may cause a failure in data transfer during Wireless Cloning, such as when waveforms or electromagnetic fields are being performed at the workbench.
• **Wireless clone mode can be used ONLY by authorized service personnel.**
• **The wireless clone mode setting must be configured as "Disable" before being delivered to the end-user.**
• **To clone, replace the antenna from both the source transceiver and the target transceiver with a dummy load.**
• **The transmit output power is automatically set to Low in clone mode.**
• **Wireless clone mode does not function if Read Authorization Password or Overwrite Password has been configured in Data Password.**

- **Clone frequency table**

No.	K, M	K2, P, M2, M3	K3
	Operating frequency 450~520 (MHz)	Operating frequency 400~470 (MHz)	Operating frequency 350~400 (MHz)
1	450.000	400.000	350.000
2	452.000	402.000	351.000
3	454.000	404.000	352.000
4	456.000	405.000	353.000
5	458.000	408.000	354.000
6	460.000	410.000	355.000
7	462.000	412.000	356.000
8	464.000	414.000	357.000
9	466.000	416.000	358.000
10	469.000	418.000	359.000
11	470.000	419.000	360.000
12	472.000	422.000	361.000
13	474.000	424.000	362.000
14	476.000	426.000	363.000
15	478.000	428.000	364.000
16	480.500	430.000	365.000
17	482.000	432.000	366.000
18	484.000	434.000	367.000
19	486.000	436.000	368.000
20	488.000	438.000	369.000

5.3 Replacing TX-RX Unit

■TX-RX unit Information

Model Name	Original TX-RX unit Number	For Service TX-RX unit Number
NX-340 K	X57-8510-10	X60-4130-10
NX-340 K2	X57-8510-11	X60-4130-12
NX-340 K3	X57-8510-12	X60-4130-14
NX-340 P	X57-8510-11	X60-4131-01
NX-340 M	X57-8510-10	X60-4130-21
NX-340 M2	X57-8510-11	X60-4130-22
NX-340 M3	X57-8510-11	X60-4130-23
NX-340U K	X57-8510-10	X60-4130-11
NX-340U K2	X57-8510-11	X60-4130-13

■ Supplied Accessories of "Service TX-RX unit"

Item (Including Parts Number)	Quantity
TX-RX Unit (X60-413)	1
Model Name Plate	1

■ "Service TX-RX unit" Data

The following data is written on the service TX-RX unit:

Data Type	Description
Firmware	NX-240/340 Firmware
FPU Data (PC programming mode)	X60-413 (NX-340/340U) K type data. X60-413 (NX-340) M type data. X60-413 (NX-340) P type data.
KENWOOD ESN	Model name: NX-340 or NX-340U Type: K, M or P The same number as the Model Name Plate label is written.
NXDN ESN	The same number as the Model Name Plate label is written.

■ After Changing the PCB

(1) Using the KPG-169D (NX-340) / KPG-170D (NX-340U), select your desired item (Model Name and Frequency) from the Model> Product Information menu, then use Program> Write Data to the Transceiver to write the FPU data (PC Programming mode). When writing to the transceiver, a Warning Message, corresponding to the item selected, appears. Click [OK] to continue writing the data.

(2) Enter Program> Test Mode, then adjust the various adjustment data (PC Test Mode) as described in the "SECTION 4 ADJUSTMENT".

(3) Attach the new labels corresponding to the new printed circuit board. (Refer to the images below for label placement.)

(4) If necessary, write the FPU data used by the customer with the KPG-169D (NX-340) / KPG-170D (NX-340U).

Note:

- When a new printed circuit board is used, the KENWOOD ESN changes, as does the Transceiver Information display of the KPG-169D (NX-340) / KPG-170D (NX-340U), but this does not have any effect on the operation of the transceiver.
- If changing to the original ESN, please contact our service center.

■ Model Name Plate Label Layout

KENWOOD ESN
NXDN ESN

Model Name Plate Label
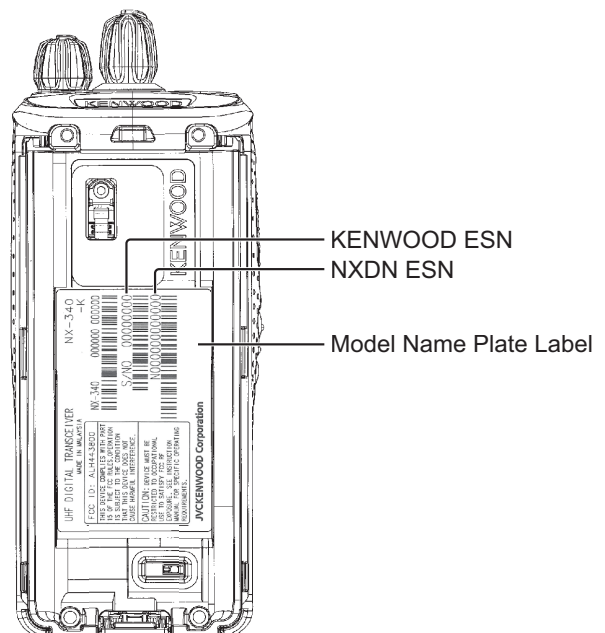
5.4 TERMINAL FUNCTION

5.4.1 TX-RX unit (X57-8510-XX)

Pin No.	Name	I/O	Function
			CN600
1	VOLOUT	O	Volume output to audio amplifier
2	VOLIN	I	Volume level input for audio control
3	SB	I	Power input after power switch
4	SB	I	Connect to pin 3
5	B	O	Power output after passing through the fuse
6	B	O	Connect to pin 5
7	VOLGND	-	GND for volume level
8	EN2	I	Rotary switch input
9	EN4	I	Rotary switch input
10	GND	-	GND
11	EN3	I	Rotary switch input
12	EN1	I	Rotary switch input

5.4.2 SP/MIC Connector Specification

Pin No.	Name	I/O	Signal Type	Function
1	PTT/RXD	I	Digital	PTT/RXD input
2	MICIN	I	Analog	External MIC input
3	MICO	O	Analog	Internal MIC output
4	OPTDET	I	Digital	External option detection
5	50V	O	Power	DC 5V output
6	AE	-	GND	GND
7	TXD	O	Digital	TXD output
8	NC	-	-	No connection
9	NC	-	-	No connection
10	SPO	O	Analog	Internal audio output

SCHEMATIC DIAGRAM

■ TX-RX UNIT (X57-8510-10 (NX-340_K, NX-340(U)_K, NX-340_M), X57-8510-11 (NX-340_K2, NX-340(U)_K2, NX-340_M2, NX-340_M3, NX-340_P), X57-8510-12 (NX-340-K3))

TX-RX UNIT (X57-851X-XX)

PLL SYSTEM

TX(UHF)

RX(UHF)

0-10(F1) NX-340(K,M), NX-340(U)(K)
0-11(F2) NX-340K2,P,M2,M3), NX-340(U)(K2)
0-12(F3) NX-340(K3)

MEMO

PRINTED CIRCUIT BOARD

■ **TX-RX UNIT (X57-8510-10 (NX-340_K, NX-340(U)_K, NX-340_M), X57-8510-11 (NX-340_K2, NX-340(U)_K2, NX-340_M2, NX-340_M3, NX-340_P), X57-8510-12 (NX-340_K3))**

--- Component side view (J79-0401-19) ---

● **ADDRESS TABLE OF BOARD PARTS**
 Each address may have an address error by one interval.

A-1C Side / Y axis / X axis

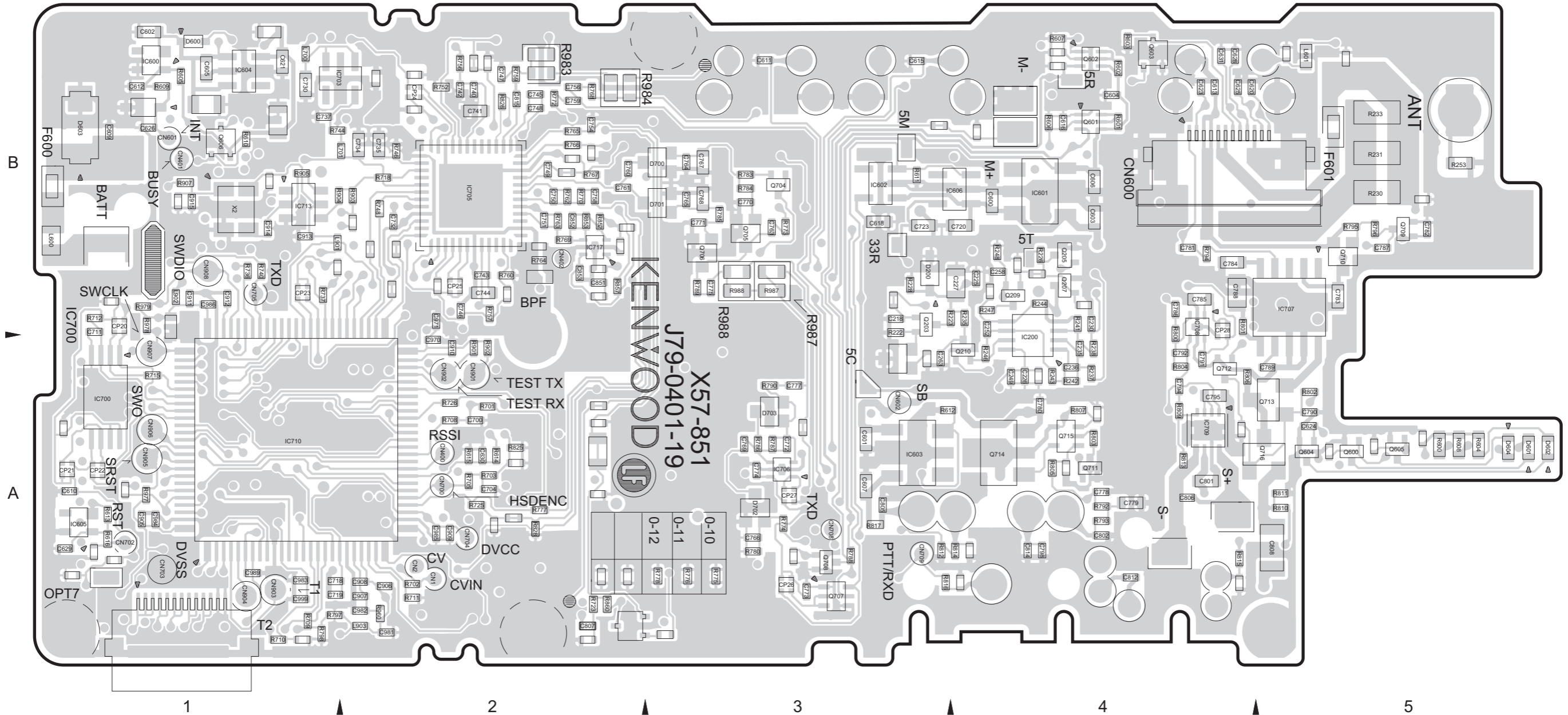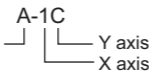| REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
IC		**TRANSISTOR**		Q711	A-4A	**RESISTOR**		R601	A-4B	R708	A-2A	R760	A-2B	R785	A-3B	R807	A-4A	R904	A-1B	C249	A-4A	C620	A-4B	C735	A-2B	C763	A-3B	C784	A-4B	C815	A-2B	C984	A-1A	L600	A-1A
IC200	A-4A	Q203	A-3B	Q712	A-4A	R222	A-3B	R602	A-4B	R709	A-1A	R762	A-2B	R786	A-3A	R809	A-4A	R905	A-1B	C252	A-4B	C621	A-1B	C737	A-1B	C764	A-3B	C785	A-4B	C851	A-2B	C985	A-2A	L601	A-5B
IC600	A-1B	Q205	A-4B	Q713	A-5A	R223	A-4B	R603	A-4B	R710	A-1A	R763	A-2B	R787	A-3A	R810	A-5A	R907	A-1B	C258	A-4B	C623	A-4B	C740	A-2B	C765	A-3B	C786	A-4B	C852	A-2B	C986	A-1B	L700	A-1B
IC601	A-4B	Q207	A-4B	Q714	A-4A	R226	A-4B	R604	A-5A	R711	A-1A	R764	A-2B	R788	A-3A	R811	A-5A	R960	A-2A	C263	A-3A	C624	A-5A	C741	A-2B	C766	A-3A	C787	A-5B	C853	A-2B	C989	A-1A	L701	A-2B
IC602	A-3B	Q209	A-4B	Q715	A-4A	R228	A-3B	R605	A-4B	R712	A-1A	R765	A-2B	R789	A-3B	R812	A-3A	R977	A-1A	C600	A-1B	C625	A-1B	C742	A-2B	C767	A-3B	C788	A-4B	C905	A-1A	C999	A-1A	L901	A-1B
IC603	A-3A	Q210	A-4A	Q716	A-5A	R230	A-5B	R606	A-4B	R715	A-1A	R766	A-2B	R790	A-4A	R813	A-3A	R978	A-1A	C601	A-3A	C626	A-1B	C743	A-2B	C768	A-3B	C789	A-5A	C906	A-2A			L902	A-1B
IC604	A-1B	Q600	A-5A			R231	A-5B	R607	A-4B	R718	A-1B	R767	A-2B	R792	A-4A	R814	A-4A	R979	A-1A	C602	A-1B	C628	A-4B	C744	A-2B	C769	A-3B	C790	A-5A	C907	A-2A	**OTHER**		L903	A-2A
IC605	A-1A	Q601	A-4B	**DIODE**		R233	A-5B	R608	A-5A	R723	A-2B	R768	A-2B	R793	A-4A	R815	A-4A	R983	A-2B	C603	A-3A	C629	A-1A	C745	A-2B	C770	A-3B	C791	A-4A	C908	A-2A	X2	A-1B		
IC606	A-4B	Q602	A-4B	D200	A-3B	R235	A-3B	R609	A-1B	R725	A-2A	R769	A-2B	R794	A-4B	R816	A-3A	R984	A-2B	C604	A-4A	C630	A-2A	C746	A-2B	C771	A-3B	C792	A-4A	C909	A-2A	CN600	A-4B		
IC700	A-1A	Q603	A-4B	D600	A-1B	R237	A-4A	R610	A-1B	R726	A-2A	R770	A-2B	R795	A-5B	R817	A-3A	R987	A-3B	C605	A-1B	C631	A-4B	C747	A-2B	C772	A-3A	C794	A-4A	C910	A-2A	CP20	A-1B		
IC703	A-2B	Q604	A-5A	D601	A-5A	R238	A-5A	R611	A-3B	R736	A-2A	R772	A-2B	R796	A-5B	R825	A-2A	R988	A-3B	C606	A-4A	C700	A-2A	C748	A-2B	C773	A-3A	C795	A-4A	C911	A-1B	CP21	A-1A		
IC705	A-2B	Q605	A-5A	D602	A-5A	R241	A-4B	R612	A-3A	R737	A-1B	R773	A-3B	R797	A-1A	R826	A-2B			C607	A-3A	C704	A-2A	C749	A-2B	C774	A-3A	C798	A-4A	C912	A-1B	CP22	A-1A		
IC706	A-3A	Q606	A-1B	D604	A-5A	R242	A-4A	R613	A-1A	R740	A-1B	R774	A-3A	R798	A-3A	R828	A-2B	**CAPACITOR**		C609	A-1A	C711	A-1B	C750	A-4A	C775	A-3A	C801	A-4A	C913	A-1B	CP23	A-1B		
IC707	A-5B	Q704	A-3B	D700	A-3B	R243	A-4A	R614	A-4A	R744	A-1B	R775	A-3A	R800	A-4B	R852	A-2B	C218	A-3B	C610	A-1A	C718	A-1A	C751	A-2B	C777	A-3A	C802	A-4A	C914	A-1B	CP24	A-1B		
IC708	A-4B	Q705	A-3B	D701	A-3B	R244	A-4B	R615	A-2A	R746	A-2B	R776	A-3A	R801	A-4B	R853	A-2B	C225	A-4B	C611	A-1A	C719	A-1A	C754	A-2B	C779	A-4A	C805	A-3A	C915	A-1B	CP25	A-2A		
IC709	A-4A	Q706	A-3B	D702	A-3A	R246	A-4B	R616	A-1A	R748	A-2B	R777	A-2A	R802	A-5A	R857	A-2B	C226	A-4A	C612	A-1B	C720	A-4B	C756	A-2B	C780	A-4A	C806	A-4A	C970	A-2B	CP26	A-3A		
IC710	A-1A	Q707	A-3A	D703	A-3A	R247	A-4B	R701	A-2A	R752	A-2B	R778	A-3A	R803	A-4A	R860	A-2A	C227	A-4B	C613	A-4A	C723	A-3B	C758	A-2B	C781	A-4B	C807	A-2A	C971	A-1B	CP27	A-3A		
IC713	A-1B	Q708	A-3A			R248	A-4B	R702	A-2A	R756	A-2B	R780	A-3A	R804	A-4A	R901	A-2A	C230	A-4B	C615	A-3B	C730	A-1B	C759	A-2B	C782	A-5B	C808	A-5A	C981	A-2A	CP28	A-4B		
IC717	A-2B	Q709	A-5B			R253	A-5B	R703	A-2A	R757	A-2B	R783	A-3B	R805	A-4A	R902	A-2A	C235	A-4A	C616	A-1A	C732	A-2B	C760	A-2B	C783	A-5B	C812	A-4A	C982	A-1A	F600	A-1B		
		Q710	A-5B			R600	A-5A	R705	A-2A	R759	A-2B	R784	A-3B	R806	A-4A	R903	A-2A	C236	A-4A	C618	A-3B	C734	A-2B	C761	A-2B			C814	A-4A	C983	A-1A	F601	A-5B		

