

NXR-800H

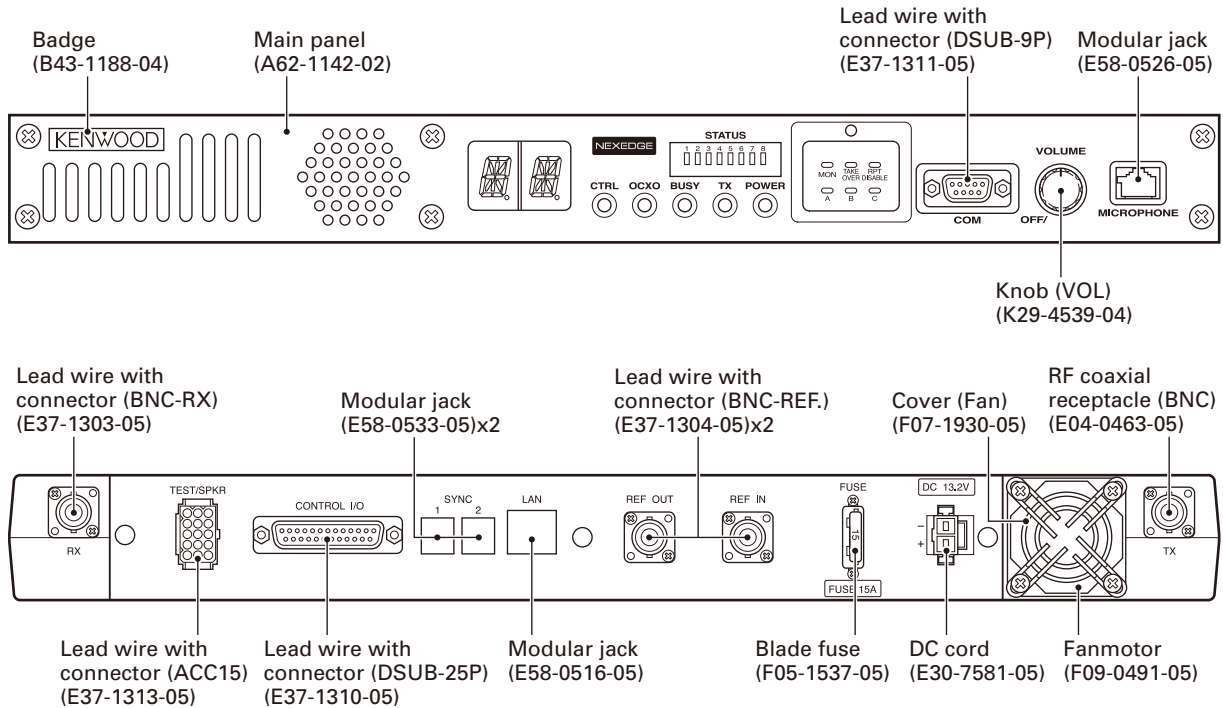
SERVICE MANUAL / 维修手册

C, C2 versions / C, C2 版本

KENWOOD

Kenwood Corporation

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无铅焊接通信产品

保护环境建伍领先

⚠ 注意：本产品是无铅化焊接产品
在维修时请使用无铅焊锡
和相应的焊接工具
详细事项请访问如下网址了解：
<http://www.kenwoodhk.com.hk/>



NXR-800H

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GENERAL / 概述

INTRODUCTION

SCOPE OF THIS MANUAL

This manual is intended for use by experienced technicians familiar with similar types of commercial grade communications equipment. It contains all required service information for the equipment and is current as of the publication date. Changes which may occur after publication are covered by either Service Bulletins or Manual Revisions. These are issued as required.

ORDERING REPLACEMENT PARTS

When ordering replacement parts or equipment information, the full part identification number should be included. This applies to all parts : components, kits, or chassis. If the part number is not known, include the chassis or kit number of which it is a part, and a sufficient description of the required component for proper identification.

PERSONAL SAFETY

The following precautions are recommended for personal safety :

- DO NOT transmit if someone is within two feet (0.6 meter) of the antenna.
- DO NOT transmit until all RF connectors are secure and any open connectors are properly terminated.
- SHUT OFF this equipment when near electrical blasting caps or while in an explosive atmosphere.
- All equipment should be properly grounded before power up for safe operation.
- This equipment should be serviced by only qualified technicians.

SERVICE

This transceiver is designed for easy servicing. Refer to the schematic diagrams, printed circuit board views, and alignment procedures contained within.

引言

本手册的范围

本手册是提供给熟悉通信专业并且具有维修经验的技术人员使用的。它包括了维修该设备所需要的全部资料和现行出版日期。在出版后可能发生变动，如果需要，可以参照《维修通报》或《手册修订本》进行补充。

替换零件的订购

当订购替换零件或设备资料时，应注意完整的零件识别号码。所有的零件均有识别号码：元件，组件或机壳。如果不知道零件的号码，为了正确地识别，必须注明此元件所属的机壳或组件的号码，并对元件进行充分的说明。

个人安全

为了个人的安全，请注意下列事项：

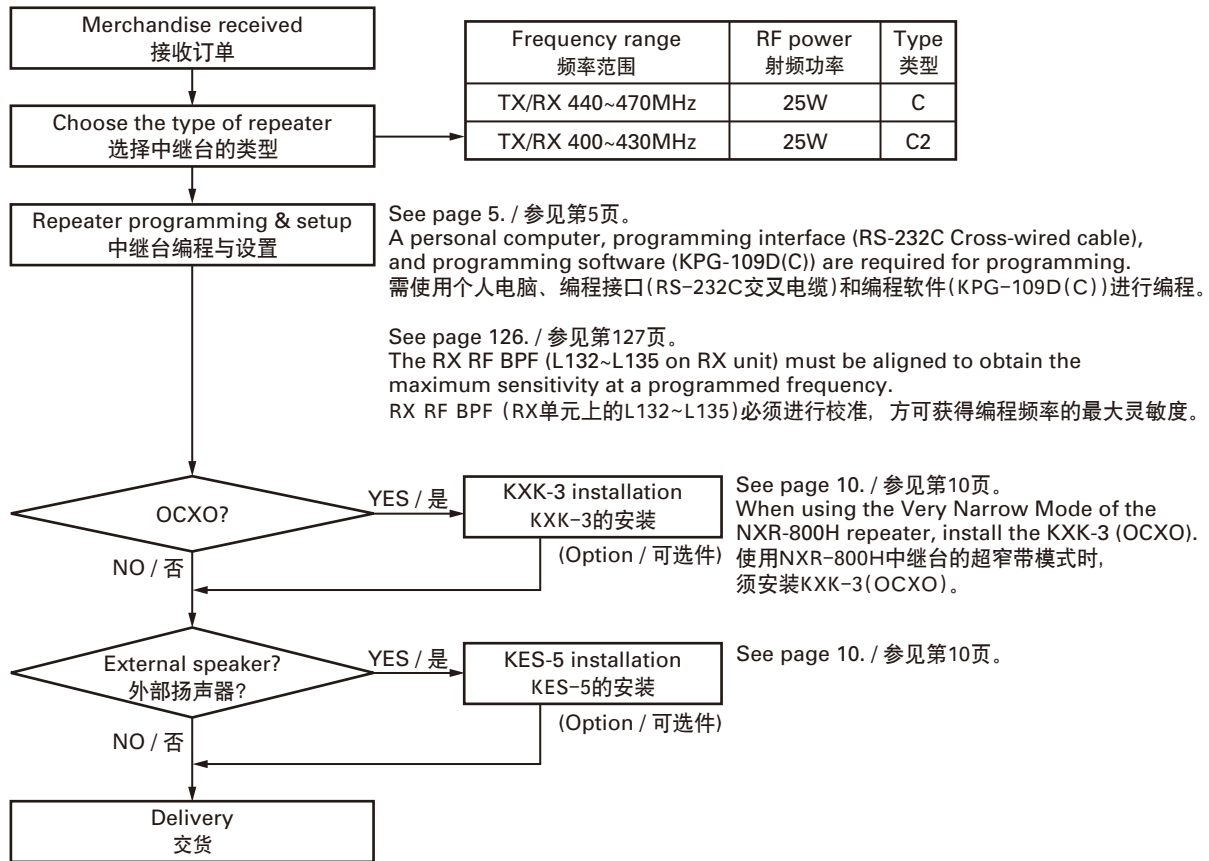
- 如果有人在天线两英尺 (0.6 米) 范围之内时，不要进行发射。
- 在没有认真核实所有射频插头之前或有任何一个脱开的插头没有连接到相应端口上的情况下均不要发射。
- 在电爆管附近或在易燃性气体环境中，必须关闭电源，不要操作本设备。
- 为了操作的安全，在接通电源之前所有设备应该连接地线。
- 本设备只应该由有资格的技术人员进行维修。

维修服务

为了便于维修本设备，建立了完整的维修服务体系，提供了包括原理图，印刷电路板图和调整步骤在内的资料供参考。

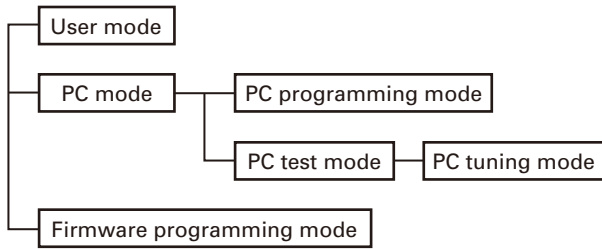
NXR-800H

SYSTEM SET-UP / 系统体系



REALIGNMENT / 模式组合

1. Modes



Mode	Function
User mode	Use this mode for normal operation.
PC mode	Use this mode to make various settings by means of the FPU through the RS-232C port.
PC programming mode	Use to read and write frequency data and other features to and from the repeater.
PC test mode	Use to check the repeater using the PC. This feature is included in the FPU.
Firmware programming mode	Use when changing the firmware program of the flash memory.

2. How to Enter Each Mode

Mode	Operation
User mode	Power on.
PC mode	Received commands from PC.
Firmware programming mode	Received commands from PC.

3. PC Mode

3-1. Preface

The NXR-800H repeater is programmed by using a personal computer, programming interface and KPG-109D(C) software.

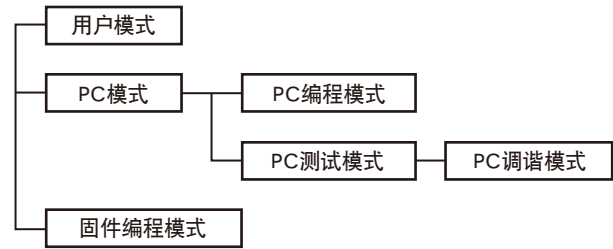
3-2. Connection Procedure

1. Connect the NXR-800H to the personal computer with the interface cable.
2. When power is applied, the user mode is entered immediately. When the PC sends a command, the repeater enters the PC mode and displays "PC" on the 17-segment LED. When data is being transmitted to the PC from the repeater, the TX LED flashes. The BUSY LED flashes when data from the PC is being received by the repeater.

Note:

- The data stored in the personal computer must match the model type, when it is written into the flash memory.
- Change the NXR-800H to PC mode, then attach the RS-232C Cross-wired cable.

1. 模式



模式	功能
用户模式	用此模式进行一般操作。
PC模式	用此模式通过 RS-232C 端口利用 FPU 进行各种设置。
PC编程模式	用于将频率数据及其它功能写入到中继台或从中继台读取。
PC测试模式	用于通过 PC 检查中继台。该功能内置于 FPU 中。
固件编程模式	更改闪存的固件程序时使用。

2. 如何进入每一种模式

模式	操作
用户模式	接通电源
PC模式	从计算机接收指令
固件编程模式	从计算机接收指令

3. PC 模式

3-1. 前言

NXR-800H 中继台通过个人电脑、编程接口和 KPG-109D(C) 软件进行编程。

3-2. 连接操作

1. 用接口电缆将 NXR-800H 连接到个人电脑。
2. 接通电源时，即可进入用户模式。PC 发出指令时，中继台进入 PC 模式并在 17 段 LED 上显示 "PC"。当数据从中继台传送到 PC 时，TX LED 闪烁。中继台接收 PC 的数据时，BUSY LED 闪烁。

注意：

- 个人电脑储存的数据写入闪存时，必须与机型相符。
- 将 NXR-800H 改为 PC 模式，然后连接 RS-232C 交叉电缆。

NXR-800H

REALIGNMENT / 模式组合

3-3. KCT-53U Description (USB adapter: Option)

The KCT-53U is cable which connects the RS-232C Cross-wired cable to a USB port on a computer.

When using the KCT-53U, install the supplied CD-ROM (with driver software) in the computer. The KCT-53U driver runs under Windows 2000, XP or Vista (32-bit).

3-4. Programming Software Description

The KPG-109D(C) is the programming software for NXR-800H supplied on a CD-ROM. This software runs under Windows 2000, XP or Vista (32-bit) on a PC.

The data can be input to or read from NXR-800H and edited on the screen. The programmed or edited data can be printed out. It is also possible to tune the repeater.

3-5. Programming With PC

Data can be programmed into the flash memory in RS-232C format via the COM connector.

3-3. KCT-53U 说明 (USB 适配器: 选配件)

KCT-53U 是将 RS-232C 交叉电缆连接到电脑 USB 端口的电缆。

使用 KCT-53U 时, 请在电脑上安装附带的 CD-ROM (含有驱动程序软件)。KCT-53U 驱动程序在 Windows 2000、XP 或 Vista(32 位) 下运行。

3-4. 编程软件说明

KPG-109D(C) 是 CD-ROM 附带的用于 NXR-800H 的编程软件。该软件在 PC 的 Windows 2000、XP 或 Vista(32 位) 下运行。

可向 NXR-800H 写入或读取数据, 并可在屏幕上进行编辑。可以打印编程或编辑的数据。此外, 还可调谐中继台。

3-5. 用 PC 编程

通过 COM 连接器可以将数据以 RS-232C 格式写入闪存。

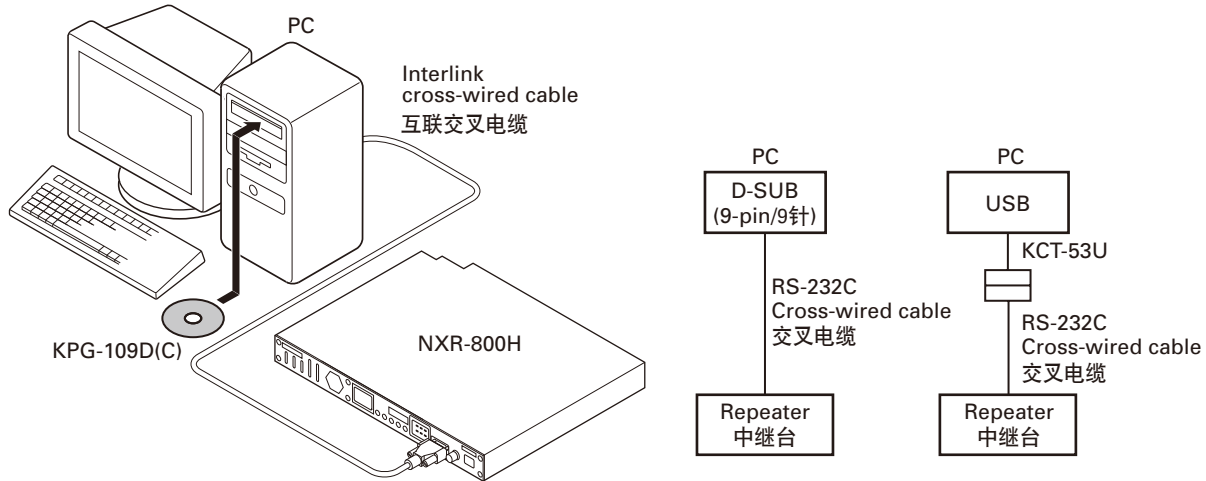


Fig. 1 / 图 1

4. Firmware Programming Mode

4-1. Preface

The NXR-800H uses flash memory to allow it to be easily upgraded when new features are released in the future.

4-2. Connection Procedure

Connect the NXR-800H to the personal computer with the RS-232C Cross-wired cable. (Connection is the same as in the PC mode.)

Note:

You can only program firmware from the DB-9 COM connector on the front panel. Using the 25-pin logic interface on the rear panel will not work.

4. 固件编程模式

4-1. 前言

NXR-800H 使用闪存, 以便于在将来发布新功能时进行升级。

4-2. 连接操作

用 RS-232C 交叉电缆将 NXR-800H 连接到个人电脑。(连接方式与 PC 模式下相同。)

注意:

您只能通过前面板的 DB-9 COM 连接器对固件进行编程。使用后面板的 25 针逻辑接口进行编程时不起作用。

REALIGNMENT / 模式组合

4-3. Programming

1. Start up the programming software (Fpro.exe (ver. 4.10 or later)).
The Fpro.exe exists in the KPG-109D(C) installed folder.
2. Set the communications speed (normally, 115200 bps) and communications port in the configuration item.
3. Set the firmware to be updated by file name item.
4. Turn the NXR-800H power on.
5. Check the connection between the NXR-800H and the personal computer, and make sure that the NXR-800H is in the program mode.
6. Press write button in the window. A window opens on the display to indicate progress of writing.
7. If writing ends successfully, the NXR-800H restarts.
8. If you want to continue programming other NXR-800Hs, repeat steps 3 to 6.

Note:

It automatically enters the firmware program mode by the writing request from the programming software (KPG-109D(C)).

4-4. Function

Baud rate is decided automatically with setting of programming software.

Note:

Normally, write in the high-speed mode (115200 bps).

■ Cross-wired cable

There are a few types of null modem cable available in the market. Make sure to use one of the following null modem cables that meets the following specifications.

Cable Specification: Null modem cable with full handshaking (cross-wired) or InterLink cable that is usually used to transfer files between PCs.

Connector Specification (both cable ends): DB-9 female

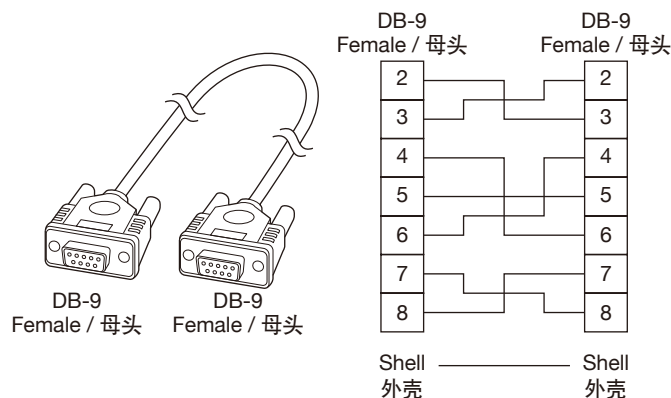


Fig. 2 / 图 2

4-3. 编程

1. 启动编程软件 (Fpro.exe (ver. 4.10 或更高版本))。
Fpro.exe 存在于 KPG-109D(C) 安装文件夹内。
2. 在配置项中设置通信速度 (通常为 115200 bps) 和通信端口。
3. 通过文件名项目设置要更新的固件。
4. 开启 NXR-800H 的电源。
5. 检查 NXR-800H 与个人电脑之间的连接, 确认 NXR-800H 处于编程模式。
6. 按窗口中的写入按钮。显示中将打开一个显示写入进程的窗口。
7. 如果写入成功完成, NXR-800H 将重新启动。
8. 若要继续为其他 NXR-800H 编程, 请重复步骤 3 至 6。

注意:

通过编程软件 (KPG-109D(C)) 的写入要求, 它会自动进入固件编程模式。

4-4. 功能

波特率由编程软件的设置自动决定。

注意:

通常以高速模式 (115200 bps) 写入。

■ 交叉电缆

市面上有几种零调制解调器电缆。请务必使用符合以下规格的零调制解调器电缆之一。

电缆规格: 全握手的零调制解调器电缆 (交叉线) 或在 PC 之间传输文件的常用互联电缆。

连接器规格 (电缆两端): DB-9 母头

NXR-800H

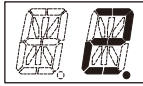
OPERATING FEATURES / 操作特性

1. Two 17-segment LED Displays

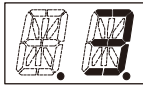
- Channel display (1~30): While operating normally in user mode.



- When the displayed channel is contained in scan sequence, the right side decimal point is displayed.



- When the displayed channel is the priority channel, the left side decimal point is displayed.



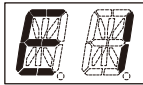
- "PC" is displayed while in PC mode.



- "PG" is displayed while in firmware programming mode.



- "E1" is displayed when FPU data is not written.



- "E2" is displayed when the channel data is not written.



- "E3" is displayed when PLL is unlocked.
Receiver PLL unlocked = BUSY LED blinks.
Transmitter PLL unlocked = TX LED blinks.



- "E4" is displayed when PTT is attempted on a channel number that has no frequency data programmed.

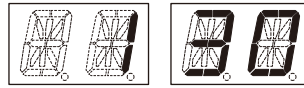


- "E5" is displayed when IP address configuration is error.



1. 两个 17 段 LED 显示

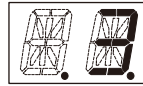
- 信道显示 (1 ~ 30): 以用户模式正常操作时。



- 显示的信道包含在扫描序列中时，显示右侧的小数点。



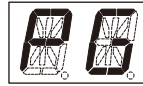
- 显示的信道为优先信道时，显示左侧的小数点。



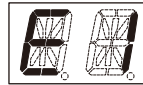
- 处于 PC 模式时，显示 "PC"。



- 处于固件编程模式时，显示 "PG"。



- 未写入 FPU 数据时，显示 "E1"。



- 未写入信道数据时，显示 "E2"。



- PLL 失锁时，显示 "E3"。
接收机 PLL 失锁 = BUSY LED 闪烁。
发射机 PLL 失锁 = TX LED 闪烁。



- 在未编写频率数据的信道上尝试 PTT 时，显示 "E4"。

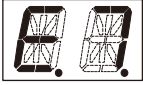


- IP 地址配置错误时，显示 "E5"。



OPERATING FEATURES / 操作特性

- "E7" is displayed when the thermal protection occurs.



- 发生过热保护时，显示“E7”。



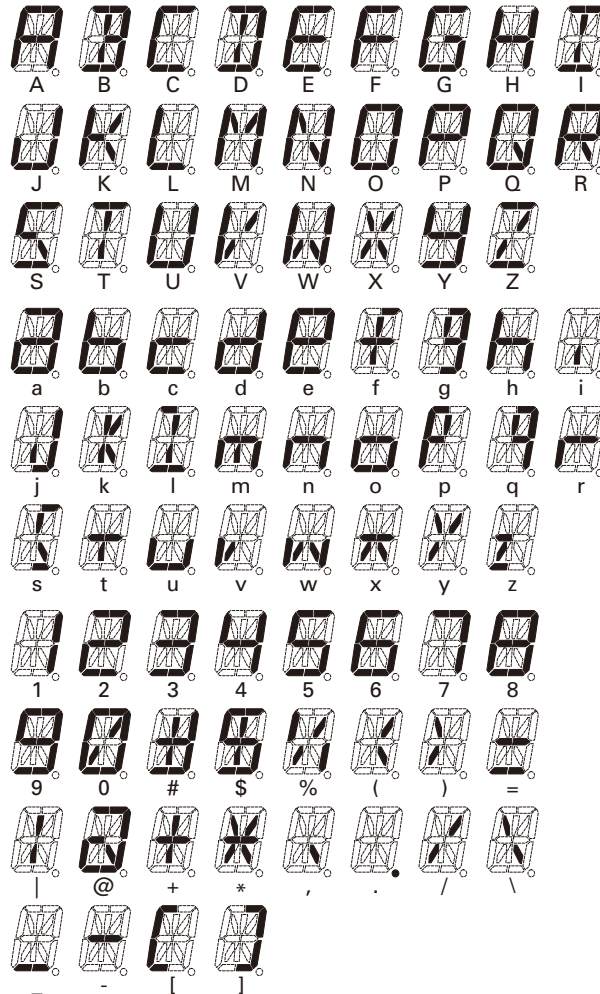
- "SC" is displayed while in scan mode.



- 处于扫描模式时，显示“SC”。



All segments ON
所有段均点亮



1. OCXO (KXK-3)

1. Before installing the KXK-3, be sure to turn the power off.
2. Remove the top cover of the TX unit.
3. Mount the KXK-3 using the 5 screws.
4. Carefully connect and lock the flat cable to CN1 and CN803, with the conductor side facing in.
5. Connect the coaxial cable to CN2 and CN407.
6. Connect the 2-pin cable to CN3 and CN807.

1. OCXO (KXK-3)

1. 安装 KXK-3 之前，务必关闭电源。
2. 拆下 TX 单元的顶盖。
3. 用 5 颗螺丝安装 KXK-3。
4. 使导体侧朝里，将带状电缆小心地连接并锁定到 CN1 和 CN803。
5. 将同轴电缆连接到 CN2 和 CN407。
6. 将 2 针电缆连接到 CN3 和 CN807。

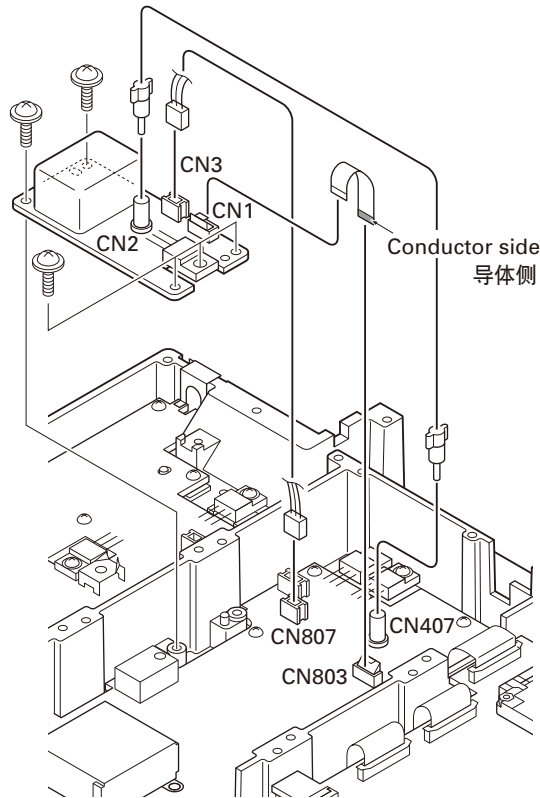


Fig. 1 / 图 1

2. External Speaker (KES-5)

The NXR-800H has an internal built-in speaker, and the external speaker output from the TEST/SPKR connector (15-pin) on the rear of the radio is 3W/4Ω. Use external speaker KES-5.

2-1. Connection for the KES-5 With the NXR-800H

■ When taking the AF output from the TEST/SPKR connector (15-pin) on the rear of the radio

The following tools are required for changing the connector.

• Extracting tool

The following extracting tool is recommended:
Molex Inc. Order No.: 11-03-0002 (W05-0878-00)

2. 外部扬声器 (KES-5)

NXR-800H 有一个内部的内置扬声器，从中继台后面的 TEST/SPKR 连接器 (15 针) 输出的外部扬声器为 3W/4Ω。可使用外部扬声器 KES-5。

2-1. KES-5 与 NXR-800H 的连接

■ 采用从中继台后面的 TEST/SPKR 连接器 (15 针) 输出的 AF 时

改变连接器时，须使用以下工具。

• 拔除工具

推荐使用以下拔除工具：
Molex Inc.，订购号：11-03-0002 (W05-0878-00)

INSTALLATION / 安装

1. Remove the connector with jumper from the external speaker connector on the rear panel of the radio. (Fig. 2-1)

Note: Save the jumper, which is required when the radio is used without the external speaker.

2. Remove the terminals with the jumper from the connector housing holes number 9 and 12 using the extracting tool.

Removing the jumper lead (Fig. 2-2)

- 1) Insert the extracting tool (11-03-0002) into the connector while pushing the jumper lead in the direction of (a).
 - 2) Push the extracting tool into collapse the barbs of the crimp terminal.
 - 3) Pull out the lead while continuing to push the extracting tool in the direction (b).
3. Reinsert the terminal with the black and white stripe lead into hole number 12, and the terminal with the black lead into hole number 6. (Fig. 2-3)
 4. Attach the connector to the external speaker connector on the radio.

Note:

- Relationship between TEST/SPKR connector (15-pin) connection and speaker output.
- When pins 9 and 12 are shorted: Built-in internal speaker is used.
- When pins 9 and 12 are open and output is from pins 6 and 12: KES-5 is used.

1. 从中继台后面板的外部扬声器连接器上拆下带跳线的连接器。(图 2-1)

注意: 请保留跳线, 在没有外部扬声器的情况下使用中继台时需使用该跳线。

2. 用拔除工具从连接器壳的第 9 和 12 孔中拆下带跳线的端子。
拆下跨接线 (图 2-2)

1) 沿 (a) 的方向推动拔除工具的同时, 将拔除工具 (11-03-0002) 插入连接器。

2) 推入拔除工具, 折起压接式端子的倒钩。

3) 继续沿 (b) 的方向推动拔除工具的同时, 拔出导线。

3. 将带黑白条纹导线的端子插入第 12 孔, 将带黑导线的端子插入第 6 孔。(图 2-3)

4. 将连接器安装到中继台上的外部扬声器连接器。

注意:

- TEST/SPKR 连接器 (15 针) 连接与扬声器输出之间的关系。
- 第 9 和 12 针短路时: 使用内置的内部扬声器。
- 第 9 和 12 针开路并从第 6 和 12 针输出时: 使用 KES-5。

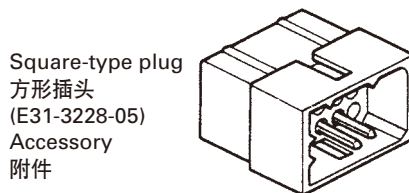


Fig. 2-1 / 图 2-1

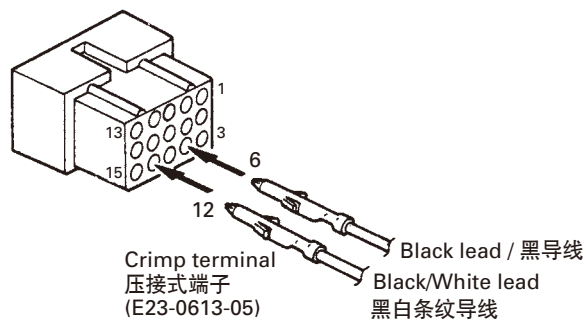


Fig. 2-3 / 图 2-3

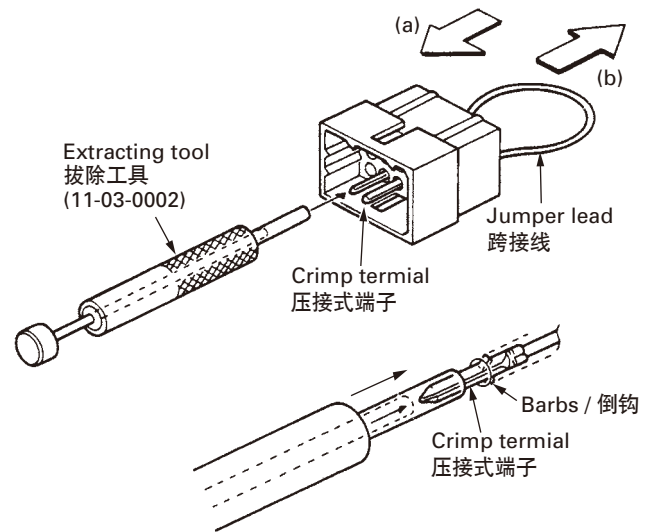


Fig. 2-2 / 图 2-2

INSTALLATION / 安装

3. How to Attach the Supplied Accessories

1. Attach the front glass to the front panel with the supplied screw. (①)
2. To attach the handles on the both sides of the chassis, refer to illustration. (②)

3. 如何安装附件

1. 用附带的螺丝将前玻璃安装到前面板。(①)
2. 要在底座的两侧安装把手, 请参照图示。(②)

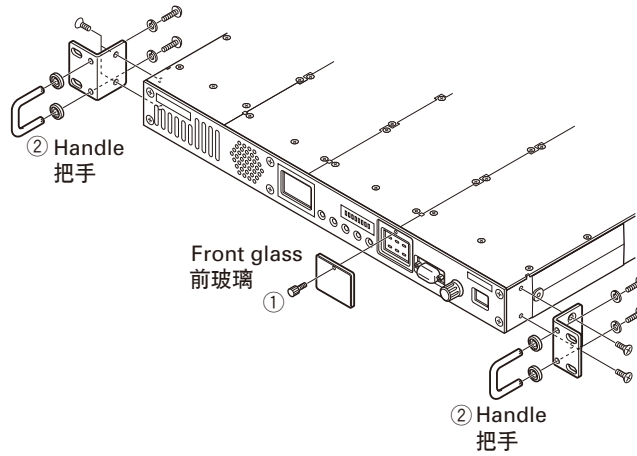


Fig. 3 / 图 3

CIRCUIT DESCRIPTION / 电路说明

1. Outline

The NXR-800H is a UHF repeater operating in the frequency range of 440~470MHz (C) or 400~430MHz (C2).

2. Transmitter unit

The transmitter unit (X56-312 A/3) consists of the following circuit.

- (1) Internal/external reference circuit
- (2) Transmitter reference 19.2MHz PLL circuit
- (3) Transmitter Modulation 19.2MHz PLL circuit
- (4) Transmitter DDS circuit
- (5) Transmitter main PLL circuit
- (6) Driver circuit
- (7) Modulation level adjustment circuit
- (8) AVR circuit
- (9) Other circuits

2-1. Internal/external reference circuit

The internal/external reference circuit automatically switches signals used as reference signals among the 5.99MHz internal DDS, the 10MHz external reference signal and the 10MHz OCXO unit.

If no OCXO unit is installed, and there is no external reference signal, the 5.99MHz internal DDS (IC601) is selected as the reference signal.

If the OCXO unit is installed and there is no external reference signal, the 10MHz OCXO unit is selected as the reference signal.

If an external reference signal (CN408/ 10MHz/ 0dBm or higher/ $Z_{in}=50\Omega$) is input, the external reference signal is selected as the reference signal irrespective of an existing OCXO unit.

The internal/external reference circuit consists of Q419, Q418, D401, D402, D405, D404, Q430, Q422, D601, IC405 and IC406.

The DDS circuit consists of X601, IC602, IC601, Q606, CF601, Q603 and D602.

If either the OCXO 10MHz or external reference 10MHz is selected as the reference signal, the reference output terminal outputs the reference signal (CN403/ 10MHz/ +9dBm/ $Z_{out}=50\Omega$). This circuit consists of Q431, Q420 and Q425.

1. 概述

NXR-800H 是在 440 ~ 470MHz (C) 或 400 ~ 430MHz (C2) 的频率范围内工作的 UHF 中继台。

2. 发射机单元

发射机单元 (X56-312 A/3) 由以下电路组成。

- (1) 内部 / 外部基准电路
- (2) 发射机基准 19.2MHz PLL 电路
- (3) 发射机调制 19.2MHz PLL 电路
- (4) 发射机 DDS 电路
- (5) 发射机主 PLL 电路
- (6) 驱动电路
- (7) 调制电平调整电路
- (8) AVR 电路
- (9) 其它电路

2-1. 内部 / 外部基准电路

内部 / 外部基准电路自动切换 5.99MHz 内部 DDS、10MHz 外部基准信号和 10MHz OCXO 单元当中用作基准信号的信号。

如果未安装 OCXO 单元, 而且没有外部基准信号, 5.99MHz 内部 DDS (IC601) 将被选为基准信号。

如果安装有 OCXO 单元, 而且没有外部基准信号, 10MHz OCXO 单元将被选为基准信号。

如果输入了外部基准信号 (CN408/10MHz/0dBm 或更高 / $Z_{in}=50\Omega$), 则不论是否存在 OCXO 单元, 外部基准信号都将被选为基准信号。

内部 / 外部基准电路由 Q419、Q418、D401、D402、D405、D404、Q430、Q422、D601、IC405 和 IC406 组成。

DDS 电路由 X601、IC602、IC601、Q606、CF601、Q603 和 D602 组成。

如果 OCXO 10MHz 或外部基准 10MHz 被选为基准信号, 基准输出端子将输出基准信号 (CN403/10MHz/+9dBm/ $Z_{out}=50\Omega$)。该电路由 Q431、Q420 和 Q425 组成。

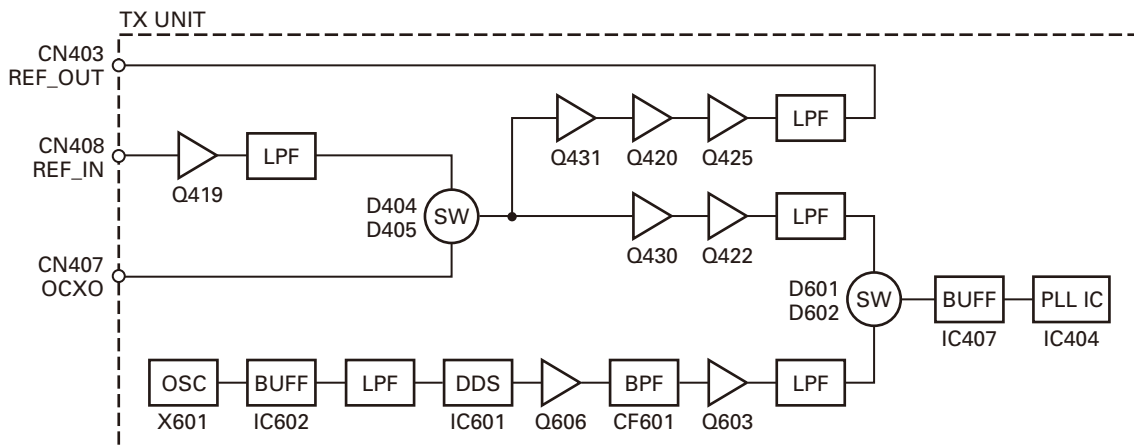


Fig. 1 Internal/external reference circuit / 图 1 内部 / 外部基准电路

2-2. Transmitter reference 19.2MHz PLL circuit

The transmitter reference 19.2MHz PLL circuit produces a reference frequency signal for the transmitter modulation 19.2MHz PLL circuit, the Receiver unit (X55-310) Receiver DDS circuit and the Control Unit (X53-414) DSP IC.

This circuit consists of Q401, Q402, Q412, Q415, Q416, Q417, X401, IC404, and IC407.

The 5.99MHz or 10MHz signal produced by the internal/external reference circuit is amplified by IC407 and supplied to the PLL IC (IC404) reference signal pin.

The VCXO (X401) signal enters buffer amp Q417 and is amplified by Q415. The higher harmonic wave is attenuated by LPF and returns to IC404. Its phase is compared with that of the reference frequency 10kHz.

The phase difference signal produced by the comparing phase is converted to a DC voltage by a lag-lead type loop filter. This DC voltage is input to the X401 control voltage terminal for controlling the VCXO oscillating frequency.

The DC voltage passes through the IC401 operational amplifier, and is output as a voltage signal (CVT-REF) for monitoring the reference 19.2MHz PLL circuit lock voltage.

The stabilized 19.2MHz reference oscillating signal enters the Q417 buffer amplifier and is amplified by Q412 and Q416. The higher harmonic wave is attenuated by LPF, fed to IC302 and used as the reference frequency signal for the transmitter modulation 19.2MHz PLL circuit.

The 19.2MHz reference oscillating signal is also used as the reference signal for the receiver unit (X55-310) and control unit (X53-414).

It enters the Q417 buffer amplifier for the receiver unit (X55-310) and is amplified by Q401. The higher harmonic wave is attenuated by LPF and is output from CN406.

It enters the Q417 buffer amplifier for the control unit (X53-414) and is amplified by Q402. The higher harmonic wave is attenuated by LPF and is output from CN405.

