KENWOOD

SERVICE MANUAL

VHF DIGITAL TRANSCEIVER

NX-5700, NX-5700(B)

NX-5700 is a model that operation panel is attached. NX-5700(B) is a model that operation panel is not attached. The illustration is NX-5700.

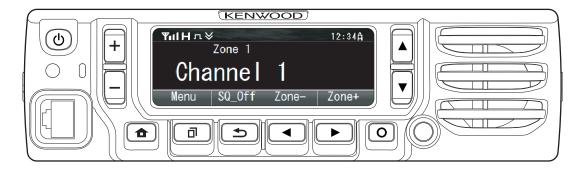


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REVISED

This service manual has been revised due to the addition of NX-5700 type E.



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

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Transceivers containing AMBE+2™ Vocoder:

The AMBE+2™ voice coding technology is embedded in the firmware under the license of Digital Voice Systems, Inc.

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NOTE

- This equipment should be serviced by only qualified technicians.
- Danger of explosion if the battery is incorrectly replaced; replace only with the same type.
- · To dispose of batteries, be sure to comply with the laws and regulations in your country or region.

Service Manual List

| Manual number | Model name | Destination | Serial number | Main unit number | Remarks | |
|------------------------------|------------|-------------|-------------------|------------------------------|---------------------|--|
| No.RA020 <rev.001></rev.001> | NX-5700 | K | | XC1-0381-80/ | First edition | |
| | NX-5700(B) | F,K | - | XC1-0400-10 (J7C-0035-00) | | |
| No.RA020 <rev.002></rev.002> | NX-5700 | К | From B5910001 | XC1-0381-80/ | Revised | |
| | NX-5700(B) | F,K | F10111 B39 1000 1 | XC1-0400-10 | This service manual | |
| | NX-5700 | E | - | (J7C-0035-10) | | |

SPECIFICATION

(F,K TYPE)

| (F,K TIPE) | | | | | |
|---------------------------|------------------------------|--|--|--|--|
| GENERAL | | | | | |
| Frequency Range | | 136~174MHz | | | |
| Max. Channels per Radio | | 1024 (Up to 4000 CH with option) | | | |
| Number of Zones | | 128 | | | |
| Max. Channels per Zone | | 512 | | | |
| Channel Spacing | Analog | 12.5 / 15 / 25* / 30* kHz | | | |
| | Digital | 6.25 / 12.5 kHz | | | |
| Operating Voltage | • | 13.6V DC ±15% | | | |
| Operating Temperature Rai | nge | -22°F to +140°F (-30°C to +60°C) | | | |
| Frequency Stability | | ±1.0ppm | | | |
| Dimensions (W x H x D) | Radio w/Control Head | 6.73 x 1.89 x 6.93 in. (171 x 48 x 176 mm) | | | |
| Weight (net) | Radio w/Control Head | 3.53 lbs (1.6 kg) | | | |
| RECEIVER | • | | | | |
| Sensitivity | NXDN 6.25kHz Digital (3%BER) | 0.20μV | | | |
| | NXDN 12.5kHz Digital (3%BER) | 0.25μV | | | |
| | P25 Digital (5% BER) | 0.25μV | | | |
| | P25 Digital (1% BER) | 0.40μV | | | |
| | Analog (12dB SINAD) | 0.25μV | | | |
| Selectivity | P25 Digital | 63dB | | | |
| | Analog @ 12.5kHz | 71dB | | | |
| | Analog @ 25kHz | 81dB | | | |
| Intermodulation | | 80dB | | | |
| Spurious Rejection | | 85dB | | | |
| Audio Distortion | | Less than 2% | | | |
| Audio Output | | $4W$ / 4Ω (Remote Control Head: $3W$ / 4Ω) | | | |
| TRANSMITTER | | · | | | |
| RF Power Output | | 50W to 5W | | | |
| Spurious Emission | | -73dB | | | |
| FM Hum & Noise | Analog @ 12.5kHz | 45dB | | | |
| | Analog @ 25kHz | 50dB | | | |
| Audio Distortion | | Less than 2% | | | |
| Modulation | | 16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K10F1W, 8K10F1E, 8K10F1D | | | |

^{*25} and 30 kHz are not included in the models sold in the USA or US territories.

Analog measurements made per TIA 603 and specifications shown are typical.

P25 Digital measurements made per TIA 102CAAA and specifications shown are typical.

JVC KENWOOD Corporation reserves the right to change specifications without prior notice or obligation.

SPECIFICATION

(E TYPE)

| (= : : : = / | | | | | |
|---------------------------|----------------------------|--------------------|---|--|--|
| GENERAL | | | | | |
| Frequency Range | | 136 ~ 174 MHz | | | |
| Max. Channels per Radio | | | 1024 (Up to 4000 CH with option) | | |
| Number of Zones | | 128 | | | |
| Max. Channels per Zone | | 512 | | | |
| Channel Spacing | Analogue | 12.5 / 20 / 25 kHz | | | |
| | Digital | | 6.25 / 12.5 kHz | | |
| Operating Voltage | <u>.</u> | | 13.2 V DC (10.8~15.6 V DC) | | |
| Operating Temperature Rar | nge | | -30°C to +60°C | | |
| Frequency Stability | | | ±1.0ppm | | |
| Antenna Impedance | | | 50Ω | | |
| Dimensions (W x H x D) | Radio w/Control Hea | d | 171 x 48 x 176 mm | | |
| Weight (net) | Radio w/Control Hea | d | 1.6 kg | | |
| RECEIVER | <u>.</u> | | | | |
| Sensitivity | Analogue | 12dB SINAD | 0.32 μV / 0.28 μV | | |
| | @ 12.5/20&25 kHz | 20dB SINAD | -1 dB μV (0.45 μV) / -3 dB μV (0.35 μV) | | |
| | Digital @ 6.25/12.5 KHz | NXDN 3% BER | 0.25 μV / 0.32 μV | | |
| | | NXDN 1% BER | -4 dB μV (0.32 μV) / -1 dB μV (0.45 μV) | | |
| | | P25 5% BER | 0.28 μV | | |
| Selectivity | P25 Digital | • | 63dB | | |
| | Analogue @ 12.5 kH | Z | 70dB | | |
| | Analogue @ 20 kHz | | 78dB | | |
| | Analogue @ 25 kHz | | 80dB | | |
| Intermodulation | Analogue | | 70dB | | |
| Spurious Rejection | Analogue | | 80dB | | |
| Audio Distortion | • | | Less than 2% | | |
| Audio Output | | | $4W$ / 4Ω (Remote Control Head: $3W$ / 4Ω) | | |
| TRANSMITTER | | | | | |
| RF Power Output | | | 25W to 1W | | |
| Spurious Emission | | | -36dBm ≤ 1GHz,-30dBm > 1GHz | | |
| FM Hum & Noise | Analogue @ 25kHz | | 50dB | | |
| | Analogue @ 20kHz | | 50dB | | |
| Analogue @ 12.5kHz | | | 45dB | | |
| Audio Distortion | · | Less than 2% | | | |
| Modulation | | | 16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 11K0F3E, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 8K10F1E, 8K10F1D, 8K10F1W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D | | |

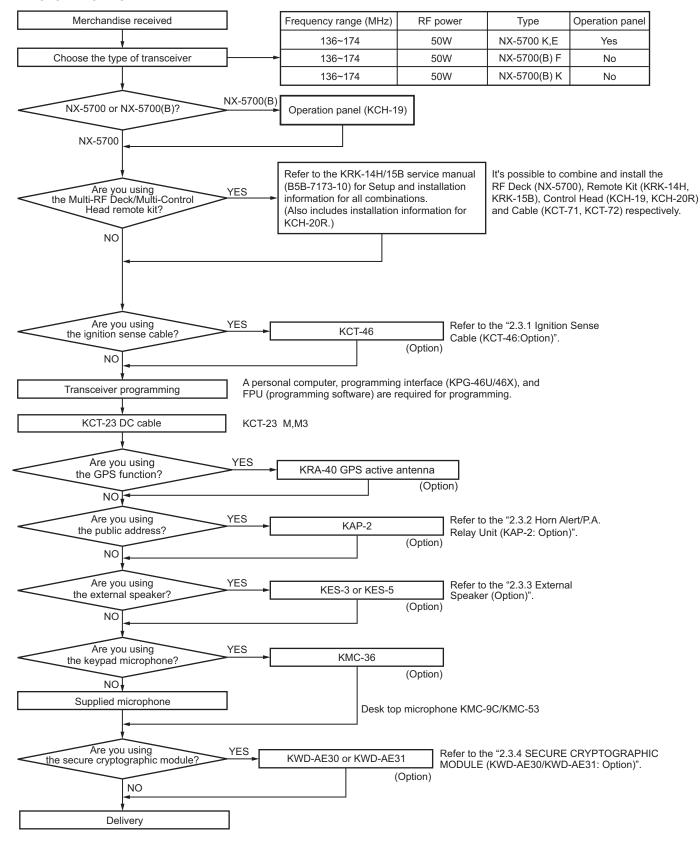
Analogue measurements made per EN standards or TIA/EIA 603 and specifications shown are typical. P25 digital measurements made per TIA 102CAAA and specifications shown are typical. JVC KENWOOD Corporation reserves the right to change specifications without prior notice or obligation.

SECTION 1 PRECAUTION

This service manual does not describe PRECAUTION.

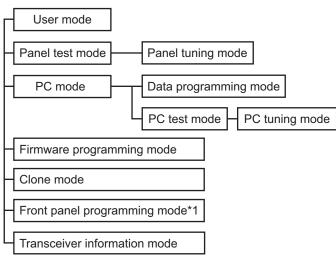
SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

2.1 SYSTEM SET-UP



2.2 REALIGNMENT

2.2.1 **Modes**



^{*1:}In order to use the Front panel programming mode, it is necessary to purchase the "Front panel program" feature option.

| Mode | Function | | | |
|-----------------------------------|--|--|--|--|
| User mode | For normal use. | | | |
| Panel test mode | Used by the dealer to check the fundamental characteristics. | | | |
| Panel tuning mode | Used by the dealer to tune the transceiver. | | | |
| PC mode | Used for 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. | | | |
| Firmware program- ming mode | Used when changing the main program of the flash memory. | | | |
| Clone mode | Used to transfer programming data from one transceiver to another. | | | |
| Front panel pro- gramming mode | Frequency, signaling and features write to the transceiver. | | | |
| Transceiver information mode | Used to confirm the transcerver firmware version, SCM firmware version and SCM Hardware version. | | | |

2.2.2 How to Enter Each Mode

| Mode | Operation |
|-------------------|--|
| User mode | Power ON |
| Panel test mode*2 | • [★] + Power ON |
| | • [] + Power ON Select the "Panel Test" using the [▲] / [▼] key. Press the [] key. |
| PC mode | Received commands from PC |
| Panel tuning mode | [Panel test mode] + [🛅] |

| Mode | Operation |
|--------------------------------|---|
| | • [AUX (Orange)] + Power ON |
| mode*2 | • [☐] + Power ON Select the "Firmware Prog" using the [▲] / [▼] key. Press the [☐]] key. |
| | If Write is performed by KFL, Firm- ware programming mode will start automatically. |
| Clone mode*2 | • [O] + Power ON |
| | • [☐] + Power ON Select the "Clone" using the [▲] / [▼] key. Press the [☐] key. |
| Front panel programming mode*2 | Press the PF key to which Front pan- el programming mode is set during the user mode. |
| | Press the [|
| Transceiver | • [+] + Power ON |
| information mode*2 | • [☐] + Power ON Select the "Transceiver Info" using the [▲] / [▼] key. Press the [☐]] key. |

^{*2} There is the two or three as how to enter.

2.2.3 Panel Test Mode

Setting method refer to ADJUSTMENT.

2.2.4 Panel Tuning Mode

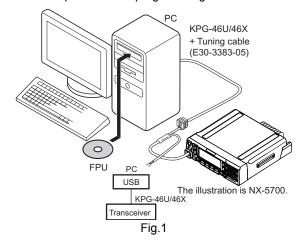
Setting method refer to ADJUSTMENT.

2.2.5 PC Mode

2.2.5.1 Preface

The transceiver is programmed by using a personal computer, programming interface (KPG-46U/46X) and FPU (programming software).

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



2.2.5.2 Connection procedure

(1) Connects the transceiver to the computer using the interface cable (KPG-46U/46X).

Note:

You must install the KPG-46U/46X driver in the computer to use the USB programming interface cable (KPG-46LI/46X)

(2) When the POWER switch on, user mode can be entered immediately. When PC sends command the transceiver enter PC mode, and "PROGRAM" is displayed on the LCD. When data transmitting from the transceiver, the red LED lights.

When data receiving to the transceiver, the green LED lights.

Note:

The data stored in the computer must match the "Model Name" when it is written into the flash memory.

2.2.5.3 KPG-46U/46X description (USB programming interface cable: Option)

The KPG-46U/46X is a cable which connects to a USB port on a computer.

When using the KPG-46U/46X, install the supplied CD (with driver software) in the computer. The KPG-46U driver runs under Windows XP, Vista, 7, 8 or 8.1.

The KPG-46X driver runs under Windows Vista, 7, 8 or 8.1.

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.)

2.2.5.4 Programming software KPG-D1/D1N (Ver. 1.60 or later) description

The FPU is the programming software for the transceiver supplied on a CD. This software runs under Windows Vista, 7, 8 or 8.1 on a PC.

The data can be input to or read from the transceiver and edited on the screen.

Note:

KPG-D1N can't be used for E type.

2.2.6 Firmware Programming Mode

2.2.6.1 Preface

Flash memory is mounted on the transceiver. This allows the transceiver to be upgrade when new features are released in the future. (For details on how to obtain the firmware, contact Customer Service.)

2.2.6.2 Connection procedure

Connect the transceiver to the personal computer using the programming interface (KPG-46U/46X). (Connection is same as in the PC mode.)

2.2.6.3 Programming

- (1) Start up the firmware programming software (KENWOOD Firmware Loader). The KFL.exe exists in the KPG-D1/D1N installed folder.
- (2) Set the baud rate to "auto" or 1152000, 576000, 115200, and 57600.
- (3) Set the firmware to be upgrade by file name item.
- (4) Enter the Firmware programming mode by using section "2.2.2 How to Enter Each Mode". Then, the yellow LED on the transceiver light and "FIRMWARE PROG" is displayed.
- (5) Check the connection between the transceiver and the personal computer, and make sure that the transceiver is in the Program mode.

- (6) Press "Write" button in the window. When the transceiver starts to receive data, the "LOADING" display lights.
- (7) If writing ends successfully, the checksum is calculated and a result is displayed.
- (8) If you want to continue programming other transceivers, repeat step (4) to (7).

Note:

If write is perfored by KFL, Firmware programming mode will start automatically even if Firmware programming is set to disable in the programming software.

2.2.6.4 **Function**

If you press the [\bigcirc] key while "FIRMWARE PROG" is displayed, the checksum is calculated, and a result is displayed. If you press the [\bigcirc] key again while checksum is displayed, "FIRMWARE PROG" is redisplayed.

2.2.7 Clone Mode

Programming data can be transferred from one transceiver to another by connecting them via their modular microphone jacks. The operation is as follows.

■The following data cannot be cloned.

- Tuning data
- · Embedded message with password
- ESN (Electronic Serial Number) data

■Key guide on the Clone/ Front Panel Programming Password input screen.

- Confirm ([☐] key): The password confirmation
- Delete ([____] key): Delete the latest digit from the current password number (Press and hold to delete all password numbers)
- Select([]] key): Determine the latest digit of the password number.
- (1) In the source transceiver, enter the clone mode by using section "2.2.2 How to Enter Each Mode". When the Clone/ Front Panel Programming Password is set to the transceiver, "Input Password" is displayed on the LCD.
 - If the password is not set, the transceiver displays "CLONE MODE".
- (2) When you enter the correct password, "CLONE MODE" is displayed, the transceiver can be used as the cloning source. The following describes how to enter the password.

(3

- How to enter the password using the MIC keypad;

If one of the keys 0 to 9 is pressed while the "Input Password" is displayed, the password number is displayed on the LCD.

Each press of the key shifts the display in order to the left.

When you enter the password and press [] or [*] key, "CLONE MODE" displayed if the entered password is correct. If password is incorrect, "Input Password" is redisplayed.

- How to enter password using the [▲] and [▼] keys;

If the [▲] / [▼] key is pressed while "Input Password" is displayed, the Clone/ Front Panel Programming Password input screen is displayed.

If the [▲] or [▼] key is pressed while the clone/ Front Panel Programming Password input screen is displayed, the number (0 to 9) blinks on the LCD. When you press the [☐]] key, currently selected number is determined. If you press the [☐]] key after entering password in this procedure, "CLONE MODE" is displayed if entered password is correct. If the password is incorrect, "Input Password" is redisplayed.

- (4) Power ON the target transceiver.
- (5) Connecting the cloning cable (part No.E30-3382-05) to the modular microphone jacks on the source and target.
- (6) Press [] levy on the source while the source displays "CLONE MODE". The data of the source is sent to the target. While the target is receiving the data, "PROGRAM" is displayed. When cloning of the data is completed, the source displays "END", and the target automatically operates in the User mode. The target can then be operated by the same program as the source.
- (7) The other target can be continuously cloned. When the [] key on the source is pressed while the source displays "END", the source displays "CLONE MODE". Carry out the operation in step (4) to (6).

Note:

- Cannot be cloned if the password (overwrite password) is programmed to the target.
- "Model name" must be same to clone the transceiver.

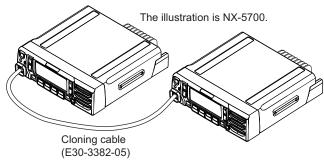


Fig.2

2.2.8 Front Panel Programming Mode

If the Front Panel Programming Mode is used, the frequency or other data of the conventional channel is rewritable only by the transceiver.

Moreover, the conventional channel can be added.

■The following setup items can be changed or added by using the Front panel programming mode.

- RX/TX Frequency
- · Channel Type
- · Channel Spacing
- Decode QT/DQT/RAN/NAC, Encode QT/DQT/RAN/NAC
- · Talkgroup ID List No.
- · Transmit Power
- · Channel Name

■Key guide on the Clone/ Front Panel Programming Password input screen.

- Confirm ([] | key): The password confirmation
- Delete ([
] key): Delete the latest digit from the current password number (Press and hold to delete all password numbers)
- Select ([]] key): Determine the latest digit of the password number.

2.2.8.1 Enter to the Front panel programming mode.

Enter to the Menu Mode by pressing [Front Panel Mode] PF key or [Menu] key. When the Front Panel Mode is selected, it can enter to the Front panel programming mode.

If the Clone/Front panel programming Password is not set to the transceiver, "Panel Program" is displayed on the LCD.

If the Clone/Front panel programming Password is set to the transceiver, "Panel Program" is displayed on the LCD when you enter the correct password while "Input Password" is displayed.

2.2.8.2 Data Writing

Before moving to next Zone/Channel, "Keep This Change?" appears on the LCD, if you select "OK", the new data is written to memory. If you select "Cancel", the new data not be written; the new data will be erased.

The setup items for Front panel programming mode are as follows.

| | | T | |
|-----|-----------------------------|-------------------|--|
| No. | Setup item | Display | Remarks |
| 1 | RX Frequency | RX Frequency | Receive Frequency |
| 2 | TX Frequency | TX Frequency | Transmit Frequency |
| 3 | Channel Type | Channel Type | Analog/NXDN/P25 |
| 4 | Channel Spacing | Channel Space | Analog: 12.5kHz/20kHz/25kHz Note: 20kHz is applied for E type only. |
| | | | NXDN: 6.25kHz/12.5kHz |
| | | | P25: 12.5kHz |
| 5 | RX Signaling | RX QT/DQT | Receive QT/DQT |
| 6 | TX Signaling | TX QT/DQT | Transmit QT/DQT |
| 7 | RX RAN | RX RAN | None, 1~63 |
| 8 | TX RAN | TX RAN | None, 1~63 |
| 9 | RX NAC | RX NAC | 000~FFF (Hexadecimal) Note: "F7F" cannot set. |
| 10 | TX NAC | TX NAC | 000~FFF (Hexadecimal) Note: "F7E" and "F7F" cannot set. |
| 11 | Talkgroup ID List Number | Talkgroup | None, 1~1500 |
| 12 | Transmit Power | Transmit Power | Low/Medium/High |
| 13 | Channel Name | Channel Name | |

Key operation

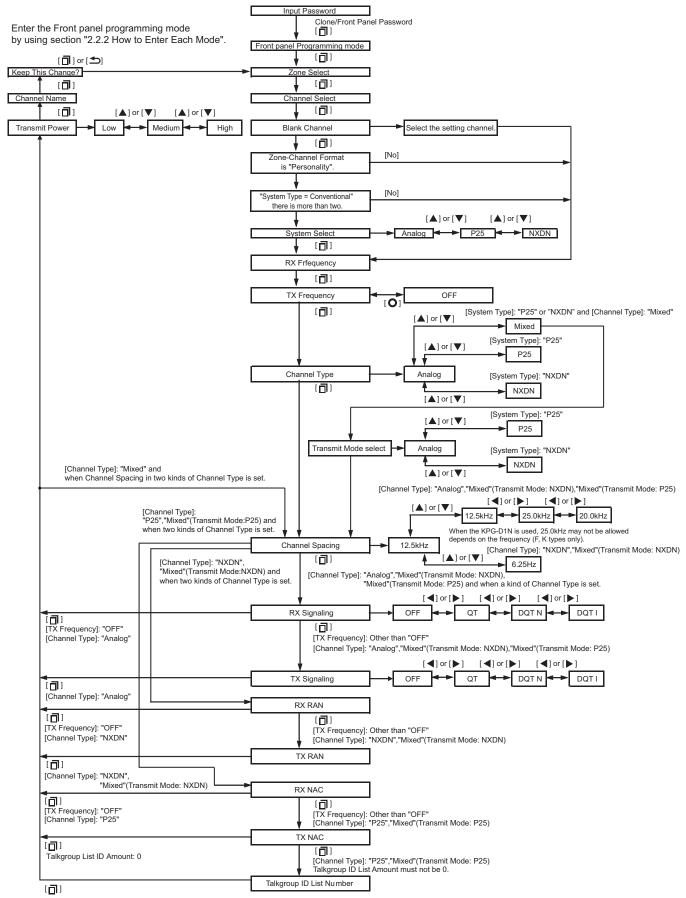
| Key\ltem | Zone Select | Channel Select | RX Frequency | TX Frequency | Channel Type | Channel Spacing | RX Signaling | TX Signaling |
|------------------------------|------------------------------|-----------------------------|--------------------------------|------------------------------|--------------------------------------|---------------------------------------|-------------------------------|-------------------------------|
| | Decision | Decision | Decision | Decision | Decision | Decision | Decision | Decision |
| () | Unused | Back to the previous item | Back to the pre- vious item | Back to the previous item | Back to the previous item | Back to the previous item | Back to the previous item | Back to the previous item |
| [O] | Unused | Unused | Unused | TX Frequency OFF | Unused | Unused | Unused | Unused |
| [♠] | Exit panel pro- gram mode | Exit panel program mode | Exit panel program mode | Exit panel pro- gram mode | Exit panel program mode | Exit panel program mode | Exit panel pro- gram mode | Exit panel program mode |
| [•] | Zone change | Channel change | Frequency up | Frequency up | Channel type change | Channel Spacing Change | Signaling number change | Signaling number change |
| [•] | Zone change | Channel change | Frequency down | Frequency down | Channel type change | Channel Spacing Change | Signaling number change | Signaling number change |
| [•] | Unused | Unused | Frequency step change | Frequency step change | Unused | Unused | Signaling type change | Signaling type change |
| [4] | Unused | Unused | Frequency step change | Frequency step change | Unused | Unused | Signaling type change | Signaling type change |
| MIC Key- pad [0] ~ [9] | Zone number select | Channel number select | Go to the direct | enter mode | Channel number select (1 or 2) | Channel spacing select (1 or 2) | Go to the direc | t enter mode |
| MIC Key- pad [*] | Decision | Decision | Decision | Decision | Decision | Decision | Decision | Decision |
| MIC Key- pad [#] | Unused | Back to the previous item | Back to the pre- vious item | Back to the previous item | Back to the previous item | Back to the previous item | Back to the previous item | Back to the previous item |

| Key\ltem | RX RAN | TX RAN | RX NAC | TX NAC | TG ID List No. | Transmit Power | Channel Name |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|--|
| [6] | Decision | Decision | Decision | Decision | Decision | Decision | Decision |
| (_ | Back to the pre- vious item | Back to the pre- vious item/De- lete |
| [O] | Unused | Unused | Unused | Unused | Unused | Unused | Character/Digit switching |
| [^] | Exit panel program mode | Exit panel program mode | Exit panel pro- gram mode | Exit panel program mode | Exit panel program mode | Exit panel pro- gram mode | Exit panel program mode |
| [▲] | RX RAN up | TX RAN up | RX NAC up | TX NAC up | TG List number up | Transmit power change | Go to the direct enter mode |
| [▼] | RX RAN down | TX RAN down | RX NAC down | TX NAC down | TG List number down | Transmit power change | |
| [•] | RX RAN ON/ OFF | RX RAN ON/ OFF | Unused | Unused | Unused | Unused | |
| [•] | RX RAN ON/ OFF | RX RAN ON/ OFF | Unused | Unused | Unused | Unused | |
| MIC Key- pad [0] ~ [9] | Go to the direct of | enter mode | | | Talkgroup List number select | Transmit power select (1, 2 or 3) | |
| MIC Key- pad [*] | Decision | Decision | Decision | Decision | Decision | Decision | Decision/ Char- acter/ Digit switching |
| MIC Key- pad [#] | Back to the previous item | Back to the previous item |

· Direct enter mode

| Key\Item | RX Frequency | TX Frequency | RX Signaling | TX Signaling | RX RAN | TX RAN | RX NAC | TX NAC | Channel Name |
|------------------------------|------------------------------------|--|-----------------|-----------------|-----------|-----------|-----------|-----------|--|
| | Decision | | | | | | | | Character/Channel name decision |
| (_ | Delete | | | | | | | | |
| [O] | Unused | | | | | | | | |
| [<u></u> | Exit panel pro | gram mode | | | | | | | |
| [*] | Unused | | | | | | | | $ \begin{array}{l} \hbox{Character selection (upper case character} \to \hbox{lower-case character} \to \hbox{digit} \\ \to \hbox{upper case character)} \end{array} $ |
| [*] | | Character selection (upper case character → lower-case character → digit → upper case character) | | | | | | | |
| [•] | | | | | | | | | Move a cursor to the right |
| [4] | | | | | | | | | Move a cursor to the left |
| MIC Key- pad [0] ~ [9] | Add a digit to the current number | | | | | | | | |
| MIC Key- pad [*] | Decision Input character switching | | | | | | | | |
| MIC Key- pad [#] | Delete/Back t | o the previous | item | | | | | | Delete |

· Front panel programming mode flow chart



Note: Zone-Channel Format allows you to whether to configure for each zone the channels in the same system, or channels in different system. P25 can be configured for System Select or Channel Type if one or more P25 conventional system is preconfigured by the FPU.

2.2.9 Transceiver Information Mode

Use this function to confirm the transceiver firmware version, SCM Firmware version and SCM Hardware version.

- (1) Enter the Transceiver Information mode by using section "2.2.2 How to Enter Each Mode".
- (2) The transceiver firmware version appears on the LCD.
- (3) Use the $[\blacktriangle]$ and $[\blacktriangledown]$ keys to select the confirmation items.



 $[\blacktriangle]/[\blacktriangledown]$

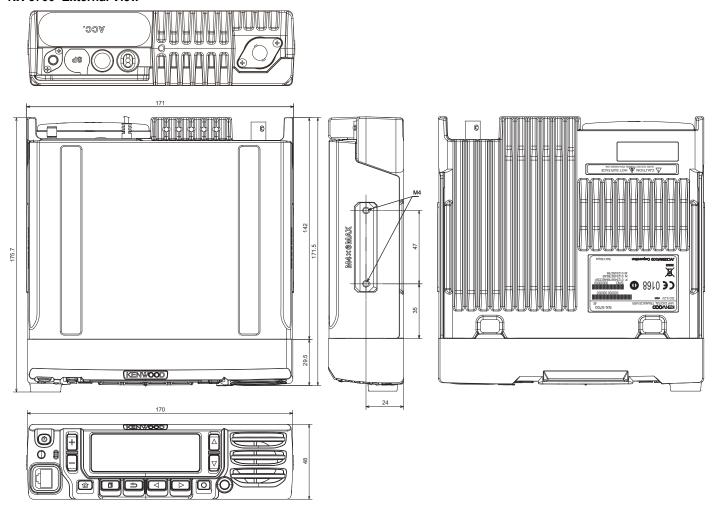
(4) To exit the transceiver information mode, turn the transceiver power OFF.

Note:

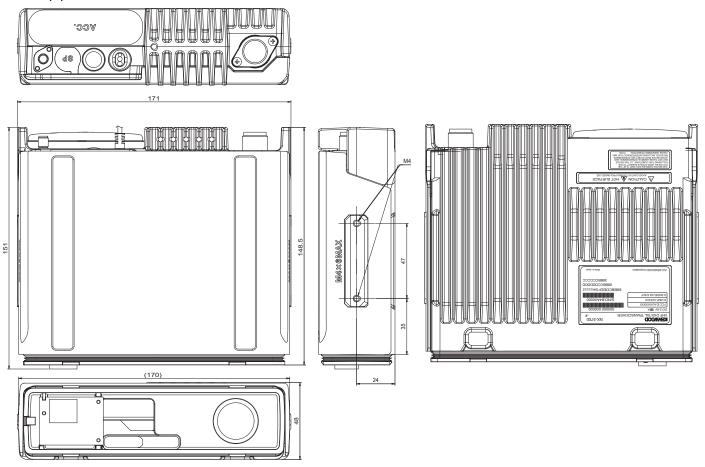
When the SCM board is not equipped to the transceiver, SCM Firmware Version and SCM Hardware Version are displayed as "-.-.-.".

2.3 INSTALLATION

NX-5700 External View



NX-5700(B) External View



ATTENTION:

When installing the option, please take measures to prevent static electricity.

2.3.1 Ignition Sense Cable (KCT-46: Option)

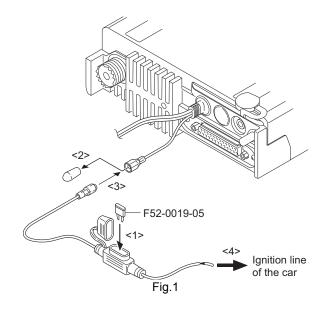
The KCT-46 is an optional cable for enabling the ignition function. The ignition function lets you turn the power to the transceiver on and off with the car ignition key.

2.3.1.1 Connecting the KCT-46 cable to the transceiver

- (1) Open the KCT-46 fuse holder and insert a mini blade fuse (3A). <1>
- (2) While holding a clear protective cover, remove the black cap at the end of the yellow cable (ignition sense cable) of the transceiver. <2>
- (3) Connect the plug of the KCT-46 to the yellow cable terminal of the transceiver. <3>
- (4) Connect the other end of the KCT-46 to the ignition line of the car. <4>

Note:

You must setup using the KPG-D1/D1N.

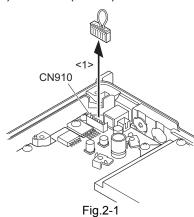


2.3.2 Horn Alert/P.A. Relay Unit (KAP-2: Option)

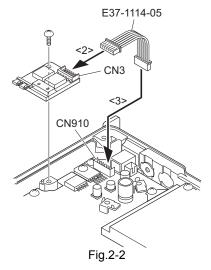
The Horn alert (max. 2A drive), Public address and External speaker function are enabled by installing the KAP-2 in the transceiver.

2.3.2.1 Installing the KAP-2 unit in the transceiver (The kit A is not used in the KAP-2 accessories)

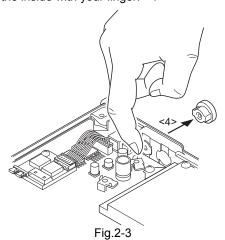
- Remove the cabinet, top packing and shielding plate of the transceiver
- (2) Set the KAP-2 relay unit jumper pins according to the purpose of use.
- (3) Remove the 6-pin jumper connector inserted in the TXRX unit (A/2) connector (CN910). <1>



(4) Insert one side of the lead wire with connector (E37-1114-05) into the relay unit connector (CN3) <2> and the other side into the TX-RX unit (A/2) connector (CN910) <3>



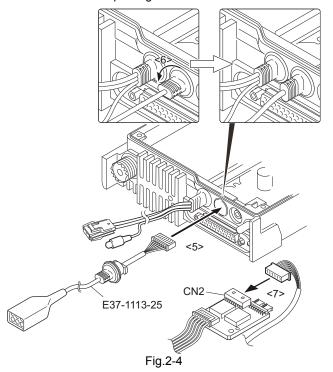
- (5) Place the relay unit at the position shown in Figure 2-2 and secure it to the chassis with a screw.
- (6) Remove the cap on the rear of the chassis by pushing it from the inside with your finger. <4>



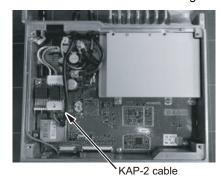
- (7) Pass the 6-pin connector of the cable (E37-1113-25) through the chassis hole <5> and insert the bush into the shassis hole.
- (8) Rotate the bush of the cable 90 degrees counterclockwise as viewed from the rear of the chassis. <6>
- (9) Insert the 6-pin connector of the cable into the connector (CN2) of the KAP-2 relay unit. <7>

Note:

You must setup using the KPG-D1/D1N.



(10) Form the KAP-2 cable as shown in the figure.



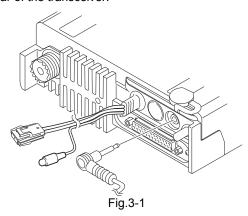
2.3.3 External Speaker (Option)

2.3.3.1 KES-3

The KES-3 is an external speaker for the 3.5-mm-diameter speaker jack.

■Connection Procedure

Connect the KES-3 to the 3.5-mm-diameter speaker jack on the rear of the transceiver.



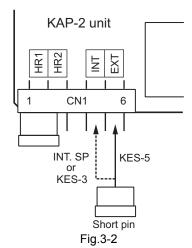
2.3.3.2 KES-5

External speaker KES-5 can be installed for KAP-2. If KES-5 is installed, it can be set by changing the CN1 short pin from pins 4 and 5 to pins 5 and 6 on the KAP-2.

| KAP-2 CN1 Connect | Set Up |
|-------------------|------------------|
| 4-5 | INT. SP or KES-3 |
| 5-6 | KES-5 |

When you use the KES-5, plug the short pin to pins 5 and 6 on the KAP-2.

When you use the INT. SP or KES-3, plug the short pin to pins 4 and 5 on the KAP-2.



■Connection Procedure

Insert the crimp terminal into the Square plug supplied with the KAP-2.

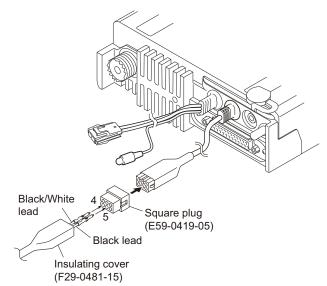


Fig.3-3

■KAP-2 Cable (E37-1113-25) 6-pin Connector



| =0, с р сельселе. | | | |
|-------------------|--------|------|--|
| Pin No. | Color | Name | |
| 1 | Red | HR2 | |
| 2 | Blue | GND | |
| 3 | Yellow | OSP | |
| 4 | Green | ESP | |
| 5 | Brown | GND | |
| 6 | Black | HR1 | |

2.3.4 SECURE CRYPTOGRAPHIC MODULE (KWD-AE30/KWD-AE31:Option)

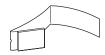
2.3.4.1 SUPPLIED ACCESSORIES



Connecting cable (X42-3330-XX)



Cushion A * (G13-2179-XX)



Cushion B (G13-2178-XX)



Cushion C (G1D-0006-XX)



Cushion D * (G1D-0055-XX)



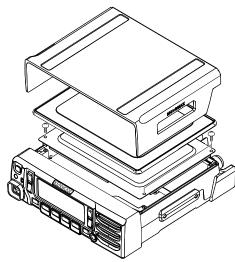
Spacer * (F3K-0004-XX)

Note:

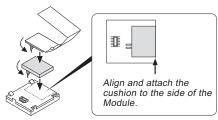
Supplied accessories with * mark are not used for the NX-5700.

2.3.4.2 INSTALLING THE MODULE IN THE TRANSCEIVER

(1) Remove the cabinet, top packing and shielding plate of the transceiver.



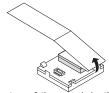
(2) Attach the cushion B and C to the module backside.



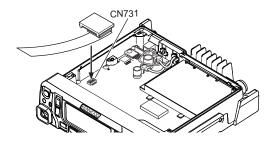
Note:

Refer to the figure for how to attach cushion B. If the release paper is reversed, it cannot be pulled out.

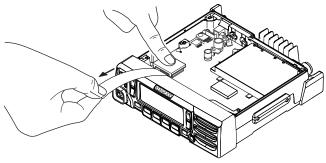
(3) Fold the release paper as indicated in the figure.



(4) Insert the connector of the module the connector (CN731) of the TX/RX PCB into.



(5) Pull and remove the release paper while pressing down on the module with your finger to hold it in place, to attach the module to the TX/RX PCB.



Note:

- When it is necessary to remove the module, do so by peeling the module off using your finger, while pulling it vertically. Do not use a screwdriver or other similar implement to remove the module; you may inadvertently damage the TX/RX PCB and the module.
- Cushion B cannot be reused. Attach a new cushion B when you remove the cushion from the module.
- (6) Reinstall the cabinet, top packing and shielding plate of the transceiver.

Note:

- When the KWD-AE30/ KWD-AE31 is installed, select the "Secure Cryptographic Module" checkbox in the Product Information of the Programming software [FPU (Field Programming Unit)], and then set each parameter.
- If the KWD-AE30/ KWD-AE31 connector is not properly installed, the TX/RX indicator will blink red or "No SCM" will appear on the display when the transceiver power is turned on.
- If the Encryption Key data is not written at the Keyloader, or the Encryption Key data is zeroized, "Key Fail" will appear on the display.
- If the KWD-AE30/ KWD-AE31 is installed in other transceivers, the Encryption Key data will be forced to zeroize.

2.3.5 Changing D-SUB 25-pin connector (4 pin, 5 pin) configuration

2.3.5.1 Change configuration of D-SUB 25-pin connector from AUXIO9 to CTS

■4 pin

The output (4 pin) of D-SUB 25-pin connector is configured at the AUXIO9 as the default value.

Remove the R950 chip jumpers and solder the chip jumpers to \$R952.

| Ref. No. | | | Function |
|----------|--------|---------|---------------|
| R950 | \$R952 | Default | AUXIO9 |
| \$R950 | R952 | - | CTS (RS-232C) |

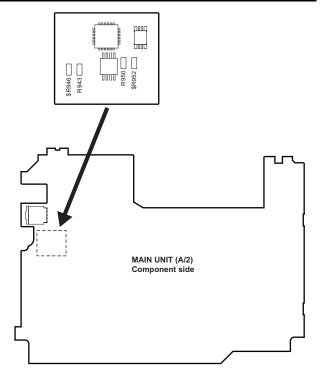
2.3.5.2 Change configuration of D-SUB 25-pin connector from DI to RTS

■5 pin

The input (5 pin) of D-SUB 25-pin connector is configured at the DI as the default value.

Remove the R943 chip jumpers and solder the chip jumpers to \$R946.

| Ref. No. | | | Function |
|----------|--------|---------|---------------|
| R943 | \$R946 | Default | DI |
| \$R943 | R946 | - | RTS (RS-232C) |



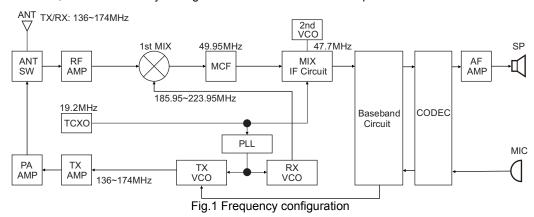
2.4 CIRCUIT DESCRIPTION

2.4.1 Overview

The NX-5700 is a VHF Analog FM & Digital Mobile transceiver designed to operate in the frequency range of 136 to 174MHz. The unit consists of a receiver, a transmitter, a phase-locked loop (PLL) frequency synthesizer, a digital control unit, and a power supply circuit.

2.4.2 Frequency Configuration

The receiver is a double-conversion super-heterodyne using first intermediate frequency (IF) of 49.95MHz and second IF of 2.25MHz. Incoming signals from the antenna are mixed with the local signal from the VCO/PLL circuit to produce the first IF of 49.95MHz. This is then mixed with the 47.7MHz second local oscillator output to produce the 2.25MHz second IF. The transmit signal frequency is generated by the TX VCO, and modulated by the signal from the DSP. It is then amplified and fed to the antenna.



2.4.3 Receiver System

2.4.3.1 RF circuit

The receive signal from antenna switch (D310, D311, D312, D313, D314 and D315) is amplified by a RF amplifier (Q502) and passes through the band-pass filter (L517, L516, L514, L511, L509 and L508) to remove unwanted signals. The signal is then fed to the 1st mixer (IC500).

2.4.3.2 IF circuit

The first IF signal is passed through a four-pole monolithic crystal filter (XF600) to reject adjacent channel signal. The filtered first IF signal is amplified by the first IF amplifier (Q604 and Q603) and then applied to the IF system IC (IC600). The IF system IC provides a second mixer, second PLL, AGC and A/D converter.

The second mixer mixes the first IF signal with the 47.7MHz of second local oscillator output and produces the second IF signal of 2.25MHz.

The second IF signal is then be fed into an A/D converter, generates the I and Q data. This data is in the form of SSI (Serial Synchronous Interface), and sent to the DSP (IC706).

2.4.3.3 Audio amplifier circuit

Audio processing (high-pass filter, low-pass filter, de-emphasized and so on) at Analog FM mode and decoding at Digital mode are processed by DSP. SSI signal from DSP is converted to audio signal at IC902. The signal goes to internal speaker and connector for external speaker (J900) through the amplifier (IC903), electronic volume control (IC719) and audio amplifier (IC911).

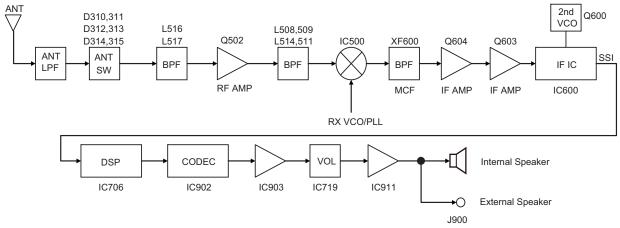


Fig.2 RF and IF circuit

2.4.4 Transmitter System

2.4.4.1 Audio Band Circuit

The signal from microphone is amplified and converted to digital signal by IC902. IC902 includes AGC function. Digital signal is transferred to IC706 thru SSI.

2.4.4.2 Base Band Circuit

The audio signal transferred from IC902 is processed at IC706. Voice signals of 300Hz or lower and frequencies of 3kHz or higher are cut off and an audio range 300Hz to 3kHz is extracted. The audio signal is then pre-emphasized in FM mode and synthesized with the signals, such as QT and DQT, as required, and is transferred to PLL Frequency Synthesizer block. The DTMF and MSK base band signals are also generated by IC706.

In Digital mode, the audio signal is converted to the 4-Level FSK base band signal and is transferred to PLL Frequency Synthesizer block.

The output level according to the transmit carrier is fine-adjusted according to each modulation method.

2.4.4.3 Drive and Final amplifier

The signal from the TX VCO is amplified by pre-drive amplifier (IC300). The output of the pre-drive amplifier is amplified by the drive amplifier (Q300) and RF Power module (IC302) to 50W (K) or 25W (E) (5W when the power is low).

IC300 is MMIC.Q300 is MOS FET. The output of the final amplifier is then passed through the coupler, antenna switch (D310, D311, D312, D313, D314 and D315), harmonic filter (LPF) and applied to the antenna terminal.

2.4.4.4 APC circuit

The Automatic transmission power control (APC) circuit controls the transmitter output in adjusted value by monitoring it with a coupler. RF detection and comparison functions are included in the power-control IC (IC304).

The power control IC output is given as a drive source of the RF power module's gate (IC302), and completes APC feedback loop. When an normal antenna load is connected, reflected Forward RF Power is detected by the coupler and direct in power-control IC

(IC304). Forward RF Power is converted into DC voltage in IC304 and is compared with the APC1. The output voltage goes through DC amp (IC301 2/2) to Drive amp (Q300) and RF Power module (IC302).

The voltage controls the gate bias1 voltage of Q300 and IC302, and keeps transmission output stable. SPC controls the gate bias2 voltage of IC302 too.

TXPWR_H/L switches the attenuation (D306) to change the loop gain of APC in the case of the especial low transmit power for base system of E type.

FLT RSW switches the response of APC in case of base system applied to optimized for it.

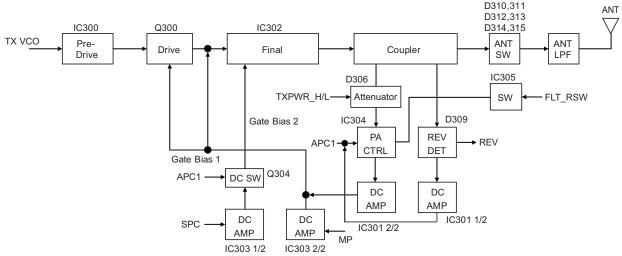


Fig.3 Drive and Final amplifier and APC circuit

2.4.5 PLL Frequency Synthesizer

2.4.5.1 TCXO (X700)

TCXO (X700) generates a reference frequency of 19.2MHz for the PLL frequency synthesizer. This reference signal is buffered by Q700 and IC703. And it is distributed to PLL (IC100), IF IC (IC600), and IC706.

The frequency adjustment is achieved by adjusting a D/A converter (IC715) output in the voltage of the control terminal of TCXO.

2.4.5.2 VCO

There are TX VCO and RX VCO.

The TX VCO (Q107) generates the carrier for the transmitter. The VCO oscillation frequency range is 136 to 174MHz. The transmit frequency range is 136 to 174MHz.

The RX VCO (Q105) generates the 1st local signal for the receiver.

The VCO oscillation frequency range is 185.95 to 223.95MHz. The 1st local signal frequency range is 185.95 to 223.95MHz.

The VCO oscillation frequency is determined by voltage control terminals "CV" and "ASSIST".

The voltage control terminal "CV" is controlled by PLL IC (IC100). The voltage control terminal "ASSIST" is controlled by the control voltage from D/A converter (IC715).

For the modulation input terminal, "VCO_MOD" of TX VCO, the output frequency changes according to the applied voltage. This is used to modulate the VCO output.

2.4.5.3 PLL IC

PLL IC (IC100) compare the difference in phases of the VCO oscillation signal and the TCXO reference frequency. And it returns the difference voltage to the VCO CV terminal and realizes the "Phase Locked Loop".

This allows the VCO oscillation frequency to accurately match (lock) the desired frequency.

When the frequency is controlled by the PLL, the frequency convergence time increases as the frequency difference increases when the set frequency is changed. To supplement this, the MPU is used before control by the PLL IC to bring the VCO oscillation frequency close to the desired frequency. As a result, the VCO CV voltage does not change and is always stable at approx. 2.5V.

The desired frequency is set for the PLL IC by the MPU (IC706) through the 3-line "SDO1", "P_SCK1", "/PCS_RF" serial bus for PLL. MPU monitors through the "PLD", whether the PLL IC is locked or not. If the VCO does not lock to desired frequency (unlock), the "PLD" logic is low.

2.4.6 Control Circuit

The control circuit consists of MPU/DSP (IC706) and its peripheral circuits. IC706 mainly performs the following;

- (1) Switching between transmission and reception by PTT signal input.
- (2) Reading system, zone, frequency, and program data from the memory circuit.
- (3) Sending frequency program data to the PLL.
- (4) Controlling the audio mute circuit by decode data input.

2.4.6.1 MPU

The MPU/DSP (IC706) is 32bit RISC processor and fixed floating-Point VLIW DSP Fixed/Floating-Point VLIW DSP, equipped with peripheral function.

This MPU operates at 288MHz (MAX) clock and 3.3V/1.8V/1.2V DC. Controls the flash memory, Mobile DDR, the receive circuit, the transmitter circuit, the control circuit, and the display circuit and transfers data to or from an external device.

2.4.6.2 Memory Circuit

Memory circuit consists of the MPU and the Mobile DDR (IC702), the flash memory (IC701). The flash memory has capacity of 512Mbit that contains the transceiver control program for the MPU and stores the data.

It also stores the data for transceiver channels and operating parameter that are written by the FPU. This program can be easily written from external devices. The Mobile DDR has capacity of 512Mbit. The MPU copies the program to the Mobile DDR from Flash memory. And MPU is used as a work area Mobile DDR.

■Flash memory

Note:

The flash memory stores the data that is written by the FPU (KPG-D1/D1N), tuning data (Deviation, Squelch, etc.), and firmware program (User mode, Test mode, Tuning mode, etc.). This data must be rewritten when replacing the flash memory.

■Mobile DDR (static memory)

Note:

Mobile DDR is used as a work area of the MPU.

2.4.6.3 LCD

LCD interface connector (CN4) of the display unit.

The LCD is controlled using parallel interface from MPU (IC706) through the interface connectors (CN749 of the main unit and CN6 of display unit) and flexible cable.

2.4.6.4 Key Detection Circuit

Keys are detected using I/O Expander IC (IC10) of the display unit. If pressed key is detected by IC10, it is informed to MPU (IC706) of the main unit through serial line.

2.4.6.5 DSP

The DSP circuit consists of a MPU/DSP (IC706) and processes the baseband signal. The DSP operates at 288MHz (MAX) clock, the I/O section operates at 3.3V/1.8V and the core section operates at 1.2V.

The DSP carries out the following processes:

- · 4Level FSK processing
- · Analog FM pre-emphasis/de-emphasis
- · Vocoder processing between audio codec and modulation/demodulation
- · CAI processing, such as error correction encoding
- QT/DQT encoding/decoding
- · DTMF encoding/decoding
- · MSK encoding/decoding
- · 2-tone encoding/decoding
- · Compressor/expander processing
- · Voice scrambler processing
- · Transmit/receive audio filtering processing
- · Microphone amplifier AGC processing
- · Audio mute processing
- · Modulation level processing
- · Active Noise Reduction
- · Voice recording/playback processing
- · Voice announce processing

2.4.7 Power Supply Circuit

+B voltage is connected to RF Power Module, 50BU regulator (Q8, Q9 and D11) through the fuse (F1), DC/DC converter IC (IC8) via fuse (F1), SB1 switch (Q5 and Q6) through the fuse (F2) and SB2 switch (Q10 and Q11) through the fuse (F3).

Q8, Q9 and D11 regulates +B voltage to 5V (50BU). Then IC1 regulates 50BU to 3.1V (31BU). Then IC3 regulates 31BU to 1.2V (12BU). 50BU, 31BU and 12BU operate whenever +B is supplied.

IC8 regulates +B voltage to 5.4V (54M). 54M is controlled by BAT_CNT signal from Power management IC (IC2). When Power switch is turned on, BAT_CNT signal is controlled by /PSW signal. 54M goes to DC/DC converter (A1, IC11), AVR ICs (IC5, IC4, IC12, IC14, IC7, IC10, IC6 and IC17).

A1 (12M) is enabled while the 54M is operating. 12M provides the power to the MPU/DSP (IC706) and turns on IC11 (18M). 18M provides the power to the MPU/DSP and Mobile DDR (IC702) and turns on IC5 (33M), IC14 (33OPT). 33M provides the power to the MPU/DSP, Flash memory (IC701) and many control circuits and turns on IC4 (33A), IC10 (50A). Then 33A turns on IC9 (18M 3).

The Power management IC (IC2) watches +B voltage. If +B voltage is higher than 6.2V, IC2 outputs high voltage to the /BINT terminal. If the /BINT is high, SB1 (Q5 and Q6) and SB2 (Q10 and Q11) are turned on by SBC_2 signal from MPU. In the same way, IC12 (33C) and IC6 (50C) are turned on by SBC_2. 50C is fed to IC13 (200C). IC13 (200C) is the DC/DC boost converter. The 200C circuit then outputs approximately +20VDC.

SB1 supplies Sub (Display) unit and D-sub 25 with +B voltage. SB2 supplies Audio power amplifier (IC911) and 9V AVR (IC15) with +B voltage. Then IC15 regulates +B to 9V (90C). Then IC16 regulates 90C to 5V (50CT). If the MPU controls TXC, ANT SW and ASSW signals to High, Q15, Q16 (90T), Q17, Q18 (90ANT) and Q14 are turned on and transmission circuits are enabled to transmit. If the MPU controls RXC signal to High, IC17 (50R) is turned on and reception circuits are enabled to receive.

When the Power management IC and MPU detect /PSW signal (Power switch), /IGN signal (Ignition sense) and /BINT signal, they set the SBC 2 signal to Low, and turn the transceiver power off.

When D1, Q4 detect over-voltage condition, they turn SB1 and SB2 off, and transfer that the MPU through IC2.

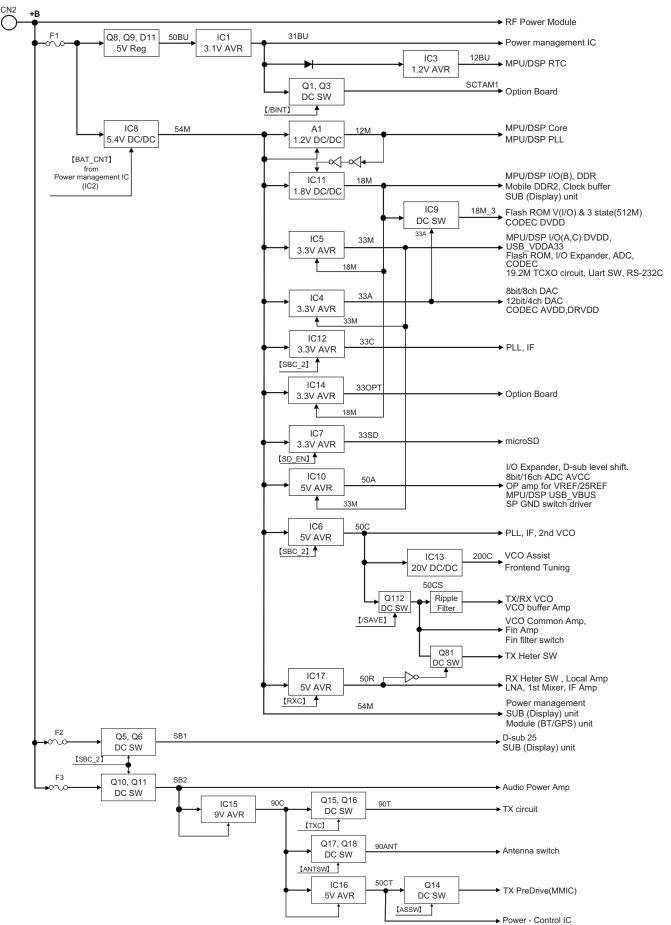


Fig.4 Power supply circuit

2.4.8 Signaling Circuit

2.4.8.1 Encode (QT/DQT/DTMF/2-tone/MSK)

Each signaling data signal of QT, DQT, DTMF, 2-tone and MSK is generated by IC706, superposed on a modulation signal and output to TX VCO and PLL IC.