■ **TX-RX UNIT (X57-8510-10 (NX-340_K, NX-340(U)_K, NX-340_M), X57-8510-11 (NX-340_K2, NX-340(U)_K2, NX-340_M2, NX-340_M3, NX-340_P), X57-8510-12 (NX-340_K3))**
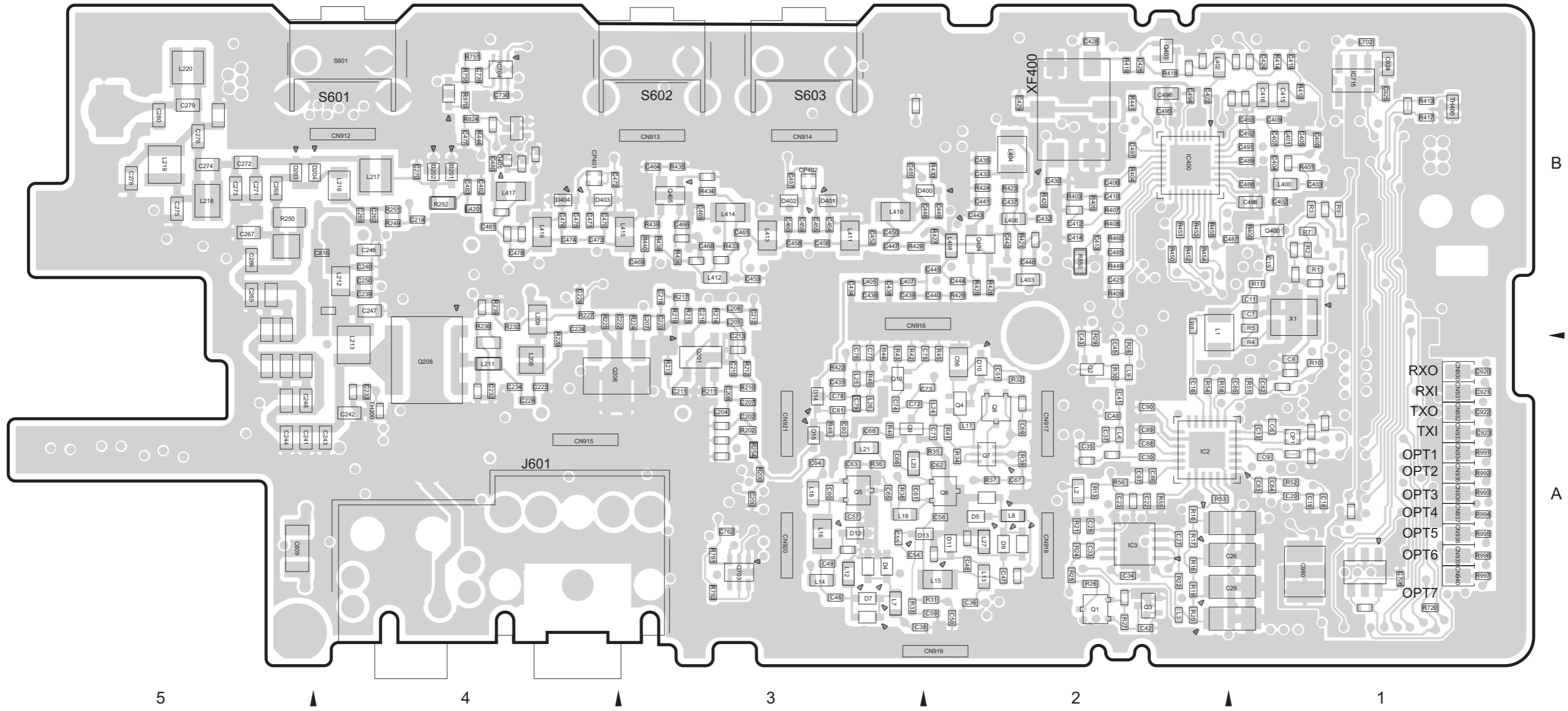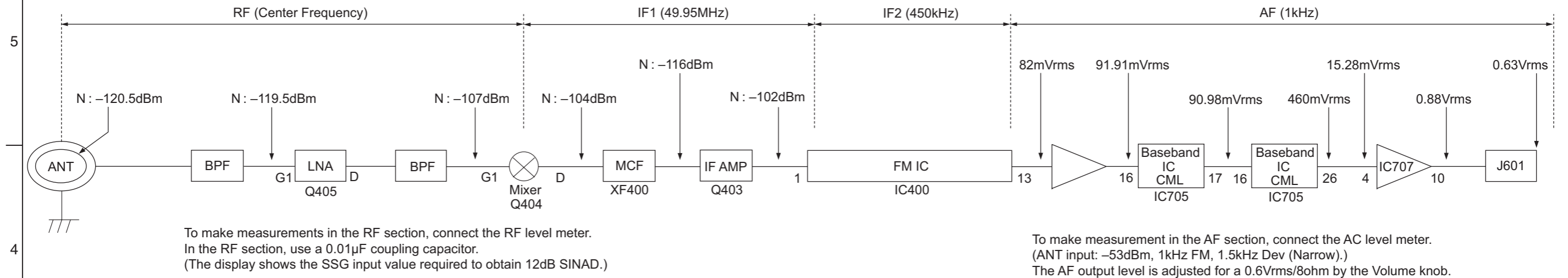--- Foil side view (J79-0401-19) ---

● **ADDRESS TABLE OF BOARD PARTS**
Each address may have an address error by one interval.

A-1C
Side — Y axis / X axis

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
IC		Q703	B-3A	**RESISTOR**		R30	B-2A	R200	B-3A	R404	B-2B	R436	B-3B	R994	B-1A	C34	B-2A	C63	B-3A	C89	B-2A	C242	B-4A	C403	B-1B	C436	B-3B	C461	B-3B	C492	B-1B	CN913	B-3B	L14	B-3A	L220	B-5B
IC2	B-2A			R1	B-1B	R31	B-2A	R202	B-3A	R405	B-2B	R438	B-3B	R995	B-1A	C35	B-3A	C64	B-3A	C90	B-2A	C243	B-4A	C404	B-1B	C437	B-2B	C464	B-3B	C493	B-1B	CN914	B-3B	L15	B-3A	L400	B-1B
IC3	B-2A	**DIODE**		R2	B-1B	R32	B-2A	R210	B-3A	R407	B-2B	R439	B-3B	R996	B-1A	C36	B-3A	C65	B-3A	C200	B-3A	C244	B-5A	C405	B-1B	C438	B-2B	C465	B-3B	C494	B-2B	CN915	B-4A	L16	B-2A	L401	B-1B
IC400	B-2B	D4	B-2A	R3	B-1B	R33	B-3A	R211	B-3A	R408	B-2B	R440	B-3B	R997	B-1A	C38	B-3A	C66	B-2A	C202	B-3A	C245	B-4B	C406	B-2B	C439	B-3B	C466	B-3B	C495	B-2B	CN916	B-3B	L17	B-2A	L402	B-2B
IC704	B-4B	D5	B-2A	R4	B-1A	R34	B-3A	R212	B-3A	R409	B-2B	R441	B-2B	**CAPACITOR**		C40	B-2A	C67	B-2A	C207	B-3A	C247	B-4B	C407	B-2B	C440	B-3B	C468	B-3B	C496	B-2B	CN917	B-3B	L18	B-2A	L403	B-2B
IC715	B-1B	D7	B-3A	R5	B-1B	R35	B-2A	R213	B-3A	R412	B-1B	R444	B-4B	C6	B-1B	C41	B-2A	C68	B-2A	C208	B-3A	C248	B-5A	C409	B-1B	C441	B-2B	C469	B-3B	C497	B-2B	CN918	B-2A	L19	B-2A	L404	B-2B
		D9	B-2A	R7	B-1B	R36	B-3A	R214	B-3B	R413	B-1B	R449	B-4B	C7	B-1B	C42	B-2A	C69	B-2A	C210	B-3A	C250	B-4B	C410	B-2B	C442	B-2B	C470	B-4B	C706	B-1A	CN919	B-2A	L21	B-2A	L405	B-3B
TRANSISTOR		D10	B-2A	R8	B-2B	R37	B-2A	R215	B-3B	R414	B-1B	R450	B-2B	C8	B-1B	C43	B-2A	C71	B-2A	C211	B-3A	C262	B-4B	C412	B-2B	C443	B-2B	C471	B-4B	C736	B-4B	CN920	B-1A	L23	B-3A	L406	B-3B
Q1	B-2A	D11	B-2A	R9	B-1B	R38	B-2A	R217	B-3B	R417	B-1B	R451	B-2B	C9	B-1B	C45	B-2A	C72	B-2A	C212	B-3B	C265	B-5B	C413	B-2B	C444	B-2B	C472	B-4B	C739	B-4B	CN921	B-3A	L24	B-3A	L407	B-2B
Q2	B-2A	D12	B-3A	R10	B-1A	R39	B-2A	R219	B-3B	R418	B-2B	R452	B-2B	C11	B-1B	C46	B-3A	C73	B-2A	C213	B-3B	C266	B-5B	C414	B-1B	C445	B-2B	C473	B-4B	C762	B-3A	S601	B-4B	L25	B-3B	L408	B-3B
Q3	B-2A	D13	B-3A	R11	B-1B	R40	B-3A	R224	B-3B	R419	B-2B	R453	B-2B	C13	B-1B	C47	B-2A	C74	B-2A	C214	B-4B	C267	B-5B	C415	B-1B	C446	B-2B	C474	B-4B	C809	B-5A	S602	B-3B	L26	B-3B	L410	B-3B
Q4	B-2A	D14	B-3A	R13	B-2A	R41	B-3A	R225	B-4B	R420	B-2B	R454	B-2B	C15	B-1B	C48	B-2A	C75	B-2A	C216	B-3B	C268	B-4B	C416	B-1B	C447	B-3B	C475	B-4B	C816	B-4B	S603	B-3B	L27	B-3B	L411	B-3B
Q5	B-3A	D15	B-3A	R16	B-2A	R42	B-3A	R227	B-4B	R421	B-2B	R455	B-2B	C16	B-2A	C49	B-3A	C76	B-2A	C219	B-3B	C269	B-4B	C419	B-1B	C448	B-3B	C476	B-4B	C920	B-1A	CP1	B-1A	L204	B-3B	L412	B-3B
Q6	B-2A	D201	B-4A	R17	B-2A	R43	B-3A	R229	B-4A	R422	B-3A	R460	B-2B	C18	B-1A	C50	B-2A	C77	B-2A	C220	B-3B	C270	B-4B	C421	B-2B	C450	B-3B	C477	B-4B	C921	B-1A	CP401	B-4B	L205	B-3B	L414	B-3B
Q7	B-2A	D202	B-4B	R18	B-2A	R44	B-3A	R232	B-3B	R423	B-2B	R720	B-1A	C19	B-1A	C51	B-2A	C78	B-2A	C222	B-3B	C271	B-5B	C422	B-2B	C451	B-2B	C478	B-4B	C922	B-1A	CP402	B-2B	L206	B-3B	L415	B-3B
Q8	B-2A	D203	B-5B	R19	B-2A	R45	B-2A	R236	B-4B	R424	B-2B	R751	B-4B	C20	B-1A	C54	B-3A	C79	B-2A	C223	B-4A	C272	B-5B	C424	B-2B	C452	B-3B	C480	B-4B	C923	B-1A	J601	B-3A	L207	B-3B	L416	B-4B
Q9	B-3A	D204	B-4A	R20	B-2A	R46	B-3A	R239	B-4B	R425	B-2B	R755	B-4B	C22	B-2A	C55	B-3A	C80	B-2A	C224	B-3B	C273	B-5B	C426	B-1B	C453	B-3B	C481	B-4B	C924	B-1B	L1	B-2B	L208	B-4A	L417	B-4B
Q10	B-3A	D400	B-2B	R21	B-2A	R48	B-3A	R249	B-4B	R426	B-2B	R781	B-3A	C23	B-2A	C56	B-3A	C81	B-2A	C228	B-4A	C274	B-5B	C428	B-2B	C454	B-3B	C482	B-4B	C925	B-1B	L2	B-2A	L209	B-4B	L420	B-4B
Q201	B-3A	D401	B-3B	R22	B-2A	R51	B-1A	R250	B-5B	R427	B-2B	R782	B-3A	C26	B-1A	C57	B-3A	C82	B-1A	C229	B-4B	C275	B-5B	C430	B-2B	C455	B-3B	C483	B-4B	C980	B-1A	L3	B-2A	L211	B-4B	L702	B-1B
Q206	B-4A	D402	B-3A	R24	B-2A	R52	B-1A	R251	B-4B	R428	B-2B	R824	B-4B	C27	B-2A	C58	B-3A	C83	B-1A	C232	B-4A	C276	B-5B	C431	B-3A	C456	B-3B	C485	B-4B	**OTHER**		L4	B-2A	L212	B-4B	XF400	B-2B
Q208	B-4A	D403	B-4B	R25	B-2A	R53	B-2A	R252	B-4B	R429	B-3B	R850	B-2B	C28	B-2A	C59	B-3A	C84	B-1A	C233	B-4A	C278	B-5B	C432	B-2B	C457	B-2B	C486	B-1B	X1	B-1B	L7	B-3A	L213	B-4B		
Q400	B-1B	D404	B-4B	R26	B-2A	R54	B-2A	R254	B-3A	R430	B-2B	R970	B-3A	C29	B-1A	C60	B-3A	C85	B-1A	C234	B-4A	C279	B-5B	C433	B-3B	C458	B-3B	C487	B-1B	TH200	B-4A	L8	B-3A	L216	B-4B		
Q403	B-2B	D405	B-4B	R27	B-2A	R55	B-2A	R400	B-1B	R433	B-3B	R991	B-1A	C30	B-2A	C61	B-3A	C86	B-1A	C239	B-4B	C280	B-5B	C434	B-3B	C459	B-3B	C488	B-1B	TH400	B-1B	L9	B-2A	L217	B-4B		
Q404	B-2B			R28	B-2A	R58	B-2A	R401	B-1B	R434	B-3B	R992	B-1A	C33	B-2A	C62	B-2A	C87	B-2A	C240	B-4B	C400	B-1B	C435	B-2B	C460	B-3B	C491	B-2B	CN912	B-4B	L12	B-3A	L218	B-5B		
Q405	B-3B			R29	B-2A			R403	B-2B	R435	B-3B	R993	B-1A					C88	B-2A	C241	B-5A	C402	B-1B									L13	B-3B	L219	B-5B		