2-2. 发射机基准 19.2MHz PLL 电路

发射机基准 19.2MHz PLL 电路产生发射机调制 19.2MHz PLL 电路、接收机单元 (X55-310) 接收机 DDS 电路和控制单元 (X53-414) DSP IC 的基准频率信号。

该电路由 Q401、Q402、Q412、Q415、Q416、Q417、X401、IC404 和 IC407 组成。

内部/外部基准电路产生的 5.99MHz 或 10MHz 信号由 IC407 放大并提供给 PLL IC (IC404) 基准信号引脚。

VCXO (X401) 信号进入缓冲放大器 Q417, 由 Q415 放大。较高的谐波由 LPF 衰减并返回 IC404。其相位与基准频率 10kHz 的相位进行对比。

通过相位对比产生的相位差信号由一个滞后超前式环路滤波器转换为 DC 电压。该 DC 电压被输入用于控制 VCXO 振荡频率的 X401 控制电压端子。

DC 电压通过 IC401 运算放大器, 输出为电压信号 (CVT-REF), 用于监测基准 19.2MHz PLL 电路锁定电压。

经过稳定的 19.2MHz 基准振荡信号进入 Q417 缓冲放大器, 由 Q412 和 Q416 放大。较高的谐波由 LPF 衰减, 送入 IC302, 并用作发射机调制 19.2MHz PLL 电路的基准频率信号。

19.2MHz 基准振荡信号还用作接收机单元 (X55-310) 和控制单元 (X53-414) 的基准信号。

它进入接收机单元 (X55-310) 的 Q417 缓冲放大器, 由 Q401 放大。较高的谐波由 LPF 衰减, 从 CN406 输出。

它进入控制单元 (X53-414) 的 Q417 缓冲放大器, 由 Q402 放大。较高的谐波由 LPF 衰减, 从 CN405 输出。

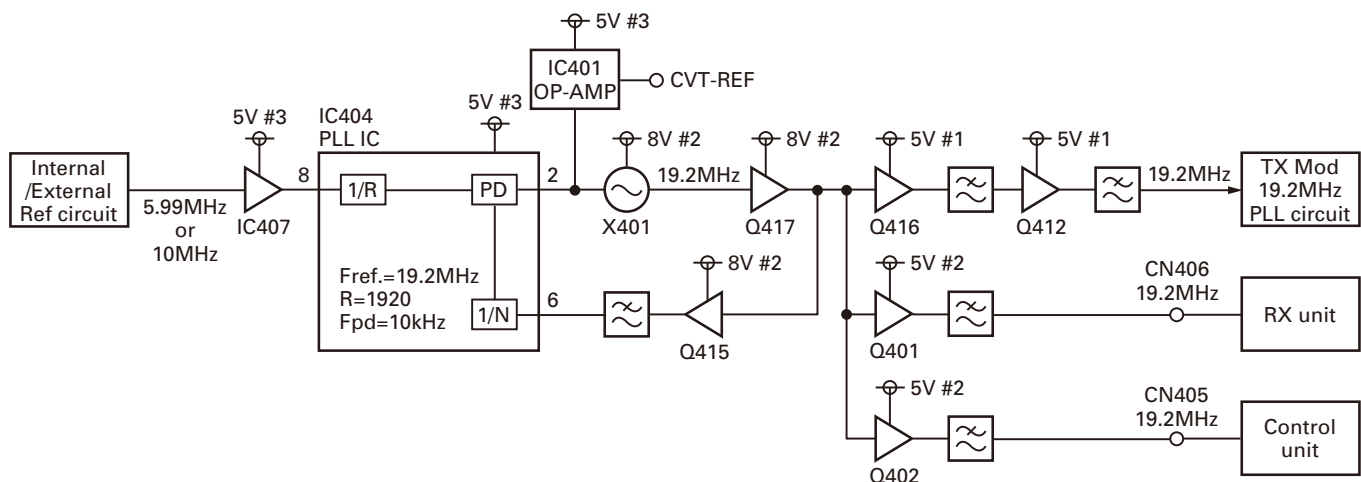


Fig. 2 Transmitter reference 19.2MHz PLL circuit / 图 2 发射机基准 19.2MHz PLL 电路

CIRCUIT DESCRIPTION / 电路说明

2-3. Transmitter modulation 19.2MHz PLL circuit

The transmitter modulation 19.2MHz PLL circuit produces the reference frequency signal for the Transmitter DDS circuit and modulates the low-frequency components.

The circuit consists of IC302, IC303, IC305, X301, Q304, Q305, and Q307.

The signal generated by the VCXO (X301) is fed to the buffer amplifier Q307.

The VCXO (X301) signal enters buffer amplifier Q307 and is amplified by Q305. The higher harmonic wave is attenuated by the LPF and returns to IC303. Its phase is compared with that of the reference frequency 5kHz.

The phase difference signal produced by the comparing phase is converted to a DC voltage by a lag-lead type loop filter. This DC voltage is input to the IC305 invert amplifier (B/2) and is synthesized with the modulating signal. This DC voltage is input to the X301 control voltage terminal for controlling the VCXO oscillating frequency 19.2MHz.

The DC voltage passes through the IC306 operational amplifier, and is output as a voltage signal (CVT-MOD) for monitoring the modulating 19.2MHz PLL circuit lock voltage.

The 19.2MHz oscillating signal is fed to the Q307 buffer amplifier and is amplified by Q304. The higher harmonic wave is attenuated by the LPF, fed to IC307, and is used as the reference frequency signal of the transmitter DDS circuit.

2-3. 发射机调制 19.2MHz PLL 电路

发射机调制 19.2MHz PLL 电路产生发射机 DDS 电路的基准频率信号，并调制低频分量。

该电路由 IC302、IC303、IC305、X301、Q304、Q305 和 Q307 组成。

VCXO (X301) 生成的信号被送入缓冲放大器 Q307。

VCXO (X301) 信号进入缓冲放大器 Q307，由 Q305 放大。较高的谐波由 LPF 衰减并返回 IC303。其相位与基准频率 5kHz 的相位进行对比。

通过相位对比产生的相位差信号由一个滞后超前式环路滤波器转换为 DC 电压。该 DC 电压被输入 IC305 反相放大器 (B/2) 并与调制信号合成。该 DC 电压被输入用于控制 VCXO 振荡频率 19.2MHz 的 X301 控制电压端子。

DC 电压通过 IC306 运算放大器，输出为电压信号 (CVT-MOD)，用于监测调制 19.2MHz PLL 电路锁定电压。

19.2MHz 振荡信号被送入 Q307 缓冲放大器，由 Q304 放大。较高的谐波由 LPF 衰减，送入 IC307，用作发射机 DDS 电路的基准频率信号。

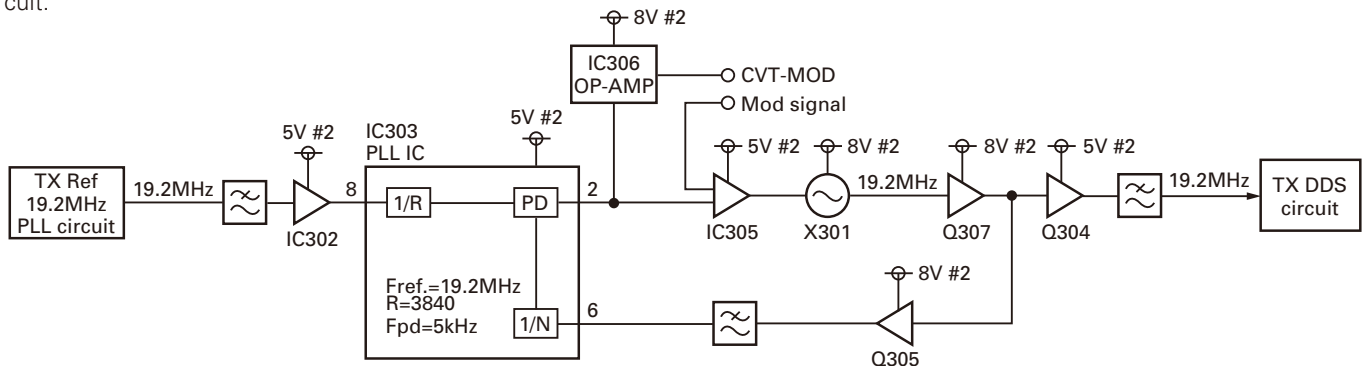


Fig. 3 Transmitter modulation 19.2MHz PLL circuit / 图 3 发射机调制 19.2MHz PLL 电路

2-4. Transmitter DDS circuit

The transmitter DDS circuit produces the transmitter main PLL reference frequency signal 4.5MHz.

This circuit consists of IC307, IC202, CF201, Q210, Q211, Q212 and Q213.

The 19.2MHz signal from the transmitter modulation 19.2MHz PLL circuit is amplified by IC307 and supplied to the IC202 reference signal pin.

IC202 produces the transmitter main PLL 4.5MHz reference frequency signal based on 19.2MHz on signal.

The spurious output by IC202 is attenuated by CF201 and LPF, 4.5MHz reference frequency signal is amplified by Q211, Q212, and Q213, and fed to the transmitter main PLL.

The comparison frequency of the transmitter main PLL is 100kHz and the PLL frequency step is 100kHz.

However, minute frequency step such as 2.5kHz and 3.125kHz because the DDS output frequency is variable.

2-4. 发射机 DDS 电路

发射机 DDS 电路产生发射机主 PLL 基准频率信号 4.5MHz。

该电路由 IC307、IC202、CF201、Q210、Q211、Q212 和 Q213 组成。

来自发射机调制 19.2MHz PLL 电路的 19.2MHz 信号由 IC307 放大并提供给 IC202 基准信号引脚。

IC202 产生基于信号上的 19.2MHz 的 PLL 4.5MHz 基准频率信号。

IC202 的寄生输出由 CF201 和 LPF 衰减，4.5MHz 基准频率信号由 Q211、Q212 和 Q213 放大，并被送入发射机主 PLL。

发射机主 PLL 的比较频率为 100kHz，PLL 频率步长为 100kHz。

但是，微小频率步长为 2.5kHz 和 3.125kHz，因为 DDS 输出频率是可变的。

CIRCUIT DESCRIPTION / 电路说明

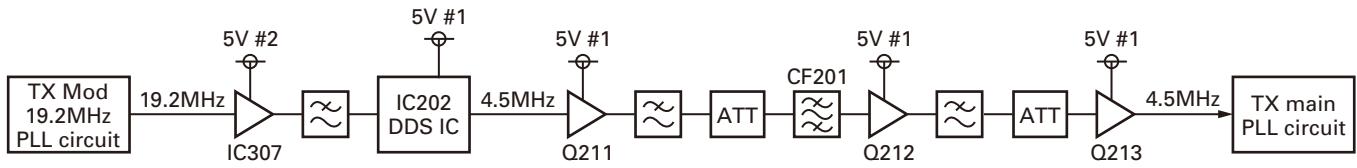


Fig. 4 Transmitter DDS circuit / 图 4 发射机 DDS 电路

2-5. Transmitter main PLL circuit

The transmitter main PLL circuit consists of the VCO (Q102 and Q103), PLL IC (IC101), IC102, Q104 and Q106 and produces the transmitter frequency signal.

The VCO Q102 produces transmitter frequencies from 440.000MHz to 454.995MHz (C), 400.000MHz to 414.995MHz (C2).

The VCO Q103 produces transmitter frequencies from 455.000MHz to 470.000MHz (C), 415.000MHz to 430.000MHz (C2).

The signal produced by the VCO (Q102 or Q103) is fed to the buffer amplifier and is amplified by Q106. The higher harmonic wave is attenuated by LPF and returns to the PLL IC (IC101).

IC101 divides the VCO oscillating frequency signal and transmitter PLL reference signal (4.5MHz), and compares the phase with the 100kHz comparison frequency.

The phase difference signal produced by the comparing phase is converted to a DC voltage by a lag-lead type loop filter.

The DC signal is applied to varicaps D101, D102, D107, and D108 to lock the VCO oscillator frequency with the desired oscillator frequency.

At the same time, the DC signal passes through the IC102 operational amplifier for monitoring the transmitter main PLL lock voltage.

The output from the VCO passes through the buffer amplifier Q104 and is supplied to the drive circuit.

2-5. 发射机主 PLL 电路

发射机主 PLL 电路由 VCO (Q102 和 Q103)、PLL IC (IC101)、IC102、Q104 和 Q106 组成，产生发射机频率信号。

VCO Q102 产生 440.000MHz 至 454.995MHz (C)、400.000MHz 至 414.995MHz (C2) 的发射机频率。

VCO Q103 产生 455.000MHz 至 470.000MHz (C)、415.000MHz 至 430.000MHz (C2) 的发射机频率。

VCO (Q102 或 Q103) 产生的信号被送到缓冲放大器，由 Q106 放大。较高的谐波由 LPF 衰减并返回 PLL IC (IC101)。

IC101 分离 VCO 振荡频率信号和发射机 PLL 基准信号 (4.5MHz)，与 100kHz 对比频率的相位进行比较。

通过相位对比产生的相位差信号由一个滞后超前式环路滤波器转换为 DC 电压。

DC 信号施加于变容二极管 D101、D102、D107 和 D108，以所需的振荡器频率锁定 VCO 振荡器频率。

与此同时，DC 信号通过用于监测发射机主 PLL 锁定电压的 IC102 运算放大器。

VCO 的输出通过缓冲放大器 Q104 被提供给驱动电路。

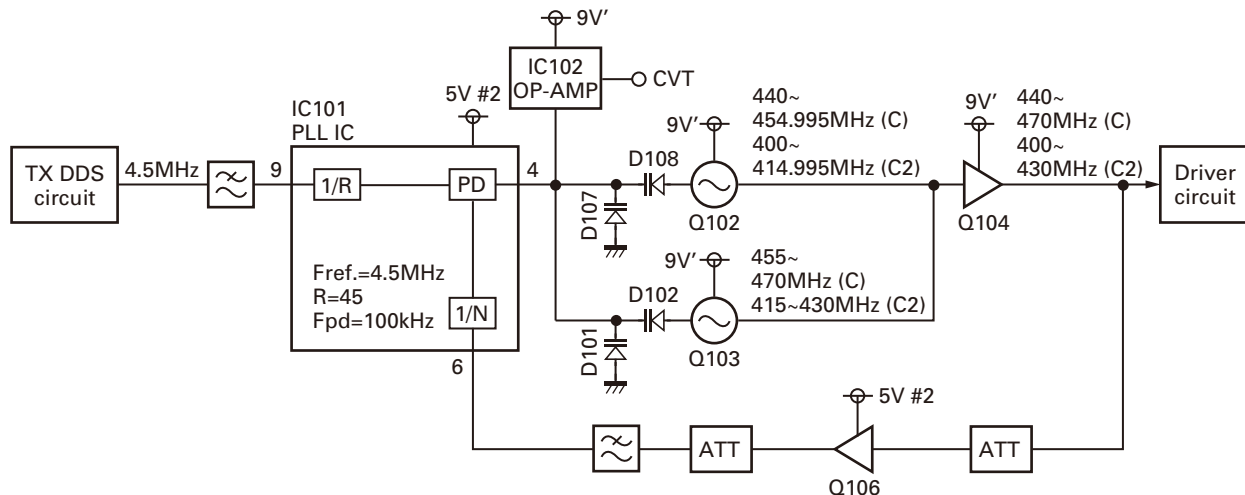


Fig. 5 Transmitter main PLL circuit / 图 5 发射机主 PLL 电路

CIRCUIT DESCRIPTION / 电路说明

2-6. Driver circuit

The driver circuit amplifies the transmitter frequency signal to the level required for input to the Final Unit (X45-386 A/5).

This circuit consists of RF amplifiers Q201, Q202 and Q203, switches Q204, Q205 and Q206, and operating amplifier IC201.

DC switches Q204, Q205, and Q206 turns the power supply voltage of RF amplifiers Q201, Q202, and Q203 on and off.

The transmitter main PLL circuit output is attenuated by attenuators R201, R202 and R203, by approximately 7dB. So, the input level to Q201 is approximately -12dBm ($63\mu\text{W}$).

Q201 amplifies it by approximately 12dB. So, the output level is approximately 0dBm (1mW).

The Q201 output is amplified by Q202 by approximately 10dB. Furthermore, it is amplified by Q203 by approximately 10dB. The Q203 output is approximately $+20\text{dBm}$ (100mW). This output level is output from driver output connector CN802 and is connected to the Final Unit (X45-386 A/5).

Q203 has an AGC (Auto Gain Control) circuit. D201 rectifies a part of the Q203 output and converts it into DC voltage. It is compared with the control voltage (D_PC) by the operation amplifier IC201. The Q203 Gate terminal voltage is controlled for the stabilizing Q203 output ($+20\text{dBm}$).

2-6. 驱动电路

驱动电路将发射机频率信号放大到输入末级单元 (X45-386 A/5) 所需的电平。

该电路由 RF 放大器 Q201、Q202 和 Q203、开关 Q204、Q205 和 Q206 以及运算放大器 IC201 组成。

DC 开关 Q204、Q205 和 Q206 打开和关闭 RF 放大器 Q201、Q202 和 Q203 的电源电压。

发射机主 PLL 电路输出由衰减器 R201、R202 和 R203 衰减约 7dB。因此，Q201 的输入电平约为 -12dBm ($63\mu\text{W}$)。

Q201 将其放大约 12dB。因此，输出电平约为 0dBm (1mW)。

Q201 输出由 Q202 放大约 10dB。此外，它由 Q203 放大约 10dB。Q203 输出约为 $+20\text{dBm}$ (100mW)。该输出电平从驱动器输出连接器 CN802 输出并连接到最终单元 (X45-386 A/5)。

Q203 有一个 AGC (自动增益控制) 电路。D201 对 Q203 的部分输出进行整流，将其转换到 DC 电压。运算放大器 IC201 将其与控制电压 (D_PC) 相比较。Q203 栅极电压受到控制以稳定 Q203 输出 ($+20\text{dBm}$)。

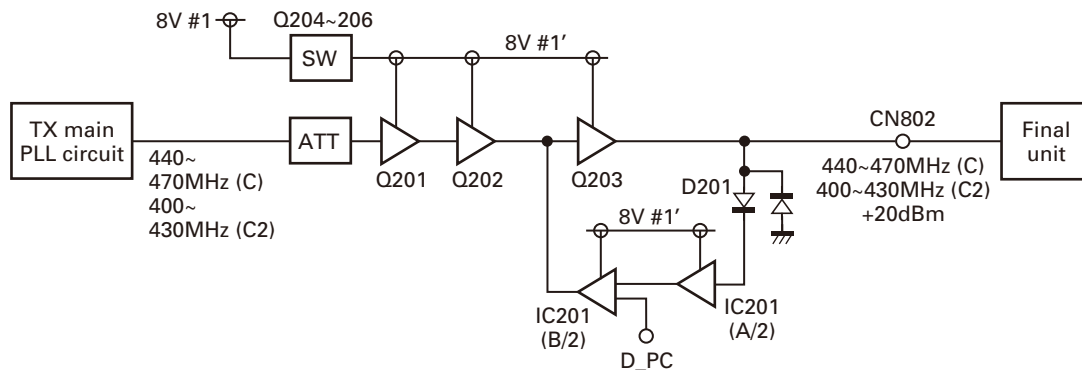


Fig. 6 Driver circuit / 图 6 驱动电路

2-7. Modulation level adjustment circuit

The level adjustment circuit adjusts the modulation signal level to provide the required level of modulation. This circuit consists of IC301, IC304, IC305, and IC308.

The audio signal comes from the Control Unit (X53-413) through pin 4. The modulating signal is input to IC304 from this.

IC304 is an electronic volume control IC.

The modulation waveform balance adjustment, maximum AF Dev. change, and adjustment are performed according to data from the MPU using the FPU.

The modulation signal is produced by the modulating low-pitched tone to the transmitter modulation 19.2MHz PLL circuit and adds the high-pitched modulation to the transmitter main PLL.

IC305 is an inverting amplifier (B/2) for inverting the amplification (A/2) of the modulating signal and synthesizing

2-7. 调制电平调整电路

该电平调整电路调整调制信号电平，以提供所需的调制电平。该电路由 IC301、IC304、IC305 和 IC308 组成。

音频信号经第 4 针来自控制单元 (X53-413)。调制信号由此输入 IC304。

IC304 是一个电子音量控制 IC。

调制波形平衡调整、最大 AF Dev. 变化以及根据来自 MPU 的数据 (基于 FPU) 进行调整。

调制信号由到发射机调制 19.2MHz PLL 电路的调制低音调和把高调调制加到发射机主 PLL 电路产生。

IC305 是一个反相放大器 (B/2)，用于变换调制信号的放大 (A/2)，合成 VCX0 (X301) 控制电压和调制信号。

NXR-800H

CIRCUIT DESCRIPTION / 电路说明

the VCXO (X301) control voltage and modulating signal.

IC301 is a reference voltage generator (A/2) in modulating level adjusting circuit and non-inverting amplification of modulating signal with a cutoff signal of approximately 9kHz (B/2).

IC301 是调制电平调整电路和调制信号的非反相放大中的基准电压发生器 (A/2)，截止信号约为 9kHz (B/2)。

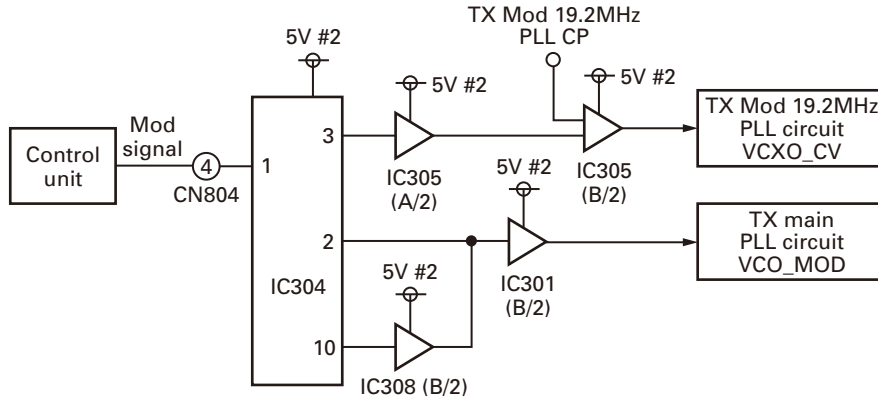


Fig. 7 Modulation level adjustment circuit / 图 7 调制电平调整电路

2-8. AVR circuit

IC104, IC603, IC704, IC705, IC706, IC807, IC808 and IC809 are AVR ICs.

Each circuit contains its own power regulator IC to maintain isolation between circuits.

2-8. AVR 电路

IC104、IC603、IC704、IC705、IC706、IC807、IC808 和 IC809 是 AVR IC。

每个电路都含有各自的功率调节器 IC，以保持电路之间的隔离状态。

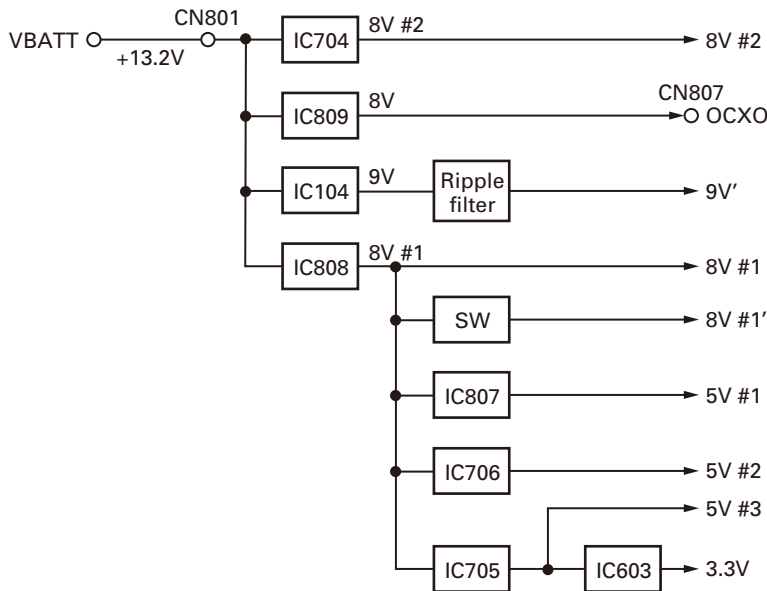


Fig. 8 AVR circuit / 图 8 AVR 电路

2-9. Other circuits

In addition, IC702 is an EEPROM. The transmitter adjustment data adjusted for each unit is written into the EEPROM. If the unit is installed in another set, it is not necessary to adjust it again from the beginning, but only fine-tuning is necessary for each unit.

The temperature sensor (IC804) monitors the temperature of the transmitter unit (X56-312 A/3).

2-9. 其它电路

此外，IC702 是一个 EEPROM。对各单元调整的发射机调整数据被写入 EEPROM。如果将单元安装在另一装置中，不需要从头开始重新调整，而只需要对各单元进行微调。

温度传感器 (IC804) 监测发射机单元 (X56-312 A/3) 的温度。

CIRCUIT DESCRIPTION / 电路说明

The D/A converters (IC701 and IC802) converts the AGC setting (D_PC) of the driver circuit and control voltage value (PWR_CONT, PWR_PRT) of the Final Unit (X45-386 A/5).

The A/D converter (IC803) converts the transmitter unit (X56-312 A/3) temperature, VCO & VCXO control voltage (CVT, CVT-REF and CVT-MOD), Final Unit (X45-386 A/5) PA current (PA_CURR), fan current (FAN_CURR), detection voltage (FWD_PWR, RFL_PWR), etc.

The shift register (IC703) controls each part of the transmitter unit (X56-312 A/3) based on serial data of the Control Unit (X53-413).

3. Final unit

The RF final amplifier unit (X45-386 A/5) amplifies the transmitter power to a specified level.

This unit consists of the following circuits:

- (1) Transmitter power module
- (2) High pass filter
- (3) Forward/Reflect power detector circuit
- (4) Antenna switch
- (5) Harmonic filter circuit
- (6) APC circuit
- (7) High temperature detector circuit
- (8) FAN action control circuit
- (9) Current detector circuit
- (10) AVR Circuit
- (11) Other Circuits

3-1. Transmitter power module

The power module IC10 uses power module RA30H4047 M123 (C) or RA45H4047M131 (C2) to improve its efficiency. The driver output of the transmitter unit passes through an attenuator and enters the power module IC10 pin 1. Power module IC10 amplifies the RF power according to the voltage at the amplification control pin 2 (VGG) and outputs it through pin 4 (Pout).

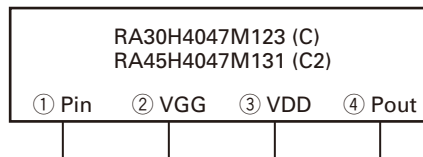


Fig. 9 Transmitter power module / 图 9 发射机功率模块

3-2. High pass filter

The T type single stage high pass filter prevents the Power Amplifier Module from being broken by static electricity.

3-3. Forward/Reflect power detector circuit

The forward / Reflect power detector circuit consists of a CM coupling type detection circuit formed by a Micro strip line and the differential amplifier IC4.

A part of the transmitter power is detected by diodes D9 and D10 and is converted into DC voltage.

D/A 转换器 (IC701 和 IC802) 转换驱动电路的 AGC 设置 (D_PC) 和末级单元 (X45-386 A/5) 的控制电压值 (PWR_CONT, PWR_PRT)。

A/D 转换器 (IC803) 转换发射机单元 (X56-312 A/3) 温度、VCO & VCXO 控制电压 (CVT、CVT-REF 和 CVT-MOD)、末级单元 (X45-386 A/5) PA 电流 (PA_CURR)、风扇电流 (FAN_CURR)、检测电压 (FWD_PWR、RFL_PWR) 等。

移位寄存器 (IC703) 根据控制单元 (X53-413) 的串行数据控制发射机单元 (X56-312 A/3) 的各个部分。

3. 末级单元

RF 末级放大器单元 (X45-386 A/5) 将发射机功率放大到指定电平。

该单元由以下电路组成：

- (1) 发射机功率模块
- (2) 高通滤波器
- (3) 前向 / 反射功率检测器电路
- (4) 天线开关
- (5) 谐波滤波器电路
- (6) APC 电路
- (7) 高温检测器电路
- (8) FAN 动作控制电路
- (9) 电流检测器电路
- (10) AVR 电路
- (11) 其它电路

3-1. 发射机功率模块

功率模块 IC10 用 RA30H4047M123 (C) 或 RA45H4047M131 (C2) 的功率模块提高其效率。发射机单元的驱动器输出通过衰减器并进入功率模块 IC10 引脚 1。功率模块 IC10 根据放大控制引脚 2 (VGG) 的电压放大 RF 功率，将其从引脚 4 (Pout) 输出。

3-2. 高通滤波器

T 型单级高通滤波器可防止功率放大器模块受到静电损坏。

3-3. 前向 / 反射功率检测器电路

前向 / 反射功率检测器电路由微带线形成的 CM 耦合式检测电路和差分放大器 IC4 组成。

发射机功率的一部分被二极管 D9 和 D10 检测并转换为 DC 电压。

CIRCUIT DESCRIPTION / 电路说明

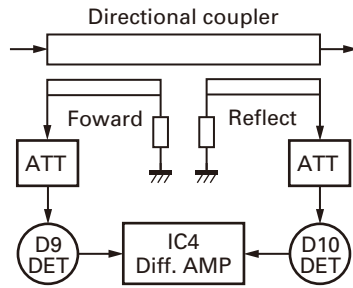


Fig. 10 Forward/Reflect power detector circuit / 图 10 前向 / 反射功率检测器电路

3-4. Harmonic filter circuit

The harmonic filter circuit uses a three-stage “pi” type Chebyshev type LPF.

This circuit removes harmonics from the transmitter output and sends the filtered signal to the antenna connector (CN22).

3-5. APC circuit

The APC circuit stabilizes the transmitter power so that the output power specified by the Control Voltage from the MPU is obtained. It consists of a Forward/Reflect power detector circuit and Differential amplifiers (IC2 and IC5).

It compares the voltage detected by the Forward/Reflect power detector circuit (voltage detected by the Forward Power) and the Control Voltage (PWR_CONT) from the MPU (IC802: X56-312 A/3). It stabilizes the output power by changing pin 2 (Vgg).

The voltage detected (that detected Reflect Power) by the Forward/Reflect power detector circuit is compared to the Control Voltage (PWR_PRT) from the MPU (IC802: X56-312 A/3). When a load V.S.W.R. is connected to the Antenna Connector and is more than 1.5, it functions so that the output power gets smaller as the detection voltage (that detected Reflect Power) gets larger.

3-4. 谐波滤波器电路

谐波滤波器电路采用三阶“pi”式切比雪夫 LPF。

该电路从发射机输出中消除谐波，并将滤波的信号发送到天线连接器 (CN22)。

3-5. APC 电路

APC 电路可稳定发射机功率，从而获得由 MPU 的控制电压指定的输出功率。它由前向 / 反射功率检测器电路和差分放大器 (IC2 和 IC5) 组成。

它将前向 / 反射功率检测器电路所检测的电压 (由前向功率检测的电压) 和 MPU (IC802: X56-312 A/3) 的控制电压 (PWR_CONT) 进行比较。它通过改变引脚 2 (Vgg) 稳定输出功率。

前向 / 反射功率检测器电路所检测的电压 (反射功率检测的电压) 与 MPU (IC802: X56-312 A/3) 的控制电压 (PWR_PRT) 进行比较。负载 V. S. W. R. 被连接到天线连接器并且大于 1.5 时，它就会发挥作用，使得输出功率随着检测电压 (反射功率检测的电压) 的变大而变小。

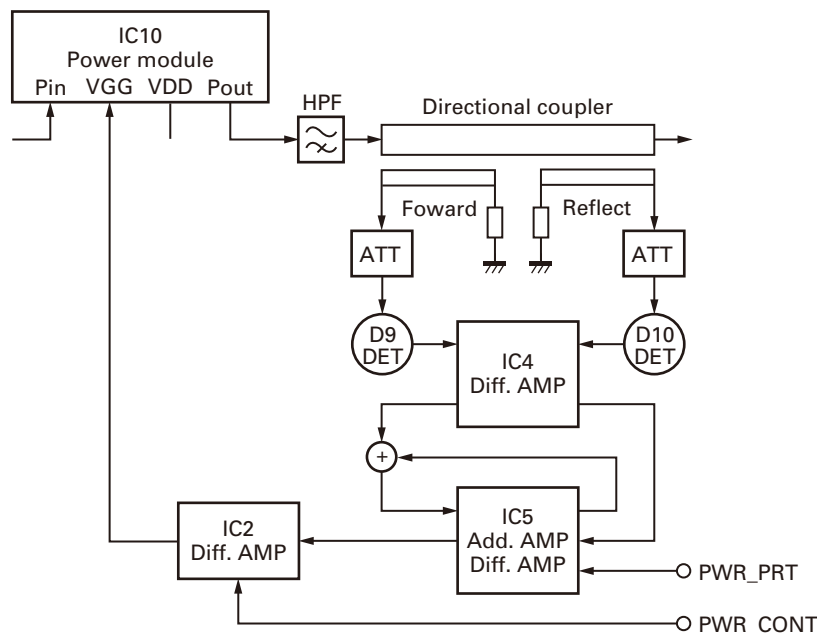


Fig. 11 APC circuit / 图 11 APC 电路

CIRCUIT DESCRIPTION / 电路说明

3-6. High temperature detector circuit

The high temperature detector circuit consists of a thermal switch IC (IC7) and a switching FET (Q2).

This circuit lowers the transmitter power when the final unit temperature is too high (83°C or higher).

3-6. 高温检测器电路

高温检测器电路由热控开关 IC (IC7) 和切换 FET (Q2) 组成。末级单元的温度过高时 (83°C 或更高), 该电路便会降低发射机功率。

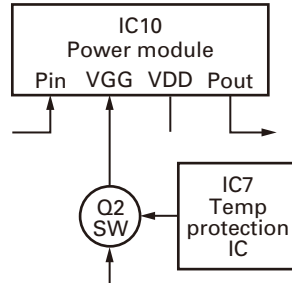


Fig. 12 High temperature detector circuit / 图 12 高温检测器电路

3-7. FAN action control circuit

The FAN action control circuit consists of a FAN and a AVR (IC12).

3-7. FAN 动作控制电路

FAN 动作控制电路由 FAN 和 AVR (IC12) 组成。

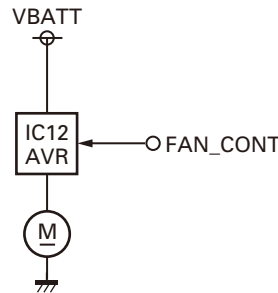


Fig. 13 FAN action control circuit / 图 13 FAN 动作控制电路

3-8. Current detector circuit

The current detector circuit monitors the current of the Power Amplifier Module. It consists of a current detection resistance (R4) and a current detection IC (IC1). It detects the normal and abnormal state of the Power Amplifier Module by monitoring the current of the Power Amplifier Module. If a failure occurs, it stops operation.

3-8. 电流检测器电路

电流检测器电路监测功率放大器模块的电流。它由电流检测电阻 (R4) 和电流检测 IC (IC1) 组成。它通过检测功率放大器模块的电流来检测功率放大器模块的正常和异常状态。如果发生故障, 它将停止操作。

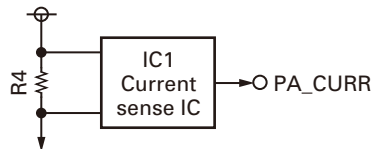


Fig. 14 Current detector circuit / 图 14 电流检测器电路

NXR-800H

CIRCUIT DESCRIPTION / 电路说明

3-9. AVR circuit

IC3, IC11 and IC12 are AVR ICs.
They maintain isolation of each power supply.

3-9. AVR 电路

IC3、IC11 和 IC12 是 AVR IC。
它们保持各电源的隔离状态。

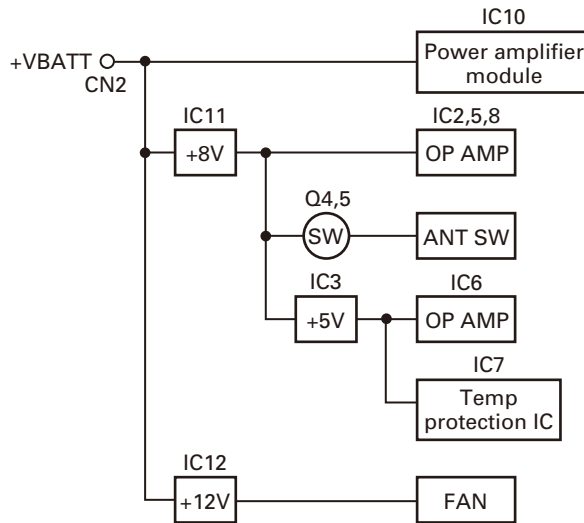


Fig. 15 AVR circuit / 图 15 AVR 电路

3-10. Other circuits

Circuit IC9 saves various adjustment values of the Final Unit in the EEPROM.

3-10. 其它电路

电路 IC9 将末级单元的各种调整值保存在 EEPROM 中。

4. Receiver Unit

The receiver unit (X55-310) consists of the following circuits:

- (1) Front-end circuit
- (2) 1st-Mixer circuit
- (3) 1st-IF circuits
- (4) Demodulator circuits
- (5) Squelch circuit
- (6) Receiver DDS circuit
- (7) Receiver PLL circuits
- (8) AVR circuit
- (9) Other circuits

There are five modulating modes that can receiver demodulate, including Analog_Wide, Analog_Narrow, NXDN_Narrow, and NXDN_Very-Narrow.

4. 接收机单元

接收机单元 (X55-310) 由以下电路组成。

- (1) 前端电路
- (2) 第 1 混频器电路
- (3) 第 1 IF 电路
- (4) 解调器电路
- (5) 静噪电路
- (6) 接收机 DDS 电路
- (7) 接收机 PLL 电路
- (8) AVR 电路
- (9) 其它电路

共有五种接收机可解调的调制模式，包括模拟宽、模拟窄、NXDN 窄和 NXDN 超窄。

4-1. Front-end circuit

The front-end circuit consists of L132 and L133 helical BPF, Q1 Low Noise Amplifier (LNA), and L134 and L135 helical BPF. Adjusting four helical BPF forms the BPF having a pass band width of 5MHz with a center frequency from 440 to 470MHz (C) or 400 to 430MHz (C2).

+9V is applied to the Q1 collector power supply. -3V produced by IC701, IC702 and IC703 mounted on a negative power unit (X45-386 D/5) is applied to the emitter power supply. The collector current is monitored by the IC4 current detection circuit. Detected DC voltage is input to pin 15 of IC30 (ADC).

4-1. 前端电路

前端电路由 L132 和 L133 螺旋状 BPF、Q1 低噪声放大器 (LNA)、以及 L134 和 L135 螺旋状 BPF 组成。通过调整四个螺旋状 BPF，形成具有 5MHz 通频带、中心频率为 440 至 470MHz (C) 或 400 至 430MHz (C2) 的 BPF。

+9V 施加于 Q1 集电极电源。装在负功率单元 (X45-386 D/5) 上的 IC701、IC702 和 IC703 产生的 -3V 施加于发射极电源。集电极电流由 IC4 电流检测电路监测。检测的 DC 电压被输入 IC30 (ADC) 的引脚 15。

CIRCUIT DESCRIPTION / 电路说明

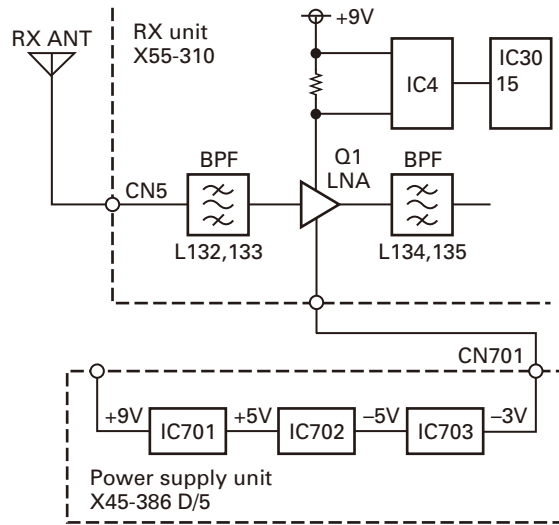


Fig. 16 Front-end circuit / 图 16 前端电路

4-2. 1st-Mixer circuit

The unwanted out-of-band RF components produced by Q1 are attenuated by the BPF. Only the desired signal is transmitted to the A1 Double Balanced Mixer (DBM). Here, the desired signal is mixed with the first hetero signal. 49.95MHz is produced as the 1st Intermediate Frequency (IF1).

4-2. 第 1 混频器电路

Q1 产生的不需要的带外 RF 分量由 BPF 衰减。仅所需的信号被发送到 A1 双平衡混频器 (DBM)。所需的信号在此处与第一外差信号混合。产生 49.95MHz，作为第 1 中频 (IF1)。

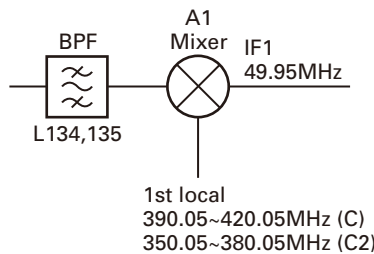


Fig. 17 1st-Mixer circuit / 图 17 第 1 混频器电路

4-3. 1st-IF circuits

The IF1 signal produced by the 1st-Mixer circuit is transmitted through either one of two 1st-IF circuits with different bandwidth. The signal passes through the WIDE band consisting of D9, XF1, Q19, XF3, Q28 and D13 only in Analog_Wide mode. Meanwhile, the signal passes through the NARROW band consisting of D10, XF2, Q20, XF4, Q29, and D14 only in Analog_Narrow, NXDN_Narrow or NXDN_Very-Narrow mode.

XF1 and XF2 is 2 pole and XF3 and XF4 are 4 pole Monolithic Crystal Filters (MCF). They are BPF for removing spurious noise occurring close to the desired signal. The DC switch consists of Q31, Q32, Q26 and Q25, switches the WIDE and NARROW bands of the 1st-IF circuits.