2.4.8.2 Decode (QT/DQT/DTMF/2-tone/MSK)

The audio signal is removed from the FM detection signal sent to the IC706 and the resulting signal is decoded by IC706.

2.4.9 Bluetooth/GPS Circuit

The main component of the Bluetooth/GPS circuit is Bluetooth / GPS IC (IC5) on BT/GPS unit.

The clocks of Bluetooth/GPS IC require 19.2MHz for core and 32.768kHz slow clock (X1 and X2) for UART.

Bluetooth/GPS IC communicates to the OMAP processor (IC706) on the HCI UART. Interface of UART & Digital audio (PCM) between the OMAP processor (IC706) and the Bluetooth/GPS IC (IC5), have level conversion at the level shift IC (IC6 and IC7) on BT/GPS unit. The Bluetooth/GPS IC is powered by 1.8V and 3.3V which are supplied from 2 discrete external regulators (IC2 and IC3) on BT/GPS unit.

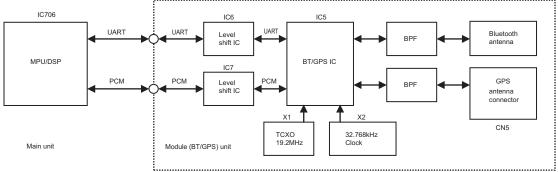


Fig.5 Bluetooth/GPS circuit

2.4.9.1 Bluetooth Circuit

The Bluetooth / GPS IC (IC5) support Bluetooth 3.0 up to HCI level.

TX/RX frequency is 2400-2483.5MHz (79ch Hopping, 2402-2480MHz, 1MHz step). Transmitting power is +2dBm at Bluetooth antenna input.

Using the printed antenna with Bluetooth, and connected to the Bluetooth / GPS IC (IC5) through the saw filter (L11).

Frequency configuration for Bluetooth is following:

There are two LO modes: 2X and Offset LO (OSLO). 2X where LO is 2*RF_FREQ (e.g. when transmitting at 2441MHz it is at 4882MHz). OSLO where LO is at (2/3)*RF_FREQ (e.g. when transmitting at 2441MHz it is at 1627.333MHz).

In RX the 2X is always used.

In GFSK TX if power is >10dBm then OSLO is used

In EDR2 TX if power is >-12dBm then OSLO is used

In EDR3 TX if power is >-12dBm then OSLO is used

Otherwise 2X is used for TX as well.

2.4.9.2 GPS Circuit

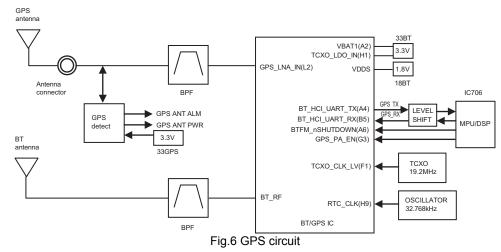
The GPS RF signal is received with the active antenna, and connected to the Bluetooth / GPS IC (IC5) through the terminal (CN5) and saw filter (L9).

The output is passed to pin L2 of the GPS IC. The input match for pin L2 comprises of C38, C36 and L7.

The control and data lines for the GPS IC are GPS PA EN, BTFM nSHUTDOWN, GPS TX and GPS RX.

GPS TX and GPS RX are shared with Bluetooth data line.

Frequency configuration for GPS is following: Lo is GPS: 1571.324MHz



2.5 COMPONENTS DESCRIPTION

2.5.1 Main unit (XC1-0381-80, XC1-0400-10)

| Ref.No | Part Name | Description |
|------------|-----------|---------------------------|
| IC1 | IC | Voltage regulator (31BU) |
| IC2 | IC | Power management |
| IC3 | IC | Voltage regulator (12BU) |
| IC4 | IC | Voltage regulator (33A) |
| IC5 | IC | Voltage regulator (33M) |
| IC6 | IC | Voltage regulator (50C) |
| IC7 | IC | Voltage regulator (33SD) |
| IC8 | IC | DC/DC Converter (54M) |
| IC9 | IC | Load SW (18M SW) |
| IC10 | IC | Voltage regulator (50A) |
| IC11 | IC | DC/DC Converter (18M) |
| IC12 | IC | Voltage regulator (33C) |
| IC13 | IC | DC/DC Converter (200C) |
| IC14 | IC | Voltage regulator (33OPT) |
| IC15 | IC | Voltage regulator (90C) |
| IC16 | IC | Voltage regulator (50CT) |
| IC17 | IC | Voltage regulator (50R) |
| IC18 | IC | Reset |
| IC100 | IC | PLL IC |
| IC101 | IC | Schmitt trigger |
| IC102 | IC | DC AMP (CV/Assist) |
| IC300 | IC | TX pre-drive AMP |
| IC301 | IC | APC |
| IC302 | IC | Power module |
| IC303 | IC | APC |
| IC304 | IC | TX power control |
| IC305 | IC | APC SW |
| IC500 | IC | RX 1st mixer |
| IC501 | IC | DC AMP (TV) |
| IC600 | IC | IF IC |
| IC701 | IC | Flash memory |
| IC702 | IC | Mobile DDR |
| IC703 | IC | Clock buffer |
| IC704, 705 | IC | Logic control |
| IC706 | IC | MPU/DSP |
| IC707, 708 | IC | Analog SW |
| IC709, 710 | IC | Logic control |
| IC711 | IC | I/O expander |
| IC712 | IC | A/D converter |
| IC714 | IC | Analog SW |
| IC715 | IC | D/A converter |
| IC719 | IC | D/A converter |
| IC720 | IC | Reset |
| IC900 | IC | Logic control |

| Ref.No | Part Name | Description |
|-----------|------------|----------------------------|
| IC901 | IC | DC AMP (25REF/VREF) |
| IC902 | IC | CODEC |
| IC903 | IC | AF AMP |
| IC904 | IC | Logic control |
| IC905 | IC | Buffer AMP (BER CK/BER DT) |
| IC906 | IC | Level shift |
| IC907 | IC | Analog SW |
| IC908 | IC | Schmitt trigger |
| IC909 | IC | RS-232C driver |
| IC910 | IC | I/O expander |
| IC911 | IC | Audio AMP |
| IC912 | IC | Logic control |
| Q1 | Transistor | DC SW (SCTAM1) |
| Q3 | FET | DC SW |
| Q4 | Transistor | DC SW |
| Q5 | FET | DC SW (SB1) |
| Q6, 7 | Transistor | DC SW |
| Q8, 9 | Transistor | Voltage regulator (50BU) |
| Q10 | FET | DC SW (SB2) |
| Q11 | Transistor | DC SW |
| Q12 | FET | DC SW |
| Q14 | FET | DC SW |
| Q15 | Transistor | DC SW |
| Q16 | FET | DC SW (90T) |
| Q17 | Transistor | DC SW |
| Q18 | FET | DC SW (90ANT) |
| Q81 | FET | T/R SW |
| Q100 | Transistor | DC SW (fin filter) |
| Q101 | FET | DC SW |
| Q102 | Transistor | DC SW (fin filter) |
| Q103 | FET | DC SW |
| Q104 | Transistor | Ripple filter |
| Q105 | FET | VCO oscillation |
| Q106 | Transistor | Fin AMP |
| Q107 | FET | VCO oscillation |
| Q108 | FET | DC SW |
| Q109 | FET | T/R SW (VCO) |
| Q110, 111 | Transistor | Buffer AMP |
| Q112 | FET | DC SW |
| Q300 | FET | TX drive AMP |
| Q301~303 | Transistor | DC SW |
| Q304, 305 | FET | DC SW |
| Q306 | Transistor | DC SW |
| Q500 | Transistor | RX local AMP |
| Q502 | Transistor | LNA |
| Q600 | FET | VCO oscillation |

| Ref.No | Part Name | Description |
|-----------|----------------------------|----------------------------|
| Q601 | Transistor | DC SW |
| Q602 | Transistor | Ripple filter |
| Q603 | Transistor | IF AMP |
| Q604 | FET | IF AMP |
| Q700 | Transistor | TCXO buffer |
| Q701 | FET | DC SW |
| Q703, 704 | FET | DC SW |
| Q705 | Transistor | DC SW |
| Q706 | Transistor | 50A SW |
| Q900, 901 | FET | Audio mute |
| Q902 | Transistor | DC SW |
| Q905, 906 | FET | Audio mute |
| Q907, 908 | FET | DC SW |
| D1 | Zener diode | Overvoltage protection |
| D2 | Diode | Reverse current prevention |
| D3 | Zener diode | Overvoltage protection |
| D4 | Diode | Reverse current prevention |
| D5 | Surge absorber | Surge protection |
| D6 | Diode | Backup battery charge |
| D7~10 | Diode | Reverse current prevention |
| D11 | Zener diode | Voltage regulator (50BU) |
| D12, 13 | Diode | Reverse current prevention |
| D14 | Diode | DC/DC converter (54M) |
| D15 | Diode | DC/DC converter (200C) |
| D16, 17 | Diode | Reverse current prevention |
| D100 | Zener diode | Overvoltage protection |
| D101, 102 | Diode | T/R SW (fin filter) |
| D103, 104 | Variable capacitance diode | VCO frequency control |
| D106~111 | Variable capacitance diode | VCO assist tune |
| D113 | Diode | Speed up |
| D114, 115 | Diode | T/R SW (fin filter) |
| D117 | Variable capacitance diode | TX modulation |
| D300 | Diode | T/R SW |
| D301 | Diode | Reverse current prevention |
| D302 | Zener diode | Overvoltage protection |
| D307 | Zener diode | Overvoltage protection |
| D309 | Diode | TX Reverse power detection |
| D310~315 | Diode | Antenna SW |
| D500 | Diode | T/R SW |
| D501~507 | Variable capacitance diode | RX band-pass filter tune |
| D508, 509 | Diode | Overvoltage protection |
| D510 | Variable capacitance diode | RX band-pass filter tune |

| Ref.No | Part Name | Description |
|-----------|----------------------------|----------------------------|
| D600, 601 | Variable capacitance diode | VCO frequency control |
| D602 | Diode array | Overvoltage protection |
| D700, 701 | Diode | Reverse current prevention |
| D702~706 | Varistor | Line protection |
| D708 | Zener diode | Overvoltage protection |
| D710, 711 | Diode | Reverse current prevention |
| D801 | Diode | Reverse current prevention |
| D900 | Diode array | External speaker detection |
| D903 | Zener diode | Overvoltage protection |
| D904 | Diode array | Line protection |
| D905 | Diode | Line protection |
| D906 | Zener diode | Overvoltage protection |
| D907 | Diode | Reverse current prevention |
| D908 | Diode array | Line protection |
| D909 | Diode array | External speaker detection |
| D910~915 | Diode array | Line protection |
| D916 | Diode | Reverse current prevention |
| D917 | Zener diode | Overvoltage protection |
| D918~920 | Diode array | Line protection |
| D921 | Diode | Reverse current prevention |
| D922 | Zener diode | Overvoltage protection |
| D923 | Diode array | Line protection |
| D924 | Diode | Reverse current prevention |

2.5.2 Module (BT/GPS) unit (XC2-0031-80, XC2-0040-10)

| Ref.No | Part Name | Description | |
|--------|-----------|---------------------------|--|
| IC1 | IC | Level converter | |
| IC2 | IC | Voltage regulator (18BT) | |
| IC3 | IC | Voltage regulator (33BT) | |
| IC4 | IC | Voltage regulator (33GPS) | |
| IC5 | IC | GPS/Bluetooth | |
| IC6, 7 | IC | Level converter | |
| Q1 | FET | DC SW | |

2.5.3 SUB (Display) unit (XC3-0020-20, XC3-0070-20) (Only NX-5700)

| Ref.No | Part Name | Description |
|--------|-----------|---------------------------|
| IC1 | IC | Voltage regulator (50M) |
| IC2 | IC | Voltage regulator (30LCD) |
| IC3 | IC | Logic control |
| IC4 | IC | Analog SW |
| IC6 | IC | Illuminance sensor |
| IC8 | IC | LED driver |
| IC9 | IC | Logic control |
| IC10 | IC | I/O expander |
| IC12 | IC | Logic control |

| Ref.No | Part Name | Description |
|---------|-------------|------------------------|
| Q2 | FET | DC SW |
| Q3, 4 | Transistor | DC SW |
| Q6 | Transistor | DC SW |
| D1, 2 | Zener diode | Overvoltage protection |
| D4~7 | LED | LED |
| D9~12 | LED | LED |
| D14~16 | LED | LED |
| D20 | Zener diode | Overvoltage protection |
| D21 | LED | LED |
| D22 | Diode | Overvoltage protection |
| D23, 24 | Zener diode | Overvoltage protection |
| D25 | Varistor | Surge protector |
| D26~32 | Zener diode | Overvoltage protection |

2.6 TERMINAL FUNCTION

2.6.1 Main unit (XC1-0381-80, XC1-0400-10) Pin No. Name I/O Functio

| Pin No. | Name | I/O | Function |
|---------|--------------|------|---|
| | CI | N4 (| Ignition) |
| 1 | IGN | I | Ignition sense input |
| 2 | GND | - | Ground |
| | CN731 | (fo | r production) |
| 1~20 | - | - | - |
| | CN735 (to Mo | dule | (BT/GPS) unit CN1) |
| 1 | GPS_PWR | I | Antenna power supply detection |
| 2 | GPS_ALM | I | Antenna open/short detection |
| 3 | GND | - | Ground |
| 4 | GND | - | Ground |
| 5 | GPS_ANT_SW | 0 | Enable signal for 33GPS |
| 6 | GPS_PA_EN | 0 | GPS receiver part switching signal output |
| 7 | BT_SHUTDOWN | 0 | Shutdown signal output |
| 8 | WCLK | 0 | Audio serial data bus word clock output |
| 9 | BCLK | 0 | Audio serial data bus bit clock output |
| 10 | BT_AUD_DI | I | Audio signal input |
| 11 | BT_AUD_DO | 0 | Audio signal output |
| 12 | RTS2 | 0 | Serial data output |
| 13 | CTS2 | ı | Serial data input |
| 14 | G_RXD2 | ı | Serial data input |
| 15 | G_TXD2 | 0 | Serial data output |
| 16 | BT_SW | 0 | Enable signal for 33BT and 18BT |
| 17 | GND | - | Ground |
| 18 | GND | - | Ground |
| 19 | 54M | 0 | 5.4V output |
| 20 | 54M | 0 | 5.4V output |

| Pin No. | Name | I/O | Function |
|---------|----------|-----|--|
| | | | (Display) unit CN6) |
| 1 | NC (IGN) | - | No connection (Ignition sense input) |
| 2 | NC | _ | No connection |
| 3 | GND | _ | Ground |
| 4 | 54M | 0 | 5.4V output |
| 5 | GND | - | Ground |
| 6 | GND | - | Ground |
| 7 | 18M | 0 | 1.8V output |
| 8 | D[15] | I/O | LCD driver data output |
| 9 | D[14] | I/O | LCD driver data output |
| 10 | D[13] | I/O | LCD driver data output |
| 11 | D[12] | I/O | LCD driver data output |
| 12 | D[11] | I/O | LCD driver data output |
| 13 | D[10] | I/O | LCD driver data output |
| 14 | D[9] | I/O | LCD driver data output |
| 15 | D[8] | I/O | LCD driver data output |
| 16 | D[7] | I/O | LCD driver data output |
| 17 | D[6] | I/O | LCD driver data output |
| 18 | D[5] | I/O | LCD driver data output |
| 19 | D[4] | I/O | LCD driver data output |
| 20 | D[3] | I/O | LCD driver data output |
| 21 | D[2] | I/O | LCD driver data output |
| 22 | D[1] | I/O | LCD driver data output |
| 23 | D[0] | I/O | LCD driver data output |
| 24 | /CS_LCD | 0 | LCD driver chip-serect signal |
| 25 | DC | 0 | LCD driver data/command switch signal |
| 26 | /WR_LCD | 0 | LCD driver WR signal |
| 27 | /RD_LCD | 0 | LCD driver RD signal |
| 28 | PRST | 0 | LCD driver reset signal |
| 29 | /KEYINT | ı | Key state change signal |
| 30 | I2CCK | 0 | I2C serial clock |
| 31 | I2CDT | 1/0 | I2C serial data |
| 32 | GND | ı | Ground |
| 33 | USB_D- | 1/0 | USB0 PHY data minus |
| 34 | USB_D+ | I/O | USB0 PHY data plus |
| 35 | GND | - | Ground |
| 36 | 33M | 0 | 3.3V output |
| 37 | DM/KVL | I/O | MIC data detection |
| 38 | GND | - | Ground |
| 39 | RXD | I | Serial data input |
| 40 | TXD | 0 | Serial data output |
| 41 | /PTT | I | PTT input |
| 42 | /PSW | I | Detection signal input of power switch |
| 43 | AFO+ | 0 | AF signal output plus |

| AFO- | Pin No. | Name | I/O | Function | | | | | |
|--|---------|-----------------------------------|------|---------------------------------------|--|--|--|--|--|
| 46 ME | 44 | AFO- | 0 | AF signal output minus | | | | | |
| 47 R_SET2 | 45 | MIC | | | | | | | |
| 48 | 46 | ME | - | MIC ground | | | | | |
| A | 47 | R_SET2 | ı | Radio setting signal 2 | | | | | |
| SO | 48 | R_SET1 | I | Radio setting signal 1 | | | | | |
| SPO | 49 | R_SET0 | I | Radio setting signal 0 | | | | | |
| SPO | 50 | GND | - | Ground | | | | | |
| 2 SPG | | CN900 (to SUB (Display) unit CN2) | | | | | | | |
| 3 GND | 1 | SPO | 0 | Speaker output | | | | | |
| CN906 (to Main unit B/2 CN907) CN906 (to Main unit B/2 CN907) NC | 2 | SPG | - | Speaker ground | | | | | |
| CN906 (to Main unit B/2 CN907) 1 | 3 | GND | - | Ground | | | | | |
| 1 NC - No connection 2~7 SB1 O Switched power supply 8 AFO O RX filtered AF signal output 9 DI I Data signal input 10 50C O 5V output 11 GND - Ground 12 DEO O RX detected signal output 13 MI2 I External MIC signal input 14 ME - MIC ground 15 GND - Ground 16 RXD0 I Serial data input 0 17 AUXO2 O AUX output 2 18 TXD0 O Serial data output 0 19 AUXIO3 I/O AUX input/output 9 21 AUXIO9 I/O AUX input/output 9 21 AUXIO5 I/O AUX input/output 8 23 AUXIO4 I/O AUX input/output 4 24 TXD2 O Serial data | 4 | SB1 | 0 | Switched power supply | | | | | |
| 2~7 SB1 O Switched power supply 8 AFO O RX filtered AF signal output 9 DI I Data signal input 10 50C O 5V output 11 GND - Ground 12 DEO O RX detected signal output 13 MI2 I External MIC signal input 14 ME - MIC ground 15 GND - Ground 16 RXDO I Serial data input 0 17 AUXO2 O AUX output 2 18 TXDO O Serial data output 0 19 AUXO1 O AUX output 1 20 AUXIO9 I/O AUX input/output 9 21 AUXIO5 I/O AUX input/output 5 22 AUXIO8 I/O AUX input/output 4 24 TXD2 O Serial data output 2 25 AUXIO3 I/O AUX input/output 3 26 RXD2 I Serial data input 2 27 AUXIO2 I/O AUX input/output 3 28 AUXIO1 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO1 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 6 | | CN906 (to | Maiı | n unit B/2 CN907) | | | | | |
| 8 AFO O RX filtered AF signal output 9 DI I Data signal input 10 50C O 5V output 11 GND - Ground 12 DEO O RX detected signal output 13 MI2 I External MIC signal input 14 ME - MIC ground 15 GND - Ground 16 RXD0 I Serial data input 0 17 AUXO2 O AUX output 2 18 TXD0 O Serial data output 0 19 AUXO1 O AUX output 1 20 AUXIO9 I/O AUX input/output 9 21 AUXIO5 I/O AUX input/output 5 22 AUXIO8 I/O AUX input/output 4 24 TXD2 O Serial data output 2 25 AUXIO3 I/O AUX input/output 3 26 RXD2 I Serial data input 2 27 AUXIO3 | | | | | | | | | |
| 9 DI | _ | | _ | | | | | | |
| 10 50C O 5V output 11 GND - Ground 12 DEO O RX detected signal output 13 MI2 I External MIC signal input 14 ME - MIC ground 15 GND - Ground 16 RXD0 I Serial data input 0 17 AUXO2 O AUX output 2 18 TXD0 O Serial data output 0 19 AUXO1 O AUX output 1 20 AUXIO9 I/O AUX input/output 9 21 AUXIO5 I/O AUX input/output 8 23 AUXIO4 I/O AUX input/output 4 24 TXD2 O Serial data output 2 25 AUXIO3 I/O AUX input/output 3 26 RXD2 I Serial data input 2 27 AUXIO2 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 7 | | | | | | | | | |
| 11 GND - Ground 12 DEO O RX detected signal output 13 MI2 I External MIC signal input 14 ME - MIC ground 15 GND - Ground 16 RXD0 I Serial data input 0 17 AUXO2 O AUX output 2 18 TXD0 O Serial data output 0 19 AUXO1 O AUX output 1 20 AUXIO9 I/O AUX input/output 9 21 AUXIO5 I/O AUX input/output 8 23 AUXIO4 I/O AUX input/output 4 24 TXD2 O Serial data output 2 25 AUXIO3 I/O AUX input/output 3 26 RXD2 I Serial data input 2 27 AUXIO2 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 2 28 AUXIO1 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 7 | _ | | - | <u> </u> | | | | | |
| 12 DEO O RX detected signal output 13 MI2 | | | 0 | | | | | | |
| 13 MI2 | | _ | | | | | | | |
| 14 ME - MIC ground 15 GND - Ground 16 RXD0 I Serial data input 0 17 AUXO2 O AUX output 2 18 TXD0 O Serial data output 0 19 AUXO1 O AUX output 1 20 AUXIO9 I/O AUX input/output 9 21 AUXIO5 I/O AUX input/output 5 22 AUXIO8 I/O AUX input/output 8 23 AUXIO8 I/O AUX input/output 4 24 TXD2 O Serial data output 2 25 AUXIO3 I/O AUX input/output 3 26 RXD2 I Serial data input 2 27 AUXIO2 I/O AUX input/output 2 28 AUXIO1 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO6 I/O AUX input/output 7< | | | | | | | | | |
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| 24 TXD2 O Serial data output 2 25 AUXIO3 I/O AUX input/output 3 26 RXD2 I Serial data input 2 27 AUXIO2 I/O AUX input/output 2 28 AUXIO1 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO6 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 1 4 AUXIO2 I/O AUX input/output 2 | | | | <u> </u> | | | | | |
| 25 AUXIO3 I/O AUX input/output 3 26 RXD2 I Serial data input 2 27 AUXIO2 I/O AUX input/output 2 28 AUXIO1 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO6 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 1 4 AUXIO2 I/O AUX input/output 2 | | | | <u> </u> | | | | | |
| 26 RXD2 I Serial data input 2 27 AUXIO2 I/O AUX input/output 2 28 AUXIO1 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO6 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 1 4 AUXIO2 I/O AUX input/output 2 | | | | · | | | | | |
| 27 AUXIO2 I/O AUX input/output 2 28 AUXIO1 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO6 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 1 4 AUXIO2 I/O AUX input/output 2 | | | | | | | | | |
| 28 AUXIO1 I/O AUX input/output 1 29 AUXIO7 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO6 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 1 4 AUXIO2 I/O AUX input/output 2 | | | | <u> </u> | | | | | |
| 29 AUXIO7 I/O AUX input/output 7 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO6 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 1 4 AUXIO2 I/O AUX input/output 2 | | | | | | | | | |
| 30 AUXIO6 I/O AUX input/output 6 CN907 (to Main unit A/2 CN906) 1 AUXIO6 I/O AUX input/output 6 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 1 4 AUXIO2 I/O AUX input/output 2 | | | | <u> </u> | | | | | |
| CN907 (to Main unit A/2 CN906) 1 AUXIO6 | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| 2 AUXIO7 I/O AUX input/output 7 3 AUXIO1 I/O AUX input/output 1 4 AUXIO2 I/O AUX input/output 2 | | CN907 (to | | | | | | | |
| 3 AUXIO1 I/O AUX input/output 1 4 AUXIO2 I/O AUX input/output 2 | 1 | AUXIO6 | I/O | AUX input/output 6 | | | | | |
| 4 AUXIO2 I/O AUX input/output 2 | 2 | AUXIO7 | I/O | AUX input/output 7 | | | | | |
| | 3 | AUXIO1 | I/O | AUX input/output 1 | | | | | |
| 5 RXD2 O Serial data output 2 | 4 | AUXIO2 | I/O | AUX input/output 2 | | | | | |
| | 5 | RXD2 | 0 | Serial data output 2 | | | | | |
| 6 AUXIO3 I/O AUX input/output 3 | 6 | AUXIO3 | I/O | AUX input/output 3 | | | | | |
| 7 TXD2 I Serial data input 2 | 7 | TXD2 | Ι | Serial data input 2 | | | | | |

| Pin No. | Name | I/O | Function | | | | |
|---------|---------|------|---|--|--|--|--|
| 8 | AUXIO4 | I/O | AUX input/output 4 | | | | |
| 9 | AUXIO8 | I/O | AUX input/output 8 | | | | |
| 10 | AUXIO5 | I/O | AUX input/output 5 | | | | |
| 11 | AUXIO9 | I/O | AUX input/output 9 | | | | |
| 12 | AUXO1 | I | AUX input 1 | | | | |
| 13 | TXD0 | ı | Serial data input 0 | | | | |
| 14 | AUXO2 | ı | AUX input 2 | | | | |
| 15 | RXD0 | 0 | Serial data output 0 | | | | |
| 16 | GND | - | Ground | | | | |
| 17 | ME | - | MIC ground | | | | |
| 18 | MI2 | 0 | External MIC signal output | | | | |
| 19 | DEO | ı | RX detected signal input | | | | |
| 20 | GND | - | Ground | | | | |
| 21 | 50C | ı | 5V input | | | | |
| 22 | DI | 0 | Data signal output | | | | |
| 23 | AFO | I | RX filtered AF signal input | | | | |
| 24~29 | SB1 | I | Switched power supply | | | | |
| 30 | NC | - | No connection | | | | |
| | | CI | N910 | | | | |
| 1 | SB2 | 0 | Switched power supply | | | | |
| 2 | SPI | 0 | Speaker output | | | | |
| 3 | SPO | ı | Speaker input | | | | |
| 4 | PA | 0 | Control signal of Pubilc address function | | | | |
| 5 | HOR | 0 | Control signal of Horn alert function | | | | |
| 6 | GND | - | Ground | | | | |
| | J7 | 00 (| microSD) | | | | |
| 1 | DAT2 | I/O | Data 2 | | | | |
| 2 | CD/DAT3 | I/O | Data 3 | | | | |
| 3 | CMD | I/O | Command input/output | | | | |
| 4 | VDD | 0 | 3.3V output | | | | |
| 5 | CLK | 0 | Clock output | | | | |
| 6 | VSS | _ | Ground | | | | |
| 7 | DAT0 | I/O | Data 0 | | | | |
| 8 | DAT1 | I/O | Data 1 | | | | |
| 9 | CD | I | Card detect switch | | | | |
| 10 | COMMON | - | Ground | | | | |
| 11 | GND1 | - | Ground | | | | |
| 12 | GND2 | - | Ground | | | | |
| | J901 (A | CC. | D-Sub 25-pin) | | | | |
| | | | | | | | |

| Pin No. | Name | I/O | Function |
|---------|--------|-----|----------------------------------|
| 1 | NC | - | Refer to "D-sub 25-pin connector |
| 2 | RXD1 | I | specification". |
| 3 | TXD1 | 0 | |
| 4 | AUXIO9 | I/O | |
| 5 | DI | I | |
| 6 | MI2 | I | |
| 7 | GND | - | |
| 8 | AUXIO8 | I/O | |
| 9 | TXD2 | 0 | |
| 10 | RXD2 | I | |
| 11 | GND | - | |
| 12 | AUXIO7 | I/O | Refer to "D-sub 25-pin connector |
| 13 | AUXIO6 | I/O | specification". |
| 14 | SB | - | |
| 15 | AUXO2 | 0 | |
| 16 | AUXO1 | 0 | |
| 17 | AFO | 0 | |
| 18 | GND | - | |
| 19 | DEO | 0 | |
| 20 | AUXIO5 | I/O | |
| 21 | AUXIO4 | I/O | |
| 22 | AUXIO3 | I/O | |
| 23 | AUXIO2 | I/O | |
| 24 | AUXIO1 | I/O | |
| 25 | ME | - | |

2.6.2 Module (BT/GPS) unit (XC2-0031-80, XC2-0040-10)

| Pin No. | Name | I/O | Function | | | | |
|---------|-----------------------------|-----|--|--|--|--|--|
| | CN1(to Main unit A/2 CN735) | | | | | | |
| 1 | 54M | I | 5.4V input | | | | |
| 2 | 54M | I | 5.4V input | | | | |
| 3 | GND | i | Ground | | | | |
| 4 | GND | i | Ground | | | | |
| 5 | BT_SW | I | Enable signal for 33BT and 18BT | | | | |
| 6 | G_TXD2 | I | Serial data intput | | | | |
| 7 | G_RXD2 | 0 | Serial data output | | | | |
| 8 | CTS2 | 0 | Serial data output | | | | |
| 9 | RTS2 | I | Serial data input | | | | |
| 10 | BT_AUD_DO | I | Audio signal input | | | | |
| 11 | BT_AUD_DI | 0 | Audio signal output | | | | |
| 12 | BCLK | I | Audio serial data bus bit clock input | | | | |
| 13 | WCLK | I | Audio serial data bus word clock input | | | | |
| 14 | BT_SHUTDOWN | I | Shutdown signal input | | | | |
| 15 | GPS_PA_EN | I | GPS receiver part switching signal input | | | | |

| Pin No. | Name | I/O | Function |
|---------|------------|-----|--------------------------------|
| 16 | GPS_ANT_SW | I | Enable signal for 33GPS |
| 17 | GND | - | Ground |
| 18 | GND | - | Ground |
| 19 | GPS_ALM | 0 | Antenna open/short detection |
| 20 | GPS_PWR | 0 | Antenna power supply detection |

2.6.3 Sub (Display) unit (XC3-0020-20, XC3-0070-20) (Only NX-5700)

| Pin No. | Name | I/O | Function | | |
|---------|-----------|------|---------------------------------------|--|--|
| | CN2 (to I | Main | unit A/2 CN900) | | |
| 1 | SP+ | ı | Speaker output | | |
| 2 | SPG | 1 | Speaker ground | | |
| 3 | GND | 1 | Ground | | |
| 4 | SB | - | Switched power supply | | |
| | | CN4 | 4 (LCD) | | |
| 1 | VSSA | ı | Ground | | |
| 2 | VSSA | - | Ground | | |
| 3 | VSSA | ı | Ground | | |
| 4 | VCC | 0 | 3V output | | |
| 5 | VCC | 0 | 3V output | | |
| 6 | VSSD | - | Ground | | |
| 7 | VSSD | - | Ground | | |
| 8 | VSSD | - | Ground | | |
| 9 | IOVCC | 0 | 1.8V output | | |
| 10 | IOVCC | 0 | 1.8V output | | |
| 11 | RDX | 0 | LCD driver RD signal | | |
| 12 | WRX | 0 | LCD driver WR signal | | |
| 13 | DCX | 0 | LCD driver data/command switch signal | | |
| 14 | CSX | 0 | LCD driver chip-serect signal | | |
| 15 | DB1 | I/O | LCD driver data output | | |
| 16 | DB2 | I/O | LCD driver data output | | |
| 17 | DB3 | I/O | LCD driver data output | | |
| 18 | DB4 | I/O | LCD driver data output | | |
| 19 | DB5 | I/O | LCD driver data output | | |
| 20 | DB6 | I/O | LCD driver data output | | |
| 21 | DB7 | I/O | LCD driver data output | | |
| 22 | DB8 | I/O | LCD driver data output | | |
| 23 | DB10 | I/O | LCD driver data output | | |
| 24 | DB11 | I/O | LCD driver data output | | |
| 25 | DB12 | I/O | LCD driver data output | | |
| 26 | DB13 | I/O | LCD driver data output | | |
| 27 | DB14 | I/O | LCD driver data output | | |
| 28 | DB15 | I/O | LCD driver data output | | |
| 29 | DB16 | I/O | LCD driver data output | | |
| 30 | DB17 | I/O | LCD driver data output | | |

| Pin No. | Name | I/O | Function |
|---------|-----------|----------|--|
| 31 | CABC | - | No connection |
| 32 | RESX | 0 | LCD driver reset signal |
| 33 | IM0 | 0 | Interface mode select |
| 34 | LEDA | 0 | 54M output (LED light anode) |
| 35 | LED1 | ı | LED light cathode 1 |
| 36 | LED1 | · | LED light cathode 2 |
| 37 | LED3 | <u>'</u> | LED light cathode 3 |
| 38 | LED4 | ' | No connection |
| 30 | LLD4 | - | TWO CONTIECTION |
| | CN5 (| Inte | rnal speaker) |
| 1 | SPG | - | Speaker ground |
| 2 | SP+ | 0 | Speaker output |
| | CN6 (to I | Main | unit A/2 CN749) |
| 1 | GND | - | Ground |
| 2 | R_SET0 | 0 | Radio setting signal 0 |
| 3 | R_SET1 | 0 | Radio setting signal 1 |
| 4 | R_SET2 | 0 | Radio setting signal 2 |
| 5 | ME | - | MIC ground |
| 6 | MIC | 0 | MIC signal output |
| 7 | AFO- | I | AF signal input minus |
| 8 | AFO+ | ı | AF signal input plus |
| 9 | /PSW | 0 | Detection signal input of power switch |
| 10 | /PTT | 0 | PTT output |
| 11 | TXD | I | Serial data input |
| 12 | RXD | 0 | Serial data output |
| 13 | GND | - | Ground |
| 14 | DM/KVL | I/O | MIC data detection |
| 15 | 33M | I | 3.3V input |
| 16 | GND | - | Ground |
| 17 | USB_D+ | I/O | USB0 PHY data plus |
| 18 | USB_D- | I/O | USB0 PHY data minus |
| 19 | GND | 1 | Ground |
| 20 | I2CDT | I/O | I2C serial data |
| 21 | I2CCK | Ι | I2C serial clock |
| 22 | /KEYINT | 0 | Key state change signal |
| 23 | PRST | I | LCD driver reset signal |
| 24 | /RD_LCD | I | LCD driver Read signal |
| 25 | /WR_LCD | I | LCD driver Write signal |
| 26 | DC | I | LCD driver data/command switch signal |
| 27 | /CS_LCD | I | LCD driver chip-serect signal |
| 28 | D[0] | I/O | LCD driver data input |
| 29 | D[1] | I/O | LCD driver data input |
| 30 | D[2] | I/O | LCD driver data input |
| 31 | D[3] | I/O | LCD driver data input |
| 32 | D[4] | I/O | LCD driver data input |

| Pin No. | Name | I/O | Function |
|---------|--------------|-------|--|
| 33 | D[5] | | LCD driver data input |
| 34 | D[6] | | LCD driver data input |
| 35 | D[7] | | LCD driver data input |
| 36 | D[8] | | LCD driver data input |
| 37 | D[9] | I/O | LCD driver data input |
| 38 | D[10] | I/O | LCD driver data input |
| 39 | D[11] | I/O | LCD driver data input |
| 40 | D[12] | I/O | LCD driver data input |
| 41 | D[13] | I/O | LCD driver data input |
| 42 | D[14] | I/O | LCD driver data input |
| 43 | D[15] | I/O | LCD driver data input |
| 44 | 18M | Ι | 1.8V input |
| 45 | GND | 1 | Ground |
| 46 | GND | - | Ground |
| 47 | 54M | ı | 5.4V input |
| 48 | GND | ı | Ground |
| 49 | NC | ı | No connection |
| 50 | NC (IGN) | - | No connection (Ignition sense input) |
| | , | J1 (N | /IIC jack) |
| 1 | BLC_4/D+2 | I/O | Back light control signal / USB PHY data plus |
| 2 | SB_2 | 0 | Switched power supply |
| 3 | GND | - | Ground |
| 4 | PTT/TXD_3 | I/O | PTT input / Serial data output |
| 5 | ME_3 | - | MIC ground |
| 6 | MIC_3 | I | MIC signal input |
| 7 | HOOK/RXD/D-2 | I/O | Hook detection / Serial data input / USB PHY data minus |
| 8 | DM/KVL_3 | I/O | MIC data detection |

2.6.4 D-Sub 25-pin connector specification

| Pin No. | Pin Name | I/O | Signal Type | Rating and Condition | | | | | |
|----------|---------------|-----|-------------|------------------------------------|------|------|------|-------|--|
| PIII NO. | Pin Name | 1/0 | Signal Type | Parameter | Min | Тур | Max | Unit | |
| 1 | NC | - | - | - | | | | | |
| 2 | RXD1 | I | Digital | Input Voltage Range | -30 | | 30 | V | |
| | | | | Threshold Low | 0.5 | 1.3 | | V | |
| | | | | Threshold High | | 1.6 | 2.45 | V | |
| | | | | Baud Rate | - | | 300k | bps | |
| | | | | CL | | 100 | | pF | |
| 3 | TXD1 | 0 | Digital | Voltage Swing (3kΩ Load) | ±5 | ±5.2 | | V | |
| | | | | Baud Rate | - | | 300k | bps | |
| | | | | CL | | 100 | | pF | |
| 4 | AUXIO9 | I/O | Digital | VIH | 4 | - | 5.2 | V | |
| | | | | VIL | -0.5 | - | 1 | V | |
| | | | | VOH (Io=-1.5mA) | 4 | - | 5.2 | V | |
| | | | | VOL (Io=1.5mA) | - | - | 1.1 | V | |
| | CTS (RS-232C) | I | Digital | Input Voltage Range | -30 | | 30 | V | |
| | | | | Threshold Low | 0.5 | 1.3 | | V | |
| | | | | Threshold High | | 1.75 | 2.6 | V | |
| 5 | DI | I | Analog | Input Voltage range | - | 0.5 | - | Vp-p | |
| | | | | (STD Deviation) | | | | | |
| | | | | Freq Response (STD Dev.) 20~9600Hz | -3 | | 3 | dB | |
| | RTS (RS-232C) | 0 | Digital | Voltage Swing (3kΩ Load) | ±5 | ±5.2 | | V | |
| 6 | MI2 | I | Analog | Audio Level (STD Deviation) | - | 5 | - | mVrms | |
| | | | | Allowable Freq | 300 | | 3000 | Hz | |
| | | | | Input Impedance | - | 600 | - | Ω | |
| 7 | GND | - | GND | | | | | | |
| 8 | AUXIO8 | I/O | Digital | VIH | 4 | - | 5.2 | V | |
| | | | | VIL | -0.5 | - | 1 | V | |
| | | | | VOH (Io=-1.5mA) | 4 | - | 5.2 | V | |
| | | | | VOL (Io=1.5mA) | - | - | 1.1 | V | |
| 9 | TXD2 | 0 | Digital | VOH (Io=-1.5mA) | 3.7 | - | 5.2 | V | |
| | | | | VOL (Io=1.5mA) | - | - | 1.1 | V | |
| | | | | CL | | 100 | | pF | |
| 10 | RXD2 | I | Digital | VIH | 2.8 | - | 5.2 | V | |
| | | | | VIL | - | - | 0.65 | V | |
| | | | | CL | | 100 | | pF | |
| 11 | GND | - | GND | | | | | | |
| 12 | AUXIO7 | I/O | Digital | VIH | 4 | - | 5.2 | V | |
| | | | | VIL | -0.5 | - | 1 | V | |
| | | | | VOH (Io=-1.5mA) | 3.7 | - | 5.2 | V | |
| | | | | VOL (Io=1.5mA) | - | - | 1.1 | V | |
| 13 | AUXIO6 | I/O | Digital | VIH | 4 | - | 5.2 | V | |
| | | | | VIL | -0.5 | - | 1 | V | |
| | | | | VOH (Io=-1.5mA) | 3.7 | - | 5.2 | V | |
| | | | | VOL (Io=1.5mA) | _ | - | 1.1 | V | |

| | 1 | 1 | | | Rating and C | Condition | | |
|---------|----------|-----|-------------|---|--------------|-------------|---------------|-------|
| Pin No. | Pin Name | I/O | Signal Type | Parameter | Min | Тур | Max | Unit |
| 14 | SB | - | Power | Voltage | This parame | ter depends | on Battery Vo | Itage |
| | | | | Supply Current | - | - | 2 | Α |
| 15 | AUXO2 | 0 | Digital | The type of this port is open of | collector. | | • | • |
| | | | | VOL | | | 0.4 | V |
| | | | | IOL | | | -500 | mA |
| 16 | AUXO1 | 0 | Digital | The type of this port is open of | collector. | | • | • |
| | | | | VOL | | | 0.4 | V |
| | | | | IOL | | | -500 | mA |
| 17 | AFO | 0 | Analog | Output Level | | 0.7 | | Vp-p |
| | | | | Coupling Capacitor | | 10 | | uF |
| | | | | allowable Load | 100 | - | - | kΩ |
| | | | | allowable freq | 300 | | 3000 | Hz |
| 18 | GND | - | GND | | | | | |
| 19 | DEO | 0 | Analog | Output Level | - | 0.28 | - | Vp-p |
| | | | | Coupling Capacitor | - | 10 | - | uF |
| | | | | allowable Load | 47 | - | - | kΩ |
| | | | | Frequ. Response (STD Dev) Wide 20~4800Hz | -6 | | 1 | dB |
| | | | | 4800~7200Hz | -24 | | 1 | dB |
| | | | | Narrow 20~4800Hz | -15 | | 1 | dB |
| 20 | AUXIO5 | I/O | Digital | VIH | 4 | - | 5.2 | V |
| | | | | VIL | -0.5 | - | 1 | V |
| | | | | VOH (Io=-1.5mA) | 4 | - | 5.2 | V |
| | | | | VOL (lo=1.5mA) | - | - | 1.1 | V |
| 21 | AUXIO4 | I/O | Digital | VIH | 4 | - | 5.2 | V |
| | | | | VIL | -0.5 | - | 1 | V |
| | | | | VOH (Io=-1.5mA) | 4 | - | 5.2 | V |
| | | | | VOL (lo=1.5mA) | - | - | 1.1 | V |
| 22 | AUXIO3 | I/O | Digital | VIH | 4 | - | 5.2 | V |
| | | | | VIL | -0.5 | - | 1 | V |
| | | | | VOH (Io=-1.5mA) | 4 | - | 5.2 | V |
| | | | | VOL (lo=1.5mA) | - | - | 1.1 | V |
| 23 | AUXIO2 | I/O | Digital | VIH | 4 | - | 5.2 | V |
| | | | | VIL | -0.5 | - | 1 | V |
| | | | | VOH (Io=-1.5mA) | 4 | - | 5.2 | V |
| | | | | VOL (Io=1.5mA) | - | - | 1.1 | V |
| 24 | AUXIO1 | I/O | Digital | VIH | 4 | - | 5.2 | V |
| | | | | VIL | -0.5 | - | 1 | V |
| | | | | VOH (Io=-1.5mA) | 4 | - | 5.2 | V |
| | | | | VOL (Io=1.5mA) | - | - | 1.1 | V |
| 25 | ME | - | Analog | This is GND port for Micropho | one. | 1 | 1 | 1 |

SECTION 3 DISASSEMBLY

3.1 Precautions for Disassembly

3.1.1 Main PCB (Main unit A/2) disassembly

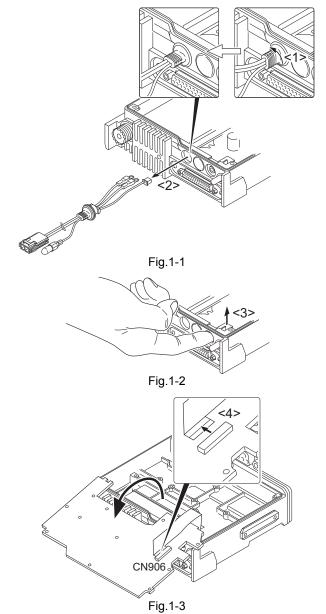
- (1) Remove all screws and antenna terminals on the Main PCB.
- (2) Rotate the bush of the power supply cable 90 degrees counterclockwise as viewed from the rear of the chassis <1> and remove the power supply cable from the chassis <2>.
- (3) When the speaker phone jack is pushed up, using your finger, from the rear of the chassis <3>, the Main PCB is removed from the chassis.

Note:

The Main PCB and D-sub PCB (Main unit B/2) are connected with a flat cable.

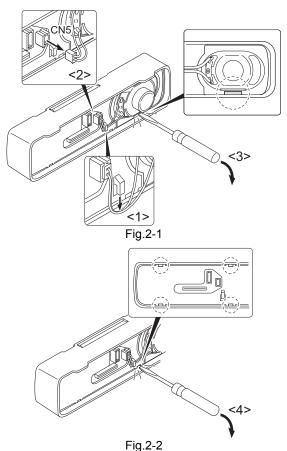
Remove them carefully.

- (4) Turn the Main PCB over and remove the flat cable from the connector (CN906). <4>
- (5) Remove the Main PCB from the chassis.



3.1.2 Removing the speaker hardware fixture (J2B-0023-00) and holder (J1K-0019-00)

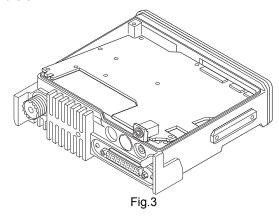
- (1) Remove the speaker lead from the holder hook. <1>
- (2) Remove the speaker connector from the display unit connector (CN5). <2>
- (3) When removing the speaker hardware fixture, insert a flathead screwdriver at the position shown in Figure 2-1 and tilt it in the direction shown by the arrow. <3>
- (4) To remove the holder, insert a flat-head screwdriver into tab of the holder and tilt it in the direction shown by the arrow. <4>



3.2 Precautions for Reassembly

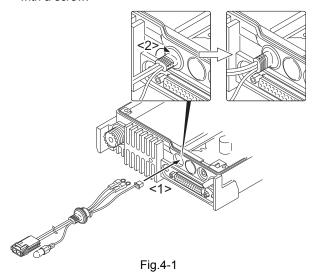
3.2.1 Main PCB (Main unit A/2) reassembly

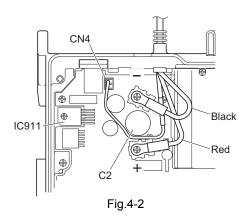
- (1) With the Main PCB turned over, insert the flat cable from the D-sub PCB (Main unit B/2) into the connector (CN906) on the Main PCB.
- (2) Place the Main PCB at its original position as shown in Figure 3.



3.2.2 Power supply cable installation procedure

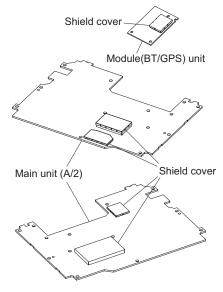
- (1) Pass the power supply cable through the chassis hole <1> as shown in Figure 4-1 and insert the bush into the chassis hole.
- (2) Rotate the bush of the power supply cable 90 degrees clockwise as viewed from the rear of the chassis. <2>
- (3) Align the ignition sense connector (yellow) of the power supply cable around the chemical capacitor (C401) and connect it to the Main unit (A/2) connector (CN4).
- (4) Align the + (positive) terminal of the power supply cable (red) as shown in Figure 4-2 and fix it to the terminal strip with a screw.
- (5) Align the (negative) terminal of the power supply cable (black) as shown in Figure 4-2 and fix it to the terminal strip with a screw.





3.2.3 Remove the top cover from the shield cover

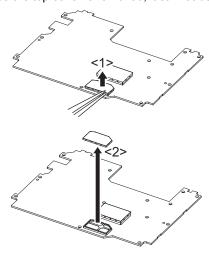
(1) There are five shield covers on the Main unit (A/2) and Module (BT/GPS) unit, the top covers can be removed.



- (2) Use tweezers to slightly lift the edge of the top cover. <1>
- (3) As you do step 2 above, vary the position you hold the top cover as you lift it, and remove the top cover <2>.

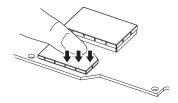
Note:

Once the top cover is removed, it cannot be used again.



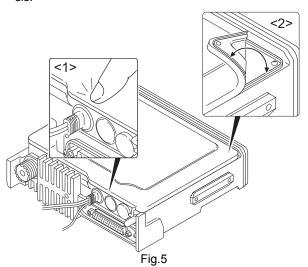
Note:

Push evenly on the top cover and be careful that you do not bend it as you install it on the shield cover.



3.2.4 Top packing installation procedure

- (1) Place the top packing over the shielding plate.
- (2) Fit the convex tab of the top packing into the hollow of the chassis. <1>.
- (3) Fit the chassis into the groove of the top packing. <2> Verify that the top packing is in close contact with the chassis.

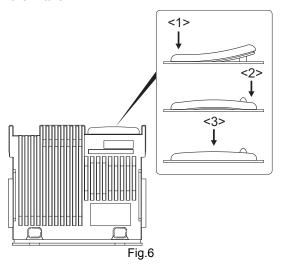


3.2.5 D-sub cap installation procedure

To improve water resistance, fit the D-sub cap into the D-sub terminal hardware fixture of the transceiver in the following order:

- (1) Fit the left side <1> of the D-sub cap into the hardware fixture.
- (2) Fit the right side <2> of the D-sub cap into the hardware fixture.
- (3) Fit the center <3> of the D-sub cap into the hardware fixture.

Verify that the D-sub cap is in close contact with the hardware fixture.



3.2.6 Installing the holder (J1K-0019-00) and speaker hardware fixture (J2B-0023-00)

- (1) Insert two tabs of the holder (J1K-0019-00) into the hollows in the top of the panel. <1>
- (2) Push the two tabs of the holder in on the opposite side of those in step 1 above and fit them into the hollow in the bottom of the panel. <2>

Note:

Push in the holder until it snaps in place.

(3) Install the speaker holder onto the panel. <3>

Note:

To improve water resistance, fit the panel into the groove of the holder.

(4) Place the speaker into the speaker holder.

Note:

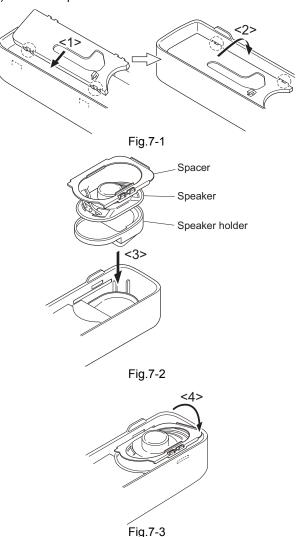
The speaker must not ride on the holder rib.

- (5) Place the spacer on the speaker.
- (6) Insert the hardware fixture (J2B-0023-00) into the hollow of the panel as shown in Figure 7-3, then push two parts of the hardware fixture and fit it into the hollow of the top of the panel. (Fig. 7-3 <4>)

Note:

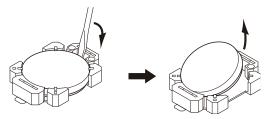
Push in the hardware fixture until it snaps in place.

- (7) Insert the speaker connector into the display unit connector (CN5).
- (8) Place the speaker lead on the holder hook.



3.2.7 Removing the lithium cell (W09-0971-05)

Insert a non-conductive screwdriver to groove of one side of the socket (CN12) and pry the lithium cell up from the socket.



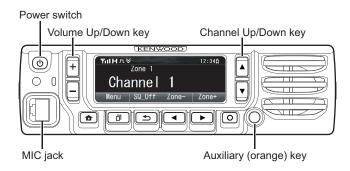
3.2.8 Installing the lithium cell (W09-0971-05)

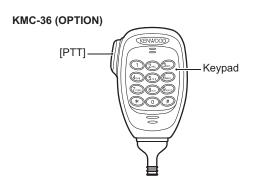
Insert a lithium cell into one side of the socket (CN12). Push the lithium cell to insert the lithium cell into the socket



SECTION 4 ADJUSTMENT

4.1 F,K TYPE Controls





4.1.1 Preparations for checking/tuning the transceiver

Before attempting to check/tune the transceiver, connect the unit to a suitable power supply.

Whenever the transmitter is turned on, the unit must be connected to a suitable dummy load (i.e. power meter).

The speaker output connector must be terminated with an 4Ω dummy load and connected to an AC voltmeter and an audio distortion meter or a SINAD measurement meter at all times during checking/tuning.

4.2 Panel Test Mode

4.2.1 Test mode operation features

This transceiver has a test mode. To enter test mode, press and hold the [←] key while turning the transceiver power ON. Before the transceiver enters test mode, the frequency version information appears on the LCD momentarily. Test mode can be inhibited by programming. To exit test mode, turn the transceiver power OFF. The following functions are available in test mode.

- When the panel test mode is activated, the last used channel and signaling numbers are displayed. When the panel test mode is activated for the first time, the channel and signaling numbers are 1.
- If test signaling 10 (P25 Phase1), 7 (P25 Phase2) and 7 (NXDN Mode) is selected, the result of Bit Error Rate (BER) calculation is displayed on the LCD.

4.2.2 Key operation

| Key | "Func" not appears on | the sub LCD display |
|-------------------------------|--|---|
| | Function | Display |
| [+] | Push: Volume up Hold: Volume up continu- ously | - |
| [-] | Push: Volume down Hold: Volume down con- tinuously | - |
| [_] | Push: Test channel up Hold: Test channel up continuously | Channel No. |
| [*] | Push: Test channel down Hold: Test channel down continuously | Channel No. |
| [4] | Push: Squelch level up *1 Hold: Squelch off | Squelch level Squelch off: [icon appears |
| [+] | Wide/Narrow/ Very Narrow *2 | Wide : "w" Narrow: "n" Very Narrow: "v" |
| | Shift to panel tuning mode | - |
| (| Function on | "Func" appears on the sub LCD display |
| [O] | MSK 1200bps and 2400bps *1 | 2400bps: ☑ icon appears |
| [a] | Push: Test signaling up Hold: Test signaling up continuously | Signaling No. |
| [AUX (Orange)] | - | - |
| [PTT] | Transmit | - |
| [0] to [9] and [#], [*) | - | - |

^{*1:} When the mode is selected as Analog, this function is enabled.

^{*2:} When the mode is selected as P25, bandwidth is fixed to Narrow.

| Key | "Func" appears on the sub LCD display | | | | | |
|-----|---|--|--|--|--|--|
| | Function | Display | | | | |
| [+] | P25 Modulation Type (C4FM/LSM) *3 | LSM : pagicon appears | | | | |
| [-] | Function off | - | | | | |
| [▲] | Talk Around on/off | On: icon appears | | | | |
| [•] | Mode selection Analog/P25 Phase1 /P25 Phase2/NXDN | Analog: "A" P25 Phase1: "P1" P25 Phase2: "P2" NXDN: "N" | | | | |
| [•] | - | - | | | | |

| Key | "Func" appears on the sub LCD display | | |
|-------------------|---------------------------------------|---|--|
| | Function | Display | |
| [•] | Key/LCD check | The contents of the pressed key etc., appear. | |
| (a) | High power/Medium power/Low power | High: "H" Medium: "M" Low: "L" | |
| <u>[</u> | Function off | - | |
| [O] | Compander on/off | On: III icon appears | |
| [^] | External Speaker on/off | On: □ icon appears | |
| [AUX (Orange)] | Function off | - | |

| Key | "Func" appears on the sub LCD display | | |
|--|---------------------------------------|---|--|
| | Function Display | | |
| [PTT] | Transmit | - | |
| [0] to [9] and [#], [X] | Function off | - | |

^{*3:} When the mode is selected as P25, this function is enabled.