LEVEL DIAGRAM

■ Receiver Section

RF (Center Frequency) | IF1 (49.95MHz) | IF2 (450kHz) | AF (1kHz)

N : −120.5dBm

N : −119.5dBm

N : −107dBm

N : −104dBm

N : −116dBm

N : −102dBm

82mVrms

91.91mVrms

90.98mVrms

15.28mVrms

460mVrms

0.88Vrms

0.63Vrms

ANT — BPF — LNA (G1) (D) Q405 — BPF — (G1) (D) Mixer Q404 — MCF XF400 — IF AMP Q403 — 1 FM IC IC400 — 13 — 16 Baseband IC CML IC705 — 17 16 Baseband IC CML IC705 — 26 — 4 IC707 — 10 — J601

To make measurements in the RF section, connect the RF level meter.
In the RF section, use a 0.01µF coupling capacitor.
(The display shows the SSG input value required to obtain 12dB SINAD.)

To make measurement in the AF section, connect the AC level meter.
(ANT input: −53dBm, 1kHz FM, 1.5kHz Dev (Narrow).)
The AF output level is adjusted for a 0.6Vrms/8ohm by the Volume knob.

■ Transmitter Section

AF (1KHz) | TX VCO | RF (Center Frequency)

f1: K, M
f2: K2, P, M2, M3
f3: K3

18.14mVrms

86.2mVrms

72.6mVrms

−2.16dBm

1.31dBm

f1,f2: 14.17dBm
f3: 13.26dBm

f1,f2: 13.15dBm
f3: 12.34dBm

High
f1,f2: 18.61dBm
f3: 22.53dBm

Low
f1,f2: 14.52dBm
f3: 22.50dBm

High
f1,f2: 33dBm
f3: 34.3dBm

Low
f1,f2: 26dBm
f3: 27.6dBm

H:5W
L:1W

MIC — C775 — 21 Baseband IC CML IC705 20 24 — Q9 — C74 — Q10 — C81 — PRE DRIVE AMP Q201 — C216 — C219 — DRIVE FET Q206 — C228 — FINAL FET Q208 — C268 D203 D204 — ANT — 50Ω

To make measurements in the AF section, connect the AC level meter.
AG is set so that MIC input becomes 1.5kHz (Narrow) DEV at 1kHz MOD.

To make measurements in the RF section, connect the RF Wattmeter (50ohm).
In the RF section, use a 270pF coupling capacitor.

BLOCK DIAGRAM

■ TX-RX UNIT (X57-8510-10 (NX-340_K, NX-340(U)_K, NX-340_M), X57-8510-11 (NX-340_K2, NX-340(U)_K2, NX-340_M2, NX-340_M3, NX-340_P), X57-8510-12 (NX-340_K3))

	TX VCO	RX VCO	1st LOCAL	TX/RX
NX-340-K, NX-340(U)-K NX-340-M	450.00~520.00MHz	400.05~470.05MHz	400.05~470.05MHz	450.00~520.00MHz
NX-340-K2, NX-340-P, NX-340-M2 NX-340-M3	400.00~470.00MHz	350.05~420.05MHz	350.05~420.05MHz	400.00~470.00MHz
NX-340-K3	350.00~400.00MHz	300.05~350.05MHz	300.05~350.05MHz	350.00~400.00MHz
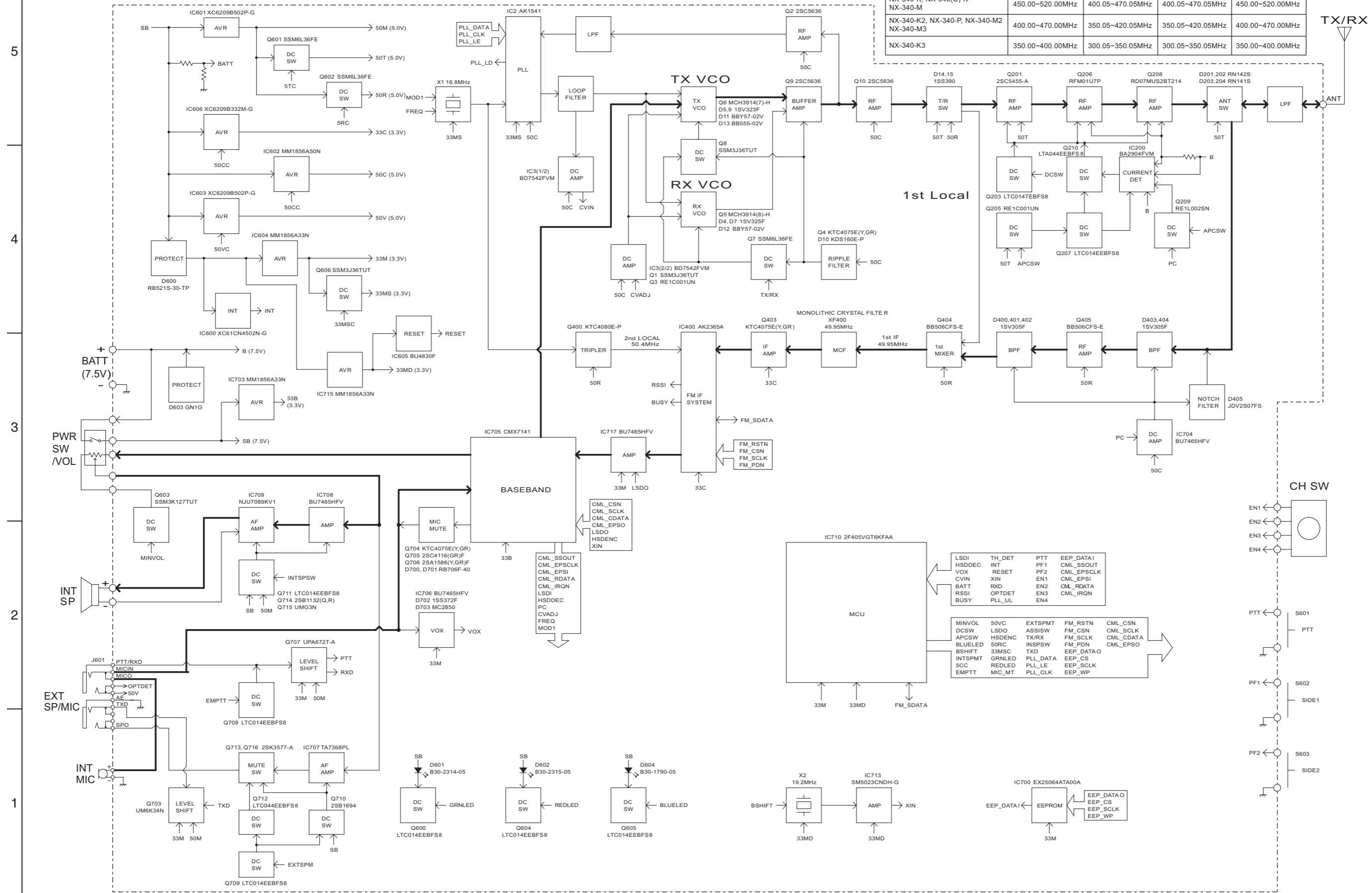
PARTS LIST

[NX-340,NX-340(U)]

* SAFETY PRECAUTION
Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.
* BEWARE OF BOGUS PARTS
Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine parts be used.
* (x_) in a description column shows the number of the used part.