4-3. 第 1 IF 电路

第 1 混频器电路产生的 IF1 信号通过带宽不同的两个第 1 IF 电路中的任一个发送。信号仅以模拟宽模式通过由 D9、XF1、Q19、XF3、Q28 和 D13 组成的 WIDE 带。同时，信号仅以模拟窄、NXDN 窄或 NXDN 超窄模式通过由 D10、XF2、Q20、XF4、Q29 和 D14 组成的 NARROW 带。

XF1 和 XF2 为 2 极、XF3 和 XF4 为 4 极单片晶体滤波器 (MCF)。它们是用于消除所需信号附近发生的寄生噪声的 BPF。DC 开关由 Q31、Q32、Q26 和 Q25 组成，用于切换第 1 IF 电路的 WIDE 带和 NARROW 带。

CIRCUIT DESCRIPTION / 电路说明

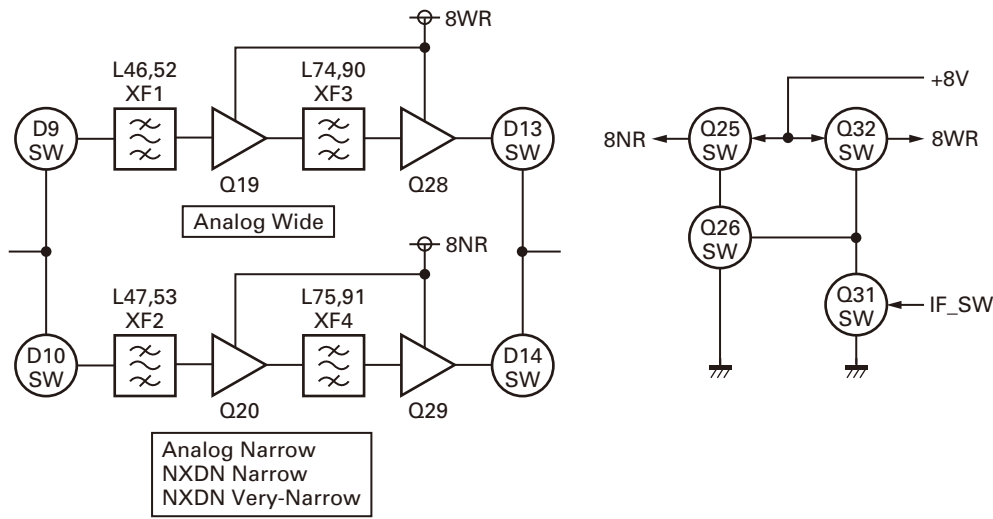


Fig. 18 1st-IF circuits / 图 18 第 1 IF 电路

4-4. Demodulator circuits

The desired signal that passed through the 1st-IF circuits passes through the distributor consisting of LC parts and is fed to the IF system IC_IC12, IC13. The signal in Analog_Wide or Analog_Narrow mode is mixed with the second local oscillator hetero signal by the mixer in IC12. 450kHz is produced as the 2nd Intermediate Frequency (IF2).

It passes through D15, CF2, D16, D19, CF5 and D20 path if the modulation mode is Analog_Wide. It passes through D15, CF3, D16 and D19, CF7 and D20 path if the modulation mode is Analog_Narrow. The base band signal FM-detected by the quadrature detection circuit consisting of L128, Q57, and Q58 and is amplified to a signal level of approximately 100mVrms by IC20 and is then transmitted to the control unit (X53-413) from CN42 (pin12).

The signal in NXDN_Narrow or NXDN_Very-Narrow mode is mixed with the second local oscillator hetero signal by the mixer in IC13. 450kHz is produced as the 2nd Intermediate Frequency (IF2). Here, irrespective of modulation modes, it passes through the CF4 and CF6 path. It is transmitted as the base band signal via IC14 to the CN43 control unit, X53-414.

CF2, CF3, CF4, CF5, CF6 and CF7 are hexode Ceramic Filters. They are BPF for removing spurious noise occurring close to the desired signal.

4-5. Squelch circuit

The desired noise of the noise component output from IF system IC_IC12 (pin18) is extracted by the BPF. After passing through Q40, it is DC-detected as the squelch voltage by D17, D18 and input to ADC_IC30 (pin11).

The MPU mounted in the control unit (X53-413) compares it with a predetermined reference voltage and turns the Audio signal on and off. The strength of the receiver signal input from CN5 is output as the RSSI voltage from IF system IC_IC12 (pin21), and is input to _IC30 (ADC) pin12 via IC29 A/2.

4-4. 解调器电路

通过第 1 IF 电路的所需信号通过由 LC 部分组成的分配器, 被送入 IF 系统 IC_IC12、IC13。模拟宽或模拟窄模式的信号由 IC12 中的混频器与第二本地振荡器外差信号混合。产生 450kHz, 作为第 2 中频 (IF2)。

如果调制模式为模拟宽, 则它通过 D15、CF2、D16、D19、CF5 和 D20 的路径。如果调制模式为模拟窄, 则它通过 D15、CF3、D16 和 D19、CF7 和 D20 的路径。由 L128、Q57 和 Q58 组成的积分检测电路 FM 检测的基带信号被 IC20 放大到约 100mVrms 的信号电平, 然后从 CN42 (针脚 12) 传送到控制单元 (X53-413)。

NXDN 窄或 NXDN 超窄模式的信号由 IC13 中的混频器与第二本地振荡器外差信号混合。产生 450kHz, 作为第 2 中频 (IF2)。在此处, 不论调制模式如何, 它都通过 CF4 和 CF6 路径。它被作为基带信号经 IC14 发送到 CN43 控制单元、X53-414。

CF2、CF3、CF4、CF5、CF6 和 CF7 是六极管陶瓷滤波器。它们是用来消除所需信号附近发生的寄生噪声的 BPF。

4-5. 静噪电路

从 IF 系统 IC_IC12 (针脚 18) 输出的噪音分量的所需噪音由 BPF 提取。通过 Q40 后, D17、D18 对其进行 DC 检波作为静噪电压, 并输入到 ADC_IC30 (针脚 11)。

装于控制单元 (X53-413) 上的 MPU 将其与预定的基准电压相比较, 并打开和关闭音频信号。CN5 输出的接收机信号的强度作为 RSSI 电压从 IF 系统 IC_IC12 (针脚 21) 输出, 经 IC29 A/2 输入到 _IC30 (ADC) 针脚 12。

CIRCUIT DESCRIPTION / 电路说明

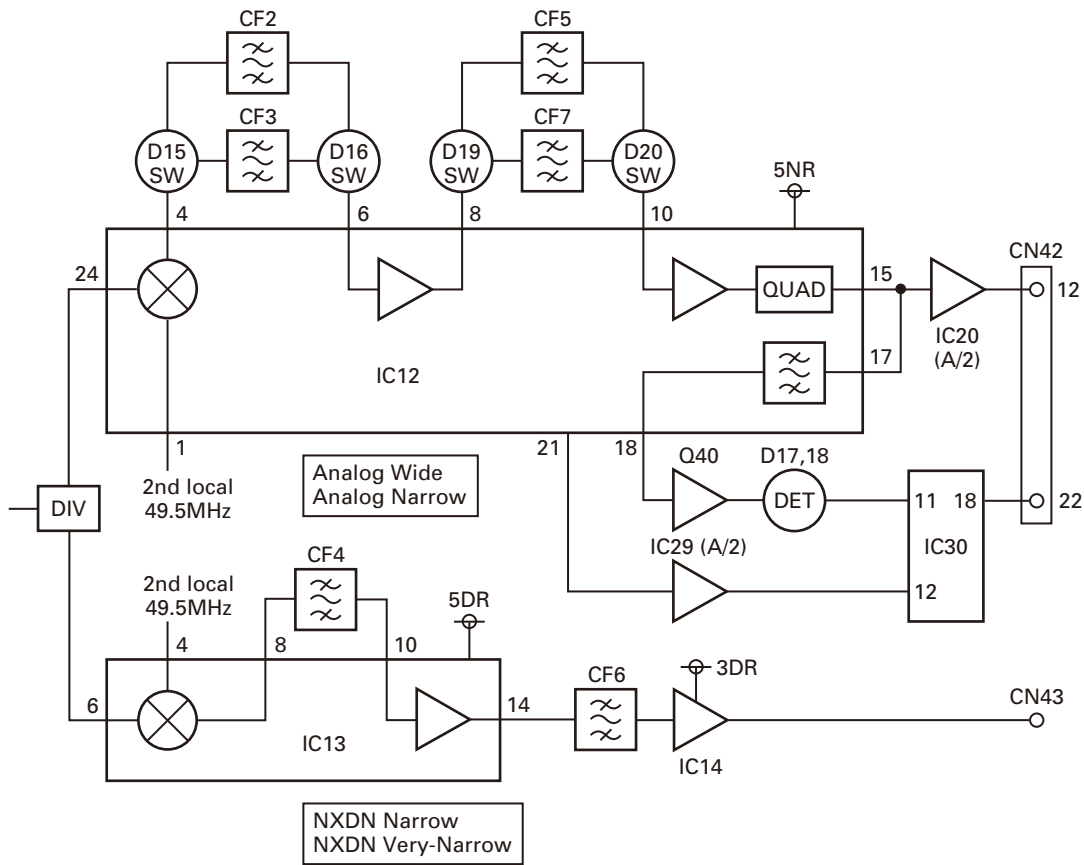


Fig. 19 Demodulator circuits / 图 19 解调器电路

4-6. Receiver DDS circuit

The 19.2MHz Internal reference clock produced by transmitter unit (X56-312 A/3) is distributed to CN45 of the receiver unit (X55-310). It passes through Q39, Q30, and IC8, and is input to IC7 (DDS-IC) pin6 as the Master clock. Approximately 6MHz signal is generated as the 1st-PLL Reference clock.

IC7 has a resolution of 32 bits for realizing the frequency step minter than the 1st-PLL comparison frequency. The generated Reference clock is output via Q12, CF1, and Q5. CF1 is a Ceramic Filter. It is the BPF for removing unnecessary spurious noise included in the generated Reference clock.

4-6. 接收机 DDS 电路

发射机单元 (X56-312 A/3) 产生的 19.2MHz 内部基准时钟被分配到接收机单元 (X55-310) 的 CN45。它通过 Q39、Q30 和 IC8，被输入到 IC7 (DDS-IC) 引脚 6 作为主时钟。生成约 6MHz 信号，作为第 1 PLL 基准时钟。

IC7 具有 32 位的分辨率，用于实现小于第 1 PLL 比较频率的频率步长。生成的基准时钟经 Q12、CF1 和 Q5 输出。CF1 是一个陶瓷滤波器。它是消除所生成基准时钟中包含的不需要的寄生噪声的 BPF。

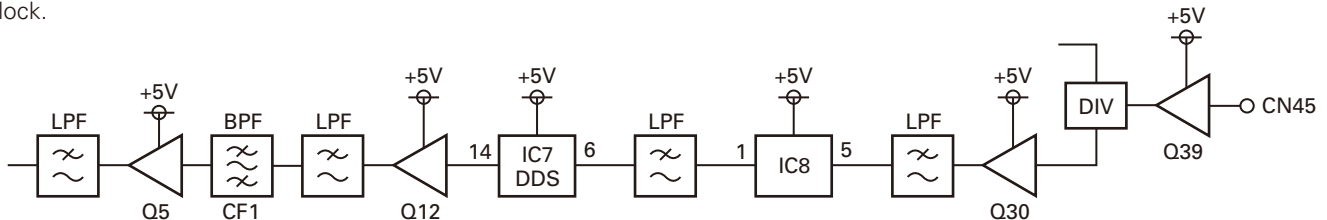


Fig. 20 Receiver DDS circuit / 图 20 接收机 DDS 电路

4-7. Receiver PLL circuits

The receiver unit (X55-310) has the 1st-PLL circuit for controlling the VCO that generates the hetero signal to the first local oscillator, and the 2nd-PLL circuit for controlling the VCO that generates the hetero signal to the second local oscillator.

The 1st-PLL circuit consists of the VCO (Q7 and Q8), the Buffer amplifier (Q17), the RF amplifiers (Q16 and Q3), the PLL-IC (IC5), the Active loop filters (Q2 and Q4) and the Band switches (Q14, Q10, Q11 and Q59). The signal in the 390.05 (C), 350.05 (C2) through under 405.05MHz (C), 365.05MHz (C2) band generated by VCO Q7 and the 405.05 (C), 365.05 (C2) through 420.05MHz (C), 380.05MHz (C2) band generated by VCO Q8 is input to IC5 (pin5) via Q17 and Q16 as the Fin signal. The 6MHz reference signal generated by the DDS-IC (IC7) is input to IC5 (pin8) via Q3. Two signals, Fin and REFin, are phase-compared as the 100kHz comparison frequency by each frequency divider. The VCO output with the frequency synchronized is input to the 1st-Mixer as the first local oscillator Lower hetero signal approximately +17dBm via Q17, Q23, and Q18. The control voltage is input to IC30 (ADC) pin16 via IC6.

Meanwhile, the 2nd-PLL circuit consists of the VCO (Q24), the Buffer amplifier (Q33), the RF amplifier (Q38, Q22), and the PLL-IC (IC11). The 99.0MHz signal generated by Q24 is input to IC11 (pin5) as the Fin signal via Q38. The 19.2MHz Internal reference clock distributed by the transmitter unit (X56-312) is input as the REFin signal to IC11 (pin8) via Q22. Two signals, Fin and REFin, are phase-compared by each frequency divider as the comparison frequency of 200kHz. The VCO output with the frequency synchronized is input to IC9 (prescaler IC) pin2 via Q33 and Q21. The 49.5MHz signal is frequency-divided into halves by IC9 and is excited by Q53 and distributed. One is input to IC12 (pin1) via Buffer amplifier_Q35. The other is input to IC13 (pin4) via Buffer amplifier_Q36. Both are input as approximately -16dBm for the second local oscillator Lower hetero signal. The control voltage at this point is input to IC30 (ADC) pin10 via IC33.

4-7. 接收机 PLL 电路

接收机单元 (X55-310) 具有第 1 PLL 电路, 用于控制对第一本地振荡器生成外差信号的 VCO; 以及第 2 PLL 电路, 用于控制对第二本地振荡器生成外差信号的 VCO。

第 1 PLL 电路由 VCO (Q7 和 Q8)、缓冲放大器 (Q17)、RF 放大器 (Q16 和 Q3)、PLL-IC (IC5)、有源环路滤波器 (Q2 和 Q4) 以及波段开关 (Q14、Q10、Q11 和 Q59) 组成。VCO Q7 生成的 390.05 (C)、350.05 (C2) 到 405.05MHz (C)、365.05MHz (C2) 以下频带中的信号, 以及 VCO Q8 生成的 405.05 (C)、365.05 (C2) 到 420.05MHz (C)、380.05MHz (C2) 频带中的信号, 经 Q17 和 Q16 输入 IC5 (引脚 5) 作为 Fin 信号。DDSIC (IC7) 生成的 6MHz 基准信号经 Q3 输入到 IC5 (引脚 8)。Fin 和 REFin 两种信号由各自的分频器进行相位对比, 作为 100kHz 比较频率。频率同步的 VCO 输出经 Q17、Q23 和 Q18 输入到第 1 混频器, 作为约 +17dBm 的第一本地振荡器下差信号。控制电压经 IC6 输入到 IC30 (ADC) 引脚 16。

同时, 第 2 PLL 电路由 VCO (Q24)、缓冲放大器 (Q33)、RF 放大器 (Q38、Q22) 和 PLL-IC (IC11) 组成。Q24 生成的 99.0MHz 信号经 Q38 输入到 IC11 (引脚 5), 作为 Fin 信号。发射机单元 (X56-312) 分配的 19.2MHz 内部基准时钟作为 REFin 信号经 Q22 输入到 IC11 (引脚 8)。Fin 和 REFin 两种信号由各自的分频器进行相位对比, 作为 200kHz 的比较频率。频率同步的 VCO 输出经 Q33 和 Q21 输入到 IC9 (预计数器 IC) 引脚 2。49.5MHz 信号由 IC9 分频到一半, 由 Q53 激励并进行分配。一个通过缓冲放大器_Q35 输入到 IC12 (引脚 1)。另一个通过缓冲放大器_Q36 输入到 IC13 (引脚 4)。二者以约 -16dBm 输入, 用于第二本地振荡器下差信号。此处的控制电压经 IC33 输入到 IC30 (ADC) 引脚 10。

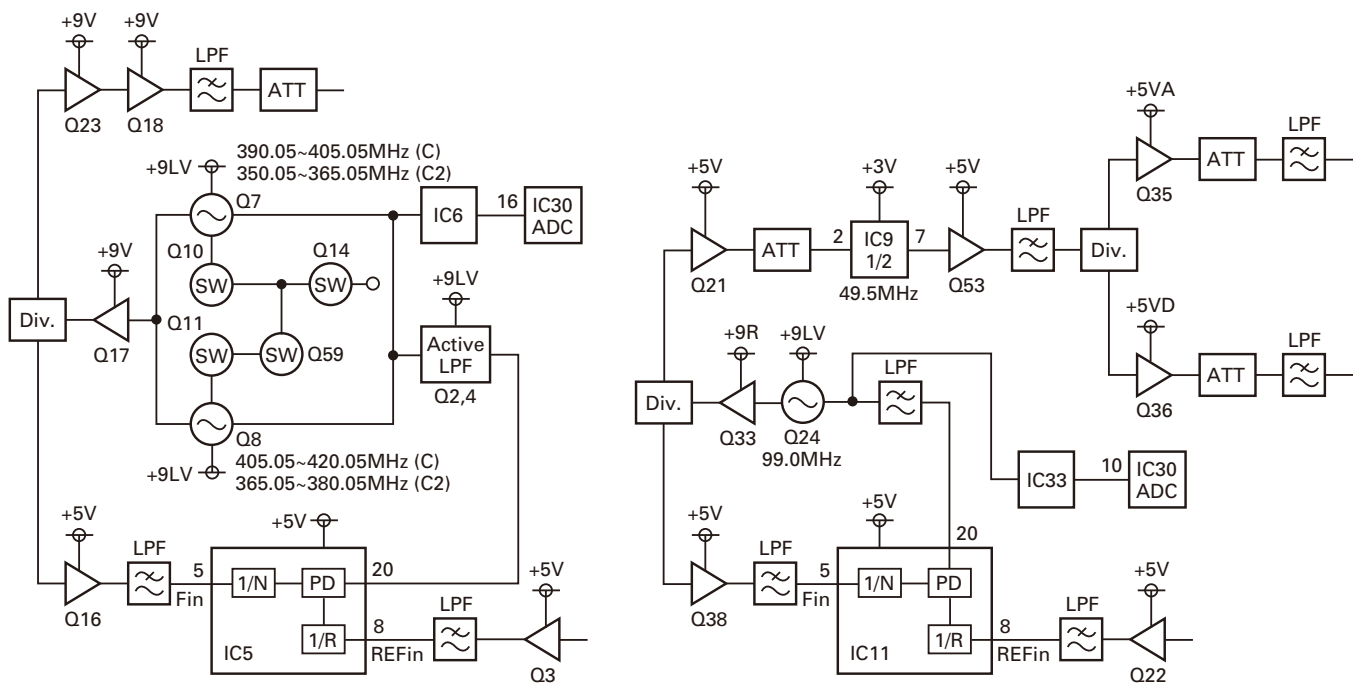


Fig. 21 Receiver PLL circuits / 图 21 接收机 PLL 电路

CIRCUIT DESCRIPTION / 电路说明

4-8. AVR circuit

The power supply voltage supplied from the power unit (X45-386 C/5) is distributed from the receiver unit (X55-310) CN44 to IC24 (8V), IC25 (8V), IC26 (9V), and IC27 (9V) via the Q52 DC switch. The output of IC24 is supplied to the 1st-IF circuits, the 1st-Local amplifiers and the IF system IC_IC12 via IC15 (5V). Further, the output of IC25 is distributed to IC16 (5V), IC17 (5V), IC18 (5V) and IC19 (5V). The output of IC16 is supplied to IF system IC_IC13. The output of IC25 is distributed to IC16 (5V), IC17 (5V), IC18 (5V) and IC19 (5V). The output of IC16 is supplied to IF system IC_IC13. The output of IC17 is supplied to the 2nd-Local amplifiers. The output of IC18 is supplied to the 1st-PLL and the 2nd-PLL. The output of IC19 is supplied to the DDS circuit. The output of IC26 is supplied to LNA_Q1. The output of IC27 is supplied to the VCO buffer amplifiers_Q17, Q33, the 1st-VCO and the 2nd-VCO via Active ripple filters_Q9, Q27, and to the Active loop filter_Q2, Q4 via the Active ripple filters_Q6.

4-8. AVR 电路

功率单元提供的电源电压从接收机单元 (X55-310) CN44 经 Q52 DC 开关分配到 IC24 (8V)、IC25 (8V)、IC26 (9V) 和 IC27 (9V)。IC24 的输出经 IC15 (5V) 提供给第 1 IF 电路、第 1 本地放大器和 IF 系统 IC_IC12。此外，IC25 的输出被分配到 IC16 (5V)、IC17 (5V)、IC18 (5V) 和 IC19 (5V)。IC16 的输出被提供给 IF 系统 IC_IC13。IC17 的输出被提供给第 2 本地放大器。IC18 的输出被提供给第 1 PLL 和第 2 PLL。IC19 的输出被提供给 DDS 电路。IC26 的输出被提供给 LNA_Q1。IC27 的输出通过有源纹波滤波器 Q9、Q27 提供给 VCO 缓冲放大器 Q17、Q33、第 1 VCO 和第 2 VCO，通过有源环路滤波器 Q2、Q4 提供给有源环路滤波器 Q2、Q4。

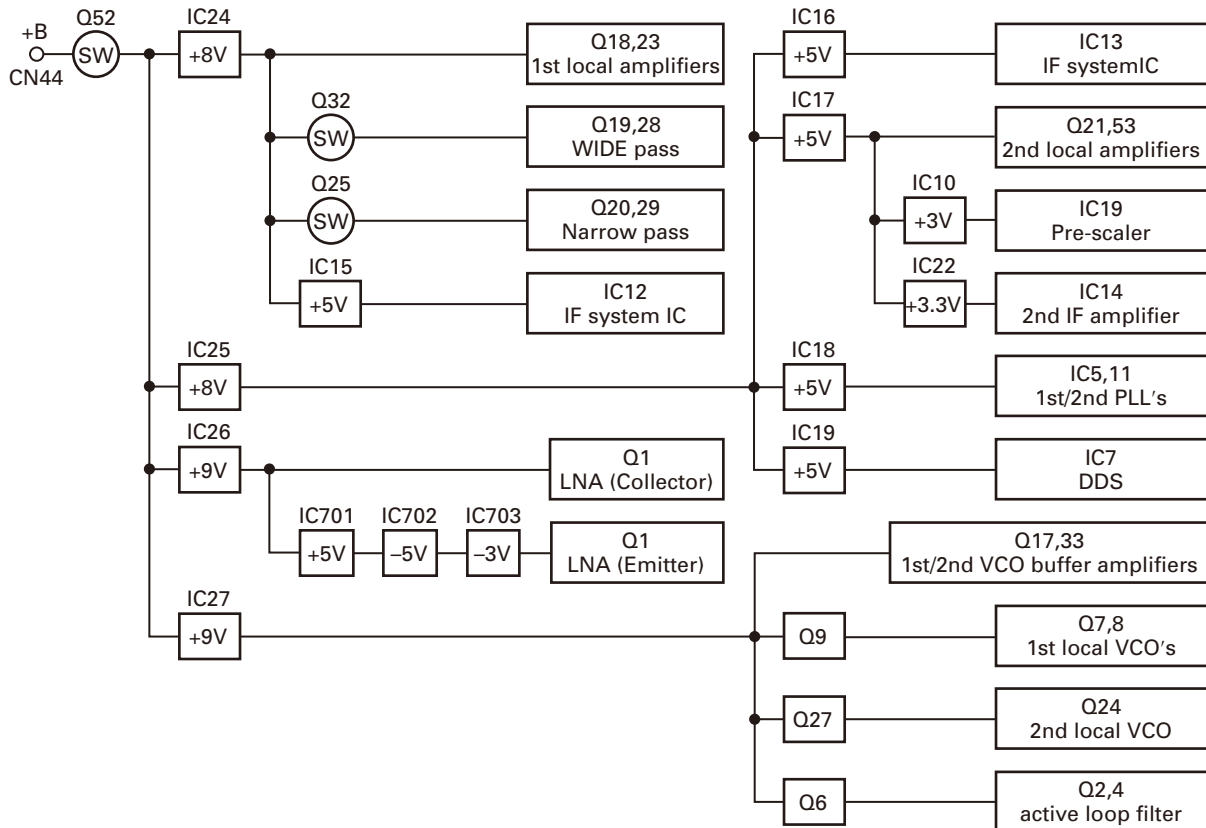


Fig. 22 AVR circuit / 图 22 AVR 电路

4-9. Other circuits

Other circuits include the EEPROM (IC31), the temperature sensor IC (IC35), the DAC (IC23) and the ADC (IC30). IC31 saves various adjustment values of the receiver unit. IC35 is built-in for detecting changes in temperature. IC23 offsets the RSSI voltage (pin1) (detected by the IF system IC (IC12)) and the 1st-VCO_A, VCO_B control voltage (pin2, pin3).

IC30 monitors the 1st-VCO control voltage (pin16), the LNA current detection value (pin15), the temperature detected by the temperature sensor IC (IC35 pin14), the RSSI

4-9. 其它电路

其它电路包括 EEPROM (IC31)、温度传感器 IC (IC35)、DAC (IC23) 和 ADC (IC30)。IC31 保存接收机单元的各项调整值。IC35 为内置式，用于检测温度变化。IC23 偏置 RSSI 电压 (引脚 1) (由 IF 系统 IC (IC12) 检测) 和第 1 VCO_A、VCO_B 控制电压 (引脚 2、引脚 3)。

IC30 监测第 1 VCO 控制电压 (引脚 16)、LNA 电流检测值 (引脚 15)、温度传感器 IC (IC35 引脚 14) 检测的温度、IF 系统

NXR-800H

CIRCUIT DESCRIPTION / 电路说明

voltage detected by the IF system IC (IC12 pin12), the squelch voltage detected by the IF system IC (IC12 pin11), and the control voltage of the 2nd-VCO (pin10), and outputs each state in serial data (IC30 pin18), sends the signal from CN42 (pin22) to the control unit (X53-413). The signal is processed by the MPU.

IC (IC12 针脚 12) 检测的 RSSI 电压、IF 系统 IC (IC12 针脚 11) 检测的静噪电压以及第 2 VCO (针脚 10) 的控制电压, 并在串行数据 (IC30 针脚 18) 中输出各种状态, 将 CN42 (针脚 22) 的信号发送到控制单元 (X53-413)。信号由 MPU 进行处理。

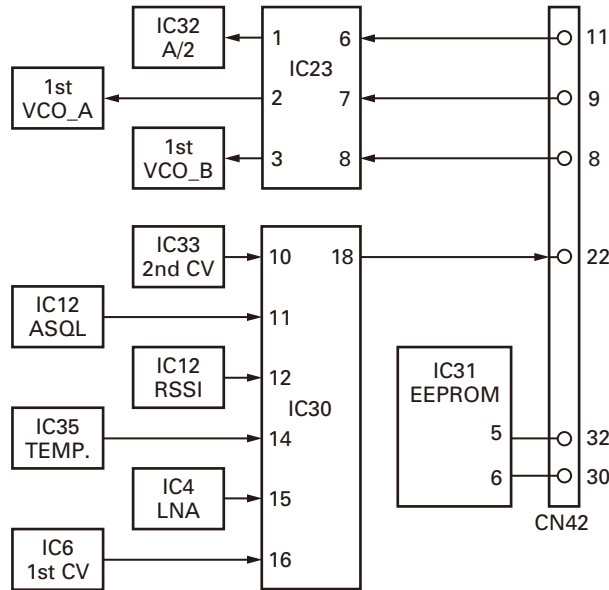


Fig. 23 Other circuits / 图 23 其它电路

5. Base-Band Signal Processing Part

The base-band circuit is located on unit X53-413. This circuit enables the selection of the Analog Signal Processing mode and the Digital Signal Processing mode, and adjusts the level of the base-band signals in each mode. This circuit consists of IC2, IC3, IC5, IC8, IC9, IC12, IC14, IC19, IC20 and IC21.

The type of input modulation signals are local microphone terminal, low-speed data (LSD), high-speed data (HSD), external audio input (TA), and external data input (TD), and also the type of output demodulation signals are receiving audio output (RA), and receiving data output (RD).

The multiplexer (IC2, IC3, IC14) selects the signal path, the electronic volume (IC8) adjusts the signal level, and the operational amplifiers (IC5, IC9, IC12, IC19, IC20, and IC21) amplify and sum various signals.

5-1. Demodulation circuit (Analog/NXDN signal processing)

In case of the Analog Signal Processing mode, the detected audio signal obtained from the IF SYSTEM IC (X55-307 IC8) is amplified by IC5 (A/2), input into the AINR terminal of CODEC IC (IC4), and then processed as an audio signal by the DSP (IC37). The processed audio signal from the AOUTR terminal of IC4 is amplified to a sufficient level by IC12 (A/2), and is then passed through the anti-aliasing filter at IC12 (B/2).

In case of the NXDN Signal Processing mode, the detected audio/data signal obtained from the IF SYSTEM IC (X55-

5. 基带信号处理部分

基带电路位于单元 X53-413 上。该电路可实现模拟信号处理模式和数字信号处理模式的选择, 并调整各模式基带信号的电平。该电路由 IC2、IC3、IC5、IC8、IC9、IC12、IC14、IC19、IC20 和 IC21 组成。

输入调制信号的类型包括本地麦克风端子、低速数据 (LSD)、高速数据 (HSD)、外部音频输入 (TA) 和外部数据输入 (TD), 输出解调信号的类型包括接收音频输出 (RA) 和接收数据输出 (RD)。

多路器 (IC2、IC3、IC14) 选择信号路径, 电子音量 (IC8) 调整信号电平, 运算放大器 (IC5、IC9、IC12、IC19、IC20 和 IC21) 放大并累加信号。

5-1. 解调电路 (模拟/NXDN 信号处理)

在模拟信号处理模式中, 从 IF SYSTEM IC (X55-307 IC8) 获得的经检测的音频信号由 IC5 (A/2) 放大, 输入到 CODEC IC (IC4) 的 AINR 端子, 然后作为音频信号由 DSP (IC37) 进行处理。IC4 的 AOUTR 端子的已处理音频信号由 IC12 (A/2) 放大到足够的电平, 然后通过 IC12 (B/2) 的抗混叠滤波器。

在 NXDN 信号处理模式中, 从 IF SYSTEM IC (X55-307 IC7)

CIRCUIT DESCRIPTION / 电路说明

307 IC7) is input into the ADC (X53-414 IC312). Receiving signal processing is performed by RX_DSP (X53-414 IC323), and voice decode processing is performed by TX_VOCDER DSP (X53-414 IC324). The processed audio signal from the AOUTL terminal of CODEC IC (X53-414 IC309) is amplified to a sufficient level by IC20 (D/4), and is then passed through the anti-aliasing filter at IC20 (C/4).

The audio signal path is selected by multiplexer (IC14) depending on the Analog mode (IC14 is setting Y=Y0) or the NXDN mode (IC14 is setting Y=Y1). The audio signal is then routed through an electronic volume (IC8) V3/V4 to multiplexer IC (IC25), and is amplified to a sufficient level to drive the loudspeaker using an audio power amplifier (IC29).

5-2. Audio amplifier circuit

The audio amplifier circuit is located in the control section of the Control unit (X53-413).

The 3W output audio power is available from the pin15 test connector "SPO, SPG" on the rear panel to the external speaker in the case of a 13.2V power supply voltage and 4 ohm load.

5-3. Microphone circuit

The signal from the microphone is passed through the AGC circuit located in the DISPLAY circuit (X56-312 B/3) so that it may not saturate. This circuit consists of IC926, D933, D934 Q931, and Q932. The AGC controls the amplifier gains using the detected audio signal depending on the positive and negative peaks of the signal amplitude. The audio signal goes to the control section of the Control unit (X53-413) from the DISPLAY circuit (X56-312 B/3).

5-4. Modulation circuit

(Analog/NXDN signal processing)

The transmitting audio signal goes to the input terminal of the multiplexer IC (IC3) for microphone muting.

In case of the Analog Signal Processing mode (multiplexer IC3 is setting X=X0), the audio signal is amplified by IC9 (A/4), input to the AINL terminal of the CODEC IC (IC4), and audio processed by the DSP (IC37). The processed audio signal from the AOUTL terminal of IC4 is amplified to a sufficient level by IC9 (B/4), and is then passed through an anti-aliasing filter at IC9 (C/4), and amplified by the summing (TD) amplifier IC9 (D/4).

On the other hand, in the case of the NXDN Signal Processing mode (multiplexer IC3 is setting X=X1), the audio signal is amplified by IC20 (A/4), input to the AINL terminal of the CODEC IC (X53-414 IC309), and processed by the TX_VOCDER DSP (X53-414 IC324). The processed audio signal from the AOUTR terminal of IC309 passes through the anti-aliasing filter at IC19 (B/2).

6. Control Circuit

The control circuit consists of two units, X53-413 and X53-414.

Unit X53-413 mainly has the power supply circuit, base-band signal path selection circuit (level adjustment is included), analog mode voice codec circuit, and RF controller circuit.

获得的已检测音频 / 数据信号被输入到 ADC (X53-414 IC312)。接收信号的处理由 RX_DSP (X53-414 IC323) 执行，语音解码处理由 TX_VOCDER DSP (X53-414 IC324) 执行。CODEC IC (X53-414 IC309) 的 AOUTL 端子的已处理音频信号由 IC20 (D/4) 放大到足够的电平，然后通过 IC20 (C/4) 的抗混叠滤波器。

音频信号路径由多路器 (IC14) 根据模拟模式 (IC14 设置 Y=Y0) 或 NXDN 模式 (IC14 设置 Y=Y1) 作出选择。然后，音频信号经由 (IC8) V3/V4 发送到多路器 IC (IC25)，然后被放大到足够的电平，用音频功率放大器 (IC29) 驱动扬声器。

5-2. 音频放大器电路

音频放大器电路位于控制单元 (X53-413) 的控制部分。

在电源电压 13.2V、负载 4 ohm 的情况下，从后面板上的针脚 15 测试连接器 "SPO, SPG" 到外部扬声器可获得 3W 输出功率。

5-3. 麦克风电路

麦克风的信号通过位于 DISPLAY 电路 (X56-312 B/3) 内的 AGC 电路，因此它不会饱和。该电路由 IC926、D933、D934 Q931 和 Q932 组成。AGC 利用检测的音频信号，根据信号幅度的正负峰值控制放大器增益。音频信号从 DISPLAY 电路 (X56-312 B/3) 进入控制单元 (X53-413) 的控制部分。

5-4. 解调电路

(模拟 / NXDN 信号处理)

发射音频信号进入用于麦克风静音的多路器 IC (IC3) 的输入端子。

在模拟信号处理模式中 (多路器 IC3 设置 X=X0)，音频信号由 IC9 (A/4) 放大，输入到 CODEC IC (IC4) 的 AINL 端子，由 DSP (IC37) 进行音频处理。IC4 的 AOUTL 端子的已处理音频信号由 IC9 (B/4) 放大到足够的电平，然后通过 IC9 (C/4) 的抗混叠滤波器，并由加法 (TD) 放大器 IC9 (D/4) 进行放大。

另一方面，在 NXDN 信号处理模式中 (多路器 IC3 设置 X=X1)，音频信号由 IC20 (A/4) 放大，输入到 CODEC IC (X53-414 IC309) 的 AINL 端子，由 TX_VOCDER DSP (X53-414 IC324) 进行处理。IC309 的 AOUTR 端子的已处理音频信号通过 IC19 (B/2) 的抗混叠滤波器。

6. 控制电路

控制单元由 X53-413 和 X53-414 两个单元组成。

单元 X53-413 主要包括电源电路、基带信号路径选择电路 (包括电平调整)、模拟模式语音编解码电路以及 RF 控制器电路。

NXR-800H

CIRCUIT DESCRIPTION / 电路说明

Unit X53-414 has the mode selection (analog or NXDN) circuit, NXDN mode communication processing circuit, LAN interface circuit, and Compact Flash interface circuit.

单元 X53-414 包括模式选择 (模拟或 NXDN) 电路、NXDN 模式通信处理电路、LAN 接口电路以及 Compact Flash 接口电路。

6-1. X53-413

■ RF control MPU

The IC34 RF control MPU is a 16-bit single chip microprocessor incorporating 256K bytes of ROM and 20K bytes of RAM.

This MPU controls the Flash ROM, DSP, receiver unit, transmitter unit, and EEPROM of each unit, and the display circuit, and has communication I/F with external devices.

■ DSP

The DSP circuit is in charge of the filtering of transmitting and receiving signals, and the encoding and decoding of sub-audible signals (encode: QT, DQT, DTMF, decode: QT, DQT, DTMF).

This circuit consists of IC37, IC30, IC31, IC4, IC5, IC9, and IC12.

The receiving signal, DET is converted from analog to digital by IC4 with a sampling frequency of 16.128kHz. The digitized audio signal is sent to the DSP (IC37) to process the sub-audible signal and audio signal. The processed digital audio signal is applied to CODEC IC4, and is converted from digital to analog. The analog signal is output from pin16 (AOUTR). The audio signal is then amplified by IC12 (A/2), passes through the low-pass filter at IC12 (B/2), is selected by the multiplexer IC14 (Y0=Y) and is then input into an electronic volume IC8.

On the other hand, the transmitting audio signal output from IC3 is amplified by IC9 (A/4), applied to pin 3 (AINL) of CODEC IC4, and is then converted from analog to digital at a sampling frequency of 16.128kHz. The digitized transmitting audio signal is AGC-processed, pre-emphasized and filtered, except for the 300Hz to 3kHz range, by DSP IC37, and is then feed back to CODEC IC4, converted from digital to analog, and the analog signal is output from pin15 (AOUTL). The transmitting signal from the AOUTL is amplified by IC9 (B/4), passed through the IC9 (C/4) low-pass filter, and sent to the IC9 (D/4) summing amplifier.

IC31 is a counter IC. The clock required for the CODEC and DSP is generated by dividing the 16.515072MHz clock signal supplied by the DSP IC37.

6-1. X53-413

■ RF 控制 MPU

IC34 RF 控制 MPU 是一个 16 位单片微处理器, 结合了 256K 字节的 ROM 和 20K 字节的 RAM。

该 MPU 控制 Flash ROM、DSP、接收机单元、发射机单元、各单元的 EEPROM 以及显示电路, 并有与外部设备的通信 I/F。

■ DSP

DSP 电路负责发射和接收信号的过滤, 以及亚音信号的编码和解码 (编码: QT、DQT、DTMF, 解码: QT、DQT、DTMF)。

该电路由 IC37、IC30、IC31、IC4、IC5、IC9 和 IC12 组成。

接收信号、DET 由 IC4 以 16.128kHz 的取样频率从模拟信号转换为数字信号。数字化的音频信号被发送到 DSP (IC37), 对亚音信号和音频信号进行处理。经过处理的数字音频信号施加于 CODEC IC4, 从数字转换为模拟。模拟信号从引脚 16 (AOUTR) 输出。然后, 音频信号由 IC12 (A/2) 放大, 通过 IC12 (B/2) 的低通滤波器, 由多路器 IC14 (Y0=Y) 进行选择, 然后被输入到电子音量 IC8。

另一方面, 从 IC3 输出的发射音频信号由 IC9 (A/4) 放大, 施加于 CODEC IC4 的引脚 3 (AINL), 然后从模拟信号转换为取样频率为 16.128kHz 的数字信号。除 300Hz 到 3kHz 的范围外, 数字化的发射音频信号由 DSP IC37 进行 AGC 处理、预加重和过滤, 然后反馈到 CODEC IC4, 从数字转换到模拟, 模拟信号从引脚 15 (AOUTL) 输出。AOUTL 的发射信号由 IC9 (B/4) 放大, 通过 IC9 (C/4) 低通滤波器, 然后发送到 IC9 (D/4) 加法放大器。

IC31 是一个计数器 IC。通过分割 DSP IC37 提供的 16.515072MHz 时钟信号, 生成 CODEC 和 DSP 所需的时钟。

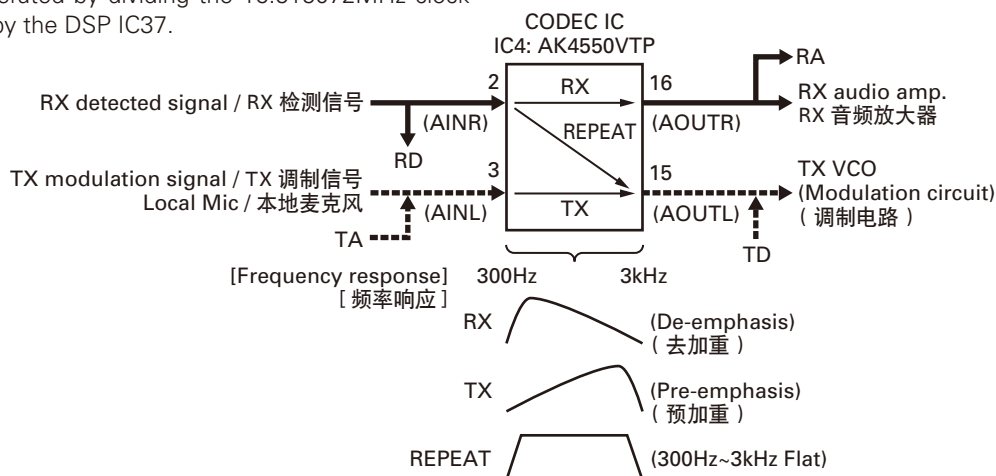


Fig. 24 An audio signal course and the frequency characteristic / 图 24 音频信号路径和频率特性

CIRCUIT DESCRIPTION / 电路说明

■ Shift register circuit

The MPU (IC34) transmits serial data to shift registers IC923 from IC923 to IC960 and from IC960 to IC963 in the display circuit (X56-312 B/3, C/3).

Additionally, it transmit serial data to the control unit (X53-413) IC1 and IC22 and the transmitter unit (X56-312) IC703. This serial data can control various functions of each unit.

■ Power supply circuit

This circuit consists of X53-413 IC6, IC10, IC11, IC15, IC16 and 18, and X53-414 IC305, IC306, IC307 and IC329.

IC11 is a DC/DC converter that converts 13.2V to 5.0V. IC10 is a DC/DC converter that converts 13.2V to 8.0V. IC16 is the 5.0V AVR and connected to IC10. IC6, IC15, IC305 and IC329 is the 3.3V AVR. IC18 is the 1.8V AVR. IC306 is the 1.5V AVR. IC18 and IC306 is connected to IC329.