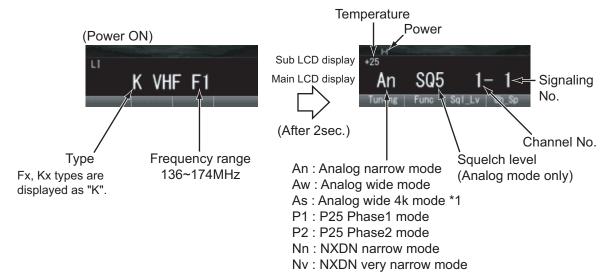
LED indicator

Red LED Lights during transmission. Green LED Lights when there is carrier.

Sub LCD indicator

"Func" Appears at function on.

LCD display in panel test mode



^{*1:} Wide 4k is displayed only when the PC test mode is used. However, it aims at production for factory, or a operation verification of the transceiver. It is not necessary in operation of the transceiver to adjust.

4.2.3 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.

(1) Test frequency

| СН | RX (MHz) | TX (MHz) |
|------|-----------|-----------|
| 1 | 155.05000 | 155.10000 |
| 2 | 136.05000 | 136.10000 |
| 3 | 173.95000 | 173.90000 |
| 4 | 155.00000 | 155.00000 |
| 5 | 155.20000 | 155.20000 |
| 6 | 155.40000 | 155.40000 |
| 7~16 | - | - |

(2) Test signaling

■Analog mode signaling

| No. | RX | TX |
|-----|--|--|
| 1 | None | None |
| 2 | None | Square Wave |
| 3 | LTR Data | LTR Data |
| 4 | QT:67.0Hz | QT:67.0Hz |
| 5 | QT:151.4Hz | QT:151.4Hz |
| 6 | QT:210.7Hz | QT:210.7Hz |
| 7 | QT:254.1Hz | QT:254.1Hz |
| 8 | DQT:D023N | DQT:D023N |
| 9 | DQT:D754I | DQT:D754I |
| 10 | DTMF Decode (CODE: 159D) | DTMF Encode (CODE: 159D) |
| 11 | None | DTMF Encode (CODE: 9) |
| 12 | 2-tone Decode (A: 304.7Hz, B: 3106.0Hz) | 2-tone Encode (A: 304.7Hz, B: 3106.0Hz) |

| No. | RX | TX |
|-----|---------------------------------|---------------------------------|
| 13 | Single Tone Decode (979.9Hz) | Single Tone Encode (979.9Hz) |
| 14 | None | Single Tone Encode (1000Hz) |
| 15 | None | MSK PN9 |
| 16 | MSK Decode | MSK Encode |

■P25 Phase1 signaling

| No. | RX | TX |
|-----|--------------------|----------------------------------|
| 1 | NAC 293 | NAC 293 |
| 2 | NAC 023 | NAC 023 |
| 3 | NAC 5EA | NAC 5EA |
| 4 | None | PN9 |
| 5 | NAC 293 | Symbol Rate Pattern |
| 6 | NAC 293 | 1/3 Deviation Pattern |
| 7 | NAC 293 | 0 Continuous Pattern |
| 8 | NAC 293 | Fidelity Pattern |
| 9 | None | FSW+PN9 |
| 10 | None | 1011Hz Tone Test Pattern |
| 11 | Tone Pattern | 1011Hz Tone Test Pattern |
| 12 | Silence Pattern | Silence Pattern |
| 13 | Audio Test Pattern | NAC293 + Audio Test Pat- tern |
| 14 | Vocoder Loop | None |

■P25 Phase2 signaling

| No. | RX | TX |
|-----|-----------------------------------|---|
| 1 | STTP-OB-1031-0 | STTP-IB1031-1+Audio |
| 2 | None | PN9 Phase2 |
| 3 | STTP-OB-1031-1 | Symbol Rate Pattern Phase2 |
| 4 | STTP-OB-1031-1 | 1/3 Deviation Pattern Phase2 |
| 5 | STTP-OB-1031-1 | 0 Continuous Pattern |
| 6 | STTP-OB-1031-1 | 0 Burst Pattern |
| 7 | STTP-OB-1031 | Symmetrical STTP-IB1031-1 |
| 8 | Tone Pattern (Half rate) | STTP-IB1031-1 |
| 9 | Silence Pattern (Half Rate) | STP-IB-1 + Silence Pattern (Half Rate) |
| 10 | Audio Test Pattern (Half Rate) | STTP-IB1031-1 + Audio Test Pattern (Half Rate) |
| 11 | Codec Loop | STTP-IB1031-1 + Codec Loop |
| 12 | Vocoder Loop (Half Rate) | STTP-IB1031-1 + Vocoder Loop (Half Rate) |

■NXDN Mode signaling

| No. | RX | TX | |
|-----|-----------------------|---------------------------|--|
| 1 | RAN1 | RAN1 | |
| 2 | None | PN9 | |
| 3 | RAN1 | Maximum Deviation Pattern | |
| 7 | FSW + PN9 | FSW + PN9 | |
| 9 | Tone Pattern (1031Hz) | Tone Pattern (1031Hz) | |

RAN: Radio Access Number PN9: Pseudo-Random Pattern No.7, 9 Item: PC test mode only

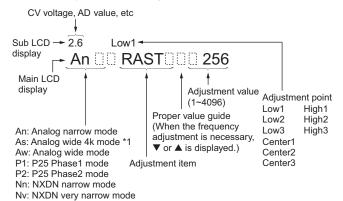
4.3 Panel Tuning Mode

4.3.1 Transceiver tuning (To enter tuning mode)

To enter tuning mode, press the $[\ \]$ key while the transceiver is in test mode. Use the $[\ \]$ key to write tuning data through tuning modes, and the $[\ \]$ key to adjust tuning requirements (1 to 4096 appears on the LCD).

Use the [♠] key to select the adjustment item through tuning modes. Use the [♠] key to adjust 4, 6 or 8 reference level adjustments, and use the [♠] key to switch between Wide5k/ Wide4k/Narrow.

· LCD display in panel tuning mode



*1: Wide 4k is displayed only when the PC test mode is used. However, it aims at production for factory, or a operation verification of the transceiver. It is not necessary in operation of the transceiver to adjust.

4.3.2 Key operation

| Key | Function | | |
|-------|--|-------------------|--|
| | Push | Hold (1 second) | |
| [+] | Volume up | Continuation up | |
| [-] | Volume down | Continuation down | |
| [•] | Adjustment value up | Continuation up | |
| [🔻] | Adjustment value down | Continuation down | |
| [•] | Auto adjustment start | - | |
| [•] | Wide/Narrow/P25/NXDN | - | |
| [a] | Shift to panel test mode | - | |
| [🛨] | To enter 5,9 or 17 reference level adjustments | - | |
| [0] | Writes the adjustment value | - | |

| Key | Function | | |
|---|---|--|--|
| | Push | Hold (1 second) | |
| [🙃] | Go to next adjustment item | Back to last adjustment item (At the time of 5, 9 or 17 point adjustment: Adjustment point change) | |
| [AUX (Orange)] | Output tone pattern change of balance ad- justment (A change is possible only during bal- ance adjustment.) | - | |
| [PTT] (MIC) | Transmit | | |
| [0] to [9] and [#],[*] (MIC) | - | | |

4.3.3 5 or 9 reference level adjustments frequency High Maximum Power, Medium Maximum Power, Low Maximum Power, High Transmit Power Limit, Mid Transmit Power Limit, Low Transmit Power Limit, High Transmit Power, Medium Transmit Power, Low Transmit Power, Maximum Deviation , P25 High Deviation, P25 H-CPM Deviation, NXDN High Deviation, QT Deviation, DQT Deviation, LTR Deviation, DTMF Deviation, Single Tone Deviation, MSK Deviation, CW ID Deviation, Sensitivity 1, Sensitivity 2, RSSI Reference, Open Squelch, Low RSSI, High RSSI, Tight Squelch

| Tuning point | Display | RX (MHz) | TX (MHz) |
|--------------|----------|-----------|-----------|
| 1 | Low 1 | 136.05000 | 136.10000 |
| 2 | Low 3 | 145.55000 | 145.60000 |
| 3 | Center 2 | 155.05000 | 155.10000 |
| 4 | High 1 | 164.55000 | 164.60000 |
| 5 | High 3 | 173.95000 | 173.90000 |

Receive Assist, Transmit Assist

| Tuning point | Display | RX (MHz) | TX (MHz) |
|--------------|----------|-----------|-----------|
| 1 | Low 1 | 136.05000 | 136.10000 |
| 2 | Low 2 | 140.80000 | 140.85000 |
| 3 | Low 3 | 145.55000 | 145.60000 |
| 4 | Center 1 | 150.30000 | 150.35000 |
| 5 | Center 2 | 155.05000 | 155.10000 |
| 6 | Center 3 | 159.80000 | 159.85000 |
| 7 | High 1 | 164.55000 | 164.60000 |
| 8 | High 2 | 169.30000 | 169.35000 |
| 9 | High 3 | 173.95000 | 173.90000 |

4.3.4 Adjustment item supplement

| Adjustment Item | Description |
|--|---|
| Receive Assist | The lock voltage of VCO (Receive) is ad- |
| | justed. This item must be adjusted before all adjustment items for receiver section are adjusted. |
| Transmit Assist | The lock voltage of VCO (Transmit) is adjusted. |
| | This item must be adjusted before all adjustment items for transmitter section are adjusted. |
| Frequency | Frequency is adjusted under receiving condition with SSG. |
| | The SSG needs 0.003ppm accuracy so please use a standard oscillator if necessary. This item can be adjusted only in BC Test. |
| | This item can be adjusted only in PC Test Mode so that the adjustment value is not changed easily. |
| Ramp Offset | Adjust this item to the optimal Ramp voltage. |
| High Maximum Power | High Maximum Power is adjusted. |
| Medium Maximum Power | Medium Maximum Power is adjusted. |
| Low Maximum Power | Low Maximum Power is adjusted. |
| High Transmit Pow- er Limit | High Transmit Power Limit is adjusted. |
| Medium Transmit Power Limit | Medium Transmit Power Limit is adjusted. |
| Low Transmit Pow- er Limit | Low Transmit Power Limit is adjusted. |
| High Transmit Power | High Transmit Power is adjusted. |
| Medium Transmit Power | Medium Transmit Power is adjusted. |
| Low Transmit Pow- er | Low Transmit Power is adjusted. |
| Balance | The transmit modulation frequency response is adjusted. |
| | This item is adjusted so that the deviation of 2kHz becomes the same deviation of 20Hz. |
| | This item must be adjusted before all adjustment items for deviations are adjusted. |
| High Deviation (P25/NXDN) | High Deviation of P25/NXDN is adjusted. |
| Maximum Deviation (Analog Wide/Nar- row) | Maximum Deviation of Analog (Wide/Narrow) is adjusted. This item must be adjusted before all ad- |
| <i>,</i> | justment items for tone deviations are adjusted. |
| QT Deviation | QT tone deviation is adjusted. |
| DQT Deviation | DQT tone deviation is adjusted. |
| LTR Deviation | LTR tone deviation is adjusted. |

| Adjustment Item | Description |
|-----------------------|--|
| DTMF Deviation | DTMF tone deviation is adjusted. |
| Single Tone Deviation | The deviation of Single Tone used in "2-tone" is adjusted. |
| MSK Deviation | MSK tone deviation is adjusted. |
| CWID Deviation | CWID tone deviation is adjusted. CWID is used to inform the others who is transmitting on a 6.25-kHz spacing channel. (In FCC rule, Analog mode or CWID is required for each channel-spacing.) |
| Sensitivity 1 | Band-Pass Filter is adjusted. The performance of Receive Sensitivity is improved. |
| Sensitivity 2 | Band-Pass Filter is adjusted. The performance of Receive Sensitivity is improved. |

| Adjustment Item | Description |
|-----------------|--|
| RSSI Reference | The minimum RSSI level for scan stop is adjusted. |
| Open Squelch | The squelch level at level "5" is adjusted. |
| Low RSSI | RSSI display level " " is adjusted. Both "Low RSSI" and "High RSSI" must be |
| High RSSI | Both "Low RSSI" and "High RSSI" must be adjusted. (The curve data of RSSI level is applied.) |
| Tight Squelch | The squelch level at level "9" is adjusted. |

4.3.5 Adjustment item and Display

| Order | Adjusutment item | Main LCD display | Sub LCD display | Aw (Analog Wide) | As *2 (Analog Wide 4k) | An (Analog Narrow) | P1 (P25 Phase1) | P2 (P25 Phase2) | Nn (NXDN Nar- row) | Nv (NXDN Very Nar- row) | Adjust item Number | | |
|-------|--------------------------------|------------------------|-------------------------|------------------------|-------------------------------|--------------------------|-----------------------|-----------------------|-----------------------------|-------------------------------------|---------------------------|--|--|
| | | | | | Adjustment range | | | | | | | | |
| 1 | Receive Assist | RAST | (CV voltage) | 9 point ADJ | 1 | | | | | | | | |
| 2 | Transmit Assist | TAST | (CV voltage) | 9 point ADJ | point ADJ | | | | | | | | |
| 3 | RTC Correction | RTC | - | - | | | | | | | | | |
| 4 | Ramp Up Offset | RAMPU | (ADC measurement value) | | 2.00~-0.01 ,0.00 ,+0.01~+2.00 | | | | | | | | |
| 5 | Ramp Down Offset | RAMPD | (ADC measurement value) | - 1~1024 | - | | | | | | | | |
| 6 | High Maximum Power | MAX_H | - | - 1~256 | - | 5 | - | - | - | - | Transmitter Section 3 | | |
| 7 | Medium Maximum Power | MAX_M | - | - 1~256 | - | 5 | - | - | - | - | Transmitter Section 4 | | |
| 8 | Low Maximum Power | MAX_L | - | - 1~256 | - | 5 | - | - | - | - | Transmitter Section 5 | | |
| 9 | High Transmit Power Limit | H_LMT | - | - 1~256 | - | 5 | - | - | - | - | Transmitter Section 6 | | |
| 10 | Medium Transmit Power Limit | M_LMT | - | - 1~256 | - | 5 | - | - | - | - | Transmitter Section 7 | | |
| 11 | Low Transmit Power Limit | L_LMT | - | - 1~256 | - | 5 | - | - | - | - | Transmitter Section 8 | | |
| 12 | High Transmit Power | H_PWR | - | - 1~1024 | - | 5 | - | - | - | - | Transmitter Section 9 | | |
| 13 | Medium Transmit Power | M_PWR | - | - 1~1024 | - | 5 | - | - | - | - | Transmitter Section 10 | | |

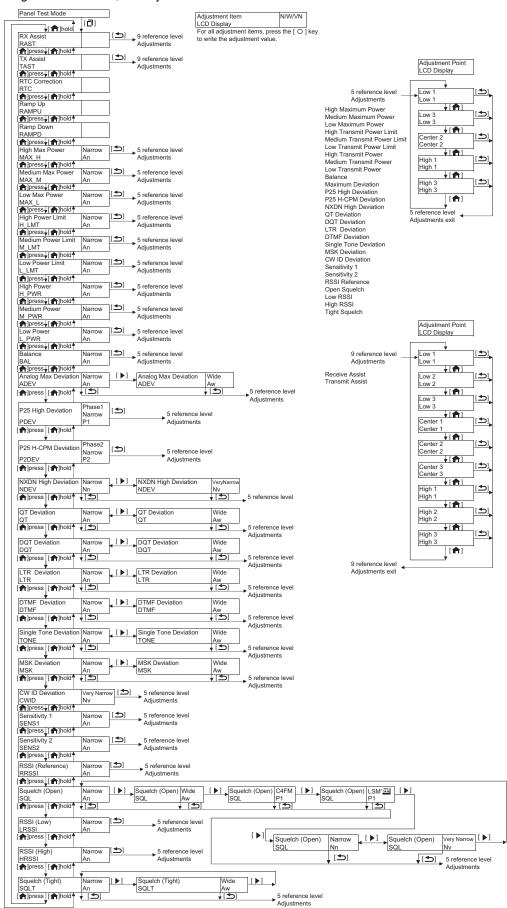
| Order | Adjusutment item | Main LCD display | Sub LCD display | Aw (Analog Wide) | As *2 (Analog Wide 4k) | An (Analog Narrow) | P1 (P25 Phase1) | P2 (P25 Phase2) | Nn (NXDN Nar- row) | Nv (NXDN Very Nar- row) | Adjust item Number | |
|-------|--------------------------|------------------------|----------------------------|------------------------|------------------------------|--------------------------|-----------------------|-----------------------|-----------------------------|-------------------------------------|---------------------------|--|
| | | | | | | Adjus | tment ran | ge | | | | |
| 14 | Low Transmit Power | L_PWR | - | - 1~1024 | - | 5 | - | - | - | - | Transmitter Section 11 | |
| 15 | Balance | BAL | (Encode frequency) | - | - | 5 | - | - | - | - | Transmitter | |
| | | | | 1~1024 | 1 | | | | | I | Section 12 | |
| 16 | Maximum | ADEV | - | 5 | 5 *2 | 5 | - | - | - | - | Transmitter | |
| | Deviation | | | 1~1024 | • | • | | • | | | Section 13 | |
| 17 | P25 High | PDEV | - | - | - | - | 5 | - | - | - | Transmitter | |
| | Deviation | | | 1~1024 | | | | | | | Section 14 | |
| 18 | P25 H-CPM | P2DEV | (RSSI measurement | - | - | - | - | 5 | - | - | Transmitter | |
| | Deviation | | value) | 1~1024 | | | | | | | Section 15 | |
| 19 | NXDN High | NDEV | - | - | - | - | - | - | 5 | 5 | Transmitter | |
| | Deviation | | | 1~1024 | | | | | | | Section 16 | |
| 20 | QT Deviation | QT | - | 5 | 5 *2 | 5 | - | - | - | - | Transmitter | |
| | | | | 1~1024 | | | | | | | Section 17 | |
| 21 | DQT Deviation | DQT | - | 5 | 5 *2 | 5 | - | - | - | - | Transmitter | |
| | | | | 1~1024 | | | | | | | Section 18 | |
| 22 | LTR Deviation | LTR | - | 5 | 5 *2 | 5 | - | - | - | - | Transmitter | |
| | | | | 1~1024 | | | | | | | Section 19 | |
| 23 | DTMF Deviation | DTMF | - | 5 | 5 *2 | 5 | - | - | - | - | Transmitter | |
| | | | | 1~1024 | | | | | | | Section 20 | |
| 24 | Single Tone Deviation | TONE | - | 5 | 5 *2 | 5 | - | - | - | - | Transmitter Section 21 | |
| | Deviation | | | 1~1024 | T | | | | | | Section 21 | |
| 25 | MSK Deviation | MSK | - | 5 | 5 *2 | 5 | - | - | - | - | Transmitter Section 22 | |
| | | | | 1~1024 | Ţ | 1 | 1 | ı | ı | 1 | | |
| 26 | CW ID Deviation | CWID | - | - | - | 5 | - | - | - | - | Transmitter Section 23 | |
| | | | | 1~1024 | T | | T | T | ı | T | | |
| 27 | Sensitivity 1 | SENS1 | (RSSI measurement value) | | - | 5 | = | - | - | - | Receiver Section 3 | |
| | | | , | 1~256 | T | | 1 | 1 | ı | ı | | |
| 28 | Sensitivity 2 | SENS2 | (RSSI measurement value) | | - | 5 | - | - | - | - | Receiver Section 2 | |
| | | | * | 1~256 | 1 | F_ | 1 | 1 | ı | ı | | |
| 29 | RSSI Reference | RRSSI | (RSSI measurement value) | | - | 5 | - | - | - | - | Receiver Section 4 | |
| | | 0.01 | , | 1~256 | I= +0 | I- | l = +0 | ı | I_ | 1_ | | |
| 30 | Open Squelch | SQL | (ASQDET measurement value) | 5 | 5 *2 | 5 | 5 *3 | - | 5 | 5 | Receiver Section 5 | |
| 24 | Lew DOOL | I DOO! | , | 1~256 | 1 | l _e | 1 | 1 | | T . | | |
| 31 | Low RSSI | LRSSI | (RSSI measurement value) | | [- | 5 | - | - | - | - | Receiver Section 6 | |
| 22 | High DCCI | прест | | 1~256 | 1 | T _E | 1 | 1 | | T . | | |
| 32 | High RSSI | HRSSI | (RSSI measurement value) | | <u> </u> - | 5 | - | - | - | - | Receiver Section 7 | |
| 22 | Tight Causists | SOLT. | * | 1~256 | E *2 | E | | | | 1 | Receiver | |
| 33 | Tight Squelch | SQLT | (ASQDET measurement value) | 5 1~256 | 5 *2 | 5 | <u> </u> - | - | - | - | Section 8 | |

^{*2:} Wide 4k can be set up only when the PC test mode is used.
*3: When P25 Phase1 is selected, in C4FM and LSM, there is an adjustment item, respectively.

4.3.6 Panel tuning mode flow chart

Note:

* In this Panel tuning mode flow chart, the Adjustment item name is modified.



4.4 BER (Bit Error Rate) Measurement

- (1) The Panel Test Mode is used to measure the BER (Refer "4.2.1 Test mode operation features").
- (2) Select "10" (P25 Phase1), "7" (P25 Phase2) and "7" (NXDN Mode) for test signaling (Refer to "4.2.3 Frequency and Signaling" (2) Test signaling).

Note:

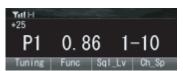
"7" (NXDN Mode) can be selected only by PC test mode.

- (3) Select a bandwidth (Narrow/Very Narrow) by pressing the [►] key. When P25 Phase1 or P25 Phase2 is selected, it is not necessary to select a bandwidth.
- (4) Select a test frequency ("4.2.3 Frequency and Signaling" (2) Test signaling Test frequency).

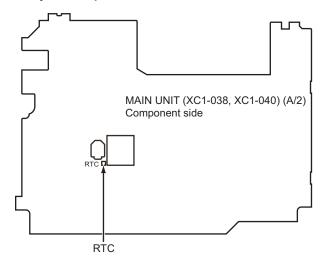


- (5) Measure the BER (Bit Error Rate) using the digital radio tester.
 - Enter a standard input signal into the transceiver as a standard tone test pattern for P25, FSW+PN9 for NXDN.
- (6) Adjust the input signal level to achieve the standard bit error rate (BER).

(For example, if the BER is 0.86%, the display shows "0.86".)



4.5 Adjustment points

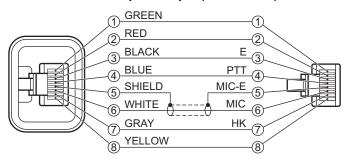


4.6 Test Equipment Required for Alignment

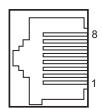
| Test Equipment | | Major Specifications | | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|--|--|
| Standard Signal Generator (SSG) | Frequency Range Modulation Output | 100 to 900MHz Frequency modulation and external modulation -127dBm/0.1uV to greater than -20dBm/22.4mV | | | | | | | |
| | When performing the Frequency adjustment, the following accuracy is necessary. • 0.003ppm Use a standard oscillator for adjustments, if necessary. | | | | | | | | |
| 2. Power Meter | Input Impedance Operation Frequency Measurement Capability | 50Ω 100 to 900MHz Vicinity of 100W | | | | | | | |
| 3. Deviation Meter | Frequency Range | 100 to 900MHz | | | | | | | |
| 4. Digital Volt Meter (DVM) | Measuring Range Input Impedance | 10mV to 20V DC High input impedance for minimum circuit loading | | | | | | | |
| 5. Oscilloscope | | DC through 30MHz | | | | | | | |
| 6. Frequency Counter | Frequency Range Frequency Stability | 10Hz to 1000MHz 0.2ppm or less | | | | | | | |
| | To measure the oscillating frequency of the internal clock 32766.00Hz~32770.00Hz fo RTC Correction Resolution 0.01Hz is better for accuracy adjustment. | | | | | | | | |
| 7. Ammeter | | 20A or more | | | | | | | |
| 8. AF Volt Meter (AF VM) | Frequency Range Voltage Range | 50Hz to 10kHz 1mV to 10V | | | | | | | |
| 9. Audio Generator (AG) | Frequency Range Output | 50Hz to 5kHz or more 0 to 1V | | | | | | | |
| 10. Distortion Meter | Capability Input Level | 3% or less at 1kHz 50mV to 10Vrms | | | | | | | |
| 11. Spectrum Analyzer | Measuring Range | DC to 1GHz or more | | | | | | | |
| 12. 4Ω Dummy Load | | Approx. 4Ω, 10W | | | | | | | |
| 13. Regulated Power Supply | | 13.6V, approx. 20A (adjustable from 9V to 17V) Useful if ammeter equipped | | | | | | | |

^{*}The test equipment which is not used for adjustment is contained in this table.

■Test cable for microphone input (E30-3360-28)



■MIC connector (Front panel view)



1 : BLC 2:+B

3 : GND

4 : PTT/TXD (PC serial data from radio)

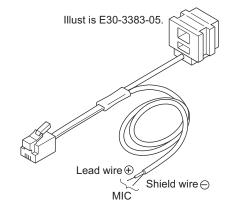
5: MICE 6 : MIC

7 : HOOK/RXD (PC serial data to radio)

8 : DM

■Tuning cable (E30-3383-05 or E30-7754-05)

Adapter cable (E30-3383-05 or E30-7754-05) is required for injecting an audio if PC tuning is used. See "PC Mode" section for the connection.



4.7 Radio check Section

| Item | | Condition | Meas | sureme | ent | | Adjus | tment | Specifica- |
|------------------------------|-------------------------------------|--|---------------------------|--------|----------|------|-------|---|----------------------------------|
| | Panel test mode | PC test mode | Test- equipment | Unit | Terminal | Unit | Parts | Method | tions /Remarks |
| 1. Frequency check | 1)CH-Sig: 1-1 PTT: ON | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | f. counter | Panel | ANT | | | Check an internal temperature of radio from 20°C to 33°C. | ±0.25ppm ±38.7Hz @155.1MHz |
| 2. High power check | 1)CH-Sig: 1-1 PTT: ON TA: OFF | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 45W~55W 13A or less |
| | 2)CH-Sig: 2-1 PTT: ON TA: OFF | 2)Test Channel Channel: 2 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 45W~55W 13A or less |
| | 3)CH-Sig: 3-1 PTT: ON TA: OFF | 3)Test Channel Channel: 3 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 45W~55W 13A or less |

| Item | | Condition | Meas | sureme | ent | | Adjus | Specifica- | |
|-----------------------------------|--|---|---|--------|----------------------------------|------|-------|--|-------------------------|
| | Panel test mode | PC test mode | Test- equipment | Unit | Terminal | Unit | Parts | Method | tions /Remarks |
| 3. Low power check | 1)CH-Sig: 1-1 PTT: ON TA: OFF | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | | Panel | ANT | | | Check | 3.5W~6.5W 7A or less |
| | 2)CH-Sig: 2-1 PTT: ON TA: OFF | 2)Test Channel Channel: 2 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 3.5W~6.5W 7A or less |
| | 3)CH-Sig: 3-1 PTT: ON TA: OFF | 3)Test Channel Channel: 3 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 3.5W~6.5W 7A or less |
| 4. MIC sensitivity check | 1)CH-Sig: 1-1 AG: 1kHz PTT: ON | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 AG: 1kHz PTT: Press [Transmit] button. | Deviation meter Oscillo- scope AG AF VM | Panel | ANT MIC jack | | | Adjust AG input to get a standard MOD. | 5mV ±1mV |
| 5. Sensitivity check | 1)CH-Sig: 1-1 SSG output Wide: -117dBm (0.32µV) (MOD: 1kHz/±3kHz) Narrow: -117dBm (0.32µV) (MOD: 1kHz/ ±1.5kHz) | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 SSG output Wide: -117dBm (0.32µV) (MOD: 1kHz/±3kHz) Narrow: -117dBm (0.32µV) (MOD: 1kHz/±1.5kHz) | SSG AF VM Oscilloscope Distortion meter 4Ω Dummy load | Panel | ANT Ext. SP connec- tor | | | Check | 12dB SINAD or more |

4.8 Common Section

| Item | С | ondition | Mea | surem | ent | | A | Adjustment | Specifications |
|-------------------------|---|--------------|-------------------------|-------|---------------|-------|-----------------------------------|---|---|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | /Remarks |
| 1. Setting | | | | | | | | | |
| 2. Receive Assist | Adjust:[****] | | | | | Panel | tuning mode] [▲], [▼] [PC test | [PC test mode] [Automatic Adjustment] 1) Press [Tune Assist Voltage] button. 2) Press [Apply All] button to store the adjustment value after the automatic adjustment has finished. [Manual Adjustment] [V] indicator on the PC window shows VCO lock voltage. Change the adjustment value to get VCO lock voltage within the limit of the specified voltage. Note: Confirm the VCO lock voltage approximately 3 seconds after the adjustment value is changed. | Press [Apply All] button to store the adjustment value after all adjustment point have been adjusted. |
| | Adjust:[****] 2) Adj item: [Low1 TAST]→ [Low2 TAST]→ [Low3 TAST]→ [Center1 TAST]→ [Center2 TAST]→ [Center3 TAST]→ [High1 TAST]→ [High2 TAST]→ [High3 TAST] Adjust:[****] PTT: ON Press [O] key | | | | | Panel | tuning mode] | [PC test mode] [Automatic Adjustment] 1) Press [Tune Assist Voltage] button. 2) Press [Apply All] button to store the adjustment value after the automatic adjustment has finished. [Manual Adjustment] [V] indicator on the PC window shows VCO lock voltage. Change the adjustment value to get VCO lock voltage within the limit of the specified voltage. Note: Confirm the VCO lock voltage approximately 3 seconds after the adjustment value is changed. | 2.5V±0.1V [Automatic Adjustment] After the automatic adjustment is performed, verify that the VCO lock voltage is within the voltage range which is specified by the manual adjustment. [Manual Adjustment] Press [Apply All] button to store the adjustment value after all adjustment point have been adjusted. Note: The assist adjustment value must be between from 340 to 3550. |

| Item | С | ondition | Mea | surem | ent | | P | Adjustment | Specifications |
|------------------------------|--|--|---------------------------|-------|--------------------------|-------|--|---|--|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | /Remarks |
| 4. Frequency | *The Frequency adjustment can be performed only in PC test mode. | 1) Adj item: [Frequency] SSG output: -20dBm (22.4mV) (CW (without modulation)) Caution: Perform the frequency adjustment under the following conditions. • Temperature range of +20°C to +33°C (+68.0°F to +91.4°F). (The temperature is displayed on the Frequency adjustment screen of the KPG-D1/D1N and the LCD of the transceiver.) • Use an accuracy of 0.003ppm for the SSG. (Use a standard oscillator if necessary.) | SSG | Panel | ANT | Panel | tuning mode] [♠], [♥C test mode] [←], [→] | [PC test mode] Press [Start] button of "Auto Tuning". Press [Apply] button to store the adjustment value after the automatic adjustment has finished. | in 0±10 digits. The value of "IF20" will become around "0" |
| 5. RTC Corre- citon | | 1) Adj item: [RTC Correction] Data: {****] Press [Apply] button to store the adjustment value. | Fre- quency Counter | Panel | TEST POINT (CN715) | | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | [Panel tuning mode] Press [O] key to store the adjustment value. [PC test mode] Press [Apply] button to store the adjustment value. | Remaks: Change the adjustment value so that the frequency currently displayed on "Crystal Oscillation Frequency" on the PC window and the frequency currently displayed on the frequency counter are in agreement. |

4.9 Transmitter Section

| Item | Con | dition | Mea | surem | ent | | <u> </u> | Adjustment | Specifica- |
|-------------------------------------|--|---|---------------------------|-------|---------------|-------|---|--|---|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 1. Ramp up Offset | 1) Adj item: [RAMPU] Adjust:[****] PTT : ON Press [O] key to store the adjust- ment value. | 1) Adj item: [Ramp Up Offset] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | [PC test mode] [Automatic Adjustment] 1) Press [Tune Rump Offset] button. 2) Press [Apply All] button to store the adjustment value after the automatic adjustment has finished. [Manual Adjustment] 1) Set the adjustment value to "1". 2) Increase the adjustment value slowly while monitoring the offset monitor value. 3) Set the adjustment value when the offset monitor value exceed "50". | |
| 2. Ramp down Offset | 1) Adj item: [RAMPD] Adjust:[****] PTT : ON Press [O] key to store the adjustment value. | 1) Adj item: [Ramp Down Offset] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | [PC test mode] [Automatic Adjustment] 1) Press [Tune Rump Offset] button. 2) Press [Apply All] button to store the adjustment value after the automatic adjustment has finished. [Manual Adjustment] 1) Set the adjustment value to "1". 2) Increase the adjustment value slowly while monitoring the offset monitor value. 3) Set the adjustment value when the offset monitor value exceed "20". | |
| 3. High Maxi- mum Power | 1) Adj item: [H_MAX] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [High Maximum Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | 55W | ±1W 15A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |

| Item | Con | dition | Mea | surem | ent | | | adjustment | Specifica- |
|---|---|---|---------------------------|-------|---------------|-------|---|--|--|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 4. Medium Maxi- mum power | 1) Adj item: [M_MAX] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [Medium Maximum Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | 55W | ±1W 15A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 5. Low Maxi- mum power | 1) Adj item: [L_MAX] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Low Maximum Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | 55W | ±1W 15A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 6. High Trans- mit Power Limit | 1) Adj item: [H_LMT] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] PTT : OFF Press [O] key to store the adjustment value. | 1) Adj item: [High Transmit Power Limit] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | | | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 256 (Fixed) | |
| 7. Medium Trans- mit Power Limit | 1) Adj item: [M_LMT] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] PTT: OFF Press [O] key to store the adjustment value. | 1) Adj item: [Medium Transmit Power Limit] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 256 (Fixed) | |

| Item | Con | dition | Measurement Adjustment | | | | Specifica- | | |
|--|--|--|---------------------------|-------|---------------|-------|---|--|--|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 8. Low Trans- mit Power Limit | 1) Adj item: [L_LMT] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] PTT: OFF Press [O] key to store the adjustment value. | 1) Adj item: [Low Transmit Power Limit] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 256 (Fixed) | |
| 9. High Trans- mit Power | 1) Adj item: [H_PWR] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [High Transmit Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | $ [\text{Panel tuning mode}] \\ [\blacktriangle], \\ [\blacktriangledown], \\ [\text{PC test mode}] \\ [\leftarrow], \\ [\rightarrow] $ | Note: High Transmit Power Is the purpose of the custom power (adjustment). This Power must be lower than High transmit power. | ±1W 13A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 10. Medium Trans- mit Power | 1) Adj item: [M_PWR] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [Medium Transmit Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | the custom power (adjustment). This power must be lower than High trans- mit power. In the production, this Medium transmit pow- er is adjusted at 5.0W. | ±0.5W 7A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 11. Low Trans- mit Power | 1) Adj item: [L_PWR] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Low Transmit Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | 5W | ±0.5W 7A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |

| Item | Con | dition | Mea | surem | ent | | - | djustment | Specifica- |
|---|--|--|--|-------|---------------|-------|---------------------------|---|---|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 12. Balance *1 | 1) Adj item: [Balance] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjust- ment value. | 1) Adj item: [Balance] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscillo- scope | Panel | ANT | Panel | tuning mode] | The Deviation of 20Hz frequency is fixed. Change the 2kHz adjustment value to become the same deviation of 20Hz within the specified range. (a supplementary explanation: Another way to adjust is ready. (Same as TK-5710, the old model of NX-5700). Press [AUX(Orange)] key to switch the tone to 100Hz square wave. Then, make the demodulation waveform shown on oscilloscope into square shape.) | 2kHz Tone deviation is within ± 1.0% of 20Hz tone deviation. [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| | | essary Deviation adjust common with the adjus | | | | | | | |
| 13. Maximum Deviation *2 [Analog Wide] | 1) Adj item: [ADEV] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1] → [Low3] → [Center2] → [High1] → [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | | Deviation meter Oscil- Io- scope | Panel | | | [Panel tuning mode] | Write fixed value "491" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 4150Hz and 4250Hz. Deviation meter LPF: 15kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |

| Item | Con | dition | Mea | surem | ent | | - | Specifica- | |
|------------------------------------|--|--|--|-------|---------------|-------|---|---|---|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| [Analog Narrow] | 1) Adj item: [An ADEV] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [Maxmum Deviation (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | mode] | Write fixed value "491" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 2050Hz and 2150Hz. Deviation meter LPF: 15kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| | | essary Deviation adjust | | | | | | e" table. | |
| 14. P25 High Devia- tion | 1) Adj item: [P1 PDEV] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1] [Conter2] [High1] [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | eviation (Analog), it is on the control of the cont | Deviation meter Oscil- lo- scope | Panel | | | [Panel tuning mode] | Write fixed value "493" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 2771Hz and 2883Hz. Deviation meter LPF: 3kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] | 2771~2883Hz [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 15. P25 H-CPM Devia- tion | 1) Adj item: [P2 P2DEV] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [P25 H-CPM Deviation] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | button Write fixed value "476" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 3090Hz and 3215Hz. Deviation meter LPF: 3kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | 3090~3215Hz [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |

| Item | Con | dition | Mea | surem | ent | | - | Adjustment | Specifica- |
|---|---|---|--|-------|---------------|-------|---|--|---|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 16. NXDN High Devia- tion [NXDN Narrow] | 1) Adj item: [Nn NDEV] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [NXDN High Deviation (NXDN Narrow] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write fixed value "492" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 2995Hz and 3117Hz. Deviation meter LPF: 3kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| [NXDN Very Narrow] | 1) Adj item: [Nv NDEV] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [NXDN High Deviation (NXDN Very Narrow] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | Write fixed value "491" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 1311Hz and 1363Hz. Deviation meter LPF: 3kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | I311~1363Hz [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 17. QT Devia- tion *3 [Analog Wide] | 1) Adj item: [Aw QT] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [QT Deviation (Analog Wide)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- Io- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 528 | 0.75kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | A | Adjustment | Specifica- |
|---|--|--|--|-------|---------------|-------|---|------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| [Analog Narrow] | 1) Adj item: [An QT] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [QT Deviation (Analog Narrow)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 528 | 0.35kHz±0.05 kHz |
| 18. DQT Deviation *3 [Analog Wide] | 1) Adj item: [Aw DQT] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [DQT Deviation (Analog Wide)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 433 | 0.75kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An DQT] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [DQT Deviation (Analog Narrow)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | _ | Write the value as followings. 433 | 0.35kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | A | Adjustment | Specifica- |
|--|---|---|--|-------|---------------|-------|---|-------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 19. LTR Devia- tion *3 [Analog Wide] | 1) Adj item: [Aw LTR] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [LTR Deviation (Analog Wide)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 480 | 1.00kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An LTR] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [LTR Deviation (Analog Narrow)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- Io- scope | Panel | ANT | Panel | [Panel tuning mode] [♠], [▼] [PC test mode] [←], [→] | Write the value as followings. 480 | 0.75kHz±0.05 kHz |
| 20. DTMF Devia- tion *3 [Analog Wide] | 1) Adj item: [Aw DTMF] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [DTMF Deviation (Analog Wide)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [OK] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | Write the value as followings. 548 | 2.50kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | <u> </u> | Adjustment | Specifica- |
|--|--|--|--|-------|---------------|-------|--|------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| [Analog Narrow] | 1) Adj item: [An DTMF] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [DTMF Deviation (Analog Narrow)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 548 | 1.25kHz±0.05 kHz |
| 21. Single Tone Deviation *3 [Analog Wide] | 1) Adj item: [Aw TONE] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Single Tone Deviation (Analog Wide)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 517 | 3.00kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An TONE] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Single Tone Deviation (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | | [Panel tuning mode] [♠], [▼] [PC test mode] [←], [→] | Write the value as followings. 517 | 1.50kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | <u> </u> | Adjustment | Specifica- |
|--|--|---|--|-------|---------------|-------|--|------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 22. MSK Devia- tion *3 [Analog Wide] | 1) Adj item: [Aw MSK] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [MSK Deviation (Analog Wide)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 504 | 3.00kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An MSK] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [MSK Deviation (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 504 | 1.50kHz±0.05 kHz |
| | 1) Adj item: [An CWID] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [CWID Deviation (Analog Narrow)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1] → [Low3] → [Center2] → [High1] → [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | | | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | | 1.10kHz±0.10 kHz |

4.9.1 Necessary Deviation adjustment item for each signaling and mode

The following shows the necessary adjustment items for each signaling deviation. Please read the following table like the following example. In the case of the signaling "QT (Analog Wide)", this signaling is composed of three elements [Balance, Maximum Deviation (Analog Wide) and QT Deviation (Analog Wide)]. Please adjust Balance and Maximum Deviation (Analog Wide) before adjusting QT Deviation (Analog Wide).

| Mode | Signaling | | Necessary adjustment and order | |
|--------|------------------------|--|---|--|
| | | Wide | Narrow | Very Narrow |
| Analog | Audio | Balance adjust Maximum Deviation [Analog Wide] | Balance adjust Maximum Deviation [Analog Narrow] | - |
| | QT | Balance adjust Maximum Deviation [Analog Wide] QT Deviation [Analog Wide] | Balance adjust Maximum Deviation [Analog Narrow] QT Deviation [Analog Narrow] | - |
| | DQT | Balance adjust Maximum Deviation [Analog Wide] DQT Deviation [Analog Wide] | Balance adjust Maximum Deviation [Analog Narrow] DQT Deviation [Analog Narrow] | - |
| | LTR | Balance adjust Maximum Deviation [Analog Wide] LTR Deviation [Analog Wide] | Balance adjust Maximum Deviation [Analog Narrow] LTR Deviation [Analog Narrow] | _ |
| | DTMF | Balance adjust Maximum Deviation [Analog Wide] DTMF Deviation [Analog Wide] | Balance adjust Maximum Deviation [Analog Narrow] DTMF Deviation [Analog Narrow] | - |
| | 2TONE | Balance adjust Maximum Deviation [Analog Wide] Single Tone Deviation [Analog Wide] | 1. Balance adjust 2. Maximum Deviation [Analog Narrow] 3. Single Tone Deviation [Analog Narrow] | - |
| | MSK (Fleet sync) | Balance adjust Maximum Deviation [Analog Wide] MSK Deviation [Analog Wide] | Balance adjust Maximum Deviation [Analog Narrow] MSK Deviation [Analog Narrow] | - |
| P25 | | - | 1. Balance adjust 2. P25 High Deviation 3. P25 High Deviation (H-CPM) | - |
| NXDN | Audio | - | Balance adjust High Deviation [NXDN Narrow] | Balance adjust High Deviation [NXDN Very Narrow] |
| | CWID | - | - | Balance adjust High Deviation [NXDN Very Narrow] CWID Deviation [NXDN Very Narrow] |

[•] Balance is common with all the above deviation adjustments. If Balance (Transmitter Section 12) has already adjusted, please skip Step1 and adjust from Step2.

[•] Maximum Deviation (Analog Wide/Narrow) is common with all the analog signaling deviations. If Balance and Maximum Deviation (Analog Wide /Narrow) (Transmitter Section 13) have already adjusted, please skip Step2 and adjust from Step3.

4.10 Receiver Section

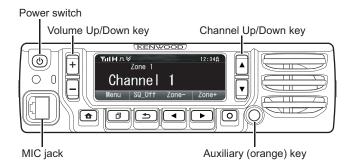
| Item | Cor | ndition | Mea | surem | ent | | | Adjustment | Specifi- |
|---------------------------|--|---|--|-------|-------------------------------------|-------|---|--|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | cations /Remarks |
| 1. AF level setting | [Panel test mode] 1) CH-Sig: 1-1 SSG output: -47dBm (1mV) (MOD: 1kHz/ ±1.5kHz) | 1) Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 SSG output: -47dBm (1mV) (MOD:1kHz/ ±1.5kHz) | SSG DVM AF VM Dummy load | Panel | ANT Ext. SP con- nector | Panel | $ [Panel \\ tuning \\ mode] \\ [+], [-] \\ [PC \\ test \\ mode] \\ [\leftarrow], \\ [\rightarrow] $ | Volume Up/Down knob to obtain 1.41V AF output. (0.5W @ 4Ω load) | 1.41V ±0.1V |
| 2. Sen- sitivity 2 | 1) Adj item: [An SENS2] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[***] Press [O] key to store the adjustment value. | 1) Adj item: [Sensitivity 2] 2) Adj item: [Low1], [Low3], [Center2], [High1], [High3] Press [Apply All] button to store the adjustment value. | SSG AF VM Dummy load | Panel | ANT Ext. SP con- nector | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. [Low1]: 80 (Fixed) [Low3]: 85 (Fixed)) [Center2]: 110 (Fixed) [High1]: 135 (Fixed) [High3]: 160 (Fixed) | |
| 3. Sensitivity 1 | 1) Adj item: [An SENS1] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -100dBm (2.2µV) (MOD: 1kHz/ ±1.5kHz) Adjust:[***] Press [O] key to store the adjustment value. | 1) Adj item: [Sensitivity 1] 2) Adj item: [Low1], [Low3], [Center2], [High1], [High3] SSG output: -100dBm (2.2µV) (MOD: 1kHz/ ±1.5kHz) Press [Apply All] button to store the adjustment value. | SSG AF VM Dummy load | Panel | ANT Ext. SP con- nector | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | 1) The sub LCD display shows the RSSI value. Change the adjustment value to get maximum RSSI value. 2) Store the adjustment value. Note: In the PC test mode, you can also perform the Automatic adjustment. When the Automatic adjustment is performed in the PC test mode, a RSSI value is updated by press [Apply All] button. Press [Apply All] button after the adjustment and check the state of the newest RSSI. | |
| 4. RSSI refer- ence | 1) Adj item: [An RRSSI] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level -3dB (MOD: 1kHz/±1.5kHz) | 1) Adj item: [RSSI Reference (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level -3dB (MOD: 1kHz/±1.5kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |

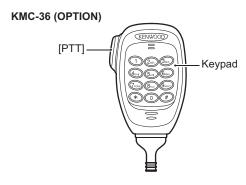
| Item | Condition | | | surem | ent | | | Adjustment | Specifi- |
|---|--|--|--|-------|-------------------------------------|-------|-------|--|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- | Unit | Ter- minal | Unit | Parts | Method | cations /Remarks |
| 5. Open Squelch [Analog Wide] | 1) Adj item: [Aw SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD:1kHz/±3kHz) | 1) Adj item: [Open Squelch (Analog Wide)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level -3dB (MOD: 1kHz/±3kHz) | ment SSG Distor- tion meter Oscillo- scope | Panel | Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [Analog Narrow] | 1) Adj item: [An SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD:1kHz/±1.5kHz) | 1) Adj item: [Open Squelch (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level -3dB (MOD: 1kHz/ ±1.5kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [P25 (C4FM)] | 1) Adj item: [P1 SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -1dB (MOD: 1kHz/ ±2.2kHz) | 1) Adj item: [Open Squelch (P25 C4FM)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -1dB (MOD: 1kHz/ ±2.2kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [P25 (LSM)] | 1) Adj item: [P1 SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD: 1kHz/ ±3.3kHz) | 1) Adj item: [Open Squelch (P25 LSM)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD: 1kHz/ ±3.3kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |

| Item | Con | dition | Mea | surem | ent | | | Specifi- | |
|--------------------------|--|--|--|-------|-------------------------------------|-------|-------|--|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Adjustment Method | cations /Remarks |
| [NXDN Narrow] | 1) Adj item: [Nn SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -1dB (MOD: 400Hz/ ±2.5kHz) | 1) Adj item: [Open Squelch (NXDN Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -1dB (MOD: 400Hz/ ±2.5kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [NXDN Very Narrow] | 1) Adj item: [Nv SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD: 400Hz/ ±1.2kHz) | 1) Adj item: [Open Squelch (NXDN Very Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD: 400Hz/ ±1.2kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| 6. Low RSSI | 1) Adj item: [An LRSSI] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -118dBm (0.28µV) (MOD: 1kHz/ ±1.5kHz) | 1) Adj item: [Low RSSI (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -118dBm (0.28µV) (MOD: 1kHz/ ±1.5kHz) | SSG | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| 7. High RSSI | 1) Adj item: [An HRSSI] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -80dBm (22.4µV) (MOD: 1kHz/ ±1.5kHz) | 1) Adj item: [High RSSI (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -80dBm (22.4µV) (MOD: 1kHz/ ±1.5kHz) | SSG | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |

| Item | Condition | | Measurement | | | Adjustment | | Specifi- | |
|--|---|--|--|-------|-------------------------------------|------------|-------|--|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | cations /Remarks |
| 8. Tight Squelch [Analog Wide] | 1) Adj item: [Aw SQLT] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/ ±3kHz) | 1) Adj item: [Tight Squelch (Analog Wide)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/±3kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [Analog Narrow] | 1) Adj item: [An SQLT] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/ ±1.5kHz) | 1) Adj item: [Tight Squelch (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/ ±1.5kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |

4.11 E TYPE Controls





4.11.1 Preparations for checking/tuning the transceiver

Before attempting to check/tune the transceiver, connect the unit to a suitable power supply.

Whenever the transmitter is turned on, the unit must be connected to a suitable dummy load (i.e. power meter).

The speaker output connector must be terminated with an 4Ω dummy load and connected to an AC voltmeter and an audio distortion meter or a SINAD measurement meter at all times during checking/tuning.

4.12 Panel Test Mode

4.12.1 Test mode operation features

This transceiver has a test mode. To enter test mode, press and hold the [] key while turning the transceiver power ON. Before the transceiver enters test mode, the frequency version information appears on the LCD momentarily. Test mode can be inhibited by programming. To exit test mode, turn the transceiver power OFF. The following functions are available in test mode.

- When the panel test mode is activated, the last used channel and signaling numbers are displayed. When the panel test mode is activated for the first time, the channel and signaling numbers are 1.
- If test signaling 10 (P25 Phase1), 7 (P25 Phase2) and 7 (NXDN Mode) is selected, the result of Bit Error Rate (BER) calculation is displayed on the LCD.

4.12.2 Key operation

| Key | "Func" not appears on the sub LCD display | | |
|--|--|---|--|
| | Function | Display | |
| [+] | Push: Volume up Hold: Volume up continu- ously | - | |
| [-] | Push: Volume down Hold: Volume down con- tinuously | - | |
| [] | Push: Test channel up Hold: Test channel up continuously | Channel No. | |
| [▼] | Push: Test channel down Hold: Test channel down continuously | Channel No. | |
| [1] | Push: Squelch level up *1 Hold: Squelch off | Squelch level Squelch off: [] icon appears | |
| [+] | Wide 5k/Wide 4k/Narrow/ Very Narrow *2 | Wide 5k : "w" Wide 4k : "s" Narrow: "n" Very Narrow: "v" | |
| | Shift to panel tuning mode | - | |
| <u>[</u> | Function on | "Func" appears on the sub LCD display | |
| [O] | MSK 1200bps and 2400bps *1 | 2400bps: icon appears | |
| [^] | Push: Test signaling up Hold: Test signaling up continuously | Signaling No. | |
| [AUX (Orange)] | - | - | |
| [PTT] | Transmit | - | |
| [0] to [9] and [#], [x] | - | - | |

^{*1:} When the mode is selected as Analog, this function is enabled.

^{*2:} When the mode is selected as P25, bandwidth is fixed to Narrow.

| Key | "Func" appears on t | he sub LCD display |
|-----|---|---|
| | Function | Display |
| [+] | P25 Modulation Type (C4FM/LSM) *3 | LSM : pp icon appears |
| [-] | Function off | - |
| [▲] | Talk Around on/off | On: icon appears |
| [+] | Mode selection Analog/P25 Phase1 /P25 Phase2/NXDN | Analog: "A" P25 Phase1: "P1" P25 Phase2: "P2" NXDN: "N" |
| [•] | - | - |
| [+] | Key/LCD check | The contents of the pressed key etc., appear. |

| Key | "Func" appears on t | he sub LCD display |
|-------------------|-----------------------------------|--------------------------------------|
| | Function | Display |
| | High power/Medium power/Low power | High: "H" Medium: "M" Low: "L" |
| [◆] | Function off | - |
| [O] | Compander on/off | On: 🕠 icon appears |
| [^] | External Speaker on/off | On: □ icon appears |
| [AUX (Orange)] | Function off | - |
| [PTT] | Transmit | - |

| Key | "Func" appears on the sub LCD display | | |
|--|---------------------------------------|---------|--|
| | Function | Display | |
| [0] to [9] and [#], [X] | Function off | - | |

^{*3:} When the mode is selected as P25, this function is enabled.

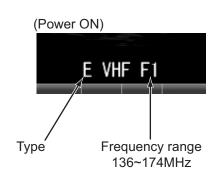
· LED indicator

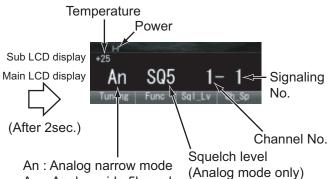
Red LED Lights during transmission. Green LED Lights when there is carrier.

Sub LCD indicator

"Func" Appears at function on.

· LCD display in panel test mode





Aw: Analog wide 5k mode

As: Analog wide 4k mode P1: P25 Phase1 mode P2: P25 Phase2 mode Nn: NXDN narrow mode Nv: NXDN very narrow mode

4.12.3 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.