- Contents -

Exploded view of general assembly and parts list

Block No.M1MM

TX-RX UNIT<01>
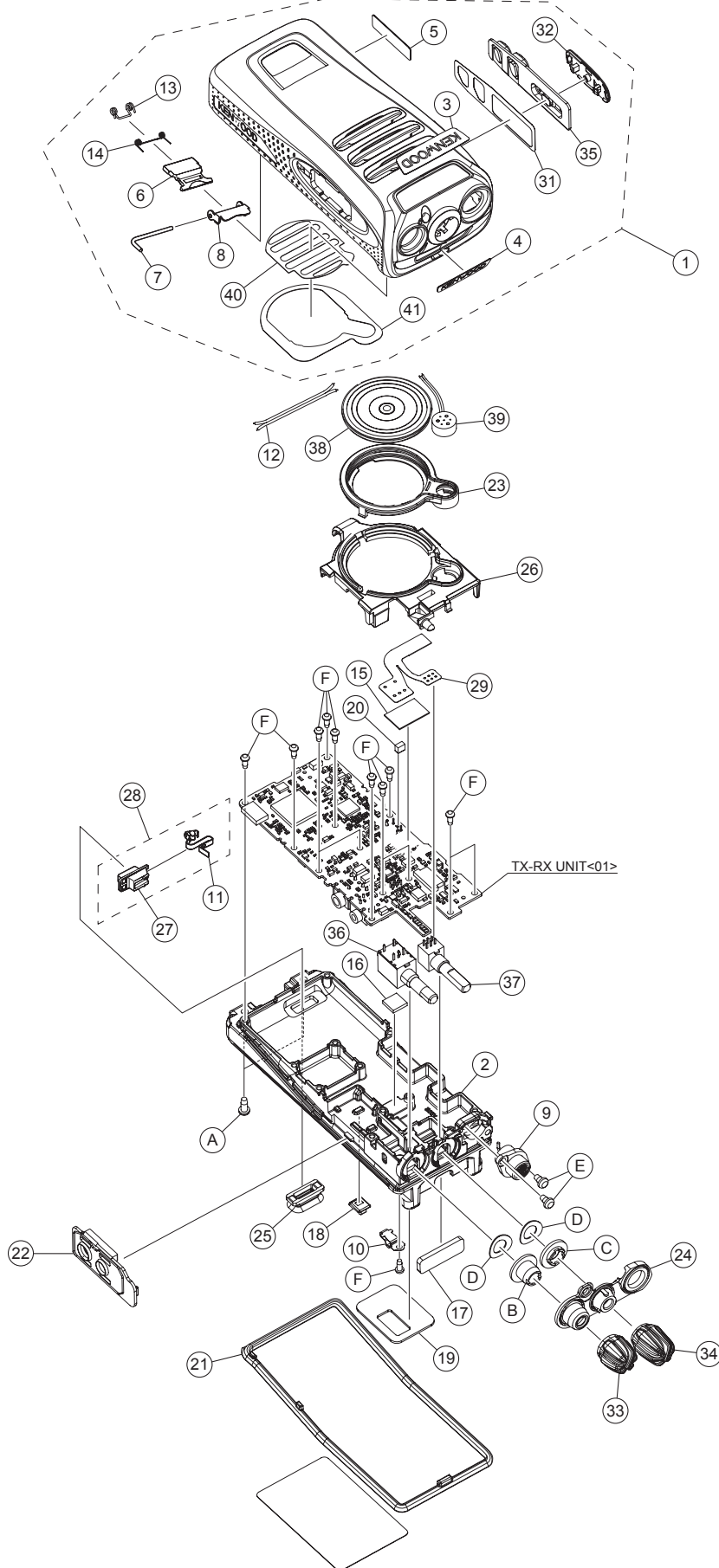
General assembly

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	A02-4228-13	PLASTIC CABINET ASSY		
2	A10-4177-01	CHASSIS		
3	B43-1693-04	BADGE(KENWOOD-FRONT)		
4	B43-1694-04	BADGE(KENWOOD)		
5	B43-1700-04	BADGE(NEXEDGE)		
6	D10-0649-03	LEVER		
7	D21-0863-04	SHAFT		
8	D32-0441-13	STOPPER		
9	E04-0477-15	RF COAXIAL RECEPTACLE(SMA)		
10	E23-1253-24	TERMINAL(GROUND)		
11	E23-1395-04	TERMINAL(+VE)		
12	E37-1288-05	PARALLEL CORD		
13	G01-4542-04	COIL SPRING(LEVER)		
14	G01-4543-14	COIL SPRING(STOPPER)		
15	G10-1348-04	FIBROUS SHEET(X57-IC)		
16	G11-4465-04	RUBBER SHEET(FET)		
17	G13-2009-04	CUSHION(CHASSIS)		
18	G13-2033-04	CUSHION(GROUND)		
19	G13-2034-24	CUSHION(CHASSIS)		
20	G13-2448-04	CUSHION(X57,SP)		
21	G53-1604-03	PACKING(CHASSIS)		
22	G53-2215-03	PACKING(SP/MIC)		
23	G53-2216-03	PACKING(SP)		
24	G53-2217-02	PACKING(VOLUME/SELECTOR)		
25	G53-2218-03	PACKING(+VE)		
26	J19-5578-12	HOLDER(SP)		
27	J19-5579-03	HOLDER(+VE)		
28	J19-5580-03	HOLDER ASSY		
29	J87-0054-05	FPC(VOLUME/SELECTOR)		
31	J99-0783-04	ADHESIVE SHEET(PTT)		
32	K29-9612-03	BUTTON KNOB(PTT)		
33	K29-9614-03	KNOB(VOLUME)		
34	K29-9615-03	KNOB(SELECTOR)		
35	K29-9625-03	BUTTON KNOB(PF)		
36	R31-0670-25	VARIABLE RESISTOR		
37	S60-0450-05	ROTARY SWITCH		
38	T07-0805-05	SPEAKER		
39	T91-0659-15	MIC ELEMENT		
40	G10-1854-04	FIBROUS SHEET(SP)		
41	G11-4652-04	SHEET(SP)		
A	N09-6621-05	PAN HEAD SCREW	(x2)	
B	N14-0849-05	CIRCULAR NUT(VOLUME)		
C	N14-0869-05	CIRCULAR NUT(SELECTOR)		
D	N19-2214-05	SPECIAL WASHER(VOL/SELECTOR)	(x2)	
E	N30-2604-48	PAN HEAD MACHINE SCREW	(x2)	
F	N83-2005-48	PAN HEAD TAPTITE SCREW	(x13)	
-	X60-4130-10	SERVICE TX-RX UNIT		NX-340_K
-	X60-4130-11	SERVICE TX-RX UNIT		NX-340(U)_K
-	X60-4130-12	SERVICE TX-RX UNIT		NX-340_K2
-	X60-4130-13	SERVICE TX-RX UNIT		NX-340(U)_K2
-	X60-4130-14	SERVICE TX-RX UNIT		NX-340_K3
-	X60-4130-21	SERVICE TX-RX UNIT		NX-340_M
-	X60-4130-22	SERVICE TX-RX UNIT		NX-340_M2
-	X60-4130-23	SERVICE TX-RX UNIT		NX-340_M3
-	X60-4131-01	SERVICE TX-RX UNIT		NX-340_P

Electrical parts list

TX-RX UNIT

X57-8510-10(NX-340_K,NX-340(U)_K,NX-340_M)

X57-8510-11(NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P)

X57-8510-12(NX-340_K3)