■ Flash ROM (RF control MPU)

IC17 is an 8M-bit Flash ROM and contains MPU firmware for controlling the RF.

■ EEPROMs circuit

The EEPROM is a built in receiver unit (X55-310), transmitter unit (X56-312) and Final unit (X45-386).

The RF control MPU controls these EEPROMs by the IIC bus.

6-2. X53-414

■ Main MPU

The Main MPU (IC703) is a 32-bit RISC microprocessor incorporating a 16K bytes cache memory.

The main MPU controls the Flash ROM, SDRAM, SRAM, LAN IC, RS-232C driver, receiver and real-time clock (RTC) IC besides RF control MPU and UART communication with modem control MPU.

■ LAN interface

NXR-800H is equipped with a 100Base-TX or 10Base-T LAN interface. This circuit consists of IC719, IC720 and J700. IC719 is a control IC. IC720 is a EEPROM, and saves the MAC address.

■ Real time clock (RTC) circuit

This circuit consists of IC710 and X701. IC710 is a Real Time Clock. X701 is a crystal oscillator. IC710 is connected to IC703 (Main MPU) via the IIC bus. The oscillating frequency of X701 is 32.768kHz. It is backed up by a rechargeable lithium battery (BA300). The IC710 clock data is used after resetting the backup.

■ RS-232C circuit

NXR-800H is equipped with a RS-232C interface. It is connected to a PC with pin9 female RS-232C cross-wired cable. It uses the FPU and writes the firmware. IC705 is a RS-232C driver receiver IC, and interfaces at the TTL232C level.

■ Modem control MPU

Modem control MPU (IC325) is 16-bit single chip microprocessor incorporating 256K bytes of ROM and 20K bytes of RAM.

■ 移位寄存器电路

MPU (IC34) 将串行数据发送到显示电路 (X56-312 B/3, C/3) 中的移位寄存器 IC923, 从 IC923 发到 IC960, 然后从 IC960 发到 IC963。

此外, 它还将串行数据发送到控制单元 (X53-413) IC1 和 IC22 以及发射机单元 (X56-312) IC703。此串行数据可控制各单元的各项功能。

■ 电源电路

该电路由 X53-413 IC6、IC10、IC11、IC15、IC16 和 18、X53-414 IC305、IC306、IC307 和 IC329 组成。

IC11 是将 13.2V 转换为 5.0V 的 DC/DC 转换器。IC10 是将 13.2V 转换为 8.0V 的 DC/DC 转换器。IC16 是连接 IC10 的 5.0V AVR。IC6、IC15、IC305 和 IC329 是 3.3V AVR。IC18 是 1.8V AVR。IC306 是 1.5V AVR。IC18 和 IC306 连接 IC329。

■ Flash ROM (RF 控制 MPU)

IC17 是一个 8M-bit Flash ROM, 含有用于控制 RF 的 MPU 固件。

■ EEPROM 电路

EEPROM 是内置接收机单元 (X55-310)、发射机单元 (X56-312) 和末级单元 (X45-386)。

RF 控制 MPU 通过 IIC 总线控制这些 EEPROM。

6-2. X53-414

■ 主 MPU

主 MPU (IC703) 是一个 32 位 RISC 微处理器, 采用 16K 字节缓存。

除 RF 控制 MPU 和 UART 与调制解调器控制 MPU 的通信外, 主 MPU 还控制 Flash ROM、SDRAM、SRAM、LAN IC、RS-232C 驱动器、接收机和实时时钟 (RTC) IC。

■ LAN 接口

NXR-800H 配备 100Base-TX 或 10Base-T LAN 接口。该电路由 IC719、IC720 和 J700 组成。IC719 是一个控制 IC。IC720 是一个 EEPROM, 可保存 MAC 地址。

■ 实时时钟 (RTC) 电路

该电路由 IC710 和 X701 组成。IC710 是一个实时时钟。X701 是一个晶体振荡器。IC710 通过 IIC 总线连接到 IC703 (主 MPU)。X701 的振荡频率为 32.768kHz。它由一个可充电锂电池 (BA300) 支持。备份重置后使用 IC710 时钟数据。

■ RS-232C 电路

NXR-800H 配备一个 RS-232C 接口。它通过 9 针母头 RS-232C 交叉电缆连接到 PC。它使用 FPU 并写入固件。IC705 是一个 RS-232C 驱动器接收器 IC, 以 TTL232C 标准连接。

■ 调制解调器控制 MPU

调制解调器控制 MPU (IC325) 是一个 16 位单片微处理器, 采用 256K 字节的 ROM 和 20K 字节的 RAM。

NXR-800H

CIRCUIT DESCRIPTION / 电路说明

This MPU controls the Flash Rom, two DSPs, the OCXO unit in the transmitter unit (X42-328) and the PLL circuit.

It also monitors the external power supply voltage. If the voltage is abnormal, it stops the system.

■ RX DSP (IC323)

In NXDN mode, the IF signal input from the ADC (IC312) to the RX DSP is limited to a narrow band or a very narrow band. So, it passes through the IF band limitation band.

This signal is demodulated by the wave detection processing part. The demodulated wave is made to pass through the base band limitation filter (root nyquist cosine filter and 1/sinc filter).

This signal is symbol-detected and bit-judged, and is then converted to NXDN data. Its frame timing is detected and decoded for CAI (Common Air Interface: NXDN format) data error correction.

Audio data is vocoder decode processed by the IC324 TX_Vocoder_DSP. It is then converted into the PCM signal. It is analog-output as an audio signal by the DAC part of the Audio codec IC (IC309 AOUTL terminal).

该 MPU 控制 Flash Rom、两个 DSP、发射机单元 (X42-328) 中的 OCXO 单元和 PLL 电路。

它还监测外部电源电压。如果电压异常，它将停止系统。

■ RX DSP (IC323)

在 NXDN 模式中，从 ADC (IC312) 输入 RX DSP 的 IF 信号被限制为窄频带和超窄频带。因此，它将通过 IF 带限制频带。

该信号由检波处理部分解调。制作的解调波通过基带限制滤波器（根奈奎斯特余弦滤波器和 1/sinc 滤波器）。

该信号经过符号检测和位数判定，然后被转换成 NXDN 数据。其帧时序被检测和解码，用于 CAI (公共空中接口：NXDN 格式) 数据纠错。

音频数据由 IC324 TX_声码器 DSP 进行声码器解码处理。然后，它被转换为 PCM 信号。它被音频编解码器 IC 的 DAC 部分 (IC309 AOUTL 端子) 模拟输出为音频信号。

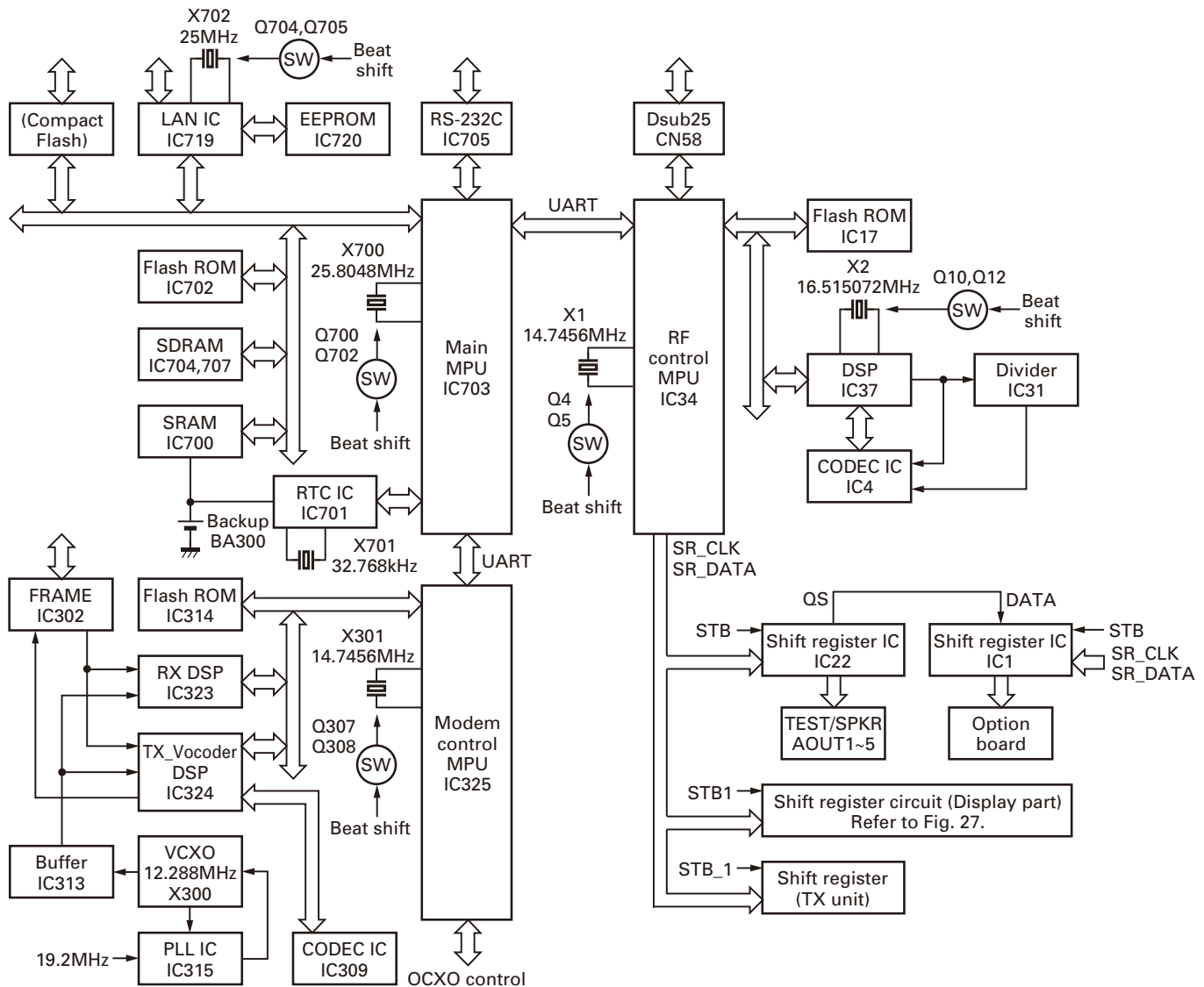


Fig. 25 Control circuit / 图 25 控制电路

CIRCUIT DESCRIPTION / 电路说明

■ TX_Vocoder DSP

In NXDN mode, the AMBE+2 (TM) vocoder processing is performed by the IC324 TX_Vocoder_DSP.

Audio signal input from the Audio codec IC ADC part (IC309 AINL) terminal is vocoder encode processed and converted to audio data.

CAI data is encoded for correcting errors and converted to transmitter data.

This data is framed, converted to symbol values and made to pass the base band limitation filter (root nyquist cosine filter and sinc filter). The passed signal turns into a modulating signal. It is output as an analog signal by the Audio codec IC DAC part (IC309 AOATR terminal).

■ TX_声码器 DSP

在 NXDN 模式中，由 IC324 TX 声码器 DSP 进行 AMBE+2(TM) 声码器处理。

从 IC ADC 部分 (IC309 AINL) 端子输入的音频信号经过声码器编码处理后，转换成音频数据。

CAI 经过纠错编码后转换成发射机数据。

该数据成帧、转换为符号值并通过基带限制滤波器（根奈奎斯特余弦滤波器和 sinc 滤波器）。通过的信号变成调制信号。它被音频编解码器 IC 的 DAC 部分 (IC309 AOATR 端子) 作为模拟信号输出。

■ Power supply voltage monitoring circuit

This circuit always monitors the external power supply voltage assuming that the abnormal power supply voltage is applied. This circuit consists of X53-413 R67, R68, R71, and R79 and IC7, and X53-414 IC308. If the voltage is reduced, these circuits interrupt the Modem control MPU (IC325) and NXR-800H rapidly shift to the power down state. The IC325 A/D converter (pin124) monitors the voltage. It detects the voltage rises and returns to the normal voltage range.

■ 电源电压监测电路

该电路始终在假定施加异常电源的情况下监测外部电源的电压。该电路由 X53-413 R67、R68、R71、R79、IC7 和 X53-414 IC308 组成。如果电压下降，这些电路会中断调制解调器控制 MPU (IC325)，NXR-800H 迅速切换到掉电状态。IC325 A/D 转换器（引脚 124）监测电压。它检测电压的升高并返回正常电压范围。

■ Reset circuit

Reset system diagrams of each device of NXR-800H are attached. With regard to the priority of the reset signal of each device, IC303 that prepares the reset signal of IC325 has the highest priority. Software of IC325 can activate devices including IC323, IC324, IC703, IC700, IC702, IC719, IC34, and IC17. Software of IC703 can activate the reset of IC325.

■ 复位电路

附有 NXR-800H 各装置的复位系统图。在各装置的复位信号的优先顺序方面，准备 IC325 的复位信号的 IC303 具有最高优先权。IC325 的软件可激活包括 IC323、IC324、IC703、IC700、IC702、IC719、IC34 和 IC17 在内的装置。IC703 可启动 IC325 的复位。

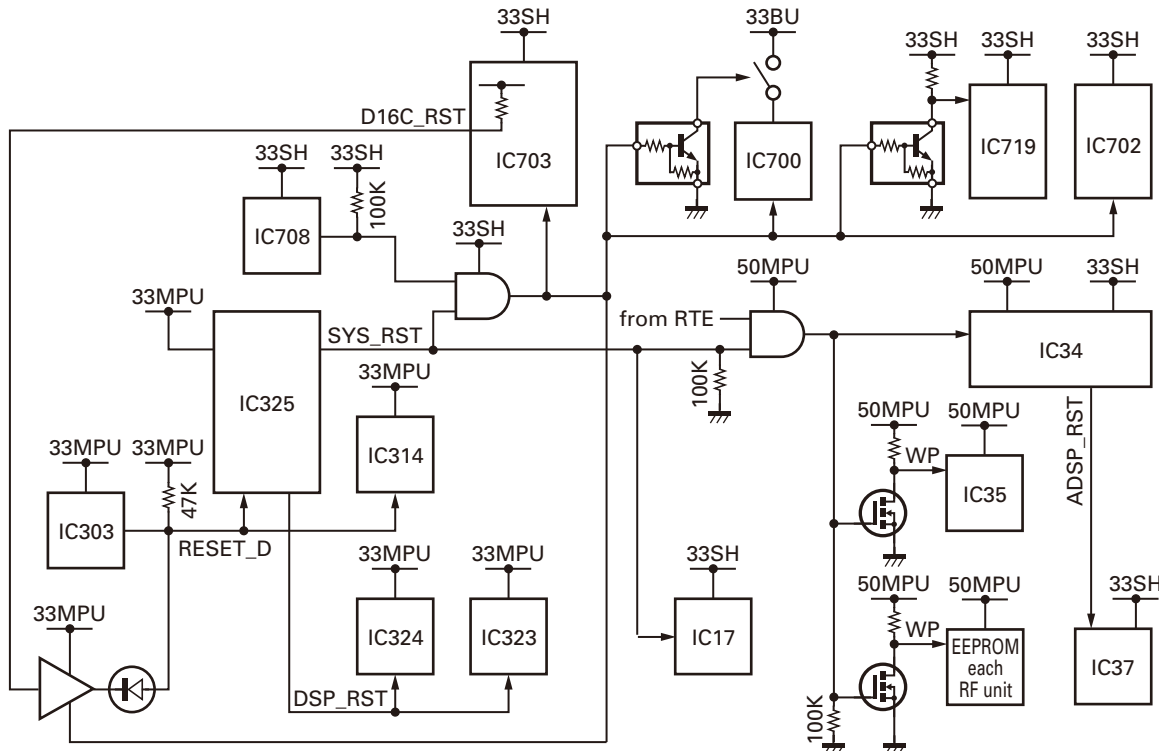


Fig. 26 Reset circuit / 图 26 复位电路

NXR-800H

CIRCUIT DESCRIPTION / 电路说明

■ Clock shift circuit

NXR-800H control unit has a crystal oscillation circuit shown below.

X53-4132-71:

14.7456MHz (IC34 and X1)
16.515072MHz (IC37 and X2)

X53-4140-10:

14.7456MHz (IC325 and X301)
25.8048MHz (IC37 and X2)
25MHz (IC719 and X702)

Each oscillation circuit turns on the NPN transistor “2SC4738(GR)F” and staggers the oscillating frequency by approximately -70ppm . This may prevent interference against transmitter and receiver frequencies. Each transistor is turned on and off by the FPU.

■ Flash ROM (Main MPU)

IC702 is a 128M-bit Flash ROM and contains the firmware of the Main MPU.

■ Flash ROM (Modem control MPU)

IC314 is an 8M-bit Flash ROM and contains the firmware of the Modem control MPU, RX DSP, and TX_Vocoder_DSP.

■ SDRAM

IC704 and IC707 are program execution 128M-bit memory used by the Main MPU.

■ SRAM

IC700 is a memory backed up by a lithium battery (BA300). The memory size is 16M-bit. It contains data required for the system backup.

■ Frame synchronizing signal transmitter and receiver circuit

J702 and J703 are connectors for synchronizing with other repeaters in NXDN trunking mode. The differential rectangular wave that conforms to RS-485, 12.5Hz or 25Hz is input to and output from this connector for synchronizing multiple repeaters.

In the repeater system, any given repeater outputs a synchronizing signal and that synchronous signal is input to other remaining repeaters.

With regards to the output of the synchronous signal, the frame signal generated by TX_Vocoder_DSP (IC324) is differentially output by IC302.

With regards to the input of the synchronous signal, IC302 receives a differential signal, and is input to the interruption of the RX DSP (IC323) and TX_Vocoder_DSP (IC324).

■ 12.288MHz clock PLL circuit

The PLL circuit is installed in the control unit (X53-414) for operating the RX DSP and TX_Vocoder DSP.

The PLL circuit consists of X300 (12.288MHz VCXO), IC315 (PLL IC), Q300, Q304, Q305, and IC313.

The purpose of this PLL circuit is to synchronize with the 19.2MHz reference signal controlled by the 10MHz OCXO (deviation $\pm 0.4\text{ppm}$) in the transmitter unit (X56-312).

■ 时钟位移电路

NXR-800H 控制单元具有如下所示的晶体振荡电路。

X53-4132-71:

14.7456MHz (IC34 和 X1)
16.515072MHz (IC37 和 X2)

X53-4140-10:

14.7456MHz (IC325 和 X301)
25.8048MHz (IC37 和 X2)
25MHz (IC719 和 X702)

各振荡电路开启 NPN 晶体管 “2SC4738(GR)F”，使振荡频率摆动约 -70ppm 。这可以防止对发射机和接收机频率的干扰。各晶体管由 FPU 开启和关闭。

■ Flash ROM (主 MPU)

IC702 是一个 128M-bit Flash ROM，含有主 MPU 的固件。

■ Flash ROM (调制解调器控制 MPU)

IC314 是一个 8M-bit Flash ROM，含有调制解调器控制 MPU、RX DSP 和 TX 声码器 DSP 的固件。

■ SDRAM

IC704 和 IC707 是主 MPU 使用的程序执行 128M-bit 存储器。

■ SRAM

IC700 是由锂电池 (BA300) 支持的存储器。存储器大小为 16M-bit。它含有系统备份所需的数据。

■ 帧同步信号发射机和接收机电路

J702 和 J703 是在 NXDN 集群模式下与其它中继台同步的连接器。符合 RS-485、12.5Hz 或 25Hz 的差分矩形波被输入到该连接器并从该连接器输出，使多个中继台同步。

在中继台系统中，指定的任意中继台输出同步信号，同步信号被输入其余中继台。

对于同步信号的输出，TX 声码器 DSP (IC324) 生成的帧信号由 IC302 差分输出。

对于同步信号的输入，IC302 接收差分信号，并输入到 RX DSP (IC323) 和 TX 声码器 DSP (IC324) 的中断。

■ 12.288MHz 时钟 PLL 电路

PLL 电路安装在控制单元 (X53-414) 内，用于操作 RX DSP 和 TX 声码器 DSP。

PLL 电路由 X300 (12.288MHz VCXO)、IC315 (PLL IC)、Q300、Q304、Q305 和 IC313 组成。

该 PLL 电路的用途是与发射机单元 (X56-312) 内 10MHz OCXO (频偏 $\pm 0.4\text{ppm}$) 控制的 19.2MHz 基准信号同步。

CIRCUIT DESCRIPTION / 电路说明

So, two DSPs can be executed by a +/-0.4ppm clock deviation.

Q300 is a 19.2MHz buffer amp signal input from the transmitter unit (X56-312).

The signal from the transmitter unit is supplied to IC315 pin8 (reference signal input).

12.288MHz from X300 is amplified by Q304 and distributed to two routes. One is amplified by Q305 and input to IC315 pin6 (RF signal input). The other is amplified by IC313 and becomes a clock for the RX DSP and TX_Vocoder DSP.

IC315 compares the reference signal and RF signal and detects their phase errors.

This phase error signal is output from pin2 charge pump (CP), passed through the LPF and is supplied to X300 voltage control pin1.

7. Display Circuit

7-1. Display circuit

The display circuit (X56-312 B/3,C/3) consists of various types of LEDs, 17-segment type D960, D961 (red), D921 (red: transmission), two-color type D920 (green: busy), D922 (green: power on, red blinking: abnormal voltage), D923 (green: CTRL), two-color type D924 (red: OCXO error, green: OCXO normality, orange: external reference signal), 8-bit status LEDs D925 to D932, and LEDs with built in switches S920 to S925.

IC920 to IC925 and IC960 to IC963 are in charge of displaying present channels and states on the front panel. IC923 to IC925 and IC960 to IC963 are shift registers that convert the MPU serial data to parallel data and turn on LEDs.

7-2. Key switches circuit

The logic signals from the front panel key and channel switches (channel selector) are entered directly into the RF MPU (IC34).

因此，可通过 +/-0.4ppm 时钟偏移来执行两个 DSP。Q300 是从发射机单元 (X56-312) 输入的 19.2MHz 缓冲放大器信号。

发射机单元的信号被提供给 IC315 引脚 8 (基准信号输入)。

来自 X300 的 12.288MHz 由 Q304 放大并分配到两路。一路由 Q305 放大并输入 IC315 引脚 6 (RF 信号输入)。另一路由 IC313 放大，变成 RX DSP 和 TX_ 声码器 DSP 的时钟。

IC315 将基准信号和 RF 信号进行比较，检测它们的相位误差。

该相位误差信号从引脚 2 电荷泵 (CP) 输出，通过 LPF 提供给 X300 电压控制引脚 1。

7. 显示电路

7-1. 显示电路

显示电路 (X56-312 B/3、C/3) 由各种 LED、17 段式 D960、D961 (红色)、D921 (红色：发射)、双色式 D920 (绿色：繁忙)、D922 (绿色：电源开，红色闪烁：异常电压)、D923 (绿色：CTRL)、双色式 D924 (红色：OCXO 错误，绿色：OCXO 正常，橙色：外部基准信号)、8 位状态 LED D925 至 D932、以及带内置开关的 LED S920 至 S925 组成。

IC920 至 IC925 和 IC960 至 IC963 负责在前面板上显示当前的信道和状态。IC923 至 IC925 和 IC960 至 IC963 是将 MPU 串行信号转换为并行数据并打开 LED 的移位寄存器。

7-2. 键开关电路

前面板键和信道开关 (信道选择器) 的逻辑信号被直接输入 RF MPU (IC34)。

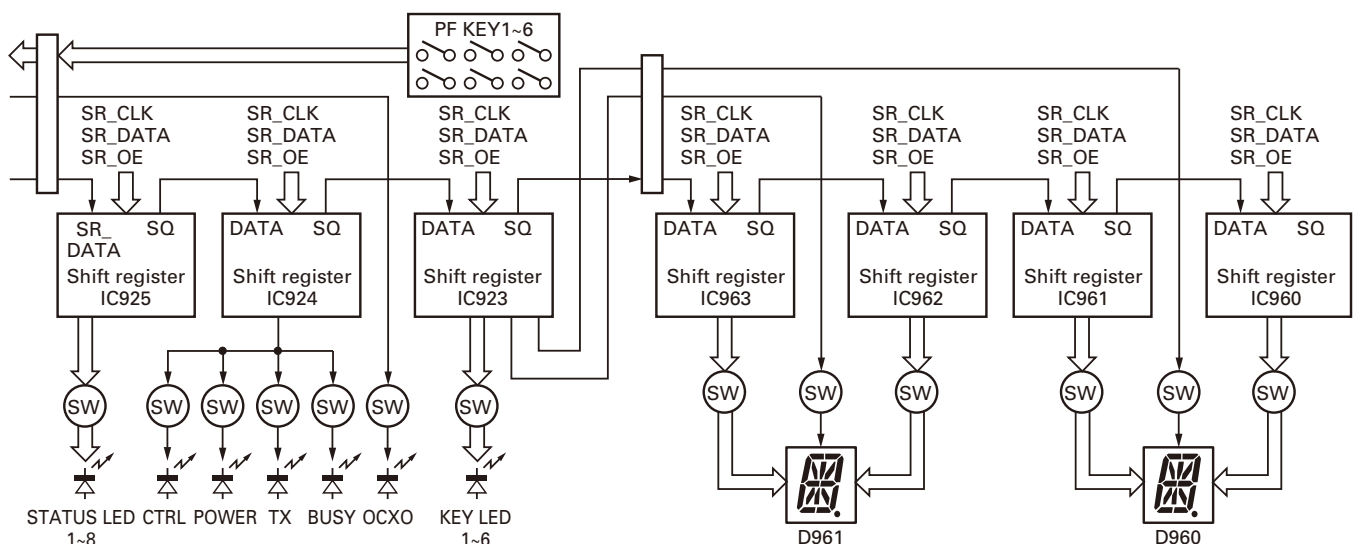


Fig. 27 Shift register circuit (Display part) / 图 27 移位寄存器电路 (显示部分)

NXR-800H

COMPONENTS DESCRIPTION / 元件说明

FINAL UNIT (X45-3862-XX)

Ref. No.	Part Name	Description
IC1	Analogue IC	Current monitor
IC2	Analogue IC	OP AMP
IC3	MOS-IC	Voltage regulator
IC4~6	Analogue IC	OP AMP
IC7	MOS-IC	Temperature sensor
IC8	Analogue IC	OP AMP
IC9	ROM IC	EEPROM
IC10	MOS-IC	Power module
IC11,12	Bi-polar IC	Voltage regulator
IC701	Bi-polar IC	Voltage regulator
IC702	MOS-IC	DC/DC converter
IC703	Bi-polar IC	Voltage regulator
Q2	FET	DC switch
Q4~6,8	FET	DC switch
D4	Surge absorber	Surge protection
D5,6	Diode	Surge protection
D7	Zener diode	Overvoltage protection
D9,10	Diode	Detector
D11,14~16	Diode	RF switch
D19	Zener diode	Overvoltage protection
D902	Varistor	Surge protection

末级单元 (X45-3862-XX)

有关号码	零件名称	说明
IC1	模拟 IC	电流监视器
IC2	模拟 IC	OP AMP
IC3	MOS-IC	稳压器
IC4~6	模拟 IC	OP AMP
IC7	MOS-IC	温度传感器
IC8	模拟 IC	OP AMP
IC9	ROM IC	EEPROM
IC10	MOS-IC	功率模块
IC11, 12	双极 IC	稳压器
IC701	双极 IC	稳压器
IC702	MOS-IC	DC/DC 转换器
IC703	双极 IC	稳压器
Q2	场效应管	直流开关
Q4~6, 8	场效应管	直流开关
D4	电涌吸收	电涌保护
D5, 6	二极管	电涌保护
D7	稳压二极管	过电压保护
D9, 10	二极管	检测器
D11, 14~16	二极管	RF 开关
D19	稳压二极管	过电压保护
D902	变阻器	电涌保护

CONTROL UNIT (X53-4132-71)

Ref. No.	Part Name	Description
IC1	MOS-IC	Shift register
IC2,3	MOS-IC	Multiplexer
IC4	MOS-IC	CODEC
IC5	Bi-polar IC	OP AMP
IC6	MOS-IC	Voltage regulator
IC7	MOS-IC	OP AMP
IC8	MOS-IC	D/A converter
IC9	Bi-polar IC	OP AMP
IC10,11	MOS-IC	DC/DC converter control
IC12	Bi-polar IC	OP AMP
IC14	MOS-IC	Multiplexer
IC15,16	MOS-IC	Voltage regulator
IC17	ROM IC	Flash memory
IC18	MOS-IC	Voltage regulator
IC19~21	Bi-polar IC	OP AMP
IC22	MOS-IC	Shift register
IC23	MOS-IC	NAND gate
IC25	MOS-IC	Analog switch
IC27,28	MOS-IC	Buffer
IC29	MOS-IC	AF PA

控制单元 (X53-4132-71)

有关号码	零件名称	说明
IC1	MOS-IC	移位寄存器
IC2, 3	MOS-IC	多路器
IC4	MOS-IC	CODEC
IC5	双极 IC	OP AMP
IC6	MOS-IC	稳压器
IC7	MOS-IC	OP AMP
IC8	MOS-IC	D/A 转换器
IC9	双极 IC	OP AMP
IC10, 11	MOS-IC	DC/DC 转换器控制
IC12	双极 IC	OP AMP
IC14	MOS-IC	多路器
IC15, 16	MOS-IC	稳压器
IC17	ROM IC	闪存
IC18	MOS-IC	稳压器
IC19~21	双极 IC	OP AMP
IC22	MOS-IC	移位寄存器
IC23	MOS-IC	NAND 栅
IC25	MOS-IC	模拟开关
IC27, 28	MOS-IC	缓冲器
IC29	MOS-IC	AF PA

COMPONENTS DESCRIPTION / 元件说明

Ref. No.	Part Name	Description
IC30	MOS-IC	NAND gate
IC31	MOS-IC	Divider
IC32,33	MOS-IC	Buffer
IC34	Microprocessor IC	MPU
IC35	ROM IC	ROM-IC
IC36	MOS-IC	Buffer
IC37	Microprocessor IC	DSP
IC38	MOS-IC	AND gate
IC39,40	MOS-IC	Buffer
IC41,50	MOS-IC	AND gate
Q1	Transistor	Inverter
Q2,3	FET	DC/DC converter
Q4,5	Transistor	Clock shift switch
Q6,7	Transistor	AF mute switch
Q8	Transistor	Power switch
Q9	FET	Power switch
Q10	Transistor	Clock shift switch
Q11	Transistor	Buffer AMP
Q12	Transistor	Clock shift switch
Q13	Transistor	Buffer AMP
Q14~17	Transistor	DC/DC converter
Q18	FET	Inverter
Q19	FET	Pull up switch
Q20~23	Transistor	Power switch
Q25	Transistor	OP CONT switch
Q26	Transistor	AF mute switch
Q27~29	Transistor	Buffer AMP
D1,2	Diode	DC/DC converter
D3~5	Diode	Surge protector
D6	Zener diode	Surge protector
D7~12	Diode	Surge protector
D13	Zener diode	Surge protector
D14~18,20,23	Diode	Surge protector
D24,25	Varistor	Current protector
D26	Diode	Diode switch
D28	Diode	Surge protector
D29	Zener diode	Surge protector
D30	Diode	Surge protector
D31	Zener diode	Surge protector
D32	Diode	Surge protector
D33	Zener diode	Surge protector
D36,37	Diode	Surge protector
D38,39	Diode	Diode switch

有关号码	零件名称	说明
IC30	MOS-IC	NAND 栅
IC31	MOS-IC	分频器
IC32, 33	MOS-IC	缓冲器
IC34	微处理器 IC	MPU
IC35	ROM IC	ROM-IC
IC36	MOS-IC	缓冲器
IC37	微处理器 IC	DSP
IC38	MOS-IC	AND 栅
IC39, 40	MOS-IC	缓冲器
IC41, 50	MOS-IC	AND 栅
Q1	晶体管	变换器
Q2, 3	场效应管	DC/DC 转换器
Q4, 5	晶体管	时钟位移开关
Q6, 7	晶体管	AF 静音开关
Q8	晶体管	电源开关
Q9	场效应管	电源开关
Q10	晶体管	时钟位移开关
Q11	晶体管	缓冲 AMP
Q12	晶体管	时钟位移开关
Q13	晶体管	缓冲 AMP
Q14 ~ 17	晶体管	DC/DC 转换器
Q18	场效应管	变换器
Q19	场效应管	上拉开关
Q20 ~ 23	晶体管	电源开关
Q25	晶体管	OP CONT 开关
Q26	晶体管	AF 静音开关
Q27 ~ 29	晶体管	缓冲 AMP
D1, 2	二极管	DC/DC 转换器
D3 ~ 5	二极管	电涌保护
D6	稳压二极管	电涌保护
D7 ~ 12	二极管	电涌保护
D13	稳压二极管	电涌保护
D14 ~ 18, 20, 23	二极管	电涌保护
D24, 25	变阻器	电流保护器
D26	二极管	二极管开关
D28	二极管	电涌保护
D29	稳压二极管	电涌保护
D30	二极管	电涌保护
D31	稳压二极管	电涌保护
D32	二极管	电涌保护
D33	稳压二极管	电涌保护
D36, 37	二极管	电涌保护
D38, 39	二极管	二极管开关

NXR-800H

COMPONENTS DESCRIPTION / 元件说明

CONTROL UNIT (X53-4140-10)

Ref. No.	Part Name	Description
IC300,301	MOS-IC	Buffer
IC302	MOS-IC	RS-485 driver/receiver
IC303	MOS-IC	Voltage detector
IC304	MOS-IC	Buffer
IC305~307	MOS-IC	Voltage regulator
IC308	MOS-IC	Voltage detector
IC309	MOS-IC	CODEC
IC312	MOS-IC	A/D converter
IC313	MOS-IC	Inverter
IC314	ROM IC	Flash memory
IC315	MOS-IC	12.288MHz PLL
IC318~321	MOS-IC	Buffer
IC323,324	Microprocessor IC	DSP
IC325	Microprocessor IC	MPU
IC327	MOS-IC	AND gate
IC329	MOS-IC	Voltage regulator
IC330	MOS-IC	Buffer
IC700	SRAM IC	SRAM
IC701	MOS-IC	RTC IC
IC702	ROM IC	Flash memory
IC703	Microprocessor IC	MPU
IC704	DRAM IC	SDRAM
IC705	MOS-IC	RS-232C driver/receiver
IC707	DRAM IC	SDRAM
IC708	MOS-IC	Voltage detector
IC709	MOS-IC	Buffer
IC710,711	MOS-IC	NAND gate
IC712,713	MOS-IC	OR gate
IC714~718	MOS-IC	Octal buffer
IC719	MOS-IC	LAN IC
IC720	ROM IC	EEPROM
IC721	MOS-IC	AND gate
IC722	MOS-IC	OR gate
IC723	MOS-IC	NAND gate
IC724,725	MOS-IC	Buffer
IC726	MOS-IC	AND gate
IC727,728	MOS-IC	Buffer
Q300	Transistor	Reference AMP
Q301	Transistor	DC switch
Q302	Transistor	Power switch
Q303	Transistor	Control switch
Q304,305	Transistor	Reference AMP
Q307,308	Transistor	Clock shift switch
Q309	FET	Switch

控制单元 (X53-4140-10)

有关号码	零件名称	说明
IC300, 301	MOS-IC	缓冲器
IC302	MOS-IC	RS-485 驱动器 / 接收机
IC303	MOS-IC	电压检测器
IC304	MOS-IC	缓冲器
IC305 ~ 307	MOS-IC	稳压器
IC308	MOS-IC	电压检测器
IC309	MOS-IC	CODEC
IC312	MOS-IC	A/D 转换器
IC313	MOS-IC	变换器
IC314	ROM IC	闪存
IC315	MOS-IC	12.288MHz PLL
IC318 ~ 321	MOS-IC	缓冲器
IC323, 324	微处理器 IC	DSP
IC325	微处理器 IC	MPU
IC327	MOS-IC	AND 栅
IC329	MOS-IC	稳压器
IC330	MOS-IC	缓冲器
IC700	SRAM IC	SRAM
IC701	MOS-IC	RTC IC
IC702	ROM IC	闪存
IC703	微处理器 IC	MPU
IC704	DRAM IC	SDRAM
IC705	MOS-IC	RS-232C 驱动器 / 接收机
IC707	DRAM IC	SDRAM
IC708	MOS-IC	电压检测器
IC709	MOS-IC	缓冲器
IC710, 711	MOS-IC	NAND 栅
IC712, 713	MOS-IC	OR 栅
IC714 ~ 718	MOS-IC	八缓冲器
IC719	MOS-IC	LAN IC
IC720	ROM IC	EEPROM
IC721	MOS-IC	AND 栅
IC722	MOS-IC	OR 栅
IC723	MOS-IC	NAND 栅
IC724, 725	MOS-IC	缓冲器
IC726	MOS-IC	AND 栅
IC727, 728	MOS-IC	缓冲器
Q300	晶体管	基准 AMP
Q301	晶体管	直流开关
Q302	晶体管	电源开关
Q303	晶体管	控制开关
Q304, 305	晶体管	基准 AMP
Q307, 308	晶体管	时钟位移开关
Q309	场效应管	开关

COMPONENTS DESCRIPTION / 元件说明

Ref. No.	Part Name	Description
Q700,702 Q704,705	Transistor	Clock shift switch
Q706	Transistor	Control switch
Q707	Transistor	MIC switch
D300	Diode	DC Switch
D701	Diode	Switch
D702	Diode	Voltage protector

有关号码	零件名称	说明
Q700, 702 Q704, 705	晶体管	时钟位移开关
Q706	晶体管	控制开关
Q707	晶体管	MIC 开关
D300	二极管	直流开关
D701	二极管	开关
D702	二极管	电压保护器

RX UNIT (X55-3102-XX)

Ref. No.	Part Name	Description
IC4	MOS-IC	OP AMP
IC5	MOS-IC	Frequency PLL
IC6	MOS-IC	OP AMP
IC7	MOS-IC	DDS
IC8	MOS-IC	Buffer AMP
IC9	Bi-polar IC	1/2 divider
IC10	Bi-polar IC	Voltage regulator
IC11	MOS-IC	Frequency PLL
IC12	MOS-IC	IF system
IC13	Bi-polar IC	IF system
IC14	Analogue IC	OP AMP
IC15,16	Bi-polar IC	Voltage regulator
IC17~19	Analogue IC	Voltage regulator
IC20	Analogue IC	OP AMP
IC22	MOS-IC	Voltage regulator
IC23	Analogue IC	DAC
IC24,25	Bi-polar IC	Voltage regulator
IC26~28	Analogue IC	Voltage regulator
IC29	Bi-polar IC	OP AMP
IC30	MOS-IC	ADC
IC31	ROM IC	EEPROM
IC32	Bi-polar IC	OP AMP
IC33	MOS-IC	OP AMP
IC35	MOS-IC	Temperature sensor
Q1	Transistor	LNA
Q2	Transistor	PLL active filter AMP
Q3	Transistor	RF AMP
Q4	Transistor	PLL active filter AMP
Q5	Transistor	RF AMP
Q6	Transistor	Ripple filter AMP
Q7,8	FET	Oscillator
Q9	Transistor	Ripple filter AMP
Q10,11	Transistor	DC switch
Q12	Transistor	RF AMP
Q13	Transistor	DC switch
Q14,15	FET	DC switch

RX 单元 (X55-3102-XX)

有关号码	零件名称	说明
IC4	MOS-IC	OP AMP
IC5	MOS-IC	频率 PLL
IC6	MOS-IC	OP AMP
IC7	MOS-IC	DDS
IC8	MOS-IC	缓冲 AMP
IC9	双极 IC	1/2 分频器
IC10	双极 IC	稳压器
IC11	MOS-IC	频率 PLL
IC12	MOS-IC	IF 系统
IC13	双极 IC	IF 系统
IC14	模拟 IC	OP AMP
IC15, 16	双极 IC	稳压器
IC17~19	模拟 IC	稳压器
IC20	模拟 IC	OP AMP
IC22	MOS-IC	稳压器
IC23	模拟 IC	DAC
IC24, 25	双极 IC	稳压器
IC26~28	模拟 IC	稳压器
IC29	双极 IC	OP AMP
IC30	MOS-IC	ADC
IC31	ROM IC	EEPROM
IC32	双极 IC	OP AMP
IC33	MOS-IC	OP AMP
IC35	MOS-IC	温度传感器
Q1	晶体管	LNA
Q2	晶体管	PLL 有源滤波器 AMP
Q3	晶体管	RF AMP
Q4	晶体管	PLL 有源滤波器 AMP
Q5	晶体管	RF AMP
Q6	晶体管	纹波滤波器 AMP
Q7, 8	场效应管	振荡器
Q9	晶体管	纹波滤波器 AMP
Q10, 11	晶体管	直流开关
Q12	晶体管	RF AMP
Q13	晶体管	直流开关
Q14, 15	场效应管	直流开关

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COMPONENTS DESCRIPTION / 元件说明

Ref. No.	Part Name	Description
Q16,17	Transistor	RF AMP
Q18~20	FET	RF AMP
Q21~23	Transistor	RF AMP
Q24	FET	Oscillator
Q25,26	FET	DC switch
Q27	Transistor	Ripple filter AMP
Q28,29	FET	RF AMP
Q30	Transistor	RF AMP
Q31,32	FET	DC switch
Q33	Transistor	RF AMP
Q34	Transistor	DC switch
Q35,36	Transistor	RF AMP
Q37	FET	DC switch
Q38~40	Transistor	RF AMP
Q50~52	FET	DC switch
Q53	Transistor	RF AMP
Q56	FET	DC switch
Q57	Transistor	DC switch
Q58~61	FET	DC switch
D1,2	Diode	Surge protection
D3~6	Variable capacitance diode	Frequency control
D9,10	Diode	RF switch
D11,12	Variable capacitance diode	Frequency control
D13~16	Diode	RF switch
D17,18	Diode	Detector
D19,20	Diode	RF switch
D21	LED	PLL indicator