(1) Test frequency

| СН | RX (MHz) | TX (MHz) |
|------|-----------|-----------|
| 1 | 155.05000 | 155.10000 |
| 2 | 136.05000 | 136.10000 |
| 3 | 173.95000 | 173.90000 |
| 4 | 155.00000 | 155.00000 |
| 5 | 155.20000 | 155.20000 |
| 6 | 155.40000 | 155.40000 |
| 7~16 | - | - |

(2) Test signaling

■Analog mode signaling

| No. | RX | TX |
|-----|--|--|
| 1 | None | None |
| 2 | None | Square Wave |
| 3 | LTR Data | LTR Data |
| 4 | QT:67.0Hz | QT:67.0Hz |
| 5 | QT:151.4Hz | QT:151.4Hz |
| 6 | QT:210.7Hz | QT:210.7Hz |
| 7 | QT:254.1Hz | QT:254.1Hz |
| 8 | DQT:D023N | DQT:D023N |
| 9 | DQT:D754I | DQT:D754I |
| 10 | DTMF Decode (CODE: 159D) | DTMF Encode (CODE: 159D) |
| 11 | None | DTMF Encode (CODE: 9) |
| 12 | 2-tone Decode (A: 304.7Hz, B: 3106.0Hz) | 2-tone Encode (A: 304.7Hz, B: 3106.0Hz) |
| 13 | Single Tone Decode (979.9Hz) | Single Tone Encode (979.9Hz) |

| No. | RX | TX |
|-----|------------|--------------------------------|
| 14 | | Single Tone Encode (1000Hz) |
| 15 | None | MSK PN9 |
| 16 | MSK Decode | MSK Encode |

■P25 Phase1 signaling

| No. | RX | TX |
|-----|--------------------|----------------------------------|
| 1 | NAC 293 | NAC 293 |
| 2 | NAC 023 | NAC 023 |
| 3 | NAC 5EA | NAC 5EA |
| 4 | None | PN9 |
| 5 | NAC 293 | Symbol Rate Pattern |
| 6 | NAC 293 | 1/3 Deviation Pattern |
| 7 | NAC 293 | 0 Continuous Pattern |
| 8 | NAC 293 | Fidelity Pattern |
| 9 | None | FSW+PN9 |
| 10 | None | 1011Hz Tone Test Pattern |
| 11 | Tone Pattern | 1011Hz Tone Test Pattern |
| 12 | Silence Pattern | Silence Pattern |
| 13 | Audio Test Pattern | NAC293 + Audio Test Pat- tern |
| 14 | Vocoder Loop | None |

■P25 Phase2 signaling

| No. | RX | TX |
|-----|-----------------------------------|---|
| 1 | STTP-OB-1031-0 | STTP-IB1031-1+Audio |
| 2 | None | PN9 Phase2 |
| 3 | STTP-OB-1031-1 | Symbol Rate Pattern Phase2 |
| 4 | STTP-OB-1031-1 | 1/3 Deviation Pattern Phase2 |
| 5 | STTP-OB-1031-1 | 0 Continuous Pattern |
| 6 | STTP-OB-1031-1 | 0 Burst Pattern |
| 7 | STTP-OB-1031 | Symmetrical STTP-IB1031-1 |
| 8 | Tone Pattern (Half rate) | STTP-IB1031-1 |
| 9 | Silence Pattern (Half Rate) | STP-IB-1 + Silence Pattern (Half Rate) |
| 10 | Audio Test Pattern (Half Rate) | STTP-IB1031-1 + Audio Test Pattern (Half Rate) |
| 11 | Codec Loop | STTP-IB1031-1 + Codec Loop |
| 12 | Vocoder Loop (Half Rate) | STTP-IB1031-1 + Vocoder Loop (Half Rate) |

■NXDN Mode signaling

| No. | RX | TX |
|-----|-----------------------|---------------------------|
| 1 | RAN1 | RAN1 |
| 2 | None | PN9 |
| 3 | RAN1 | Maximum Deviation Pattern |
| 7 | FSW + PN9 | FSW + PN9 |
| 9 | Tone Pattern (1031Hz) | Tone Pattern (1031Hz) |

RAN: Radio Access Number PN9: Pseudo-Random Pattern No.7, 9 Item: PC test mode only

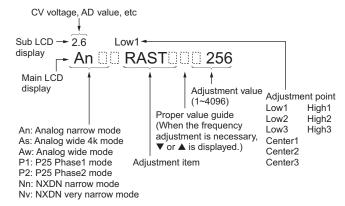
4.13 Panel Tuning Mode

4.13.1 Transceiver tuning (To enter tuning mode)

To enter tuning mode, press the [☐] key while the transceiver is in test mode. Use the [◯] key to write tuning data through tuning modes, and the [►]/[▼] key to adjust tuning requirements (1 to 4096 appears on the LCD).

Use the [♠] key to select the adjustment item through tuning modes. Use the [♠] key to adjust 4, 6 or 8 reference level adjustments, and use the [▶] key to switch between Wide5k/ Wide4k/Narrow.

LCD display in panel tuning mode



4.13.2 Key operation

| Key | Function | | |
|-------|--|-------------------|--|
| | Push | Hold (1 second) | |
| [+] | Volume up | Continuation up | |
| [-] | Volume down | Continuation down | |
| [•] | Adjustment value up | Continuation up | |
| [🕶] | Adjustment value down | Continuation down | |
| [•] | Auto adjustment start | - | |
| [•] | Wide 5k/Wide 4k/Narrow/ P25/NXDN | - | |
| [6] | Shift to panel test mode | - | |
| [4] | To enter 5,9 or 17 reference level adjustments | - | |
| [0] | Writes the adjustment value | - | |

| Key | Fun | ction |
|---|---|--|
| | Push | Hold (1 second) |
| [♠] | Go to next adjustment item | Back to last adjustment item (At the time of 5, 9 or 17 point adjustment: Adjustment point change) |
| [AUX (Orange)] | Output tone pattern change of balance ad- justment (A change is possible only during bal- ance adjustment.) | - |
| [PTT] (MIC) | Transmit | |
| [0] to [9] and [#],[*] (MIC) | - | |

4.13.3 5 or 9 reference level adjustments frequency High Maximum Power, Medium Maximum Power, Low Maximum Power, High Transmit Power Limit, Mid Transmit Power Limit, Low Transmit Power, Limit, High Transmit Power, Medium Transmit Power, Low Transmit Power, Maximum Deviation , P25 High Deviation, P25 H-CPM Deviation, NXDN High Deviation, QT Deviation, DQT Deviation, LTR Deviation, DTMF Deviation, Single Tone Deviation, MSK Deviation, CW ID Deviation, Sensitivity 1, Sensitivity 2, RSSI Reference, Open Squelch, Low RSSI, High RSSI, Tight Squelch

| Tuning point | Display | RX (MHz) | TX (MHz) |
|--------------|----------|-----------|-----------|
| 1 | Low 1 | 136.05000 | 136.10000 |
| 2 | Low 3 | 145.55000 | 145.60000 |
| 3 | Center 2 | 155.05000 | 155.10000 |
| 4 | High 1 | 164.55000 | 164.60000 |
| 5 | High 3 | 173.95000 | 173.90000 |

Receive Assist, Transmit Assist

| Tuning point | Display | RX (MHz) | TX (MHz) |
|--------------|----------|-----------|-----------|
| 1 | Low 1 | 136.05000 | 136.10000 |
| 2 | Low 2 | 140.80000 | 140.85000 |
| 3 | Low 3 | 145.55000 | 145.60000 |
| 4 | Center 1 | 150.30000 | 150.35000 |
| 5 | Center 2 | 155.05000 | 155.10000 |
| 6 | Center 3 | 159.80000 | 159.85000 |
| 7 | High 1 | 164.55000 | 164.60000 |
| 8 | High 2 | 169.30000 | 169.35000 |
| 9 | High 3 | 173.95000 | 173.90000 |

4.13.4 Adjustment item supplement

| 4.13.4 Adjustment i | |
|--|--|
| Adjustment Item | Description |
| Receive Assist | The lock voltage of VCO (Receive) is adjusted. This item must be adjusted before all adjustment items for receiver section are adjusted. |
| Transmit Assist | The lock voltage of VCO (Transmit) is adjusted. This item must be adjusted before all adjustment items for transmitter section are adjusted. |
| Frequency | Frequency is adjusted under receiving condition with SSG. The SSG needs 0.003ppm accuracy so please use a standard oscillator if necessary. This item can be adjusted only in PC Test Mode so that the adjustment value is not changed easily. |
| Ramp Offset | Adjust this item to the optimal Ramp voltage. |
| High Maximum Power | High Maximum Power is adjusted. |
| Medium Maximum Power | Medium Maximum Power is adjusted. |
| Low Maximum Power | Low Maximum Power is adjusted. |
| High Transmit Pow- er Limit | High Transmit Power Limit is adjusted. |
| Medium Transmit Power Limit | Medium Transmit Power Limit is adjusted. |
| Low Transmit Pow- er Limit | Low Transmit Power Limit is adjusted. |
| High Transmit Power | High Transmit Power is adjusted. |
| Medium Transmit Power | Medium Transmit Power is adjusted. |
| Low Transmit Pow- er | Low Transmit Power is adjusted. |
| Balance | The transmit modulation frequency response is adjusted. This item is adjusted so that the deviation of 2kHz becomes the same deviation of 20Hz. This item must be adjusted before all adjustment items for deviations are adjusted. |
| High Deviation (P25/NXDN) | High Deviation of P25/NXDN is adjusted. |
| Maximum Deviation (Analog Wide/Nar- row) | Maximum Deviation of Analog (Wide/Narrow) is adjusted. This item must be adjusted before all adjustment items for tone deviations are adjusted. |
| QT Deviation | QT tone deviation is adjusted. |
| DQT Deviation | DQT tone deviation is adjusted. |
| LTR Deviation | LTR tone deviation is adjusted. |
| | |

| Adjustment Item | Description |
|-----------------------|--|
| DTMF Deviation | DTMF tone deviation is adjusted. |
| Single Tone Deviation | The deviation of Single Tone used in "2-tone" is adjusted. |
| MSK Deviation | MSK tone deviation is adjusted. |
| CWID Deviation | CWID tone deviation is adjusted. CWID is used to inform the others who is transmitting on a 6.25-kHz spacing channel. (In FCC rule, Analog mode or CWID is required for each channel-spacing.) |
| Sensitivity 1 | Band-Pass Filter is adjusted. The performance of Receive Sensitivity is improved. |
| Sensitivity 2 | Band-Pass Filter is adjusted. The performance of Receive Sensitivity is improved. |

| Adjustment Item | Description | | | | |
|-----------------|--|--|--|--|--|
| RSSI Reference | The minimum RSSI level for scan stop is adjusted. | | | | |
| Open Squelch | The squelch level at level "5" is adjusted. | | | | |
| Low RSSI | RSSI display level " " is adjusted. Both "Low RSSI" and "High RSSI" must be | | | | |
| High RSSI | adjusted. (The curve data of RSSI level is applied.) | | | | |
| Tight Squelch | The squelch level at level "9" is adjusted. | | | | |

4.13.5 Adjustment item and Display

| Order | Adjusutment item | Main LCD display | Sub LCD display | Aw (Analog Wide 5k) | As (Analog Wide 4k) | An (Analog Narrow) | P1 (P25 Phase1) | P2 (P25 Phase2) | Nn (NXDN Nar- row) | Nv (NXDN Very Nar- row) | Adjust item Number | | |
|-------|--------------------------------|------------------------|--------------------|---------------------------|---------------------------|--------------------------|-----------------------|-----------------------|-----------------------------|-------------------------------------|--------------------------|--|--|
| | | | | | | Adjus | tment ran | ge | | | | | |
| 1 | Receive Assist | RAST | (CV voltage) | 9 point ADJ | | | | | | | Common | | |
| | | | | 1 ~ 4096 | | | | | | | Section 2 | | |
| 2 | Transmit Assist | TAST | (CV voltage) | 9 point ADJ | | | | | | | Common | | |
| | | | | 1 ~ 4096 | | | | | | | Section 3 | | |
| 3 | RTC Correction | RTC | - | - | | | | | | | Common | | |
| | | | | -2.00~-0.01 | ,0.00 ,+0.01 | ~+2.00 | | | | | Section 5 | | |
| 4 | Ramp Up Offset | RAMPU | (ADC measurement | - | | | | | | | Transmitter | | |
| | | | value) | 1~1024 | | | | | | | Section 1 | | |
| 5 | Ramp Down | RAMPD | (ADC measurement | - | | | | | | | Transmitter | | |
| | Offset | | value) | 1~1024 | | | | | | | Section 2 | | |
| 6 | High Maximum | MAX_H | - | - | - | 5 | - | - | - | - | Transmitter | | |
| | Power | | | 1~256 | | | | | | | Section 3 | | |
| 7 | Medium | MAX_M | - | - | - | 5 | - | - | - | - | Transmitter | | |
| | Maximum Power | | | 1~256 | | | | | | | Section 4 | | |
| 8 | Low Maximum | MAX_L | - | - | - | 5 | - | - | - | - | Transmitter Section 5 | | |
| | Power | | | 1~256 | T | ı | Ţ | 1 | • | 1 | | | |
| 9 | High Transmit Power Limit | H_LMT | - | - | - | 5 | - | - | - | - | Transmitter Section 6 | | |
| | | | | 1~256 | 1 | 1 | Т | 1 | T | ı | | | |
| 10 | Medium Transmit Power Limit | M_LMT | - | - | - | 5 | - | - | - | - | Transmitter Section 7 | | |
| | | | | 1~256 | ı | 1_ | 1 | 1 | 1 | ı | | | |
| 11 | Low Transmit Power Limit | L_LMT | - | - | - | 5 | - | - | - | - | Transmitter Section 8 | | |
| 10 | LP to Taxable 9 | LL DIA/D | | 1~256 | 1 | 1- | Τ | 1 | T | I | | | |
| 12 | High Transmit Power | H_PWR | - | 1 1004 | - | 5 | <u> -</u> | - | - | - | Transmitter Section 9 | | |
| 13 | | M_PWR | | 1~1024 | | | | | | Transmitter | | | |
| 13 | Power | INI_PVVR | - | 1~1024 | - | 5 | <u> </u> | - | - | _ | Section 10 | | |
| | | | | 1~1024 | | | | | | | | | |

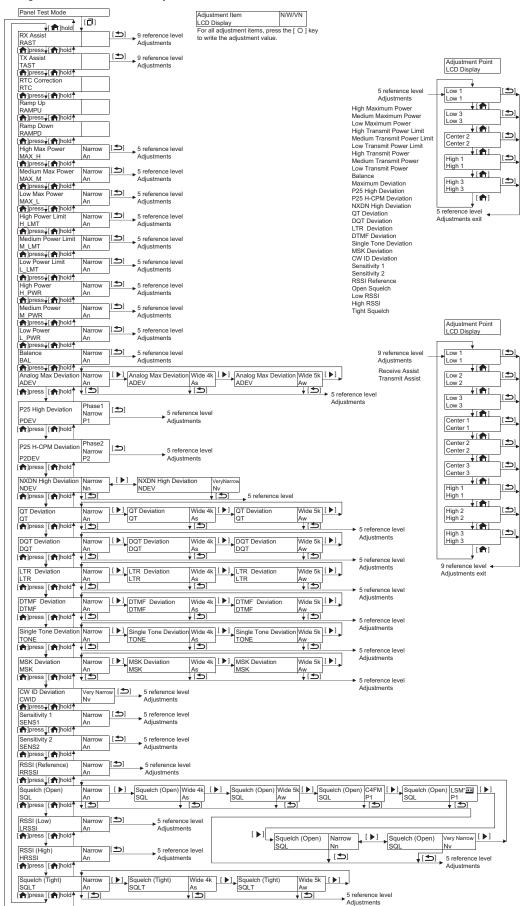
| Order | Adjusutment item | Main LCD display | Sub LCD display | Aw (Analog Wide 5k) | As (Analog Wide 4k) | An (Analog Narrow) | P1 (P25 Phase1) | P2 (P25 Phase2) | Nn (NXDN Nar- row) | Nv (NXDN Very Nar- row) | Adjust item Number |
|-------|------------------------|------------------------|----------------------------|---------------------------|---------------------------|--------------------------|-----------------------|-----------------------|-----------------------------|-------------------------------------|---------------------------|
| | | | | | | Adjus | tment ran | ge | | | |
| 14 | Low Transmit Power | L_PWR | - | - 1~1024 | - | 5 | - | - | - | - | Transmitter Section 11 |
| 15 | Balance | BAL | (Encode frequency) | - | - | 5 | - | - | - | - | Transmitter Section 12 |
| | | | | 1~1024 | Γ | 1 | | 1 | 1 | 1 | |
| 16 | Maximum Deviation | ADEV | - | 5 1~1024 | 5 | 5 | - | - | - | - | Transmitter Section 13 |
| 17 | P25 High Deviation | PDEV | - | - | - | - | 5 | - | - | - | Transmitter Section 14 |
| | | | | 1~1024 | T. | 1 | 1 | 1_ | 1 | 1 | |
| 18 | P25 H-CPM Deviation | P2DEV | (RSSI measurement value) | 1~1024 | - | - | - | 5 | - | - | Transmitter Section 15 |
| 19 | NXDN High | NDEV | - | - | - | - | - | - | 5 | 5 | Transmitter |
| | Deviation | | | 1~1024 | | | l | ı | | | Section 16 |
| 20 | QT Deviation | QT | - | 5 | 5 | 5 | - | - | - | - | Transmitter |
| | | | | 1~1024 | l | ı | | | | ı | Section 17 |
| 21 | DQT Deviation | DQT | - | 5 1~1024 | 5 | 5 | - | - | - | - | Transmitter Section 18 |
| 22 | LTD Deviation | LTR | | | 5 | 5 | 1 | | 1 | 1 | Transmitter |
| 22 | LTR Deviation | LIR | - | 5 1~1024 | 5 | 5 | - | - | - | - | Transmitter Section 19 |
| 23 | DTMF Deviation | DTMF | - | 5 1~1024 | 5 | 5 | - | - | - | - | Transmitter Section 20 |
| 24 | Single Tone | TONE | _ | 5 | 5 | 5 | | I_ | | | Transmitter |
| 24 | Deviation | TONE | - | 1~1024 | 3 |]3 | - | - | - | - | Section 21 |
| 25 | MSK Deviation | MSK | - | 5 | 5 | 5 | - | - | - | - | Transmitter |
| | | | | 1~1024 | | • | • | • | • | • | Section 22 |
| 26 | CW ID Deviation | CWID | - | - | - | 5 | - | - | - | - | Transmitter |
| | | | | 1~1024 | | • | • | • | • | • | Section 23 |
| 27 | Sensitivity 1 | SENS1 | (RSSI measurement | - | - | 5 | - | - | - | - | Receiver |
| | | | value) | 1~256 | | • | • | • | • | • | Section 3 |
| 28 | Sensitivity 2 | SENS2 | (RSSI measurement value) | - 1~256 | - | 5 | - | - | - | - | Receiver Section 2 |
| 29 | RSSI Reference | RRSSI | (RSSI measurement | | | 5 | | 1 | | 1 | Receiver |
| 29 | RSSI Releience | KKOSI | value) | 1~256 | <u>-</u> | ່ວ | - | - | - | - | Section 4 |
| 30 | Open Squelch | SQL | (ASQDET measurement value) | 5 1~256 | 5 | 5 | 5 *1 | - | 5 | 5 | Receiver Section 5 |
| 31 | Low RSSI | LRSSI | (RSSI measurement value) | - | - | 5 | - | - | - | - | Receiver |
| | | | , | 1~256 | ı | 1 | 1 | 1 | 1 | 1 | Section 6 |
| 32 | High RSSI | HRSSI | (RSSI measurement value) | - 1~256 | - | 5 | - | - | - | - | Receiver Section 7 |
| 33 | Tight Squelch | SQLT | (ASQDET measurement value) | 5 1~256 | 5 | 5 | - | - | - | - | Receiver Section 8 |

^{*1:} When P25 Phase1 is selected, in C4FM and LSM, there is an adjustment item, respectively.

4.13.6 Panel tuning mode flow chart

Note:

* In this Panel tuning mode flow chart, the Adjustment item name is modified.

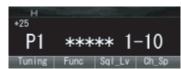


4.14 BER (Bit Error Rate) Measurement

- (1) The Panel Test Mode is used to measure the BER (Refer "4.2.1 Test mode operation features").
- (2) Select "10" (P25 Phase1), "7" (P25 Phase2) and "7" (NXDN Mode) for test signaling (Refer to "4.2.3 Frequency and Signaling" (2) Test signaling).

Note:

- "7" (NXDN Mode) can be selected only by PC test mode.
- (3) Select a bandwidth (Narrow/Very Narrow) by pressing the [►] key. When P25 Phase1 or P25 Phase2 is selected, it is not necessary to select a bandwidth.
- (4) Select a test frequency ("4.2.3 Frequency and Signaling"(2) Test signaling Test frequency).

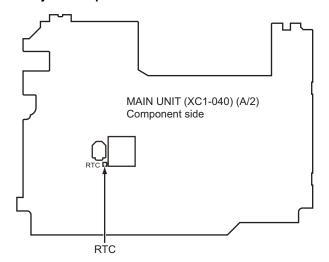


- (5) Measure the BER (Bit Error Rate) using the digital radio tester.
 - Enter a standard input signal into the transceiver as a standard tone test pattern for P25, FSW+PN9 for NXDN.
- (6) Adjust the input signal level to achieve the standard bit error rate (BER).

(For example, if the BER is 0.86%, the display shows "0.86".)



4.15 Adjustment points

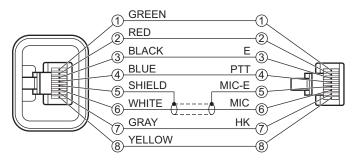


4.16 Test Equipment Required for Alignment

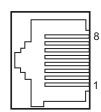
| Test Equipment | Major Specifications | | | | | |
|---------------------------------|--|---|--|--|--|--|
| Standard Signal Generator (SSG) | Frequency Range 100 to 900MHz Modulation Frequency modulation and external modulation Output -127dBm/0.1uV to greater than -20dBm/22.4mV When performing the Frequency adjustment, the following accuracy is necessary • 0.003ppm | | | | | |
| | 1 | r adjustments, if necessary. | | | | |
| 2. Power Meter | Input Impedance 50Ω Operation Frequency 100 to 900MHz Measurement Capability Vicinity of 100W | | | | | |
| 3. Deviation Meter | Frequency Range | 100 to 900MHz | | | | |
| 4. Digital Volt Meter (DVM) | Measuring Range Input Impedance | 10mV to 20V DC High input impedance for minimum circuit loading | | | | |
| 5. Oscilloscope | | DC through 30MHz | | | | |
| 6. Frequency Counter | Frequency Range Frequency Stability | 10Hz to 1000MHz 0.2ppm or less | | | | |
| | | frequency of the internal clock 32766.00Hz~32770.00Hz for 0.01Hz is better for accuracy adjustment. | | | | |
| 7. Ammeter | | 20A or more | | | | |
| 8. AF Volt Meter (AF VM) | Frequency Range Voltage Range | 50Hz to 10kHz 1mV to 10V | | | | |
| 9. Audio Generator (AG) | Frequency Range Output | 50Hz to 5kHz or more 0 to 1V | | | | |
| 10. Distortion Meter | Capability Input Level | 3% or less at 1kHz 50mV to 10Vrms | | | | |
| 11. Spectrum Analyzer | Measuring Range | DC to 1GHz or more | | | | |
| 12. 4Ω Dummy Load | | Approx. 4Ω, 10W | | | | |
| 13. Regulated Power Supply | | 13.6V, approx. 20A (adjustable from 9V to 17V) Useful if ammeter equipped | | | | |

^{*}The test equipment which is not used for adjustment is contained in this table.

■Test cable for microphone input (E30-3360-28)



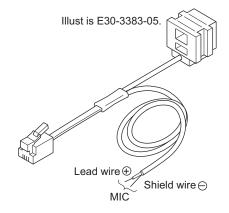
■MIC connector (Front panel view)



- 1 : BLC 2 : +B
- 3 : GND
- 4 : PTT/TXD (PC serial data from radio)
- 5 : MICE
- 6 : MIC
- 7 : HOOK/RXD (PC serial data to radio)
- 8 : DM

Tuning cable (E30-3383-05 or E30-7754-05)

Adapter cable (E30-3383-05 or E30-7754-05) is required for injecting an audio if PC tuning is used. See "PC Mode" section for the connection.



4.17 Radio check Section

| Item | | Meas | | Adjus | Specifica- | | | | |
|------------------------------|-------------------------------------|--|---------------------------|-------|------------|------|-------|---|----------------------------------|
| | Panel test mode | PC test mode | Test- equipment | Unit | Terminal | Unit | Parts | Method | tions /Remarks |
| 1. Frequency check | 1)CH-Sig: 1-1 PTT: ON | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | f. counter | Panel | ANT | | | Check an internal temperature of radio from 20°C to 33°C. | ±0.25ppm ±38.7Hz @155.1MHz |
| 2. High power check | 1)CH-Sig: 1-1 PTT: ON TA: OFF | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 21W~29W 9A or less |
| | 2)CH-Sig: 2-1 PTT: ON TA: OFF | 2)Test Channel Channel: 2 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 21W~29W 9A or less |
| | 3)CH-Sig: 3-1 PTT: ON TA: OFF | 3)Test Channel Channel: 3 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 21W~29W 9A or less |

| Item | | Measurement | | | | Adjus | Specifica- | | |
|-----------------------------------|---|--|---|-------|----------------------------------|-------|------------|--|-------------------------|
| | Panel test mode | PC test mode | Test- equipment | Unit | Terminal | Unit | Parts | Method | tions /Remarks |
| 3. Low power check | 1)CH-Sig: 1-1 PTT: ON TA: OFF | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | | Panel | ANT | | | Check | 3.5W~6.5W 7A or less |
| | 2)CH-Sig: 2-1 PTT: ON TA: OFF | 2)Test Channel Channel: 2 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 3.5W~6.5W 7A or less |
| | 3)CH-Sig: 3-1 PTT: ON TA: OFF | 3)Test Channel Channel: 3 Test Signaling Mode: Analog Signaling: 1 PTT: Press [Transmit] button. | Power meter Ammeter | Panel | ANT | | | Check | 3.5W~6.5W 7A or less |
| 4. MIC sensitivity check | 1)CH-Sig: 1-1 AG: 1kHz PTT: ON | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 AG: 1kHz PTT: Press [Transmit] button. | scope AG | Panel | ANT MIC jack | | | Adjust AG input to get a standard MOD. | 5mV ±1mV |
| 5. Sensitivity check | 1)CH-Sig: 1-1 SSG output Wide 5k: -117dBm (0.32µV) (MOD: 1kHz/±3kHz) Wide 4k: -117dBm (0.32µV) (MOD: 1kHz/ ±2.4kHz) Narrow: -117dBm (0.32µV) (MOD: 1tHz/ ±2.4kHz) | 1)Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 SSG output Wide 5k: -117dBm (0.32µV) (MOD: 1kHz/±3kHz) Wide 4k: -117dBm (0.32µV) (MOD: 1kHz/±2.4kHz) Narrow: -117dBm (0.32µV) (MOD: 1kHz/±1.5kHz) | SSG AF VM Oscilloscope Distortion meter 4Ω Dummy load | Panel | ANT Ext. SP connec- tor | | | Check | 12dB SINAD or more |

4.18 Common Section

| Item | С | ondition | Mea | surem | ent | | A | Adjustment | Specifications |
|--------------------------|---|--------------|-------------------------|-------|---------------|-------|-----------------|---|---|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | /Remarks |
| 1. Setting | [Wide 4k] MC | | | | | | | | |
| 2. Receive Assist | Adjust:[****] | | | | | Panel | tuning mode] | ton to store the adjust- ment value after the automatic adjustment has finished. [Manual Adjustment] [V] indicator on the PC window shows VCO lock voltage. Change the ad- justment value to get VCO lock voltage within the limit of the specified voltage. Note: | |
| 3. Transmit Assist | Adjust:[****] 2) Adj item: [Low1 TAST]→ [Low2 TAST]→ [Low3 TAST]→ [Center1 TAST]→ [Center2 TAST]→ [Center3 TAST]→ [High1 TAST]→ [High2 TAST]→ [High3 TAST] Adjust:[****] PTT: ON Press [O] key | | | | | Panel | tuning mode] | ton to store the adjust- ment value after the automatic adjustment has finished. [Manual Adjustment] [V] indicator on the PC window shows VCO lock voltage. Change the ad- justment value to get VCO lock voltage within | ment] Press [Apply All] button to store the adjustment value after all adjustment point have been adjusted. Note: |

| Item | С | ondition | Mea | surem | ent | | P | Adjustment | Specifications |
|------------------------------|---|--|---------------------------|-------|--------------------------|-------|--|--|--|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | /Remarks |
| 4. Frequency | ment can be performed only in PC test mode. | 1) Adj item: [Frequency] SSG output: -20dBm (22.4mV) (CW (without modulation)) Caution: Perform the frequency adjustment under the following conditions. • Temperature range of +20°C to +33°C (+68.0°F to +91.4°F). (The temperature is displayed on the Frequency adjustment screen of the KPG-D1 and the LCD of the transceiver.) • Use an accuracy of 0.003ppm for the SSG. (Use a standard oscillator if necessary.) | SSG | Panel | | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | Press [Start] button of "Auto Tuning". | in 0±10 digits. The value of "IF20" will become around "0" |
| 5. RTC Corre- citon | 1) Adj item: [RTC] Adjust:[****] Press [O] key to store the adjustment value. | 1) Adj item: [RTC Correction] Data: {****} Press [Apply] button to store the adjustment value. | Fre- quency Counter | Panel | TEST POINT (CN715) | | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | the adjustment value. [PC test mode] | Remaks: Change the adjustment value so that the frequency currently displayed on "Crystal Oscillation Frequency" on the PC window and the frequency currently displayed on the frequency counter are in agreement. |

4.19 Transmitter Section

| Item | Con | dition | Mea | surem | ent | | | djustment | Specifica- |
|-------------------------------------|---|---|---------------------------|-------|---------------|-------|---|--|---|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 1. Ramp up Offset | 1) Adj item: [RAMPU] Adjust:[****] PTT : ON Press [O] key to store the adjust- ment value. | 1) Adj item: [Ramp Up Offset] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | tuning mode] | [PC test mode] [Automatic Adjustment] 1) Press [Tune Rump Offset] button. 2) Press [Apply All] button to store the adjustment value after the automatic adjustment has finished. [Manual Adjustment] 1) Set the adjustment value to "1". 2) Increase the adjustment value slowly while monitoring the offset monitor value. 3) Set the adjustment value when the offset monitor value exceed "50". | |
| 2. Ramp down Offset | 1) Adj item: [RAMPD] Adjust:[****] PTT : ON Press [O] key to store the adjust- ment value. | 1) Adj item: [Ramp Down Offset] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [♣], [♥] [PC test mode] [←], [→] | [PC test mode] [Automatic Adjustment] 1) Press [Tune Rump Offset] button. 2) Press [Apply All] button to store the adjustment value after the automatic adjustment has finished. [Manual Adjustment] 1) Set the adjustment value to "1". 2) Increase the adjustment value slowly while monitoring the offset monitor value. 3) Set the adjustment value when the offset monitor value exceed "20". | |
| 3. High Maxi- mum Power | 1) Adj item: [H_MAX] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [High Maximum Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | 55W | ±1W 15A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |

| Item | Con | dition | Mea | surem | ent | | A | djustment | Specifica- |
|---|--|---|---------------------------|-------|---------------|-------|---|--|--|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 4. Medium Maxi- mum power | 1) Adj item: [M_MAX] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Medium Maximum Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | 55W | ±1W 15A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 5. Low Maxi- mum power | 1) Adj item: [L_MAX] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Low Maximum Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | 55W | ±1W 15A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 6. High Trans- mit Power Limit | 1) Adj item: [H_LMT] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] PTT : OFF Press [O] key to store the adjustment value. | 1) Adj item: [High Transmit Power Limit] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 256 (Fixed) | |
| 7. Medium Trans- mit Power Limit | 1) Adj item: [M_LMT] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] PTT : OFF Press [O] key to store the adjustment value. | 1) Adj item: [Medium Transmit Power Limit] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 256 (Fixed) | |

| Item | Con | dition | Mea | surem | ent | | <u> </u> | djustment | Specifica- |
|--|--|--|---------------------------|-------|---------------|-------|---|--|--|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 8. Low Trans- mit Power Limit | 1) Adj item: [L_LMT] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] PTT: OFF Press [O] key to store the adjustment value. | 1) Adj item: [Low Transmit Power Limit] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Apply] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [♣], [▼] [PC test mode] [←], [→] | Write the value as followings. 256 (Fixed) | |
| 9. High Trans- mit Power | 1) Adj item: [H_PWR] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [High Transmit Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | 25W Note: High Transmit Power Is the purpose of the custom power (adjustment). This Power must be lower than High transmit power. | ±1W 9A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 10. Medium Trans- mit Power | 1) Adj item: [M_PWR] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Medium Transmit Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Note: In the production, this Medium transmit power is adjusted at 5W. And E type can't be adjusted over 5W. (If you adjust over 5W, choose High Transmit Power mode.) | ±0.5W 7A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| 11. Low Trans- mit Power | 1) Adj item: [L_PWR] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [Low Transmit Power] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Power meter Ammeter | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | 5W | ±0.5W 7A or less [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |

| Item | Con | dition | Mea | surem | ent | | - | Adjustment | Specifica- |
|---|---|--|--|-------|---------------|-------|---|---|--|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 12. Balance *1 | 1) Adj item: [Balance] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Balance] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscillo- scope | Panel | | | tuning mode] [♠], [♥] [PC test mode] [←], [→] | The Deviation of 20Hz frequency is fixed. Change the 2kHz adjustment value to become the same deviation of 20Hz within the specified range. (a supplementary explanation: Another way to adjust is ready. (Same as TK-5710, the old model of NX-5700). Press [AUX(Orange)] key to switch the tone to 100Hz square wave. Then, make the demodulation waveform shown on oscilloscope into square shape.) | 2kHz Tone deviation is within ± 1.0% of 20Hz tone deviation. [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| | | cessary Deviation adju common with the adjus | | | | | | de" table. | |
| 13. Maxi- mum Devia- tion *2 [Analog Wide 5k] | 1) Adj item: [ADEV] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Maxmum Deviation (Analog Wide 5k)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write fixed value "491" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 4150Hz and 4250Hz. Deviation meter LPF: 15kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |

| Item | Con | dition | Mea | surem | ent | | - | Adjustment | Specifica- |
|-----------------------------------|--|--|--|-------|---------------|-------|---|---|---|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| [Analog Wide 4k] | 1) Adj item: [As ADEV] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Maxmum Deviation (Analog Wide 4k)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write fixed value "491" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 3310Hz and 3410Hz. Deviation meter LPF: 15kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| [Analog Narrow] | 1) Adj item: [An ADEV] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Maxmum Deviation (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | Write fixed value "491" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 2050Hz and 2150Hz. Deviation meter LPF: 15kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | 2050~2150Hz [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| | | L cessary Deviation adju eviation (Analog), it is o | | | | | | de" table. | |
| 14. P25 High Devia- tion | 1) Adj item: [P1 PDEV] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [P25 High Deviation] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | Write fixed value "493" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 2771Hz and 2883Hz. Deviation meter LPF: 3kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |

| Item | Con | dition | Mea | surem | ent | | Δ | Adjustment | Specifica- |
|---|---|--|--|-------|---------------|-------|---|--|---|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 15. P25 H-CPM Devia- tion | 1) Adj item: [P2 P2DEV] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to | 1) Adj item: [P25 H-CPM Deviation] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | tuning mode] | Write fixed value "476" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 3090Hz and 3215Hz. Deviation meter LPF: 3kHz HPF: OFF [Panel tuning mode] PTT: ON | 3090~3215Hz [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |
| | store the adjust- ment value. | button to store the adjustment value. | | | | | | [PC test mode] PTT: Press [Transmit] button | |
| 16. NXDN High Devia- tion [NXDN Narrow] | 1) Adj item: [Nn NDEV] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [NXDN High Deviation (NXDN Narrow] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | | Write fixed value "492" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 2995Hz and 3117Hz. Deviation meter LPF: 3kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | mode] Press [Apply All] button to |
| [NXDN Very Narrow] | 1) Adj item: [Nv NDEV] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [NXDN High Deviation (NXDN Very Narrow] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [♣], [▼] [PC test mode] [←], [→] | Write fixed value "491" for each adjustment point. (The value is written below.) Transmit at each adjustment point and check that the deviation is between 1311Hz and 1363Hz. Deviation meter LPF: 3kHz HPF: OFF [Panel tuning mode] PTT: ON [PC test mode] PTT: Press [Transmit] button | I311~1363Hz [PC test mode] Press [Apply All] button to store the adjustment value after all adjustment points have been adjusted. |

| Item | Con | dition | Mea | surem | ent | | Δ. | Specifica- | |
|---|---|---|--|-------|---------------|-------|---|------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 17. QT Devia- tion *3 [Analog Wide 5k] | 1) Adj item: [Aw QT] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [QT Deviation (Analog Wide 5k)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 528 | 0.75kHz±0.05 kHz |
| [Analog Wide 4k] | 1) Adj item: [As QT] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [QT Deviation (Analog Wide 4k)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- Io- scope | Panel | ANT | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | Write the value as followings. 528 | 0.60kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An QT] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [QT Deviation (Analog Narrow)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | Write the value as followings. 528 | 0.35kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | A | Adjustment | Specifica- |
|--|--|--|--|-------|---------------|-------|---|------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 18. DQT Devia- tion *3 [Analog Wide 5k] | 1) Adj item: [Aw DQT] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [DQT Deviation (Analog Wide 5k)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 433 | 0.75kHz±0.05 kHz |
| [Analog Wide 4k] | 1) Adj item: [As DQT] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [DQT Deviation (Analog Wide 4k)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 433 | 0.60kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An DQT] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [DQT Deviation (Analog Narrow)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | | Write the value as followings. 433 | 0.35kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | | Adjustment | Specifica- |
|--|---|--|--|-------|---------------|-------|---|------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 19. LTR Devia- tion *3 [Analog Wide 5k] | 1) Adj item: [Aw LTR] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjust- | 1) Adj item: [LTR Deviation (Analog Wide 5k)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 480 | 1.00kHz±0.05 kHz |
| [Analog Wide 4k] | ment value. 1) Adj item: [As LTR] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | adjustment value. 1) Adj item: [LTR Deviation (Analog Wide 4k)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscillo- scope | Panel | ANT | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | Write the value as followings. 480 | 0.90kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An LTR] Adjust:[****] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [LTR Deviation (Analog Narrow)] Deviation meter LPF: 3kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- Io- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 480 | 0.75kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | A | Adjustment | Specifica- |
|--|--|---|--|-------|---------------|-------|---|-------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 20. DTMF Devia- tion *3 [Analog Wide 5k] | 1) Adj item: [Aw DTMF] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [DTMF Deviation (Analog Wide 5k)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [OK] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 548 | 2.50kHz±0.05 kHz |
| [Analog Wide 4k] | 1) Adj item: [As DTMF] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [DTMF Deviation (Analog Wide 4k)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [OK] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 548 | 2.00kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An DTMF] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [DTMF Deviation (Analog Narrow)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | | Write the value as followings. 548 | 1.25kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | <u> </u> | Adjustment | Specifica- |
|--|--|---|--|-------|---------------|-------|---|------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 21. Sin- gle Tone Devia- tion *3 [Analog Wide 5k] | 1) Adj item: [Aw TONE] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Single Tone Deviation (Analog Wide 5k)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 517 | 3.00kHz±0.05 kHz |
| [Analog Wide 4k] | 1) Adj item: [As TONE] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [Single Tone Deviation (Analog Wide 4k)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 517 | 2.40kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An TONE] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT:ON Press [O] key to store the adjustment value. | 1) Adj item: [Single Tone Deviation (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- Io- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 517 | 1.50kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | A | Adjustment | Specifica- |
|--|---|---|--|-------|---------------|-------|---|------------------------------------|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 22. MSK Devia- tion *3 [Analog Wide 5k] | 1) Adj item: [Aw MSK] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [MSK Deviation (Analog Wide 5k)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 504 | 3.00kHz±0.05 kHz |
| [Analog Wide 4k] | 1) Adj item: [As MSK] Adjust:[****] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [MSK Deviation (Analog Wide 4k)] Deviation meter LPF: 15kHz HPF: OFF 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. 504 | 2.40kHz±0.05 kHz |
| [Analog Narrow] | 1) Adj item: [An MSK] Adjust:[****] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[****] PTT: ON Press [O] key to store the adjustment value. | 1) Adj item: [MSK Deviation (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Press [Transmit] button. Press [Apply All] button to store the adjustment value. | Deviation meter Oscil- lo- scope | Panel | ANT | Panel | 1 = | Write the value as followings. 504 | 1.50kHz±0.05 kHz |

| Item | Con | dition | Mea | surem | ent | | Α | Adjustment | Specifica- |
|---------|------------------------|-------------------------|-------------------------|----------|---------------|--------|-----------------|-------------------------|-------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | tions /Remarks |
| 23. | 1) Adj item: | 1) Adj item: | Devia- | Panel | ANT | Panel | [Panel | Write the value as fol- | 1.10kHz±0.10 |
| CWID | [An CWID] | [CWID Deviation | tion | | | | tuning | lowings. | kHz |
| Devia- | Adjust:[****] | (Analog Narrow)] | meter | | | | mode] | | |
| tion *3 | Deviation meter | Deviation meter | Oscil- | | | | [▲], | 510 | |
| | LPF: 15kHz | LPF: 15kHz | lo- | | | | [▼] | | |
| [Analog | HPF: OFF | HPF: OFF | scope | | | | [PC | | |
| Narrow] | 2) Adj item: | 2) Adj item: | | | | | test | | |
| | [Low1]→ | [Low1]→ | | | | | mode] | | |
| | [Low3]→ | [Low3]→ | | | | | [←], | | |
| | [Center2]→ | [Center2] \rightarrow | | | | | $[\rightarrow]$ | | |
| | [High1]→ | [High1]→ | | | | | | | |
| | [High3] | [High3] | | | | | | | |
| | Adjust:[****] | Press [Transmit] | | | | | | | |
| | PTT : ON | button. | | | | | | | |
| | Press [O] key to | Press [Apply All] | | | | | | | |
| | store the adjust- | button to store the | | | | | | | |
| | ment value. | adjustment value. | | | | | | | |
| *3: Re | fer to the "4.19.1 Ned | essary Deviation adjus | stment ite | em for e | each sic | naling | and mod | le" table. | |

4.19.1 Necessary Deviation adjustment item for each signaling and mode

The following shows the necessary adjustment items for each signaling deviation. Please read the following table like the following example. In the case of the signaling "QT (Analog Wide 5k)", this signaling is composed of three elements [Balance, Maximum Deviation (Analog Wide 5k) and QT Deviation (Analog Wide 5k)]. Please adjust Balance and Maximum Deviation (Analog Wide 5k) before adjusting QT Deviation (Analog Wide 5k).

| Mode | Signaling | | Necessary adjus | stment and order | |
|--------|------------------------|--|---|---|--|
| | | Wide | Wide 4k | Narrow | Very Narrow |
| Analog | Audio | Balance adjust Maximum Deviation [Analog Wide 5k] | Balance adjust Maximum Deviation [Analog Wide 4k] | Balance adjust Maximum Deviation [Analog Narrow] | - |
| | QT | Balance adjust Maximum Deviation [Analog Wide 5k] QT Deviation [Analog Wide 5k] | 1. Balance adjust 2. Maximum Deviation [Analog Wide 4k] 3. QT Deviation [Analog Wide 4k] | 1. Balance adjust 2. Maximum Deviation [Analog Narrow] 3. QT Deviation [Analog Narrow] | - |
| | DQT | Balance adjust Maximum Deviation [Analog Wide 5k] DQT Deviation [Analog Wide 5k] | 1. Balance adjust 2. Maximum Deviation [Analog Wide 4k] 3. DQT Deviation [Analog Wide 4k] | 1. Balance adjust 2. Maximum Deviation [Analog Narrow] 3. DQT Deviation [Analog Narrow] | - |
| | LTR | Balance adjust Maximum Deviation [Analog Wide 5k] LTR Deviation [Analog Wide 5k] | 1. Balance adjust 2. Maximum Deviation [Analog Wide 4k] 3. LTR Deviation [Analog Wide 4k] | Balance adjust Maximum Deviation [Analog Narrow] LTR Deviation [Analog Narrow] | - |
| | DTMF | Balance adjust Maximum Deviation [Analog Wide 5k] DTMF Deviation [Analog Wide 5k] | 1. Balance adjust 2. Maximum Deviation [Analog Wide 4k] 3. DTMF Deviation [Analog Wide 4k] | Balance adjust Maximum Deviation [Analog Narrow] DTMF Deviation [Analog Narrow] | - |
| | 2TONE | Balance adjust Maximum Deviation [Analog Wide 5k] Single Tone Deviation [Analog Wide 5k] | 1. Balance adjust 2. Maximum Deviation [Analog Wide 4k] 3. Single Tone Deviation [Analog Wide 4k] | 1. Balance adjust 2. Maximum Deviation [Analog Narrow] 3. Single Tone Deviation [Analog Narrow] | - |
| | MSK (Fleet sync) | Balance adjust Maximum Deviation [Analog Wide 5k] MSK Deviation [Analog Wide 5k] | 1. Balance adjust 2. Maximum Deviation [Analog Wide 4k] 3. MSK Deviation [Analog Wide 4k] | Balance adjust Maximum Deviation [Analog Narrow] MSK Deviation [Analog Narrow] | - |
| P25 | | - | | Balance adjust P25 High Deviation P25 High Deviation (H-CPM) | - |
| NXDN | Audio | - | | Balance adjust Maximum Deviation [NXDN Narrow] | Balance adjust Maximum Deviation [NXDN Very Narrow] |
| | CWID | - | | - | 1. Balance adjust 2. Maximum Deviation [NXDN Very Narrow] 3. CWID Deviation [NXDN Very Narrow] |

[•] Balance is common with all the above deviation adjustments. If Balance (Transmitter Section 12) has already adjusted, please skip Step1 and adjust from Step2.

Maximum Deviation (Analog Wide 5k/Wide 4k/Narrow) is common with all the analog signaling deviations. If Balance and Maximum Deviation (Analog Wide 5k/Wide 4k/Narrow) (Transmitter Section 13) have already adjusted, please skip Step2 and adjust from Step3.

4.20 Receiver Section

| Item | Con | dition | Mea | surem | ent | | | Adjustment | Specifi- |
|---------------------------|---|---|--|-------|-------------------------------------|-------|---|--|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | cations /Remarks |
| 1. AF level setting | [Panel test mode] 1) CH-Sig: 1-1 SSG output: -47dBm (1mV) (MOD: 1kHz/ ±1.5kHz) | 1) Test Channel Channel: 1 Test Signaling Mode: Analog Signaling: 1 SSG output: -47dBm (1mV) (MOD:1kHz/ ±1.5kHz) | SSG DVM AF VM Dummy load | Panel | ANT Ext. SP con- nector | Panel | $ [Panel \\ tuning \\ mode] \\ [+], [-] \\ [PC \\ test \\ mode] \\ [\leftarrow], \\ [\rightarrow] $ | Volume Up/Down knob to obtain 1.41V AF output. (0.5W @ 4Ω load) | 1.41V ±0.1V |
| 2. Sensitivity 2 | 1) Adj item: [An SENS2] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] Adjust:[***] Press [O] key to store the adjustment value. | 1) Adj item: [Sensitivity 2] 2) Adj item: [Low1], [Low3], [Center2], [High1], [High3] Press [Apply All] button to store the adjustment value. | SSG AF VM Dummy load | Panel | ANT Ext. SP con- nector | Panel | [Panel tuning mode] [▲], [▼] [PC test mode] [←], [→] | Write the value as followings. [Low1]: 80 (Fixed) [Low3]: 85 (Fixed)) [Center2]: 110 (Fixed) [High1]: 135 (Fixed) [High3]: 160 (Fixed) | |
| 3. Sensitivity 1 | 1) Adj item: [An SENS1] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -100dBm (2.2µV) (MOD: 1kHz/ ±1.5kHz) Adjust:[***] Press [O] key to store the adjustment value. | 1) Adj item: [Sensitivity 1] 2) Adj item: [Low1], [Low3], [Center2], [High1], [High3] SSG output: -100dBm (2.2µV) (MOD: 1kHz/ ±1.5kHz) Press [Apply All] button to store the adjustment value. | SSG AF VM Dummy load | Panel | ANT Ext. SP con- nector | Panel | [Panel tuning mode] [♠], [♥] [PC test mode] [←], [→] | 1) The sub LCD display shows the RSSI value. Change the adjustment value to get maximum RSSI value. 2) Store the adjustment value. Note: In the PC test mode, you can also perform the Automatic adjustment. When the Automatic adjustment is performed in the PC test mode, a RSSI value is updated by press [Apply All] button. Press [Apply All] button after the adjustment and check the state of the newest RSSI. | |
| 4. RSSI refer- ence | 1) Adj item: [An RRSSI] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level -3dB (MOD: 1kHz/±1.5kHz) | 1) Adj item: [RSSI Reference (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level -3dB (MOD: 1kHz/±1.5kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |

| Item | Con | dition | Mea | surem | ent | | | Adjustment | Specifi- |
|---|---|--|--|-------|-------------------------------------|-------|-------|--|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | cations /Remarks |
| 5. Open Squelch [Analog Wide 5k] | 1) Adj item: [Aw SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD:1kHz/ ±3kHz) | 1) Adj item: [Open Squelch (Analog Wide 5k)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level -3dB (MOD: 1kHz/±3kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [Analog Wide 4k] | 1) Adj item: [As SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD:1kHz/ ±2.4kHz) | 1) Adj item: [Open Squelch (Analog Wide 4k)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level -3dB (MOD: 1kHz/ ±2.4kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [Analog Narrow] | 1) Adj item: [An SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD:1kHz/ ±1.5kHz) | 1) Adj item: [Open Squelch (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level -3dB (MOD: 1kHz/ ±1.5kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |

| Item | Con | dition | Mea | surem | ent | | | Adjustment | Specifi- |
|------------------|--|--|--|-------|-------------------------------------|-------|-------|--|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | cations /Remarks |
| [P25 (C4FM)] | 1) Adj item: [P1 SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -1dB (MOD: 1kHz/ ±2.2kHz) | 1) Adj item: [Open Squelch (P25 C4FM)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -1dB (MOD: 1kHz/ ±2.2kHz) | tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [P25 (LSM)] | 1) Adj item: [P1 SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD: 1kHz/ ±3.3kHz) | 1) Adj item: [Open Squelch (P25 LSM)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD: 1kHz/ ±3.3kHz) | tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [NXDN Narrow] | 1) Adj item: [Nn SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -1dB (MOD: 400Hz/ ±2.5kHz) | 1) Adj item: [Open Squelch (NXDN Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -1dB (MOD: 400Hz/ ±2.5kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |

| Item | Con | dition | Mea | surem | ent | | | Adjustment | Specifi- |
|--|--|---|--|-------|-------------------------------------|-------|-------|--|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- | Unit | Ter- minal | Unit | Parts | Method | cations /Remarks |
| [NXDN Very Narrow] | 1) Adj item: [Nv SQL] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD: 400Hz/ ±1.2kHz) | 1) Adj item: [Open Squelch (NXDN Very Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow -3dB (MOD: 400Hz/ ±1.2kHz) | ment SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| 6. Low RSSI | 1) Adj item: [An LRSSI] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -118dBm (0.28µV) (MOD: 1kHz/ ±1.5kHz) | 1) Adj item: [Low RSSI (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -118dBm (0.28μV) (MOD: 1kHz/ ±1.5kHz) | SSG | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| 7. High RSSI | 1) Adj item: [An HRSSI] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -80dBm (22.4µV) (MOD: 1kHz/ ±1.5kHz) | 1) Adj item: [High RSSI (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: -80dBm (22.4µV) (MOD: 1kHz/ ±1.5kHz) | SSG | Panel | Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| 8. Tight Squelch [Analog Wide 5k] | 1) Adj item: [Aw SQLT] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/ ±3kHz) | 1) Adj item: [Tight Squelch (Analog Wide 5k)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/±3kHz) | SSG Distor- tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |

| Item | Con | dition | Mea | surem | ent | | | Adjustment | Specifi- |
|------------------------|---|---|------------------------------------|-------|-------------------------------------|-------|-------|--|---------------------|
| | Panel tuning mode | PC test mode | Test- equip- ment | Unit | Ter- minal | Unit | Parts | Method | cations /Remarks |
| [Analog Wide 4k] | 1) Adj item: [As SQLT] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/ ±2.4kHz) | 1) Adj item: [Tight Squelch (Analog Wide 4k)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/ ±2.4kHz) | tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |
| [Analog Narrow] | 1) Adj item: [An SQLT] Adjust:[***] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/ ±1.5kHz) | 1) Adj item: [Tight Squelch (Analog Narrow)] 2) Adj item: [Low1]→ [Low3]→ [Center2]→ [High1]→ [High3] SSG output: 12dB SINAD level at Analog Narrow +6dB (MOD: 1kHz/ ±1.5kHz) | tion meter Oscillo- scope | Panel | ANT Ext. SP con- nector | Panel | | [Panel tuning mode] After input signal from SSG, press [O] key to store the adjustment val- ue. [PC test mode] After input signal from SSG, press [Apply] button to store the adjustment value. | |

SECTION 5 TROUBLESHOOTING

5.1 Fault Diagnosis of the BGA (Ball Grid Array) IC

■Overview

A flowchart for determining whether or not the transceiver can be powered on (the LCD does not function even if the power switch is turned on) due to broken BGA parts.

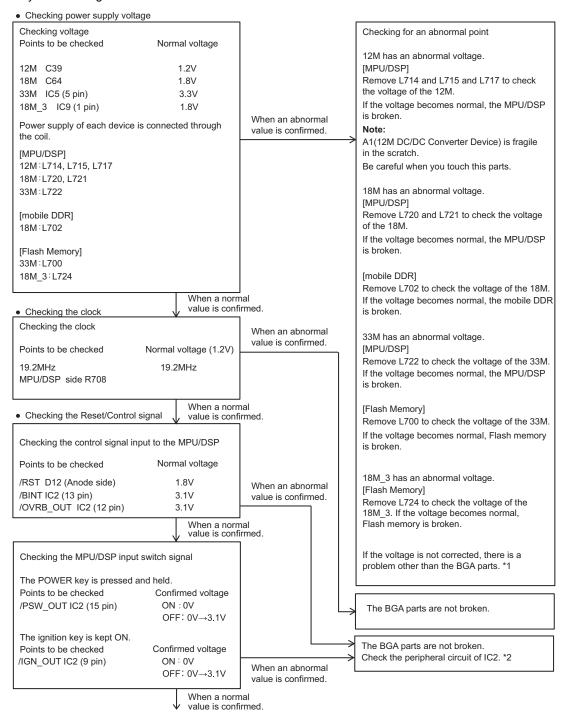
■BGA parts

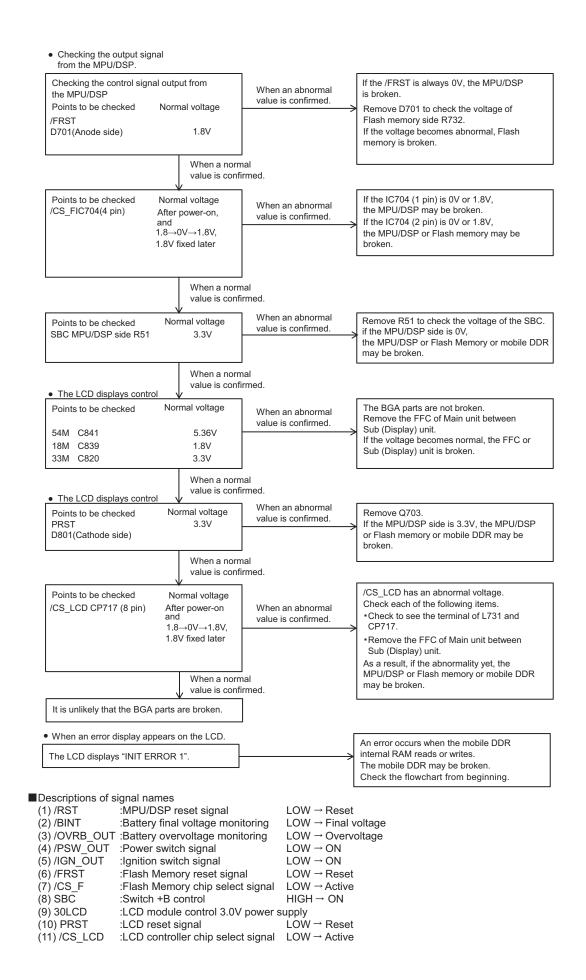
MPU/DSP (IC706), mobile DDR (IC702), Flash memory (IC701)

When the BGA IC is problematic, please bring the printed circuit board (XC1-0381-81/XC1-0400-11) in for service. Various ESN/ default adjustment values are written on the printed circuit board for service.