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC2	AK1541	MOS-IC		
IC3	BD7542FVM	MOS-IC		
IC200	BA2904FVM	MOS-IC		
IC400	AK2365A	MOS-IC		
IC600	XC61CN4502N-G	MOS-IC		
IC601	XC6209B502P-G	MOS-IC		
IC602	MM1856A50N	BI-POLAR IC		
IC603	XC6209B502P-G	MOS-IC		
IC604	MM1856A33N	BI-POLAR IC		
IC605	BU4830F	MOS-IC		
IC606	XC6209B332M-G	MOS-IC		
IC700	EX25064ATA00A	ROM IC		
IC703	MM1856A33N	BI-POLAR IC		
IC704	BU7465HFV	MOS-IC		
IC705	CMX7141	MOS-IC		
IC706	BU7465HFV	MOS-IC		
IC707	TA7368FG	MOS-IC		
IC708	BU7465HFV	MOS-IC		
IC709	NJU7089KV1	MOS-IC		
IC710	2F405VGT6KFAA	MICROPROCESSOR IC		
IC713	SM5023CNDH-G	MOS-IC		
IC715	MM1856A33N	BI-POLAR IC		
IC717	BU7465HFV	MOS-IC		
Q1	SSM3J36TUT	FET		
Q2	2SC5636	TRANSISTOR		
Q3	RE1C001UN	FET		
Q4	KTC4075E(Y,GR)	TRANSISTOR		
Q5	MCH3914(8)-H	FET		
Q6	MCH3914(7)-H	FET		
Q7	SSM6L36FE	FET		
Q8	SSM3J36TUT	FET		
Q9	2SC5636	TRANSISTOR		
Q10	2SC5636	TRANSISTOR		
Q201	2SC5455-A	TRANSISTOR		
Q203	LTC014TEBFS8	TRANSISTOR		
Q205	RE1C001UN	FET		
Q206	RFM01U7P	FET		
Q207	LTC014EEBFS8	TRANSISTOR		
Q208	RD07MUS2BT214	FET		
Q209	RE1L002SN	FET		
Q210	LTA044EEBFS8	DIGITAL TRANSISTOR		
Q400	KTC4080E-P	TRANSISTOR		
Q403	KTC4075E(Y,GR)	TRANSISTOR		
Q404	BB506CFS-E	FET		
Q405	BB506CFS-E	FET		
Q600	LTC014EEBFS8	TRANSISTOR		
Q601	SSM6L36FE	FET		
Q602	SSM6L36FE	FET		
Q603	SSM3K127TUT	FET		
Q604	LTC014EEBFS8	TRANSISTOR		
Q605	LTC014EEBFS8	TRANSISTOR		
Q606	SSM3J36TUT	FET		
Q703	UM6K34N	FET		
Q704	KTC4075E(Y,GR)	TRANSISTOR		
Q705	2SC4116(GR)F	TRANSISTOR		
Q706	2SA1586(Y,GR)F	TRANSISTOR		
Q707	UPA672T-A	FET		
Q708	LTC014EEBFS8	TRANSISTOR		
Q709	LTC014EEBFS8	TRANSISTOR		
Q710	2SB1694	TRANSISTOR		
Q711	LTC014EEBFS8	TRANSISTOR		
Q712	LTC044EEBFS8	TRANSISTOR		
Q713	2SK3577-A	FET		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q714	2SB1132(Q,R)	TRANSISTOR		
Q715	UMG3N	TRANSISTOR		
Q716	2SK3577-A	FET		
D4	1SV325F	VARIABLE CAPACITANCE DIODE		
D5	1SV325F	VARIABLE CAPACITANCE DIODE		NX-340_K,NX-340(U)_K,NX-340_M
D5	1SV323F	VARIABLE CAPACITANCE DIODE		NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
D7	1SV325F	VARIABLE CAPACITANCE DIODE		
D9	1SV325F	VARIABLE CAPACITANCE DIODE		NX-340_K,NX-340(U)_K,NX-340_M
D9	1SV323F	VARIABLE CAPACITANCE DIODE		NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
D10	KDS160E-P	DIODE		
D11	BBY57-02V	VARIABLE CAPACITANCE DIODE		
D12	BBY57-02V	VARIABLE CAPACITANCE DIODE		
D13	BB555-02V	DIODE		
D14	1SS390	DIODE		
D15	1SS390	DIODE		
D200	UDZW5.1(B)	ZENER DIODE		
D201	RN142S	DIODE		
D202	RN142S	DIODE		
D203	RN141S	DIODE		
D204	RN141S	DIODE		
D400	1SV305F	VARIABLE CAPACITANCE DIODE		
D401	1SV305F	VARIABLE CAPACITANCE DIODE		
D402	1SV305F	VARIABLE CAPACITANCE DIODE		
D403	1SV305F	VARIABLE CAPACITANCE DIODE		
D404	1SV305F	VARIABLE CAPACITANCE DIODE		
D405	JDV2S07FS	VARIABLE CAPACITANCE DIODE		
D600	RB521S-30-TP	DIODE		
D601	B30-2314-05	LED	(GREEN)	
D602	B30-2315-05	LED	(RED)	
D603	GN1G	DIODE		
D604	B30-1790-05	LED	(BLUE)	
D700	RB706F-40	DIODE		
D701	RB706F-40	DIODE		
D702	1SS372F	DIODE		
D703	MC2850	DIODE		
C6	CC73HCH1H101J	C CAPACITOR	100PF J	
C7	CC73HCH1H100B	C CAPACITOR	10PF B	
C8	CK73HB1E103K	C CAPACITOR	0.010UF K	
C9	CC73HCH1H101J	C CAPACITOR	100PF J	
C11	CC73HCH1H100B	C CAPACITOR	10PF B	
C13	CC73HCH1H101J	C CAPACITOR	100PF J	
C15	CK73HB1E103K	C CAPACITOR	0.010UF K	
C16	CK73HB1E103K	C CAPACITOR	0.010UF K	
C18	CK73HB1H271K	C CAPACITOR	270PF K	
C19	CK73HB1E103K	C CAPACITOR	0.010UF K	
C20	CK73HB1A104K	C CAPACITOR	0.10UF K	
C22	CK73HB1H271K	C CAPACITOR	270PF K	
C23	CK73HB1E103K	C CAPACITOR	0.010UF K	
C26	CS77MA1D1R5M	TA E CAPACITOR	1.5UF 20WV	
C27	CK73HB1H271K	C CAPACITOR	270PF K	
C28	CK73HB1H271K	C CAPACITOR	270PF K	
C29	CS77MA1V0R1M	TA E CAPACITOR	0.1UF 35WV	
C30	CK73HB1H271K	C CAPACITOR	270PF K	
C33	CK73HB1E103K	C CAPACITOR	0.010UF K	
C34	CK73HB1A104K	C CAPACITOR	0.10UF K	
C35	CC73HCH1H080B	C CAPACITOR	8.0PF B	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2, NX-340_M3,NX-340_P
C35	CC73HCH1H100B	C CAPACITOR	10PF B	NX-340_K3
C36	CK73HB1A105K	C CAPACITOR	1.0UF K	NX-340_K,NX-340(U)_K,NX-340_M
C36	CK73HB1A104K	C CAPACITOR	0.10UF K	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C37	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
C37	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K3
C38	CK73HB1H271K	C CAPACITOR	270PF K	
C40	CC73HCH1H080B	C CAPACITOR	8.0PF B	
C41	CC73HCH1H100C	C CAPACITOR	10PF C	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C42	CK73HB1A104K	C CAPACITOR	0.10UF K	
C43	CK73HB1H271K	C CAPACITOR	270PF K	
C45	CK73HB1H271K	C CAPACITOR	270PF K	
C46	CC73HCH1H560J	C CAPACITOR	56PF J	NX-340_K,NX-340(U)_K,NX-340_M
C46	CC73HCH1H101J	C CAPACITOR	100PF J	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C47	CC73HCH1H220J	C CAPACITOR	22PF J	NX-340_K,NX-340(U)_K,NX-340_M
C47	CC73HCH1H200J	C CAPACITOR	20PF J	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C48	CC73HCH1H070B	C CAPACITOR	7.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C48	CC73HCH1H4R5B	C CAPACITOR	4.5PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C48	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K3
C49	CC73HCH1H100C	C CAPACITOR	10PF C	NX-340_K,NX-340(U)_K,NX-340_M
C49	CC73HCH1H080B	C CAPACITOR	8.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C49	CC73HCH1H100B	C CAPACITOR	10PF B	NX-340_K3
C50	CK73HB1H271K	C CAPACITOR	270PF K	
C51	CK73HB1H271K	C CAPACITOR	270PF K	
C54	CC73HCH1HR75B	C CAPACITOR	0.75PF B	NX-340_K,NX-340(U)_K,NX-340_M
C54	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C55	CC73HCH1HR75B	C CAPACITOR	0.75PF B	NX-340_K,NX-340(U)_K,NX-340_M
C55	CC73HCH1H010B	C CAPACITOR	1.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C56	CK73FB0J226M	C CAPACITOR	22UF M	
C57	CC73HCH1H4R5B	C CAPACITOR	4.5PF B	
C58	CC73HCH1H050B	C CAPACITOR	5.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C58	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C59	CK73HB1A105K	C CAPACITOR	1.0UF K	
C60	CC73HCH1H060B	C CAPACITOR	6.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C60	CC73HCH1H080B	C CAPACITOR	8.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C61	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C61	CC73HCH1H060B	C CAPACITOR	6.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C62	CC73HCH1H050B	C CAPACITOR	5.0PF B	
C63	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C63	CC73HCH1H080B	C CAPACITOR	8.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C64	CK73HB1H271K	C CAPACITOR	270PF K	
C65	CK73HB1H271K	C CAPACITOR	270PF K	
C66	CC73HCH1H0R5B	C CAPACITOR	0.5PF B	
C67	CK73HB1H271K	C CAPACITOR	270PF K	
C68	CC73HCH1H0R3B	C CAPACITOR	0.3PF B	NX-340_K,NX-340(U)_K,NX-340_M
C68	CC73HCH1H0R5B	C CAPACITOR	0.5PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C69	CK73HB1H271K	C CAPACITOR	270PF K	
C71	CK73HB1H271K	C CAPACITOR	270PF K	
C72	CC73HCH1H330J	C CAPACITOR	33PF J	
C73	CC73HCH1H100B	C CAPACITOR	10PF B	
C74	CC73HCH1H150J	C CAPACITOR	15PF J	
C75	CK73HB1H271K	C CAPACITOR	270PF K	
C76	CK73HB1H271K	C CAPACITOR	270PF K	
C77	CK73HB1A104K	C CAPACITOR	0.10UF K	
C78	CC73HCH1H070B	C CAPACITOR	7.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C78	CC73HCH1H130J	C CAPACITOR	13PF J	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C78	CC73HCH1H150J	C CAPACITOR	15PF J	NX-340_K3
C79	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C79	CC73HCH1H080B	C CAPACITOR	8.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C80	CC73HCH1H050B	C CAPACITOR	5.0PF B	
C81	CC73HCH1H150J	C CAPACITOR	15PF J	NX-340_K,NX-340(U)_K,NX-340_M
C81	CC73HCH1H100C	C CAPACITOR	10PF C	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C81	CC73HCH1H180J	C CAPACITOR	18PF J	NX-340_K3
C82	CC73HCH1H101J	C CAPACITOR	100PF J	
C83	CC73HCH1H101J	C CAPACITOR	100PF J	
C84	CK73HB1H103K	C CAPACITOR	0.010UF K	
C85	CK73HB1A473K	C CAPACITOR	0.047UF K	
C86	CK73HB1E103K	C CAPACITOR	0.010UF K	
C87	CC73HCH1H101J	C CAPACITOR	100PF J	
C88	CC73HCH1H101J	C CAPACITOR	100PF J	
C89	CK73HB1A224K	C CAPACITOR	0.22UF K	
C90	CK73HB1A224K	C CAPACITOR	0.22UF K	
C200	CK73HB1H271K	C CAPACITOR	270PF K	
C202	CC73HCH1H080B	C CAPACITOR	8.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C202	CK73HB1H271K	C CAPACITOR	270PF K	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C207	CC73HCH1H180J	C CAPACITOR	18PF J	NX-340_K,NX-340(U)_K,NX-340_M
C207	CC73HCH1H050B	C CAPACITOR	5.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C207	CC73HCH1H070B	C CAPACITOR	7.0PF B	NX-340_K3
C208	CC73HCH1H150J	C CAPACITOR	15PF J	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
C208	CC73HCH1H200J	C CAPACITOR	20PF J	NX-340_K3
C210	CK73HB1A224K	C CAPACITOR	0.22UF K	
C211	CK73HB1H271K	C CAPACITOR	270PF K	
C212	CK73HB1H271K	C CAPACITOR	270PF K	
C213	CK73HB1H271K	C CAPACITOR	270PF K	
C214	CK73HB1H271K	C CAPACITOR	270PF K	
C216	CC73HCH1H050B	C CAPACITOR	5.0PF B	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
C216	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K3
C218	CK73HB1A104K	C CAPACITOR	0.10UF K	
C219	CK73HB1H271K	C CAPACITOR	270PF K	
C220	CC73HCH1H100C	C CAPACITOR	10PF C	
C222	CK73HB1H271K	C CAPACITOR	270PF K	
C223	CC73HCH1H100B	C CAPACITOR	10PF B	
C224	CK73HB1H271K	C CAPACITOR	270PF K	
C225	CK73HB1H271K	C CAPACITOR	270PF K	
C226	CK73HB1H271K	C CAPACITOR	270PF K	
C227	CK73FB1A105K	C CAPACITOR	1.0UF K	NX-340_K,NX-340(U)_K,NX-340_M
C227	CK73FB1A225K	C CAPACITOR	2.2UF K	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C228	CC73HCH1H101J	C CAPACITOR	100PF J	
C229	CK73HB1H271K	C CAPACITOR	270PF K	
C230	CC73HCH1H470J	C CAPACITOR	47PF J	
C232	CK73HB1H271K	C CAPACITOR	270PF K	
C233	CK73HB1H271K	C CAPACITOR	270PF K	
C234	CC73HCH1H330J	C CAPACITOR	33PF J	NX-340_K,NX-340(U)_K,NX-340_M
C234	CC73HCH1H390J	C CAPACITOR	39PF J	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C234	CC73HCH1H240J	C CAPACITOR	24PF J	NX-340_K3
C235	CC73HCH1H470J	C CAPACITOR	47PF J	
C236	CC73HCH1H100B	C CAPACITOR	10PF B	
C239	CC73HCH1H151J	C CAPACITOR	150PF J	
C240	CC73HCH1H151J	C CAPACITOR	150PF J	
C241	CC73GCH1H180J	C CAPACITOR	18PF J	NX-340_K,NX-340(U)_K,NX-340_M
C241	CC73GCH1H180G	C CAPACITOR	18PF G	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C242	CC73GCH1H240J	C CAPACITOR	24PF J	NX-340_K,NX-340(U)_K,NX-340_M
C242	CC73GCH1H180G	C CAPACITOR	18PF G	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C242	CC73GCH1H020B	C CAPACITOR	2.0PF B	NX-340_K3
C243	CC73GCH1H120J	C CAPACITOR	12PF J	NX-340_K,NX-340(U)_K,NX-340_M
C243	CC73GCH1H180G	C CAPACITOR	18PF G	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C244	CC73GCH1H0R3B	C CAPACITOR	0.3PF B	NX-340_K,NX-340(U)_K,NX-340_M
C245	CK73GB1A105K	C CAPACITOR	1.0UF K	
C247	CK73GB1C104K	C CAPACITOR	0.10UF K	
C248	CC73GCH1H240J	C CAPACITOR	24PF J	NX-340_K,NX-340(U)_K,NX-340_M
C248	CC73GCH1H180G	C CAPACITOR	18PF G	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C249	CK73HB1H471K	C CAPACITOR	470PF K	
C250	CK73HB1E103K	C CAPACITOR	0.010UF K	
C252	CK73HB1H271K	C CAPACITOR	270PF K	
C258	CK73HB1H271K	C CAPACITOR	270PF K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C262	CK73HB1A104K	C CAPACITOR	0.10UF K	
C263	CK73HB1H271K	C CAPACITOR	270PF K	
C265	CC73GCH1H2R5B	C CAPACITOR	2.5PF B	NX-340_K,NX-340(U)_K,NX-340_M
C265	CC73GCH1H030B	C CAPACITOR	3.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C265	CC73GCH1H080B	C CAPACITOR	8.0PF B	NX-340_K3
C266	CC73GCH1H1R5B	C CAPACITOR	1.5PF B	NX-340_K,NX-340(U)_K,NX-340_M
C266	CC73GCH1H040B	C CAPACITOR	4.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C266	CC73GCH1H060B	C CAPACITOR	6.0PF B	NX-340_K3
C267	CC73GCH1H050B	C CAPACITOR	5.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C267	CC73GCH1H070B	C CAPACITOR	7.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C267	CC73GCH1H080B	C CAPACITOR	8.0PF B	NX-340_K3
C268	CK73GB1H271K	C CAPACITOR	270PF K	NX-340_K,NX-340(U)_K,NX-340_M
C268	CK73GB1H471K	C CAPACITOR	470PF K	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C269	CK73HB1H271K	C CAPACITOR	270PF K	
C270	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C270	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C271	CC73GCH1H060B	C CAPACITOR	6.0PF B	NX-340_K,NX-340_K3,NX-340(U)_K,NX-340_M
C271	CC73GCH1H050B	C CAPACITOR	5.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C272	CC73GCH1H101J	C CAPACITOR	100PF J	NX-340_K,NX-340(U)_K,NX-340_M
C272	CC73GCH1H300J	C CAPACITOR	30PF J	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C273	CC73GCH1HR75B	C CAPACITOR	0.75PF B	NX-340_K,NX-340(U)_K,NX-340_M
C273	CC73GCH1H1R5B	C CAPACITOR	1.5PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C273	CC73GCH1H030B	C CAPACITOR	3.0PF B	NX-340_K3
C274	CC73GCH1H020B	C CAPACITOR	2.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C274	CC73GCH1H040B	C CAPACITOR	4.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C275	CC73GCH1H060B	C CAPACITOR	6.0PF B	NX-340_K,NX-340_K2,NX-340(U)_K,NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
C275	CC73GCH1H110J	C CAPACITOR	11PF J	NX-340_K3
C276	CC73GCH1H0R3B	C CAPACITOR	0.3PF B	NX-340_K,NX-340_K3,NX-340(U)_K,NX-340_M
C276	CC73GCH1H010B	C CAPACITOR	1.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C278	CC73GCH1H070B	C CAPACITOR	7.0PF B	
C279	CC73GCH1H010B	C CAPACITOR	1.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C279	CC73GCH1H020B	C CAPACITOR	2.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C279	CC73GCH1H040B	C CAPACITOR	4.0PF B	NX-340_K3
C280	CC73GCH1H3R5B	C CAPACITOR	3.5PF B	NX-340_K,NX-340_K2,NX-340(U)_K,NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
C280	CC73GCH1H0R5B	C CAPACITOR	0.5PF B	NX-340_K3
C400	CK73HB1A104K	C CAPACITOR	0.10UF K	
C402	CC73HCH1H330J	C CAPACITOR	33PF J	
C403	CK73HB1E103K	C CAPACITOR	0.010UF K	
C404	CC73HCH1H220J	C CAPACITOR	22PF J	
C405	CC73HCH1H820J	C CAPACITOR	82PF J	
C406	CK73HB1H271K	C CAPACITOR	270PF K	
C407	CC73HCH1H390J	C CAPACITOR	39PF J	
C409	CC73HCH1H820J	C CAPACITOR	82PF J	
C410	CK73HB1H271K	C CAPACITOR	270PF K	
C412	CC73HCH1H560J	C CAPACITOR	56PF J	
C413	CK73HB1H182K	C CAPACITOR	1800PF K	
C414	CK73HB1H681K	C CAPACITOR	680PF K	
C415	CK73GB0J106K	C CAPACITOR	10UF K	
C416	CK73GB0J106K	C CAPACITOR	10UF K	
C419	CK73HB1H271K	C CAPACITOR	270PF K	
C421	CK73HB1A333K	C CAPACITOR	0.033UF K	
C422	CK73HB1E103K	C CAPACITOR	0.010UF K	
C424	CK73HB1E103K	C CAPACITOR	0.010UF K	
C426	CK73HB1E103K	C CAPACITOR	0.010UF K	
C428	CC73HCH1H020B	C CAPACITOR	2.0PF B	
C429	CC73HCH1H100C	C CAPACITOR	10PF C	NX-340_K,NX-340(U)_K,NX-340_M
C429	CC73HCH1H090B	C CAPACITOR	9.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C429	CC73HCH1H080B	C CAPACITOR	8.0PF B	NX-340_K3
C430	CC73HCH1H020B	C CAPACITOR	2.0PF B	NX-340_K,NX-340_K3,NX-340(U)_K,NX-340_M
C430	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C431	CK73HB1H271K	C CAPACITOR	270PF K	
C432	CK73HB1E103K	C CAPACITOR	0.010UF K	
C433	CK73HB1H271K	C CAPACITOR	270PF K	
C434	CC73HCH1H010B	C CAPACITOR	1.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C435	CK73HB1E103K	C CAPACITOR	0.010UF K	
C436	CC73HCH1H2R5B	C CAPACITOR	2.5PF B	NX-340_K,NX-340(U)_K,NX-340_M
C437	CC73HCH1H150J	C CAPACITOR	15PF J	
C438	CC73HCH1H050B	C CAPACITOR	5.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C438	CC73HCH1H080B	C CAPACITOR	8.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C439	CC73HCH1H020B	C CAPACITOR	2.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C439	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C440	CC73HCH1H1R5B	C CAPACITOR	1.5PF B	NX-340_K,NX-340(U)_K,NX-340_M
C440	CC73HCH1H050B	C CAPACITOR	5.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C441	CK73HB1E103K	C CAPACITOR	0.010UF K	
C442	CC73HCH1H010B	C CAPACITOR	1.0PF B	
C443	CK73HB1H271K	C CAPACITOR	270PF K	
C444	CK73HB1H271K	C CAPACITOR	270PF K	
C445	CC73HCH1H020B	C CAPACITOR	2.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C445	CC73HCH1H3R5B	C CAPACITOR	3.5PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C445	CC73HCH1H070B	C CAPACITOR	7.0PF B	NX-340_K3
C446	CK73HB1H271K	C CAPACITOR	270PF K	
C447	CK73HB1H271K	C CAPACITOR	270PF K	
C448	CC73HCH1H1R5B	C CAPACITOR	1.5PF B	NX-340_K,NX-340_K2,NX-340(U)_K,NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
C448	CC73HCH1H2R5B	C CAPACITOR	2.5PF B	NX-340_K3
C449	CC73HCH1H110G	C CAPACITOR	11PF G	NX-340_K,NX-340(U)_K,NX-340_M
C449	CC73HCH1H240J	C CAPACITOR	24PF J	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C449	CC73HCH1H390J	C CAPACITOR	39PF J	NX-340_K3
C450	CC73HCH1H020B	C CAPACITOR	2.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C450	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C451	CK73HB1H271K	C CAPACITOR	270PF K	NX-340_K,NX-340_K2,NX-340(U)_K,NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
C451	CK73HB1E104K	C CAPACITOR	0.10UF K	NX-340_K3
C452	CC73HCH1HR75B	C CAPACITOR	0.75PF B	NX-340_K,NX-340(U)_K,NX-340_M
C452	CC73HCH1H010B	C CAPACITOR	1.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C452	CC73HCH1H020B	C CAPACITOR	2.0PF B	NX-340_K3
C453	CK73HB1H271K	C CAPACITOR	270PF K	
C454	CC73HCH1H040B	C CAPACITOR	4.0PF B	
C455	CC73HCH1H110G	C CAPACITOR	11PF G	NX-340_K,NX-340(U)_K,NX-340_M
C455	CC73HCH1H240J	C CAPACITOR	24PF J	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C455	CC73HCH1H390J	C CAPACITOR	39PF J	NX-340_K3
C456	CC73HCH1HR75B	C CAPACITOR	0.75PF B	NX-340_K,NX-340(U)_K,NX-340_M
C456	CC73HCH1H010B	C CAPACITOR	1.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C456	CC73HCH1H2R5B	C CAPACITOR	2.5PF B	NX-340_K3
C457	CK73HB1H271K	C CAPACITOR	270PF K	NX-340_K,NX-340_K2,NX-340(U)_K,NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P