有关号码	零件名称	说明
Q16, 17	晶体管	RF AMP
Q18 ~ 20	场效应管	RF AMP
Q21 ~ 23	晶体管	RF AMP
Q24	场效应管	振荡器
Q25, 26	场效应管	直流开关
Q27	晶体管	纹波滤波器 AMP
Q28, 29	场效应管	RF AMP
Q30	晶体管	RF AMP
Q31, 32	场效应管	直流开关
Q33	晶体管	RF AMP
Q34	晶体管	直流开关
Q35, 36	晶体管	RF AMP
Q37	场效应管	直流开关
Q38 ~ 40	晶体管	RF AMP
Q50 ~ 52	场效应管	直流开关
Q53	晶体管	RF AMP
Q56	场效应管	直流开关
Q57	晶体管	直流开关
Q58 ~ 61	场效应管	直流开关
D1, 2	二极管	电涌保护
D3 ~ 6	可变电容二极管	频率控制
D9, 10	二极管	RF 开关
D11, 12	可变电容二极管	频率控制
D13 ~ 16	二极管	RF 开关
D17, 18	二极管	检测器
D19, 20	二极管	RF 开关
D21	LED	PLL 指示

TX UNIT (X56-312X-XX)

Ref. No.	Part Name	Description
IC101	Analogue IC	RF PLL
IC102	MOS-IC	OP AMP
IC104	Analogue IC	Voltage regulator
IC201	Analogue IC	APC AMP
IC202	MOS-IC	4.5MHz DDS
IC301	Bi-polar IC	OP AMP
IC302	MOS-IC	Buffer AMP
IC303	MOS-IC	PLL
IC304	MOS-IC	Digital potentiometer
IC305	Bi-polar IC	Summing AMP
IC306	MOS-IC	OP AMP
IC307	MOS-IC	Buffer AMP
IC308	Bi-polar IC	OP AMP
IC401	MOS-IC	OP AMP

TX 单元 (X56-312X-XX)

有关号码	零件名称	说明
IC101	模拟 IC	RF PLL
IC102	MOS-IC	OP AMP
IC104	模拟 IC	稳压器
IC201	模拟 IC	APC AMP
IC202	MOS-IC	4.5MHz DDS
IC301	双极 IC	OP AMP
IC302	MOS-IC	缓冲 AMP
IC303	MOS-IC	PLL
IC304	MOS-IC	数字电位计
IC305	双极 IC	加法 AMP
IC306	MOS-IC	OP AMP
IC307	MOS-IC	缓冲 AMP
IC308	双极 IC	OP AMP
IC401	MOS-IC	OP AMP

COMPONENTS DESCRIPTION / 元件说明

Ref. No.	Part Name	Description
IC404	MOS-IC	19.2MHz PLL
IC405,406	MOS-IC	Comparator
IC407	MOS-IC	Buffer AMP
IC408,409	Bi-polar IC	OP AMP
IC601	MOS-IC	5.99MHz DDS
IC602	MOS-IC	Buffer AMP
IC603	MOS-IC	Voltage regulator
IC701	Analogue IC	DAC
IC702	ROM IC	EEPROM
IC703	MOS-IC	Shift register
IC704~706	Analogue IC	Voltage regulator
IC801	Analogue IC	Voltage reference
IC802	MOS-IC	DAC
IC803	MOS-IC	ADC
IC804	MOS-IC	Temperature sensor
IC805,806	MOS-IC	3-state buffer
IC807~809	Analogue IC	Voltage regulator
IC920~922	MOS-IC	3-state buffer
IC923~925	MOS-IC	Shift register
IC926	Bi-polar IC	OP AMP
IC960~963	MOS-IC	Shift register
Q101	FET	DC switch
Q102,103	FET	RF VCO
Q104	Transistor	RF AMP
Q105	Transistor	Ripple filter AMP
Q106	Transistor	RF AMP
Q107~109	Transistor	DC switch
Q110	FET	DC switch
Q201,202	Transistor	RF AMP
Q203	FET	RF driver AMP
Q204~206,210	FET	DC switch
Q211~213	Transistor	RF AMP
Q301,302	FET	DC switch
Q303	Transistor	DC switch
Q304,305,307 Q401,402	Transistor	RF AMP
Q405,407~409	FET	DC switch
Q410	Transistor	DC switch
Q412	Transistor	RF AMP
Q413,414	FET	DC switch
Q415~419	Transistor	RF AMP
Q420	FET	RF AMP
Q421	FET	DC switch
Q422	FET	RF AMP
Q423,424	FET	DC switch
Q425	FET	RF AMP

有关号码	零件名称	说明
IC404	MOS-IC	19.2MHz PLL
IC405, 406	MOS-IC	比较器
IC407	MOS-IC	缓冲 AMP
IC408, 409	双极 IC	OP AMP
IC601	MOS-IC	5.99MHz DDS
IC602	MOS-IC	缓冲器 AMP
IC603	MOS-IC	稳压器
IC701	模拟 IC	DAC
IC702	ROM IC	EEPROM
IC703	MOS-IC	移位寄存器
IC704~706	模拟 IC	稳压器
IC801	模拟 IC	电压基准
IC802	MOS-IC	DAC
IC803	MOS-IC	ADC
IC804	MOS-IC	温度传感器
IC805, 806	MOS-IC	3 态缓冲器
IC807~809	模拟 IC	稳压器
IC920~922	MOS-IC	3 态缓冲器
IC923~925	MOS-IC	移位寄存器
IC926	双极 IC	OP AMP
IC960~963	MOS-IC	移位寄存器
Q101	场效应管	直流开关
Q102, 103	场效应管	RF VCO
Q104	晶体管	RF AMP
Q105	晶体管	纹波滤波器 AMP
Q106	晶体管	RF AMP
Q107~109	晶体管	直流开关
Q110	场效应管	直流开关
Q201, 202	晶体管	RF AMP
Q203	场效应管	RF 驱动 AMP
Q204~206, 210	场效应管	直流开关
Q211~213	晶体管	RF AMP
Q301, 302	场效应管	直流开关
Q303	晶体管	直流开关
Q304, 305, 307 Q401, 402	晶体管	RF AMP
Q405, 407~409	场效应管	直流开关
Q410	晶体管	直流开关
Q412	晶体管	RF AMP
Q413, 414	场效应管	直流开关
Q415~419	晶体管	RF AMP
Q420	场效应管	RF AMP
Q421	场效应管	直流开关
Q422	场效应管	RF AMP
Q423, 424	场效应管	直流开关
Q425	场效应管	RF AMP

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COMPONENTS DESCRIPTION / 元件说明

Ref. No.	Part Name	Description
Q426,428,429	FET	DC switch
Q430,431	FET	RF AMP
Q601,602	FET	DC switch
Q603	Transistor	RF AMP
Q604,605	FET	DC switch
Q606	Transistor	RF AMP
Q607~609 Q701,702	FET	DC switch
Q920~930	Transistor	DC switch
Q931,932	Transistor	Audio level limiter
Q960~976	Transistor	DC switch
D101,102	Variable Capacitance diode	Frequency control
D106	Variable Capacitance diode	Modulation control
D107,108	Variable Capacitance diode	Frequency control
D112	Variable Capacitance diode	Modulation control
D201	Diode	Detector
D202	LED	Output indicator
D301	LED	PLL indicator
D401~403	Diode	Detector
D404~407	Diode	RF switch
D408	Diode	Detector
D409	Surge absorber	Reference signal output
D601,602	Diode	RF switch
D603~606	Zener diode	Limiter
D920	LED	BUSY
D921	LED	TX
D922	LED	POWER
D923	LED	CTRL
D924	LED	OCXO
D925~932	LED	Status 8~Status 1
D933,934	Diode	Audio level limiter
D935,936	Diode	Surge protection
D960,961	LED	17-segment

有关号码	零件名称	说明
Q426, 428, 429	场效应管	直流开关
Q430, 431	场效应管	RF AMP
Q601, 602	场效应管	直流开关
Q603	晶体管	RF AMP
Q604, 605	场效应管	直流开关
Q606	晶体管	RF AMP
Q607~609 Q701, 702	场效应管	直流开关
Q920~930	晶体管	直流开关
Q931, 932	晶体管	音频电平限幅器
Q960~976	晶体管	直流开关
D101, 102	可变电容二极管	频率控制
D106	可变电容二极管	调制控制
D107, 108	可变电容二极管	频率控制
D112	可变电容二极管	调制控制
D201	二极管	检测器
D202	LED	输出指示
D301	LED	PLL 指示
D401~403	二极管	检测器
D404~407	二极管	RF 开关
D408	二极管	检测器
D409	电涌吸收	基准信号输出
D601, 602	二极管	RF 开关
D603~606	稳压二极管	限幅器
D920	LED	BUSY
D921	LED	TX
D922	LED	POWER
D923	LED	CTRL
D924	LED	OCXO
D925~932	LED	状态 8~状态 1
D933, 934	二极管	音频电平限幅器
D935, 936	二极管	电涌保护
D960, 961	LED	17 段

TERMINAL FUNCTION / 端子功能

Final Unit (X45-3862-XX) (A/5)

Pin No.	Name	I/O	Function
CN1 (To X56-312 A/3 CN802)			
1	TX SIGNAL	I	TX driver input signal (Coaxial)
CN2 (To X45-386 C/5 CN29)			
1	SB	I	Power supply input
CN8			
1	-	O	5V supply output for FAN
2	-	-	Ground
CN19			
1	MONITOR	O	Receive signal input (Coaxial)
CN20 (To X56-312 A/3 CN806)			
1	GND	-	Ground
2	GND	-	Ground
3	NC	-	No connection
4	GND	-	Ground
5	PA_CURR	O	Power module current monitor
6	GND	-	Ground
7	FAN_CURR	O	FAN current monitor
8	GND	-	Ground
9	FWD_PWR	O	TX Forward power detection
10	GND	-	Ground
11	RFL_PWR	O	TX Reflect power detection
12	GND	-	Ground
13	PWR_PRT	I	TX power protection
14	GND	-	Ground
15	PWR_CONT	I	TX power control
16	GND	-	Ground
17	FAN_CONT	I	FAN1 control
18	GND	-	Ground
19	FAN_CONT2	I	FAN2 control
20	GND	-	Ground
21	TEMP_RST	I	Reset input for temperature detect IC
22	GND	-	Ground
23	ANT_SW	I	Antenna switch
24	GND	-	Ground
25	TEMP_PRT	O	High temperature detect
26	D_GND	-	Digital ground
27	CONT_5.0V	I	Switched 5V supply
28	D_GND	-	Digital ground
29	SCL	I	Clock input for EEPROM
30	D_GND	-	Digital ground
31	SDA	I/O	Data input/output for EEPROM
32	D_GND	-	Digital ground
33	GND	-	Ground
34	WP	I	Write protection input for EEPROM

末级单元 (X45-3862-XX) (A/5)

管脚号	名称	输入/输出	功能
CN1(至 X56-312 A/3 CN802)			
1	TX SIGNAL	输入	TX 驱动器输入信号 (同轴)
CN2(至 X45-386 C/5 CN29)			
1	SB	输入	电源输入
CN8			
1	-	输出	FAN 的 5V 电源输出
2	-	-	接地
CN19			
1	MONITOR	输出	接收信号输入 (同轴)
CN20(至 X56-312 A/3 CN806)			
1	GND	-	接地
2	GND	-	接地
3	NC	-	未连接
4	GND	-	接地
5	PA_CURR	输出	功率模块电流监视器
6	GND	-	接地
7	FAN_CURR	输出	FAN 电流监视器
8	GND	-	接地
9	FWD_PWR	输出	TX 前向功率检测
10	GND	-	接地
11	RFL_PWR	输出	TX 反射功率检测
12	GND	-	接地
13	PWR_PRT	输入	TX 功率保护
14	GND	-	接地
15	PWR_CONT	输入	TX 功率控制
16	GND	-	接地
17	FAN_CONT	输入	FAN1 控制
18	GND	-	接地
19	FAN_CONT2	输入	FAN2 控制
20	GND	-	接地
21	TEMP_RST	输入	温度检测 IC 的复位输入
22	GND	-	接地
23	ANT_SW	输入	天线开关
24	GND	-	接地
25	TEMP_PRT	输出	高温检测
26	D_GND	-	数字接地
27	CONT_5.0V	输入	开关 5V 电源
28	D_GND	-	数字接地
29	SCL	输入	EEPROM 的时钟输入
30	D_GND	-	数字接地
31	SDA	输入/输出	EEPROM 的数据输入 / 输出
32	D_GND	-	数字接地
33	GND	-	接地
34	WP	输入	EEPROM 的写保护输入

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TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
35	GND	-	Ground
36	GND	-	Ground
CN21 (To X45-386 C/5 CN30)			
1	E	-	Ground

管脚号	名称	输入/输出	功能
35	GND	-	接地
36	GND	-	接地
CN21(至 X45-386 C/5 CN30)			
1	E	-	接地

Final Unit (X45-3862-XX) (C/5)

Pin No.	Name	I/O	Function
CN11 (To X53-413 CN4)			
1	E	-	Ground
2	-	-	No connection
3	SB	O	Power supply output
4	SB	O	Power supply output
CN12 (To X56-312 CN801)			
1	E	-	Ground
2	SB	O	Power supply output
3	SB	O	Power supply output
CN15 (To X55-310 CN44)			
1	E	-	Ground
2	SB	O	Power supply output
3	SB	O	Power supply output

末级单元 (X45-3862-XX) (C/5)

管脚号	名称	输入/输出	功能
CN11(至 X53-413 CN4)			
1	E	-	接地
2	-	-	未连接
3	SB	输出	电源输出
4	SB	输出	电源输出
CN12(至 X56-312 CN801)			
1	E	-	接地
2	SB	输出	电源输出
3	SB	输出	电源输出
CN15(至 X55-310 CN44)			
1	E	-	接地
2	SB	输出	电源输出
3	SB	输出	电源输出

Final Unit (X45-3862-XX) (D/5)

Pin No.	Name	I/O	Function
CN701 (To X55-310 CN6/CN36)			
1	-	I	9V supply input
2	-	-	Ground
3	-	O	-3V supply output
4	-	-	Ground

末级单元 (X45-3862-XX) (D/5)

管脚号	名称	输入/输出	功能
CN701(至 X55-310 CN6/CN36)			
1	-	输入	9V 电源输入
2	-	-	接地
3	-	输出	-3V 电源输出
4	-	-	接地

Final Unit (X45-3862-XX) (E/5)

Pin No.	Name	I/O	Function
CN905 (To X56-312 B/3 CN923)			
1	VOLUME_IN	O	Volume control output for AF signal
2	33MPU	I	3.3V constant voltage
3	GND	-	Ground
4	33AUD	I	3.3V constant voltage
5	SB	I	Power supply input
6	SCM_EN	-	No connection
7	GND	-	Ground
8	PTT_TXD_SCM	O	PTT output
9	HOOK_RXD_SCM	O	Hook detection output
10	MIG	-	MIC ground
11	MIC	O	MIC signal output

末级单元 (X45-3862-XX) (E/5)

管脚号	名称	输入/输出	功能
CN905(至 X56-312 B/3 CN923)			
1	VOLUME_IN	输出	AF 信号的音量控制输出
2	33MPU	输入	3.3V 恒定电压
3	GND	-	接地
4	33AUD	输入	3.3V 恒定电压
5	SB	输入	电源输入
6	SCM_EN	-	未连接
7	GND	-	接地
8	PTT_TXD_SCM	输出	PTT 输出
9	HOOK_RXD_SCM	输出	挂钩检测输出
10	MIG	-	MIC 接地
11	MIC	输出	MIC 信号输出

TERMINAL FUNCTION / 端子功能

Control Unit (X53-4132-71)

Pin No.	Name	I/O	Function
CN1 (To X53-414 CN401)			
1	PTT_TXD_SCM	-	No connection
2	GND	-	Ground
3	LO_VOL_DET	O	Low voltage detection signal
4	NC	-	No connection
5	TD_SW	I	TD terminal input signal mute switch
6	MICAD_SW	I	Microphone input signal switch, changed to analog modulation or NXDN modulation
7	MIC_SW	I	Microphone mute switch
8	RXAD_SW	I	Speaker signal switch, changed to analog reception signal or NXDN reception signal
9	PATH_SW	I	Analog or NXDN modulation route selector switch
10	BEEP_SW	I	Beep sound mute switch
11	TA_SW	I	TA input mute switch
12	TAAD_SW	I	TA input signal, changed to analog modulation or NXDN modulation
13	EVOL_LD	I	Load for electronic volume
14	GND	-	Ground
15	EVOL_CLK	I	Clock for electronic volume
16	PTT_AM16C	O	PTT signal
17	EVOL_DATA	I	Data for electronic volume
18	INSP_SW	-	No connection
19	AF_MUTE	I	Speaker output mute switch
20	SCM_EN	-	No connection
21	AMP_SW	I	Speaker amplifier power ON/OFF switch
22	HOOK_RXD_SCM	-	No connection
23	NC	-	No connection
24	INRA_SW	-	No connection
25	MIC_D_IN	O	NXDN transmission signal output
26	BEEP	I	Beep sound signal input
27	RX_AUDIO_D	I	NXDN reception signal input
28	GND	-	Ground
29	MOD_D_OUT	I	NXDN modulation signal input
30	PWR_ST_R	I	Switch for red LED (Power source)
31	VOLUME_IN	O	Volume control input for AF signal
32	OCXO_ST_G	I	Switch for green LED (OCXO)
33	OCXO_ST_R	I	Switch for red LED (OCXO)
34	RX_POWER_SAVE	I	RX unit power saving signal
35	GND	-	Ground
36	GND	-	Ground
CN2 (To X53-414 CN402)			
1	SYS_RST	I	System reset signal from modem control MPU

控制单元 (X53-4132-71)

管脚号	名称	输入/输出	功能
CN1(至 X53-414 CN401)			
1	PTT_TXD_SCM	-	未连接
2	GND	-	接地
3	LO_VOL_DET	输出	低电压检测信号
4	NC	-	未连接
5	TD_SW	输入	TD 端子输入信号静音开关
6	MICAD_SW	输入	麦克风输入信号开关, 改为模拟调制或 NXDN 调制
7	MIC_SW	输入	麦克风静音开关
8	RXAD_SW	输入	扬声器信号开关, 改为模拟接收信号或 NXDN 接收信号
9	PATH_SW	输入	模拟或 NXDN 调制路径选择开关
10	BEEP_SW	输入	提示音静音开关
11	TA_SW	输入	TA 输入静音开关
12	TAAD_SW	输入	TA 输入信号, 改为模拟调制或 NXDN 调制
13	EVOL_LD	输入	电子音量的负载
14	GND	-	接地
15	EVOL_CLK	输入	电子音量的时钟
16	PTT_AM16C	输出	PTT 信号
17	EVOL_DATA	输入	电子音量的数据
18	INSP_SW	-	未连接
19	AF_MUTE	输入	扬声器输出静音开关
20	SCM_EN	-	未连接
21	AMP_SW	输入	扬声器放大器电源 ON/OFF 开关
22	HOOK_RXD_SCM	-	未连接
23	NC	-	未连接
24	INRA_SW	-	未连接
25	MIC_D_IN	输出	NXDN 发射信号输出
26	BEEP	输入	提示音信号输入
27	RX_AUDIO_D	输入	NXDN 接收信号输入
28	GND	-	接地
29	MOD_D_OUT	输入	NXDN 调制信号输入
30	PWR_ST_R	输入	红色 LED(电源) 的开关
31	VOLUME_IN	输出	AF 信号的音量控制输入
32	OCXO_ST_G	输入	绿色 LED(OCXO) 的开关
33	OCXO_ST_R	输入	红色 LED(OCXO) 的开关
34	RX_POWER_SAVE	输入	RX 单元节电信号
35	GND	-	接地
36	GND	-	接地
CN2(至 X53-414 CN402)			
1	SYS_RST	输入	调制解调器控制 MPU 的系统复位信号

TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
2	GND	-	Ground
3	BER_CLK	I	Serial clock for measurement bit error rate
4	BER_DAT	I	Serial data for measurement bit error rate
5	A16C_CK_SFT	I	"Frequency shift" signal to RF control MPU
6	TRUNKING	O	"Trunking mode" signal to Main MPU
7	ADSP_CK_SFT	I	"Frequency shift" signal to Analog mode DSP
8	GND	-	Ground
9	RADIO_ERR	O	"Detect accident of RF block" signal to Main MPU
10	QT_DQT	O	"Detect QT or DQT" signal to Main MPU
11	TX_STATE	O	"During the transmission" signal to Main MPU
12	RF_PTT	O	"Press-to-talk-switch" signal to Main MPU
13	GND	-	Ground
14	STXO_ARXO	I	UART signal from Main MPU to RF control MPU
15	SRXO_ATXO	O	UART signal from RF control MPU to Main MPU
16	GND	-	Ground
17	SC_SH	O	"Squelch control" signal to Main MPU
18	E_PTT_SH	O	"External press-to-talk-switch" signal to Main MPU
19	NC	-	No connection
20	50MPU_CONT	I	5V regulator control
21	33SH	I	3.3V constant voltage
22	33MPU_A	O	3.3V constant voltage
23	50MPU_A	O	5V constant voltage
24	33MPU_A_GND	-	Ground
25	33MPU	O	3.3V constant voltage
26	33MPU	O	3.3V constant voltage
27	33MPU_A_GND	-	Ground
28	DC50	O	5V constant voltage
29	DC50	O	5V constant voltage
30	DC50	O	5V constant voltage
31	DC50	O	5V constant voltage
32	50MPU_A_GND	-	Ground
33	50MPU	O	5V constant voltage
34	50MPU_A_GND	-	Ground
35	GND	-	Ground
36	HI_VOL_DET	O	Voltage monitor
CN3 (To X56-312 B/3 CN921)			
1	DC8	O	8V constant voltage
2	GND	-	Ground
3	DC8	O	8V constant voltage
4	DC8	O	8V constant voltage
5	50MPU	O	5V constant voltage

管脚号	名称	输入/输出	功能
2	GND	-	接地
3	BER_CLK	输入	测量比特误码率的串行时钟
4	BER_DAT	输入	测量比特误码率的串行数据
5	A16C_CK_SFT	输入	至 RF 控制 MPU 的“频率偏移”信号
6	TRUNKING	输出	至主 MPU 的“集群模式”信号
7	ADSP_CK_SFT	输入	至模拟模式 DSP 的“频率比偏移”信号
8	GND	-	接地
9	RADIO_ERR	输出	至主 MPU 的“RF 块的检测事件”信号
10	QT_DQT	输出	至主 MPU 的“检测 QT 或 DQT”信号
11	TX_STATE	输出	至主 MPU 的“发射过程中”信号
12	RF_PTT	输出	至主 MPU 的“按讲开关”信号
13	GND	-	接地
14	STXO_ARXO	输入	从主 MPU 到 RF 控制 MPU 的 UART 信号
15	SRXO_ATXO	输出	从 RF 控制 MPU 到主 MPU 的 UART 信号
16	GND	-	接地
17	SC_SH	输出	至主 MPU 的“静音控制”信号
18	E_PTT_SH	输出	至主 MPU 的“外部按讲开关”信号
19	NC	-	未连接
20	50MPU_CONT	输入	5V 调整器控制
21	33SH	输入	3.3V 恒定电压
22	33MPU_A	输出	3.3V 恒定电压
23	50MPU_A	输出	5V 恒定电压
24	33MPU_A_GND	-	接地
25	33MPU	输出	3.3V 恒定电压
26	33MPU	输出	3.3V 恒定电压
27	33MPU_A_GND	-	接地
28	DC50	输出	5V 恒定电压
29	DC50	输出	5V 恒定电压
30	DC50	输出	5V 恒定电压
31	DC50	输出	5V 恒定电压
32	50MPU_A_GND	-	接地
33	50MPU	输出	5V 恒定电压
34	50MPU_A_GND	-	接地
35	GND	-	接地
36	HI_VOL_DET	输出	电压监视器
CN3 (至 X56-312 B/3 CN921)			
1	DC8	输出	8V 恒定电压
2	GND	-	接地
3	DC8	输出	8V 恒定电压
4	DC8	输出	8V 恒定电压
5	50MPU	输出	5V 恒定电压

TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
6	50MPU	O	5V constant voltage
7	GND	-	Ground
8	DC8	O	8V constant voltage
9	K5	O	Key Scan
10	K4	O	Key Scan
11	K3	I	Key Scan
12	K2	I	Key Scan
13	K1	I	Key Scan
14	GND	-	Ground
15	STB1	O	Shift Register Strobe
16	GND	-	Ground
17	SR_DATA	O	Shift Register Data
18	GND	-	Ground
19	SR_CLK	O	Shift Register Clock
20	GND	-	Ground
21	SR_OE	O	Shift Register Output Enable
22	GND	-	Ground
23	PTT_TXD_SCM	I	MIC PTT
24	SCM_EN	-	No connection
25	HOOK_RXD_SCM	I	HOOK detect input
26	GND	-	Ground
27	OCXO_ST_G	O	OCXO Green LED Switch
28	PWR_ST_R	O	POWER Red LED Switch
29	OCXO_ST_R	O	OCXO Red LED Switch
30	SB	O	Power supply output
31	VOLUME_IN	I	Volume control input for AF signal
32	33AUD	O	3.3V constant voltage
33	33MPU	O	3.3V constant voltage
34	MIC	I	MIC Signal input
35	GND	-	Ground
36	MIG	-	MIC Ground
CN4 (To X45-386 C/5 CN11)			
1	E	-	Ground
2	NC	-	No connection
3	SB	I	Power supply input
4	SB	I	Power supply input
CN56 (To X56-312 A/3 CN804)			
1	GND	-	Ground
2	GND	-	Ground
3	PAG	O	POCSAG Switch
4	GND	-	Ground
5	CONT_5.0V	O	5V constant voltage
6	D_GND	-	Ground
7	CONT_5.0V	O	5V constant voltage
8	D_GND	-	Ground

管脚号	名称	输入/输出	功能
6	50MPU	输出	5V 恒定电压
7	GND	-	接地
8	DC8	输出	8V 恒定电压
9	K5	输出	按键扫描
10	K4	输出	按键扫描
11	K3	输入	按键扫描
12	K2	输入	按键扫描
13	K1	输入	按键扫描
14	GND	-	接地
15	STB1	输出	移位寄存器选通脉冲
16	GND	-	接地
17	SR_DATA	输出	位移寄存器数据
18	GND	-	接地
19	SR_CLK	输出	位移寄存器时钟
20	GND	-	接地
21	SR_OE	输出	移位寄存器输出启用
22	GND	-	接地
23	PTT_TXD_SCM	输入	MIC PTT
24	SCM_EN	-	未连接
25	HOOK_RXD_SCM	输入	HOOK 检测输入
26	GND	-	接地
27	OCXO_ST_G	输出	OCXO 绿色 LED 开关
28	PWR_ST_R	输出	POWER 红色 LED 开关
29	OCXO_ST_R	输出	OCXO 红色 LED 开关
30	SB	输出	电源输出
31	VOLUME_IN	输入	AF 信号的音量控制输入
32	33AUD	输出	3.3V 恒定电压
33	33MPU	输出	3.3V 恒定电压
34	MIC	输入	MIC 信号输入
35	GND	-	接地
36	MIG	-	MIC 接地
CN4(至 X45-386 C/5 CN11)			
1	E	-	接地
2	NC	-	未连接
3	SB	输入	电源输入
4	SB	输入	电源输入
CN56(至 X56-312 A/3 CN804)			
1	GND	-	接地
2	GND	-	接地
3	PAG	输出	POCSAG 开关
4	GND	-	接地
5	CONT_5.0V	输出	5V 恒定电压
6	D_GND	-	接地
7	CONT_5.0V	输出	5V 恒定电压
8	D_GND	-	接地

TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
9	SDA	I/O	EEPROM Data
10	D_GND	-	Ground
11	SCK	O	EEPROM Clock
12	TEMP_PRT	I	Temperature Sensor Protection Signal
13	ANT_SW	O	Transmission antenna switch
14	DDS_EN	O	Enable for DDS
15	VR_EN	O	Enable for electronic volume
16	440_EN	O	Enable for PLL
17	132_EN	O	Enable for PLL
18	440_CE	O	PLL chip select
19	132_CE	O	PLL chip select
20	LDT	I	PLL lock detection
21	2DA_EN	O	Enable for 2ch DAC
22	3DA_EN	O	Enable for 3ch DAC
23	2DA_CE	O	Chip select for 2ch DAC
24	SR_OE	O	Shift Register Output Enable
25	8AD_EN	O	Enable for 8ch DC
26	SR_EN	O	Shift Register Strobe
27	SDI1	I	Analog data of 8ch ADC
28	SDO0	O	Data for 3 line serial
29	SCLK1	O	Clock 1 for 3 line serial
30	SCLK0	O	Clock for 3 line serial
31	SDO1	O	Data 1 for 3 line serial
32	GND	-	Ground
33	MOD	O	Modulating signal
34	WP	O	Write protection of EEPROM
35	GND	-	Ground
36	GND	-	Ground
CN57 (To X55-310 CN42)			
1	GND	-	Ground
2	GND	-	Ground
3	WP	O	Write protection of EEPROM
4	D_GND	-	Digital Ground
5	E2PROM_SDA	I/O	Data of EEPROM
6	CONT_5.0V	-	5V constant voltage
7	E2PROM_SCL	O	Clock of EEPROM
8	D_GND	-	Digital Ground
9	AD_CS	O	Enable for 8ch DAC
10	IF_BW_SW	O	IF_bandwidth switch
11	AD_DAT_WRITE	O	Data 0 for 3 line serial
12	NC (IF_NW_SW)	-	No connection
13	AD_CLK	O	Clock 0 for 3 line serial
14	GND	-	Ground
15	AD_DAT_READ	I	Analog data of 8ch ADC
16	NC	-	No connection

管脚号	名称	输入/输出	功能
9	SDA	输入/输出	EEPROM 数据
10	D_GND	-	接地
11	SCK	输出	EEPROM 时钟
12	TEMP_PRT	输入	温度传感器保护信号
13	ANT_SW	输出	发射天线开关
14	DDS_EN	输出	DDS 启用
15	VR_EN	输出	电子音量启用
16	440_EN	输出	PLL 启用
17	132_EN	输出	PLL 启用
18	440_CE	输出	PLL 芯片选择
19	132_CE	输出	PLL 芯片选择
20	LDT	输入	PLL 锁定检测
21	2DA_EN	输出	2ch DAC 启用
22	3DA_EN	输出	3ch DAC 启用
23	2DA_CE	输出	2ch DAC 的芯片选择
24	SR_OE	输出	移位寄存器输出启用
25	8AD_EN	输出	8ch DC 启用
26	SR_EN	输出	移位寄存器选通脉冲
27	SDI1	输入	8ch ADC 的模拟数据
28	SDO0	输出	3 线路串行的数据
29	SCLK1	输出	3 线路串行的时钟 1
30	SCLK0	输出	3 线路串行的时钟
31	SDO1	输出	3 线路串行的数据 1
32	GND	-	接地
33	MOD	输出	调制信号
34	WP	输出	EEPROM 的写保护
35	GND	-	接地
36	GND	-	接地
CN57(至 X55-310 CN42)			
1	GND	-	接地
2	GND	-	接地
3	WP	输出	EEPROM 的写保护
4	D_GND	-	数字接地
5	E2PROM_SDA	输入/输出	EEPROM 的数据
6	CONT_5.0V	-	5V 恒定电压
7	E2PROM_SCL	输出	EEPROM 的时钟
8	D_GND	-	数字接地
9	AD_CS	输出	8ch DAC 启用
10	IF_BW_SW	输出	IF_带宽开关
11	AD_DAT_WRITE	输出	3 线路串行的数据 0
12	NC (IF_NW_SW)	-	未连接
13	AD_CLK	输出	3 线路串行的时钟 0
14	GND	-	接地
15	AD_DAT_READ	输入	8ch ADC 的模拟数据
16	NC	-	未连接

TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
17	CONT_5.0V	-	5V constant voltage
18	PLL_LOCK_DET	I	PLL1,2 lock detection
19	AGC_RSSI	-	No connection
20	PLL2_EN	O	PLL 2 enabling signal
21	FM_RSSI	I	RSSI signal input
22	NC	-	No connection
23	GND	-	Ground
24	PLL_PWR_SAVE	O	PLL1,2 chip selection signal
25	RX_AUDIO	I	Reception audio signal
26	SIF_DAT	O	Data 0 for 3 line serial
27	GND	-	Ground
28	SIF_CLK	O	Clock 0 for 3 line serial
29	3DA_EN	O	Enable for 3ch DAC
30	PLL1_EN	O	PLL 1 enabling signal
31	VCO_BAND_SW	O	VCO bandwidth switch
32	DDS_EN	O	Enable for DDS
33	RX_POWER_SAVE	O	Power saving signal of RX unit
34	NC	-	No connection
35	GND	-	Ground
36	GND	-	Ground
CN58 (To CONTROL I/O 25pin D-sub Connector)			
1	NC	-	No connection
2	NC	-	No connection
3	NC	-	No connection
4	NC (RSSI)	-	No connection (RSSI)
5	BER_CLK	O	for Bit Error Rate Clock
6	NC	-	No connection
7	EMON	I	External monitor switch input "L"=Monitor on, "H"=Monitor off
8	NC	-	No connection
9	EPTT	I	External press-to-talk switch input "L"=PTT on, "H"=PTT off
10	AI1	I	Programmable function input 1
11	SC	O	Squelch control output "L"=Busy, "H"=Not busy
12	AI2	I	Programmable function input 2
13	BER_DAT	O	for Bit Error Rate Data
14	AI3	I	Programmable function input 3
15	TXG	-	TX signal ground for TA,TD
16	DG	-	Control line ground
17	IO1	I/O	Programmable function input/output 1
18	TD	I	TX-DATA input (data or Signaling) Input impedance=600Ω Coupling=AC coupling Deviation=0.75kHz (Wide)/ 0.75kHz (Narrow) at 100Hz 0.5Vpp input
19	IO2		Programmable function input/output 2

管脚号	名称	输入/输出	功能
17	CONT_5.0V	-	5V 恒定电压
18	PLL_LOCK_DET	输入	PLL1、2 时钟检测
19	AGC_RSSI	-	未连接
20	PLL2_EN	输出	PLL 2 启用信号
21	FM_RSSI	输入	RSSI 信号输入
22	NC	-	未连接
23	GND	-	接地
24	PLL_PWR_SAVE	输出	PLL1、2 芯片选择信号
25	RX_AUDIO	输入	接收音频信号
26	SIF_DAT	输出	3 线路串行的数据 0
27	GND	-	接地
28	SIF_CLK	输出	3 线路串行的时钟 0
29	3DA_EN	输出	3ch DAC 启用
30	PLL1_EN	输出	PLL 1 启用信号
31	VCO_BAND_SW	输出	VCO 带宽开关
32	DDS_EN	输出	DDS 启用
33	RX_POWER_SAVE	输出	RX 单元的节电信号
34	NC	-	未连接
35	GND	-	接地
36	GND	-	接地
CN58 (至 CONTROL I/O 25 针脚 D-sub 连接器)			
1	NC	-	未连接
2	NC	-	未连接
3	NC	-	未连接
4	NC (RSSI)	-	未连接 (RSSI)
5	BER_CLK	输出	用于比特误码率时钟
6	NC	-	未连接
7	EMON	输入	外部监听器开关输入 "L" = 监听器开, "H" = 监听器关
8	NC	-	未连接
9	EPTT	输入	外部按讲开关输入 "L" =PTT 开, "H" =PTT 关
10	AI1	输入	可编程功能输入 1
11	SC	输出	静噪控制输出 "L" = 繁忙, "H" = 不繁忙
12	AI2	输入	可编程功能输入 2
13	BER_DAT	输出	用于比特误码率数据
14	AI3	输入	可编程功能输入 3
15	TXG	-	TA、TD 的 TX 信号接地
16	DG	-	控制线路接地
17	IO1	输入/输出	可编程功能输入 / 输出 1
18	TD	输入	TX-DATA 输入 (数据或指令) 输入阻抗 =600 Ω 耦合 =AC 耦合 频偏 =0.75kHz (宽)/0.75kHz (窄), 100Hz 0.5Vpp 输入
19	IO2		可编程功能输入 / 输出 2

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TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
20	TA	I	TX audio input (voice) Input impedance=600Ω Coupling=AC coupling Frequency response=Pre-emphasis curve Deviation=60% deviation at 1kHz 280mVrms±25mV input
21	IO3	I/O	Programmable function input/output 3
22	RD	O	RX-DATA output (data or Signaling) output impedance=1kΩ or less Coupling=AC coupling Non-squelched Frequency response=±2.5dB at 10~3000Hz Output level=70~90mVrms (standard modulation)
23	IO4		Programmable function input/output 4
24	RA	O	RX-Audio output (voice) output impedance=1kΩ or less Coupling=AC coupling Squelched Frequency response=De-emphasis curve Output level=360~440mVrms (standard modulation)
25	IO5	I/O	Programmable function input/output 5
26	RXG	-	RX signal ground for RA, RD
27	IO6	I/O	Programmable function input/output 6
28	SPM	I	Speaker mute signal input. "L"=Mute on
29	NC	-	No connection
30	NC	-	No connection
CN59 (To TEST/SPKR 15pin Connector)			
1	AO5	O	Auxiliary output 5
2	AO4	O	Auxiliary output 4
3	AO3	O	Auxiliary output 3
4	SPO	O	Speaker AF output
5	AO2	O	Auxiliary output 2
6	SPO	O	Speaker AF output
7	AO1	O	Auxiliary output 1
8	SPI	I	Internal speaker AF input
9	RSSI	O	RSSI output (Analog signal output)
10	RD	O	RX-DATA output (Equal to D-sub connector terminal No22)
11	GND	-	Ground
12	SPG	-	Speaker ground
13	GND	-	Ground
14	SPG	-	Speaker ground
15	NC	-	No connection
16	NC	-	No connection
17	SB	O	Power supply output
18	NC	-	No connection

管脚号	名称	输入/输出	功能
20	TA	输入	TX 音频输入 (语音) 输入阻抗 =600Ω 耦合 =AC 耦合 频率响应 = 预加重曲线 1kHz 的频偏 =60% 频偏 280mVrms±25mV 输入
21	IO3	输入/输出	可编程功能输入 / 输出 3
22	RD	输出	RX-DATA 输出 (数据或信令) 输出阻抗 =1kΩ 或以下 耦合 =AC 耦合 非静噪 10~3000Hz 的频率响应 =±2.5dB 输出电平 =70~90mVrms (标准调制)
23	IO4		可编程功能输入 / 输出 4
24	RA	输出	RX- 音频输出 (语音) 输出阻抗 =1kΩ 或以下 耦合 =AC 耦合 静噪 频率响应 = 去加重曲线 输出电平 =360~440mVrms (标准调制)
25	IO5	输入/输出	可编程功能输入 / 输出 5
26	RXG	-	RA、RD 的 RX 信号接地
27	IO6	输入/输出	可编程功能输入 / 输出 6
28	SPM	输入	扬声器静音信号输入 "L" = 静音开
29	NC	-	未连接
30	NC	-	未连接
CN59(至 TEST/SPKR 15 针脚连接器)			
1	A05	输出	辅助输出 5
2	A04	输出	辅助输出 4
3	A03	输出	辅助输出 3
4	SPO	输出	扬声器 AF 输出
5	A02	输出	辅助输出 2
6	SPO	输出	扬声器 AF 输出
7	A01	输出	辅助输出 1
8	SPI	输入	内部扬声器 AF 输入
9	RSSI	输出	RSSI 输出 (模拟信号输出)
10	RD	输出	RX-DATA 输出 (等于 D-sub 连接器第 22 端子)
11	GND	-	接地
12	SPG	-	扬声器接地
13	GND	-	接地
14	SPG	-	扬声器接地
15	NC	-	未连接
16	NC	-	未连接
17	SB	输出	电源输出
18	NC	-	未连接

TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
19	SB	O	Power supply output
20	NC	-	No connection
CN60 (To Internal Speaker)			
1	SPO	O	Internal speaker AF output
2	SPG	-	Internal speaker ground

管脚号	名称	输入/输出	功能
19	SB	输出	电源输出
20	NC	-	未连接
CN60(至内部扬声器)			
1	SPO	输出	内部扬声器 AF 输出
2	SPG	-	内部扬声器接地

Control Unit (X53-4140-10)

Serial data enable signal to potentiometer of OCXO unit

Pin No.	Name	I/O	Function
CN300 (To X55-310 CN43)			
	RX_IF_VN	I	2nd IF signal (450kHz) of NXDN mode
CN302 (To X56-312 A/3 CN405)			
	REF2 (19.2MHz)	I	19.2MHz reference clock input from TX unit
CN400 (To X56-312 A/3 CN805)			
1	GND	-	Ground
2	GND	-	Ground
3	REF_SW2	O	Control signal for reference clock change circuit
4	WP	O	Write protection signal to EEPROM
5	REF_SW	O	Control signal for reference clock change circuit
6	OX_SCL	O	ADC of OCXO unit (for electric current detection) to serial clock
7	EXT_EXIST	I	External reference clock detection signal
8	OX_SDA	I/O	ADC of OCXO unit (for electric current detection) to serial data input/output
9	REF_EXIST	I	Reference clock detection signal
10	IMP_H_L	-	No connection
11	REF_IN_OUT	O	Control signal for reference clock change circuit
12	GND	-	Ground
13	OX_SDI2	I	Serial data input from potentiometer of OCXO unit
14	GND	-	Ground
15	OCXO_VR_EN	O	Serial data enable signal to potentiometer of OCXO unit
16	GND	-	Ground
17	OCXO_ON	O	Power source control of OCXO unit
18	GND	-	Ground
19	OCXO_CURR	I	Monitor of the voltage which detects current of OCXO unit
20	GND	-	Ground
21	OCXO_EXIST	I	Detection signal of OCXO unit presence
22	GND	-	Ground
23	VCXO_DA_EN	O	DDS (5.99MHz) to serial data enabling signal
24	GND	-	Ground