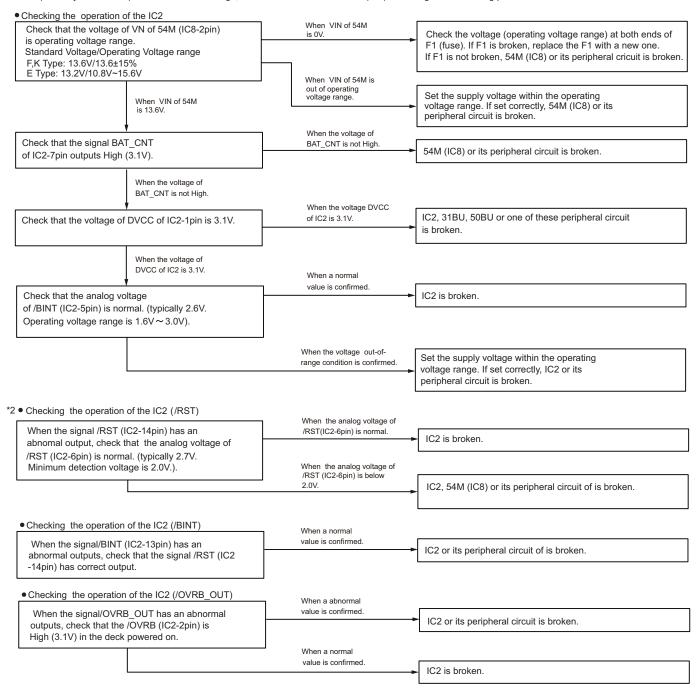
Additionally various ESN stickers are included. (Please refer to "5.4 Replacing Main Unit".)

After the printed circuit board has been readjusted, please attach any ESN stickers to the chassis. When "ESN Validation" is used, you must modify the ESN register.

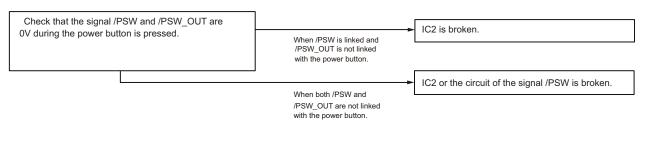




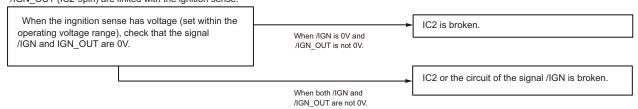
*1 If 12M,18M or 33M has still abnormal voltage after the implementation of each procedure above, 54M(IC8),12M(A1),18M(IC11), 33M(IC5) or one of these peripheral circuit is broken. 54M (normally 5.4V at L12) has an abnormal voltage, check the MSP430G25KGCA (IC2) according to the following procedure.



 Checking the operation of IC2 (/PSW and /IGN) Check that the signal /PSW (IC2-10pin) and /PSW_OUT (IC2-15pin) are linked with the power button on KCH-19 in power on state.



If the ignition function is enabled, check that the signal /IGN (IC2-8pin) and /IGN_OUT (IC2-9pin) are linked with the ignition sense.



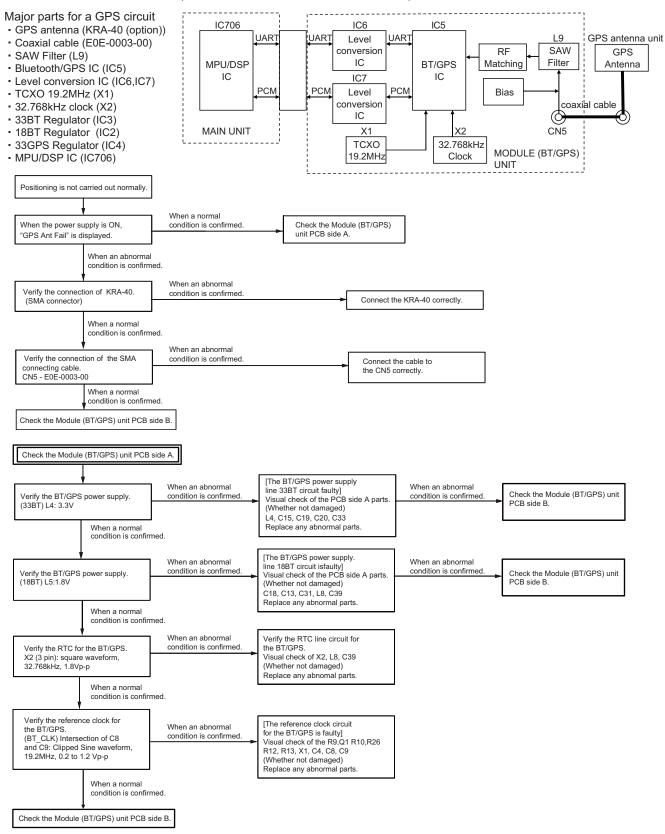
■Remarks related MSP430G25KGCA

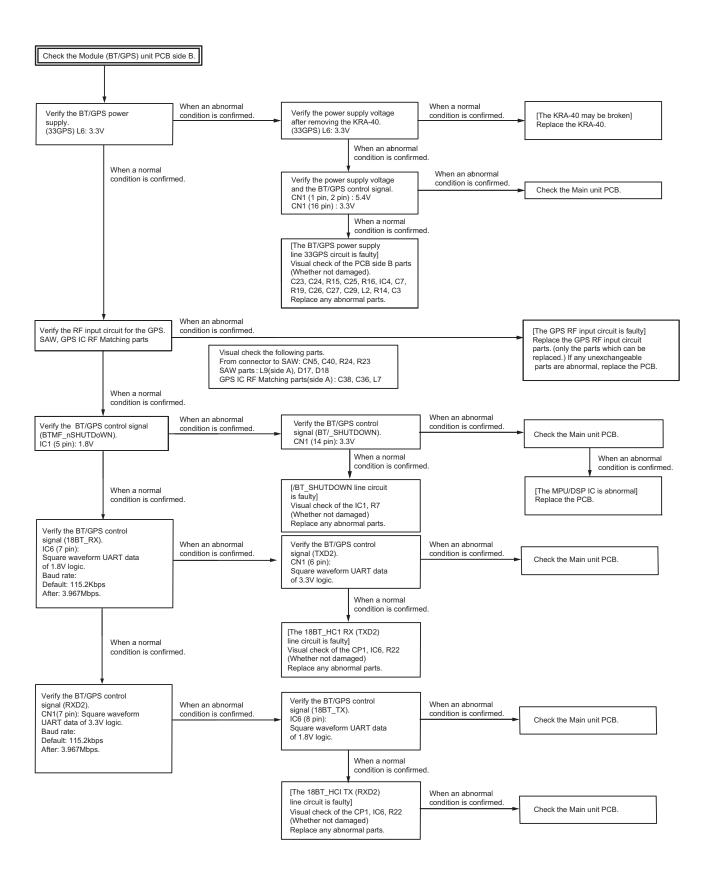
- A. MSP430G25KGCA is written the program.
- B. OMAP communicates with MSP43G25KGCA by serial communication at startup of deck.
 - Only firmware version of MSP43G25KGCA is confirmed OMAP in serial communication.
- Even when firmware version of MSP43G25KGCA can not be acquired, the system of MSP43G25KGCA is started.
- C. If there is the difference of firmware virsion of MSP43G25KGCA between MSP43G25KGCA and OMAP,
 - the firmware version of MSP43G25KGCA is updated with the serial communication by OMAP.
 - "WAIT..." is displayed on the LCD during the firmware update. When the firmware update fails, the system of MSP43G25KGCA is started and OMAP is trying to update again at next startup.

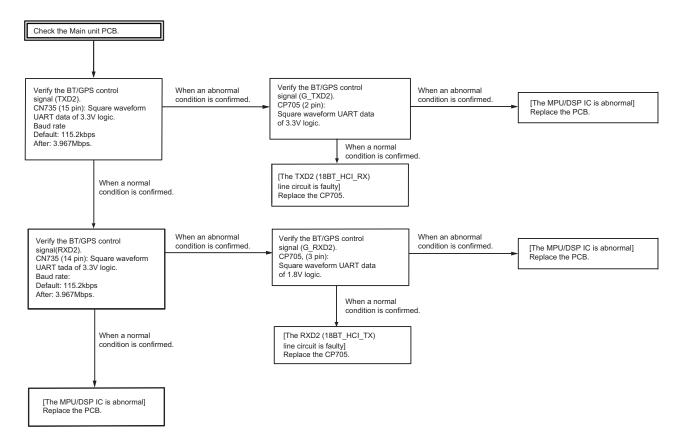
5.2 Failure diagnosis of the GPS section

Over view:

When the GPS function does not operate, use this flowchart to determine the problem.







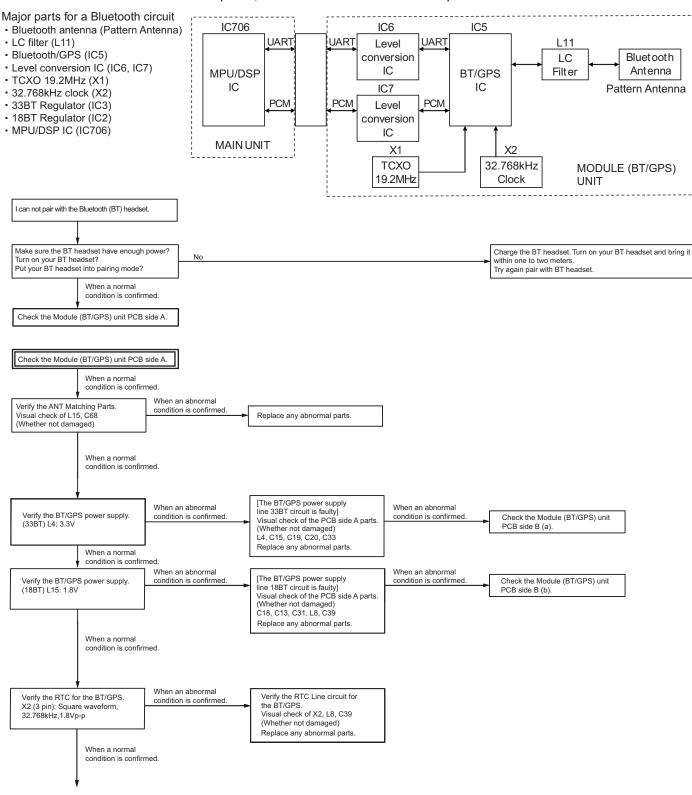
■Descriptions of signal names

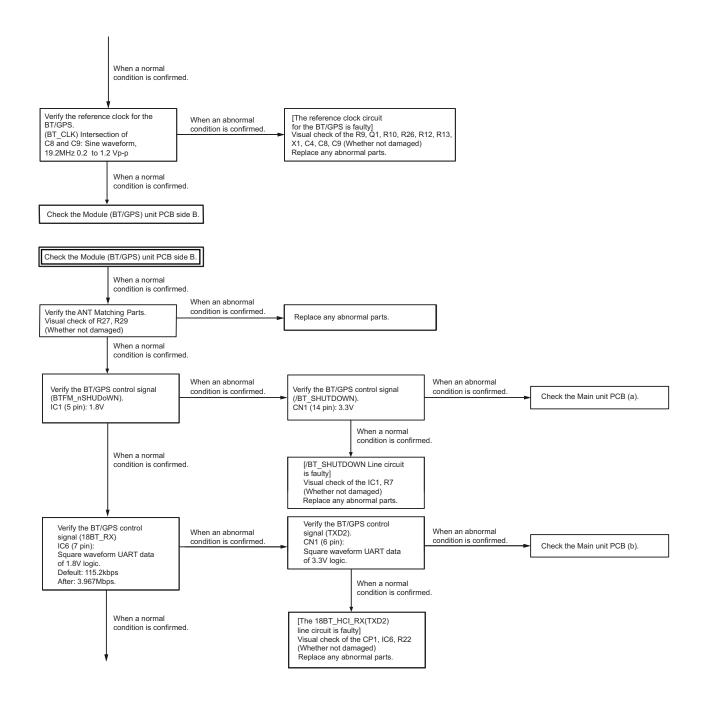
- (1) 33BT: BT/GPS IC 3.3V power supply
- (2) 18BT: BT/GPS IC 1.8V power supply
- (3) 33GPS: BT/GPS IC 3.3V power supply
- (4) TXD2: BT/GPS serial data line connected to UART TX of MPU/DSP IC (MPU/DSP to BT/GPS IC)
- (5) RXD2:BT/GPS serial data line connected to UART RX of MPU/DSP IC (MPU/DSP to BT/GPS IC)
- (6) 18BT_HCI_RX: BT/GPS serial data line connected to UART RX of BT/GPS IC (MPU to BT/GPS IC)
- (7) 18BT_HCI_TX: BT/GPS serial data line connected to UART TX of GPS IC (BT/GPS IC to MPU)
- (8) /BT SHUTDOWN: BT/GPS active control of MPU/DSP IC (MPU/DSP to BT/GPS IC) High → Active, Low → Reset

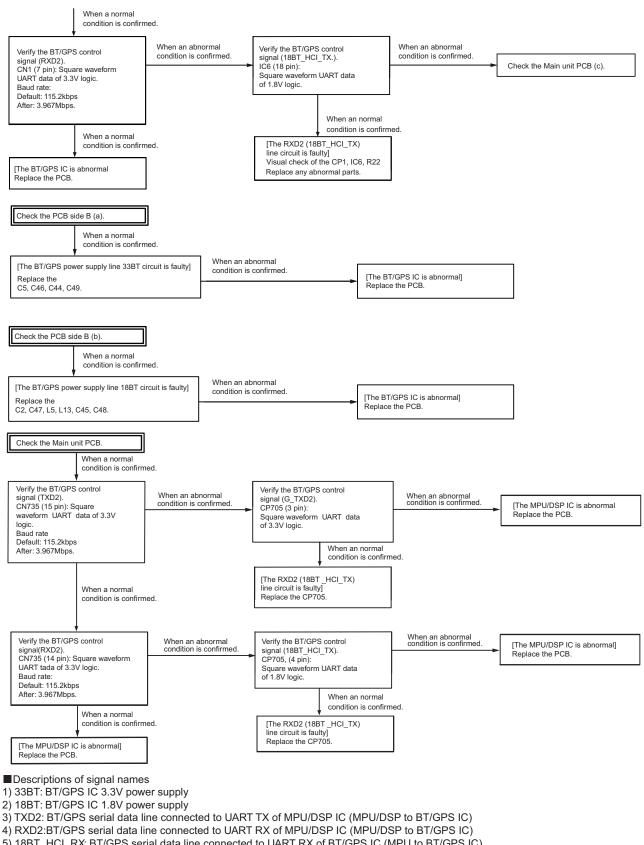
5.3 Failure diagnosis of the Bluetooth section

Over view:

When the Bluetooth function does not operate, use this flowchart to determine the problem.







- 5) 18BT_HCI_RX: BT/GPS serial data line connected to UART RX of BT/GPS IC (MPU to BT/GPS IC)
- 6) 18BT HCI TX: BT/GPS serial data line connected to UART TX of GPS IC (BT/GPS IC to MPU)
- 7) /BT_SHUTDOWN: BT/GPS active control of MPU/DSP IC (MPU/DSP to BT/GPS IC) High →Active, Low→Reset

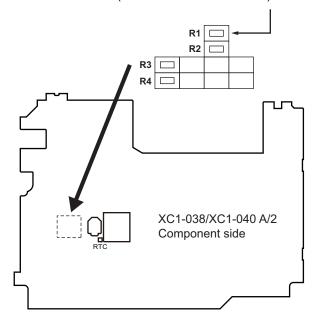
5.4 Replacing Main Unit

■Main unit Information

| Model Name | Original Main unit Number | For Service Main unit Number |
|---------------|------------------------------|------------------------------|
| NX-5700 (F,K) | XC1-0381-80 | XC1-0381-81 |
| NX-5700 (K,E) | XC1-0400-10 | XC1-0400-11 |

■Method of confirming "Original Main unit" and "Service Main unit"

The 0Ω resistor (R1) is mounted on the "R1" silk print part of the Service Main unit (XC1-0381-81/XC1-0400-11).



| XC1-038 | XC1-040 | R1 | R2 | R3 | R4 |
|---------|---------|--------|----|----|--------|
| 1-80 | 0-10 | (None) | 0Ω | 0Ω | (None) |
| 1-81 | 0-11 | 0Ω | 0Ω | 0Ω | (None) |

Note:

- The 0Ω resistor (R1, R2, R3, R4) is used to differentiate the destination with a visual check. These are not connected with any PCB pattern; they are specifically for production control. There is no need to change the mount of these resistors.
- There is no difference between the schematic diagram of the Service Main unit (XC1-0381-81/XC1-0400-11) and the schematic diagram of the original Main unit (XC1-0380-80/XC1-0400-10). (R1, R2, R3 and R4 are connected with GND (ground) only.)

■Supplied Accessories of "Service Main unit"

| Item (Including Parts Number) | Quantity |
|--|----------|
| Main Unit (XC1-038, XC1-040) | 1 |
| KENWOOD ESN/ NXDN ESN/ Product Number/ MPT ESN/ P25 ESN Label | 1 |

■Service Main unit" Data

The following data is written on the service unit:

| Data Type | Desctiption |
|---|---|
| Firmware | NX-5700 Firmware. |
| FPU Data (PC programming mode) | XC1-038, XC1-040 (NX-5700) F, E data. |
| Various Adjustment Data (PC Test mode) | General adjustment values for the XC1-038, XC1-040 (NX-5700). |
| KENWOOD ESN | Model name: [XC1-038, XC1-040] NX-5700S Type: F,K (XC1-038), K,E (XC1-040) The same number as the KENWOOD ESN label is written. |
| NXDN ESN/MPT ESN/ Product number/ P25 ESN | The same number as the NXDN ESN/MPT ESN/Product Number/P25 ESN label is written. |

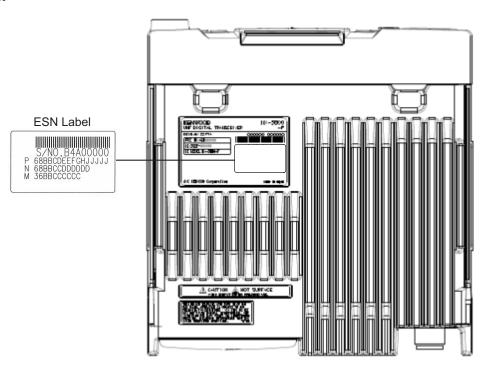
■After Changing the PCB

- (1) After changing the printed circuit board, write the up-todate Firmware following the instructions in the "2.2 RE-ALIGNMENT - 2.2.6 Firmware Programming Mode".
 - Write the Firmware in accordance to the Market. If you write different Market Firmware, there are times communication with the FPU is not possible.
- (2) Using the KPG-D1/D1N, 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.
- (3) Enter Program> Test Mode, then adjust the various adjustment data (PC Test Mode) as described in the "SECTION 4 ADJUSTMENT".
- (4) Attach the new labels corresponding to the new printed circuit board. (Refer to the images below for label placement.)
- (5) If necessary, write the FPU data used by the customer with the KPG-D1/D1N.

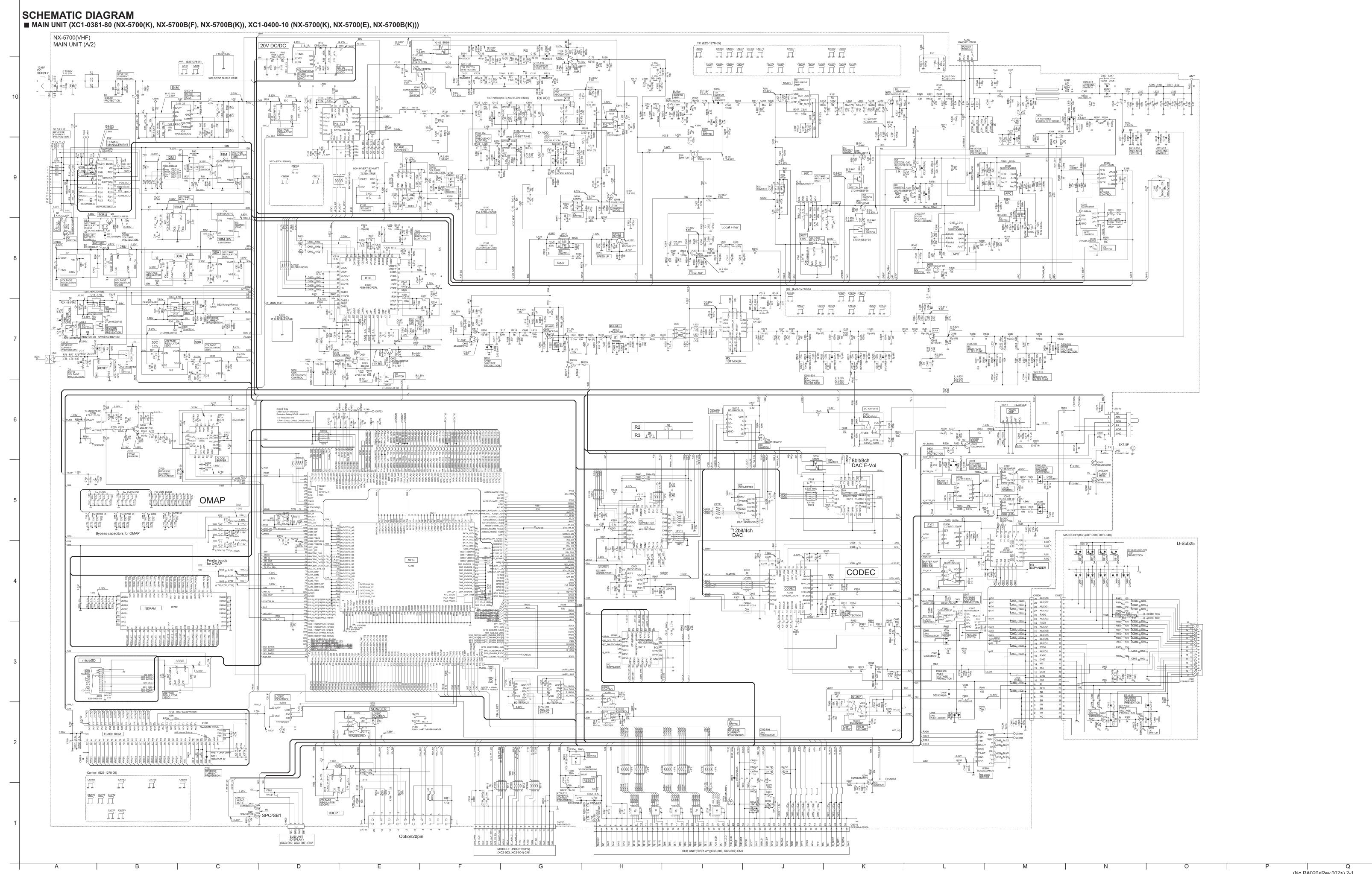
Note:

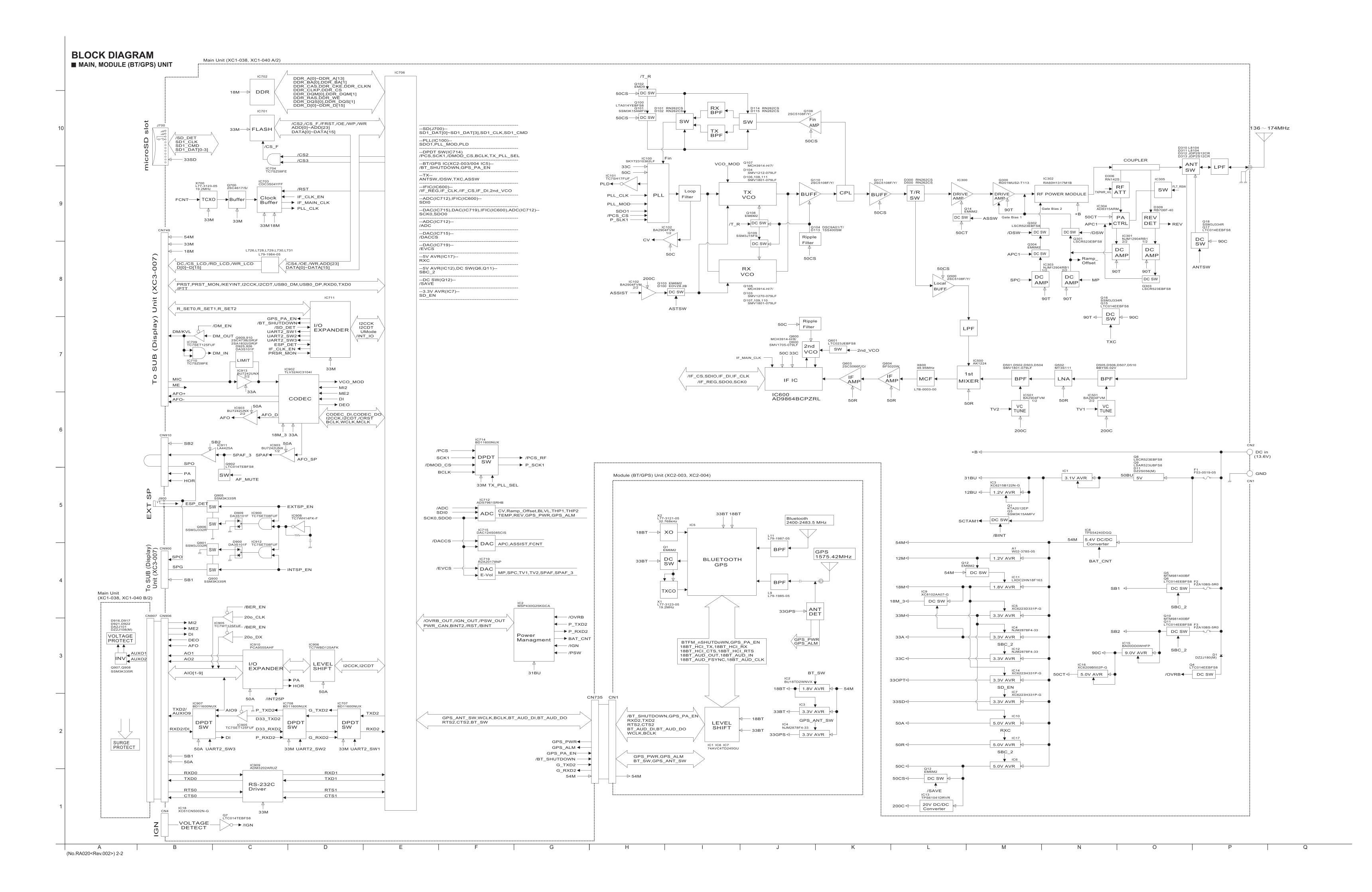
- When using the ESN Validation function of NXDN Trunking, the NXDN ESN number changes when the circuit board is changed (the number is written on the circuit board); the NXDN Trunking System cannot be accessed. Use the KPG-110SM on the NXDN Trunking System side to reprogram the NXDN ESN number.
- When a new printed circuit board is used, the KENWOOD ESN changes, as does the Transceiver Information display of the KPG-D1/D1N, but this does not have any effect on the operation of the transceiver.
- If changing to the original ESN, please contact our service center.
- KPG-D1N can't be used for E type.

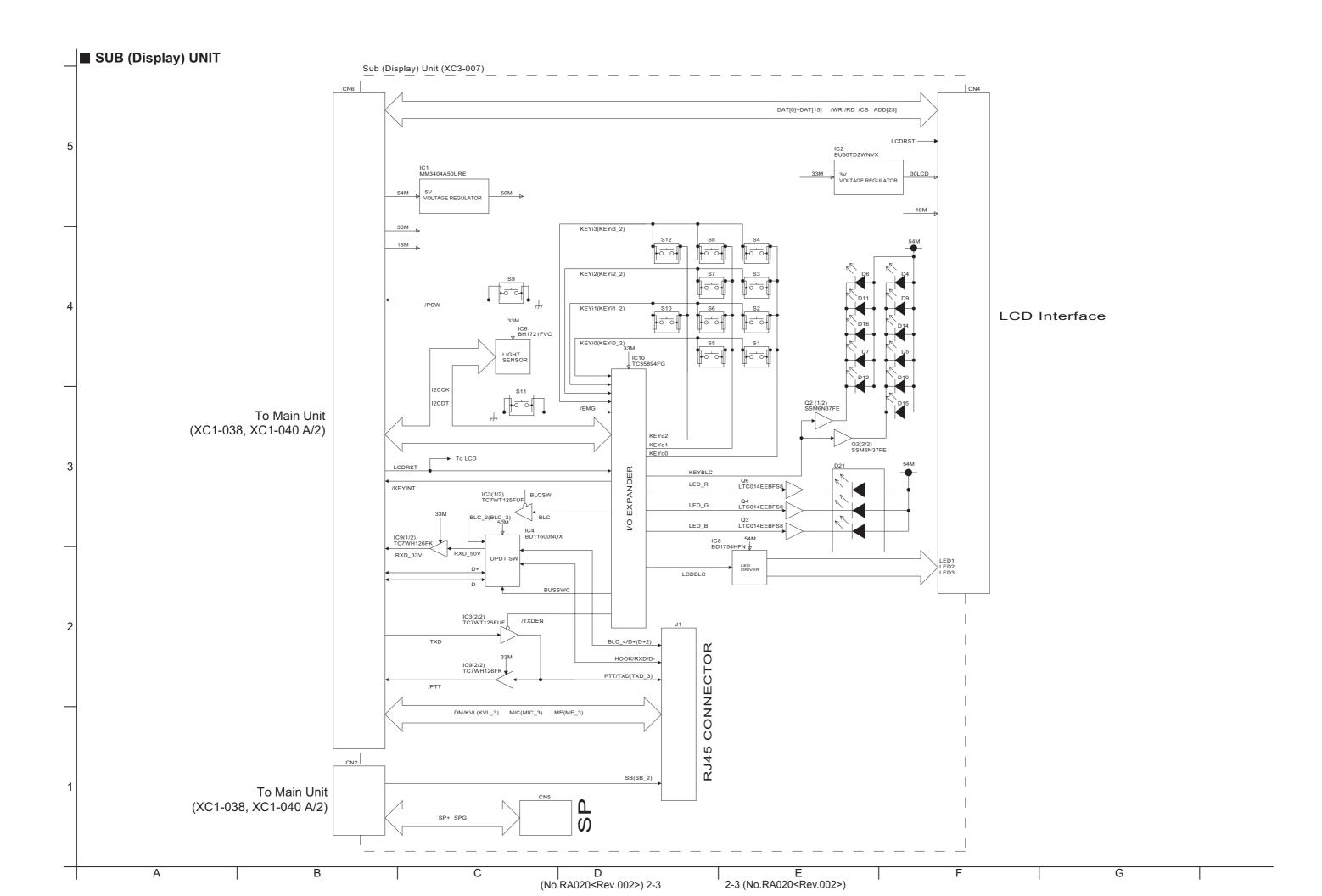
■ESN Label Layout



MEMO

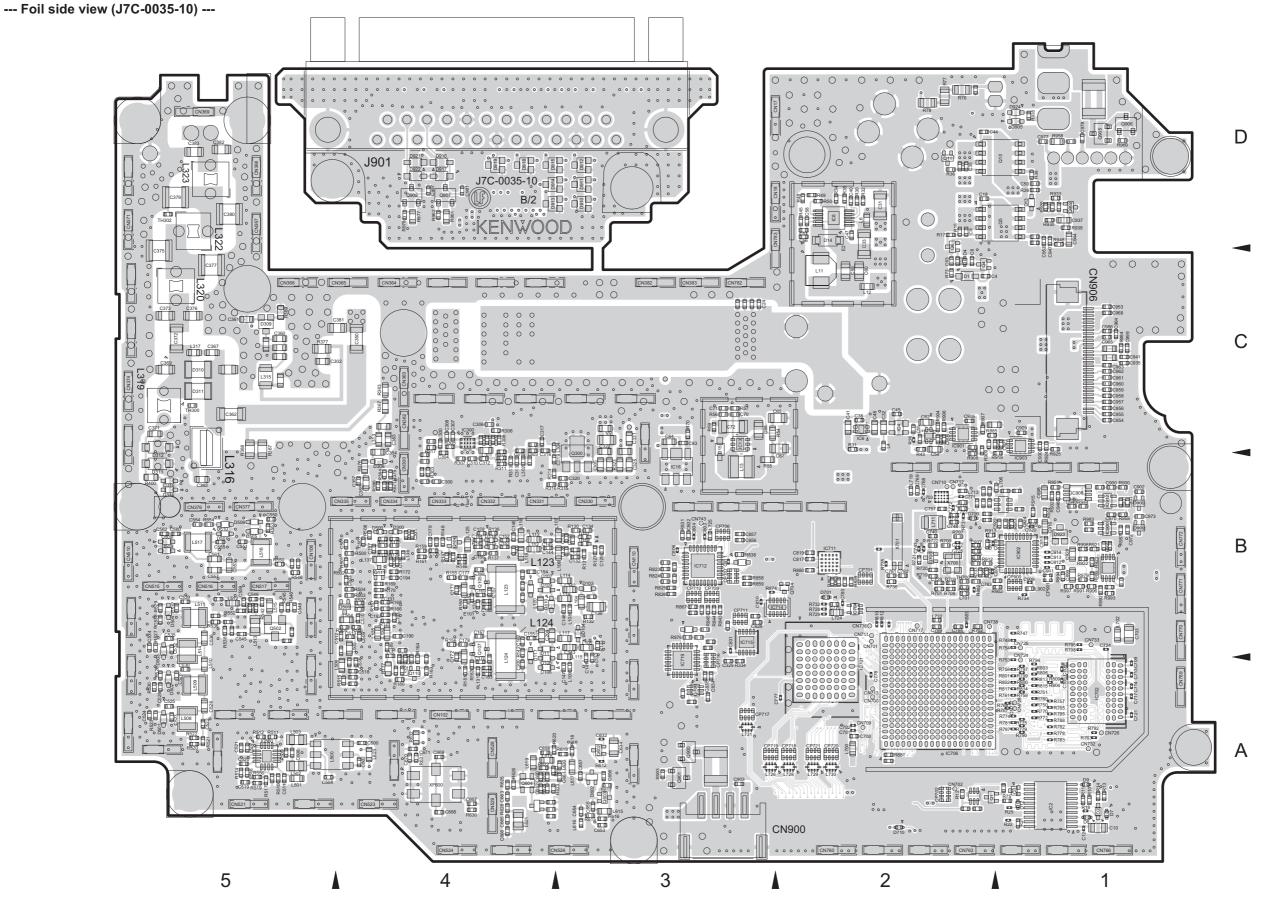






PRINTED CIRCUIT BOARD ■ MAIN UNIT (XC1-0381-80 (NX-5700(K), NX-5700B(F), NX-5700B(K)), XC1-0400-10 (NX-5700(K), NX-5700(E), NX-5700B(K))) --- Component side view (J7C-0035-10) ---CN3 0 . \$ R402 O O GND° 6 0 D 000000000 000000 0 0 0 0 0 0 0 0 0 0 0 0 0 000 C 000 В CN12 0075 0075 TXD0 0 2 3 5

■ MAIN UNIT (XC1-0381-80 (NX-5700(K), NX-5700B(F), NX-5700B(K)), XC1-0400-10 (NX-5700(K), NX-5700(E), NX-5700B(K)))



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

A-1C
Side

Y axis
X axis

| DEENO | LOCATION | DEENO | LOCATION | DEENO | LOCATION | DEENO | LOCATION | DEENO | | X axis | ION DEENO | LOCATION | DEENO | LOCATION | DEE NO 1 | OCATION I | DEENO | LOCATION | DEENO LO | CATIONES | DEENO 10 | CATION DEEDIO | LOCATION | DEENO | LOCATION | DEENO 1 | OCATION! | DEE NO 1 | OCATION! | DEENO : | OCATION |
|----------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|-------|-------------------------|-----------|----------------|--------------|----------------|--------------|--------------------|--------------|----------------|----------|--------------------|----------|------------------------------|----------------|----------------|--------------------|-----------|----------------|--------------|----------------|-------------------|----------------|
| IC | LOCATION | Q305 | | D904 | A- 1B | REF.NO. | A- 1C | REF.NO. | A- 4B | REF.NO. LOCA R536 B- | | B- 1A | REF.NO. | B- 2C | C39 | - | C157 | $\overline{}$ | | _ | | CATION REF.NO. A- 4A C755 | A- 2A | C920 | $\overline{}$ | | B- 3B | L10 | A- 3B | REF.NO. L L612 | A- 4A |
| IC1 | | Q306 | A- 4B | D905 | B- 1D | R97 | A- 1C | R323 | B- 3B | R538 B- | B R775 | B- 1A | R919 | B- 1B | C40 | B- 2D | C159 | B- 4B | C374 | A- 4B C | C629 A | A- 3A C756 | A- 2A | C921 | B- 1C | CN300 | B- 4B | L11 | B- 2C | L613 | A- 4A |
| IC2 | | Q500 | | D906 | | | A- 4B | R324 | | R539 A- | | A- 2B | R920 | | C41 | | C161 | | | | | A- 4A C757 | | C922 | | | | L12 | | L614 | A- 4A |
| IC3 IC4 | | Q502 Q600 | | D907 D908 | A- 1B A- 1C | R101 R102 | A- 4B A- 3B | R325 R327 | | R540 A- 9 R542 B- 9 | | B- 1A B- 1A | R921 R922 | | C43 C44 | | C162 C164 | | | | | A- 4A C758 B- 3A C759 | | C924 C925 | | | | L13 L14 | | L615 L616 | B- 3A B- 3A |
| IC5 | | Q601 | | D909 | | R103 | A- 3B | R328 | | R543 A- | | B- 1A | R923 | | C45 | | C165 | | | | | A- 4A C760 | | C926 | | | | L15 | | L617 | B- 3A |
| IC6 | | Q602 | | D910 | B- 3D | R104 | A- 3B | R329 | | R545 B- | | B- 1A | R924 | | C46 | | C166 | | | | | B- 3A C762 | | C927 | | | | L16 | | L618 | B- 4A |
| IC7 IC8 | | Q603 Q604 | | D911 D912 | B- 3D B- 3D | R105 R106 | A- 3B A- 3B | R330 R332 | | R546 B- 9 R548 B- 9 | | B- 1A B- 1A | R925 R926 | | C47 C48 | | C167 C168 | | | | | A- 4A C764 A- 4A C766 | | C928 C929 | | | | L80 L100 | | L619 L620 | B- 4A B- 3A |
| IC9 | | Q700 | | D913 | B- 4D | R107 | A- 3B | R333 | | R550 B- | | B- 1A | R927 | | C49 | | C169 | | | | | A- 4A C768 | | C930 | | | | L101 | | L621 | B- 4A |
| IC10 | | Q701 | | D914 | B- 4D | R108 | A- 4B | R334 | | R551 A- | | B- 1A | R928 | | C50 | | C170 | | | | | A- 4A C769 | | C931 | | | | L102 | | L623 | B- 4A |
| IC11 IC12 | | Q703 Q704 | | D915 D916 | B- 4D B- 4D | R109 R110 | A- 3B A- 4A | R335 R336 | | R552 B- 9 R553 B- 9 | | A- 1A B- 1A | R930 R932 | | C51 C52 | | C171 C172 | | | | | A- 4A C770 A- 4A C771 | | C932 C933 | | | | L103 L104 | | L626 L700 | A- 4A B- 2A |
| IC13 | | Q705 | | D917 | B- 4D | R111 | A- 4B | R337 | A- 3C | R554 B- | B R791 | A- 1A | R933 | B- 1D | C53 | A- 3B | C173 | B- 4B | C388 | | | A- 4A C772 | B- 2B | C934 | | | | L105 | | L701 | B- 2B |
| IC14 | | Q706 | | D918 | | R112 | A- 3B | R338 | | R556 B- | | B- 1A | R935 | | C54 | | C174 | | | | | A- 4A C773 | | C935 | | | | L106 | | L702 | B- 1B |
| IC15 IC16 | | Q900 Q901 | | D919 D920 | B- 4D A- 4D | R113 R115 | A- 4B A- 3B | R339 R340 | | R600 A-4 R601 A-4 | | B- 1A B- 1B | R936 R937 | | C55 C56 | | C175 C176 | | | | | A- 4A C774 A- 4A C775 | | C936 C937 | | | | L107 L108 | | L706 L711 | B- 1B B- 2B |
| IC17 | A- 3B | Q902 | B- 1D | D921 | B- 4D | R116 | A- 4B | R341 | A- 3C | R602 A- | A R797 | B- 1A | R938 | B- 1D | C57 | A- 3B | C177 | B- 4B | C500 I | B- 4A C | C645 A | A- 3A C776 | A- 2B | C938 | A- 1C | CN374 | B- 5C | L109 | B- 3A | L713 | B- 2B |
| IC18 IC100 | | Q905 Q906 | | D922 D923 | B- 4D B- 1B | R117 R118 | A- 3B A- 4A | R342 R343 | | R603 A- 3 R604 A- 3 | | B- 1B B- 1A | R939 R940 | | C58 C59 | | C178 C179 | | | | | A- 4A C777 A- 4A C778 | | C940 C941 | | | | L112 L113 | | L714 L715 | A- 2A A- 2B |
| IC100 | | Q907 | | D924 | | R119 | A- 4B | R345 | | R605 A-4 | | B- 1A | R941 | | C60 | | C180 | | | | | A- 4A C779 | | C942 | | | | L114 | | L716 | A- 2B |
| IC102 | | Q908 | B- 4D | | | R121 | A- 3B | R346 | | R606 A-3 | | B- 1A | R943 | | C61 | | C181 | | | | | A- 3A C780 | | C943 | | | | L115 | | L717 | A- 2B |
| IC300 IC301 | B- 4C A- 4C | DIODE | | RESIST | OR A- 2B | R122 R123 | A- 4B A- 4B | R347 R348 | | R607 A- 3 R608 A- 3 | | B- 1A B- 1A | R944 R945 | | C62 C63 | | C182 C183 | | | | | A- 3A C781 A- 4A C782 | | C944 C945 | | | | L116 L117 | | L718 L719 | A- 2B B- 2B |
| IC303 | | D1 | | R2 | | R124 | A- 3B | R350 | | R609 A- | A R804 | B- 1A | R947 | A- 4D | C64 | A- 3B | C187 | | | | | A- 4A C783 | B- 2B | C946 | | | | L118 | B- 4B | L720 | A- 2B |
| IC304 | | D2 | | R3 | A- 1B | | A- 3B | R351 | | R610 A-4 | | A- 2A | R948 | | C65 | | C189 | | | | | B- 3A C784 | | C947 | | | | L119 | | L721 | A- 2A |
| IC305 IC500 | | D3 D4 | | R8 R10 | A- 2D B- 1A | R126 R127 | A- 4B B- 3B | R353 R355 | | R611 A- 4 R612 B- 3 | | B- 1A A- 2A | R949 R950 | | C66 C67 | | C190 C191 | | | | | B- 3A C785 B- 3A C786 | | C948 C949 | | | | L120 L121 | | L722 L723 | A- 2B B- 2B |
| IC501 | A- 5A | D5 | A- 2C | R11 | B- 1A | R128 | A- 4B | R356 | A- 4C | R613 A- | A R808 | A- 2A | R951 | B- 1B | C68 | B- 3C | C192 | B- 4B | C512 I | B- 4B C | C656 E | B- 3A C787 | A- 1A | C950 | A- 2B | CN524 | B- 4A | L122 | A- 4B | L724 | B- 2B |
| IC600 IC701 | | D6 D7 | | R12 R13 | B- 2A B- 1A | R129 R130 | A- 4B B- 3B | R357 R358 | | R614 A- 4 R615 B- 3 | | B- 1A B- 2B | R953 R954 | | C69 C70 | | C193 C194 | | | | | B- 3A C791 B- 4A C792 | | C951 C952 | | | | L123 L124 | | L725 L726 | B- 3B B- 3A |
| IC702 | B- 1A | D8 | | R14 | B- 1A | | B- 3B | R359 | | R616 B-3 | A R812 | B- 2B | R955 | B- 1B | C71 | B- 3C | C195 | B- 4B | C518 I | B- 4A C | C659 E | B- 4A C793 | A- 1A | C953 | B- 1C | CN529 | | L124 L125 | B- 4B | L728 | B- 2A |
| IC703 | | D9 | | R15 | B- 2D | R132 | B- 3B | R360 | | R617 B-3 | | B- 1A | R956 | | C72 | | C196 | | | | | B- 4A C794 | | C954 | | | | L128 | | L729 | B- 2A |
| IC704 IC705 | | D10 D11 | | R16 R17 | A- 2B B- 2D | R133 R135 | B- 3B A- 4B | R363 R364 | | R618 B- 3 R619 B- 3 | | B- 1A B- 1A | R957 R958 | | C73 C74 | | C197 C200 | | | | | B- 3A C795 B- 4A C796 | | C955 C956 | | | | L129 L130 | | L730 L731 | B- 2A B- 3A |
| IC706 | B- 2A | D12 | B- 1A | R18 | B- 1A | R136 | B- 4B | R365 | A- 4C | R620 B- | A R816 | A- 1A | R960 | B- 1D | C75 | A- 3B | C201 | A- 3B | C522 I | B- 5A C | C663 E | B- 4A C797 | A- 1A | C957 | B- 1C | CN749 | A- 2A | L131 | B- 4A | L732 | B- 2B |
| IC707 IC708 | | D13 D14 | | R19 R20 | A- 2C A- 2C | R137 R138 | B- 4B A- 4B | R366 R367 | | R621 B- 4 R622 B- 4 | | B- 1A A- 4B | R961 R962 | | C76 C77 | | C202 C204 | | | | | B- 4A C798 B- 4A C799 | | C958 C959 | | | | L132 L134 | | L901 L902 | B- 2B B- 1B |
| IC700 | | D14 | | R21 | B- 1A | R139 | A- 4B | R368 | | R623 B- | | A- 4B A- 2A | R963 | | C78 | | C300 | | | | | B- 4A C800 | | C960 | | | | L135 | | L902 | A- 4D |
| IC710 | | D16 | | R22 | B- 1A | R141 | A- 4B | R371 | | R624 B- 4 | | B- 3B | R964 | | C80 | | C301 | | | | | B- 4A C801 | | C961 | | | | L136 | | L907 | A- 4D |
| IC711 IC712 | | D17 D100 | | R23 R24 | A- 3B A- 3B | R142 R143 | B- 4B B- 4B | R374 R375 | | R625 B- 4 R626 B- 4 | | B- 3B B- 3B | R965 R966 | | C81 C82 | | C302 C304 | | | | | B- 4A C802 B- 4A C803 | | C962 C963 | | | | L137 L139 | B- 4B A- 3B | XF600 | B- 4A |
| IC714 | | D101 | | R25 | B- 1A | R144 | A- 4B | R376 | | R628 B- | | B- 3B | R967 | | C83 | | C306 | | | | | B- 4A C804 | | C964 | | | | L300 | B- 4C | 7ti 000 | 5 47. |
| IC715 IC719 | | D102 | | R26 R27 | B- 2C | R145 | A- 4B | R377 R378 | | R630 B- 4 R631 B- 4 | | B- 2B | R968 R969 | | C84 C85 | | C307 C308 | | | | | A- 1A C805 B- 2A C806 | | C965 C966 | | | | L301 | B- 4C | | |
| IC719 | | D103 D104 | | R29 | A- 3B A- 3B | R146 R147 | B- 4B B- 4B | R379 | | R631 B- 4 R632 B- 4 | | A- 3A B- 3B | R970 | | C100 | | C309 | | | | | B- 2A C806 B- 2A C807 | | C967 | | | B- 3C B- 3A | L302 L303 | B- 4B B- 4C | | |
| IC900 | B- 1B | D106 | B- 4A | R30 | B- 2D | R148 | B- 4B | R380 | A- 4B | R700 B- 2 | B R833 | A- 3A | R971 | A- 4D | C101 | A- 4B | C310 | B- 4B | C536 I | B- 5B C | C702 E | B- 2A C808 | A- 3A | C968 | B- 1C | CN906 | B- 1C | L304 | B- 4C | | |
| IC901 IC902 | | D107 D108 | | R31 R32 | B- 2C B- 2D | R150 R151 | B- 4B B- 4A | R381 R384 | | R701 B- 2 R702 B- 2 | | A- 3A A- 3A | R972 R973 | | C102 C103 | | C311 C312 | | | | | B- 1B C809 B- 2B C810 | | C969 C970 | | | A- 4D A- 1D | L305 L306 | B- 3B B- 3C | | |
| IC902 | | D100 | | R33 | B- 2D | R152 | B- 4B | R385 | | R707 B- 2 | | B- 3B | R974 | | C103 | | C313 | | | | | B- 1A C811 | | C971 | A- 1D | 514510 | A- 1D | L308 | A- 5C | | |
| IC904 | | D110 | | R34 | B- 2D | R153 | B- 4A | R386 | | R708 B- 2 | | A- 3A | R975 | | C106 | | C315 | | | | | 3- 1A C812 | | C972 | | | A- 3B | L309 | A- 3C | | |
| IC905 IC906 | | D111 D113 | | R35 R36 | B- 2D B- 2D | R154 R155 | A- 4B B- 4B | R387 R388 | | R709 B- 2 R719 B- 2 | | B- 3B B- 3B | R976 R977 | | C107 C108 | | C317 C318 | | | | | A- 2A C813 A- 2A C814 | | C973 C975 | | | | L310 L311 | A- 4C A- 4C | | |
| IC907 | | D114 | | R37 | A- 3B | R156 | B- 4B | R389 | | R720 B-2 | | B- 3B | R978 | | C109 | | C319 | | | | | B- 1A C815 | | C976 | | | | L312 | A- 4C | | |
| IC908 | | D115 | | R38 | B- 1D | R157 | A- 4B | R391 | | R721 B- 2 | | A- 3A | R979 | | C110 | | C320 | | | | | A- 2A C816 | | C977 | | | | L313 | B- 4C | | |
| IC909 IC910 | | D117 D300 | | R39 R40 | B- 1D A- 3B | R158 R159 | B- 4B B- 4B | R394 R395 | | R722 B- 2 R727 B- 2 | | A- 3A B- 3B | R980 R981 | | C111 C112 | | C321 C322 | | | | | A- 2A C817 B- 1A C818 | | C978 C979 | | | | L315 L316 | B- 5C B- 5C | | |
| | | D301 | A- 4C | R41 | A- 3B | R161 | B- 4B | R396 | A- 4B | R728 B- 2 | B R859 | B- 3B | R982 | A- 4D | C113 | A- 3B | C325 | B- 3B | C551 I | B- 5B C | C714 E | B- 1A C819 | B- 2B | C980 | A- 4D | CP706 | B- 3B | L317 | B- 5C | | |
| TRANS | ISTOR | D302 D306 | | R42 R43 | A- 3A B- 2C | R162 R163 | A- 4B B- 4A | R397 R398 | | R729 B- 2 R731 B- 2 | | B- 2B A- 3A | R983 R984 | | C114 C115 | | C327 C328 | | | | | A- 2A C820 A- 2A C821 | | C981 C982 | | | | L318 L319 | A- 4C B- 5C | | |
| Q1 | | D307 | | R44 | | R164 | | R399 | | R732 B- 2 | | A- 3A | R985 | | C116 | | C329 | | | | | 3- 1A C822 | | C983 | | CP710 | | L320 | B- 5C | | |
| Q3 | B- 1A | D309 | B- 5C | R45 | B- 2D | R165 | B- 4A | R400 | B- 5B | R733 B- 2 | | B- 2B | R991 | B- 1B | C118 | A- 4B | C330 | A- 5C | | B- 5B C | | A- 2A C824 | A- 2A | C984 | A- 4D | | B- 3B | L321 | A- 5D | | |
| Q4 Q5 | | D310 D311 | B- 5C B- 5C | R46 R47 | A- 3A A- 3B | R166 R167 | B- 4B B- 4B | R402 R403 | | R734 B- 2 R735 B- 2 | | B- 4B B- 3B | R992 R993 | | C120 C121 | | C331 C332 | | | B- 5B C B- 5B C | | A- 2A C829 A- 2A C830 | B- 3B B- 3B | C985 C986 | | | B- 3A B- 3A | L322 L323 | B- 5D B- 5D | | |
| Q6 | B- 2D | D312 | B- 5C | R48 | B- 2D | R168 | B- 4B | R500 | B- 4B | R736 B- 2 | B R868 | A- 3A | R994 | B- 1B | C124 | A- 4B | C333 | A- 4B (| C560 I | B- 5B C | C721 E | B- 1A C831 | B- 3B | C987 | A- 3D | CP718 | B- 2A | L324 | A- 5D | | |
| Q7 Q8 | | D313 D314 | B- 5B B- 5B | R49 R50 | B- 2D B- 2D | R169 R170 | B- 4B B- 4B | R501 R502 | | R738 A- 1 R740 A- 1 | | A- 2A B- 4B | R996 R997 | | C125 C126 | | C334 C335 | | | | | B- 2B C834 A- 2A C835 | B- 3A B- 3A | C988 C989 | | | B- 3A B- 2A | L500 L501 | B- 5A B- 5A | | |
| Q9 | A- 2C | D315 | B- 5B | R51 | B- 2C | R171 | B- 4B | R503 | B- 4B | R742 A- | B R874 | B- 3B | R998 | | C127 | A- 3B | C336 | A- 4C | C600 | A- 4A C | C724 E | B- 1B C839 | A- 2A | C990 | A- 3D | CP721 | B- 2A | L502 | B- 5A | | |
| Q10 | | D500 | B- 4B | R52 | A- 3B | R172 | B- 4B | R504 | | R744 A- | | B- 3B | CADA | ITOP | C128 | | C338 | | | | | A- 2A C841 | A- 2A | C991 | | | B- 1B | L503 L504 | B- 5A | | |
| Q11 Q12 | | D501 D502 | B- 5A B- 5A | R53 R54 | A- 3B B- 3C | R173 R174 | B- 4B B- 4B | R505 R506 | | R746 A- 1 R747 B- 1 | | A- 2A A- 2A | CAPAC C1 | | C129 C131 | | C340 C341 | | | | | B- 2B C852 A- 2B C853 | A- 2A A- 2A | C992 C993 | A- 4D (A- 4D | 2P901 | B- 1B | L504 L505 | B- 4B B- 4B | | |
| Q14 | A- 3B | D503 | B- 5B | R55 | B- 3B | R175 | B- 4B | R507 | B- 4B | R748 B- | B R879 | A- 2A | C2 | A- 2D | C132 | B- 3B C | C343 | A- 4B (| C604 | A- 4A C | C729 E | 3- 2B C854 | A- 2A | C994 | A- 4D A | A1 | A- 3B | L506 | B- 4A | | |
| Q15 Q16 | | D504 D505 | B- 5B B- 5B | R56 R57 | B- 3C | R176 R177 | B- 4B Β- 4Δ | R508 R509 | | R749 A- 1 R750 B- 1 | | B- 2B B- 2A | C3 C4 | | C133 C134 | | C345 C346 | | | | | A- 2A C856 A- 2B C857 | B- 3B B- 3B | C995 C996 | A- 4D A- 4D | Ξ2 | B- 2D | L507 | B- 5A B- 5Δ | | |
| Q16 Q17 | | D505 D506 | B- 5B B- 5B | R58 | B- 3C A- 1B | R177 | B- 4A A- 3B | R509 R510 | | R750 B- | | B- 2A B- 2B | C5 | | C134 C135 | | C346 | | | | | A- 2B C857 A- 2A C898 | B- 1B | C997 | | | B- 2D A- 4B | L508 L509 | B- 5A B- 5A | | |
| Q18 | A- 5B | D507 | B- 5B | R59 | B- 3C | R179 | A- 3B | R511 | B- 5A | R752 A- | A R883 | B- 2B | C8 | B- 2C | C136 | B- 3B C | C348 | A- 4B | C608 | A- 4A C | C733 A | A- 2B C899 | B- 1B | C998 | A- 4D | E101 | B- 4B | L510 | B- 5A | | |
| Q81 Q100 | | D508 D509 | B- 5B B- 5B | R60 R61 | A- 3C A- 3B | R180 R300 | B- 4A B- 4B | R512 R514 | | R753 B-1 R754 B-1 | | A- 2A B- 2C | C9 C10 | | C137 C138 | B- 3A C B- 3B C | C349 C350 | | | | | A- 2A C900 A- 2B C901 | B- 1B B- 1B | C999 | B- 1C | E600 | A- 4A | L511 L512 | B- 5B B- 5B | | |
| Q101 | A- 4B | D510 | B- 5B | R62 | A- 1C | R303 | B- 4B | R515 | B- 4A | R755 A- | A R900 | B- 1B | C11 | A- 2D | C139 | B- 3B C | C351 | A- 4C | C611 | A- 3A C | 2736 A | A- 2A C902 | B- 1B | OTHER | F | | | L513 | B- 5B | | |
| Q102 | | D600 | A- 3A | R63 | A- 1C | R305 | B- 4C | R516 | B- 5A | R756 A- | A R901 | B- 1B | C12 | B- 1A | C141 | B- 3A C | C353 | B- 4C (| C612 | | C737 A | A- 2A C903 | B- 3A | X700 | B- 2B | 2 | A- 2D | L514 | B- 5B | | |
| Q103 Q104 | | D601 D602 | A- 4A B- 3A | R64 R65 | A- 1C A- 1C | R306 R307 | B- 4C B- 4B | R517 R519 | | R757 B- 1 R758 B- 1 | | B- 1B B- 3A | C13 C16 | | C142 C143 | | C354 C355 | | | | | B- 2B C904 A- 2B C905 | B- 2C B- 2C | X701 | | | | L515 L516 | B- 5B B- 5B | | |
| Q105 | B- 4B | D700 | B- 2B | R66 | A- 3C | R308 | B- 4C | R520 | B- 5A | R759 B- | A R904 | B- 2C | C18 | B- 2D | C144 | B- 4B | C357 | B- 4B | C615 | A- 4A C | C740 E | 3- 2B C906 | B- 2C | TH300 | B- 5C | | - 1 | L517 | B- 5B | | |
| Q106 Q107 | | D701 D702 | | R67 R68 | A- 3C A- 5B | R309 R310 | B- 4C B- 4C | R521 R522 | | R760 B- 1 R761 B- 1 | | B- 2C B- 2C | C21 C24 | A- 2B B- 3C | C145 C146 | B- 4B C B- 3B C | C359 C360 | A- 4C B- 5C | | | | A- 2B C908 A- 2A C909 | | TH301 TH302 | | | | L600 | A- 3A A- 4A | | |
| Q107 Q108 | | D702 D703 | A- 3A A- 3A | R69 | A- 5B A- 5B | R310 | B- 4C B- 4B | R522 R523 | | R761 B-1 R762 A-1 | | B- 2C B- 2C | C24 C25 | | C146 C147 | | C361 | | | | | A- 2A C909 B- 2B C910 | | TH700 | | | | L601 L602 | A- 4A A- 4A | | |
| Q109 | A- 4B | D704 | A- 2A | R70 | B- 3C | R312 | B- 4B | R525 | A- 5A | R763 B- | A R908 | B- 2B | C30 | A- 2B | C148 | B- 4B C | C362 | B- 5C (| C619 | A- 4A C | C745 A | A- 2B C911 | B- 1B | l | - 1 | | - 1 | L603 | A- 3A | | |
| Q110 Q111 | | D705 D706 | | R71 R72 | A- 1A A- 1A | R313 R314 | B- 4B B- 4B | R526 R527 | | R764 A- 1 R765 B- 1 | | B- 2C B- 2B | C31 C32 | | C149 C150 | | C363 C365 | | | | | A- 2A C912 A- 2A C913 | | CN2 CN3 | A- 2C L A- 2D L | | | L604 L605 | A- 4A A- 3A | | |
| Q111 Q112 | A- 3B | D708 | A- 2A | R73 | B- 2C | R315 | B- 4B B- 3B | R528 | A- 5A | R766 A- | A R912 | B- 2B | C33 | B- 2D | C150 | A- 4B | C367 | B- 5C (| C622 | A- 4A C | C748 E | 3- 2B C914 | B- 1B | CN4 | | | | L606 | A- 3A A- 4A | | |
| Q300 | B- 3B | D710 | B- 2A | R75 | B- 1A | R316 | B- 4B | R529 | B- 5B | R767 B- | A R913 | B- 2B | C34 | A- 3B | C152 | B- 4B C | C368 | A- 5B | C623 | A- 3A C | C749 A | A- 2A C915 | B- 1B | CN12 | A- 2B | _4 | B- 2C | L607 | A- 3A | | |
| Q301 Q302 | | D711 D801 | A- 2A A- 2A | R76 R77 | B- 2D B- 2D | R317 R318 | B- 4C A- 4C | R530 R531 | | R768 B-1 R770 B-1 | | B- 1B B- 1B | C35 C36 | | C153 C154 | | C369 C370 | | | | | A- 2B C916 A- 2A C917 | | CN17 CN18 | | | | L608 L609 | A- 4A A- 4A | | |
| Q303 | A- 4C | D900 | B- 1B | R78 | B- 2D | R319 | A- 4C | R532 | A- 5A | R772 B- | A R916 | B- 1B | C37 | A- 3B | C155 | B- 4B C | C371 | B- 5C | C626 | A- 4A C | C752 A | A- 2A C918 | B- 2B | CN102 | B- 4A L | .7 | A- 3B | L610 | A- 3A | | |
| Q304 | A- 4C | D903 | | R84 | A- 3A | R321 | A- 3C | R533 | | R773 A- | | B- 1B | C38 | | C156 | | C372 | B- 5C | C627 | A-4A C | C754 A | A- 2A C919 | B- 1B | CN106 | B- 5B L | | | L611 | A- 4A | | |
| | | | | _ | | _ | | _ | | | | | | | | | _ | | | | _ | | _ | | | | | | | | |