Symbol No.	Part No.	Part Name	Description	Local
C457	CK73HB1E104K	C CAPACITOR	0.10UF K	NX-340_K3
C458	CC73HCH1H1R5B	C CAPACITOR	1.5PF B	
C459	CC73HCH1H110G	C CAPACITOR	11PF G	NX-340_K,NX-340(U)_K,NX-340_M
C459	CC73HCH1H240J	C CAPACITOR	24PF J	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C459	CC73HCH1H390J	C CAPACITOR	39PF J	NX-340_K3
C460	CC73HCH1H2R5B	C CAPACITOR	2.5PF B	NX-340_K,NX-340(U)_K,NX-340_M
C460	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C460	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K3
C461	CK73HB1H271K	C CAPACITOR	270PF K	
C464	CK73HB1H271K	C CAPACITOR	270PF K	
C465	CK73HB1H271K	C CAPACITOR	270PF K	
C466	CK73HB1H271K	C CAPACITOR	270PF K	
C468	CK73HB1A104K	C CAPACITOR	0.10UF K	
C469	CC73HCH1H101J	C CAPACITOR	100PF J	NX-340_K,NX-340(U)_K,NX-340_M
C469	CC73HCH1H271J	C CAPACITOR	270PF J	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C470	CC73HCH1H0R3B	C CAPACITOR	0.3PF B	NX-340_K,NX-340(U)_K,NX-340_M
C470	CC73HCH1H020B	C CAPACITOR	2.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C470	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K3
C471	CC73HCH1H110G	C CAPACITOR	11PF G	NX-340_K,NX-340(U)_K,NX-340_M
C471	CC73HCH1H240J	C CAPACITOR	24PF J	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C471	CC73HCH1H330J	C CAPACITOR	33PF J	NX-340_K3
C472	CK73HB1H271K	C CAPACITOR	270PF K	NX-340_K,NX-340_K2,NX-340(U)_K,NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
C472	CK73HB1E104K	C CAPACITOR	0.10UF K	NX-340_K3
C473	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C473	CC73HCH1H3R5B	C CAPACITOR	3.5PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C473	CC73HCH1H4R5B	C CAPACITOR	4.5PF B	NX-340_K3
C474	CC73HCH1H040B	C CAPACITOR	4.0PF B	NX-340_K,NX-340_K3,NX-340(U)_K,NX-340_M
C474	CC73HCH1H030B	C CAPACITOR	3.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C475	CC73HCH1H110G	C CAPACITOR	11PF G	NX-340_K,NX-340(U)_K,NX-340_M
C475	CC73HCH1H240J	C CAPACITOR	24PF J	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C475	CC73HCH1H330J	C CAPACITOR	33PF J	NX-340_K3
C476	CC73HCH1H1R5B	C CAPACITOR	1.5PF B	NX-340_K,NX-340(U)_K,NX-340_M
C476	CC73HCH1H060B	C CAPACITOR	6.0PF B	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C477	CK73HB1H271K	C CAPACITOR	270PF K	
C478	CC73HCH1H300J	C CAPACITOR	30PF J	NX-340_K,NX-340(U)_K,NX-340_M
C478	CC73HCH1H330J	C CAPACITOR	33PF J	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C480	CC73HCH1H090B	C CAPACITOR	9.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C480	CC73HCH1H270J	C CAPACITOR	27PF J	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C480	CC73HCH1H390J	C CAPACITOR	39PF J	NX-340_K3
C481	CC73HCH1H050B	C CAPACITOR	5.0PF B	NX-340_K,NX-340(U)_K,NX-340_M
C481	CC73HCH1H060B	C CAPACITOR	6.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C481	CC73HCH1H270J	C CAPACITOR	27PF J	NX-340_K3
C482	CC73HCH1H050B	C CAPACITOR	5.0PF B	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
C482	CC73HCH1H100B	C CAPACITOR	10PF B	NX-340_K3
C483	CC73HCH1H010B	C CAPACITOR	1.0PF B	
C485	CK73HB1H102K	C CAPACITOR	1000PF K	
C486	CK73GB0J106K	C CAPACITOR	10UF K	
C487	CK73HB1A104K	C CAPACITOR	0.10UF K	
C488	CK73HB1A224K	C CAPACITOR	0.22UF K	
C489	CK73HB1A105K	C CAPACITOR	1.0UF K	
C491	CK73HB1A105K	C CAPACITOR	1.0UF K	
C492	CC73HCH1H101J	C CAPACITOR	100PF J	
C493	CC73HCH1H101J	C CAPACITOR	100PF J	
C494	CK73HB1A224K	C CAPACITOR	0.22UF K	
C495	CK73HB1A104K	C CAPACITOR	0.10UF K	
C496	CK73GB0J106K	C CAPACITOR	10UF K	
C497	CK73HB1A104K	C CAPACITOR	0.10UF K	
C600	CK73GB1A105K	C CAPACITOR	1.0UF K	
C601	CK73GB1A105K	C CAPACITOR	1.0UF K	
C602	CK73GB1C225K	C CAPACITOR	2.2UF K	
C603	CK73GB1A105K	C CAPACITOR	1.0UF K	
C604	CK73HB1H271K	C CAPACITOR	270PF K	
C605	CK73GB1A105K	C CAPACITOR	1.0UF K	
C606	CK73GB1A105K	C CAPACITOR	1.0UF K	
C607	CK73GB1A105K	C CAPACITOR	1.0UF K	
C609	CK73HB1H271K	C CAPACITOR	270PF K	
C610	CK73HB1H271K	C CAPACITOR	270PF K	
C611	CK73HB1H271K	C CAPACITOR	270PF K	
C612	CK73HB1A104K	C CAPACITOR	0.10UF K	
C613	CK73HB1H271K	C CAPACITOR	270PF K	
C615	CK73HB1H271K	C CAPACITOR	270PF K	
C616	CK73HB1H271K	C CAPACITOR	270PF K	
C618	CK73GB1A105K	C CAPACITOR	1.0UF K	
C620	CK73HB1H271K	C CAPACITOR	270PF K	
C621	CK73GB1A105K	C CAPACITOR	1.0UF K	
C623	CK73HB1H271K	C CAPACITOR	270PF K	
C624	CK73HB1H271K	C CAPACITOR	270PF K	
C625	CK73HB1H271K	C CAPACITOR	270PF K	
C626	CK73HB1H271K	C CAPACITOR	270PF K	
C628	CK73HB1H271K	C CAPACITOR	270PF K	
C629	CK73HB1E103K	C CAPACITOR	0.010UF K	
C630	CK73HB1H271K	C CAPACITOR	270PF K	
C631	CK73HB1H271K	C CAPACITOR	270PF K	
C700	CK73HB1H271K	C CAPACITOR	270PF K	
C704	CK73HB1H102K	C CAPACITOR	1000PF K	
C706	CK73HB1A104K	C CAPACITOR	0.10UF K	
C711	CK73HB1H271K	C CAPACITOR	270PF K	
C718	CK73HB1A104K	C CAPACITOR	0.10UF K	
C719	CK73HB1H102K	C CAPACITOR	1000PF K	
C720	CK73GB1A105K	C CAPACITOR	1.0UF K	
C723	CK73GB1A105K	C CAPACITOR	1.0UF K	
C730	CK73GB1A105K	C CAPACITOR	1.0UF K	
C732	CK73HB1H271K	C CAPACITOR	270PF K	
C734	CK73GB0J106K	C CAPACITOR	10UF K	
C735	CK73GB0J106K	C CAPACITOR	10UF K	
C736	CK73HB1H271K	C CAPACITOR	270PF K	
C737	CK73HB1A105K	C CAPACITOR	1.0UF K	
C739	CK73HB1E103K	C CAPACITOR	0.010UF K	
C740	CK73HB1A104K	C CAPACITOR	0.10UF K	
C741	CK73GB0J106K	C CAPACITOR	10UF K	
C742	CK73HB1H271K	C CAPACITOR	270PF K	
C743	CK73HB1H103K	C CAPACITOR	0.010UF K	
C744	CK73GB0J106K	C CAPACITOR	10UF K	
C745	CK73HB1A104K	C CAPACITOR	0.10UF K	
C746	CK73HB1H271K	C CAPACITOR	270PF K	
C747	CK73HB1H152K	C CAPACITOR	1500PF K	
C748	CK73HB1A105K	C CAPACITOR	1.0UF K	
C749	CC73HCH1H101J	C CAPACITOR	100PF J	
C750	CC73HCH1H101J	C CAPACITOR	100PF J	
C751	CK73HB1H271K	C CAPACITOR	270PF K	
C754	CC73HCH1H101J	C CAPACITOR	100PF J	
C756	CK73HB1A105K	C CAPACITOR	1.0UF K	
C758	CK73HB0J475M	C CAPACITOR	4.7UF M	
C759	CK73HB1A105K	C CAPACITOR	1.0UF K	
C760	CK73HB1A474K	C CAPACITOR	0.47UF K	
C761	CK73HB1A474K	C CAPACITOR	0.47UF K	
C762	CK73HB1H271K	C CAPACITOR	270PF K	
C763	CK73HB1A473K	C CAPACITOR	0.047UF K	
C764	CK73HB1H271K	C CAPACITOR	270PF K	
C765	CK73HB1H271K	C CAPACITOR	270PF K	
C766	CK73HB1A474K	C CAPACITOR	0.47UF K	
C767	CK73GB0J225K	C CAPACITOR	2.2UF K	
C768	CK73GB0J225K	C CAPACITOR	2.2UF K	
C769	CK73HB1A474K	C CAPACITOR	0.47UF K	
C770	CK73HB1H271K	C CAPACITOR	270PF K	
C771	CK73HB1H271K	C CAPACITOR	270PF K	
C772	CC73HCH1H470J	C CAPACITOR	47PF J	
C773	CK73HB1H271K	C CAPACITOR	270PF K	
C774	CK73HB1H271K	C CAPACITOR	270PF K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C775	CK73HB1A104K	C CAPACITOR	0.10UF K	
C777	CK73HB1A683K	C CAPACITOR	0.068UF K	
C778	CK73HB1H271K	C CAPACITOR	270PF K	
C779	CK73GB0J106K	C CAPACITOR	10UF K	
C780	CK73HB1H271K	C CAPACITOR	270PF K	
C781	CK73HB1A104K	C CAPACITOR	0.10UF K	
C782	CK73HB1H271K	C CAPACITOR	270PF K	
C783	CK73GB1A105K	C CAPACITOR	1.0UF K	
C784	CK73GB1C225K	C CAPACITOR	2.2UF K	
C785	CK73GB0J106K	C CAPACITOR	10UF K	
C786	CK73HB1A224K	C CAPACITOR	0.22UF K	
C787	CK73HB1A104K	C CAPACITOR	0.10UF K	
C788	CK73FB0J226M	C CAPACITOR	22UF M	
C789	CC73HCH1H101J	C CAPACITOR	100PF J	
C790	CK73HB1A473K	C CAPACITOR	0.047UF K	
C791	CK73HB1A104K	C CAPACITOR	0.10UF K	
C792	CC73HCH1H101J	C CAPACITOR	100PF J	
C794	CK73HB1A683K	C CAPACITOR	0.068UF K	
C795	CK73GB1A105K	C CAPACITOR	1.0UF K	
C798	CK73HB1H271K	C CAPACITOR	270PF K	
C801	CK73GB1A105K	C CAPACITOR	1.0UF K	
C802	CK73HB1H271K	C CAPACITOR	270PF K	
C805	CK73HB1H271K	C CAPACITOR	270PF K	
C806	CK73HB1H271K	C CAPACITOR	270PF K	
C807	CK73HB1A104K	C CAPACITOR	0.10UF K	
C808	CK73EB0J476M	C CAPACITOR	47UF M	
C809	CK73EB0J476M	C CAPACITOR	47UF M	
C812	CK73HB1H271K	C CAPACITOR	270PF K	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C814	CK73HB1A104K	C CAPACITOR	0.10UF K	
C815	CK73HB1A105K	C CAPACITOR	1.0UF K	
C816	CK73HB1H271K	C CAPACITOR	270PF K	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
C851	CK73HB1A104K	C CAPACITOR	0.10UF K	
C852	CK73HB1H152K	C CAPACITOR	1500PF K	
C853	CK73HB1A104K	C CAPACITOR	0.10UF K	
C905	CK73HB1A104K	C CAPACITOR	0.10UF K	
C906	CK73HB1H103K	C CAPACITOR	0.010UF K	
C907	CK73HB1H103K	C CAPACITOR	0.010UF K	
C908	CK73HB0J105K	C CAPACITOR	1.0UF K	
C909	CK73HB1A104K	C CAPACITOR	0.10UF K	
C910	CK73HB0J225K	C CAPACITOR	2.2UF K	
C911	CK73HB1A104K	C CAPACITOR	0.10UF K	
C912	CK73HB0J225K	C CAPACITOR	2.2UF K	
C913	CK73HB1A104K	C CAPACITOR	0.10UF K	
C914	CK73HB1H103K	C CAPACITOR	0.010UF K	
C915	CK73HB1H103K	C CAPACITOR	0.010UF K	
C920	CK73HB1A104K	C CAPACITOR	0.10UF K	
C921	CK73HB1A104K	C CAPACITOR	0.10UF K	
C922	CK73HB1A104K	C CAPACITOR	0.10UF K	
C923	CK73HB1A104K	C CAPACITOR	0.10UF K	
C924	CK73GB1A105K	C CAPACITOR	1.0UF K	
C925	CK73HB1A105K	C CAPACITOR	1.0UF K	
C970	CK73HB1H102K	C CAPACITOR	1000PF K	
C971	CK73HB1A104K	C CAPACITOR	0.10UF K	
C980	CS77MB20J101M	TA E CAPACITOR	100UF 6.3WV	
C981	CK73HB0J475M	C CAPACITOR	4.7UF M	
C982	CK73HB0J105K	C CAPACITOR	1.0UF K	
C983	CK73HB1H102K	C CAPACITOR	1000PF K	
C984	CK73HB1H102K	C CAPACITOR	1000PF K	
C985	CK73HB1H102K	C CAPACITOR	1000PF K	
C986	CK73HB1H102K	C CAPACITOR	1000PF K	
C989	CK73HB1A104K	C CAPACITOR	0.10UF K	
C999	CK73HB1A104K	C CAPACITOR	0.10UF K	
R1	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R2	RK73HB1J334J	MG RESISTOR	330K J 1/16W	
R3	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R4	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R5	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R7	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R8	RK73HB1J331J	MG RESISTOR	330 J 1/16W	
R9	RK73HB1J394J	MG RESISTOR	390K J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M, NX-340_M2,NX-340_M3,NX-340_P
R9	RK73HB1J334J	MG RESISTOR	330K J 1/16W	NX-340_K3
R10	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R11	RK73HB1J122J	MG RESISTOR	1.2K J 1/16W	
R13	RK73HB1J100J	MG RESISTOR	10 J 1/16W	
R16	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R17	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R18	RK73HB1J152J	MG RESISTOR	1.5K J 1/16W	
R19	RK73HB1J391J	MG RESISTOR	390 J 1/16W	
R20	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R21	RK73HB1J105J	MG RESISTOR	1.0M J 1/16W	
R22	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R24	RK73HB1J474J	MG RESISTOR	470K J 1/16W	
R25	RK73HB1J105J	MG RESISTOR	1.0M J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R25	RK73HB1J106J	MG RESISTOR	10M J 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
R26	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R27	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R28	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R29	RK73HB1J220J	MG RESISTOR	22 J 1/16W	
R30	RK73HB1J154J	MG RESISTOR	150K J 1/16W	
R31	RK73HB1J333J	MG RESISTOR	33K J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R31	RK73HB1J154J	MG RESISTOR	150K J 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
R32	RK73HB1J472J	MG RESISTOR	4.7K J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R32	RK73HB1J332J	MG RESISTOR	3.3K J 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
R33	RK73HB1J124J	MG RESISTOR	120K J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R33	RK73HB1J563J	MG RESISTOR	56K J 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
R34	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R35	RK73HB1J680J	MG RESISTOR	68 J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R35	RK73HB1J151J	MG RESISTOR	150 J 1/16W	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
R35	RK73HB1J101J	MG RESISTOR	100 J 1/16W	NX-340_K3
R36	RK73HB1J151J	MG RESISTOR	150 J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R36	RK73HB1J221J	MG RESISTOR	220 J 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
R37	RK73HB1J100J	MG RESISTOR	10 J 1/16W	
R38	RK73HB1J100J	MG RESISTOR	10 J 1/16W	
R39	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R40	RK73HB1J154J	MG RESISTOR	150K J 1/16W	
R41	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R42	RK73HB1J682J	MG RESISTOR	6.8K J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R42	RK73HB1J123J	MG RESISTOR	12K J 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
R43	RK73HB1J562J	MG RESISTOR	5.6K J 1/16W	
R44	RK73HB1J220J	MG RESISTOR	22 J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
R44	RK73HB1J101J	MG RESISTOR	100 J 1/16W	NX-340_K3
R45	RK73HB1J331J	MG RESISTOR	330 J 1/16W	
R46	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
R48	RK73HB1J472J	MG RESISTOR	4.7K J 1/16W	
R51	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R52	RK73HB1J100J	MG RESISTOR	10 J 1/16W	
R53	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R54	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R55	RK73HB1J273J	MG RESISTOR	27K J 1/16W	
R56	RK73HB1J100J	MG RESISTOR	10 J 1/16W	
R58	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R200	RK73HB1J472J	MG RESISTOR	4.7K J 1/16W	
R202	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R210	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R211	RK73HB1J152J	MG RESISTOR	1.5K J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
R211	RK73HB1J821J	MG RESISTOR	820 J 1/16W	NX-340_K3
R212	RK73HB1J182J	MG RESISTOR	1.8K J 1/16W	
R213	RK73HB1J220J	MG RESISTOR	22 J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
R213	RK73HB1J330J	MG RESISTOR	33 J 1/16W	NX-340_K3
R214	RK73HB1J561J	MG RESISTOR	560 J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P