控制单元 (X53-4140-10)

至 OCXO 单元电位计的串行数据启用信号

管脚号	名称	输入/输出	功能
CN300(至 X55-310 CN43)			
	RX_IF_VN	输入	NXDN 模式的第 2 IF 信号 (450kHz)
CN302(至 X56-312 A/3 CN405)			
	REF2 (19.2MHz)	输入	从 TX 单元的 19.2MHz 基准时钟输入
CN400(至 X56-312 A/3 CN805)			
1	GND	-	接地
2	GND	-	接地
3	REF_SW2	输出	基准时钟改变电路的控制信号
4	WP	输出	至 EEPROM 的写保护信号
5	REF_SW	输出	基准时钟改变电路的控制信号
6	OX_SCL	输出	至串行时钟的 OCXO 单元的 ADC (用于电流检测)
7	EXT_EXIST	输入	外部基准时钟检测信号
8	OX_SDA	输入/输出	至串行数据输入 / 输出的 OCXO 单元的 ADC (用于电流检测)
9	REF_EXIST	输入	基准时钟检测信号
10	IMP_H_L	-	未连接
11	REF_IN_OUT	输出	基准时钟改变电路的控制信号
12	GND	-	接地
13	OX_SDI2	输入	从 OCXO 单元电位计输入的串行数据
14	GND	-	接地
15	OCXO_VR_EN	输出	至 OCXO 单元电位计的串行数据启用信号
16	GND	-	接地
17	OCXO_ON	输出	OCXO 单元的电源控制
18	GND	-	接地
19	OCXO_CURR	输入	检测 OCXO 单元电流的电压的监视器
20	GND	-	接地
21	OCXO_EXIST	输入	OCXO 单元存在检测信号
22	GND	-	接地
23	VCXO_DA_EN	输出	至串行数据启用信号的 DDS (5.99MHz)
24	GND	-	接地

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TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
25	REF_LDT	I	Lock detection signal from PLL (19.2MHz)
26	GND	-	Ground
27	PLL_19_EN	O	Serial data enabling signal to PLL (19.2MHz)
28	GND	-	Ground
29	PLL_19_CE	-	No connection
30	GND	-	Ground
31	OX_SDO2	O	DAC of OCXO unit to serial data output
32	GND	-	Ground
33	OX_SCLK2	O	DAC of OCXO unit to serial clock output
34	33MPU	O	3.3V constant voltage
35	GND	-	Ground
36	GND	-	Ground
CN401 (To X53-413 CN1)			
1	GND	-	Ground
2	GND	-	Ground
3	RX_POWER_SAVE	O	Power saving signal of RX unit
4	OCXO_ST_R	O	OCXO LED red control
5	OCXO_ST_G	O	OCXO LED green control
6	VOLUME_IN	I	Voltage monitor for audio level control
7	PWR_ST_R	O	POWER LED red control
8	MOD_D_OUT	O	Transmission modulating signal of NXDN mode
9	GND	-	Ground
10	RX_AUDIO_D	O	Reception demodulating signal of NXDN mode
11	BEEP	O	Beep sound signal output
12	MIC_D_IN	I	Audio signal before the transmission compressing of the NXDN mode
13	INRA_SW	-	No connection
14	NC	-	No connection
15	HOOK_RXD_SCM	I	Hook detection input
16	AMP_SW	O	Power source control of audio power amplifier
17	SCM_EN	-	No connection
18	AF_MUTE	O	Audio mute control
19	INSP_SW	-	No connection
20	EVOL_DATA	O	Serial data to DAC (for audio level adjustment)
21	PTT_AM16C	I	"Press-to-talk-switch" signal to Main MPU
22	EVOL_CLK	O	Serial clock to DAC (for audio level adjustment)
23	GND	-	Ground
24	EVOL_LD	O	Serial load to DAC (for audio level adjustment)
25	TAAD_SW	O	Route formation signal of audio circuit
26	TA_SW	O	Route formation signal of audio circuit
27	BEEP_SW	O	Route formation signal of audio circuit

管脚号	名称	输入/输出	功能
25	REF_LDT	输入	来自 PLL (19.2MHz) 的锁定检测信号
26	GND	-	接地
27	PLL_19_EN	输出	至 PLL (19.2MHz) 的串行数据启用信号
28	GND	-	接地
29	PLL_19_CE	-	未连接
30	GND	-	接地
31	OX_SDO2	输出	至串行数据输出的 OCXO 单元的 DAC
32	GND	-	接地
33	OX_SCLK2	输出	至串行时钟输出的 OCXO 单元的 DAC
34	33MPU	输出	3.3V 恒定电压
35	GND	-	接地
36	GND	-	接地
CN401 (至 X53-413 CN1)			
1	GND	-	接地
2	GND	-	接地
3	RX_POWER_SAVE	输出	RX 单元的节电信号
4	OCXO_ST_R	输出	OCXO LED 红色控制
5	OCXO_ST_G	输出	OCXO LED 绿色控制
6	VOLUME_IN	输入	用于音频电平控制的电压监视器
7	PWR_ST_R	输出	POWER LED 红色控制
8	MOD_D_OUT	输出	NXDN 模式的发射调制信号
9	GND	-	接地
10	RX_AUDIO_D	输出	NXDN 模式的接收解调信号
11	BEEP	输出	提示音信号输出
12	MIC_D_IN	输入	NXDN 模式发射压缩之前的音频信号
13	INRA_SW	-	未连接
14	NC	-	未连接
15	HOOK_RXD_SCM	输入	挂钩检测输入
16	AMP_SW	输出	音频功率放大器的电源控制
17	SCM_EN	-	未连接
18	AF_MUTE	输出	音频静音控制
19	INSP_SW	-	未连接
20	EVOL_DATA	输出	至 DAC 的串行数据 (用于音频电平调整)
21	PTT_AM16C	输入	至主 MPU 的“按讲开关”信号
22	EVOL_CLK	输出	至 DAC 的串行时钟 (用于音频电平调整)
23	GND	-	接地
24	EVOL_LD	输出	至 DAC 的串行负载 (用于音频电平调整)
25	TAAD_SW	输出	音频电路的路径形成信号
26	TA_SW	输出	音频电路的路径形成信号
27	BEEP_SW	输出	音频电路的路径形成信号

TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
28	PATH_SW	O	Route formation signal of audio circuit
29	RXAD_SW	O	Route formation signal of audio circuit
30	MIC_SW	O	Route formation signal of audio circuit
31	MICAD_SW	O	Route formation signal of audio circuit
32	TD_SW	O	Route formation signal of audio circuit
33	NC	-	No connection
34	LO_VOL_DET	I	Detection of voltage for low voltage state
35	GND	-	Ground
36	PTT_TXD_SCM	-	No connection
CN402 (To X53-413 CN2)			
1	HI_VOL_DET	I	Voltage monitor
2	GND	-	Ground
3	50MPU_A_GND	-	Ground
4	50MPU	I	5V constant voltage
5	50MPU_A_GND	-	Ground
6	DC50	I	5V constant voltage
7	DC50	I	5V constant voltage
8	DC50	I	5V constant voltage
9	DC50	I	5V constant voltage
10	33MPU_A_GND	-	Ground
11	33MPU	I	3.3V constant voltage
12	33MPU	I	3.3V constant voltage
13	33MPU_A_GND	-	Ground
14	50MPU_A	I	5V constant voltage
15	33MPU_A	I	3.3V constant voltage
16	33SH	O	3.3V constant voltage
17	50MPU_CONT	O	5V regulator control
18	NC	-	No connection
19	E_PTT_SH	I	"External press-to-talk-switch" signal to Main MPU
20	SC_SH	I	"Squelch control" signal to Main MPU
21	GND	-	Ground
22	SRXD_ATXO	O	UART signal from RF control MPU to Main MPU
23	STXO_ARXO	I	UART signal from Main MPU to RF control MPU
24	GND	-	Ground
25	RF_PTT	I	"Press-to-talk-switch" signal to Main MPU
26	TX_STATE	I	"During the transmission" signal to Main MPU
27	QT_DQT	I	"Detect QT or DQT" signal to Main MPU
28	RADIO_EER	I	"Detect accident of RF block" signal to Main MPU
29	GND	-	Ground
30	ADSP_CK_SFT	O	"Frequency shift" signal to Analog mode DSP
31	TRUKING	I	"Trunking mode" signal to Main MPU

管脚号	名称	输入/输出	功能
28	PATH_SW	输出	音频电路的路径形成信号
29	RXAD_SW	输出	音频电路的路径形成信号
30	MIC_SW	输出	音频电路的路径形成信号
31	MICAD_SW	输出	音频电路的路径形成信号
32	TD_SW	输出	音频电路的路径形成信号
33	NC	-	未连接
34	LO_VOL_DET	输入	低电压状态的电压检测
35	GND	-	接地
36	PTT_TXD_SCM	-	未连接
CN402(至 X53-413 CN2)			
1	HI_VOL_DET	输入	电压监视器
2	GND	-	接地
3	50MPU_A_GND	-	接地
4	50MPU	输入	5V 恒定电压
5	50MPU_A_GND	-	接地
6	DC50	输入	5V 恒定电压
7	DC50	输入	5V 恒定电压
8	DC50	输入	5V 恒定电压
9	DC50	输入	5V 恒定电压
10	33MPU_A_GND	-	接地
11	33MPU	输入	3.3V 恒定电压
12	33MPU	输入	3.3V 恒定电压
13	33MPU_A_GND	-	接地
14	50MPU_A	输入	5V 恒定电压
15	33MPU_A	输入	3.3V 恒定电压
16	33SH	输出	3.3V 恒定电压
17	50MPU_CONT	输出	5V 调整器控制
18	NC	-	未连接
19	E_PTT_SH	输入	至主 MPU 的“外部按讲开关”信号
20	SC_SH	输入	至主 MPU 的“静噪控制”信号
21	GND	-	接地
22	SRXD_ATXO	输出	从 RF 控制 MPU 到主 MPU 的 UART 信号
23	STXO_ARXO	输入	从主 MPU 到 RF 控制 MPU 的 UART 信号
24	GND	-	接地
25	RF_PTT	输入	至主 MPU 的“按讲开关”信号
26	TX_STATE	输入	至主 MPU 的“发射过程中”信号
27	QT_DQT	输入	至主 MPU 的“检测 QT 或 DQT”信号
28	RADIO_EER	输入	至主 MPU 的“RF 块的检测事件”信号
29	GND	-	接地
30	ADSP_CK_SFT	输出	至模拟模式 DSP 的“频率比偏移”信号
31	TRUKING	输入	至主 MPU 的“中继模式”信号

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TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
32	A16C_CK_SFT	O	"Frequency shift" signal to RF control MPU
33	BER_DAT	O	Serial data for measurement bit error rate
34	BER_CLK	O	Serial clock for measurement bit error rate
35	GND	-	Ground
36	SYS_RST	O	System reset signal from modem control MPU
CN713 (To COM D-sub 9 connector)			
1	CD	-	No connection
2	DSR	I	Data Set Ready
3	RD	I	Receive Data
4	RTS	O	Request to Send
5	SD	O	Send Data
6	CTS	I	Clear to Send
7	DTR	O	Data Terminal Ready
8	RI	-	No connection
9	GND	-	Ground

管脚号	名称	输入/输出	功能
32	A16C_CK_SFT	输出	至 RF 控制 MPU 的“频率偏移”信号
33	BER_DAT	输出	测量比特误码率的串行数据
34	BER_CLK	输出	测量比特误码率的串行时钟
35	GND	-	接地
36	SYS_RST	输出	调制解调器控制 MPU 的系统复位信号
CN713(至 COM D-sub 9 连接器)			
1	CD	-	未连接
2	DSR	输入	数据集就绪
3	RD	输入	接收数据
4	RTS	输出	请求发送
5	SD	输出	发送数据
6	CTS	输入	清除发送
7	DTR	输出	数据端子就绪
8	RI	-	未连接
9	GND	-	接地

RX Unit (X55-3102-XX)

Pin No.	Name	I/O	Function
CN5 (To RX ANT)			
1	RX_SIGNAL	I	Receive signal input (Coaxial)
CN6 (To X45-386 D/5 CN701)			
1	-	O	9V output
2	-	-	Ground
CN36 (To X45-386 D/5 CN701)			
1	-	I	-3V input
2	-	-	Ground
CN41			
1	MONITOR_PORT	O	Use for RX BPF tuning (Coaxial)
CN42 (To X53-413 CN57)			
1	GND	-	Ground
2	GND	-	Ground
3	NC	-	No connection
4	RX_POWER_SAVE	I	RX power save
5	DDS_EN	I	Enable input for DDS
6	VCO_BAND_SW	I	VCO band switch
7	PLL1_EN	I	Enable input for PLL1
8	DA_EN	I	Enable input for DA
9	SIF_CLK	I	Clock input for PLL1/PLL2/DDS/DA
10	GND	-	Ground
11	SIF_DAT	I	Data input for PLL1/PLL2/DDS/DA
12	RX_AUDIO	O	RX audio output
13	PLL_PWR_SAVE	I	Enable input for PLL1/PLL2
14	GND	-	Ground
15	NC	-	No connection
16	FM_RSSI	O	FM RSSI output

RX 单元 (X55-3102-XX)

管脚号	名称	输入/输出	功能
CN5(至 RX ANT)			
1	RX_SIGNAL	输入	接收信号输入 (同轴)
CN6(至 X45-386 D/5 CN701)			
1	-	输出	9V 输出
2	-	-	接地
CN36(至 X45-386 D/5 CN701)			
1	-	输入	-3V 输入
2	-	-	接地
CN41			
1	MONITOR_PORT	输出	用于 RX BPF 调谐 (同轴)
CN42(至 X53-413 CN57)			
1	GND	-	接地
2	GND	-	接地
3	NC	-	未连接
4	RX_POWER_SAVE	输入	RX 节电
5	DDS_EN	输入	启用 DDS 输入
6	VCO_BAND_SW	输入	VCO 频带开关
7	PLL1_EN	输入	启用 PLL1 输入
8	DA_EN	输入	启用 DA 输入
9	SIF_CLK	输入	PLL1/PLL2/DDS/DA 的时钟输入
10	GND	-	接地
11	SIF_DAT	输入	PLL1/PLL2/DDS/DA 的数据输入
12	RX_AUDIO	输出	RX 音频输出
13	PLL_PWR_SAVE	输入	启用 PLL1/PLL2 输入
14	GND	-	接地
15	NC	-	未连接
16	FM_RSSI	输出	FM RSSI 输出

TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
17	PLL2_EN	I	Enable input for PLL2
18	NC (AGC_RSSI)	-	No connection
19	PLL_LOCK_DET	O	PLL1/PLL2 lock detect output
20	CONT_5.0V	I	Switched 5V supply
21	NC	-	No connection
22	AD_CLK	O	AD logic data output
23	GND	-	Ground
24	AD_CLK	I	Clock input for AD
25	NC (IF_NW_SW)	-	No connection
26	AD_DAT_WRITE	I	Serial data input for AD
27	IF_BW_SW	I	IF bandwidth switch input
28	AD_CS	I	Enable input for AD
29	D_GND	-	Ground
30	E2PROM_SCL	I	Clock input for EEPROM
31	CONT_5.0V	I	Switched 5V supply
32	E2PROM_SDA	I/O	Data input/output for EEPROM
33	D_GND	-	Digital ground
34	WP	I	Write protection input for EEPROM
35	GND	-	Ground
36	GND	-	Ground
CN43 (To X53-414 CN300)			
1	RX_IF_VN	O	RX NXDN detection output
CN44 (To X45-386 C/5 CN15)			
1	E	-	Ground
2	B	I	Power supply input
3	B	I	Power supply input
CN45 (To X56-312 A/3 CN406)			
1	REF1	I	Reference signal input
CN46			
1	-	I	Use for RX MCF tuning
2	GND	-	Ground
CN47			
1	-	O	Use for RX MCF tuning
2	-	-	Ground

TX Unit (X56-312X-XX) (A/3)

Pin No.	Name	I/O	Function
CN403			
1	REF_OUT (10MHz)	O	Reference signal distribution (coaxial)
CN405 (To X53-414 CN302)			
1	REF2 (19.2MHz)	O	DSP reference signal output (coaxial)
CN406 (To X55-310 CN45)			
1	REF1 (19.2MHz)	O	RX reference signal output (coaxial)
CN407 (To X42-328 CN2: OCXO Optional unit)			
1	OCXO	I	OCXO (Optional unit) reference signal input (coaxial)

管脚号	名称	输入/输出	功能
17	PLL2_EN	输入	启用 PLL2 输入
18	NC (AGC_RSSI)	-	未连接
19	PLL_LOCK_DET	输出	PLL1/PLL2 锁定检测输出
20	CONT_5.0V	输入	开关 5V 电源
21	NC	-	未连接
22	AD_CLK	输出	AD 逻辑数据输出
23	GND	-	接地
24	AD_CLK	输入	AD 的时钟输入
25	NC (IF_NW_SW)	-	未连接
26	AD_DAT_WRITE	输入	AD 的串行数据输入
27	IF_BW_SW	输入	IF 带宽开关输入
28	AD_CS	输入	启用 AD 输入
29	D_GND	-	接地
30	E2PROM_SCL	输入	EEPROM 的时钟输入
31	CONT_5.0V	输入	开关 5V 电源
32	E2PROM_SDA	输入/输出	EEPROM 的数据输入 / 输出
33	D_GND	-	数字接地
34	WP	输入	EEPROM 的写保护输入
35	GND	-	接地
36	GND	-	接地
CN43(至 X53-414 CN300)			
1	RX_IF_VN	输出	RX NXDN 检测输出
CN44(至 X45-386 C/5 CN15)			
1	E	-	接地
2	B	输入	电源输入
3	B	输入	电源输入
CN45(至 X56-312 A/3 CN406)			
1	REF1	输入	基准信号输入
CN46			
1	-	输入	用于 RX MCF 调谐
2	GND	-	接地
CN47			
1	-	输出	用于 RX MCF 调谐
2	-	-	接地

TX 单元 (X56-312X-XX) (A/3)

管脚号	名称	输入/输出	功能
CN403			
1	REF_OUT (10MHz)	输出	基准信号分配 (同轴)
CN405(至 X53-414 CN302)			
1	REF2 (19.2MHz)	输出	DSP 基准信号输出 (同轴)
CN406(至 X55-310 CN45)			
1	REF1 (19.2MHz)	输出	RX 基准信号输出 (同轴)
CN407(至 X42-328 CN2: OCXO 选装单元)			
1	OCXO	输入	OCXO (选装单元) 基准信号输入 (同轴)

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TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
CN408			
1	REF_IN (10MHz)	I	External reference signal input (coaxial)
CN801 (To X45-386 C/5 CN12)			
1	E	-	Ground
2	B	I	Power supply (Vcc)
3	B	I	Power supply (Vcc)
CN802 (To X45-386 A/5 CN1)			
1	TX OUT	O	TX driver output signal (coaxial)
CN803 (To X42-328 CN1: OCXO Optional unit)			
1	33MPU	O	Switched 3.3V power supply
2	GND	-	Ground
3	OX_SDA	I/O	OCXO EEPROM serial data
4	OX_SCL	O	OCXO EEPROM serial clock
5	OCXO_VR_EN	O	Enable output for OCXO IC3 (potentiometer)
6	OCXO_ON	O	OCXO power on signal
7	OX_SCLK2	O	Serial clock output for OCXO IC3 (potentiometer)
8	OCXO_CURR	I	OCXO current detection signal
9	OX_SDI2	I	Serial data input for OCXO IC3 (potentiometer)
10	OCXO_EXIST	I	OCXO detection signal
11	OX_SDO2	O	Serial data output for OCXO IC3 (potentiometer)
12	GND	-	Ground
13	REF_SW2	O	OCXO reference signal output switch
CN804 (To X53-413 CN56)			
1	GND	-	Ground
2	GND	-	Ground
3	WP	I	EEPROM write protect signal input
4	MOD	I	Modulation signal input
5	GND	-	Ground
6	SDO1	I	Serial data input for IC101, IC202, IC303, IC802, IC803
7	SCLK0	I	Serial clock input for IC703
8	SCLK1	I	Serial clock input for IC101, IC202, IC303, IC802, IC803
9	SDO0	I	Serial data input for IC701, IC703
10	SDI1	O	Serial data output for IC803
11	SR_EN	I	Enable input for IC701, IC703
12	8AD_EN	I	Enable input for IC803
13	SR_OE	I	Enable input for IC703
14	2DA_CE	I	Chip enable input for IC802
15	3DA_EN	I	Enable input for IC701
16	2DA_EN	I	Enable input for IC802
17	LDT	O	RF PLL lock detect output
18	132_CE	I	Chip enable input for IC303

管脚号	名称	输入/输出	功能
CN408			
1	REF_IN(10MHz)	输入	外部基准信号输入(同轴)
CN801(至 X45-386 C/5 CN12)			
1	E	-	接地
2	B	输入	电源(Vcc)
3	B	输入	电源(Vcc)
CN802(至 X45-386 A/5 CN1)			
1	TX OUT	输出	TX 驱动器输出信号(同轴)
CN803(至 X42-328 CN1: OCXO 选装单元)			
1	33MPU	输出	开关 3.3V 电源
2	GND	-	接地
3	OX_SDA	输入/输出	OCXO EEPROM 串行数据
4	OX_SCL	输出	OCXO EEPROM 串行时钟
5	OCXO_VR_EN	输出	OCXO IC3 的启用输出(电位计)
6	OCXO_ON	输出	OCXO 信号功率
7	OX_SCLK2	输出	OCXO IC3 的串行时钟输出(电位计)
8	OCXO_CURR	输入	OCXO 电流检测信号
9	OX_SDI2	输入	OCXO IC3 的串行数据输入(电位计)
10	OCXO_EXIST	输入	OCXO 检测信号
11	OX_SDO2	输出	OCXO IC3 的串行数据输出(电位计)
12	GND	-	接地
13	REF_SW2	输出	OCXO 基准信号输出开关
CN804(至 X53-413 CN56)			
1	GND	-	接地
2	GND	-	接地
3	WP	输入	EEPROM 写保护信号输入
4	MOD	输入	调制信号输入
5	GND	-	接地
6	SDO1	输入	IC101, IC202, IC303, IC802, IC803 的串行数据输入
7	SCLK0	输入	IC703 的串行时钟输入
8	SCLK1	输入	IC101, IC202, IC303, IC802, IC803 的串行时钟输入
9	SDO0	输入	IC701, IC703 的串行数据输入
10	SDI1	输出	IC803 的串行数据输出
11	SR_EN	输入	IC701, IC703 的启用输入
12	8AD_EN	输入	IC803 的启用输入
13	SR_OE	输入	IC703 的启用输入
14	2DA_CE	输入	IC802 的芯片启用输入
15	3DA_EN	输入	IC701 的启用输入
16	2DA_EN	输入	IC802 的启用输入
17	LDT	输出	RF PLL 锁定检测输出
18	132_CE	输入	IC303 的芯片启用输入

TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
19	440_CE	I	Chip enable input for IC101
20	132_EN	I	Load enable input for IC303
21	440_EN	I	Load enable input for IC101
22	VR_EN	I	Load enable input for IC304
23	DDS_EN	I	Load enable input for IC202
24	ANT_SW	I	TX antenna switch input
25	TEMP_PRT	O	Temp protection signal output
26	SCK	I	EEPROM Clock
27	D_GND	-	Ground
28	SDA	I/O	EEPROM Data
29	D_GND	-	Ground
30	CONT_5.0V	I	Switched 5V power supply
31	D_GND	-	Ground
32	CONT_5.0V	I	Switched 5V power supply
33	GND	-	Ground
34	PAG	I	POCSAG Switch
35	GND	-	Ground
36	GND	-	Ground
CN805 (To X53-414 CN400)			
1	GND	-	Ground
2	GND	-	Ground
3	33MPU	I	Switched 3.3V power supply
4	OX_SCLK2	I	Serial clock input for IC601, IC404
5	GND	-	Ground
6	OX_SDO2	I	Serial data input for IC601, IC404
7	GND	-	Ground
8	PLL_19_CE	I	100k Ω load
9	GND	-	Ground
10	PLL_19_EN	I	Enable input for IC404
11	GND	-	Ground
12	REF_LDT	O	19.2MHz PLL lock detect output
13	GND	-	Ground
14	VCXO_DA_EN	I	Enable input for IC601
15	GND	-	Ground
16	OCXO_EXIST	O	OCXO detection signal
17	GND	-	Ground
18	OCXO_CURR	O	OCXO current detection signal
19	GND	-	Ground
20	OCXO_ON	I	OCXO power on signal
21	GND	-	Ground
22	OCXO_VR_EN	I	Enable input for OCXO IC3 (potentiometer)
23	GND	-	Ground
24	OX_SDI2	O	Serial data output for OCXO IC3 (potentiometer)
25	GND	-	Ground

管脚号	名称	输入/输出	功能
19	440_CE	输入	IC101 的芯片启用输入
20	132_EN	输入	IC303 的负载启用输入
21	440_EN	输入	IC101 的负载启用输入
22	VR_EN	输入	IC304 的负载启用输入
23	DDS_EN	输入	IC202 的负载启用输入
24	ANT_SW	输入	TX 天线开关输入
25	TEMP_PRT	输出	温度保护信号输出
26	SCK	输入	EEPROM 时钟
27	D_GND	-	接地
28	SDA	输入/输出	EEPROM 数据
29	D_GND	-	接地
30	CONT_5.0V	输入	开关 5V 电源
31	D_GND	-	接地
32	CONT_5.0V	输入	开关 5V 电源
33	GND	-	接地
34	PAG	输入	POCSAG 开关
35	GND	-	接地
36	GND	-	接地
CN805(至 X53-414 CN400)			
1	GND	-	接地
2	GND	-	接地
3	33MPU	输入	开关 3.3V 电源
4	OX_SCLK2	输入	IC601、IC404 的串行时钟输入
5	GND	-	接地
6	OX_SDO2	输入	IC601、IC404 的串行数据输入
7	GND	-	接地
8	PLL_19_CE	输入	100k Ω 负载
9	GND	-	接地
10	PLL_19_EN	输入	IC404 的启用输入
11	GND	-	接地
12	REF_LDT	输出	19.2MHz PLL 锁定检测输出
13	GND	-	接地
14	VCXO_DA_EN	输入	IC601 的启用输入
15	GND	-	接地
16	OCXO_EXIST	输出	OCXO 检测信号
17	GND	-	接地
18	OCXO_CURR	输出	OCXO 电流检测信号
19	GND	-	接地
20	OCXO_ON	输入	OCXO 信号功率
21	GND	-	接地
22	OCXO_VR_EN	输入	OCXO IC3 的启用输入 (电位计)
23	GND	-	接地
24	OX_SDI2	输出	OCXO IC3 的串行数据输出 (电位计)
25	GND	-	接地

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TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
26	REF_IN_OUT	I	Reference clock switched signal input
27	IMP_H_L	I	100kΩ load
28	REF_EXIST	O	Reference detector signal output
29	OX_SDA	I/O	OCXO EEPROM serial data
30	EXT_EXIST	O	External reference detector signal output
31	OX_SCL	I	OCXO EEPROM serial clock
32	REF_SW	I	Reference signal output switch
33	WP	I	EEPROM write protect signal input
34	REF_SW2	I	OCXO reference signal output switch
35	GND	-	Ground
36	GND	-	Ground
CN806 (To X45-386 A/5 CN20)			
1	GND	-	Ground
2	GND	-	Ground
3	WP	O	EEPROM write protect signal output
4	GND	-	Ground
5	D_GND	-	Ground
6	SDA	I/O	EEPROM Data
7	D_GND	-	Ground
8	SCK	O	EEPROM Clock
9	D_GND	-	Ground
10	CONT_5.0V	O	Switched 5V power supply
11	D_GND	-	Ground
12	TEMP_PRT	I	Temp protection signal input
13	GND	-	Ground
14	ANT_SW	O	TX antenna switch output
15	GND	-	Ground
16	TEMP_RST	O	Temperature sensor reset signal output
17	GND	-	Ground
18	FAN_CONT2	O	FAN2 control signal output
19	GND	-	Ground
20	FAN_CONT	O	FAN1 control signal output
21	GND	-	Ground
22	PWR_CONT	O	Power control signal output
23	GND	-	Ground
24	PWR_PRT	O	Power protection signal output
25	GND	-	Ground
26	RFL_PWR	I	Reflect power signal input
27	GND	-	Ground
28	FWD_PWR	I	Forward power signal input
29	GND	-	Ground
30	FAN_CURR	I	Fan current monitor signal input
31	GND	-	Ground
32	PA_CURR	I	PA current monitor signal input
33	GND	-	Ground

管脚号	名称	输入/输出	功能
26	REF_IN_OUT	输入	基准时钟开关信号输入
27	IMP_H_L	输入	100kΩ 负载
28	REF_EXIST	输出	基准信号检测器输出
29	OX_SDA	输入/输出	OCXO EEPROM 串行数据
30	EXT_EXIST	输出	外部基准检测器信号输出
31	OX_SCL	输入	OCXO EEPROM 串行时钟
32	REF_SW	输入	基准信号输出开关
33	WP	输入	EEPROM 写保护信号输入
34	REF_SW2	输入	OCXO 基准信号输出开关
35	GND	-	接地
36	GND	-	接地
CN806 (至 X45-386 A/5 CN20)			
1	GND	-	接地
2	GND	-	接地
3	WP	输出	EEPROM 写保护信号输出
4	GND	-	接地
5	D_GND	-	接地
6	SDA	输入/输出	EEPROM 数据
7	D_GND	-	接地
8	SCK	输出	EEPROM 时钟
9	D_GND	-	接地
10	CONT_5.0V	输出	开关 5V 电源
11	D_GND	-	接地
12	TEMP_PRT	输入	温度保护信号输入
13	GND	-	接地
14	ANT_SW	输出	TX 天线开关输出
15	GND	-	接地
16	TEMP_RST	输出	温度传感器复位信号输出
17	GND	-	接地
18	FAN_CONT2	输出	FAN2 控制信号输出
19	GND	-	接地
20	FAN_CONT	输出	FAN1 控制信号输出
21	GND	-	接地
22	PWR_CONT	输出	功率控制信号输出
23	GND	-	接地
24	PWR_PRT	输出	功率保护信号输出
25	GND	-	接地
26	RFL_PWR	输入	发射功率信号输入
27	GND	-	接地
28	FWD_PWR	输入	前向功率信号输入
29	GND	-	接地
30	FAN_CURR	输入	风扇电流监视器信号输入
31	GND	-	接地
32	PA_CURR	输入	PA 电流监视器信号输入
33	GND	-	接地

TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
34	NC	-	No connection
35	GND	-	Ground
36	GND	-	Ground
CN807 (To X42-328 CN3: OCXO Optional unit)			
1	8OCXO	O	OCXO power supply 8V
2	GND	-	Ground

管脚号	名称	输入/输出	功能
34	NC	-	未连接
35	GND	-	接地
36	GND	-	接地
CN807(至 X42-328 CN3: OCXO 选装单元)			
1	8OCXO	输出	OCXO 电源 8V
2	GND	-	接地

TX Unit (X56-312X-XX) (B/3)

Pin No.	Name	I/O	Function
CN920 (To X56-312 C/3 CN960)			
1	DC8	O	8V Power supply
2	GND	-	Ground
3	50MPU	O	Switched 5V power supply
4	STB	O	Shift Register Strobe
5	SR_OE	O	Shift Register Output Enable
6	SR_CLK	O	Shift Register Clock
7	SR_DATA	O	Shift Register Data
8	LED1	O	D960 segment "F" control
9	GND	-	Ground
10	LED10	O	D961 segment "F" control
CN921 (To X53-413 CN3)			
1	MIG	-	MIC Ground
2	GND	-	Ground
3	MIC	O	MIC Signal Input
4	33MPU	I	Switched 3.3V power supply
5	33AUD	I	Switched 3.3V power supply
6	VOLUME_IN	O	Volume control output for AF signal
7	SB	I	Power supply output
8	OCXO_ST_R	I	OCXO Red LED Switch
9	PWR_ST_R	I	POWER Red LED Switch
10	OCXO_ST_G	I	OCXO Green LED Switch
11	GND	-	Ground
12	HOOK_RXD_SCM	O	HOOK detect signal
13	SCM_EN	-	No connection
14	PTT_TXD_SCM	O	MIC PTT
15	GND	-	Ground
16	SR_OE	I	Shift Register Output Enable
17	GND	-	Ground
18	SR_CLK	I	Shift Register Clock
19	GND	-	Ground
20	SR_DATA	I	Shift Register Data
21	GND	-	Ground
22	STB1	I	Shift Register Strobe
23	GND	-	Ground
24	K1	O	Key Scan

TX 单元 (X56-312X-XX) (B/3)

管脚号	名称	输入/输出	功能
CN920(至 X56-312 C/3 CN960)			
1	DC8	输出	8V 电源
2	GND	-	接地
3	50MPU	输出	开关 5V 电源
4	STB	输出	移位寄存器选通脉冲
5	SR_OE	输出	移位寄存器输出启用
6	SR_CLK	输出	移位寄存器时钟
7	SR_DATA	输出	移位寄存器数据
8	LED1	输出	D960 段 "F" 控制
9	GND	-	接地
10	LED10	输出	D961 段 "F" 控制
CN921(至 X53-413 CN3)			
1	MIG	-	MIC 接地
2	GND	-	接地
3	MIC	输出	MIC 信号输入
4	33MPU	输入	开关 3.3V 电源
5	33AUD	输入	开关 3.3V 电源
6	VOLUME_IN	输出	AF 信号的音量控制输出
7	SB	输入	电源输出
8	OCXO_ST_R	输入	OCXO 红色 LED 开关
9	PWR_ST_R	输入	POWER 红色 LED 开关
10	OCXO_ST_G	输入	OCXO 绿色 LED 开关
11	GND	-	接地
12	HOOK_RXD_SCM	输出	HOOK 检测信号
13	SCM_EN	-	未连接
14	PTT_TXD_SCM	输出	MIC PTT
15	GND	-	接地
16	SR_OE	输入	移位寄存器输出启用
17	GND	-	接地
18	SR_CLK	输入	移位寄存器时钟
19	GND	-	接地
20	SR_DATA	输入	移位寄存器数据
21	GND	-	接地
22	STB1	输入	移位寄存器选通脉冲
23	GND	-	接地
24	K1	输出	键扫描

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TERMINAL FUNCTION / 端子功能

Pin No.	Name	I/O	Function
25	K2	O	Key Scan
26	K3	O	Key Scan
27	K4	I	Key Scan
28	K5	I	Key Scan
29	DC8	I	8V Power supply
30	GND	-	Ground
31	50MPU	I	Switched 5V power supply
32	50MPU	I	Switched 5V power supply
33	DC8	I	8V Power supply
34	DC8	I	8V Power supply
35	GND	-	Ground
36	DC8	I	8V Power supply
CN923 (To X45-386 E/5 CN905)			
1	VOLUME_IN	I	Volume control input for AF signal
2	33MPU	O	Switched 3.3V power supply
3	GND	-	Ground
4	33AUD	O	Switched 3.3V power supply
5	SB	O	Power supply output
6	SCM_EN	-	No connection
7	GND	-	Ground
8	PTT_TXD_SCM	I	MIC PTT
9	HOOK_RXD_SCM	I	HOOK detect signal
10	MIG	-	MIC ground
11	MIC	I	MIC signal input

管脚号	名称	输入/输出	功能
25	K2	输出	键扫描
26	K3	输出	键扫描
27	K4	输入	键扫描
28	K5	输入	键扫描
29	DC8	输入	8V 电源
30	GND	-	接地
31	50MPU	输入	开关 5V 电源
32	50MPU	输入	开关 5V 电源
33	DC8	输入	8V 电源
34	DC8	输入	8V 电源
35	GND	-	接地
36	DC8	输入	8V 电源
CN923 (至 X45-386 E/5 CN905)			
1	VOLUME_IN	输入	AF 信号的音量控制输入
2	33MPU	输出	开关 3.3V 电源
3	GND	-	接地
4	33AUD	输出	开关 3.3V 电源
5	SB	输出	电源输出
6	SCM_EN	-	未连接
7	GND	-	接地
8	PTT_TXD_SCM	输入	MIC PTT
9	HOOK_RXD_SCM	输入	HOOK 检测信号
10	MIG	-	MIC 接地
11	MIC	输入	MIC 信号输入

TX Unit (X56-312X-XX) (C/3)

Pin No.	Name	I/O	Function
CN960 (To X56-312 B/3 CN920)			
1	DC8	I	8V Power supply
2	GND	-	Ground
3	50MPU	I	Switched 5V power supply
4	STB	I	Shift Register Strobe
5	SR_OE	I	Shift Register Output Enable
6	SR_CLK	I	Shift Register Clock
7	SR_DATA	I	Shift Register Data
8	LED1	I	D960 segment "F" control
9	GND	-	Ground
10	LED10	I	D961 segment "F" control

TX 单元 (X56-312X-XX) (C/3)

管脚号	名称	输入/输出	功能
CN960 (至 X56-312 B/3 CN920)			
1	DC8	输入	8V 电源
2	GND	-	接地
3	50MPU	输入	开关 5V 电源
4	STB	输入	移位寄存器选通脉冲
5	SR_OE	输入	移位寄存器输出启用
6	SR_CLK	输入	移位寄存器时钟
7	SR_DATA	输入	移位寄存器数据
8	LED1	输入	D960 段 "F" 控制
9	GND	-	接地
10	LED10	输入	D961 段 "F" 控制

TERMINAL FUNCTION / 端子功能

CONTROL I/O 25 pin D-sub Connector

Pin No.	Pin Name	I/O	Signal Type	Modification	Description/ Port Type
1	NC	-	-	Default	-
		O	Digital	Land short	RSSI
2	NC	-	-	No	-
3	NC	-	-	No	-
4	AI1	I	Digital	No	Programmable Function Input 1/ CMOS
5	AI2	I	Digital	No	Programmable Function Input 2/ CMOS
6	AI3	I	Digital	No	Programmable Function Input 3/ CMOS
7	DG	-	GND	No	Digital GND
8	TD	I	Analog	No	TX Data Input (signaling)
9	TA	I	Analog	No	TX Audio Input (voice)
10	RD	O	Analog	No	RX Data Output (signaling)
11	RA	O	Analog	No	RX Audio Output (voice)
12	RXG	-	GND	No	RX Signal GND
13	SPM	I	Digital	No	Speaker Mute/ CMOS
14	BER_CLK	O	Digital	No	for Bit Error Rate Clock
15	EMON	I	Digital	No	External Monitor Switch
16	EPTT	I	Digital	No	External PTT Switch
17	SC	O	Digital	No	Squelch Control
18	BER_DAT	O	Digital	No	for Bit Error Rate Data
19	TXG	-	GND	No	TX Signal GND
20	IO1	I/O	Digital	No	Programmable Function I/O 1
21	IO2	I/O	Digital	No	Programmable Function I/O 2
22	IO3	I/O	Digital	No	Programmable Function I/O 3
23	IO4	I/O	Digital	No	Programmable Function I/O 4
24	IO5	I/O	Digital	No	Programmable Function I/O 5
25	IO6	I/O	Digital	No	Programmable Function I/O 6

CONTROL I/O 25 针脚 D-sub 连接器

管脚号	引脚名称	输入/输出	信号类型	更改	说明/端口类型
1	NC	-	-	默认	-
		输出	数字	接地	RSSI
2	NC	-	-	否	-
3	NC	-	-	否	-
4	AI1	输入	数字	否	可编程功能输入 1/ CMOS
5	AI2	输入	数字	否	可编程功能输入 2/ CMOS
6	AI3	输入	数字	否	可编程功能输入 3/ CMOS
7	DG	-	GND	否	数字 GND
8	TD	输入	模拟	否	TX 数据输入 (信令)
9	TA	输入	模拟	否	TX 音频输入 (语音)
10	RD	输出	模拟	否	RX 数据输出 (信令)
11	RA	输出	模拟	否	RX 音频输出 (语音)
12	RXG	-	GND	否	RX 信号 GND
13	SPM	输入	数字	否	扬声器静音 / CMOS
14	BER_CLK	输出	数字	否	用于比特误码率时钟
15	EMON	输入	数字	否	外部监视器开关
16	EPTT	输入	数字	否	外部 PTT 开关
17	SC	输出	数字	否	静噪控制
18	BER_DAT	输出	数字	否	用于比特误码率时钟
19	TXG	-	GND	否	TX 信号 GND
20	IO1	输入/输出	数字	否	可编程功能 I/O 1
21	IO2	输入/输出	数字	否	可编程功能 I/O 2
22	IO3	输入/输出	数字	否	可编程功能 I/O 3
23	IO4	输入/输出	数字	否	可编程功能 I/O 4
24	IO5	输入/输出	数字	否	可编程功能 I/O 5
25	IO6	输入/输出	数字	否	可编程功能 I/O 6

LAN

Pin No.	Pin Name	I/O	Signal Type	Modification	Description/ Port Type
1	TD+	O	Analog	No	TX Signal +
2	TD-	O	Analog	No	TX Signal -
3	RD+	I	Analog	No	RX Signal +
4	NC	-	-	No	-
5	NC	-	-	No	-
6	RD-	I	Analog	No	RX Signal -
7	NC	-	-	No	-
8	NC	-	-	No	-

LAN

管脚号	引脚名称	输入/输出	信号类型	更改	说明/端口类型
1	TD+	输出	模拟	否	TX 信号 +
2	TD-	输出	模拟	否	TX 信号 -
3	RD+	输入	模拟	否	RX 信号 +
4	NC	-	-	否	-
5	NC	-	-	否	-
6	RD-	输入	模拟	否	RX 信号 -
7	NC	-	-	否	-
8	NC	-	-	否	-

NXR-800H

TERMINAL FUNCTION / 端子功能

COM D-sub 9 Connector

Pin No.	Pin Name	I/O	Signal Type	Modification	Description/ Port Type
1	CD	I	Digital	No	Carrier Detect
2	RD	I	Digital	No	Receive Data
3	SD	O	Digital	No	Send Data
4	DTR	O	Digital	No	Data Terminal Ready
5	SG	-	GND	No	Signal GND
6	DSR	I	Digital	No	Data Set Ready
7	RTS	O	Digital	No	Request to Send
8	CTS	I	Digital	No	Clear to Send
9	CI	I	Digital	No	Ringer DET

COM D-sub 9 连接器

管脚号	引脚名称	输入/输出	信号类型	更改	说明/端口类型
1	CD	输入	数字	否	载波检测
2	RD	输入	数字	否	接收数据
3	SD	输出	数字	否	发送数据
4	DTR	输出	数字	否	数据端子就绪
5	SG	-	GND	否	信号 GND
6	DSR	输入	数字	否	数据集就绪
7	RTS	输出	数字	否	请求发送
8	CTS	输入	数字	否	清除发送
9	CI	输入	数字	否	振铃 DET

TEST/SPKR 15 pin Connector

Pin No.	Pin Name	I/O	Signal Type	Modification	Description/ Port Type
1	SB	-	Power	No	Power Supply
2	SB	-	Power	No	Power Supply
3	NC	-	-	No	-
4	GND	-	GND	No	Digital GND
5	GND	-	GND	No	Digital GND
6	SPG	-	GND	No	Speaker GND
7	RD	O	Analog	No	RX Data Output (Equal to D-sub CN.#10)
8	RSSI	O	Analog	No	RSSI Output
9	SPI	I	Analog	No	Internal Speaker Input
10	AO1	O	Digital	default	Auxiliary Output 1 Open collector
				\$R520=47k D5=delete	Auxiliary Output 1 CMOS
11	AO2	O	Digital	default	Auxiliary Output 2 Open collector
				\$R519=47k D12=delete	Auxiliary Output 2 CMOS
12	SPO	O	Analog	No	External Speaker Output
13	AO3	O	Digital	default	Auxiliary Output 3 Open collector
				\$R518=47k D28=delete	Auxiliary Output 3 CMOS
14	AO4	O	Digital	default	Auxiliary Output 4 Open collector
				\$R517=47k D30=delete	Auxiliary Output 4 CMOS
15	AO5	O	Digital	default	Auxiliary Output 5 Open collector
				\$R516=47k D32=delete	Auxiliary Output 5 CMOS

TEST/SPKR 15 引脚连接器

管脚号	引脚名称	输入/输出	信号类型	更改	说明/端口类型
1	SB	-	电源	否	电源
2	SB	-	电源	否	电源
3	NC	-	-	否	-
4	GND	-	GND	否	数字 GND
5	GND	-	GND	否	数字 GND
6	SPG	-	GND	否	扬声器 GND
7	RD	输出	模拟	否	RX 数据输出 (等于 D-sub CN.#10)
8	RSSI	输出	模拟	否	RSSI 输出
9	SPI	输入	模拟	否	内部扬声器输入
10	AO1	输出	数字	默认	辅助输出 1 开放式集电极
				\$R520=47k D5=删除	辅助输出 1 CMOS
11	AO2	输出	数字	默认	辅助输出 2 开放式集电极
				\$R519=47k D12=删除	辅助输出 2 CMOS
12	SPO	输出	模拟	否	外部扬声器输出
13	AO3	输出	数字	默认	辅助输出 3 开放式集电极
				\$R518=47k D28=删除	辅助输出 3 CMOS
14	AO4	输出	数字	默认	辅助输出 4 开放式集电极
				\$R517=47k D30=删除	辅助输出 4 CMOS
15	AO5	输出	数字	默认	辅助输出 5 开放式集电极
				\$R516=47k D32=删除	辅助输出 5 CMOS

TERMINAL FUNCTION / 端子功能

Microphone Connector (Left =1...Right=8, Front Panel View)

Pin No.	Pin Name	I/O	Signal Type	Modification	Description/ Port Type
1	NC	-	-	No	-
2	SB	-	Power	No	Power
3	GND	-	GND	No	Digital GND
4	PTT	I	Digital	No	PTT Signal/ CMOS Active Lo
5	MIG	-	-	No	MIC GND
6	MIC	I	Analog	No	MIC Input
7	HOOK	I	Digital	No	HOOK Detect Signal CMOS, Active Lo
8	NC	-	-	No	-

麦克风连接器 (左 =1...右 =8, 前面板视图)

管脚号	引脚名称	输入/输出	信号类型	更改	说明 / 端口类型
1	NC	-	-	否	-
2	SB	-	电源	否	电源
3	GND	-	GND	否	数字 GND
4	PTT	输入	数字	否	PTT 信号 / CMOS 低电平有效
5	MIG	-	-	否	MIC GND
6	MIC	输入	模拟	否	MIC 输入
7	HOOK	输入	数字	否	HOOK 检测信号 CMOS, 低电平有效
8	NC	-	-	否	-

Frame Synchronous Connector (Left =1...Right=4, Rear Panel View)

There are two connectors at the rear panel, these are the same function.