■ MODULE (BT/GPS) UNIT (XC2-0031-80 (NX-5700(K), NX-5700B(F), NX-5700B(K)), XC2-0040-10 (NX-5700(K), NX-5700(E), NX-5700B(K)))

--- Component side view (J7C-0037-00) ------ Foil side view (J7C-0037-00) ---0 R9 0 0 0 © H H H H CN2 0 0 0 0 0 0 (0) ເຄ □ □ R15 C23 0 ☐ ☐ C24 В В C2 C44 C49 C50 C50 C7 C7 C66 R22 IC6 CN8 (0)R16 XC2-003/004 CIF CIF CN4 R19

O D D C27

E D D C27

E D D C27 J7C-0037 0 DO -00 R240000 00 00 C68 P 000 00 11 000 0 0 005 0 0 0 0 00000 Α Α 0 0 00 0 0 0 3 3 2 1 1 A-1C ADDRESS TABLE OF BOARD PARTS Side $\square \mid \sqsubseteq Y$ axis Each address may have an address error by one interval. CAPACITOR A- 2B A- 2B B- 1B B- 1B B- 3B B- 3B B- 3A A- 1B B- 3B B- 2A B- 2B A- 1B B- 3A B- 3B B- 3A A- 2B B- 3A A- 1B B- 2B A- 2B A- 1B A- 1B B- 3A B- 3A B- 2B C68 B- 3B B- 3B B- 1B A- 2A B- 1B B- 1B A- 1B A- 1B OTHER B- 1B B- 3A TRANSISTOR A- 1B A- 2B

A- 2B

B- 1B A- 2B B- 3A

B- 1B B- 1A

B- 2A

A- 1B B- 2A

B- 1B

B- 1B

B- 2A B- 3A

B- 3A

R29

A- 1B

A- 2B A- 1B

A- 1B

A- 1B A- 1B

A- 2B

A- 1B A- 1B

A- 1B

A- 2B

C32 C33 C34

C35 C36 C37 C38 C39 C40 C44 A- 2B

A- 2B A- 2B

A- 2B A- 2B

A- 1B A- 2B

B- 1A

B- 3B

CN8 CN9 A- 2B

B- 3B

B- 2B A- 2B

B- 1A

A- 1A B- 2A

B- 1B

B- 2B

B- 1A

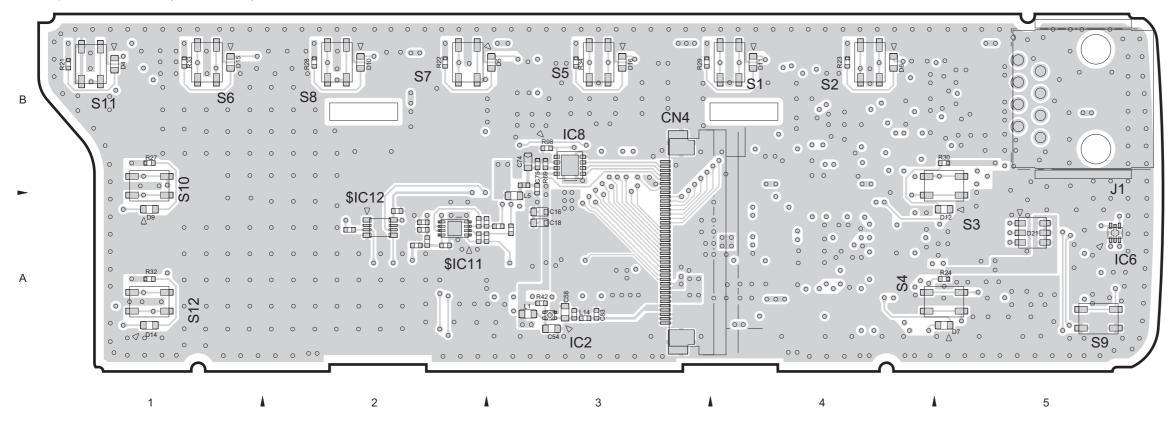
A- 2B

A- 1B A- 2B

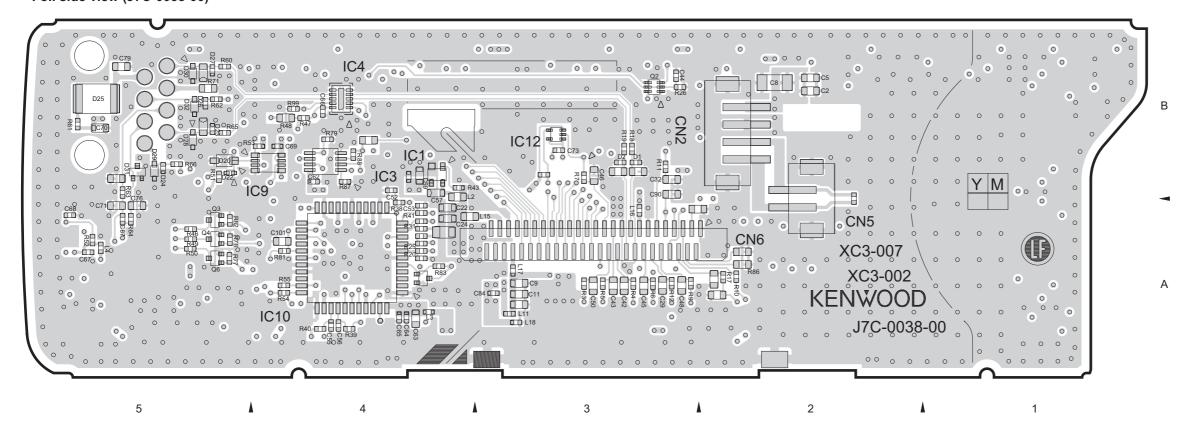
B- 3B A- 2A

■ SUB (DISPLAY) UNIT (XC3-0020-20 (NX-5700(K)), XC3-0070-20 (NX-5700(K), NX-5700(E)))

--- Component side view (J7C-0038-00) ---



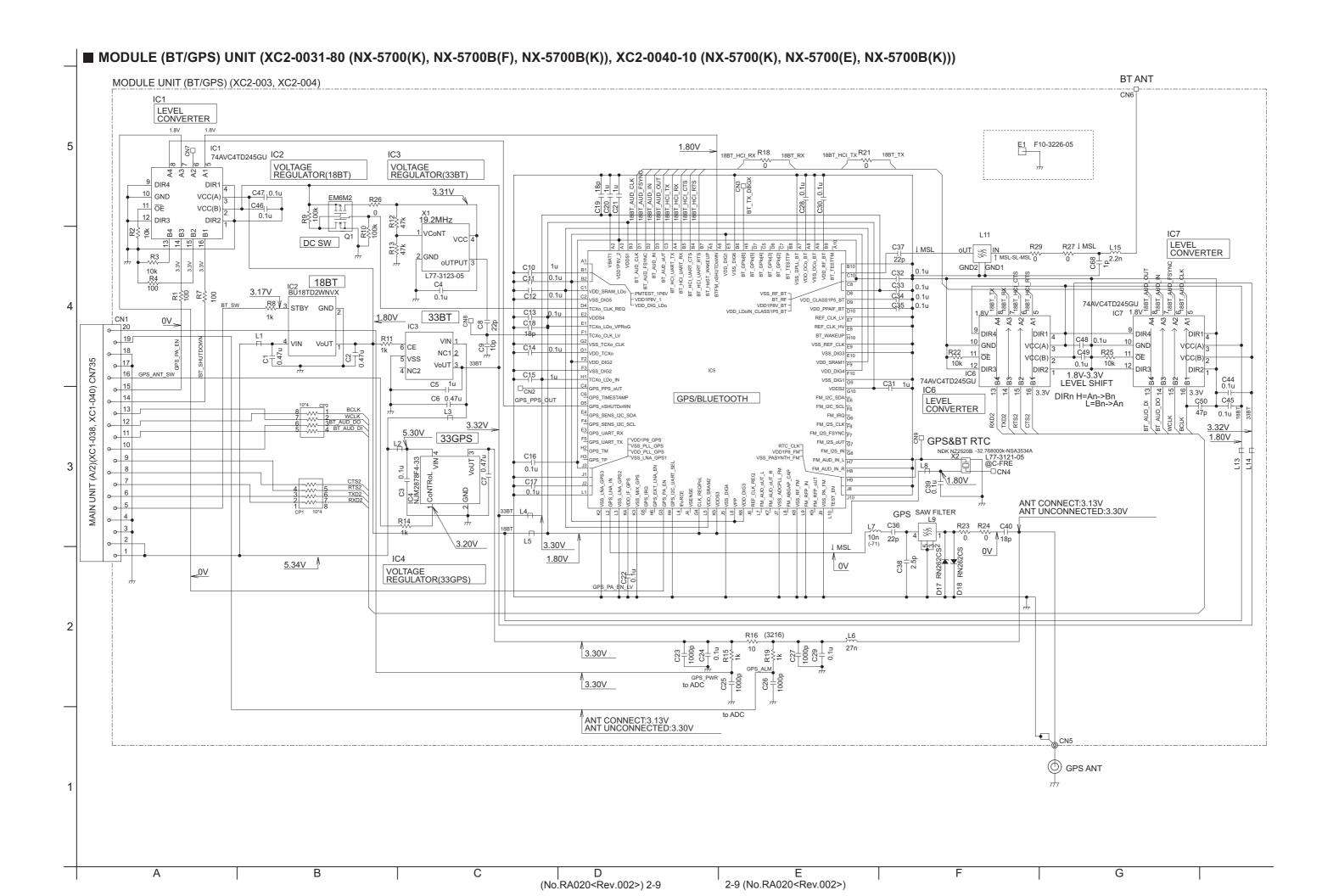
--- Foil side view (J7C-0038-00) ---

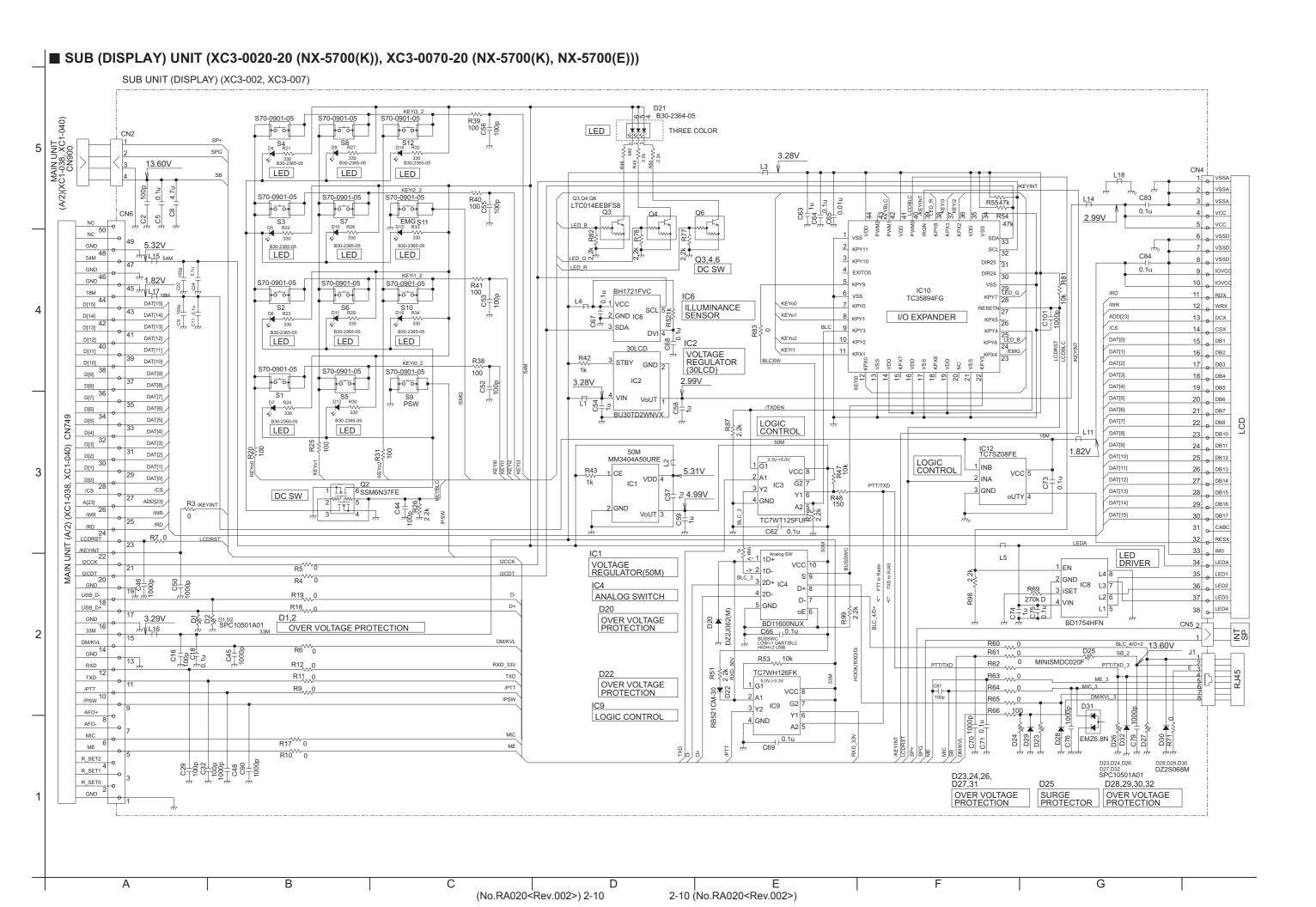


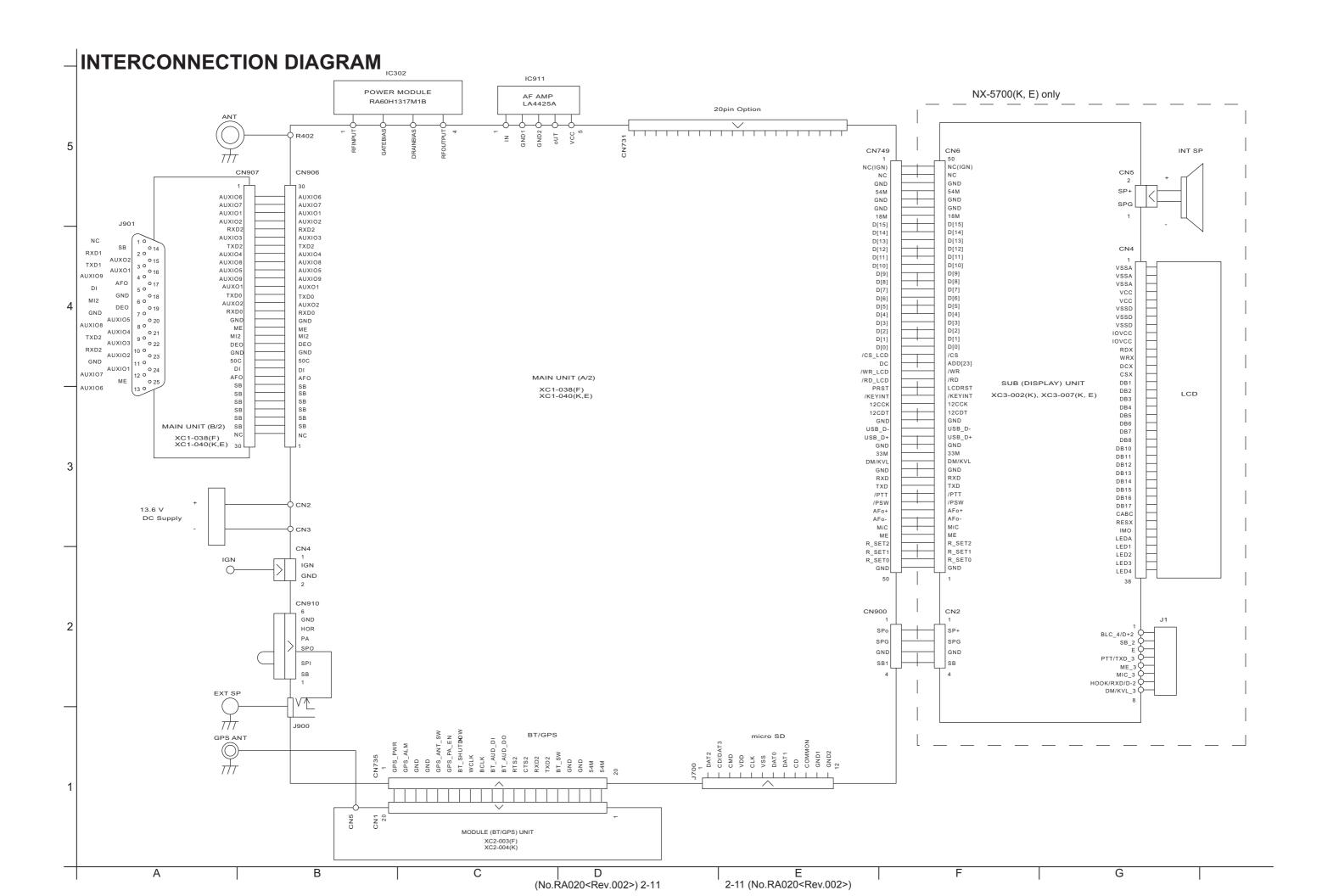
ADDRESS TABLE OF BOARD PARTS
 Each address may have an address error

A-1C Side — Y axis X axis

| REF.NO. | LOCATION | REF.NO. | LOCATION | REF.NO. | |
|------------|----------------|------------|----------------|------------|----------------|
| C | D :- | R52 | B- 5A | S7 | A- 2B |
| C1 | B- 4B | R53 | B- 4B | S8 | A- 2B |
| C2 | A- 3A | R54 | B- 4A | S9 | A- 5A |
| C3 | B- 4B | R55 | B- 4A | S10 | A- 1B |
| C4 C6 | B- 4B A- 5A | R60 | B- 5B B- 5B | S11 S12 | A- 1B A- 1A |
| C8 | A- 3A A- 3B | R61 R62 | B- 5B | 312 | A- IA |
| Co C9 | B- 4B | R63 | B- 5B | J1 | A- 5B |
| C10 | B- 4A | R64 | B- 5A | 31 | V- 2D |
| C12 | B- 3B | R65 | B- 5B | L1 | A- 3A |
| 012 | D 0D | R66 | B- 5B | L2 | B- 4B |
| RANS | ISTOR | R69 | A- 3B | L3 | B- 4A |
| | | R71 | B- 5B | L4 | B- 5A |
| 22 | B- 3B | R77 | B- 5A | L5 | A- 3A |
| 23 | B- 5A | R78 | B- 5A | L11 | B- 3A |
| 24 | B- 5A | R79 | B- 4B | L14 | A- 3A |
| 26 | B- 5A | R81 | B- 4A | L15 | B- 4A |
| | | R82 | B- 5A | L16 | B- 3A |
| DIODE | D 0D | R83 | B- 4A | L17 | B- 3A |
| 01 | B- 3B | R86 | B- 2A | L18 | B- 3A |
| 02 | B- 3B | R87 | B- 4B | | |
|)4)5 | A- 1B A- 3B | R88 R98 | B- 4B A- 3B | | |
| 06 | A- 3B A- 4B | R99 | B- 4B | | |
|)7 | A- 5A | . 100 | טד ט | | |
| 09 | A- 1A | CAPAC | ITOR | | |
| 010 | A- 2B | 1 | | | |
| 011 | A- 4B | C2 | B- 2B | | |
| 012 | A- 5A | C5 | B- 2B | | |
| 014 | A- 1A | C8 | B- 2B | | |
| 015 | A- 1B | C9 | B- 3A | | |
| 016 | A- 3B | C11 | B- 3A | | |
| 020 | B- 5B | C16 | A- 3A | | |
| 021 | A- 5A | C18 | A- 3A | | |
| 022 | B- 5B | C22 | B- 4A | | |
| 023 | B- 5B | C24 | B- 4A | | |
|)24)25 | B- 5B B- 5B | C29 | B- 3A B- 3B | | |
| 026 | B- 5B | C32 C42 | B- 3A | | |
| 027 | B- 5B | C43 | B- 3A | | |
| 028 | B- 5B | C44 | B- 3B | | |
| 029 | B- 5B | C45 | B- 3A | | |
| 030 | B- 5B | C46 | B- 3B | | |
| 031 | B- 5B | C48 | B- 3A | | |
| 032 | B- 5B | C50 | B- 3A | | |
| | | C52 | B- 4B | | |
| RESIST | | C53 | B- 4A | | |
| 3 | B- 3A | C54 | A- 3A | | |
| R4 | B- 3A | C55 | B- 4A | | |
| R5 | B- 3A | C56 | B- 4A | | |
| R6 | B- 3A | C57 | B- 4B | | |
| R7 R9 | B- 3B B- 3A | C58 C59 | A- 3A B- 4B | | |
| R10 | B- 2A | C62 | B- 4B | | |
| R11 | B- 3B | C63 | B- 4A | | |
| R12 | B- 3A | C64 | B- 4A | | |
| R17 | B- 2A | C65 | B- 4A | | |
| R18 | B- 3B | C66 | B- 4B | | |
| R19 | B- 3B | C67 | B- 5A | | |
| R20 | B- 4A | C68 | B- 5A | | |
| R21 | A- 1B | C69 | B- 4B | | |
| R22 | A- 2B | C70 | B- 5B | | |
| R23 | A- 4B | C71 | B- 5A | | |
| R24 | A- 5A | C73 | B- 3B | | |
| R25 | B- 4A | C74 | A- 3B | | |
| R26 | B- 3B Δ- 1B | C75 | A- 3B Β- 5Δ | | |
| R27 R28 | A- 1B A- 2B | C76 C79 | B- 5A B- 5B | | |
| R20 R29 | A- 2B A- 3B | C83 | A- 3A | | |
| R30 | A- 5B | C84 | B- 3A | | |
| R31 | B- 4A | C87 | B- 5A | | |
| R32 | A- 1A | C90 | B- 3B | | |
| R33 | A- 1B | C101 | B- 4A | | |
| R34 | A- 3B | | | | |
| R38 | B- 4A | OTHER | | | |
| R39 | B- 4A | CN2 | B- 2B | | |
| R40 | B- 4A | CN4 | A- 3A | | |
| R41 | B- 4A | CN5 | B- 2B | | |
| R42 | A- 3A | CN6 | B- 3A | | |
| R43 | B- 4B | 04 | A 4- | | |
| R46 | B- 5A | S1 | A- 4B | | |
| R47 | B- 4B | S2 | A- 4B | | |
| R48 | B- 4B | S3 | A- 5B | | |
| R49 | B- 5A | S4 | A- 5A | | |
| R50 R51 | B- 5A B- 5B | S5 S6 | A- 3B A- 1B | | |
| | 5 55 | | ,, ID | | |
| | | | | | |

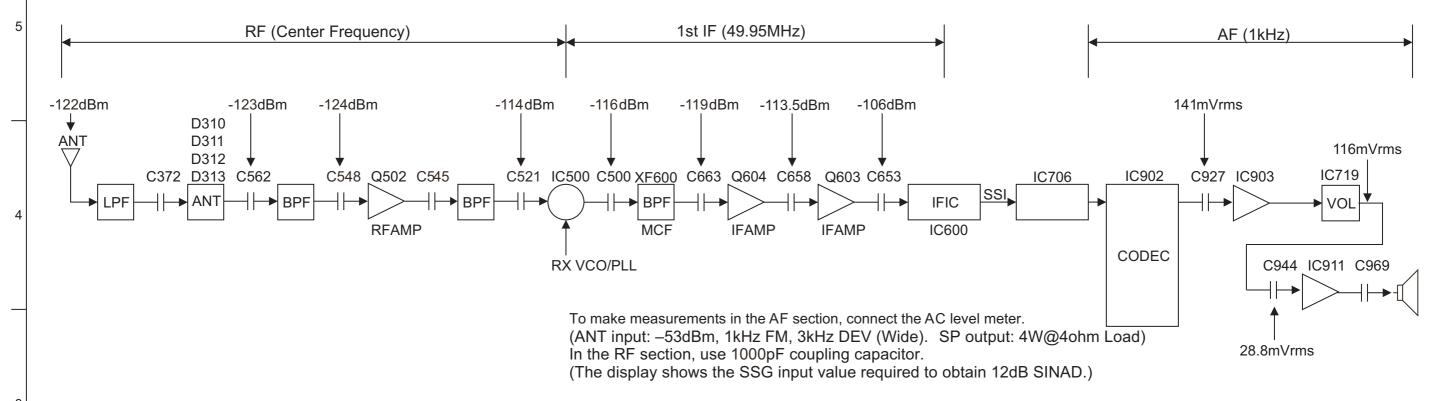


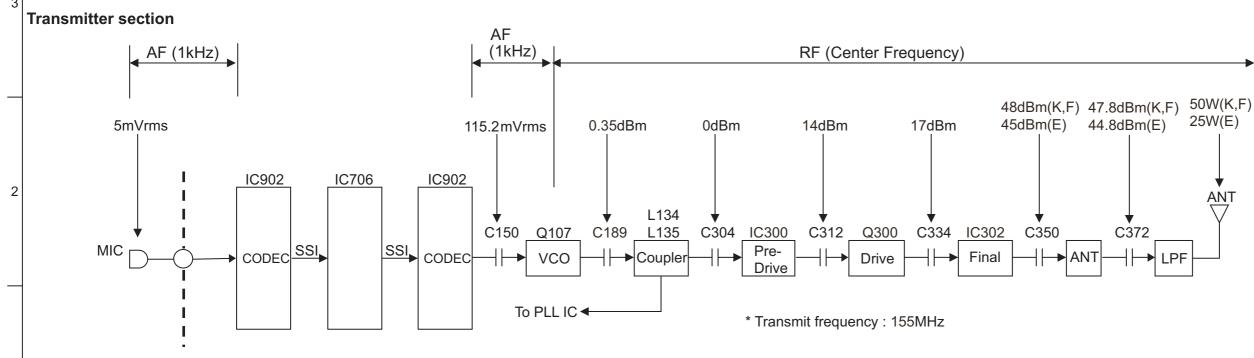




LEVEL DIAGRAM







(No.RA020 < Rev.002 >) 2-12

2-12 (No.RA020<Rev.002>)

PARTS LIST

[NX-5700,NX-5700(B)]

* SAFETY PRECAUTION

Parts identified by the \triangle symbol are critical for safety. Replace only with specified part numbers.

* BEWARE OF BOGUS PARTS

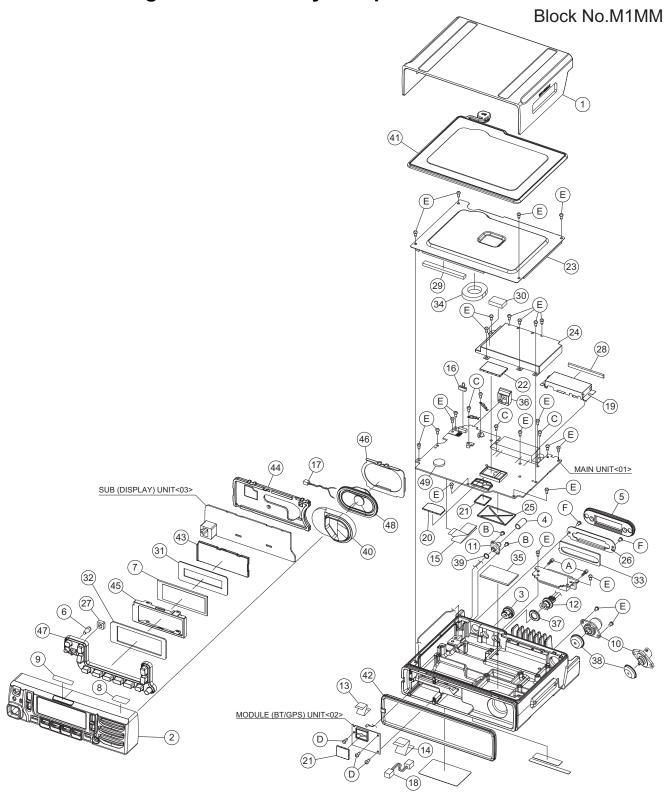
Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine parts be used.

* (x) in a description column shows the number of the used part.

- Contents -

| Exploded view of general assembly and parts list | 3-2 |
|--|------|
| Electrical parts list | 3-4 |
| Packing materials and accessories parts list | 3-17 |

Exploded view of general assembly and parts list



Block No. [M][1][M][M]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|----------------------------|--------------------------------------|--|---|
| 1 2 | A0C-0034-00 A6C-0003-20 | PLASTIC CABINET PANEL ASSY | | NX-5700(K),NX-5700(E) |
| 3 4 | B09-0681-03 B09-0754-05 | CAP CAP | KAP-2 SMA | |
| 5 | B0K-0004-00 | CAP | D-SUB | |
| 6 7 | B1B-0017-00 | ILL.GUIDE | Light Sensor | NX-5700(K),NX-5700(E) |
| 8 | B38-0966-05 B4B-0008-00 | LCD ASSY CAUTION STICKER | 2.55inch FCC,PANEL | NX-5700(K),NX-5700(E) NX-5700(K) |
| 9 | B4D-0021-00 | BADGE | KENWOOD | NX-5700(K),NX-5700(E) |
| 10 | E04-0167-15 | C.RECEPTACLE-M | ANT | NX-5700(B)(F),NX-5700(K),NX-5700(B)(K) |
| 10 11 | E04-0454-15 E0E-0003-00 | C.RECEPTACLE-BN C.RECEPTACLE-SM | ANT GPS | NX-5700(E) |
| 12 | E30-7520-45 | DC CORD | 51.5 | |
| 13 | E3F-0017-00 | FLAT CABLE | 20P BT/GPS | |
| 14 15 | E3F-0019-00 E3F-0021-10 | FLAT CABLE FLAT CABLE | 50P TO HEAD 30P D-SUB | |
| 16 | E37-1118-05 | LEAD.WIRE W.C. | SHORT CABLE | |
| 17 | E37-1693-05 | LEAD.WIRE W.C. | SP 2pin 6cm | NX-5700(K),NX-5700(E) |
| 18 19 | E3H-0008-00 F10-3112-13 | LEAD.WIRE W.C. SHIELDING CASE | 4P TO HEAD PM | |
| 20 | F10-3223-05 | SHIELDING CASE SHIELDING COVER | BLS(IFIC) | |
| 21 | F10-3225-05 | SHIELDING COVER | BLS(BT/GPS,DCDC54M)(x2) | |
| 22 23 | F10-3243-15 F1A-0003-00 | SHIELDING COVER SHIELDING PLATE | BLS(PLL IC) TOP | |
| 24 | F1B-0013-00 | SHIELDING CASE | FINAL | |
| 25 | F1B-0021-00 | SHIELDING COVER | BLS(VCO) | |
| 26 27 | F1E-0001-00 F1E-0002-00 | SHIELDING PLATE SHADE | D-SUB TX-Busy | NV 5700/K) NV 5700/E) |
| 28 | G13-2101-04 | CONDUCT CUSHION | PM | NX-5700(K),NX-5700(E) |
| 29 | G13-1837-04 | CUSHION | ABOVE 50P FFC | |
| 30 | G13-2153-04 | CONDUCT CUSHION CUSHION | FINAL | NV 5700(K) NV 5700(F) |
| 31 32 | G1D-0011-00 G1D-0012-10 | CUSHION | LCD-HOLDER LCD-F.GLASS | NX-5700(K),NX-5700(E) NX-5700(K),NX-5700(E) |
| 33 | G1D-0018-00 | CUSHION | D-SUB | |
| 34 | G1D-0028-00 | CUSHION | DC SCREW | |
| 35 36 | G1D-0049-00 G53-1616-13 | CUSHION PACKING | VCO PHONE JACK | |
| 37 | G53-1643-04 | PACKING | DC CORD | |
| 38 | G53-1662-04 | PACKING | ANT(M) | NX-5700(B)(F),NX-5700(K),NX-5700(B)(K) |
| 38 39 | G53-1675-04 G53-1768-04 | PACKING PACKING | ANT(BNC) SMA | NX-5700(E) |
| 40 | G5D-0053-00 | PACKING | SP | NX-5700(K),NX-5700(E) |
| 41 | G5D-0016-00 | PACKING | TOP | |
| 42 43 | G5D-0017-00 J1K-0018-00 | PACKING HOLDER | FRONT LCD | NX-5700(K),NX-5700(E) |
| 44 | J1K-0019-00 | HOLDER | PCB PANEL | NX-5700(K),NX-5700(E) |
| 45 | J2B-0021-00 | MOUNTING | LCD | NX-5700(K),NX-5700(E) |
| 46 47 | J2B-0023-00 K2K-0100-10 | MOUNTING KEY TOP | SP | NX-5700(K),NX-5700(E) NX-5700(K),NX-5700(E) |
| 48 | T07-0810-05 | SPEAKER | | NX-5700(K),NX-5700(E) |
| 49 | W09-0971-05 | LITHIUM CELL | TXRX UNIT | |
| A B | N09-2292-05 | HEX.HEAD SCREW | D-SUB(x2) | |
| C | N30-2606-48 N67-3008-48 | P.HEAD M.SCREW P.H.SEMS SCREW | SMA(x2) DC,PM(x4) | |
| D | N83-2005-48 | P.HEAD T.SCREW | BT/GPS UNIT(x3) | |
| E F | N87-2608-48 | BR.HEAD T.SCREW | (x24) D-SUB(x2) | |
| - | N89-2606-43 XC1-0381-81 | BI.HEAD T.SCREW SERVICE MAIN UNIT | SERVICE UNIT *Produced in Japan | NX-5700(B)(F),NX-5700(K),NX-5700(B)(K) |
| - | XC1-0400-11 | SERVICE MAIN UNIT | SERVICE UNIT *Produced in Malaysi | a NX-5700(K),NX-5700(B)(K),NX-5700(E) |
| - | XC2-0031-80 | MODULE UNIT | BT/GPS *Produced in Japan | NX-5700(B)(F),NX-5700(K),NX-5700(B)(K) |
| - | XC2-0040-10 XC3-0020-20 | MODULE UNIT SUB UNIT | BT/GPS *Produced in Malaysia DISPLAY *Produced in Japan | NX-5700(K),NX-5700(B)(K),NX-5700(E) NX-5700(K) |
| - | XC3-0070-20 | SUB UNIT | DISPLAY *Produced in Malaysia | NX-5700(K),NX-5700(E) |

Electrical parts list MAIN UNIT

XC1-0381-80(NX-5700B_F, NX-5700_K, NX-5700B_K) XC1-0400-10(NX-5700_K, NX-5700B_K, NX-5700_E) *Note: This part cannot be replaced. Therefore, this part is not supplied as a service part.

| | his part is n | | - | | Q7 Q8 | LTC014TEBFS8 LSCR523EBFS8 | DIGI TRANSISTOR TRANSISTOR |
|----------------|------------------|-------------------|-------------|----------------|----------|------------------------------|-------------------------------|
| | pa | ot oupplied | | - | Q9 | LSAR523UBFS8 | TRANSISTOR |
| | | | Block I | No. [0][1] | Q10 | MTM981400BF | FET |
| _ | | | | | Q11 | LTC014EEBFS8 | DIGI TRANSISTOR |
| ፟ Symbol No. | Part No. | Part Name | Description | Local | Q12 | EM6M2 | FET |
| | | | | | Q14 | EM6M2 | FET BLOCK TRANSPORTER |
| 104 | | 110010 | *** (| | Q15 | LTC014EEBFS8 | DIGI TRANSISTOR |
| IC1 | | MOS IC | *Note | | Q16 | SSM3J334R | FET |
| IC2 | MSP430G25KGCA | | | | Q17 | LTC014EEBFS8 | DIGI TRANSISTOR |
| IC3 | XC6215B122N-G | MOS IC | | | Q18 | SSM3J334R | FET |
| IC4 | NJM2878F4-33 | BIPOLAR IC | | | Q81 | SSM3J15FS | FET |
| IC5 | XC6223D331P-G | MOS IC | *NI-4- | | Q100 | LTA014YEBFS8 | DIGI TRANSISTOR |
| IC6 | | MOS IC | *Note | | Q101 | SSM3K15AMFV | FET |
| IC7 | XC6223H331P-G | ANALOG IC | | | Q102 | EMD9 | TRANSISTOR |
| IC8 | TPS54240DGQ | MOS IC | | | Q103 | EM6M2 | FET |
| IC9 | XC8102AA07-G | MOS IC | *Nloto | | Q104 | DSC9A01/T/ | TRANSISTOR |
| IC10 | L VDC011N140E460 | MOS IC | *Note | | Q105 | MCH3914-H/7/ | FET |
| IC11 | LXDC2HN18F163 | MOS IC | | | Q106 | 2SC5108F/Y/ | TRANSISTOR |
| IC12 | NJM2878F4-33 | BIPOLAR IC | | | Q107 | MCH3914-H/7/ | FET |
| IC13 | TPS61041DRVR | ANALOG IC | | | Q108 | EM6M2 | FET |
| IC14 | XC6223H331P-G | ANALOG IC | | | Q109 | SSM3J15FS | FET |
| IC15 | BA00DD0WHFP | MOS IC | | | Q110 | 2SC5108F/Y/ | TRANSISTOR |
| IC16 | XC6209B502P-G | MOS IC | **! (| | Q111 | 2SC5108F/Y/ | TRANSISTOR |
| IC17 | | MOS IC | *Note | | Q112 | EM6M2 | FET |
| IC18 | XC61CN5002N-G | MOS IC | | | Q300 | RD01MUS2-T113 | FET |
| IC100 | SKY72310362LF | MOS IC | | | Q301 | LSCR523EBFS8 | TRANSISTOR |
| IC101 | TC7SH17FUF | MOS IC | | | Q302 | LSCR523EBFS8 | TRANSISTOR |
| IC102 | BA2904FVM | MOS IC | | | Q303 | LSCR523EBFS8 | TRANSISTOR |
| IC300 | | MOS IC | *Note | | Q304 | EM6M2 | FET |
| IC301 | NJM12904RB1 | BIPOLAR IC | 514 | | Q305 | SSM3K15AMFV | FET |
| IC302 | RA60H1317M1B | MOS IC | PM | | Q306 | LTC023JEBFS8 | DIGI TRANSISTOR |
| IC303 | NJM12904RB1 | BIPOLAR IC | | | Q500 | 2SC5108F/Y/ | TRANSISTOR |
| IC304 | AD8315ARM | MOS IC | | | Q502 | MT3S111 | TRANSISTOR |
| IC305 | TC7W53FKF | MOS IC | | | Q600 | MCH3914-H/8/ | FET |
| IC500 | AK1224 | MOS IC | | | Q601 | LTC023JEBFS8 | DIGI TRANSISTOR |
| IC501 | BA2904FVM | MOS IC | | | Q602 | LSCR523EBFS8 | TRANSISTOR |
| IC600 | AD9864BCPZRL | MOS IC | | | Q603 | 2SC5066F/O/ | TRANSISTOR |
| IC701 | | ROM IC | *Note | | Q604 | BB506CFS-H | FET |
| IC702 | | SRAM IC | *Note | | Q700 | 2SC4617/S/ | TRANSISTOR |
| IC703 | CDC3S04YFF | MOS IC | | | Q701 | SSM3K15AMFV | FET |
| IC704 | TC7SZ08FE | MOS IC | | | Q703 | SSM3K15AMFV | FET |
| IC705 | TC7WH126FU-F | MOS IC | | | Q704 | SSM3K15AMFV | FET |
| IC706 | | MPU IC | *Note | NX-5700(B)(F) | Q705 | LTC014TEBFS8 | DIGI TRANSISTOR |
| | | | | NX-5700(K), | Q706 | EMD9 | TRANSISTOR |
| IC706 | | MPU IC | *Note | NX-5700(B)(K), | Q900 | SSM3K335R | FET |
| | | | | NX-5700(E) | Q901 | SSM3J332R | FET |
| IC707 | BD11600NUX | MOS IC | | | Q902 | DSC9A01/T/ | TRANSISTOR |
| IC708 | BD11600NUX | MOS IC | | | Q905 | SSM3K335R | FET |
| IC709 | TC7SET125FUF | MOS IC | | | Q906 | SSM3J332R | FET |
| IC710 | TC7SZ08FE | MOS IC | | | Q907 | SSM3K335R | FET |
| IC711 | | MPU IC | *Note | | Q908 | SSM3K335R | FET |
| IC712 | ADS7961SRHB | MOS IC | | | 5.4 | D701105 " " | TEUED DIODE |
| IC714 | BD11600NUX | MOS IC | | | D1 | DZ2J180(M) | ZENER DIODE |
| IC715 | DAC124S085CIS | MOS IC | | | D2 | RB520SM-30 | DIODE |
| IC719 | R2A20178NP | MCU IC | | | D3 | EDZV8.2B | ZENER DIODE |
| IC720 | XC61CN5002N-G | MOS IC | | | D4 | RB521CM-30 | DIODE |
| IC900 | TC7SET08FUF | MOS IC | | | D5 | 22ZR-10D | SURGE ABSORBER |
| IC901 | BU7242NUX | MOS IC | | | D6 | RB520SM-30 | DIODE |
| IC902 | TLV32AIC3104I | MOS IC | | | D7 | RB521CM-30 | DIODE |
| IC903 | BU7242NUX | MOS IC | | | D8 | RB521CM-30 | DIODE |
| IC904 | TC7SET125FUF | MOS IC | | | D9 | RB521CM-30 | DIODE |
| IC905 | TC7WT125FUF | MOS IC | | | D10 | DSA3A1 | DIODE |
| IC906 | TC7WBD125AFK | MOS IC | | | D11 | DZ2S056(M) | ZENER DIODE |
| IC907 | BD11600NUX | MOS IC | | | D12 | RB521CM-30 | DIODE |
| IC908 | TC7WH14FK-F | MOS IC | | | D13 | 1SS400SM | DIODE |
| IC909 | ADM3202ARUZ | MOS IC | | | D14 | RB060M-40 | DIODE |
| IC910 | PCA9555AHF | MOS IC | | | D15 | DB2J40700 | DIODE |
| | LA4425A-E | MOS IC | AUDIO AMP | | D16 | RB521CM-30 | DIODE |
| IC911 | | | | | D17 | RB521CM-30 | DIODE |
| | | MOS IC | | | 011 | | |
| IC911 IC912 | TC7SET08FUF | MOS IC | | | D100 | EDZV8.2B | ZENER DIODE |
| | | MOS IC TRANSISTOR | | | | | |

⚠ Symbol No. Part No.