⚠ Symbol No.	Part No.	Part Name	Description	Local
R214	RK73HB1J331J	MG RESISTOR	330 J 1/16W	NX-340_K3
R215	RK73HB1J821J	MG RESISTOR	820 J 1/16W	
R217	RK73HB1J5R6J	MG RESISTOR	5.6 J 1/16W	
R219	RK73HB1J821J	MG RESISTOR	820 J 1/16W	
R222	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R223	RK73HB1J561J	MG RESISTOR	560 J 1/16W	
R224	RK73HB1J151J	MG RESISTOR	150 J 1/16W	
R225	RK73HB1J183J	MG RESISTOR	18K J 1/16W	
R226	RK73HB1J472J	MG RESISTOR	4.7K J 1/16W	
R227	RK73HB1J273J	MG RESISTOR	27K J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R227	RK73HB1J183J	MG RESISTOR	18K J 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
R228	RK73HB1J333J	MG RESISTOR	33K J 1/16W	
R229	RK73HB1J470J	MG RESISTOR	47 J 1/16W	
R230	RK73EB2ER39J	MG RESISTOR	0.39 K 1/4W	
R231	RK73EB2ER39J	MG RESISTOR	0.39 K 1/4W	
R232	RK73HB1J183J	MG RESISTOR	18K J 1/16W	
R233	RK73EB2ER39J	MG RESISTOR	0.39 K 1/4W	
R235	RK73HB1J182J	MG RESISTOR	1.8K J 1/16W	
R236	RK73HB1J150J	MG RESISTOR	15 J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R236	RK73HB1J151J	MG RESISTOR	150 J 1/16W	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
R236	RK73HB1J331J	MG RESISTOR	330 J 1/16W	NX-340_K3
R237	RK73HH1J154D	MG RESISTOR	150K D 1/16W	
R238	RK73HH1J154D	MG RESISTOR	150K D 1/16W	
R239	RK73HB1J183J	MG RESISTOR	18K J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
R239	RK73HB1J153J	MG RESISTOR	15K J 1/16W	NX-340_K3
R241	RK73HH1J474D	MG RESISTOR	470K D 1/16W	
R242	RK73HH1J474D	MG RESISTOR	470K D 1/16W	
R243	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R244	RK73HB1J563J	MG RESISTOR	56K J 1/16W	
R246	RK73HB1J474J	MG RESISTOR	470K J 1/16W	
R247	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R248	RK73HB1J105J	MG RESISTOR	1.0M J 1/16W	
R249	RK73HB1J271J	MG RESISTOR	270 J 1/16W	
R250	RK73FB2B000J	MG RESISTOR	0.0 J 1/8W	
R251	RK73HB1J271J	MG RESISTOR	270 J 1/16W	
R252	RK73GB2A000J	MG RESISTOR	0.0 J 1/10W	
R253	RK73GB2A823J	MG RESISTOR	82K J 1/10W	
R254	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R400	RK73HB1J334J	MG RESISTOR	330K J 1/16W	
R401	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R403	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
R404	RK73HB1J564J	MG RESISTOR	560K J 1/16W	
R405	RK73HB1J474J	MG RESISTOR	470K J 1/16W	
R407	RK73HB1J332J	MG RESISTOR	3.3K J 1/16W	
R408	RK73HB1J332J	MG RESISTOR	3.3K J 1/16W	
R409	RK73HB1J563J	MG RESISTOR	56K J 1/16W	
R412	RK73HB1J100J	MG RESISTOR	10 J 1/16W	
R413	RK73HB1J184J	MG RESISTOR	180K J 1/16W	
R414	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R417	RK73HB1J684J	MG RESISTOR	680K J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R417	RK73HB1J564J	MG RESISTOR	560K J 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
R418	RK73HB1J564J	MG RESISTOR	560K J 1/16W	
R419	RK73HB1J121J	MG RESISTOR	120 J 1/16W	
R420	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R421	RK73HB1J470J	MG RESISTOR	47 J 1/16W	
R422	RK73HB1J472J	MG RESISTOR	4.7K J 1/16W	
R423	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
R424	RK73HB1J391J	MG RESISTOR	390 J 1/16W	
R425	RK73HB1J563J	MG RESISTOR	56K J 1/16W	
R426	RK73HB1J124J	MG RESISTOR	120K J 1/16W	
R427	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R428	RK73HB1J563J	MG RESISTOR	56K J 1/16W	
R429	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R430	RK73HB1J474J	MG RESISTOR	470K J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
R430	RK73HB1J104J	MG RESISTOR	100K J 1/16W	NX-340_K3
R433	RK73HB1J562J	MG RESISTOR	5.6K J 1/16W	
R434	RK73HB1J100J	MG RESISTOR	10 J 1/16W	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R435	RK73HB1J181J	MG RESISTOR	180 J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
R435	RK73HB1J271J	MG RESISTOR	270 J 1/16W	NX-340_K3
R436	RK73HB1J474J	MG RESISTOR	470K J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
R436	RK73HB1J333J	MG RESISTOR	33K J 1/16W	NX-340_K3
R438	RK73HB1J104J	MG RESISTOR	100K J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
R438	RK73HB1J563J	MG RESISTOR	56K J 1/16W	NX-340_K3
R439	RK73HB1J823J	MG RESISTOR	82K J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R439	RK73HB1J184J	MG RESISTOR	180K J 1/16W	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
R439	RK73HB1J474J	MG RESISTOR	470K J 1/16W	NX-340_K3
R440	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R441	RK73HH1J473D	MG RESISTOR	47K D 1/16W	
R444	RK73HB1J474J	MG RESISTOR	470K J 1/16W	
R449	RK73HB1J224J	MG RESISTOR	220K J 1/16W	
R450	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R451	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R452	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R453	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R454	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R455	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R460	RK73HB1J105J	MG RESISTOR	1.0M J 1/16W	
R600	RK73GB2A221J	MG RESISTOR	220 J 1/10W	
R601	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R602	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R603	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R604	RK73GB2A331J	MG RESISTOR	330 J 1/10W	
R605	RK73HB1J223J	MG RESISTOR	22K J 1/16W	
R606	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R607	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R608	RK73GB2A271J	MG RESISTOR	270 J 1/10W	
R609	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R610	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R611	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R612	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R613	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R614	RK73HH1J824D	MG RESISTOR	820K D 1/16W	
R615	RK73HH1J394D	MG RESISTOR	390K D 1/16W	
R616	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R701	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
R702	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
R703	RK73HB1J153J	MG RESISTOR	15K J 1/16W	
R705	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R708	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R709	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
R710	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R711	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
R712	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R715	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R718	RK73HB1J820J	MG RESISTOR	82 J 1/16W	
R720	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R723	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R725	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R726	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R736	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R737	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R740	RK73HB1J472J	MG RESISTOR	4.7K J 1/16W	
R744	RK73HB1J150J	MG RESISTOR	15 J 1/16W	
R746	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
R748	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R751	RK73HB1J105J	MG RESISTOR	1.0M J 1/16W	
R752	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R755	RK73HB1J564J	MG RESISTOR	560K J 1/16W	
R756	RK73HB1J100J	MG RESISTOR	10 J 1/16W	
R757	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R759	RK73HB1J153J	MG RESISTOR	15K J 1/16W	
R760	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R762	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R763	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R764	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R765	RK73HB1J273J	MG RESISTOR	27K J 1/16W	
R766	RK73HB1J334J	MG RESISTOR	330K J 1/16W	
R767	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R768	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R769	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R770	RK73HB1J124J	MG RESISTOR	120K J 1/16W	
R772	RK73HB1J154J	MG RESISTOR	150K J 1/16W	
R773	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R774	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R775	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R776	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
R777	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R778	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	NX-340_K3
R780	RK73HB1J474J	MG RESISTOR	470K J 1/16W	
R781	RK73HB1J682J	MG RESISTOR	6.8K J 1/16W	
R782	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R783	RK73HB1J272J	MG RESISTOR	2.7K J 1/16W	
R784	RK73HB1J123J	MG RESISTOR	12K J 1/16W	
R785	RK73HB1J123J	MG RESISTOR	12K J 1/16W	
R786	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R787	RK73HB1J105J	MG RESISTOR	1.0M J 1/16W	
R788	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R789	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R790	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R792	RK73HB1J471J	MG RESISTOR	470 J 1/16W	
R793	RK73HB1J182J	MG RESISTOR	1.8K J 1/16W	
R794	RK73HB1J152J	MG RESISTOR	1.5K J 1/16W	
R795	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R796	RK73HB1J561J	MG RESISTOR	560 J 1/16W	
R797	RK73HH1J274D	MG RESISTOR	270K D 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R797	RK73HH1J334D	MG RESISTOR	330K D 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
R798	RK73HH1J124D	MG RESISTOR	120K D 1/16W	NX-340_K,NX-340(U)_K,NX-340_M
R798	RK73HH1J154D	MG RESISTOR	150K D 1/16W	NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
R800	RK73HB1J183J	MG RESISTOR	18K J 1/16W	
R801	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R802	RK73HB1J474J	MG RESISTOR	470K J 1/16W	
R803	RK73HB1J331J	MG RESISTOR	330 J 1/16W	
R804	RK73HB1J124J	MG RESISTOR	120K J 1/16W	
R805	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R806	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R807	RK73HB1J332J	MG RESISTOR	3.3K J 1/16W	
R809	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R810	RK73HB1J334J	MG RESISTOR	330K J 1/16W	
R811	RK73HB1J274J	MG RESISTOR	270K J 1/16W	
R812	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R813	RK73HB1J823J	MG RESISTOR	82K J 1/16W	
R814	RK73HB1J273J	MG RESISTOR	27K J 1/16W	
R815	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R816	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R817	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R824	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R825	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R826	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R828	RK73HB1J333J	MG RESISTOR	33K J 1/16W	
R850	RK73GB2A000J	MG RESISTOR	0.0 J 1/10W	
R852	RK73HB1J123J	MG RESISTOR	12K J 1/16W	
R853	RK73HB1J123J	MG RESISTOR	12K J 1/16W	
R857	RK73HB1J100J	MG RESISTOR	10 J 1/16W	
R860	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R901	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R902	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R903	RK73HB1J220J	MG RESISTOR	22 J 1/16W	
R904	RK73HB1J820J	MG RESISTOR	82 J 1/16W	
R905	RK73HB1J474J	MG RESISTOR	470K J 1/16W	
R907	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R960	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R970	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R977	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R978	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R979	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R983	RK73GB2A000J	MG RESISTOR	0.0 J 1/10W	
R984	RK73GB2A000J	MG RESISTOR	0.0 J 1/10W	
R987	RK73GB2A000J	MG RESISTOR	0.0 J 1/10W	
R988	RK73GB2A000J	MG RESISTOR	0.0 J 1/10W	
R991	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R992	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R993	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R994	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R995	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R996	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R997	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
L1	L41-4795-39	SMALL FIXED INDUCTOR (4.7UH)		
L2	L92-0442-05	CHIP FERRITE		
L3	L92-0163-05	BEADS CORE		
L4	L40-6865-71	SMALL FIXED INDUCTOR (6.8NH)		NX-340_K,NX-340(U)_K,NX-340_M
L4	L40-1575-71	SMALL FIXED INDUCTOR (15NH)		NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
L7	L41-1885-53	SMALL FIXED INDUCTOR (0.18UH)		
L8	L41-1885-53	SMALL FIXED INDUCTOR (0.18UH)		
L9	L40-2275-71	SMALL FIXED INDUCTOR (22NH)		
L12	L41-1885-53	SMALL FIXED INDUCTOR (0.18UH)		
L13	L41-2285-53	SMALL FIXED INDUCTOR (0.22UH)		
L14	L41-2285-53	SMALL FIXED INDUCTOR (0.22UH)		
L15	L41-1578-14	SMALL FIXED INDUCTOR (15NH)		NX-340_K,NX-340(U)_K,NX-340_M
L15	L41-2278-14	SMALL FIXED INDUCTOR (22NH)		NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
L15	L41-3378-14	SMALL FIXED INDUCTOR (33NH)		NX-340_K3
L16	L41-1878-14	SMALL FIXED INDUCTOR (18NH)		NX-340_K,NX-340(U)_K,NX-340_M
L16	L41-2278-14	SMALL FIXED INDUCTOR (22NH)		NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
L16	L41-3378-14	SMALL FIXED INDUCTOR (33NH)		NX-340_K3
L17	L92-0163-05	BEADS CORE		
L18	L41-2785-53	SMALL FIXED INDUCTOR (0.27UH)		
L19	L41-2785-53	SMALL FIXED INDUCTOR (0.27UH)		
L21	L41-2285-53	SMALL FIXED INDUCTOR (0.22UH)		
L23	L41-1885-53	SMALL FIXED INDUCTOR (0.18UH)		
L24	L40-2775-71	SMALL FIXED INDUCTOR (27NH)		
L25	L40-2775-71	SMALL FIXED INDUCTOR (27NH)		
L26	L40-8265-71	SMALL FIXED INDUCTOR (8.2NH)		NX-340_K,NX-340(U)_K,NX-340_M
L26	L40-6865-71	SMALL FIXED INDUCTOR (6.8NH)		NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
L27	L41-1885-53	SMALL FIXED INDUCTOR (0.18UH)		NX-340_K,NX-340(U)_K,NX-340_M
L27	L41-2785-53	SMALL FIXED INDUCTOR (0.27UH)		NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
L204	L40-8265-71	SMALL FIXED INDUCTOR (8.2NH)		NX-340_K,NX-340(U)_K,NX-340_M
L204	L40-1075-71	SMALL FIXED INDUCTOR (10NH)		NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
L205	L40-3375-71	SMALL FIXED INDUCTOR (33NH)		
L206	L92-0162-05	BEADS CORE		
L207	L40-1275-71	SMALL FIXED INDUCTOR (12NH)		
L208	L34-4574-05	AIR-CORE COIL		
L209	L92-0149-05	CHIP FERRITE		
L211	L40-1263-92	SMALL FIXED INDUCTOR (1.2NH)		NX-340_K,NX-340(U)_K,NX-340_M
L211	L40-1563-92	SMALL FIXED INDUCTOR (1.5NH)		NX-340_K2,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
L211	L40-2763-92	SMALL FIXED INDUCTOR (2.7NH)		NX-340_K3
L212	L92-0149-05	CHIP FERRITE		
L213	L34-4565-05	AIR-CORE COIL		
L216	L41-2285-43	SMALL FIXED INDUCTOR (220NH)		
L217	L34-4564-05	AIR-CORE COIL		
L218	L34-4563-05	AIR-CORE COIL		
L219	L34-4565-05	AIR-CORE COIL		
L220	L34-4564-05	AIR-CORE COIL		
L400	L41-1885-53	SMALL FIXED INDUCTOR (0.18UH)		
L401	L40-1085-71	SMALL FIXED INDUCTOR (100NH)		
L402	L40-1591-86	SMALL FIXED INDUCTOR (1.5UH)		
L403	L92-0138-05	CHIP FERRITE		
L404	L41-6885-39	SMALL FIXED INDUCTOR (0.68UH)		
L405	L40-1575-71	SMALL FIXED INDUCTOR (15NH)		NX-340_K,NX-340(U)_K,NX-340_M
L405	L40-1275-71	SMALL FIXED INDUCTOR (12NH)		NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P
L406	L41-2285-53	SMALL FIXED INDUCTOR (0.22UH)		
L407	L40-1575-71	SMALL FIXED INDUCTOR (15NH)		NX-340_K,NX-340(U)_K,NX-340_M
L407	L40-1275-71	SMALL FIXED INDUCTOR (12NH)		NX-340_K2,NX-340_K3,NX-340(U)_K2,NX-340_M2,NX-340_M3,NX-340_P