Pin No.	Pin Name	I/O	Signal Type	Modification	Description/ Port Type
1	FRMA	I/O	-	No	RS-485 Differential Signal A
2	NC	-	-	No	-
3	NC	-	-	No	-
4	FRMB	I/O	-	No	RS-485 Differential Signal B

帧同步连接器 (左 =1...右 =4, 后面板视图)

后面板有两个连接器，它们的功能相同。

管脚号	引脚名称	输入/输出	信号类型	更改	说明 / 端口类型
1	FRMA	输入/输出	-	否	RS-485 差分信号 A
2	NC	-	-	否	-
3	NC	-	-	否	-
4	FRMB	输入/输出	-	否	RS-485 差分信号 B

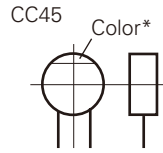
NXR-800H

PARTS LIST / 零件表

CAPACITORS

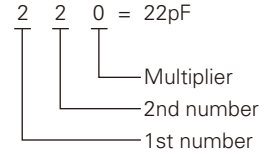
$\frac{C}{1} \frac{C}{2} \frac{45}{3} \frac{TH}{4} \frac{1H}{5} \frac{220}{6} \frac{J}{6}$

- 1 = Type ... ceramic, electrolytic, etc.
- 2 = Shape ... round, square, etc.
- 3 = Temp. coefficient
- 4 = Voltage rating
- 5 = Value
- 6 = Tolerance



• Capacitor value

- 010 = 1pF
- 100 = 10pF
- 101 = 100pF
- 102 = 1000pF = 0.001μF
- 103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470±60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF : -10~+50 Less than 4.7μF : -10~+75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

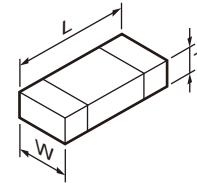
• Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V	
1st word	0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35	-
2	100	125	160	200	250	315	400	500	630	800	-	-
3	1000	1250	1600	2000	2500	2150	4000	5000	6300	8000	-	-

• Chip capacitors

- (EX) $\frac{C}{1} \frac{C}{2} \frac{73}{3} \frac{F}{4} \frac{SL}{5} \frac{1H}{6} \frac{000}{7} \frac{J}{7}$ → Refer to the table above.
- 1 = Type
 - 2 = Shape
 - 3 = Dimension
 - 4 = Temp. coefficient
 - 5 = Voltage rating
 - 6 = Value
 - 7 = Tolerance
- (Chip) (CH, RH, UJ, SL)
- (EX) $\frac{C}{1} \frac{K}{2} \frac{73}{3} \frac{F}{4} \frac{F}{5} \frac{1H}{6} \frac{000}{7} \frac{Z}{7}$
- (Chip) (B, F)

• Dimension



Chip capacitor

Code	L	W	T
Empty	5.6±0.5	5.0±0.5	Less than 2.0
A	4.5±0.5	3.2±0.4	Less than 2.0
B	4.5±0.5	2.0±0.3	Less than 2.0
C	4.5±0.5	1.25±0.2	Less than 1.25
D	3.2±0.4	2.5±0.3	Less than 1.5
E	3.2±0.2	1.6±0.2	Less than 1.25
F	2.0±0.3	1.25±0.2	Less than 1.25
G	1.6±0.2	0.8±0.2	Less than 1.0
H	1.0±0.05	0.5±0.05	0.5±0.05

Chip resistor

Code	L	W	T
E	3.2±0.2	1.6±0.2	1.0
F	2.0±0.3	1.25±0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1
H	1.0±0.05	0.5±0.05	0.35±0.05

RESISTORS

• Chip resistor (Carbon)

- (EX) $\frac{R}{1} \frac{D}{2} \frac{73}{3} \frac{E}{4} \frac{B}{5} \frac{2B}{6} \frac{000}{7} \frac{J}{7}$
- (Chip) (B, F)

• Carbon resistor (Normal type)

- (EX) $\frac{R}{1} \frac{D}{2} \frac{14}{3} \frac{B}{4} \frac{B}{5} \frac{2C}{6} \frac{000}{7} \frac{J}{7}$

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Rating wattage
- 6 = Value
- 7 = Tolerance

• Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PARTS LIST / 零件表

* New Parts. Δ indicates safety critical components.

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

L : Scandinavia

Y : PX (Far East, Hawaii)

C : China

K : USA

T : England

X : Australia

P : Canada

E : Europe

M : Other Areas

NXR-800H

FINAL UNIT (X45-3862-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
NXR-800H					
1	3A		A62-1142-02	MAIN PANEL	
3	1E		B10-2781-04	FRONT GLASS ACCESSORY	
4	3A		B11-1841-04	FILTER (PF)	
5	3A		B11-1842-04	FILTER (17SEG)	
6	3A		B11-1843-04	FILTER (LED)	
7	3A		B11-1844-04	FILTER (STATUS)	
8	3A		B42-7296-04	STICKER (NEXEDGE)	
9	3A		B43-1188-04	BADGE	
10	1F		B62-2191-10	INSTRUCTION MANUAL	
12	2B		E04-0463-05	RF COAXIAL RECEPTACLE (BNC)	
13	1F		E30-3344-25	DC CORD ACCESSORY	
14	1B		E30-7581-05	DC CORD	
15	2C		E30-7582-05	TRUNK CABLE	
16	1B,2C		E30-7583-05	TRUNK CABLE	
17	1B,1C		E37-1295-05	FLAT CABLE (36P)	
18	1B		E37-1299-05	LEAD WIRE WITH TERMINAL (FUSE-DC+)	
19	1B		E37-1300-05	LEAD WIRE WITH TERMINAL (FUSE-DC-)	
20	1B		E37-1301-05	LEAD WIRE WITH TERMINAL (DC-PA+)	
21	1B		E37-1302-05	LEAD WIRE WITH TERMINAL (DC-PA-)	
22	2C		E37-1303-05	LEAD WIRE WITH CONNECTOR (BNC-RX)	
23	1D		E37-1304-05	LEAD WIRE WITH CONNECTOR (BN-REF)	
24	1B		E37-1305-05	LEAD WIRE WITH CONNECTOR (DC-TX)	
25	1C		E37-1306-05	LEAD WIRE WITH CONNECTOR (DC-CONT)	
26	2C		E37-1307-05	LEAD WIRE WITH CONNECTOR (DC-RX)	
27	2D		E37-1308-05	LEAD WIRE WITH CONNECTOR (RX-DCDC)	
28	1D		E37-1310-05	LEAD WIRE WITH CONNECTOR (DSUB-25P)	
29	3B		E37-1311-05	LEAD WIRE WITH CONNECTOR (DSUB-9P)	
30	2D		E37-1313-05	LEAD WIRE WITH CONNECTOR (ACC15)	
31	3B		E37-1314-05	LEAD WIRE WITH CONNECTOR (DISP-MIC)	
32	3B		E37-1315-05	LEAD WIRE WITH CONNECTOR (DISP-17SEG)	
33	2B		E37-1316-05	LEAD WIRE WITH CONNECTOR (SP)	
34	1E		E37-1381-05	15P PLUG ACCESSORY	
36	1D,1E		F05-1537-05	BLADE FUSE (15A/32V) ACCESSORY	
37	2A		F07-1930-05	COVER (FAN)	
38	1D		F09-0445-05	CAP (25P)	
39	3B		F09-0484-05	CAP (9P)	
40	2A		F09-0491-05	FANMOTOR	
42	3A		G10-1343-04	FIBROUS SHEET (FRONT PANEL)	
43	1B		G10-1395-04	FIBROUS SHEET (SHIELDING CASE)	
44	3C		G10-1396-04	FIBROUS SHEET (SHIELDING COVER)	
45	2B		G11-4408-04	RUBBER SHEET (CONT-TR)	
47	3A		G13-2163-04	CUSHION (PF)	
50	1A		G13-2282-04	CONDUCTIVE CUSHION	
52	3B		J19-5496-02	HOLDER (DISP)	
53	1C		J19-5497-05	HOLDER (COMPACT FLASH)	
54	1E		J29-0725-04	BRACKET (SIDE)	
55	3A		J39-0655-03	SPACER (SP)	
56	2D		J61-0307-05	BAND (DC)	
58	1E		K01-0421-05	HANDLE ACCESSORY	
59	3A		K29-4539-04	KNOB (VOLUME)	
61	1F		L79-1419-05	LINE FILTER (DC)	

Ref. No.	Address	New parts	Parts No.	Description	Destination
A	1E		N08-0563-04	DRESSED SCREW (FRONT GLASS)	
B	3B,1D		N09-2292-05	HEXAGON HEAD SCREW (DSUB)	
C	1C		N30-2008-43	PAN HEAD MACHINE SCREW (COMPACT FLASH)	
D	2C,1D		N30-2606-48	PAN HEAD MACHINE SCREW (BNC)	
E	2A		N30-3035-43	PAN HEAD MACHINE SCREW (FAN)	
F	2D,3D		N32-3006-43	FLAT HEAD MACHINE SCREW (TOP,REAR)	
G	3A,1E		N32-4008-43	FLAT HEAD MACHINE SCREW (PANEL)	
H	1B,1C		N67-3008-48	PAN HEAD SEMS SCREW (AVR)	
J	3B		N80-2006-43	PAN HEAD TAPTITE SCREW (DISP)	
K	1D		N80-2608-43	PAN HEAD TAPTITE SCREW (FUSE)	
L	1B,2C		N87-2608-48	BRAZIER HEAD TAPTITE SCREW (PCB)	
64	3A		T07-0347-15	SPEAKER	
-			X53-4132-72	SERVICE CONTROL UNIT	
-			X53-4140-11	SERVICE CONTROL UNIT	
-			490-0174-05	ADHESIVE TAPE	
FINAL UNIT (X45-3862-XX) -70: C -71: C2					
C1,2			CD04BD1H101M	ELECTRO 100UF 50WV	
C7,8			CE32BM1V220M	CHIP EL 22UF 35WV	
C10,11			CK73GB1H471K	CHIP C 470PF K	
C15-17			CK73GB1H103K	CHIP C 0.010UF K	
C21			CK73GB1H471K	CHIP C 470PF K	
C25,26			CK73GB1H103K	CHIP C 0.010UF K	
C29,30			CK73GB1H471K	CHIP C 470PF K	
C32,33			CE32BM1V220M	CHIP EL 22UF 35WV	
C36			CK73GB1H471K	CHIP C 470PF K	
C37			CK73GB1H103K	CHIP C 0.010UF K	
C38			CE32BM1V220M	CHIP EL 22UF 35WV	
C39			CK73GB1H471K	CHIP C 470PF K	
C40			CK73GB1H103K	CHIP C 0.010UF K	
C41,42			CK73GB1H471K	CHIP C 470PF K	
C44			CE32CL1V100M	CHIP EL 10UF 35WV	
C46			CK73GB1H471K	CHIP C 470PF K	
C47			CK73GB1H103K	CHIP C 0.010UF K	
C49			CK73GB1H473K	CHIP C 0.047UF K	
C50-52			CK73GB1H471K	CHIP C 470PF K	
C53			CK73GB1H103K	CHIP C 0.010UF K	
C55			CC73GC1H100D	CHIP C 10PF D	
C59			CK73GB1H103K	CHIP C 0.010UF K	
C60			C93-0560-05	CHIP C 10PF D	C
C60			C93-0564-05	CHIP C 22PF J	C2
C61			CK73GB1H471K	CHIP C 470PF K	
C62			CK73GB1H103K	CHIP C 0.010UF K	
C63-65			CK73GB1H471K	CHIP C 470PF K	
C67			CK73GB1H471K	CHIP C 470PF K	
C68			CE32CL1V100M	CHIP EL 10UF 35WV	
C70			CK73GB1H103K	CHIP C 0.010UF K	
C71-75			CK73GB1H471K	CHIP C 470PF K	
C77,78			CK73GB1H471K	CHIP C 470PF K	
C80			CK73GB1H103K	CHIP C 0.010UF K	
C82			CK73GB1H104K	CHIP C 0.10UF K	
C83			CK73GB1H471K	CHIP C 470PF K	

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PARTS LIST / 零件表

FINAL UNIT (X45-3862-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C85			CC73GCH1H080D	CHIP C 8.0PF D		C710			CK73GB1H104K	CHIP C 0.10UF K	
C86			CK73GB1H103K	CHIP C 0.010UF K		C711			CS77CB21C100M	CHIP TNTL 10UF 16WV	
C87			CC73GCH1H100D	CHIP C 10PF D		C712			CE32AU1C330M	CHIP EL 33UF 16WV	
C88-90			CK73GB1H471K	CHIP C 470PF K		C713,714			CK73GB1H104K	CHIP C 0.10UF K	
C94			CC73GCH1H101J	CHIP C 100PF J		C715			CE32AU1C330M	CHIP EL 33UF 16WV	
C95-102			CK73GB1H471K	CHIP C 470PF K		C716			CK73GB1H104K	CHIP C 0.10UF K	
C104			CK73GB1H471K	CHIP C 470PF K		C717,718			CK73GB1H471K	CHIP C 470PF K	
C105			C93-0599-05	CHIP C 470PF K		C900			CK73GB1H104K	CHIP C 0.10UF K	
C106			CK73GB1H471K	CHIP C 470PF K		C901			CK73GB1H102K	CHIP C 1000PF K	
C108,109			CK73GB1H471K	CHIP C 470PF K		C902			CC73GCH1H101J	CHIP C 100PF J	
C112			CK73GB1H471K	CHIP C 470PF K		C904			CC73GCH1H101J	CHIP C 100PF J	
C113,114			CK73GB1H472K	CHIP C 4700PF K		C905			CK73FB0J106K	CHIP C 10UF K	
C115			CK73GB1H471K	CHIP C 470PF K		C906-908			CK73GB1H102K	CHIP C 1000PF K	
C116			C93-0552-05	CHIP C 2.0PF C		C909,910			CC73GCH1H101J	CHIP C 100PF J	
C117			CK73GB1H103K	CHIP C 0.010UF K		C912,913			CC73GCH1H101J	CHIP C 100PF J	
C119			CC73GCH1H050C	CHIP C 5.0PF C	C	C914			CK73GB1H104K	CHIP C 0.10UF K	
C119			CC73GCH1H070B	CHIP C 7.0PF B	C2	C915			CC73GCH1H101J	CHIP C 100PF J	
C122			C93-0563-05	CHIP C 18PF J	C2	C916			CK73GB1H102K	CHIP C 1000PF K	
C122			C93-0564-05	CHIP C 22PF J	C	CN1			E04-0193-05	PIN SOCKET	
C123			C93-0563-05	CHIP C 18PF J	C	CN2			E23-0902-05	TERMINAL	
C123			C93-0564-05	CHIP C 22PF J	C2	CN8			E41-2671-05	PIN ASSY	
C124			CK73GB1H471K	CHIP C 470PF K		CN11			E41-2673-05	PIN ASSY	
C126			C93-0553-05	CHIP C 3.0PF C	C	CN12			E41-2672-05	PIN ASSY	
C126			C93-0555-05	CHIP C 5.0PF C	C2	CN15			E41-2672-05	PIN ASSY	
C127,128			CK73GB1H471K	CHIP C 470PF K		CN19			E04-0193-05	PIN SOCKET	
C130			C93-0559-05	CHIP C 9.0PF D	C2	CN20			E40-6656-05	PIN ASSY	
C131			C93-0556-05	CHIP C 6.0PF D	C	CN501			E23-0762-05	TERMINAL	
C132			C93-0559-05	CHIP C 9.0PF D	C2	CN701			E41-2741-05	PIN ASSY	
C133,134			CK73GB1H471K	CHIP C 470PF K		CN905			E41-1483-05	PIN ASSY	
C137			C93-0557-05	CHIP C 7.0PF D	C2	J901			E58-0526-05	MODULAR JACK	
C138			CE32CL1V100M	CHIP EL 10UF 35WV		CN4			J13-0071-05	FUSE HOLDER	
C141			C93-0562-05	CHIP C 15PF J	C	L1,2			L92-0179-05	CHIP FERRITE	
C141			C93-0564-05	CHIP C 22PF J	C2	L3			L79-1938-05	FILTER	
C147			C93-0556-05	CHIP C 6.0PF D	C	L4			L92-0131-05	CHIP FERRITE	
C149			C93-0555-05	CHIP C 5.0PF C	C	L5			L34-4518-05	AIR-CORE COIL	
C149			C93-0557-05	CHIP C 7.0PF D	C2	L9			L34-4638-05	AIR-CORE COIL	
C150			CC73GCH1H100D	CHIP C 10PF D	C	L10			L34-4645-15	AIR-CORE COIL	
C150,151			CC73GCH1H100D	CHIP C 10PF D	C2	L12			L34-4518-05	AIR-CORE COIL	C
C153,154			CC73GCH1H101J	CHIP C 100PF J		L12-15			L34-4518-05	AIR-CORE COIL	C2
C155-157			CC73GCH1H100D	CHIP C 10PF D		L13-15			L34-4517-05	AIR-CORE COIL	C
C159			C93-0554-05	CHIP C 4.0PF C	C	L17			L34-4523-05	AIR-CORE COIL	
C162			CK73GB1H104K	CHIP C 0.10UF K		L18			L41-6868-14	SMALL FIXED INDUCTOR (6.8NH)	C2
C163			CC73GCH1H100D	CHIP C 10PF D		L20			L92-0179-05	CHIP FERRITE	
C166			CC73GCH1H100D	CHIP C 10PF D		L26			L92-0179-05	CHIP FERRITE	
C187,188			C92-0905-05	OS-CON 47UF 35WV		L27			L34-4517-05	AIR-CORE COIL	C2
C189			CK73GB1H103K	CHIP C 0.010UF K		L701,702			L41-4705-33	SMALL FIXED INDUCTOR (47UH)	
C190			CK73GB1H471K	CHIP C 470PF K		L703,704			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C191			CK73GB1E105K	CHIP C 1.0UF K		L900			L92-0447-05	BEADS CORE	
C192			CC73FCH1H180J	CHIP C 18PF J	C	CP1			RK75GB1J103J	CHIP-COM 10K J 1/16W	
C193			CC73FCH1H560J	CHIP C 56PF J	C	R1			RK73FB2B102J	CHIP R 1.0K J 1/8W	
C194			CC73FCH1H050C	CHIP C 5.0PF C	C2	R2			RK73FB2B5R6J	CHIP R 5.6 J 1/8W	
C195			CC73FCH1H100D	CHIP C 10PF D	C2	R3			RK73FB2B102J	CHIP R 1.0K J 1/8W	
C196			CC73FCH1H180J	CHIP C 18PF J	C2	R4			R92-3627-05	CHIP R 0.005 D 1.0W	
C701			CK73GB1E105K	CHIP C 1.0UF K		R9			RK73GB2A101J	CHIP R 100 J 1/10W	
C702,703			CK73GB1H471K	CHIP C 470PF K		R12,13			RK73GB2A473J	CHIP R 47K J 1/10W	
C704			CE32AU1E100M	CHIP EL 10UF 25WV		R15			RK73GB2A332J	CHIP R 3.3K J 1/10W	
C705			CK73GB1E105K	CHIP C 1.0UF K		R17			RK73GB2A103J	CHIP R 10K J 1/10W	
C706,707			CK73GB1H471K	CHIP C 470PF K		R20			RK73GB2A104J	CHIP R 100K J 1/10W	
C708			CE32CL1V100M	CHIP EL 10UF 35WV							
C709			CE32AU1C330M	CHIP EL 33UF 16WV							

PARTS LIST / 零件表

FINAL UNIT (X45-3862-XX)
CONTROL UNIT (X53-4132-71)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
R21,22			RK73GB2A824J	CHIP R 820K J 1/10W		R910			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R23			RK73FB2B000J	CHIP R 0.0 J 1/8W		R911,912			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R25			RK73GB2A104J	CHIP R 100K J 1/10W		R914			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R26			RK73EB2E101J	CHIP R 100 J 1/4W	C	R915			RS14DB3A4R7J	FL-PROOF RS 4.7 J 1W	C2
R26			RK73EB2E121J	CHIP R 120 J 1/4W	C2	VR1			R32-0744-05	SEMI FIXED VARIABLE RESISTOR (220)	
R27			RK73GB2A224J	CHIP R 220K J 1/10W		VR2			R32-0754-05	SEMI FIXED VARIABLE RESISTOR (10K)	
R28			RK73GB2A474J	CHIP R 470K J 1/10W		VR902			R31-0668-15	VARIABLE RESISTOR (10K)	
R29,30			RK73GB2A103J	CHIP R 10K J 1/10W		D4			Z5W27V	SURGE ABSORBER	
R31,32			RK73GB2A104J	CHIP R 100K J 1/10W		D5			DSA3A1-FK	DIODE	
R33			RK73GB2A684J	CHIP R 680K J 1/10W		D6			1SS355	DIODE	
R34			RK73FB2B8R2J	CHIP R 8.2 J 1/8W		D7			02CZ5.6(Y)F	ZENER DIODE	
R35,36			RK73GB2A683J	CHIP R 68K J 1/10W		D9,10			HSB88WS	DIODE	
R37			RK73GB2A684J	CHIP R 680K J 1/10W		D11			L7091CER	DIODE	
R38			RK73FB2B151J	CHIP R 150 J 1/8W		D14-16			L7091CER	DIODE	
R39,40			RK73GB2A824J	CHIP R 820K J 1/10W		D902			AVRM16270MABB	VARIATOR	
R41			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC1			LTC6101BIS5-F	ANALOGUE IC	
R42			RK73FB2B8R2J	CHIP R 8.2 J 1/8W		IC2			NJM2904E-ZB	ANALOGUE IC	
R44			RK73FB2B8R2J	CHIP R 8.2 J 1/8W		IC3			TA78L05FF	MOS-IC	
R45,46			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC4-6			NJM2904E-ZB	ANALOGUE IC	
R47			RK73FB2B151J	CHIP R 150 J 1/8W		IC7			S-8130AC	MOS-IC	
R49			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC8			NJM2904E-ZB	ANALOGUE IC	
R50,51			RK73GB2A104J	CHIP R 100K J 1/10W		IC9			S24CS02AFJTBG	ROM IC	
R52			RK73FB2B8R2J	CHIP R 8.2 J 1/8W		IC10	1A		RA30H4047M123	MOS-IC	C
R53,54			RK73GB2A154J	CHIP R 150K J 1/10W		IC10	1A		RA45H4047M131	MOS-IC	C2
R55-58			RK73GB2A104J	CHIP R 100K J 1/10W		IC11	1B		NJM7808FA-ZB	BI-POLAR IC	
R59,60			RK73GB2A103J	CHIP R 10K J 1/10W		IC12	1B		NJM2388F10-ZB	BI-POLAR IC	
R61			RK73EB2E101J	CHIP R 100 J 1/4W		IC701			NJM78L05UA-ZB	BI-POLAR IC	
R62			RK73GH2A513D	CHIP R 51K D 1/10W	C2	IC702			LTC1046IS8	MOS-IC	
R62			RK73GH2A563D	CHIP R 56K D 1/10W	C	IC703			TK72130CS	BI-POLAR IC	
R63			RK73GH2A333D	CHIP R 33K D 1/10W		Q2			SSM3K15TE(F)	FET	
R64			RK73GB2A474J	CHIP R 470K J 1/10W		Q4			2SJ506-E(S)	FET	
R65			RK73GB2A473J	CHIP R 47K J 1/10W		Q5,6			SSM3K15TE(F)	FET	
R66			RK73GB2A100J	CHIP R 10 J 1/10W		Q8			SSM3K15TE(F)	FET	
R67			RS14DB3D560J	FL-PROOF RS 56 J 2W		CONTROL UNIT (X53-4132-71)					
R68			RK73GB2A104J	CHIP R 100K J 1/10W		C1-5			CK73GB1H102K	CHIP C 1000PF K	
R69			RK73GB2A103J	CHIP R 10K J 1/10W		C6			CC73GCH1H101J	CHIP C 100PF J	
R70-72			RK73GB2A000J	CHIP R 0.0 J 1/10W		C7			CK73GB1H102K	CHIP C 1000PF K	
R75,76			RK73GB2A472J	CHIP R 4.7K J 1/10W		C8			CC73GCH1H101J	CHIP C 100PF J	
R78			RK73GB2A104J	CHIP R 100K J 1/10W		C9			CK73GB1H102K	CHIP C 1000PF K	
R89			RK73GB2A000J	CHIP R 0.0 J 1/10W		C10			CC73GCH1H101J	CHIP C 100PF J	
R92			RK73GB2A104J	CHIP R 100K J 1/10W		C12-16			CK73GB1H102K	CHIP C 1000PF K	
R102			RK73GH2A101D	CHIP R 100 D 1/10W		C18-28			CK73GB1H102K	CHIP C 1000PF K	
R104			RK73GB2A393J	CHIP R 39K J 1/10W		C29			CC73GCH1H101J	CHIP C 100PF J	
R121			RK73GH2A103D	CHIP R 10K D 1/10W		C30-33			CK73GB1H102K	CHIP C 1000PF K	
R123			RK73GB2A103J	CHIP R 10K J 1/10W		C34			CC73GCH1H101J	CHIP C 100PF J	
R124			RK73FB2B270J	CHIP R 27 J 1/8W	C2	C35			CK73GB1H102K	CHIP C 1000PF K	
R124			RK73FB2B390J	CHIP R 39 J 1/8W	C	C36			CC73GCH1H101J	CHIP C 100PF J	
R125			R92-1061-05	JUMPER REST 0 OHM		C37			CK73GB1H104K	CHIP C 0.10UF K	
R140			RK73GB2A103J	CHIP R 10K J 1/10W		C39-47			CK73GB1H102K	CHIP C 1000PF K	
R142			RK73GB2A000J	CHIP R 0.0 J 1/10W		C49			CC73GCH1H101J	CHIP C 100PF J	
R144			RK73GB2A000J	CHIP R 0.0 J 1/10W	C	C50-53			CK73GB1H102K	CHIP C 1000PF K	
R145			RK73GB2A000J	CHIP R 0.0 J 1/10W	C2	C54			CC73GCH1H101J	CHIP C 100PF J	
R150			RK73GB2A000J	CHIP R 0.0 J 1/10W		C55			CK73GB1H102K	CHIP C 1000PF K	
R900			RK73GB2A000J	CHIP R 0.0 J 1/10W		C56			CC73GCH1H101J	CHIP C 100PF J	
R901			RK73GB2A182J	CHIP R 1.8K J 1/10W		C57			CK73GB1H102K	CHIP C 1000PF K	
R902			RK73GB2A000J	CHIP R 0.0 J 1/10W		C58			CC73GCH1H101J	CHIP C 100PF J	
R903			RK73GB2A681J	CHIP R 680 J 1/10W							
R905,906			RK73GB2A000J	CHIP R 0.0 J 1/10W							
R907			RK73GH2A153D	CHIP R 15K D 1/10W							
R909			RK73GB2A000J	CHIP R 0.0 J 1/10W							

If a part reference number is listed in a shaded box, that part does not come with the PCB.

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CONTROL UNIT (X53-4132-71)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C60-62			CK73GB1H102K	CHIP C 1000PF K		C165			CK73GB1H102K	CHIP C 1000PF K	
C63			CK73GB1H104K	CHIP C 0.10UF K		C166			CE32AU1C330M	CHIP EL 33UF 16WV	
C64			CK73GB1H102K	CHIP C 1000PF K		C169			CK73FB0J106K	CHIP C 10UF K	
C65			CK73FB0J106K	CHIP C 10UF K		C170			CK73GB1H102K	CHIP C 1000PF K	
C66			CK73GB1H102K	CHIP C 1000PF K		C172			CK73FB0J106K	CHIP C 10UF K	
C67			CK73FB0J106K	CHIP C 10UF K		C173			CC73GCH1H101J	CHIP C 100PF J	
C68			CK73GB1H102K	CHIP C 1000PF K		C174			CK73GB1H102K	CHIP C 1000PF K	
C69			CK73GB1H104K	CHIP C 0.10UF K		C175			CC73GCH1H391J	CHIP C 390PF J	
C70			CK73GB1H102K	CHIP C 1000PF K		C177			CC73GCH1H101J	CHIP C 100PF J	
C71			CK73FB0J106K	CHIP C 10UF K		C178			CK73FB0J106K	CHIP C 10UF K	
C72			CK73GB1E105K	CHIP C 1.0UF K		C188,189			CK73GB1H104K	CHIP C 0.10UF K	
C73			CC73GCH1H101J	CHIP C 100PF J		C190			CK73GB1E105K	CHIP C 1.0UF K	
C74			CK73GB1H104K	CHIP C 0.10UF K		C192,193			CK73GB1E105K	CHIP C 1.0UF K	
C75			CC73GCH1H101J	CHIP C 100PF J		C194			CC73GCH1H560J	CHIP C 56PF J	
C76			CK73GB1H102K	CHIP C 1000PF K		C195			CC73GCH1H181J	CHIP C 180PF J	
C77			C93-0912-05	CHIP C 100UF M		C196			CC73GCH1H101J	CHIP C 100PF J	
C78			CK73FB0J106K	CHIP C 10UF K		C197			CC73GCH1H330J	CHIP C 33PF J	
C79-82			CK73GB1H104K	CHIP C 0.10UF K		C199			C93-0912-05	CHIP C 100UF M	
C83-86			CK73FB0J106K	CHIP C 10UF K		C200			CK73FB0J106K	CHIP C 10UF K	
C87			C93-0912-05	CHIP C 100UF M		C202			CK73GB1E105K	CHIP C 1.0UF K	
C88			CK73GB1H103K	CHIP C 0.010UF K		C203			CC73GCH1H101J	CHIP C 100PF J	
C89,90			CC73GCH1H221J	CHIP C 220PF J		C204			CC73GCH1H121J	CHIP C 120PF J	
C92			CC73GCH1H100D	CHIP C 10PF D		C205			CK73GB1H182K	CHIP C 1800PF K	
C95			C93-0912-05	CHIP C 100UF M		C206			C93-0912-05	CHIP C 100UF M	
C96			CC73GCH1H101J	CHIP C 100PF J		C207			CK73GB1H102K	CHIP C 1000PF K	
C97			CK73GB1H104K	CHIP C 0.10UF K		C208			CK73FB0J106K	CHIP C 10UF K	
C98			CK73FB0J106K	CHIP C 10UF K		C209			CK73GB1H103K	CHIP C 0.010UF K	
C99			CK73GB1H102K	CHIP C 1000PF K		C210			CK73GB1E105K	CHIP C 1.0UF K	
C102			CC73GCH1H150J	CHIP C 15PF J		C211			CK73GB1H392K	CHIP C 3900PF K	
C103			CC73GCH1H101J	CHIP C 100PF J		C212			CC73GCH1H120J	CHIP C 12PF J	
C104-106			CD04BD1H221M	ELECTRO 220UF 50WV		C213,214			CK73GB1H103K	CHIP C 0.010UF K	
C107			CK73GB1H102K	CHIP C 1000PF K		C215			CK73GB1H104K	CHIP C 0.10UF K	
C108			CK73GB1H104K	CHIP C 0.10UF K		C216			CC73GCH1H100D	CHIP C 10PF D	
C109			CK73GB1H102K	CHIP C 1000PF K		C217			CK73GB1H103K	CHIP C 0.010UF K	
C110			C93-0912-05	CHIP C 100UF M		C218			CC73GCH1H471J	CHIP C 470PF J	
C111			CK73GB1H104K	CHIP C 0.10UF K		C219			CC73GCH1H100D	CHIP C 10PF D	
C119			CC73GCH1H181J	CHIP C 180PF J		C220			CK73GB1H103K	CHIP C 0.010UF K	
C120			CK73GB1H102K	CHIP C 1000PF K		C222			CC73GCH1H150J	CHIP C 15PF J	
C121			CK73FB0J106K	CHIP C 10UF K		C223			CK73GB1H103K	CHIP C 0.010UF K	
C122			CC73GCH1H101J	CHIP C 100PF J		C224			CK73GB1E105K	CHIP C 1.0UF K	
C123			CK73GB1H472K	CHIP C 4700PF K		C225			CK73GB1H104K	CHIP C 0.10UF K	
C125			CK73GB1H472K	CHIP C 4700PF K		C226			CK73FB0J106K	CHIP C 10UF K	
C127			CK73GB1H182K	CHIP C 1800PF K		C227			CK73GB1H102K	CHIP C 1000PF K	
C128			CC73GCH1H101J	CHIP C 100PF J		C228			CK73GB1H104K	CHIP C 0.10UF K	
C130			CD04BD1H221M	ELECTRO 220UF 50WV		C229			CC73GCH1H101J	CHIP C 100PF J	
C131			CE32AU1C330M	CHIP EL 33UF 16WV		C230			CK73GB1E105K	CHIP C 1.0UF K	
C133			CD04BD1H221M	ELECTRO 220UF 50WV		C231			CK73GB1H104K	CHIP C 0.10UF K	
C134			CK73GB1H104K	CHIP C 0.10UF K		C233			CK73GB1H103K	CHIP C 0.010UF K	
C137,138			CK73GB1H102K	CHIP C 1000PF K		C234,235			CK73GB1H104K	CHIP C 0.10UF K	
C139,140			CE32AU1C330M	CHIP EL 33UF 16WV		C236			C90-4120-05	ELECTRO 470UF 35WV	
C141			CK73GB1H102K	CHIP C 1000PF K		C237			CK73GB1H104K	CHIP C 0.10UF K	
C144			CE32AU1C330M	CHIP EL 33UF 16WV		C238			CK73GB1H102K	CHIP C 1000PF K	
C145			CK73GB1H182K	CHIP C 1800PF K		C239			C92-0777-05	ELECTRO 1000UF 25WV	
C146			CK73GB1H104K	CHIP C 0.10UF K		C241			CK73GB1H103K	CHIP C 0.010UF K	
C152			CK73GB1H102K	CHIP C 1000PF K		C243			CK73GB1H103K	CHIP C 0.010UF K	
C155			CC73GCH1H181J	CHIP C 180PF J		C244			CK73GB1H104K	CHIP C 0.10UF K	
C157			CE32AU1C330M	CHIP EL 33UF 16WV		C245			CK73FB0J106K	CHIP C 10UF K	
C159			CK73GB1H102K	CHIP C 1000PF K		C246,247			CK73GB1H102K	CHIP C 1000PF K	
C161			CK73GB1H102K	CHIP C 1000PF K		C248,249			CK73GB1H104K	CHIP C 0.10UF K	
C162			CE32AU1C330M	CHIP EL 33UF 16WV		C250			CK73FB0J106K	CHIP C 10UF K	