Q4

Q5

Q6

LTC014EEBFS8

MTM981400BF

LTC014EEBFS8

Part Name

FET

DIGI TRANSISTOR

DIGI TRANSISTOR

Description

| ⚠ Symbol No. | Part No. | Part Name | Description | Local | ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|--------------------------------|----------------------------------|-----------------------------|-------|--------------|--------------------------------|----------------------------|-----------------------------|-------|
| D103 | SMV1705-079LF | VARI CAP DIODE | | | C8 | CK73HBB1H102K | | 1000pF 50V K | |
| D104 | SMV1212-079LF | VARI CAP DIODE | | | C9 | CK73HBB1H102K | | 1000pF 50V K | |
| D106 D107 | SMV1801-079LF SMV1801-079LF | VARI CAP DIODE VARI CAP DIODE | | | C10 C11 | CK73FB1C106K CK73HB1E104K | C CAPACITOR C CAPACITOR | 10uF 16V K 0.10uF 25V K | |
| D107 | SMV1801-079LF | VARI CAP DIODE | | | C12 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| D109 | SMV1801-079LF | VARI CAP DIODE | | | C13 | CK73HB1A474K | C CAPACITOR | 0.47uF 10V K | |
| D110 | SMV1801-079LF | VARI CAP DIODE | | | C16 | CK73HB1H103K | C CAPACITOR | 10000pF 50V I | < |
| D111 | SMV1801-079LF | VARI CAP DIODE | | | C18 | CC73HCH1H471J | C CAPACITOR | 470pF 50V J | |
| D113 D114 | 1SS400SM RN262CS | DIODE DIODE | | | C21 C24 | CK73HB1C105K CK73HBB1H102K | C CAPACITOR | 1.0uF 16V K 1000pF 50V K | |
| D115 | RN262CS | DIODE | | | C25 | CK73HBB1H102K | | 1000pF 50V K | |
| D117 | SMV1130-079LF | VARI CAP DIODE | | | C30 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | |
| D300 | RN262CS | DIODE | | | C31 | CK73EB1H475KM | | 4.7uF 50V M | |
| D301 D302 | RB520SM-30 DZ2S056(M) | DIODE ZENER DIODE | | | C32 C33 | CK73GB1E105K CK73EB1H475KM | C CAPACITOR | 1uF 25V K 4.7uF 50V M | |
| D306 | RN142S | DIODE | | | C34 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| D307 | DZ2S056(M) | ZENER DIODE | | | C35 | CK73HBB1H102K | | 1000pF 50V K | |
| D309 | RB706F-40 | DIODE | | | C36 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| D310 D311 | L8104 L8104 | DIODE DIODE | | | C37 C38 | CK73FB1C106K CC73HCH1H471J | C CAPACITOR C CAPACITOR | 10uF 16V K 470pF 50V J | |
| D311 | JDP2S12CR | DIODE | | | C39 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | |
| D313 | JDP2S12CR | DIODE | | | C40 | CK73HB1H103K | C CAPACITOR | 10000pF 50V I | < |
| D314 | RN142S | DIODE | | | C41 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| D315 | RN142S | DIODE | | | C43 C44 | CK73GXR1C225K | | 2.2uF 16V K | |
| D500 D501 | RN262CS SMV1801-079LF | DIODE VARI CAP DIODE | | | C44 C45 | CC73HCH1H471J CK73HB1C105K | C CAPACITOR C CAPACITOR | 470pF 50V J 1.0uF 16V K | |
| D502 | SMV1801-079LF | VARI CAP DIODE | | | C46 | CK73GXR1C225K | | 2.2uF 16V K | |
| D503 | SMV1801-079LF | VARI CAP DIODE | | | C47 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| D504 | SMV1801-079LF | VARI CAP DIODE | | | C48 | CK73GXR1C225K | | 2.2uF 16V K | |
| D505 D506 | BBY56-02V BBY56-02V | VARI CAP DIODE VARI CAP DIODE | | | C49 C50 | CK73HB1C105K CK73HBB1H102K | C CAPACITOR | 1.0uF 16V K 1000pF 50V K | |
| D507 | BBY56-02V | VARI CAP DIODE | | | C50 | CK73HBB1H332K | | 3300pF 50V K | |
| D508 | RN142S | DIODE | | | C52 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| D509 | RN142S | DIODE | | | C53 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| D510 D600 | BBY56-02V | VARI CAP DIODE | | | C54 C55 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| D600 D601 | SMV1705-079LF SMV1705-079LF | VARI CAP DIODE VARI CAP DIODE | | | C56 | CC73HCH1H471J CK73HB1H392K | C CAPACITOR C CAPACITOR | 470pF 50V J 3900pF 50V K | |
| D602 | DA3S101F | DIODE ARRAY | | | C57 | CK73FXR1E475K | | 4.7uF 25V K | |
| D700 | RB521CM-30 | DIODE | | | C58 | CC73HCH1H220G | C CAPACITOR | 22pF 50V G | |
| D701 | RB521CM-30 | DIODE | | | C59 | CK73FB1C106K | C CAPACITOR | 10uF 16V K | |
| D702 D703 | SPC10501A01 SPC10501A01 | VARISTOR VARISTOR | | | C60 C61 | CK73FB1C106K CC73HCH1H471J | C CAPACITOR C CAPACITOR | 10uF 16V K 470pF 50V J | |
| D703 | SPC10501A01 | VARISTOR | | | C62 | CK73GXR1C225K | | 2.2uF 16V K | |
| D705 | SPC10501A01 | VARISTOR | | | C63 | CK73HBB1H102K | C CAPACITOR | 1000pF 50V K | |
| D706 | SPC10501A01 | VARISTOR | | | C64 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | |
| D708 D710 | EDZV8.2B RB521CM-30 | ZENER DIODE DIODE | | | C65 C66 | CK73FB1C106K CK73HB1C105K | C CAPACITOR C CAPACITOR | 10uF 16V K 1.0uF 16V K | |
| D710 D711 | RB521CM-30 | DIODE | | | C67 | CK73FB1C105K | C CAPACITOR | 10uF 16V K | |
| D801 | RB521CM-30 | DIODE | | | C68 | CK73FXR1E475K | | 4.7uF 25V K | |
| D900 | DA3S101F | DIODE ARRAY | | | C69 | CK73GXR1C225K | | 2.2uF 16V K | |
| D903 D904 | DZ2S056(M) | ZENER DIODE MULTIPLE DIODE | | | C70 | CC73HCH1H391J | | 390pF 50V J | |
| D904 D905 | DA204U 1SS400SM | DIODE | | | C71 C72 | CC73HCH1H391J CK73EB1H475KM | | 390pF 50V J 4.7uF 50V M | |
| D906 | DZ2S056(M) | ZENER DIODE | | | C73 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| D907 | RB521CM-30 | DIODE | | | C74 | CK73GXR1C225K | | 2.2uF 16V K | |
| D908 | DA204U | MULTIPLE DIODE | | | C75 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | |
| D909 D910 | DA3S101F DA204U | DIODE ARRAY MULTIPLE DIODE | | | C76 C77 | CC73HCH1H471J CK73FXR1E475K | | 470pF 50V J 4.7uF 25V K | |
| D911 | DA204U | MULTIPLE DIODE | | | C78 | CK730DT1C476K | | 47uF 16V K | |
| D912 | DA204U | MULTIPLE DIODE | | | C80 | CK73GXR1H104K | | 0.1uF 50V K | |
| D913 | DA204U | MULTIPLE DIODE | | | C81 | CC73HCH1H470G | | 47pF 50V G | |
| D914 D915 | DA204U DA204U | MULTIPLE DIODE MULTIPLE DIODE | | | C82 C83 | CK73GXR1C225K | | 2.2uF 16V K | |
| D915 D916 | DA2J101 | DIODE | | | C84 | CK73HB1C105K CK73GXR1C225K | C CAPACITOR | 1.0uF 16V K 2.2uF 16V K | |
| D917 | DZ2J180(M) | ZENER DIODE | | | C85 | C92-0968-05 | E CAPACITOR | 470F 25V | |
| D918 | DA204U ` ´ | MULTIPLE DIODE | | | C100 | CK73HB1H103K | C CAPACITOR | 10000pF 50V I | < |
| D919 | DA204U | MULTIPLE DIODE | | | C101 | CC73HCH1H471J | | 470pF 50V J | |
| D920 D921 | DA204U DA2J101 | MULTIPLE DIODE DIODE | | | C102 C103 | CC73HCH1H100B CK73HB1H103K | C CAPACITOR C CAPACITOR | 10pF 50V B 10000pF 50V I | < |
| D921 | DZ2J180(M) | ZENER DIODE | | | C103 | CK73HB1H103K | C CAPACITOR | 10000pF 50V I | |
| D923 | DA204U | MULTIPLE DIODE | | | C106 | CC73HCH1H101J | | 100pF 50V J | |
| D924 | RB520SM-30 | DIODE | | | C107 | CC73HCH1H101J | C CAPACITOR | 100pF 50V J | |
| C4 | CV70LID4C40EV | CCADACITOD | 1 00 - 10 / 1/ | | C108 | CC73HCH1H101J | | 100pF 50V J | |
| C1 C2 | CK73HB1C105K CD04CK1E102M | C CAPACITOR E CAPACITOR | 1.0uF 16V K 1000uF 25V M | | C109 C110 | CC73HCH1H101J CC73HCH1H101J | | 100pF 50V J 100pF 50V J | |
| C3 | CK73HBB1H222K | | 2200pF 50V K | | C111 | CC73HCH1H101J | | 100pF 50V J | |
| C4 | CK73HBB1H102K | C CAPACITOR | 1000pF 50V k | | C112 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| C5 | CK73HBB1H102K | C CAPACITOR | 1000pF 50V k | | C113 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| | | | | | | | | | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local | ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|--------------------------------|----------------------------|------------------------------|-------|--------------|--------------------------------|----------------------------|--------------------------------|-------|
| C114 | CC73HCH1H101J | C CAPACITOR | 100pF 50V J | | C304 | CC73HCH1H680J | C CAPACITOR | 68pF 50V J | |
| C115 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | | C306 | CK73HBB1H102K | C CAPACITOR | 1000pF 50V K | |
| C116 C118 | CC73HCH1H101J CK73HB1H103K | C CAPACITOR | 100pF 50V J 10000pF 50V | K | C307 C308 | CK73HBB1H102K CK73HB1E473K | C CAPACITOR C CAPACITOR | 1000pF 50V K 0.047uF 25V K | , |
| C120 | CC73HCH1H101J | | 10000pF 50V J | | C309 | CK73HBB1H152K | | 1500pF 50V K | • |
| C121 | CC73HCH1H330G | C CAPACITOR | 33pF 50V G | | C310 | CC73HCH1H101J | C CAPACITOR | 100pF 50V J | |
| C124 | CC73HCH1H101J | | 100pF 50V J | | C311 | CC73HCH1H470G | | 47pF 50V G | |
| C125 C126 | CK73GB1H105K CC73HCH1H101J | C CAPACITOR | 1uF 50V K 100pF 50V J | | C312 C313 | CK73HBB1H102K CC73HCH1H220G | | 1000pF 50V K 22pF 50V G | |
| C127 | CK73FB1E224K | C CAPACITOR | 0.22uF 25V K | | C315 | CC73HCH1H390G | | 39pF 50V G | |
| C128 | CS77ABE1D100M | TA E CAPACITOR | 10uF 20V M | | C317 | CC73HCH1H220G | C CAPACITOR | 22pF 50V G | |
| C129 | CK73HBB1H102K | | 1000pF 50V K | | C318 | | C CAPACITOR | 9pF 50V B | |
| C131 C132 | CC730AD1H104J CC73HCH1H471J | C CAPACITOR | 0.1uF 50V J 470pF 50V J | | C319 C320 | CK73HBB1H102K CC73HCH1H101J | C CAPACITOR C CAPACITOR | 1000pF 50V K 100pF 50V J | |
| C133 | CC73HCH1H471J | | 470pF 50V J | | C321 | CK73HBB1H102K | | 1000pF 50V K | |
| C134 | CC73HCH1H471J | | 470pF 50V J | | C322 | CK73GBB1H102K | | 1000pF 50V K | |
| C135 C136 | CC73HCH1H471J CK73FB1H473K | | 470pF 50V J | , | C325 C327 | CC73GCH1H330J | C CAPACITOR | 33pF 50V J | , |
| C136 | CC73HCH1H101J | C CAPACITOR | 0.047uF 50V h 100pF 50V J | ` | C327 | CK73HB1H103K CK73GB1H183K | C CAPACITOR C CAPACITOR | 10000pF 50V h 0.018uF 50V K | |
| C138 | CC73HCH1H390G | | 39pF 50V G | | C329 | CK73HBB1H472K | | 4700pF 50V K | • |
| C139 | CC73HCH1H220G | | 22pF 50V G | | C330 | CK73HBB1H102K | C CAPACITOR | 1000pF 50V K | |
| C141 C142 | CC73HCH1H020B | | 2pF 50V B | | C331 C332 | CK73GBB1H102K | | 1000pF 50V K | |
| C142 C143 | CC73GCH1H151J CC73GCH1H331J | | 150pF 50V J 330pF 50V J | | C332 | CK73HBB1H472K CK73HBB1H332K | | 4700pF 50V K 3300pF 50V K | |
| C144 | CC73HCH1H030B | | 3pF 50V B | | C334 | CK73GBB1H102K | | 1000pF 50V K | |
| C145 | CC73HCH1H020B | | 2pF 50V B | | C335 | CK73GBB1H102K | | 1000pF 50V K | |
| C146 C147 | CK73HBB1H102K CK73HBB1H102K | | 1000pF 50V K | | C336 C338 | CC73HCH1H220G | | 22pF 50V G | |
| C147 C148 | CC73HCH1H220G | | 1000pF 50V K 22pF 50V G | | C340 | CC73HCH1H470G CC73HCH1H101J | | 47pF 50V G 100pF 50V J | |
| C149 | CC73HCH1H390G | | 39pF 50V G | | C341 | | C CAPACITOR | 100pF 50V J | |
| C150 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C343 | CK73HBB1H332K | | 3300pF 50V K | |
| C151 C152 | CC73HCH1H471J | | 470pF 50V J | | C345 C346 | CK73HBB1H102K | | 1000pF 50V K | , |
| C152 | CC73HCH1H030B CC73HCH1H060B | | 3pF 50V B 6pF 50V B | | C346 C347 | CK73HB1H103K CC73HCH1H101J | C CAPACITOR C CAPACITOR | 10000pF 50V h 100pF 50V J | \ |
| C154 | CC73HCH1H330G | | 33pF 50V G | | C348 | CK73HB1E473K | C CAPACITOR | 0.047uF 25V K | |
| C155 | CC73HCH1H390G | | 39pF 50V G | | C349 | CE32BY1E470M | E CAPACITOR | 47uF 25V M | |
| C156 C157 | CC73HCH1H471J | | 470pF 50V J | | C350 C351 | C93-0603-05 CK73HB1E333K | C CAPACITOR | 1000pF 500V | • |
| C157 | CC73HCH1H050B CC73HCH1H471J | | 5pF 50V B 470pF 50V J | | C353 | CC73GCH1H150G | C CAPACITOR C CAPACITOR | 0.033uF 25V K 15pF 50V G | • |
| C161 | CK73FB1C106K | C CAPACITOR | 10uF 16V K | | C354 | CC73GCH1H390J | C CAPACITOR | 39pF 50V J | |
| C162 | CC73HCH1HR75B | | 0.75pF 50V B | | C355 | CK73GB1H332K | C CAPACITOR | 3300pF 50V K | |
| C164 C165 | CK73HBB1H102K CC73HCH1H100B | | 1000pF 50V K 10pF 50V B | | C357 C359 | CK73HB1E104K CK73HBB1H102K | C CAPACITOR C CAPACITOR | 0.10uF 25V K 1000pF 50V K | |
| C166 | CC73HCH1H471J | | 470pF 50V J | | C360 | CK73GBB1H102K | C CAPACITOR | 1000pF 50V K | |
| C167 | CC73HCH1H150G | | 15pF 50V G | | C361 | CK73GBB1H102K | C CAPACITOR | 1000pF 50V K | |
| C168 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | | C362 | C93-0603-05 | C CAPACITOR | 1000pF 500V | |
| C169 C170 | CK73HB1H103K CK73HB1H103K | C CAPACITOR C CAPACITOR | 10000pF 50V 10000pF 50V | | C363 C365 | CK73GBB1H102K CK73HBB1H472K | | 1000pF 50V K 4700pF 50V K | |
| C171 | CC73HCH1H070B | | 7pF 50V B | | C367 | CK73GBB1H102K | | 1000pF 50V K | |
| C172 | CC73HCH1H090B | | 9pF 50V B | | C368 | CK73HBB1H102K | | 1000pF 50V K | |
| C173 | CK73HBB1H102K CK73HBB1H102K | | 1000pF 50V K | | C369 C370 | C93-1846-05 CK73HB1E104K | C CAPACITOR | 4pF 250V | |
| C174 C175 | CK73HBB1H102K | | 1000pF 50V K 1000pF 50V K | | C370 | CC73GCH1H120G | C CAPACITOR C CAPACITOR | 0.10uF 25V K 12pF 50V G | |
| C176 | CC73HCH1H471J | | 470pF 50V J | | C372 | C93-0571-05 | C CAPACITOR | 82pF 500V | |
| C177 | CC73HCH1H0R5B | | 0.5pF 50V B | | C373 | C93-1852-05 | C CAPACITOR | 6pF 250V | |
| C178 C179 | CC73HCH1H0R5B CC73HCH1H100B | | 0.5pF 50V B 10pF 50V B | | C374 C375 | CK73HBB1H472K C93-2041-05 | C CAPACITOR C CAPACITOR | 4700pF 50V K 11pF 500V | |
| C179 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C376 | C93-1852-05 | C CAPACITOR | 6pF 250V | |
| C181 | CC73HCH1H471J | C CAPACITOR | 470pF 50V J | | C377 | C93-2041-05 | C CAPACITOR | 11pF 500V | |
| C182 | CK73HBB1H102K | | 1000pF 50V K | | C378 | CK73HBB1H102K | | 1000pF 50V K | |
| C183 C187 | CK73HB1C105K CK73HBB1H102K | C CAPACITOR | 1.0uF 16V K 1000pF 50V K | | C379 C380 | C93-2031-05 C93-2035-05 | C CAPACITOR C CAPACITOR | 8pF 500V 9pF 500V | |
| C189 | CC73HCH1H220G | | 22pF 50V G | | C381 | C93-1863-05 | C CAPACITOR | 15pF 250V | |
| C190 | CC73HCH1H220G | | 22pF 50V G | | C382 | C93-1852-05 | C CAPACITOR | 6pF 250V | |
| C191 | CC73HCH1H151J | | 150pF 50V J | | C383 | C93-1852-05 | C CAPACITOR | 6pF 250V | |
| C192 C193 | CC73HCH1H120G CC73HCH1H120G | | 12pF 50V G 12pF 50V G | | C385 C387 | CK73HBB1H222K CC73HCH1H220J | C CAPACITOR C CAPACITOR | 2200pF 50V K 22pF 50V J | |
| C193 | CK73HBB1H102K | | 1000pF 50V K | | C388 | CC73HCH1H391J | C CAPACITOR | 390pF 50V J | |
| C195 | CK73HBB1H102K | C CAPACITOR | 1000pF 50V K | | C389 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| C196 | CK73HBB1H102K | | 1000pF 50V K | | C390 | C93-1852-05 | C CAPACITOR | 6pF 250V | |
| C197 C200 | CC73HCH1H330G CK73HBB1H102K | | 33pF 50V G 1000pF 50V K | | C391 C500 | C93-1838-05 CK73HB1H103K | C CAPACITOR C CAPACITOR | 2pF 250V 10000pF 50V k | (|
| C200 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C500 | CK73HBB1H103K | | 10000pi 30V i | |
| C202 | CC73HCH1H471J | C CAPACITOR | 470pF 50V J | | C502 | CK73HB1H103K | C CAPACITOR | 10000pF 50V k | (|
| C204 | CK73GB1H122K | C CAPACITOR | 1200pF 50V K | | C503 | CK73HBB1H102K | | 1000pF 50V K | |
| C300 C301 | CK73HBB1H102K CK73HBB1H102K | | 1000pF 50V K 1000pF 50V K | | C504 C506 | CK73HB1H103K CK73HBB1H102K | C CAPACITOR C CAPACITOR | 10000pF 50V k 1000pF 50V K | |
| C302 | CC73GCH1H020B | | 2pF 50V B | | C507 | CC73HCH1H471J | | 470pF 50V J | |
| | | | | | | | | | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local | ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|--------------------------------|----------------------------|-------------------------------|-------|--------------|--------------------------------|----------------------------|-------------------------------|-------|
| C508 | CC73HCH1H030B | C CAPACITOR | 3pF 50V B | | C635 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C509 | CK73HBB1H102K | | 1000pF 50V K | | C636 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | |
| C510 | CK73HBB1H102K | | 1000pF 50V K | • | C637 | CK73HB1H103K | C CAPACITOR | 10000pF 50V F | < |
| C511 C512 | CK73HB1H103K CC73HCH1H100B | C CAPACITOR | 10000pF 50V K 10pF 50V B | | C638 C639 | CK73HBB1H682K CC73HCH1H101J | C CAPACITOR C CAPACITOR | 6800pF 50V K 100pF 50V J | |
| C512 C513 | CC73HCH1H180G | | 10рг 50V Б 18рF 50V G | | C639 C640 | C93-1969-05 | C CAPACITOR | 1000pF 50V 3 | |
| C516 | CC73HCH1H270G | | 27pF 50V G | | C641 | CC73HCH1H101J | C CAPACITOR | 100pF 50V J | |
| C518 | CC73HCH1H180G | | 18pF 50V G | | C642 | CC73HCH1H100B | C CAPACITOR | 10pF 50V B | |
| C519 | CK73HBB1H102K | C CAPACITOR | 1000pF 50V K | | C643 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | |
| C520 | CK73HB1H103K | C CAPACITOR | 10000pF 50V K | | C644 | C93-1953-05 | C CAPACITOR | 0.01uF 25V | |
| C521 | CC73HCH1H330G | | 33pF 50V G | | C645 | CC73HCH1H330G | | 33pF 50V G | |
| C522 C523 | CK73HBB1H102K CC73HCH1H050B | | 1000pF 50V K 5pF 50V B | | C646 C647 | CC73HCH1H151J C93-1959-05 | C CAPACITOR C CAPACITOR | 150pF 50V J 0.1uF 16V | |
| C524 | CK73HBB1H102K | | 1000pF 50V K | | C648 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | |
| C525 | CK73HBB1H102K | | 1000pF 50V K | | C649 | CC73HCH1H100B | C CAPACITOR | 10pF 50V B | |
| C526 | CC73GCH1H120G | | 12pF 50V G | | C650 | CC73HCH1H101J | C CAPACITOR | 100pF 50V J | |
| C528 | CC73HCH1H050B | | 5pF 50V B | | C651 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C529 | CK73HBB1H102K | | 1000pF 50V K | | C652 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C530 C532 | CK73HBB1H102K CC73HCH1H050B | | 1000pF 50V K 5pF 50V B | | C653 C654 | CC73HCH1H560J | C CAPACITOR | 56pF 50V J | |
| C532 C534 | CK73HBB1H102K | | 1000pF 50V K | | C655 | CK73HBB1H102K CK73HB1H103K | C CAPACITOR C CAPACITOR | 1000pF 50V K 10000pF 50V k | (|
| C535 | CK73HBB1H102K | | 1000pF 50V K | | C656 | | C CAPACITOR | 10pF 50V B | ` |
| C536 | CC73GCH1H150G | | 15pF 50V G | | C657 | | C CAPACITOR | 6pF 50V B | |
| C537 | CC73HCH1H050B | C CAPACITOR | 5pF 50V B | | C658 | CK73HB1H103K | C CAPACITOR | 10000pF 50V l | < |
| C538 | CK73HBB1H102K | | 1000pF 50V K | | C659 | CK73HB1H103K | C CAPACITOR | 10000pF 50V l | < |
| C539 | CK73HBB1H102K | | 1000pF 50V K | | C660 | CC73HCH1H120G | | 12pF 50V G | |
| C541 | CK73GXR1H104K | | 0.1uF 50V K | | C661 | CK73HBB1H102K | | 1000pF 50V K | |
| C542 C544 | CK73HBB1H102K CK73HBB1H102K | | 1000pF 50V K 1000pF 50V K | | C662 C663 | CK73HBB1H102K CK73HB1H103K | C CAPACITOR C CAPACITOR | 1000pF 50V K 10000pF 50V F | (|
| C545 | CC73HCH1H100B | | 10pF 50V B | | C665 | CC73HCH1H090B | | 9pF 50V B | ` |
| C546 | CK73HBB1H102K | | 1000pF 50V K | | C666 | CC73HCH1H270G | | 27pF 50V G | |
| C548 | CC73HCH1H330G | | 33pF 50V G | | C667 | CC73HCH1H060B | | 6pF 50V B | |
| C550 | CK73HBB1H102K | | 1000pF 50V K | | C668 | CC73HCH1H180G | | 18pF 50V G | |
| C551 | CC73HCH1H080B | | 8pF 50V B | | C669 | | C CAPACITOR | 2pF 50V B | |
| C552 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | | C670 | CC73HCH1H020B | | 2pF 50V B | |
| C553 C554 | C93-0955-05 CK73HBB1H102K | C CAPACITOR | 68pF 50V 1000pF 50V K | | C671 C681 | CC73HCH1H180G CC73HCH1H471J | C CAPACITOR C CAPACITOR | 18pF 50V G 470pF 50V J | |
| C555 | CC73HCH1H080B | | 8pF 50V B | | C700 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | |
| C557 | CC73GCH1H150G | | 15pF 50V G | | C701 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C559 | CK73HBB1H102K | | 1000pF 50V K | | C702 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C560 | CK73HBB1H102K | | 1000pF 50V K | | C703 | CK73FXR0J226M | C CAPACITOR | 22uF 6.3V M | |
| C561 | C93-0957-05 | C CAPACITOR | 82pF 50V | | C704 | CK73HB1H103K | C CAPACITOR | 10000pF 50V I | < |
| C562 C600 | CK73HBB1H102K CC73JCH1H101J | C CAPACITOR C CAPACITOR | 1000pF 50V K 100pF 50V J | | C705 C706 | C93-1959-05 C93-1959-05 | C CAPACITOR C CAPACITOR | 0.1uF 16V 0.1uF 16V | |
| C601 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | | C707 | CK73FXR0J226M | C CAPACITOR | 22uF 6.3V M | |
| C602 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | | C708 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | |
| C603 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | | C709 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C604 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | | C711 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C605 | | C CAPACITOR | 100pF 50V J | | C712 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C606 C607 | CC73JCH1H101J CC73HCH1H120G | | 100pF 50V J 12pF 50V G | | C713 C714 | C93-1959-05 C93-1959-05 | C CAPACITOR C CAPACITOR | 0.1uF 16V 0.1uF 16V | |
| C608 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | | C714 | C93-1959-05 | C CAPACITOR | 0.1uF 16V 0.1uF 16V | |
| C609 | CK73HB1E562K | C CAPACITOR | 5600pF 25V K | | C716 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C610 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C717 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C611 | CC73HCH1H100B | | 10pF 50V B | | C718 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C612 | CK73HB1A224K | C CAPACITOR | 0.22u 10V K | | C719 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | |
| C613 C614 | C93-1959-05 CK73HB1H123K | C CAPACITOR C CAPACITOR | 0.1uF 16V | | C720 C721 | CK73HB1E104K C93-1959-05 | C CAPACITOR C CAPACITOR | 0.10uF 25V K 0.1uF 16V | |
| C614 C615 | CK73HB1E104K | C CAPACITOR | 0.012uF 50V K 0.10uF 25V K | | C721 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | |
| C616 | CC73HCH1H390G | | 39pF 50V G | | C723 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C617 | CC73HCH1H390G | | 39pF 50V G | | C724 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C618 | CK73HB1H103K | C CAPACITOR | 10000pF 50V K | | C725 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | |
| C619 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C726 | C93-1953-05 | C CAPACITOR | 0.01uF 25V | |
| C620 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | , | C728 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | , |
| C621 C622 | CK73HB1H103K CK73HBB1H102K | C CAPACITOR | 10000pF 50V K 1000pF 50V K | | C729 C730 | CK73HB1H103K CK73GB0J106K | C CAPACITOR C CAPACITOR | 10000pF 50V F | < |
| C622 | CC73HCH1H390G | | 39pF 50V G | | C730 | C93-1959-05 | C CAPACITOR | 10uF 6.3V K 0.1uF 16V | |
| C624 | CC73HCH1H390G | | 39pF 50V G | | C731 | C93-1959-05 | C CAPACITOR | 0.1uF 16V 0.1uF 16V | |
| C625 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C733 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C626 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | | C734 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C627 | C93-1953-05 | C CAPACITOR | 0.01uF 25V | | C735 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | |
| C628 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C736 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C629 | C93-1953-05 | C CAPACITOR | 0.01uF 25V | | C737 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | |
| C630 C631 | C93-1959-05 C93-1959-05 | C CAPACITOR C CAPACITOR | 0.1uF 16V 0.1uF 16V | | C738 C739 | CC73JCH1H101J CK73GB0J106K | C CAPACITOR C CAPACITOR | 100pF 50V J 10uF 6.3V K | |
| C632 | C93-1959-05 C93-1953-05 | C CAPACITOR | 0.1uF 16V 0.01uF 25V | | C739 C740 | CK73HB1H103K | C CAPACITOR | 10000pF 50V k | < |
| C633 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C741 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | - |
| C634 | CK73FB1C106K | C CAPACITOR | 10uF 16V K | | C742 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | |
| | | | | | | | | | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local | ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|--------------------------------|----------------------------|-------------------------------|-------|--------------|--------------------------------|----------------------------|-------------------------------|-------|
| C743 | C93-1953-05 | C CAPACITOR | 0.01uF 25V | | C841 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| C745 C746 | C93-1959-05 | C CAPACITOR C CAPACITOR | 0.1uF 16V | | C852 C853 | CK73HB1E104K CK73HB1H103K | C CAPACITOR C CAPACITOR | 0.10uF 25V K | , |
| C746 C747 | CK73GB0J106K CK73GB0J106K | C CAPACITOR | 10uF 6.3V K 10uF 6.3V K | | C854 | CK73HBB1H102K | C CAPACITOR | 10000pF 50V K | |
| C748 | CC73HCH1H100B | | 10pF 50V B | | C856 | CC73HCH1H470G | | 47pF 50V G | |
| C749 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C857 | CC73HCH1H470G | C CAPACITOR | 47pF 50V G | |
| C750 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | | C898 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| C751 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C899 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | |
| C752 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C900 | CK73HB1H103K | C CAPACITOR | 10000pF 50V F | < |
| C754 C755 | C93-1959-05 C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C901 C902 | CK73HB1E104K CK73HB1E104K | C CAPACITOR C CAPACITOR | 0.10uF 25V K | |
| C755 | C93-1959-05 | C CAPACITOR C CAPACITOR | 0.1uF 16V 0.1uF 16V | | C902 | CK73HBB1H102K | C CAPACITOR C CAPACITOR | 0.10uF 25V K 1000pF 50V K | |
| C757 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C904 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | |
| C758 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C905 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| C759 | CC73JCH1H101J | C CAPACITOR | 100pF 50V J | | C906 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | |
| C760 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C908 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C762 C764 | C93-1959-05 C93-1959-05 | C CAPACITOR | 0.1uF 16V 0.1uF 16V | | C909 C910 | CK73HB1C105K C93-1959-05 | C CAPACITOR | 1.0uF 16V K 0.1uF 16V | |
| C764 | C93-1959-05 | C CAPACITOR C CAPACITOR | 0.1uF 16V 0.1uF 16V | | C910 | C93-1959-05 | C CAPACITOR C CAPACITOR | 0.1uF 16V 0.1uF 16V | |
| C768 | C93-1953-05 | C CAPACITOR | 0.01uF 25V | | C912 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C769 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C913 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C770 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C914 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C771 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C915 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| C772 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C916 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | |
| C773 | C93-1959-05 | C CAPACITOR | 0.1uF 16V 0.1uF 16V | | C917 C918 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | |
| C774 C775 | C93-1959-05 C93-1959-05 | C CAPACITOR C CAPACITOR | 0.1uF 16V 0.1uF 16V | | C916 C919 | C93-1959-05 CK73HB1C105K | C CAPACITOR C CAPACITOR | 0.1uF 16V 1.0uF 16V K | |
| C776 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C920 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | |
| C777 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C921 | CC73HCH1H101J | C CAPACITOR | 100pF 50V J | |
| C778 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C922 | CK73HBB1H472K | C CAPACITOR | 4700pF 50V K | |
| C779 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C924 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | |
| C780 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C925 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | |
| C781 C782 | CC73HCH1H150G CC73HCH1H150G | | 15pF 50V G 15pF 50V G | | C926 C927 | CK73HB1C105K CK73HB1C105K | C CAPACITOR C CAPACITOR | 1.0uF 16V K 1.0uF 16V K | |
| C783 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | | C928 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | |
| C784 | CK73HB1A224K | C CAPACITOR | 0.22u 10V K | | C929 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| C785 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | | C930 | CC73HCH1H680J | C CAPACITOR | 68pF 50V J | |
| C786 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | | C931 | CK73HB1A474K | C CAPACITOR | 0.47uF 10V K | |
| C787 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | | C932 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | , |
| C791 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C933 | CK73HB1H103K | C CAPACITOR | 10000pF 50V F | |
| C792 C793 | C93-1959-05 CK73HBB1H102K | C CAPACITOR | 0.1uF 16V 1000pF 50V K | | C934 C935 | CK73HB1H103K CC73HCH1H101J | C CAPACITOR C CAPACITOR | 10000pF 50V I 100pF 50V J | ` |
| C794 | CK73HBB1H102K | | 1000pF 50V K | | C936 | CK73GB0J106K | C CAPACITOR | 10uF 6.3V K | |
| C795 | CK73HB1H103K | C CAPACITOR | 10000pF 50V k | (| C937 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| C796 | CK73HB1H103K | C CAPACITOR | 10000pF 50V k | | C938 | CK73HB1H103K | C CAPACITOR | 10000pF 50V l | |
| C797 | CK73HB1H103K | C CAPACITOR | 10000pF 50V k | (| C940 | CK73HBB1H102K | C CAPACITOR | 1000pF 50V K | |
| C798 C799 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | | C941 C942 | CC73HCH1H101J | C CAPACITOR C CAPACITOR | 100pF 50V J | , |
| C800 | CK73HB1E104K CK73HB1H103K | C CAPACITOR C CAPACITOR | 0.10uF 25V K 10000pF 50V k | (| C942 C943 | CK73HB1H103K CK73HB1E104K | C CAPACITOR C CAPACITOR | 10000pF 50V F 0.10uF 25V K | ` |
| C801 | CC73HCH1H101J | | 100pF 50V J | ` | C944 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| C802 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C945 | CK73HB1H103K | C CAPACITOR | 10000pF 50V H | < |
| C803 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C946 | CK73HB1H103K | C CAPACITOR | 10000pF 50V I | < |
| C804 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C947 | CK73HBB1H102K | | 1000pF 50V K | |
| C805 | CC73HCH1H101J | | 100pF 50V J | | C948 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| C806 C807 | C93-1959-05 CK73HB1H103K | C CAPACITOR C CAPACITOR | 0.1uF 16V 10000pF 50V k | • | C949 C950 | CK73GB1E105K CK73GB1E105K | C CAPACITOR C CAPACITOR | 1uF 25V K 1uF 25V K | |
| C808 | CC73HCH1H101J | | 10000pr 50V I | ` | C951 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| C809 | CC73HCH1H101J | | 100pF 50V J | | C952 | CK73HBB1H102K | | 1000pF 50V K | |
| C810 | CC73HCH1H101J | | 100pF 50V J | | C953 | CC73HCH1H101J | C CAPACITOR | 100pF 50V J | |
| C811 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C954 | CC73HCH1H101J | | 100pF 50V J | |
| C812 | CC73HCH1H101J | | 100pF 50V J | | C955 | CC73HCH1H101J | | 100pF 50V J | |
| C813 C814 | CC73HCH1H101J CC73HCH1H101J | | 100pF 50V J 100pF 50V J | | C956 C957 | CC73HCH1H101J CC73HCH1H101J | | 100pF 50V J 100pF 50V J | |
| C815 | CC73HCH1H101J | | 100pF 50V J | | C958 | CC73HCH1H101J | | 100pF 50V J | |
| C816 | CC73HCH1H101J | | 100pF 50V J | | C959 | CC73HCH1H101J | | 100pF 50V J | |
| C817 | CK73HBB1H102K | | 1000pF 50V K | | C960 | CC73HCH1H101J | | 100pF 50V J | |
| C818 | CC73HCH1H101J | | 100pF 50V J | | C961 | CC73HCH1H101J | | 100pF 50V J | |
| C819 | CK73HB1H103K | C CAPACITOR | 10000pF 50V k | (| C962 | CC73HCH1H101J | | 100pF 50V J | |
| C820 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | | C963 | CC73HCH1H101J | | 100pF 50V J | , |
| C821 C822 | CC73HCH1H101J CC73HCH1H101J | | 100pF 50V J 100pF 50V J | | C964 C965 | CK73HB1E473K CC73HCH1H101J | C CAPACITOR | 0.047uF 25V K 100pF 50V J | |
| C824 | CK73HBB1H102K | | 1000pF 50V J | | C966 | CC73HCH1H101J | | 100pF 50V J | |
| C829 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C967 | CK73HBB1H102K | | 1000pF 50V K | |
| C830 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C968 | CC73HCH1H101J | | 100pF 50V J | |
| C831 | C93-1959-05 | C CAPACITOR | 0.1uF 16V | | C969 | C92-0906-05 | E CAPACITOR | 330uF 10V | |
| C834 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | C970 | CK73HB1H103K | C CAPACITOR | 10000pF 50V H | < |
| C835 C839 | CC73HCH1H101J CK73HB1E104K | C CAPACITOR C CAPACITOR | 100pF 50V J 0.10uF 25V K | | C971 C972 | CE32BY1E470M CK73HB1E104K | E CAPACITOR C CAPACITOR | 47uF 25V M 0.10uF 25V K | |
| 0038 | ON SHID IE 104N | O OALAGITUR | 0.10u1 20V N | | OSIZ | OKTOIND IE 104K | OUNTAUTUR | 0.10ul 20V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local | ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|--------------------------------|----------------------------|------------------------------|-------|--------------|------------------------------|----------------------------|--------------------------------|-------|
| C973 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | | R58 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| C975 | CC73HCH1H101J | | 100pF 50V J | | R59 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | |
| C976 | CC73HCH1H101J | | 100pF 50V J | , | R60 | RK73HB1J474J | MG RESISTOR | 470kΩ 1/16W | J |
| C977 C978 | CK73HBB1H102K CC73HCH1H471J | | 1000pF 50V K 470pF 50V J | | R61 R62 | RK73HB1J102J RK73HB1J102J | MG RESISTOR MG RESISTOR | 1kΩ 1/16W J 1kΩ 1/16W J | |
| C978 | CC73HCH1H101J | | 100pF 50V J | | R63 | RK73HH1J273D | MG RESISTOR | 27kΩ 1/16W D |) |
| C980 | CC73HCH1H101J | | 100pF 50V J | | R64 | RK73HH1J152D | MG RESISTOR | 1.5kΩ 1/16W [| |
| C981 | CK73HBB1H102K | | 1000pF 50V K | (| R65 | RK73HH1J472D | MG RESISTOR | 4.7kΩ 1/16W [| |
| C982 | CC73HCH1H101J | | 100pF 50V J | | R66 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | |
| C983 | CC73HCH1H101J | | 100pF 50V J | | R67 | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W J | |
| C984 | CC73HCH1H101J | | 100pF 50V J | | R68 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | |
| C985 C986 | CC73HCH1H101J CC73HCH1H101J | | 100pF 50V J 100pF 50V J | | R69 R70 | RK73HB1J472J RK73HB1J000J | MG RESISTOR MG RESISTOR | 4.7kΩ 1/16W J 0Ω 1/16W J | J |
| C987 | CC73HCH1H101J | | 100pF 50V J | | R71 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| C988 | CC73HCH1H101J | | 100pF 50V J | | R72 | RK73JB1H473J | MG RESISTOR | 47kΩ 1/20W J | |
| C989 | CC73HCH1H101J | | 100pF 50V J | | R73 | RK73HB1J471J | MG RESISTOR | 470Ω 1/16W J | |
| C990 | CC73HCH1H101J | | 100pF 50V J | | R75 | RK73HB1J474J | MG RESISTOR | 470kΩ 1/16W | J |
| C991 | CC73HCH1H101J | | 100pF 50V J | | R76 | RK73FB2B332J | MG RESISTOR | 3.3kΩ 1/8W J | |
| C992 C993 | CC73HCH1H101J CC73HCH1H101J | | 100pF 50V J | | R77 R78 | RK73FB2B332J | MG RESISTOR | 3.3kΩ 1/8W J | |
| C993 C994 | CC73HCH1H101J | | 100pF 50V J 100pF 50V J | | R76 R84 | RK73FB2B332J RK73HB1J000J | MG RESISTOR MG RESISTOR | 3.3kΩ 1/8W J 0Ω 1/16W J | |
| C995 | CC73HCH1H101J | | 100pF 50V J | | R96 | RK73FB2B2R7J | MG RESISTOR | 2.7Ω 1/8W J | |
| C996 | CC73HCH1H101J | | 100pF 50V J | | R97 | RK73FB2B3R3J | MG RESISTOR | 3.3Ω 1/8W J | |
| C997 | CK73HBB1H102K | | 1000pF 50V K | (| R100 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| C998 | CK73HBB1H102K | | 1000pF 50V K | (| R101 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | |
| C999 | CK73HB1C105K | C CAPACITOR | 1.0uF 16V K | | R102 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| D4 | DI/701 ID4 1000 I | MC DECICEOD | 00 4/46/4/ 1 | | R103 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | |
| R1 R2 | RK73HB1J000J RK73HB1J000J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 0Ω 1/16W J | | R104 R105 | RK73HB1J100J RK73HB1J474J | MG RESISTOR MG RESISTOR | 10Ω 1/16W J 470kΩ 1/16W | ı |
| R3 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R106 | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W J | |
| R8 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | J | R107 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R10 | RK73HH1J104D | MG RESISTOR | 100kΩ 1/16W | | R108 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R11 | RK73HH1J104D | MG RESISTOR | 100kΩ 1/16W | D | R109 | RK73HB1J470J | MG RESISTOR | 47Ω 1/16W J | |
| R12 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | - | R110 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R13 R14 | RK73HH1J104D | MG RESISTOR | 100kΩ 1/16W | | R111 R112 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R14 R15 | RK73HH1J223D RK73HB1J103J | MG RESISTOR MG RESISTOR | 22kΩ 1/16W I 10kΩ 1/16W J | | R112 | RK73HB1J000J RK73HB1J683J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 68kΩ 1/16W J | |
| R16 | RK73JB1H102J | MG RESISTOR | 1kΩ 1/20W J | | R115 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R17 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | I | R116 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R18 | RK73JB1H104J | MG RESISTOR | 100kΩ 1/20W | J | R117 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R19 | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W J | l | R118 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W J | |
| R20 | RK73GB2A000J | MG RESISTOR | 0Ω 1/10W J | | R119 | RK73HB1J474J | MG RESISTOR | 470kΩ 1/16W | |
| R21 R22 | RK73HB1J104J | MG RESISTOR MG RESISTOR | 100kΩ 1/16W | | R121 R122 | RK73HH1J151D | MG RESISTOR | 150Ω 1/16W D | |
| R23 | RK73JB1H103J RK73JB1H102J | MG RESISTOR | 10kΩ 1/20W J 1kΩ 1/20W J | , | R123 | RK73HB1J472J RK73HB1J104J | MG RESISTOR MG RESISTOR | 4.7kΩ 1/16W J 100kΩ 1/16W J | |
| R24 | RK73JB1H104J | MG RESISTOR | 100kΩ 1/20W | J | R124 | RK73HH1J391D | MG RESISTOR | 390Ω 1/16W D | |
| R25 | RK73JB1H472J | MG RESISTOR | 4.7kΩ 1/20W | | R125 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | |
| R26 | RK73JB1H102J | MG RESISTOR | 1kΩ 1/20W J | | R126 | RK73HB1J106J | MG RESISTOR | 10MΩ 1/16W 、 | |
| R27 | RK73JB1H103J | MG RESISTOR | 10kΩ 1/20W J | | R127 | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W J | J |
| R29 | RK73JB1H473J | MG RESISTOR MG RESISTOR | 47kΩ 1/20W J | | R128 | RK73HB1J470J RK73HB1J104J | MG RESISTOR MG RESISTOR | 47Ω 1/16W J | |
| R30 R31 | RK73HB1J223J RK73HB1J000J | MG RESISTOR | 22kΩ 1/16W J 0Ω 1/16W J | 1 | R129 R130 | RK73HB1J223J | MG RESISTOR | 100kΩ 1/16W J 22kΩ 1/16W J | |
| R32 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | I | R131 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R33 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | | R132 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R34 | RK73HH1J333D | MG RESISTOR | 33kΩ 1/16W E | | R133 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R35 | RK73HH1J103D | MG RESISTOR | 10kΩ 1/16W E | | R135 | RK73HB1J333J | MG RESISTOR | 33kΩ 1/16W J | |
| R36 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | | R136 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R37 R38 | RK73HB1J101J RK73HB1J224J | MG RESISTOR MG RESISTOR | 100Ω 1/16W J 220kΩ 1/16W | | R137 R138 | RK73HB1J223J RK73HB1J473J | MG RESISTOR MG RESISTOR | 22kΩ 1/16W J 47kΩ 1/16W J | |
| R39 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | | R139 | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W J | |
| R40 | RK73JB1H104J | MG RESISTOR | 100kΩ 1/20W | | R141 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | |
| R41 | RK73JB1H104J | MG RESISTOR | 100kΩ 1/20W | | R142 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | |
| R42 | RK73JB1H473J | MG RESISTOR | 47kΩ 1/20W J | l | R143 | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W J | J |
| R43 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R144 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R44 | RK73JB1H102J | MG RESISTOR | 1kΩ 1/20W J | | R145 | RK73HB1J474J | MG RESISTOR | 470kΩ 1/16W | J |
| R45 R46 | RK73HB1J103J RK73JB1H104J | MG RESISTOR MG RESISTOR | 10kΩ 1/16W J 100kΩ 1/20W | | R146 R147 | RK73HB1J560J RK73HB1J561J | MG RESISTOR MG RESISTOR | 56Ω 1/16W J 560Ω 1/16W J | |
| R40 R47 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | U | R147 R148 | RK73HB1J563J | MG RESISTOR | 56kΩ 1/16W J | |
| R48 | RK73HH1J103D | MG RESISTOR | 10kΩ 1/16W E |) | R150 | RK73HH1J331D | MG RESISTOR | 330Ω 1/16W D | |
| R49 | RK73HH1J473D | MG RESISTOR | 47kΩ 1/16W E | | R151 | RK73HH1J271D | MG RESISTOR | 270Ω 1/16W D | |
| R50 | RK73HH1J103D | MG RESISTOR | 10kΩ 1/16W E |) | R152 | RN73HH1J220D | MF RESISTOR | 22Ω 1/16W D | |
| R51 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W | J | R153 | RN73HH1J220D | MF RESISTOR | 22Ω 1/16W D | |
| R52 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | | R154 | RK73HB1J474J | MG RESISTOR | 470kΩ 1/16W | J |
| R53 R54 | RK73HB1J000J R92-3769-05 | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 10Ω 0.25W | | R155 R156 | RK73HB1J000J RK73HB1J000J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 0Ω 1/16W J | |
| R54 R55 | R92-3769-05 | MG RESISTOR | 10Ω 0.25W 10Ω 0.25W | | R150 R157 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R56 | RK73HB1J334J | MG RESISTOR | 330kΩ 1/16W | J | R158 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | |
| R57 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R159 | RK73HB1J180J | MG RESISTOR | 18Ω 1/16W J | |
| | | | | | | | | | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local | ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|------------------------------|----------------------------|------------------------------|-------|--------------|------------------------------|----------------------------|-----------------------------|-------|
| R161 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | | R374 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R162 | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W J | | R375 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R163 | RK73HB1J154J | MG RESISTOR | 150kΩ 1/16W | J | R376 | RK73GB2A471J | MG RESISTOR | 470Ω 1/10W J | |
| R164 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R377 | RK73FB2B101J | MG RESISTOR | 100Ω 1/8W J | |
| R165 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | | R378 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| R166 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | | R379 | RK73HB1J333J | MG RESISTOR | 33kΩ 1/16W J | |
| R167 | RK73HB1J180J | MG RESISTOR | 18Ω 1/16W J | | R380 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R168 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | | R381 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R169 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | | R384 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R170 R171 | RK73HB1J822J | MG RESISTOR | 8.2kΩ 1/16W . | | R385 R386 | RK73HB1J560J | MG RESISTOR MG RESISTOR | 56Ω 1/16W J | |
| R171 | RK73HB1J101J RK73HH1J151D | MG RESISTOR MG RESISTOR | 100Ω 1/16W J 150Ω 1/16W E | | R387 | RK73HB1J103J RK73FB2B221J | MG RESISTOR | 10kΩ 1/16W J 220Ω 1/8W J | |
| R173 | RK73HB1J680J | MG RESISTOR | 68Ω 1/16W J | , | R388 | RK73FB2B121J | MG RESISTOR | 120Ω 1/8W J | |
| R174 | RK73HB1J470J | MG RESISTOR | 47Ω 1/16W J | | R389 | RK73GB2A000J | MG RESISTOR | 0Ω 1/10W J | |
| R175 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R391 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R176 | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W s | J | R394 | RK73HB1J183J | MG RESISTOR | 18kΩ 1/16W J | |
| R177 | RK73GB2A000J | MG RESISTOR | 0Ω 1/10W J | | R395 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R178 | RK73HB1J474J | MG RESISTOR | 470kΩ 1/16W | J | R396 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R179 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | | R397 | RK73PB2H470J | MG RESISTOR | 47Ω 1/2W J | |
| R180 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R398 | RK73HB1J332J | MG RESISTOR | 3.3kΩ 1/16W J | J |
| R300 | RK73HB1J332J | MG RESISTOR | 3.3kΩ 1/16W v | J | R399 | RK73PB2H470J | MG RESISTOR | 47Ω 1/2W J | |
| R303 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R400 | RK73GB2A000J | MG RESISTOR | 0Ω 1/10W J | |
| R305 | RK73HB1J220J | MG RESISTOR | 22Ω 1/16W J | | R402 | R92-1061-05 | C RESISTOR | $\Omega 800.0$ | |
| R306 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R403 | RK73GB2A000J | MG RESISTOR | 0Ω 1/10W J | |
| R307 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | | R500 | RK73HB1J221J | MG RESISTOR | 220Ω 1/16W J | |
| R308 | RK73HB1J121J | MG RESISTOR | 120Ω 1/16W J | | R501 | RK73HB1J220J | MG RESISTOR | 22Ω 1/16W J | |
| R309 | RK73HB1J822J | MG RESISTOR | 8.2kΩ 1/16W . | | R502 | RK73HB1J221J | MG RESISTOR | 220Ω 1/16W J | |
| R310 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | | R503 | RK73HB1J562J | MG RESISTOR | 5.6kΩ 1/16W . | |
| R311 | RK73HB1J390J | MG RESISTOR | 39Ω 1/16W J | | R504 | RK73HB1J392J | MG RESISTOR | 3.9kΩ 1/16W c | |
| R312 R313 | RK73HB1J390J | MG RESISTOR | 39Ω 1/16W J | | R505 R506 | RK73HB1J471J | MG RESISTOR | 470Ω 1/16W J | |
| R314 | RK73HB1J271J RK73HB1J470J | MG RESISTOR MG RESISTOR | 270Ω 1/16W J 47Ω 1/16W J | | R507 | RK73HB1J470J RK73HB1J221J | MG RESISTOR MG RESISTOR | 47Ω 1/16W J 220Ω 1/16W J | |
| R315 | RK73HB1J470J | MG RESISTOR | 4.7kΩ 1/16W 3 | ı | R508 | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W J | |
| R316 | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W v | | R509 | RK73HB1J272J | MG RESISTOR | 2.7kΩ 1/16W s | |
| R317 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | , | R510 | RK73HB1J333J | MG RESISTOR | 33kΩ 1/16W J | |
| R318 | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W J | | R511 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R319 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W s | | R512 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R321 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W | | R514 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| R322 | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W | | R515 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R323 | RK73GB2A820J | MG RESISTOR | 82Ω 1/10W J | | R516 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| R324 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R517 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | |
| R325 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R519 | RK73HB1J180J | MG RESISTOR | 18Ω 1/16W J | |
| R327 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R520 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | |
| R328 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | J | R521 | RK73HB1J180J | MG RESISTOR | 18Ω 1/16W J | |
| R329 | RK73HB1J470J | MG RESISTOR | 47Ω 1/16W J | | R522 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | |
| R330 | RK73GB2A271J | MG RESISTOR | 270Ω 1/10W J | | R523 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | J |
| R332 | RK73GB2A390J | MG RESISTOR | 39Ω 1/10W J | | R525 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R333 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | | R526 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | |
| R334 | RK73HB1J103J | MG RESISTOR MG RESISTOR | 10kΩ 1/16W J | | R527 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | |
| R335 R336 | RK73HB1J153J RK73HB1J221J | MG RESISTOR | 15kΩ 1/16W J 220Ω 1/16W J | | R528 R529 | RK73HB1J103J RK73HB1J104J | MG RESISTOR MG RESISTOR | 10kΩ 1/16W J 100kΩ 1/16W | |
| R337 | RK73GB2A271J | MG RESISTOR | 270Ω 1/10W J | | R530 | RK73HB1J104J | MG RESISTOR | 0Ω 1/16W J | J |
| R338 | RK73GB2A2713 | MG RESISTOR | 39Ω 1/10W J | | R531 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | ı |
| R339 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R532 | RK73HB1J394J | MG RESISTOR | 390kΩ 1/16W | |
| R340 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R533 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | |
| R341 | RK73GB2A000J | MG RESISTOR | 0Ω 1/10W J | | R536 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | • |
| R342 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | | R538 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R343 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | | R539 | RK73HB1J274J | MG RESISTOR | 270kΩ 1/16W | J |
| R345 | RK73GB2A562J | MG RESISTOR | 5.6kΩ 1/10W s | | R540 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | |
| R346 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R542 | RK73HB1J390J | MG RESISTOR | 39Ω 1/16W J | |
| R347 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R543 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | |
| R348 | RK73HB1J153J | MG RESISTOR | 15kΩ 1/16W J | | R545 | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W J | J |
| R350 | RK73GB2A392J | MG RESISTOR | 3.9kΩ 1/10W v | J | R546 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W J | J |
| R351 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | | R548 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R353 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R550 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R355 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | | R551 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | J |
| R356 | RK73HB1J182J | MG RESISTOR | 1.8kΩ 1/16W . | | R552 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | |
| R357 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R553 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | |
| R358 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R554 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | |
| R359 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | | R556 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | |
| R360 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | | R600 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | |
| R363 | RK73GB2A181J | MG RESISTOR | 180Ω 1/10W J | | R601 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | |
| R364 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W . | | R602 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | |
| R365 | RK73HB1J471J | MG RESISTOR | 470Ω 1/16W J | | R603 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R366 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | | R604 | RK73HB1J681J | MG RESISTOR | 680Ω 1/16W J | |
| R367 | RK73GB2A221J | MG RESISTOR | 220Ω 1/10W J | | R605 | RK73JB1H103J | MG RESISTOR | 10kΩ 1/20W J | |
| R368 R371 | RK73HB1J223J RK73HB1J470J | MG RESISTOR MG RESISTOR | 22kΩ 1/16W J 47Ω 1/16W J | | R606 R607 | RK73HB1J000J RK73HB1J220J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 22Ω 1/16W J | |
| 1307 1 | 1417 OI 10 1047 VJ | WIG IVESISTOR | 4122 1/10VV J | | 11007 | 11111011010200 | WIG INLUIGION | 2237 1/ 10AA J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local | ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|------------------------------|----------------------------|-------------------------------|-------|--------------|------------------------------|----------------------------|-------------------------------|-------|
| R608 | RK73HB1J561J | MG RESISTOR | 560Ω 1/16W J | | R782 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R609 | RK73HB1J182J | MG RESISTOR | 1.8kΩ 1/16W . | | R783 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R610 | RK73HB1J562J | MG RESISTOR | 5.6kΩ 1/16W | | R785 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R611 R612 | RK73HB1J471J RK73JB1H472J | MG RESISTOR MG RESISTOR | 470Ω 1/16W J 4.7kΩ 1/20W s | | R787 R788 | RK73JB1H220J RK73JB1H220J | MG RESISTOR MG RESISTOR | 22Ω 1/20W J 22Ω 1/20W J | |
| R613 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | | R789 | RK73JB1H220J | MG RESISTOR | 100Ω 1/16W J | |
| R614 | RK73HB1J470J | MG RESISTOR | 47Ω 1/16W J | • | R790 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R615 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | | R791 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R616 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | | R792 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R617 | RK73HB1J274J | MG RESISTOR | 270kΩ 1/16W | | R794 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R618 R619 | RK73HB1J271J RK73HB1J180J | MG RESISTOR MG RESISTOR | 270Ω 1/16W J 18Ω 1/16W J | | R795 R797 | RK73JB1H220J RK73JB1H220J | MG RESISTOR MG RESISTOR | 22Ω 1/20W J 22Ω 1/20W J | |
| R620 | RK73HB1J271J | MG RESISTOR | 270Ω 1/16W J | 1 | R798 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J 22Ω 1/20W J | |
| R621 | RK73HB1J470J | MG RESISTOR | 47Ω 1/16W J | • | R799 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R622 | RK73HB1J681J | MG RESISTOR | 680Ω 1/16W J | l | R800 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R623 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | | R801 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R624 | RK73HB1J563J | MG RESISTOR | 56kΩ 1/16W J | | R802 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R625 R626 | RK73HB1J823J RK73HB1J333J | MG RESISTOR MG RESISTOR | 82kΩ 1/16W J 33kΩ 1/16W J | | R803 R804 | RK73JB1H220J RK73JB1H220J | MG RESISTOR MG RESISTOR | 22Ω 1/20W J 22Ω 1/20W J | |
| R628 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | | R805 | RK73GH2A49R9D | MG RESISTOR | 49.9Ω 1/10W [|) |
| R630 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | | R806 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R631 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R807 | RK73JB1H102J | MG RESISTOR | 1kΩ 1/20W J | |
| R632 | RK73GB2A220J | MG RESISTOR | 22Ω 1/10W J | | R808 | RK73JB1H102J | MG RESISTOR | 1kΩ 1/20W J | |
| R700 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | | R809 R810 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R701 R702 | RK73HB1J000J RK73HB1J100J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 10Ω 1/16W J | | R812 | RK73JB1H102J RK73JB1H222J | MG RESISTOR MG RESISTOR | 1kΩ 1/20W J 2.2kΩ 1/20W J | ı |
| R707 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | | R813 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | , |
| R708 | RK73HB1J220J | MG RESISTOR | 22Ω 1/16W J | | R814 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R709 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | | R815 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R719 | RK73HB1J153J | MG RESISTOR | 15kΩ 1/16W J | | R816 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R720 R721 | RK73HB1J333J | MG RESISTOR MG RESISTOR | 33kΩ 1/16W J | | R817 R818 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | |
| R721 | RK73HB1J100J RK73HB1J681J | MG RESISTOR | 10Ω 1/16W J 680Ω 1/16W J | 1 | R819 | RK73HB1J000J RK73HB1J471J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 470Ω 1/16W J | |
| R727 | RK73HB1J821J | MG RESISTOR | 820Ω 1/16W J | | R823 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| R728 | RK73JB1H104J | MG RESISTOR | 100kΩ 1/20W | | R824 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| R729 | RK73JB1H104J | MG RESISTOR | 100kΩ 1/20W | | R825 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| R731 | RK73JB1H473J | MG RESISTOR | 47kΩ 1/20W J | | R826 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| R732 R733 | RK73JB1H472J RK73HB1J000J | MG RESISTOR MG RESISTOR | 4.7kΩ 1/20W . 0Ω 1/16W J | J | R828 R830 | RK73HB1J103J RK73JB1H103J | MG RESISTOR MG RESISTOR | 10kΩ 1/16W J 10kΩ 1/20W J | |
| R734 | RK73JB1H103J | MG RESISTOR | 10kΩ 1/20W J | | R831 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R735 | RK73JB1H103J | MG RESISTOR | 10kΩ 1/20W J | | R833 | RK73JB1H104J | MG RESISTOR | 100kΩ 1/20W | |
| R736 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R835 | RK73JB1H104J | MG RESISTOR | 100kΩ 1/20W | J |
| R738 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | | R837 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R740 R742 | RK73HB1J102J RK73HB1J102J | MG RESISTOR MG RESISTOR | 1kΩ 1/16W J 1kΩ 1/16W J | | R838 R841 | RK73HB1J000J RK73HB1J473J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 47kΩ 1/16W J | |
| R744 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | | R843 | RK73HH1J104D | MG RESISTOR | 100kΩ 1/16W I | D |
| R746 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | | R844 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | _ |
| R747 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R845 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | |
| R748 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R854 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R749 R750 | RK73JB1H220J RK73JB1H220J | MG RESISTOR MG RESISTOR | 22Ω 1/20W J 22Ω 1/20W J | | R857 R858 | RK73HB1J333J RK73HB1J223J | MG RESISTOR MG RESISTOR | 33kΩ 1/16W J 22kΩ 1/16W J | |
| R751 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R859 | RK73HB1J223J | MG RESISTOR | 22kΩ 1/16W J | |
| R752 | RK73HB1J332J | MG RESISTOR | 3.3kΩ 1/16W | J | R862 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W J | |
| R753 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R863 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R754 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R864 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | 1 |
| R755 R756 | RK73JB1H104J RK73JB1H104J | MG RESISTOR MG RESISTOR | 100kΩ 1/20W 100kΩ 1/20W | | R865 R866 | RK73HB1J222J RK73HB1J473J | MG RESISTOR MG RESISTOR | 2.2kΩ 1/16W J 47kΩ 1/16W J | |
| R750 R757 | RK73JB1H104J RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | U | R867 | RK73HB1J223J | MG RESISTOR | 47kΩ 1/16W J 22kΩ 1/16W J | |
| R758 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R868 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R759 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R869 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R760 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R871 | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W J | |
| R761 | RK73JB1H220J | MG RESISTOR MG RESISTOR | 22Ω 1/20W J | | R874 | RK73JB1H104J | MG RESISTOR MG RESISTOR | 100kΩ 1/20W . 1kΩ 1/16W J | J |
| R762 R763 | RK73JB1H220J RK73JB1H220J | MG RESISTOR MG RESISTOR | 22Ω 1/20W J 22Ω 1/20W J | | R876 R877 | RK73HB1J102J RK73FB2B332J | MG RESISTOR MG RESISTOR | 1kΩ 1/16W J 3.3kΩ 1/8W J | |
| R764 | RK73JB1H220J | MG RESISTOR | 100kΩ 1/20W | J | R878 | RK73FB2B332J | MG RESISTOR | 3.3kΩ 1/8W J | |
| R765 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | - | R879 | RK73FB2B332J | MG RESISTOR | 3.3kΩ 1/8W J | |
| R766 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R880 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| R767 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R881 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| R768 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R882 | RK73JB1H473J | MG RESISTOR | 47kΩ 1/20W J | |
| R770 R772 | RK73JB1H220J RK73JB1H220J | MG RESISTOR MG RESISTOR | 22Ω 1/20W J 22Ω 1/20W J | | R883 R884 | RK73JB1H473J RK73HB1J104J | MG RESISTOR MG RESISTOR | 47kΩ 1/20W J 100kΩ 1/16W , | |
| R773 | RK73JB1H220J | MG RESISTOR | 100kΩ 1/20W | J | R885 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | • |
| R774 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R900 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | |
| R775 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J | | R901 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| R777 | RK73JB1H102J | MG RESISTOR | 1kΩ 1/20W J | | R902 | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | |
| R778 R779 | RK73JB1H220J RK73JB1H220J | MG RESISTOR MG RESISTOR | 22Ω 1/20W J 22Ω 1/20W J | | R903 R904 | RK73HB1J103J RK73HH1J223D | MG RESISTOR MG RESISTOR | 10kΩ 1/16W J 22kΩ 1/16W D | |
| R779 R781 | RK73JB1H220J | MG RESISTOR | 22Ω 1/20W J 22Ω 1/20W J | | R904 R905 | RK73HH1J223D | MG RESISTOR | 22kΩ 1/16W D | |
| | | | 0 | | | | | | |