⚠ Symbol No.	Part No.	Part Name	Description	Local
L408	L40-1875-92	SMALL FIXED INDUCTOR (18NH)		NX-340_K,NX-340(U)_K,NX-340_M
L408	L40-2775-92	SMALL FIXED INDUCTOR (27NH)		NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
L410	L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)		
L411	L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)		
L412	L92-0138-05	CHIP FERRITE		
L413	L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)		
L414	L41-2785-14	SMALL FIXED INDUCTOR (270NH)		
L415	L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)		
L416	L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)		
L417	L41-5678-14	SMALL FIXED INDUCTOR (56NH)		NX-340_K,NX-340(U)_K,NX-340_M
L417	L41-6878-14	SMALL FIXED INDUCTOR (68NH)		NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
L420	L40-1875-71	SMALL FIXED INDUCTOR (18NH)		NX-340_K,NX-340(U)_K,NX-340_M
L420	L40-8265-71	SMALL FIXED INDUCTOR (8.2NH)		NX-340_K2,NX-340_K3,NX-340(U)_K2, NX-340_M2,NX-340_M3,NX-340_P
L600	L92-0472-05	CHIP FERRITE		
L601	L92-0138-05	CHIP FERRITE		
L700	L92-0161-05	BEADS CORE		
L701	L92-0161-05	BEADS CORE		
L702	L92-0161-05	BEADS CORE		
L901	L92-0163-05	BEADS CORE		
L902	L92-0163-05	BEADS CORE		
L903	L92-0163-05	BEADS CORE		
CN600	E40-6922-05	FLAT CABLE CONNECTOR		
CN912	E23-1167-05	TERMINAL		
CN913	E23-1167-05	TERMINAL		
CN914	E23-1167-05	TERMINAL		
CN915	E23-1167-05	TERMINAL		
CN916	E23-1167-05	TERMINAL		
CN917	E23-1167-05	TERMINAL		
CN918	E23-1167-05	TERMINAL		
CN919	E23-1167-05	TERMINAL		
CN920	E23-1167-05	TERMINAL		
CN921	E23-1167-05	TERMINAL		
CP1	RK75HA1J101J	CHIP-COM	100 J 1/16W	
CP20	RK75HA1J473J	CHIP-COM	47K J 1/16W	
CP21	RK75HA1J473J	CHIP-COM	47K J 1/16W	
CP22	RK75HA1J102J	CHIP-COM	1.0K J 1/16W	
CP23	RK75HA1J473J	CHIP-COM	47K J 1/16W	
CP24	RK75HA1J102J	CHIP-COM	1.0K J 1/16W	
CP25	RK75HA1J473J	CHIP-COM	47K J 1/16W	
CP26	RK75HA1J103J	CHIP-COM	10K J 1/16W	
CP27	RK75HA1J474J	CHIP-COM	470K J 1/16W	
CP28	RK75HA1J103J	CHIP-COM	10K J 1/16W	
CP401	RK75HA1J474J	CHIP-COM	470K J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
CP401	RK75HA1J104J	CHIP-COM	100K J 1/16W	NX-340_K3
CP402	RK75HA1J474J	CHIP-COM	470K J 1/16W	NX-340_K,NX-340_K2,NX-340(U)_K, NX-340(U)_K2,NX-340_M,NX-340_M2,NX-340_M3,NX-340_P
CP402	RK75HA1J104J	CHIP-COM	100K J 1/16W	NX-340_K3
F600	F53-0324-15	FUSE	(2.5A)	
F601	F53-0319-15	FUSE	(1A)	
J601	E11-0703-05	PHONE JACK	(SP/MIC)	
S601	S70-0414-05	TACT SWITCH		
S602	S70-0414-05	TACT SWITCH		
S603	S70-0414-05	TACT SWITCH		
TH200	ERTJ0EV104J	THERMISTOR		
TH400	NCP18WM224J03	THERMISTOR		
X1	L77-3128-05	TCXO	(16.8MHZ)	
X2	L77-3129-05	TCXO	(19.2MHZ)	
XF400	L71-0684-05	MCF	(49.95MHZ)	

Packing materials and accessories parts list

Illstration is
NX-340(K,K2,K3,P,M3)
and NX-340(U)(K,K2).
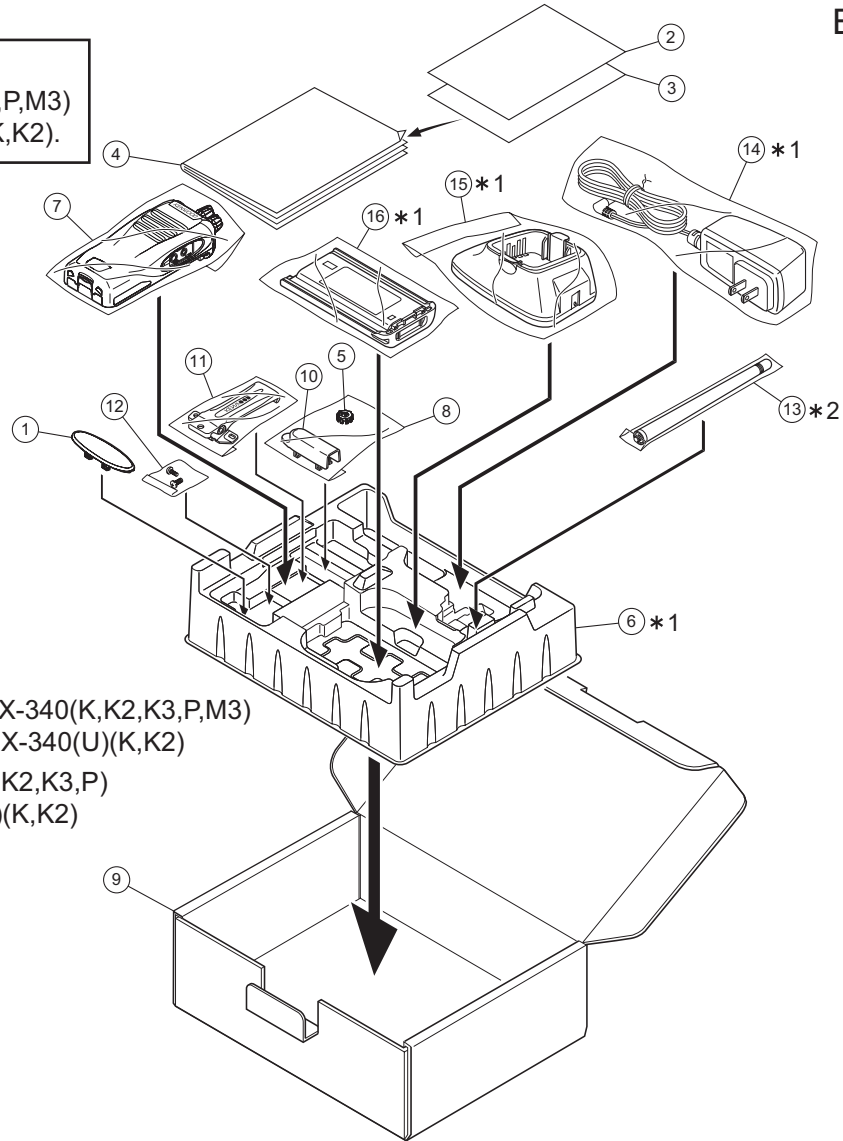
* 1 ⑥,⑭,⑮,⑯ : NX-340(K,K2,K3,P,M3)
/NX-340(U)(K,K2)

* 2 ⑬ : NX-340(K,K2,K3,P)
/NX-340(U)(K,K2)

Packing and accessories

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	B09-0758-03	CAP(SP/MIC)		
2	------------	PAMPHLET(SAR)		
3	------------	PAMPHLET(VOCODER)		
4	B62-2580-00	INSTRUCTION MANUAL		NX-340_K,NX-340_K2,NX-340_K3,NX-340(U)_K,NX-340(U)_K2,NX-340_P
4	B62-2581-00	INSTRUCTION MANUAL		NX-340_M,NX-340_M2,NX-340_M3
5	D32-0456-03	STOPPER(SELECTOR)		
6	H12-4319-05	PACKING FIXTURE		NX-340_K,NX-340_K2,NX-340_K3,NX-340(U)_K,NX-340(U)_K2,NX-340_M3,NX-340_P
7	------------	PROTECTION BAG (100/200/0.07)		
8	------------	PROTECTION BAG		
9	H52-2589-01	ITEM CARTON CASE		NX-340_K,NX-340_K2,NX-340_K3,NX-340(U)_K,NX-340(U)_K2,NX-340_M3,NX-340_P
9	H52-2588-01	ITEM CARTON CASE		NX-340_M,NX-340_M2
10	J19-5577-03	HOLDER(SP/MIC)		
11	J29-0734-15	BELT CLIP		
12	N99-2089-05	SCREW SET		
13	T90-1032-65	HELICAL ANTENNA		NX-340_K3
13	T90-1039-25	WHIP ANTENNA		NX-340_K,NX-340_K2,NX-340(U)_K,NX-340(U)_K2,NX-340_P
14	W08-1247-25	AC ADAPTER		NX-340_K,NX-340_K2,NX-340_K3,NX-340(U)_K,NX-340(U)_K2
14	W08-1327-05	AC ADAPTER		NX-340_M3
14	W08-1326-05	AC ADAPTER		NX-340_P
15	W08-1249-45	CHARGER		NX-340_K,NX-340_K2,NX-340_K3,NX-340(U)_K,NX-340(U)_K2
15	W08-1331-05	CHARGER		NX-340_M3,NX-340_P
16	------------	BATTERY ASSY(KNB-45L)		NX-340_K,NX-340_K2,NX-340_K3,NX-340(U)_K,NX-340(U)_K2,NX-340_P
16	------------	BATTERY ASSY(KNB-53N)		NX-340_M3

MEMO

KENWOOD