| ⚠Sym | nbol No. | Part No. | Part Name | Description | Local | ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|------------|----------|------------------------------|----------------------------|-----------------------------|-------|--------------|------------------------------|---------------------------------|----------------|-------|
| R90 | | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | R998 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| R90 R90 | | RK73HB1J000J RK73HH1J223D | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 22kΩ 1/16W | D | L1 | LB73Z0AF-001 | CHIP FERRITE | | |
| R90 | | RK73HH1J223D | MG RESISTOR | 22kΩ 1/16W | | L2 | LB73Z0AF-001 | CHIP FERRITE | | |
| R91 | | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | | L3 | LB73Z0AF-001 | CHIP FERRITE | | |
| R91 | | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | | L4 | LB73H0AV-002 | CHIP FERRITE | | |
| R91 | | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L5 | LB73G0AK-001 | CHIP FERRITE | | |
| R91 R91 | | RK73HB1J102J RK73HB1J000J | MG RESISTOR MG RESISTOR | 1kΩ 1/16W J 0Ω 1/16W J | | L6 L7 | LB73G0AM-004 LB73G0AK-001 | CHIP FERRITE CHIP FERRITE | | |
| R91 | | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W | J | L9 | LB73G0AK-001 | CHIP FERRITE | | |
| R91 | 17 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L10 | LB73G0AK-001 | CHIP FERRITE | | |
| R91 | | RK73HB1J683J | MG RESISTOR | 68kΩ 1/16W | | L11 | L41-4792-69 | CHIP INDUCTOR | | |
| R91 R92 | | RK73HH1J473D | MG RESISTOR | 47kΩ 1/16W | D | L12 L13 | LB73G0AM-004 | CHIP FERRITE | | |
| R92 | | RK73HB1J000J RK73HB1J102J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 1kΩ 1/16W J | | L13 L14 | LR79Z0AA150M LB73G0AK-001 | CHIP INDUCTOR CHIP FERRITE | | |
| R92 | | RK73HB1J681J | MG RESISTOR | 680Ω 1/16W | J | L15 | LB73G0AK-001 | CHIP FERRITE | | |
| R92 | | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L16 | LB73H0AY-004 | CHIP FERRITE | | |
| R92 | | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W | | L80 | LB73H0AV-003 | CHIP FERRITE | | |
| R92 R92 | | RK73HB1J273J RK73HB1J103J | MG RESISTOR MG RESISTOR | 27kΩ 1/16W 10kΩ 1/16W | | L100 L101 | LB73H0AV-003 LB73H0AV-003 | CHIP FERRITE CHIP FERRITE | | |
| R92 | | RK73HB1J474J | MG RESISTOR | 470kΩ 1/16W | | L102 | LB73H0AV-003 | CHIP FERRITE | | |
| R92 | | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W | | L103 | LB73H0AV-003 | CHIP FERRITE | | |
| R93 | | RK73HH1J103D | MG RESISTOR | 10kΩ 1/16W | | L104 | LK73G0AQ100K | M.CHIP INDUCTOR | 10uH | |
| R93 | | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W | J | L105 | LK73G0AQ100K | M.CHIP INDUCTOR | 10uH | |
| R93 R93 | | RK73HB1J000J RK73HB1J102J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 1kΩ 1/16W J | | L106 L107 | L40-5667-92 L40-5667-92 | CHIP INDUCTOR CHIP INDUCTOR | | |
| R93 | | RK73GB2A101J | MG RESISTOR | 100Ω 1/10W | J | L108 | LB73H0AV-003 | CHIP FERRITE | | |
| R93 | | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L109 | LB73H0AV-003 | CHIP FERRITE | | |
| R93 | | RK73HB1J332J | MG RESISTOR | 3.3kΩ 1/16W | | L112 | LK73G0AF82NJ | M.CHIP INDUCTOR | 82nH | |
| R93 R94 | | RK73HB1J392J RK73HB1J392J | MG RESISTOR MG RESISTOR | 3.9kΩ 1/16W 3.9kΩ 1/16W | | L113 L114 | LK73G0AF68NJ LK73G0AFR22J | M.CHIP INDUCTOR M.CHIP INDUCTOR | 68nH 0.22uH | |
| R94 | | RK73GB2A101J | MG RESISTOR | 3.9kΩ 1/10W 100Ω 1/10W | | L114 L115 | LK73G0ACK223 | M.CHIP INDUCTOR | 3.3uH | |
| R94 | | RK73GB2A000J | MG RESISTOR | 0Ω 1/10W J | • | L116 | LK73G0AFR22J | M.CHIP INDUCTOR | 0.22uH | |
| R94 | | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W | | L117 | LK73G0AQ3R3K | M.CHIP INDUCTOR | 3.3uH | |
| R94 | | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W | | L118 | L40-5667-92 | CHIP INDUCTOR | | |
| R94 R94 | | RK73HB1J101J RK73HB1J000J | MG RESISTOR MG RESISTOR | 100Ω 1/16W 0Ω 1/16W J | J | L119 L120 | L40-5667-92 LK73G0AFR18J | CHIP INDUCTOR M.CHIP INDUCTOR | 0.18uH | |
| R94 | | RK73HB1J472J | MG RESISTOR | 4.7kΩ 1/16W | J | L121 | LK73G0AFR12J | M.CHIP INDUCTOR | 0.12uH | |
| R95 | | RK73GB2A000J | MG RESISTOR | 0Ω 1/10W J | | L122 | LB73H0AY-004 | CHIP FERRITE | | |
| R95 | | RK73HB1J100J | MG RESISTOR | 10Ω 1/16W J | | L123 | LR79Z0CM28NG | CHIP INDUCTOR | 28nH | |
| R95 R95 | | RK73HB1J472J RK73HB1J472J | MG RESISTOR MG RESISTOR | 4.7kΩ 1/16W 4.7kΩ 1/16W | | L124 L125 | L34-4611-15 LK73G0AF39NJ | AIR CORE COIL M.CHIP INDUCTOR | 39nH | |
| R95 | | RK73HB1J100J | MG RESISTOR | 4.7ks2 1/10w 10Ω 1/16W J | | L128 | LK73G0AG39N3 | M.CHIP INDUCTOR | 3.3uH | |
| R95 | | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L129 | LK73G0AQ3R3K | M.CHIP INDUCTOR | 3.3uH | |
| R95 | | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W | J | L130 | LB73H0AY-004 | CHIP FERRITE | | |
| R95 | | RK73GB2A102J | MG RESISTOR | 1kΩ 1/10W J | | L131 | LB73H0AY-004 | CHIP FERRITE | 00-11 | |
| R96 R96 | | RK73HB1J103J RK73GB2A102J | MG RESISTOR MG RESISTOR | 10kΩ 1/16W . 1kΩ 1/10W J | | L132 L134 | LK73H0AM82NJ LK73G0AF56NJ | M.CHIP INDUCTOR M.CHIP INDUCTOR | 82nH 56nH | |
| R96 | | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W | | L135 | LK73G0AF56NJ | M.CHIP INDUCTOR | 56nH | |
| R96 | | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W | | L136 | LB73H0AV-003 | CHIP FERRITE | | |
| R96 | | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W | | L137 | LK73G0AF82NJ | M.CHIP INDUCTOR | 82nH | |
| R96 R96 | | RK73HB1J471J RK73HB1J471J | MG RESISTOR MG RESISTOR | 470Ω 1/16W 470Ω 1/16W | | L139 L300 | LB73H0AY-004 LK73H0AM56NJ | CHIP FERRITE M.CHIP INDUCTOR | 56nH | |
| R96 | | RK73GB2A221J | MG RESISTOR | 220Ω 1/10W | | L301 | LK73G0AFR27J | M.CHIP INDUCTOR | 0.27uH | |
| R96 | 86 | RK73GB2A221J | MG RESISTOR | 220Ω 1/10W | J | L302 | LK73H0AM56NJ | M.CHIP INDUCTOR | 56nH | |
| R96 | | RK73HB1J471J | MG RESISTOR | 470Ω 1/16W | | L303 | LK73H0AM56NJ | M.CHIP INDUCTOR | 56nH | |
| R97 R97 | | RK73HB1J101J RK73HB1J471J | MG RESISTOR MG RESISTOR | 100Ω 1/16W 470Ω 1/16W | | L304 L305 | LK73H0AM68NJ LK73G0AF82NJ | M.CHIP INDUCTOR M.CHIP INDUCTOR | 68nH 82nH | |
| R97 | | RK73HB1J471J | MG RESISTOR | 470Ω 1/16W | | L306 | LB73F0AW-002 | CHIP FERRITE | OZIIII | |
| R97 | | RK73HB1J471J | MG RESISTOR | 470Ω 1/16W | | L308 | LB73H0AV-003 | CHIP FERRITE | | |
| R97 | | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W | | L309 | LB73G0BA-004 | CHIP FERRITE | | |
| R97 | | RK73HB1J101J | MG RESISTOR MG RESISTOR | 100Ω 1/16W 100Ω 1/16W | | L310 | LB73Z0AF-001 | CHIP FERRITE CHIP FERRITE | | |
| R97 R97 | | RK73HB1J101J RK73GB2A102J | MG RESISTOR | 160Ω 1/16W J | | L311 L312 | LB73Z0AF-001 LB73Z0AF-001 | CHIP FERRITE | | |
| R97 | | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W | | L313 | LK73G0AF27NJ | M.CHIP INDUCTOR | 27nH | |
| R97 | | RK73HB1J681J | MG RESISTOR | 680Ω 1/16W | | L315 | LR77Z0AA33NJ | CHIP INDUCTOR | 33nH | |
| R98 | | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L316 | L34-4896-05 | AIR CORE COIL | | |
| R98 | | RK73GB2A221J | MG RESISTOR | 220Ω 1/10W | | L317 | L41-3988-55 | CHIP INDUCTOR | | |
| R98 R98 | | RK73GB2A221J RK73HB1J101J | MG RESISTOR MG RESISTOR | 220Ω 1/10W 100Ω 1/16W | | L318 L319 | LB73G0BD-005 L34-4670-05 | CHIP FERRITE AIR CORE COIL | | |
| R98 | | RK73HB1J682J | MG RESISTOR | 6.8kΩ 1/16W | | L320 | L34-4903-05 | AIR CORE COIL | | |
| R98 | 35 | RK73HB1J104J | MG RESISTOR | 100kΩ 1/16W | | L321 | LB73H0AV-003 | CHIP FERRITE | | |
| R99 | | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L322 | L34-4903-05 | AIR CORE COIL | | |
| R99 R99 | | RK73HB1J102J RK73HB1J000J | MG RESISTOR MG RESISTOR | 1kΩ 1/16W J 0Ω 1/16W J | | L323 L324 | L34-4903-05 L34-4667-05 | AIR CORE COIL AIR CORE COIL | | |
| R99 | | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L524 L500 | L39-1498-05 | TOROIDAL COIL | | |
| R99 | | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L501 | LB73G0BD-005 | CHIP FERRITE | | |
| R99 | 97 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | | L502 | L41-1095-14 | CHIP INDUCTOR | | |

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| Local Color | | | | | | | | | | |
| LG750A6F50NA ACHIP INQUICTOR 2014 CN33 E21-178-65 TERMINAL LG70CDCPATA CN33 E21-178-65 TERMINAL CN35 | | | | | | | | | | |
| LGT9HAMRICUT | | | | | | | | | | |
| 1.586 1.782/20027M, CHIP NOLICITOR 27.4H | | | | | | | | | | |
| Life Land Content | | | | | | | | | | |
| Letter | L509 | | | 27.4nH | | | | TERMINAL | | |
| 1519 | | | M.CHIP INDUCTOR | | | | | | | |
| Life Lat-1085-14 CHIP NOLICOTOR CAMB E33-1727-65 TERMINAL Lat-1085-16 LAT-SQUAPTION CAMB | | | | 27.4nH | | | | | | |
| List | | | | | | | | | | |
| 1.516 | | | | 27 4nH | | | | | | |
| L516 | | | | | | | | | | |
| LEGO | | | | | | | | | | |
| Leg | | | | | | | | | | |
| L603 | | | | 10uH | | | | | | |
| Lego | | | | | | | | | | |
| LOS | | | | | | | | | | |
| LOSS | | | | | | | | | | |
| L609 | | | | 0.27uH | | | | | | |
| L698 L673H0AV003 CHIP FERRITE CN516 E23-1278-05 TERMINAL L610 L41-2285-33 CHIP NDUCTOR CN521 E23-1278-05 TERMINAL L611 L473G0AQ100K CN61P ENRITE CN621 E23-1278-05 TERMINAL L612 L473G0AQ100K CN61P ENRITE CN622 E23-1278-05 TERMINAL L613 L673H0AV003 CHIP FERRITE CN626 E23-1278-05 TERMINAL L614 L673H0AV03 CHIP FERRITE CN626 E23-1278-05 TERMINAL L615 L473G0AQ107K CN62P CN627 E23-1278-05 TERMINAL L616 L473G0AQ287K CHIP FERRITE CN626 E23-1278-05 TERMINAL L617 L473G0AQ287K CHIP FERRITE CN72 E23-1278-05 TERMINAL L618 L473G0AQ287K CHIP INDUCTOR 0.20H CN735 E40-8082-05 F.C.CONNECTOR L619 L40-8881-86 CHIP INDUCTOR 0.20H CN736 E23-1278-05 TERMINAL L620 L637G0AQ287K CHIP FERRITE CN736 E23-1278-05 TERMINAL L621 L41-1088-14 CHIP INDUCTOR CN740 E22-1278-05 TERMINAL L622 L41-1088-14 CHIP INDUCTOR CN740 E22-1278-05 TERMINAL L623 L473G0AQ477K CHIP FERRITE CN736 E23-1278-05 TERMINAL L624 L41-1088-14 CHIP INDUCTOR CN740 E23-1278-05 TERMINAL L625 L473G0AQ477K CHIP FERRITE CN740 E23-1278-05 TERMINAL L626 L673G0AQ4000K CHIP FERRITE CN772 E23-1278-05 TERMINAL L706 L673G0AQ4000K CHIP FERRITE CN772 E23-1278-05 TERMINAL L707 L673G0AQ4000 CHIP FERRITE CN772 E23-1278-05 TERMINAL L708 L673G0AQ400 CHIP FERRITE CN772 E23-1278-05 TERMINAL L708 L673G0AQ400 CHIP FERRITE CN772 E23-1278-05 TERMINAL L709 L673G0AQ400 CHIP FERRITE CN772 E23-1278-05 TERMINAL L716 L673G0AQ400 CHIP FERRITE CN772 E23-1278-05 TERMINAL L716 L673G0AQ400 CHIP FERRITE CN772 E23-1278-05 TERMINAL L717 L673G0AQ400 CHIP FERRITE CN772 E23-1278-05 TERMINAL L718 L673G0AQ400 CHIP FERRITE CN772 E23-1278-05 TERMINAL L718 L673G0AQ400 CHIP FERRITE CN772 E23-1278-05 TERMINAL L718 L673G0AQ400 CHI | | L41-4798-14 | CHIP INDUCTOR | | | CN510 | | TERMINAL | | |
| L600 L67-MAN-003 CHIP FERRITE CN517 E23-1278-05 TERMINAL L610 L47-265-63 M. CHIP INDUCTOR 10.0H CN521 E23-1278-05 TERMINAL L611 L47-360A0100K M. CHIP INDUCTOR 10.0H CN523 E23-1278-05 TERMINAL L613 L67-MAN-003 CHIP FERRITE CN526 E23-1278-05 TERMINAL L614 L67-MAN-002 CHIP FERRITE CN526 E23-1278-06 TERMINAL L615 L67-MAN-002 CHIP FERRITE CN526 E23-1278-06 TERMINAL L616 L67-MAN-002 CHIP INDUCTOR 0.330H CN726 E23-1278-05 TERMINAL L617 L47-360A022K M. CHIP INDUCTOR 0.330H CN726 E23-1278-05 TERMINAL L618 L67-MAN-002 CHIP INDUCTOR 0.320H CN726 E23-1278-05 SCKET FOR PIN L619 L40-8881-88 M. CHIP INDUCTOR 0.720H CN726 E23-1278-05 TERMINAL L620 L67-MAN-002 CHIP INDUCTOR 0.720H CN726 E23-1278-05 TERMINAL L621 L41-088-14 M. CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L622 L47-360A0074 M. CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L623 L47-360A0074 M. CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L626 L67-MAN-002 CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L626 L67-MAN-002 CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L702 L67-360A0-001 CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L703 L67-360A0-001 CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L704 L67-360A0-001 CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L705 L67-360A0-001 CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L706 L67-360A0-001 CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L707 L67-360A0-001 CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L708 L67-360A0-001 CHIP INDUCTOR 0.740H CN726 E23-1278-05 TERMINAL L709 L | | | | | | | | | | |
| L610 L41-2285-33 CHP INDUCTOR CNS21 E23-1278-05 TERMINAL CNS21 E23-1278-05 | | | | | | | | | | |
| LB11 LK73GAA0100K MCHPINDUCTOR 10JH CN523 E23-1278-05 TERMINAL LB12 LK73GAA0100K MCHPINDUCTOR 10JH CN524 E23-1278-05 TERMINAL LB13 LB73H0AV-003 LB15 LK73GAA073K MCHPINDUCTOR 0.33JH CN528 E23-1278-05 TERMINAL LB16 LB73H0AV-002 LB17 LK73GAA078K MCHPINDUCTOR 0.33JH CN528 E23-1278-05 TERMINAL LB18 LK73GAA078K MCHPINDUCTOR 0.82JH CN731 E34-6852-05 FC CONNECTOR MCHPINDUCTOR 0.82JH CN731 E34-6852-05 FC CONNECTOR MCHPINDUCTOR 0.82JH CN735 E34-6852-05 FC CONNECTOR MCHPINDUCTOR 0.82JH CN739 E23-1278-05 TERMINAL LB18 LK73GAA078K MCHPINDUCTOR 0.82JH CN739 E23-1278-05 TERMINAL LB21 LK73GAA078K MCHPINDUCTOR 0.82JH CN739 E23-1278-05 TERMINAL LB22 LK73GAA078K MCHPINDUCTOR 0.87JH CN739 E23-1278-05 TERMINAL LB23 LK73GAA078K MCHPINDUCTOR 0.87JH CN739 E23-1278-05 TERMINAL LB23 LK73GAA078K MCHPINDUCTOR 0.87JH CN739 E23-1278-05 TERMINAL LB23 LK73GAA078K MCHPINDUCTOR 0.87JH CN739 E23-1278-05 TERMINAL LB24 LK73GAA078K MCHPINDUCTOR 0.87JH CN739 E23-1278-05 TERMINAL LB25 LK73GAA000K MCHPINDUCTOR 0.87JH CN739 E23-1278-05 TERMINAL LB26 LK73GAA00K MCHPINDUCTOR 0.87JH CN739 E23-1278-05 TERMINAL LB27 LB27GAAX-001 CHIP FERRITE CN731 E34-128-105 TERMINAL CHIP FERRITE CN732 E33-1278-05 TERMINAL CHIP FERRITE CN733 E33-127 | | | | | | | | | | |
| L612 LC73GAA0100K MCHIP INDUCTOR 100H CN526 E23-1278-05 TERMINAL 1618 LC73GAA023K MCHIP FERRITE CN528 E23-1278-05 TERMINAL 1619 LC73GAA023K MCHIP INDUCTOR 0.33H CN529 E23-1278-05 TERMINAL 1619 LC73GAA022K MCHIP INDUCTOR 0.33H CN529 E23-1278-05 SOCKET FOR PIN 1619 LC73GAA022K MCHIP INDUCTOR 0.82H CN735 E40-6820-05 SOCKET FOR PIN 1619 LC73GAA022K MCHIP INDUCTOR 0.82H CN735 E40-6820-05 SOCKET FOR PIN 1619 LC73GAA022K MCHIP INDUCTOR 0.82H CN735 E40-6820-05 SOCKET FOR PIN 1619 LC73GAA022K MCHIP INDUCTOR 0.82H CN735 E23-1278-05 TERMINAL 1619 LC73GAA027K MCHIP INDUCTOR 0.82H CN735 E23-1278-05 TERMINAL 1619 LC73GAA027K MCHIP INDUCTOR 0.47H CN736 E23-1278-05 TERMINAL 1619 LC73GAA040K MCHIP INDUCTOR 0.47H LC73G | | | | 10uH | | | | | | |
| L613 LB73H0A/003 CHIP FERRITE CN526 E23-1278-05 TERMINAL CHIP SERRITE CN521 E40-682-05 TERMINAL CHIP SERRITE CN522 E43-1278-05 TERMINAL CHIP SERRITE CN522 E44-6560-05 F.C. CONNECTOR CHIP SERRITE CN522 E44-6560-05 F.C. CO | | | | | | | | | | |
| L615 LK73GOAGR33K M.CHIP INDUCTOR 0.33bH CN529 E23-1278-05 TERMINAL CHIP FERRITE CN731 E40-6720-04 SOCKET FOR PIN CHIP FERRITE CN731 E40-6720-04 SOCKET FOR PIN CHIP FERRITE CN735 E40-6862-05 F.C. CONNECTOR FOR CN740 E23-1278-05 F.C. CONNECTOR CN740 E23-1278-05 F.C. CONNECTOR FOR CN740 E23-1278-05 F.C. CONNECTOR CN740 E23-1278-05 F.C. | L613 | | | | | | | | | |
| L616 | | | | | | | | | | |
| L617 LK73G0AQ0R2X M. CHPI NDUCTOR 2.2H CN736 E40-8682-05 FC CONNECTOR L619 L40-6881-86 CHPI NDUCTOR 2.2H CN736 CAPTAGE E672GAA-5625 FC FC FC CONNECTOR FC FC FC CONNECTOR CN736 L40-6881-86 CHPI NDUCTOR CN736 E23-1278-05 FC FFC FFC CONNECTOR CN736 E23-1278-05 FC FFC FFC FFC CONNECTOR CN736 E23-1278-05 FC FFC FFC FFC CONNECTOR CN736 E23-1278-05 FC FFC FFC FFC CONNECTOR CN736 E23-1278-05 FC FFMIMAL FC FFC FFC FFC FFC FFC FFC FFC FFC FFC | | | | 0.33uH | | | | | | |
| L618 | | | | 0.00111 | | | | | | |
| L619 | | | | | | | | | | |
| L620 | | | | 2.2011 | | | | | | |
| L623 LK73GAQAGRAYK M.CHIPINDUCTOR 0.47uH CN70 E23-1278-05 TERMINAL L626 LK73GAQAGOM M.CHIPINDUCTOR 10uH CN770 E23-1278-05 TERMINAL L700 LB73GAAC-001 CHIP FERRITE CN771 E23-1278-05 TERMINAL L702 LB73GAAC-001 CHIP FERRITE CN782 E23-1278-05 TERMINAL L701 LB73GAAC-001 CHIP FERRITE CN782 E23-1278-05 TERMINAL L702 LB73GAAC-001 CHIP FERRITE CN782 E23-1278-05 TERMINAL L703 LB73GAAC-002 CHIP FERRITE CN807 E40-6580-05 FC. CONNECTOR L713 LB73GAAC-002 CHIP FERRITE CN807 E40-6580-05 FC. CONNECTOR L714 LB73GAAC-001 CHIP FERRITE CN807 E40-6580-05 FC. CONNECTOR L715 LB2-1101-05 CHIP FERRITE CN807 E40-6580-05 FC. CONNECTOR L717 LB2-1101-05 CHIP FERRITE CN801 RK74HB1J100 NET RESISTOR 1 | | | | | | | | | | |
| L626 | | L41-1098-14 | CHIP INDUCTOR | | | | E23-1278-05 | TERMINAL | | |
| L700 | | | | | | | | | | |
| L701 | | | | 10uH | | | | | | |
| L702 | | | | | | | | | | |
| L776 | | | | | | | | | | |
| L713 | | | | | | CN783 | | | | |
| L714 | | | | 4.7uH | | | | | | |
| L716 | | | | | | | | | | |
| L716 | | | | | | | | | | |
| L717 | | | | | | | | | 10.0.1/16W J | |
| L718 | | | | | | | | | | |
| L720 | | L92-1101-05 | | | | | RK74HB1J103J | | | |
| L721 | | | | | | | | | | |
| L722 LB73G0AK-001 CHIP FERRITE CP706 RK74HB1J100J NET RESISTOR 10Ω 1/16W J L723 LB73H0AV-002 CHIP FERRITE CP706 RK74HB1J101J NET RESISTOR 10ΩΩ 1/16W J L724 LB73G0AK-001 CHIP FERRITE CP707 RK74HB1J101J NET RESISTOR 10ΩΩ 1/16W J L725 LB73H0AV-002 CHIP FERRITE CP709 RK74HB1J101J NET RESISTOR 10ΩΩ 1/16W J L726 L79-1984-05 FILTER CP710 RK74HB1J101J NET RESISTOR 10ΩΩ 1/16W J L728 L79-1984-05 FILTER CP711 RK74HB1J101J NET RESISTOR 10ΩΩ 1/16W J L729 L79-1984-05 FILTER CP716 RK74HB1J101J NET RESISTOR 10ΩΩ 1/16W J L729 L79-1984-05 FILTER CP716 RK74HB1J101J NET RESISTOR 10ΩΩ 1/16W J L730 L79-1984-05 FILTER CP717 RK74HB1J470J NET RESISTOR 10ΩΩ 1/16W J L731 L79-1984-05 FILTER CP718 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L731 L79-1984-05 FILTER CP719 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L732 L92-1101-05 CHIP FERRITE CP719 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L901 LB73H0AV-003 CHIP FERRITE CP719 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L902 LB73H0AV-003 CHIP FERRITE CP720 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L902 LB73H0AV-003 CHIP FERRITE CP720 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J4100J NET RESISTOR 10Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP901 RK74HB1J470J NET RESISTOR 10Ω 1/16W J L907 LB73G0BA-005 DC-DC CONVERTER E100 F10-3224-15 SHIELDING CASE CN2 E23-1260-14 TERMINAL E600 F10-3224-15 SHIELDING CASE CN3 E23-1260-14 TERMINAL E600 F10-3224-15 SHIELDING CASE CN4 E41-1682-05 PIN ASSY F1 F53-0286-05 FUSE CN4 E41-1682-05 PIN ASSY F1 F53-0286-05 FUSE CN4 E41-1682-05 TERMINAL F3 FZA10BS-5R0 FUSE (CC) CN17 E23-1278-05 TERMINAL F90 F53-0286-05 FUSE CN102 E23-1278-05 TERMINAL F90 F63-0286-05 FUSE CN102 E23-1278-05 TERMINAL F90 F63-0286-05 FUSE CN102 E23-1278-05 TERMINAL F90 F63-0286-05 FUSE CN106 E23-1278-05 TERMINAL J900 E18-001-00 3.5D PHONE JACK | | | | | | | | | | |
| L723 | | | | | | | | | | |
| L724 | | | | | | | | | | |
| L726 | | | | | | | | NET RESISTOR | | |
| L728 L79-1984-05 FILTER CP711 RK74HB1J101J NET RESISTOR 100Ω 1/16W J L729 L79-1984-05 FILTER CP716 RK74HB1J470J NET RESISTOR 100Ω 1/16W J L730 L79-1984-05 FILTER CP717 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L731 L79-1984-05 FILTER CP718 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L732 L92-1101-05 CHIP FERRITE CP719 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L901 LB73H0AV-003 CHIP FERRITE CP720 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L902 LB73H0AV-003 CHIP FERRITE CP721 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L902 LB73G0BA-004 CHIP FERRITE CP721 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP901 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP901 RK74HB1J470J < | | | | | | | | | | |
| L729 L79-1984-05 FILTER CP716 RK74HB1J101J NET RESISTOR 100Ω 1/16W J L730 L79-1984-05 FILTER CP717 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L731 L79-1984-05 FILTER CP718 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L732 L92-1101-05 CHIP FERRITE CP719 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L901 LB73H0AV-003 CHIP FERRITE CP720 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L902 LB73H0AV-003 CHIP FERRITE CP721 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L906 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J100J NET RESISTOR 10Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J100J NET RESISTOR 10Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J470J NET RESISTOR 10Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J470J | | | | | | | | | | |
| L730 L79-1984-05 FILTER CP717 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L731 L79-1984-05 FILTER CP718 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L732 L92-1101-05 CHIP FERRITE CP719 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L901 LB73H0AV-003 CHIP FERRITE CP720 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L902 LB73G0BA-004 CHIP FERRITE CP921 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L906 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J470J <td></td> | | | | | | | | | | |
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| L902 LB73H0AV-003 CHIP FERRITE CP721 RK74HB1J470J NET RESISTOR 47Ω 1/16W J L906 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J100J NET RESISTOR 10Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP901 RK74HA1J100J NET RESISTOR 10Ω 1/16W J E2 F10-3226-05 SHIELDING CASE A1 W02-3785-05 DC-DC CONVERTER E100 F10-3244-15 SHIELDING CASE CN2 E23-1260-14 TERMINAL E101 F18-0017-10 SHIELDING CASE CN3 E23-1260-14 TERMINAL E600 F10-3224-15 SHIELDING CASE CN4 E41-1682-05 PIN ASSY F1 F53-0286-05 FUSE CN12 J19-5386-05 HOLDER F2 FZA10BS-5R0 FUSE (CC) CN17 E23-1278-05 TERMINAL F3 FZA10BS-5R0 FUSE (CC) CN18 E23-1278-05 TERMINAL F900 F53-0286-05 FUSE CN102 E23-1278-05 TE | | | | | | | | | | |
| L906 LB73G0BA-004 CHIP FERRITE CP900 RK74HB1J100J NET RESISTOR 10Ω 1/16W J L907 LB73G0BA-004 CHIP FERRITE CP901 RK74HA1J100J NET RESISTOR 10Ω 1/16W J A1 W02-3785-05 DC-DC CONVERTER E100 F10-3224-15 SHIELDING CASE CN2 E23-1260-14 TERMINAL E101 F18-0017-10 SHIELDING CASE CN3 E23-1260-14 TERMINAL E600 F10-3224-15 SHIELDING CASE CN4 E41-1682-05 PIN ASSY F1 F53-0286-05 FUSE CN12 J19-5386-05 HOLDER F2 FZA10BS-5R0 FUSE (CC) CN17 E23-1278-05 TERMINAL F3 FZA10BS-5R0 FUSE (CC) CN18 E23-1278-05 TERMINAL F900 F53-0286-05 FUSE CN102 E23-1278-05 TERMINAL J700 E68-0426-05 JACK OTHERS CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | | | CHIP FERRITE | | | CP720 | | | | |
| L907 LB73G0BA-004 CHIP FERRITE CP901 RK74HA1J100J NET RESISTOR 10Ω 1/16W J A1 W02-3785-05 DC-DC CONVERTER E100 F10-3226-05 SHIELDING CASE CN2 E23-1260-14 TERMINAL E101 F18-0017-10 SHIELDING CASE CN3 E23-1260-14 TERMINAL E600 F10-3224-15 SHIELDING CASE CN4 E41-1682-05 PIN ASSY F1 F53-0286-05 FUSE CN12 J19-5386-05 HOLDER F2 FZA10BS-5R0 FUSE (CC) CN17 E23-1278-05 TERMINAL F3 FZA10BS-5R0 FUSE (CC) CN18 E23-1278-05 TERMINAL F900 F53-0286-05 FUSE CN102 E23-1278-05 TERMINAL J700 E68-0426-05 JACK OTHERS CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | | | | | | | | | | |
| E2 F10-3226-05 SHIELDING CASE | | | | | | | | | | |
| A1 W02-3785-05 DC-DC CONVERTER E100 F10-3244-15 SHIELDING CASE CN2 E23-1260-14 TERMINAL E101 F1B-0017-10 SHIELDING CASE CN3 E23-1260-14 TERMINAL E600 F10-3224-15 SHIELDING CASE CN4 E41-1682-05 PIN ASSY F1 F53-0286-05 FUSE CN12 J19-5386-05 HOLDER F2 FZA10BS-5R0 FUSE (CC) CN17 E23-1278-05 TERMINAL F3 FZA10BS-5R0 FUSE (CC) CN18 E23-1278-05 TERMINAL F900 F53-0286-05 FUSE CN102 E23-1278-05 TERMINAL J700 E68-0426-05 JACK OTHERS CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | L907 | LB/3GUBA-UU4 | CUIL LEKKITE | | | | | | 1075 1/10AA J | |
| CN2 E23-1260-14 TERMINAL E101 F1B-0017-10 SHIELDING CASE CN3 E23-1260-14 TERMINAL E600 F10-3224-15 SHIELDING CASE CN4 E41-1682-05 PIN ASSY F1 F53-0286-05 FUSE CN12 J19-536-05 HOLDER F2 FZA10BS-5R0 FUSE (CC) CN17 E23-1278-05 TERMINAL F3 FZA10BS-5R0 FUSE (CC) CN102 E23-1278-05 TERMINAL F900 F53-0286-05 FUSE CN106 E23-1278-05 TERMINAL J700 E68-0426-05 JACK OTHERS CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | A1 | W02-3785-05 | DC-DC CONVERTER | 1 | | | | | | |
| CN3 E23-1260-14 TERMINAL E600 F10-3224-15 SHIELDING CASE CN4 E41-1682-05 PIN ASSY F1 F53-0286-05 FUSE CN12 J19-5386-05 HOLDER F2 FZA10BS-5R0 FUSE (CC) CN17 E23-1278-05 TERMINAL F3 FZA10BS-5R0 FUSE (CC) CN18 E23-1278-05 TERMINAL F900 F53-0286-05 FUSE CN102 E23-1278-05 TERMINAL J700 E68-0426-05 JACK OTHERS CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | | | | | | | | | | |
| CN12 J19-5386-05 HOLDER F2 FZA10BS-5R0 FUSE (CC) CN17 E23-1278-05 TERMINAL F3 FZA10BS-5R0 FUSE (CC) CN18 E23-1278-05 TERMINAL F900 F53-0286-05 FUSE CN102 E23-1278-05 TERMINAL J700 E68-0426-05 JACK OTHERS CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | CN3 | E23-1260-14 | TERMINAL | | | E600 | F10-3224-15 | SHIELDING CASE | | |
| CN17 E23-1278-05 TERMINAL F3 FZA10BS-5R0 FUSE (CC) CN18 E23-1278-05 TERMINAL F900 F53-0286-05 FUSE CN102 E23-1278-05 TERMINAL J700 E68-0426-05 JACK OTHERS CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | | | | | | | | | | |
| CN18 E23-1278-05 TERMINAL F900 F53-0286-05 FUSE CN102 E23-1278-05 TERMINAL J700 E68-0426-05 JACK OTHERS CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | | | | | | | | ` ' | | |
| CN102 E23-1278-05 TERMINAL J700 E68-0426-05 JACK OTHERS CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | | | | | | | | | | |
| CN106 E23-1278-05 TERMINAL J900 E1B-0001-00 3.5D PHONE JACK | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| ⚠ Symbol No. | Part No. | Part Name | Description Local |
|---|---|---|---|
| OT1 OT2 OT3 OT4 TH300 TH301 TH302 TH700 X700 X701 XF600 | F10-3223-05 F10-3225-05 F10-3243-15 F1B-0021-00 ERTJ0V104H ERTJ0V104H ERTJ0V104H L77-3123-05 L77-1802-05 L7B-0003-00 | SHIELDING COVER SHIELDING COVER SHIELDING COVER SHIELDING COVER N THERMISTOR N THERMISTOR N THERMISTOR N THERMISTOR TCXO QUARTZ CRYSTAL MCF | BLS COVER(IFIC) BLS COVER(DCDC54M) BLS COVER(PLL IC) BLS COVER(VCO) |

MODULE (BT/GPS) UNIT

XC2-0031-80(NX-5700B_F, NX-5700_K, NX-5700B_K)
XC2-0040-10(NX-5700_K, NX-5700B_K, NX-5700_E)
*Note: This part cannot be replaced. Therefore, this part is not supplied as a service part.

Block No. [0][2]

⚠ Symbol No. Part No.

| ⚠ Symbol No. | Part No. | Part Name | Description Local |
|--|---|---|--|
| IC1 IC2 IC3 IC4 IC5 IC6 | 74AVC4TD245GU BU18TD2WNVX | MOS IC MOS IC ANALOG IC BIPOLAR IC MOS IC MOS IC MOS IC | *Note |
| Q1 | EM6M2 | FET | |
| D17 D18 | RN262CS RN262CS | DIODE DIODE | |
| C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C34 C35 C34 C35 C36 C37 | CK73HB1A474K CK73HB1A474K CK73HB1E104K CK73HB1E104K CK73HB1E104K CK73HB1A105K CK73HB1A474K CK73HB1A474K CC73HCH1H100B CK73HB1E104K CK73HB1H102K CK73HB1H104K CK73HB1E104K | C CAPACITOR C C C C C C C C C C C C C C C C C C C | 0.47uF 10V K 0.47uF 10V K 0.10uF 25V K 0.10uF 25V K 1uF 10V K 0.47uF 10V K 0.10uF 50V B 1uF 10V K 0.10uF 25V K 18pF 50V J 1uF 10V K 0.10uF 25V K 1000pF 50V K 0.10uF 25V K |

| C38 C39 C40 C44 C45 C46 C47 C48 C49 C50 C68 | CC73HCH1H2R5B CK73HB1E104K CC73HCH1H180J CK73HB1E104K CK73HB1E104K CK73HB1E104K CK73HB1E104K CK73HB1E104K CK73HB1E104K CK73HB1E104K CK73HB1E104K CC73HCH1H470J CC73HCH1H010B | C CAPACITOR | 2.5pF 50V B 0.10uF 25V K 18pF 50V J 0.10uF 25V K 0.10uF 25V K 0.10uF 25V K 0.10uF 25V K 0.10uF 25V K 0.10uF 25V K 0.10uF 25V K 47pF 50V J 1pF 50V B |
|--|--|---|--|
| R1 R2 R3 R4 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R18 R21 R22 R23 R24 R25 R27 R26 R27 | RK73HB1J101J RK73HB1J103J RK73HB1J103J RK73HB1J101J RK73HB1J101J RK73HB1J102J RK73HB1J102J RK73HB1J102J RK73HB1J102J RK73HB1J473J RK73HB1J473J RK73HB1J102J RK73HB1J102J RK73HB1J102J RK73HB1J102J RK73HB1J102J RK73HB1J102J RK73HB1J103J RK73HB1J103J RK73HB1J103J RK73HB1J103J RK73HB1J103J RK73HB1J103J RK73HB1J103J RK73HB1J1003J RK73HB1J1003J RK73HB1J1003J RK73HB1J1003J RK73HB1J1003J RK73HB1J1000J RK73HB1J1000J RK73HB1J1000J | MG RESISTOR | 100Ω 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 100Ω 1/16W J 100Ω 1/16W J 100kΩ 1/16W J 100kΩ 1/16W J 100kΩ 1/16W J 100kΩ 1/16W J 16Ω 1/16W J 10Ω 1/16W J |
| L1 L2 L3 L4 L5 L6 L7 L8 L9 L11 L13 L14 L15 | LB73H0AV-002 LB73G0AK-001 LB73G0BJ-002 L92-0487-05 L92-0487-05 LK73H0AG27NJ LK73H0AM10NJ L92-0487-05 L79-1985-05 L79-1987-05 L92-0487-05 L92-0487-05 L40-2263-71 | CHIP FERRITE CHIP FERRITE CHIP FERRITE CHIP FERRITE CHIP FERRITE M.CHIP INDUCTOR M.CHIP INDUCTOR CHIP FERRITE FILTER FILTER CHIP FERRITE CHIP FERRITE CHIP INDUCTOR | 27nH 10nH |
| CN1 CN5 CP1 CP2 E1 X1 X2 | E40-6879-05 E0E-0012-00 RK74HB1J100J RK74HB1J100J F10-3226-05 L77-3123-05 L77-3121-05 | F.C.CONNECTOR RF C.RECEPTACLE NET RESISTOR NET RESISTOR SHIELDING CASE TCXO QUARTZ CRYSTAL | 10Ω 1/16W J 10Ω 1/16W J |

Part Name

Description

Local

| SUB U | | 00_K, NX-5700_ | E) | | ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|--------------------------------|----------------------------|------------------------------|--------|--------------|-------------------------------|----------------------------|-------------------------------|-------|
| | | | . - / | | C65 | CK73HBB1E103K | C CAPACITOR | 0.01uF 25V K | |
| XC3-00 |)20-20(NX-57 | 00_K) | | | C66 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| | | | Block No. | [0][3] | C67 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| | | | | 1-31-3 | C68 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| ⚠ Symbol No. | Part No. | Part Name | Description | Local | C69 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| | | | | | C70 C71 | CK73GBB1H102K | | 1000pF 50V K | |
| IC1 | MM3404A50URE | MOS IC | | | C73 | CK73GXR1H104K CK73HB1E104K | C CAPACITOR | 0.1uF 50V K 0.10uF 25V K | |
| IC2 | BU30TD2WNVX | MOS IC | | | C74 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | |
| IC3 | TC7WT125FUF | MOS IC | | | C75 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | |
| IC4 | BD11600NUX | MOS IC | | | C76 | CK73GBB1H102K | | 1000pF 50V K | |
| IC6 | BH1721FVC | MOS IC | | | C79 | CK73GBB1H102K | | 1000pF 50V K | |
| IC8 IC9 | BD1754HFN TC7WH126FK | MOS IC MOS IC | | | C83 C84 | CK73HB1E104K CK73HB1E104K | C CAPACITOR C CAPACITOR | 0.10uF 25V K 0.10uF 25V K | |
| IC10 | TC35894FG | MOS IC | | | C87 | CC73HCH1H101J | | 100pF 50V J | |
| IC12 | TC7SZ08FE | MOS IC | | | C90 | CK73GBB1H102K | | 1000pF 50V K | |
| | | | | | C101 | CK73GBB1H102K | C CAPACITOR | 1000pF 50V K | |
| Q2 | SSM6N37FE LTC014EEBFS8 | FET DIGI TRANSISTOR | | | Do | RK73HB1J000J | MC DECISTOR | 00.4/46/M 1 | |
| Q3 Q4 | LTC014EEBFS8 | DIGI TRANSISTOR | | | R3 R4 | RK73HB1J000J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 0Ω 1/16W J | |
| Q6 | LTC014EEBFS8 | DIGI TRANSISTOR | | | R5 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| | | | | | R6 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| D1 | SPC10501A01 | VARISTOR | | | R7 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| D2 | SPC10501A01 | VARISTOR | | | R9 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| D4 D5 | B30-2365-05 B30-2365-05 | LED LED | | | R10 R11 | RK73HB1J000J RK73HB1J000J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 0Ω 1/16W J | |
| D6 | B30-2365-05 | LED | | | R12 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| D7 | B30-2365-05 | LED | | | R17 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| D9 | B30-2365-05 | LED | | | R18 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| D10 | B30-2365-05 | LED | | | R19 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| D11 D12 | B30-2365-05 B30-2365-05 | LED LED | | | R20 R21 | RK73HB1J101J RK73HB1J331J | MG RESISTOR MG RESISTOR | 100Ω 1/16W J 330Ω 1/16W J | |
| D14 | B30-2365-05 | LED | | | R22 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| D15 | B30-2365-05 | LED | | | R23 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| D16 | B30-2365-05 | LED | | | R24 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| D20 D21 | DZ2J062(M) | ZENER DIODE LED | | | R25 R26 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| D21 D22 | B30-2364-05 RB521CM-30 | DIODE | | | R27 | RK73HB1J222J RK73HB1J331J | MG RESISTOR MG RESISTOR | 2.2kΩ 1/16W J 330Ω 1/16W J | |
| D23 | SPC10501A01 | VARISTOR | | | R28 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| D24 | SPC10501A01 | VARISTOR | | | R29 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| D25 | MINISMDC020F | VARISTOR | | | R30 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| D26 D27 | SPC10501A01 SPC10501A01 | VARISTOR VARISTOR | | | R31 R32 | RK73HB1J101J RK73HB1J331J | MG RESISTOR MG RESISTOR | 100Ω 1/16W J 330Ω 1/16W J | |
| D28 | DZ2S068M | ZENER DIODE | | | R33 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| D29 | DZ2S068M | ZENER DIODE | | | R34 | RK73HB1J331J | MG RESISTOR | 330Ω 1/16W J | |
| D30 | DZ2S068M | ZENER DIODE | | | R38 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| D31 D32 | EMZ6.8N DZ2S068M | ZENER DIODE ZENER DIODE | | | R39 R40 | RK73HB1J101J RK73HB1J101J | MG RESISTOR MG RESISTOR | 100Ω 1/16W J 100Ω 1/16W J | |
| D32 | DZZSOOOW | ZENEK DIODE | | | R41 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| C2 | CC73GCH1H101J | C CAPACITOR | 100pF 50V J | | R42 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| C5 | CK73GXR1H104K | C CAPACITOR | 0.1uF 50V K | | R43 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| C8 | C93-1810-05 | C CAPACITOR | 4.7uF 50V | | R46 | RK73HB1J681J | MG RESISTOR | 680Ω 1/16W J | |
| C9 C11 | CC73GCH1H101J CK73GXR1H104K | | 100pF 50V J 0.1uF 50V K | | R47 R48 | RK73HB1J103J RK73GB2A151J | MG RESISTOR MG RESISTOR | 10kΩ 1/16W J 150Ω 1/10W J | |
| C16 | CC73GCH1H101J | | 100pF 50V J | | R49 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W J | |
| C18 | CK73GXR1H104K | | 0.1uF 50V K | | R50 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W J | |
| C22 | CC73GCH1H101J | | 100pF 50V J | | R51 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W J | |
| C24 C29 | CK73GXR1H104K | | 0.1uF 50V K 100pF 50V J | | R52 R53 | RK73HB1J102J | MG RESISTOR | 1kΩ 1/16W J | |
| C32 | CC73GCH1H101J CC73GCH1H101J | | 100pF 50V J | | R53 R54 | RK73HB1J103J RK73HB1J473J | MG RESISTOR MG RESISTOR | 10kΩ 1/16W J 47kΩ 1/16W J | |
| C42 | CC73GCH1H470J | | 47pF 50V J | | R55 | RK73HB1J473J | MG RESISTOR | 47kΩ 1/16W J | |
| C43 | CC73GCH1H470J | | 47pF 50V J | | R60 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| C44 | CC73HCH1H101J | | 100pF 50V J | | R61 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| C45 C46 | CK73GBB1H102K CK73GBB1H102K | | 1000pF 50V K 1000pF 50V K | | R62 R63 | RK73HB1J000J RK73HB1J000J | MG RESISTOR MG RESISTOR | 0Ω 1/16W J 0Ω 1/16W J | |
| C48 | CK73GBB1H102K | | 1000pF 50V K | | R64 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| C50 | CK73GBB1H102K | | 1000pF 50V K | | R65 | RK73HB1J000J | MG RESISTOR | 0Ω 1/16W J | |
| C52 | CC73HCH1H101J | | 100pF 50V J | | R66 | RK73HB1J101J | MG RESISTOR | 100Ω 1/16W J | |
| C53 | CC73HCH1H101J | | 100pF 50V J | | R69 | RK73HH1J274D | MG RESISTOR | 270kΩ 1/16W D | |
| C54 C55 | CK73GB1E105K CC73HCH1H101J | C CAPACITOR C CAPACITOR | 1uF 25V K 100pF 50V J | | R71 R77 | RK73GB2A000J RK73HB1J222J | MG RESISTOR MG RESISTOR | 0Ω 1/10W J 2.2kΩ 1/16W J | |
| C56 | CC73HCH1H101J | C CAPACITOR | 100pF 50V J | | R78 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W J | |
| C57 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | | R79 | RK73HB1J222J | MG RESISTOR | $2.2k\Omega$ 1/16W J | |
| C58 | CK73GB1E105K | C CAPACITOR | 1uF 25V K | | R81 | RK73HB1J103J | MG RESISTOR | 10kΩ 1/16W J | |
| C59 C62 | CK73GB1E105K CK73HB1E104K | C CAPACITOR C CAPACITOR | 1uF 25V K 0.10uF 25V K | | R82 R83 | RK73HB1J222J RK73HB1J000J | MG RESISTOR MG RESISTOR | 2.2kΩ 1/16W J 0Ω 1/16W J | |
| C62 C63 | CK73GB1E104K | C CAPACITOR | 1uF 25V K | | R86 | RK73GB2A000J | MG RESISTOR | 0Ω 1/10W J 0Ω 1/10W J | |
| C64 | CK73HB1E104K | C CAPACITOR | 0.10uF 25V K | | R87 | RK73HB1J222J | MG RESISTOR | 2.2kΩ 1/16W J | |
| | | | | | | | | | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|--|---|-------|
| R88 R98 R99 | RK73HB1J102J RK73HB1J222J RK73HB1J222J | MG RESISTOR MG RESISTOR MG RESISTOR | 1kΩ 1/16W J 2.2kΩ 1/16W J 2.2kΩ 1/16W J | |
| L1 L2 L3 L4 L5 L11 L14 L15 L16 L17 | LB73G0AM-004 LB73G0AM-004 LB73H0AV-003 LB73H0AV-003 LB73G0AM-004 LB73H0AV-003 LB73G0AM-004 LB73H0AV-003 LB73H0AV-003 LB73H0AV-003 LB73H0AV-003 | CHIP FERRITE | | |
| CN2 CN4 CN5 CN6 J1 S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 | E41-2673-05 E40-6965-05 E41-2671-05 E40-6913-05 E58-0535-05 S70-0901-05 | PIN ASSY F.C.CONNECTOR PIN ASSY F.C.CONNECTOR MODULAR JACK TACTILE PUSH SW | | |

Packing materials and accessories parts list (NX-5700_K, NX-5700_E)

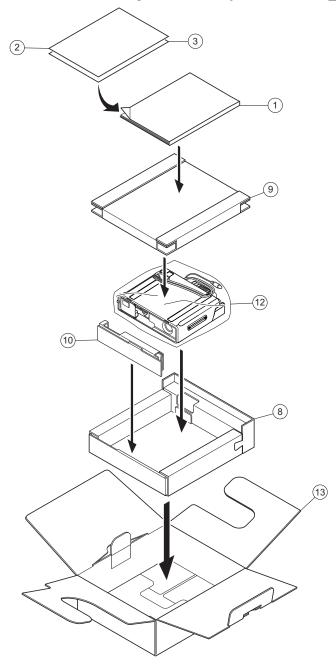
Block No.M2MM

Packing and accessories

| ⚠ Symbol No. | Part No. | Part Name | Description | Block No. [M][2][M][M] |
|--------------|-------------|-----------------|--------------|------------------------|
| 1 | B5A-0056-00 | INST.MANUAL | | NX-5700(K) |
| 1 | B5A-0806-00 | INST.MANUAL | 9 LANGUAGE | NX-5700(E) |
| 2 | | PAMPHLET | HOT SURFACE | . , |
| 3 | | PAMPHLET | FCC 60cm | NX-5700(K) |
| 3 | | PAMPHLET | ROHS2 | NX-5700(E) |
| 5 | E30-7523-65 | DC CORD ASSY | ACC | • • |
| 6 | F52-0024-05 | FUSE | ACC(15A)(x2) | |
| 7 | H0C-0008-00 | INNER CARTON | FOR ACC | |
| 8 | H1C-0029-00 | PACKING FIXTURE | LOWER | |
| 9 | H1C-0030-00 | PACKING FIXTURE | UPPER | |
| 11 | | PROTECTION BAG | RADIO | |
| 14 | H5A-0235-00 | ITEM CARTON | NX-5700 | |
| 15 | J19-1584-15 | HOLDER | ACC(MIC) | |
| 16 | | BRACKET | ACC | |
| 17 | N99-2039-05 | SCREW SET | ACC | |
| 18 | T91-0639-65 | MICROPHONE | ACC | |

Packing materials and accessories parts list (NX-5700B_F, NX-5700B_K)

Block No.M3MM



Packing and accessories

| ⚠ Symbol No. | Part No. | Part Name | Description | Block No. [M][3][M][M] |
|--------------|-------------|-----------------|-------------|------------------------|
| 1 | B5A-0056-00 | INST.MANUAL | | |
| 2 | | PAMPHLET | HOT SURFACE | |
| 3 | | PAMPHLET | FCC 60cm | |
| 8 | H1C-0012-10 | PACKING FIXTURE | LOWER | NX-5700(B)(F) |
| 8 | H1C-0029-00 | PACKING FIXTURE | LOWER | NX-5700(B)(K) |
| 9 | H1C-0013-10 | PACKING FIXTURE | UPPER | NX-5700(B)(F) |
| 9 | H1C-0030-00 | PACKING FIXTURE | UPPER | NX-5700(B)(K) |
| 10 | H1C-0027-00 | PACKING FIXTURE | SPACER | NX-5700(B)(F) |
| 10 | H1C-0031-00 | PACKING FIXTURE | SPACER | NX-5700(B)(K) |
| 12 | | ANTI-STATIC BAG | RADIO | () () |
| 13 | H5A-0014-00 | ITEM CARTON | NX-5700B | NX-5700(B)(F) |
| 13 | H5A-0234-00 | ITEM CARTON | NX-5700B | NX-5700(B)(K) |

MEMO



JVC KENWOOD Corporation
Communications Systems Business Unit