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Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C251			CK73GB1H102K	CHIP C 1000PF K		C357			CK73GB1H103K	CHIP C 0.010UF K	
C252			CK73FBOJ106K	CHIP C 10UF K		C358			CK73GB1H102K	CHIP C 1000PF K	
C253-255			CK73GB1H103K	CHIP C 0.010UF K		C359			CC73GCH1H101J	CHIP C 100PF J	
C256			CK73GB1H104K	CHIP C 0.10UF K		C360			CK73GB1H102K	CHIP C 1000PF K	
C257			CK73FBOJ106K	CHIP C 10UF K		C361			CK73GB1H103K	CHIP C 0.010UF K	
C258			CK73GB1H103K	CHIP C 0.010UF K		C362			CK73GB1H102K	CHIP C 1000PF K	
C262			CK73FBOJ106K	CHIP C 10UF K		C363			CC73GCH1H101J	CHIP C 100PF J	
C263			CK73GB1H102K	CHIP C 1000PF K		C364			CK73GB1H102K	CHIP C 1000PF K	
C265			CK73GB1H104K	CHIP C 0.10UF K		C365			CK73GB1H103K	CHIP C 0.010UF K	
C266-270			CK73GB1H103K	CHIP C 0.010UF K		C366-368			CK73GB1H102K	CHIP C 1000PF K	
C271			CK73FBOJ106K	CHIP C 10UF K		C369			CK73GB1H103K	CHIP C 0.010UF K	
C272,273			CK73GB1H103K	CHIP C 0.010UF K		C370-372			CK73GB1H102K	CHIP C 1000PF K	
C274			CK73GB1H472K	CHIP C 4700PF K		C373			CC73GCH1H101J	CHIP C 100PF J	
C275			CC73GCH1H120J	CHIP C 12PF J		C374			CK73GB1H103K	CHIP C 0.010UF K	
C276			CC73GCH1H100D	CHIP C 10PF D		C375,376			CK73GB1H102K	CHIP C 1000PF K	
C277			CK73GB1H103K	CHIP C 0.010UF K		C377			CC73GCH1H101J	CHIP C 100PF J	
C278			CK73FBOJ106K	CHIP C 10UF K		C379,380			CK73GB1H102K	CHIP C 1000PF K	
C279			CK73GB1H103K	CHIP C 0.010UF K		C381			CC73GCH1H101J	CHIP C 100PF J	
C280			CC73GCH1H100D	CHIP C 10PF D		C382			CK73GB1H103K	CHIP C 0.010UF K	
C281			CC73GCH1H150J	CHIP C 15PF J		C383,384			CK73GB1H102K	CHIP C 1000PF K	
C282			CK73GB1H103K	CHIP C 0.010UF K		C385			CC73GCH1H101J	CHIP C 100PF J	
C283			CK73GB1H104K	CHIP C 0.10UF K		C386,387			CK73GB1H102K	CHIP C 1000PF K	
C284-288			CK73GB1H103K	CHIP C 0.010UF K		C388			CC73GCH1H101J	CHIP C 100PF J	
C289			CK73GB1H102K	CHIP C 1000PF K		C389,390			CK73GB1H102K	CHIP C 1000PF K	
C290-297			CK73GB1H103K	CHIP C 0.010UF K		C394			C92-0905-05	OS-CON 47UF 35WV	
C299,300			CK73GB1H103K	CHIP C 0.010UF K		C395			CK73GB1H103K	CHIP C 0.010UF K	
C302			CK73GB1H103K	CHIP C 0.010UF K		C396-399			CK73GB1H102K	CHIP C 1000PF K	
C304			CC73GCH1H101J	CHIP C 100PF J		C400,401			CE32AU1C330M	CHIP EL 33UF 16WV	
C305,306			CK73GB1H102K	CHIP C 1000PF K		C403			CK73GB1E105K	CHIP C 1.0UF K	
C307-310			CC73GCH1H101J	CHIP C 100PF J		C404			CK73FBOJ106K	CHIP C 10UF K	
C311,312			CK73GB1H102K	CHIP C 1000PF K		C405,406			CC73GCH1H101J	CHIP C 100PF J	
C313			CC73GCH1H101J	CHIP C 100PF J		C407			CK73GB1H102K	CHIP C 1000PF K	
C314			CK73GB1H102K	CHIP C 1000PF K		C408-410			CK73GB1E105K	CHIP C 1.0UF K	
C315			CC73GCH1H101J	CHIP C 100PF J		C413			CK73GB1H104K	CHIP C 0.10UF K	
C316			CK73GB1H102K	CHIP C 1000PF K		C414			CK73GB1H103K	CHIP C 0.010UF K	
C317			CK73GB1H103K	CHIP C 0.010UF K		C415			CK73GB1H104K	CHIP C 0.10UF K	
C318			CC73GCH1H101J	CHIP C 100PF J		C416			CK73GB1H103K	CHIP C 0.010UF K	
C319			CK73GB1H102K	CHIP C 1000PF K		C417			CK73GB1E105K	CHIP C 1.0UF K	
C320			CK73GB1H103K	CHIP C 0.010UF K		C418-420			CK73GB1H102K	CHIP C 1000PF K	
C321			CC73GCH1H101J	CHIP C 100PF J		C421			CC73GCH1H101J	CHIP C 100PF J	
C322,323			CK73GB1H102K	CHIP C 1000PF K		C422-424			CK73GB1H102K	CHIP C 1000PF K	
C324			CK73GB1H103K	CHIP C 0.010UF K		C425,426			CC73GCH1H101J	CHIP C 100PF J	
C325			CC73GCH1H101J	CHIP C 100PF J		C427-435			CK73GB1H102K	CHIP C 1000PF K	
C326,327			CK73GB1H102K	CHIP C 1000PF K		C436			CK73GB1E105K	CHIP C 1.0UF K	
C328			CK73GB1H103K	CHIP C 0.010UF K		C437,438			CC73GCH1H101J	CHIP C 100PF J	
C329-331			CK73GB1H102K	CHIP C 1000PF K		C440			CK73GB1H102K	CHIP C 1000PF K	
C332			CK73GB1H103K	CHIP C 0.010UF K		C442			CC73GCH1H101J	CHIP C 100PF J	
C333-339			CK73GB1H102K	CHIP C 1000PF K		C444			CK73GB1H102K	CHIP C 1000PF K	
C340			CK73GB1H103K	CHIP C 0.010UF K		C445			CK73GB1H104K	CHIP C 0.10UF K	
C342,343			CK73GB1H102K	CHIP C 1000PF K		C446			CC73GCH1H391J	CHIP C 390PF J	
C344			CK73GB1H103K	CHIP C 0.010UF K		C447			CC73GCH1H101J	CHIP C 100PF J	
C345			CK73GB1H104K	CHIP C 0.10UF K		C448,449			CK73GB1H102K	CHIP C 1000PF K	
C346,347			CK73GB1H102K	CHIP C 1000PF K		C450			CC73GCH1H101J	CHIP C 100PF J	
C348			CK73GB1H103K	CHIP C 0.010UF K		C452,453			CK73GB1H102K	CHIP C 1000PF K	
C350			CK73GB1H102K	CHIP C 1000PF K		C456,457			CK73GB1H102K	CHIP C 1000PF K	
C351			CK73GB1H103K	CHIP C 0.010UF K		C463			CK73GB1H104K	CHIP C 0.10UF K	
C352,353			CK73GB1H102K	CHIP C 1000PF K		C467,468			CK73GB1H102K	CHIP C 1000PF K	
C354			CK73GB1H103K	CHIP C 0.010UF K		C469,470			CC73GCH1H101J	CHIP C 100PF J	
C355			CC73GCH1H101J	CHIP C 100PF J		C471			CK73GB1H102K	CHIP C 1000PF K	
C356			CK73GB1H102K	CHIP C 1000PF K		C473-475			CK73GB1H102K	CHIP C 1000PF K	

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Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C477			CK73GB1E105K	CHIP C 1.0UF K		R92			RK73GB2A562J	CHIP R 5.6K J 1/10W	
C499			C92-0905-05	OS-CON 47UF 35WV		R93,94			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C500			CK73GB1H104K	CHIP C 0.10UF K		R95			RK73GB2A470J	CHIP R 47 J 1/10W	
C510			CK73FB0J106K	CHIP C 10UF K		R96			RK73GB2A223J	CHIP R 22K J 1/10W	
CN1-3			E40-6656-05	PIN ASSY		R98			RK73GB2A103J	CHIP R 10K J 1/10W	
CN4			E41-2673-05	PIN ASSY		R100			RK73GB2A473J	CHIP R 47K J 1/10W	
CN56,57			E40-6656-05	PIN ASSY		R101			RK73GB2A000J	CHIP R 0.0 J 1/10W	
CN58			E40-5960-05	PIN ASSY		R102			RK73GB2A123J	CHIP R 12K J 1/10W	
CN59			E40-6102-05	PIN ASSY		R103-105			RK73GB2A473J	CHIP R 47K J 1/10W	
CN60			E41-2735-05	PIN ASSY		R106-108			RK73GB2A000J	CHIP R 0.0 J 1/10W	
F1,2			F53-0315-05	FUSE (250MA)		R109			RK73GB2A153J	CHIP R 15K J 1/10W	
F3		*	F53-0328-15	FUSE (5A)		R111			RK73GB2A823J	CHIP R 82K J 1/10W	
L3-14			L92-0447-05	BEADS CORE		R112			RK73GB2A123J	CHIP R 12K J 1/10W	
L15			L33-1476-05	SMALL FIXED INDUCTOR		R113			RK73GB2A823J	CHIP R 82K J 1/10W	
L16			L33-1475-05	SMALL FIXED INDUCTOR		R114			RK73GB2A223J	CHIP R 22K J 1/10W	
L17,18			L92-0447-05	BEADS CORE		R115			RK73GB2A154J	CHIP R 150K J 1/10W	
L19			L33-1475-05	SMALL FIXED INDUCTOR		R116			RK73GB2A223J	CHIP R 22K J 1/10W	
L20-22			L92-0447-05	BEADS CORE		R127			RK73GB2A473J	CHIP R 47K J 1/10W	
L32-40			L92-0447-05	BEADS CORE		R128-130			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L43			L92-0447-05	BEADS CORE		R131-133			RK73GB2A473J	CHIP R 47K J 1/10W	
L44-49			L92-0467-05	CHIP FERRITE		R135			RK73GB2A000J	CHIP R 0.0 J 1/10W	
X1			L77-1984-05	CRYSTAL RESONATOR (14.7456MHZ)		R137			RK73GB2A102J	CHIP R 1.0K J 1/10W	
X2			L77-1987-05	CRYSTAL RESONATOR (16.515072MHZ)		R138			RK73GB2A473J	CHIP R 47K J 1/10W	
CP8			RK75GB1JR00	CHIP-COM 0.00 1/16W		R141-144			RK73GB2A000J	CHIP R 0.0 J 1/10W	
CP10			RK75GB1JR00	CHIP-COM 0.00 1/16W		R145			RK73GB2A104J	CHIP R 100K J 1/10W	
CP13			RK75GB1JR00	CHIP-COM 0.00 1/16W		R146-148			RK73GB2A000J	CHIP R 0.0 J 1/10W	
CP19			RK75GB1JR00	CHIP-COM 0.00 1/16W		R149			RK73GB2A333J	CHIP R 33K J 1/10W	
CP25,26			RK75GB1JR00	CHIP-COM 0.00 1/16W		R150			RK73GB2A563J	CHIP R 56K J 1/10W	
R1,2			RK73GB2A000J	CHIP R 0.0 J 1/10W		R151			RK73GB2A124J	CHIP R 120K J 1/10W	
R6			RK73GB2A101J	CHIP R 100 J 1/10W		R152			RK73GB2A104J	CHIP R 100K J 1/10W	
R7-17			RK73GB2A000J	CHIP R 0.0 J 1/10W		R153			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R18,19			RK73GB2A101J	CHIP R 100 J 1/10W		R154,155			RK73GB2A333J	CHIP R 33K J 1/10W	
R21-45			RK73GB2A000J	CHIP R 0.0 J 1/10W		R156,157			RK73GH2A104D	CHIP R 100K D 1/10W	
R47-49			RK73GB2A000J	CHIP R 0.0 J 1/10W		R158			RK73GB2A333J	CHIP R 33K J 1/10W	
R51-61			RK73GB2A000J	CHIP R 0.0 J 1/10W		R159			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R62			RK73GB2A101J	CHIP R 100 J 1/10W		R160,161			RK73GB2A563J	CHIP R 56K J 1/10W	
R63,64			RK73GB2A332J	CHIP R 3.3K J 1/10W		R162			RK73GB2A224J	CHIP R 220K J 1/10W	
R65			RK73GB2A123J	CHIP R 12K J 1/10W		R163			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R66			RK73GB2A683J	CHIP R 68K J 1/10W		R165			RK73GB2A104J	CHIP R 100K J 1/10W	
R67			RK73GH2A822D	CHIP R 8.2K D 1/10W		R166			RK73GB2A333J	CHIP R 33K J 1/10W	
R68			RK73GH2A332D	CHIP R 3.3K D 1/10W		R167			RK73GB2A473J	CHIP R 47K J 1/10W	
R69,70			RK73GB2A000J	CHIP R 0.0 J 1/10W		R168			RK73GB2A563J	CHIP R 56K J 1/10W	
R71			RK73GH2A473D	CHIP R 47K D 1/10W		R169			RK73GB2A333J	CHIP R 33K J 1/10W	
R72-76			RK73GB2A000J	CHIP R 0.0 J 1/10W		R171			RK73GB2A183J	CHIP R 18K J 1/10W	
R77			RK73GH2A104D	CHIP R 100K D 1/10W		R172,173			RK73GB2A473J	CHIP R 47K J 1/10W	
R78			RK73GB2A104J	CHIP R 100K J 1/10W		R174			RK73GB2A683J	CHIP R 68K J 1/10W	
R79			RK73GH2A332D	CHIP R 3.3K D 1/10W		R175			RK73GB2A393J	CHIP R 39K J 1/10W	
R80			RK73GB2A123J	CHIP R 12K J 1/10W		R176			RK73GB2A473J	CHIP R 47K J 1/10W	
R81,82			RK73GB2A563J	CHIP R 56K J 1/10W		R177,178			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R83			RK73GB2A124J	CHIP R 120K J 1/10W		R179			RK73GB2A473J	CHIP R 47K J 1/10W	
R84			RK73GB2A473J	CHIP R 47K J 1/10W		R180			RK73GB2A223J	CHIP R 22K J 1/10W	
R85			RK73GB2A000J	CHIP R 0.0 J 1/10W		R181,182			RK73GB2A103J	CHIP R 10K J 1/10W	
R86			RK73GB2A473J	CHIP R 47K J 1/10W		R183			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R87			RK73GB2A223J	CHIP R 22K J 1/10W		R184			RK73GB2A473J	CHIP R 47K J 1/10W	
R88			RK73GB2A000J	CHIP R 0.0 J 1/10W		R185			RK73GB2A103J	CHIP R 10K J 1/10W	
R89			RK73GB2A103J	CHIP R 10K J 1/10W		R186			RK73GB2A563J	CHIP R 56K J 1/10W	
R90			RK73GB2A153J	CHIP R 15K J 1/10W		R187			RK73GB2A223J	CHIP R 22K J 1/10W	
R91			RK73GB2A472J	CHIP R 4.7K J 1/10W		R190			RK73GB2A393J	CHIP R 39K J 1/10W	
						R191			RK73GB2A000J	CHIP R 0.0 J 1/10W	
						R192			RK73GB2A154J	CHIP R 150K J 1/10W	

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Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R193			RK73GB2A103J	CHIP R 10K J 1/10W		R358			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R194			RK73GB2A473J	CHIP R 47K J 1/10W		R359			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R195,196			RK73GB2A000J	CHIP R 0.0 J 1/10W		R360			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R197			RK73GB2A103J	CHIP R 10K J 1/10W		R361-377			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R198			RK73GB2A473J	CHIP R 47K J 1/10W		R378,379			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R199			RK73GB2A103J	CHIP R 10K J 1/10W		R380			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R200,201			RK73GB2A000J	CHIP R 0.0 J 1/10W		R389-396			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R202			RK73GB2A473J	CHIP R 47K J 1/10W		R398-404			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R203			RK73GB2A104J	CHIP R 100K J 1/10W		R406-409			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R204			RK73GB2A473J	CHIP R 47K J 1/10W		R410			RK73GB2A684J	CHIP R 680K J 1/10W	
R205			RK73GB2A104J	CHIP R 100K J 1/10W		R411			RK73GB2A224J	CHIP R 220K J 1/10W	
R206			RK73GB2A122J	CHIP R 1.2K J 1/10W		R412			RK73GB2A103J	CHIP R 10K J 1/10W	
R207,208			RK73GB2A473J	CHIP R 47K J 1/10W		R413			RK73GB2A104J	CHIP R 100K J 1/10W	
R209			RK73GB2A103J	CHIP R 10K J 1/10W		R414			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R210			RK73GB2A000J	CHIP R 0.0 J 1/10W		R415-418			RK73GB2A104J	CHIP R 100K J 1/10W	
R211,212			RK73GB2A473J	CHIP R 47K J 1/10W		R419,420			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R213			RK73GB2A102J	CHIP R 1.0K J 1/10W		R426			RS14KB3D220J	FL-PROOF RS 22 J 2W	
R214			RK73GB2A824J	CHIP R 820K J 1/10W		R427			RK73GB2A223J	CHIP R 22K J 1/10W	
R215			RK73GB2A473J	CHIP R 47K J 1/10W		R428-430			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R216,217			RK73GB2A000J	CHIP R 0.0 J 1/10W		R432			RK73GB2A470J	CHIP R 47 J 1/10W	
R218,219			RK73GB2A473J	CHIP R 47K J 1/10W		R433			RK73GB2A473J	CHIP R 47K J 1/10W	
R220,221			RK73GB2A000J	CHIP R 0.0 J 1/10W		R434			RK73GB2A470J	CHIP R 47 J 1/10W	
R222			RK73GB2A473J	CHIP R 47K J 1/10W		R435			RK73GB2A473J	CHIP R 47K J 1/10W	
R223			RK73GB2A103J	CHIP R 10K J 1/10W		R436-446			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R224			RK73GB2A222J	CHIP R 2.2K J 1/10W		R448-454			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R225			RK73GB2A103J	CHIP R 10K J 1/10W		R455			RK73GB2A104J	CHIP R 100K J 1/10W	
R226			RK73GB2A822J	CHIP R 8.2K J 1/10W		R457			RK73GB2A473J	CHIP R 47K J 1/10W	
R228,229			RK73GB2A824J	CHIP R 820K J 1/10W		R458,459			RK73GB2A104J	CHIP R 100K J 1/10W	
R230,231			RK73GB2A473J	CHIP R 47K J 1/10W		R460,461			RK73GB2A103J	CHIP R 10K J 1/10W	
R232			RK73GB2A102J	CHIP R 1.0K J 1/10W		R467,468			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R233			RK73GB2A000J	CHIP R 0.0 J 1/10W		R469			RK73GB2A103J	CHIP R 10K J 1/10W	
R234,235			RK73GB2A473J	CHIP R 47K J 1/10W		R470			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R237			RK73GB2A473J	CHIP R 47K J 1/10W		R471-473			RK73GB2A104J	CHIP R 100K J 1/10W	
R240-243			RK73GB2A473J	CHIP R 47K J 1/10W		R474			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R245,246			RK73GB2A472J	CHIP R 4.7K J 1/10W		R475			RK73GB2A104J	CHIP R 100K J 1/10W	
R247			RK73GB2A473J	CHIP R 47K J 1/10W		R477			RK73GB2A104J	CHIP R 100K J 1/10W	
R249,250			RK73GB2A000J	CHIP R 0.0 J 1/10W		R478			RK73GB2A103J	CHIP R 10K J 1/10W	
R251			RK73GB2A473J	CHIP R 47K J 1/10W		R479			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R254			RK73GB2A473J	CHIP R 47K J 1/10W		R482			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R261,262			RK73GB2A473J	CHIP R 47K J 1/10W		R484			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R267-271			RK73GB2A473J	CHIP R 47K J 1/10W		R491-495			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R273			RK73GB2A473J	CHIP R 47K J 1/10W		R501			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R275			RK73GB2A473J	CHIP R 47K J 1/10W		R502			RK73GB2A183J	CHIP R 18K J 1/10W	
R277			RK73GB2A473J	CHIP R 47K J 1/10W		R507-510			RK73GB2A183J	CHIP R 18K J 1/10W	
R279			RK73GB2A103J	CHIP R 10K J 1/10W		R511-515			RK73GB2A123J	CHIP R 12K J 1/10W	
R281			RK73GB2A103J	CHIP R 10K J 1/10W		R522,523			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R283			RK73GB2A000J	CHIP R 0.0 J 1/10W		R524,525			RK73GB2A473J	CHIP R 47K J 1/10W	
R286-288			RK73GB2A000J	CHIP R 0.0 J 1/10W		R526,527			RK73GB2A121J	CHIP R 120 J 1/10W	
R289			RK73GB2A473J	CHIP R 47K J 1/10W		R528-535			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R290			RK73GB2A000J	CHIP R 0.0 J 1/10W		R536			RK73GB2A104J	CHIP R 100K J 1/10W	
R292-294			RK73GB2A000J	CHIP R 0.0 J 1/10W		R540			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R296,297			RK73GB2A473J	CHIP R 47K J 1/10W		R541			RK73GB2A123J	CHIP R 12K J 1/10W	
R299,300			RK73GB2A103J	CHIP R 10K J 1/10W		R552			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R301,302			RK73GB2A104J	CHIP R 100K J 1/10W		D1,2			CMS05-Q	DIODE	
R303-315			RK73GB2A473J	CHIP R 47K J 1/10W		D3,4			DA204U	DIODE	
R316-338			RK73GB2A000J	CHIP R 0.0 J 1/10W		D5			1SS355	DIODE	
R340			RK73GB2A102J	CHIP R 1.0K J 1/10W		D6	*		Q2DZ18F-X	ZENER DIODE	
R342-351			RK73GB2A102J	CHIP R 1.0K J 1/10W		D7-11			DA204U	DIODE	
R352			RK73GB2A471J	CHIP R 470 J 1/10W		D12			1SS355	DIODE	
R353-357			RK73GB2A102J	CHIP R 1.0K J 1/10W							

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PARTS LIST / 零件表

CONTROL UNIT (X53-4132-71)

CONTROL UNIT (X53-4140-10)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination	
D13		*	02D218F-X	ZENER DIODE		Q13			2SD2114K(W)	TRANSISTOR		
D14-18			DA204U	DIODE		Q14			2SC4116(Y)F	TRANSISTOR		
D20			DA204U	DIODE		Q15			2SA1586(Y)F	TRANSISTOR		
D23			DA204U	DIODE		Q16			2SC4116(Y)F	TRANSISTOR		
D24			SMD185F-2	VARISTOR		Q17			2SA1586(Y)F	TRANSISTOR		
D25			MINISMDC020F	VARISTOR		Q18			2SK1830F	FET		
D26			1SS388F	DIODE		Q19			HN1L02FU(F)	FET		
D28			1SS355	DIODE		Q20			2SA1955A-F	TRANSISTOR		
D29		*	02D218F-X	ZENER DIODE		Q21			RT1N441M-T111	TRANSISTOR		
D30			1SS355	DIODE		Q22			2SA1955A-F	TRANSISTOR		
D31		*	02D218F-X	ZENER DIODE		Q23			RT1N441M-T111	TRANSISTOR		
D32			1SS355	DIODE		Q25,26			RT1N441M-T111	TRANSISTOR		
D33		*	02D218F-X	ZENER DIODE		Q27-29			2SD2114K(W)	TRANSISTOR		
D36,37			DA204U	DIODE								
D38,39			1SS388F	DIODE								
IC1			BU4094BCFV	MOS-IC		CONTROL UNIT (X53-4140-10)						
IC2,3			BU4053BCFV	MOS-IC		C302			CC73HCH1H101J	CHIP C	100PF	J
IC4			AK4550VTP	MOS-IC		C303			CK73HB1H102K	CHIP C	1000PF	K
IC5			NJM2732V	BI-POLAR IC		C305			CK73HB1A104K	CHIP C	0.10UF	K
IC6			XC6209B332PR	MOS-IC		C306			CK73HB1H102K	CHIP C	1000PF	K
IC7			TA75S01F-F	MOS-IC		C308,309			CK73HB1H102K	CHIP C	1000PF	K
IC8			M62364FP-F	MOS-IC		C311			CK73HB1A104K	CHIP C	0.10UF	K
IC9		*	NJM2734V	BI-POLAR IC		C312-317			CK73HB1H102K	CHIP C	1000PF	K
IC10,11			NJM2340RB1	MOS-IC		C320			CC73HCH1H101J	CHIP C	100PF	J
IC12			NJM2732V	BI-POLAR IC		C322,323			CK73HB1H102K	CHIP C	1000PF	K
IC14			BU4053BCFV	MOS-IC		C324			CC73HCH1H101J	CHIP C	100PF	J
IC15			BA33BC0FP	MOS-IC		C326-329			CK73HB1H102K	CHIP C	1000PF	K
IC16			XC6209B502PR	MOS-IC		C331			CK73HB1H102K	CHIP C	1000PF	K
IC17			Note 1 (BGA)	ROM IC		C333-335			CK73HB1H102K	CHIP C	1000PF	K
IC18			XC6201P182MR	MOS-IC		C337			CK73HB1H102K	CHIP C	1000PF	K
IC19			NJM2732V	BI-POLAR IC		C339			CC73HCH1H101J	CHIP C	100PF	J
IC20,21		*	NJM2734V	BI-POLAR IC		C341,342			CK73HB1H102K	CHIP C	1000PF	K
IC22			BU4094BCFV	MOS-IC		C343			CC73HCH1H101J	CHIP C	100PF	J
IC23			TC7SH00FU-F	MOS-IC		C344			CK73HB1H102K	CHIP C	1000PF	K
IC25			TC7S66FUF	MOS-IC		C345			CC73HCH1H101J	CHIP C	100PF	J
IC26		*	NJM2734V	BI-POLAR IC		C346-348			CK73HB1H102K	CHIP C	1000PF	K
IC27			TC7SET126FU-F	MOS-IC		C349			CC73HCH1H101J	CHIP C	100PF	J
IC28			TC7SH126FU-F	MOS-IC		C350			CK73HB1H102K	CHIP C	1000PF	K
IC29	2C		LA4425A	MOS-IC		C352			CK73HB1H102K	CHIP C	1000PF	K
IC30			TC7SH00FU-F	MOS-IC		C353			CC73HCH1H101J	CHIP C	100PF	J
IC31			TC7MH4040FK-F	MOS-IC		C354			CK73HB1H102K	CHIP C	1000PF	K
IC32,33			TC7SH126FU-F	MOS-IC		C355			CK73HB1E103K	CHIP C	0.010UF	K
IC34			3625MGP396GP	MICROPROCESSOR IC		C356			CC73HCH1H101J	CHIP C	100PF	J
IC35			S24CS02AFJTBG	ROM IC		C357,358			CK73HB1H102K	CHIP C	1000PF	K
IC36			TC7MET541AFK	MOS-IC		C359,360			CK73HB1A104K	CHIP C	0.10UF	K
IC37			320VC5402PGE	MICROPROCESSOR IC		C361			CK73HB1H102K	CHIP C	1000PF	K
IC38			TC7SET08FU-F	MOS-IC		C362			CK73HB1E103K	CHIP C	0.010UF	K
IC39			TC7SH125FU-F	MOS-IC		C364-366			CK73HB1H102K	CHIP C	1000PF	K
IC40			TC7SH126FU-F	MOS-IC		C369,370			CK73HB1H102K	CHIP C	1000PF	K
IC41			TC7SH08FU-F	MOS-IC		C371			CK73HB1A104K	CHIP C	0.10UF	K
IC50			TC7SH08FU-F	MOS-IC		C373,374			CK73HB1H102K	CHIP C	1000PF	K
Q1		*	RT1N141M-T111	TRANSISTOR		C376-378			CK73HB1H102K	CHIP C	1000PF	K
Q2,3			2SJ506-E(S)	FET		C379			CK73HB1A104K	CHIP C	0.10UF	K
Q4,5		*	2SC4738F	TRANSISTOR		C380,381			CK73HB1H102K	CHIP C	1000PF	K
Q6			DTC363EU	DIGITAL TRANSISTOR		C383-386			CK73HB1H102K	CHIP C	1000PF	K
Q7,8		*	RT1N141M-T111	TRANSISTOR		C387			CK73GB1H103K	CHIP C	0.010UF	K
Q9			2SJ506-E(S)	FET		C388-390			CK73HB1H102K	CHIP C	1000PF	K
Q10		*	2SC4738F	TRANSISTOR		C391			CK73GB1E105K	CHIP C	1.0UF	K
Q11			2SD2114K(W)	TRANSISTOR		C393-395			CK73HB1H102K	CHIP C	1000PF	K
Q12		*	2SC4738F	TRANSISTOR								

PARTS LIST / 零件表

CONTROL UNIT (X53-4140-10)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
C396			CK73GB1H103K	CHIP C 0.010UF K		C507			CK73HB1E103K	CHIP C 0.010UF K	
C397,398			CK73HB1H102K	CHIP C 1000PF K		C508			CK73HB1A104K	CHIP C 0.10UF K	
C399			CK73GB1H104K	CHIP C 0.10UF K		C509			CK73GB1E105K	CHIP C 1.0UF K	
C401			CC73HCH1H101J	CHIP C 100PF J		C515			CK73GB1E105K	CHIP C 1.0UF K	
C402			CK73HB1H102K	CHIP C 1000PF K		C516			CK73HB1H102K	CHIP C 1000PF K	
C403			CC73HCH1H101J	CHIP C 100PF J		C517			CK73HB1A104K	CHIP C 0.10UF K	
C405,406			CK73HB1H102K	CHIP C 1000PF K		C519			CK73HB1C473K	CHIP C 0.047UF K	
C409			CK73HB1H102K	CHIP C 1000PF K		C520			CK73GB1E105K	CHIP C 1.0UF K	
C410			CC73HCH1H101J	CHIP C 100PF J		C521			CK73HB1E103K	CHIP C 0.010UF K	
C412-415			CK73HB1H102K	CHIP C 1000PF K		C522-525			CK73HB1A104K	CHIP C 0.10UF K	
C416			CC73HCH1H101J	CHIP C 100PF J		C526-529			CK73FB0J106K	CHIP C 10UF K	
C417,418			CE32AU1C330M	CHIP EL 33UF 16WW		C531			CK73HB1H102K	CHIP C 1000PF K	
C419			CC73HCH1H101J	CHIP C 100PF J		C532			CK73HB1A104K	CHIP C 0.10UF K	
C420			CK73HB1A104K	CHIP C 0.10UF K		C533-536			CK73HB1H102K	CHIP C 1000PF K	
C421			CK73HB1H102K	CHIP C 1000PF K		C537			CK73FB0J106K	CHIP C 10UF K	
C422			CE32AU1C330M	CHIP EL 33UF 16WW		C538,539			CK73HB1H102K	CHIP C 1000PF K	
C423			CC73HCH1H101J	CHIP C 100PF J		C543			CK73FB0J106K	CHIP C 10UF K	
C424			CK73HB1H102K	CHIP C 1000PF K		C544-546			CK73HB1H102K	CHIP C 1000PF K	
C426-430			CK73HB1H102K	CHIP C 1000PF K		C547			CK73FB0J106K	CHIP C 10UF K	
C432			CC73HCH1H101J	CHIP C 100PF J		C548			CK73HB1E103K	CHIP C 0.010UF K	
C433			CK73HB1H102K	CHIP C 1000PF K		C549			CC73HCH1H120G	CHIP C 12PF G	
C435-437			CK73HB1H102K	CHIP C 1000PF K		C550,551			CC73HCH1H100D	CHIP C 10PF D	
C438			CK73GB1H103K	CHIP C 0.010UF K		C552			CC73HCH1H150J	CHIP C 15PF J	
C439			CE32AU1C330M	CHIP EL 33UF 16WW		C553			CK73HB1E103K	CHIP C 0.010UF K	
C440-442			CK73HB1H102K	CHIP C 1000PF K		C557			CK73HB1H102K	CHIP C 1000PF K	
C443,444			CE32AU1C330M	CHIP EL 33UF 16WW		C565			CK73FB0J106K	CHIP C 10UF K	
C445			CK73HB1A104K	CHIP C 0.10UF K		C566			CK73HB1H102K	CHIP C 1000PF K	
C446			CK73FB1H102K	CHIP C 1000PF K		C567			CK73HB1E103K	CHIP C 0.010UF K	
C447			CK73HB1A104K	CHIP C 0.10UF K		C569			CE32AU1C330M	CHIP EL 33UF 16WW	
C448			CE32AU1C330M	CHIP EL 33UF 16WW		C570,571			CK73HB1H102K	CHIP C 1000PF K	
C449,450			CK73HB1A104K	CHIP C 0.10UF K		C572			CE32BM1E470M	CHIP EL 47UF 25WW	
C453			CK73GB1H103K	CHIP C 0.010UF K		C574			CK73HB1H102K	CHIP C 1000PF K	
C461			CK73GB1H103K	CHIP C 0.010UF K		C575-588			CK73HB1E103K	CHIP C 0.010UF K	
C462			CK73HB1E103K	CHIP C 0.010UF K		C590-601			CK73HB1E103K	CHIP C 0.010UF K	
C463			CC73HCH1H100D	CHIP C 10PF D		C700			CK73HB1E103K	CHIP C 0.010UF K	
C465			CK73GB1H103K	CHIP C 0.010UF K		C701			CK73HB1A104K	CHIP C 0.10UF K	
C466			CK73GB1H104K	CHIP C 0.10UF K		C702			CK73HB1H102K	CHIP C 1000PF K	
C467			CK73GB1H103K	CHIP C 0.010UF K		C703			CC73HCH1H150J	CHIP C 15PF J	
C468			CK73GB1H104K	CHIP C 0.10UF K		C704,705			CK73FB0J106K	CHIP C 10UF K	
C469			CC73GCH1H121J	CHIP C 120PF J		C706			CK73HB1H102K	CHIP C 1000PF K	
C471			CK73HB1H102K	CHIP C 1000PF K		C707			CC73HCH1H070D	CHIP C 7.0PF D	
C474			CK73HB1H392K	CHIP C 3900PF K		C708			CK73HB1A104K	CHIP C 0.10UF K	
C475			CK73FB0J106K	CHIP C 10UF K		C709			CK73FB0J106K	CHIP C 10UF K	
C476			CK73HB1A104K	CHIP C 0.10UF K		C710			CK73HB1E103K	CHIP C 0.010UF K	
C477			CC73GCH1H121J	CHIP C 120PF J		C711			CK73FB0J106K	CHIP C 10UF K	
C478			CK73HB1H102K	CHIP C 1000PF K		C712			CK73HB1H102K	CHIP C 1000PF K	
C479			CC73GCH1H121J	CHIP C 120PF J		C713			CK73HB1A104K	CHIP C 0.10UF K	
C480			CK73FB0J106K	CHIP C 10UF K		C714			CK73FB0J106K	CHIP C 10UF K	
C482			CK73HB1A104K	CHIP C 0.10UF K		C715			CK73HB1A104K	CHIP C 0.10UF K	
C484			CS77BA1C010M	CHIP TMTL 1.0UF 16WW		C716			CK73HB1H102K	CHIP C 1000PF K	
C485			CK73GB1H103K	CHIP C 0.010UF K		C717			CK73HB1A104K	CHIP C 0.10UF K	
C486			CC73GCH1H121J	CHIP C 120PF J		C718			CC73HCH1H070D	CHIP C 7.0PF D	
C487			CK73HB1H102K	CHIP C 1000PF K		C719			CK73FB0J106K	CHIP C 10UF K	
C491			CK73FB0J106K	CHIP C 10UF K		C720			CK73HB1A104K	CHIP C 0.10UF K	
C493,494			CK73HB1A104K	CHIP C 0.10UF K		C721			CC73HCH1H100D	CHIP C 10PF D	
C495			CK73GB1E105K	CHIP C 1.0UF K		C722,723			CK73HB1H102K	CHIP C 1000PF K	
C496			CK73HB1C822K	CHIP C 8200PF K		C724			CK73HB1A104K	CHIP C 0.10UF K	
C501			CK73HB1A104K	CHIP C 0.10UF K		C725			CK73HB1H102K	CHIP C 1000PF K	
C504			CK73HB1A104K	CHIP C 0.10UF K		C726			CK73FB0J106K	CHIP C 10UF K	
C506			CK73HB1H472K	CHIP C 4700PF K		C727			CC73HCH1H020B	CHIP C 2.0PF B	

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CONTROL UNIT (X53-4140-10)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C728			CK73HB1E103K	CHIP C 0.010UF K		J701			E58-0515-05	RECTANGULAR RECEPTACLE	
C729			CC73HCH1H020B	CHIP C 2.0PF B		J702,703			E58-0533-05	MODULAR JACK	
C730			CK73HB1A104K	CHIP C 0.10UF K		L300-307			L92-0447-05	BEADS CORE	
C732			CK73HB1H102K	CHIP C 1000PF K		L308,309			L41-8285-33	SMALL FIXED INDUCTOR (0.82UH)	
C733-741			CK73HB1A104K	CHIP C 0.10UF K		L310			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C742			CK73FB0J106K	CHIP C 10UF K		L311,312			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
C743,744			CK73HB1A104K	CHIP C 0.10UF K		L313-316			L92-0447-05	BEADS CORE	
C746-750			CK73GB1E105K	CHIP C 1.0UF K		L317,318			L33-1500-05	CHOKO COIL	
C751			CK73HB1E103K	CHIP C 0.010UF K		L319-325			L92-0447-05	BEADS CORE	
C754-758			CK73HB1A104K	CHIP C 0.10UF K		L326-329			L92-0467-05	CHIP FERRITE	
C767,768			CK73HB1H102K	CHIP C 1000PF K		X300			L77-1988-05	VCXO (12.288MHZ)	
C769			CK73FB0J106K	CHIP C 10UF K		X301			L77-1984-05	CRYSTAL RESONATOR (14.7456MHZ)	
C770-773			CK73HB1A104K	CHIP C 0.10UF K		X700			L77-1985-05	CRYSTAL RESONATOR (25.8048MHZ)	
C775			CK73HB1H102K	CHIP C 1000PF K		X701			L77-1802-05	CRYSTAL RESONATOR (32768HZ)	
C776-780			CK73HB1E103K	CHIP C 0.010UF K		X702			L77-1986-05	CRYSTAL RESONATOR (25MHZ)	
C781			CK73HB1A104K	CHIP C 0.10UF K		CP716			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C782			CC73HCH1H120G	CHIP C 12PF G		CP718			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C783			CC73HCH1H100D	CHIP C 10PF D		CP720			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C784,785			CK73HB1A104K	CHIP C 0.10UF K		CP737			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C786			CC73HCH1H150J	CHIP C 15PF J		CP739			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C787			CC73HCH1H100D	CHIP C 10PF D		CP743			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C788			CK73FB0J106K	CHIP C 10UF K		CP747			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C789-793			CK73HB1A104K	CHIP C 0.10UF K		CP750			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C794			CK73FB0J106K	CHIP C 10UF K		CP760			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C795			CK73HB1A104K	CHIP C 0.10UF K		CP762			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C796,797			CK73HB1E103K	CHIP C 0.010UF K		CP768			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C798			CK73HB1A104K	CHIP C 0.10UF K		CP775-778			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C799,800			CK73HB1E103K	CHIP C 0.010UF K		CP783-798			RK75HA1J390J	CHIP-COM 39 J 1/16W	
C801			CK73HB1H102K	CHIP C 1000PF K		CP807-811			RK75HA1J104J	CHIP-COM 100K J 1/16W	
C802,803			CK73HB1A104K	CHIP C 0.10UF K		CP813			RK75HA1J104J	CHIP-COM 100K J 1/16W	
C804			CK73FB0J106K	CHIP C 10UF K		CP814,815			RK75HA1JR00J	CHIP-COM 0.00 J 1/16W	
C805-807			CK73HB1E103K	CHIP C 0.010UF K		R300,301			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C808			CK73HB1H102K	CHIP C 1000PF K		R302			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C809			CK73HB1A104K	CHIP C 0.10UF K		R303			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C812			CK73HB1A104K	CHIP C 0.10UF K		R309			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C813-815			CK73HB1H102K	CHIP C 1000PF K		R311-317			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C816-818			CK73HB1A104K	CHIP C 0.10UF K		R318,319			RK73HB1J101J	CHIP R 100 J 1/16W	
C819			CK73HB1H102K	CHIP C 1000PF K		R320-337			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C820,821			CK73HB1A104K	CHIP C 0.10UF K		R339			RK73HB1J473J	CHIP R 47K J 1/16W	
C822			CK73HB1H102K	CHIP C 1000PF K		R340-350			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C825			CK73HB1H102K	CHIP C 1000PF K		R352-354			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C826,827			CC73HCH1H101J	CHIP C 100PF J		R356-360			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C828			CK73HB1H102K	CHIP C 1000PF K		R361			RK73GB2A104J	CHIP R 100K J 1/10W	
C829			CC73HCH1H101J	CHIP C 100PF J		R362			RK73GB2A681J	CHIP R 680 J 1/10W	
C830			CK73HB1H102K	CHIP C 1000PF K		R363-386			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C831			CC73HCH1H101J	CHIP C 100PF J		R387			RK73HB1J104J	CHIP R 100K J 1/16W	
C832			CK73HB1H102K	CHIP C 1000PF K		R388-390			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C833,834			CK73HB1A104K	CHIP C 0.10UF K		R391			RK73GB2A100J	CHIP R 10 J 1/10W	
C835-837			CK73HB1H102K	CHIP C 1000PF K		R392			RK73HB1J103J	CHIP R 10K J 1/16W	
C838,839			CC73HCH1H101J	CHIP C 100PF J		R393-397			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C841-848			CC73GCH1H470J	CHIP C 47PF J		R398			RK73HB1J104J	CHIP R 100K J 1/16W	
C850			CC73GCH1H470J	CHIP C 47PF J		R399			RK73HB1J151J	CHIP R 150 J 1/16W	
C851-869			CC73HCH1H470J	CHIP C 47PF J		R401			RK73HB1J000J	CHIP R 0.0 J 1/16W	
C870-873			CK73HB1H102K	CHIP C 1000PF K		R403			RK73GB2A000J	CHIP R 0.0 J 1/10W	
CN300			E04-0193-05	PIN SOCKET		R404,405			RK73HB1J000J	CHIP R 0.0 J 1/16W	
CN302			E04-0193-05	PIN SOCKET		R406			RK73GB2A000J	CHIP R 0.0 J 1/10W	
CN400-402			E40-6656-05	PIN ASSY		R408,409			RK73HB1J000J	CHIP R 0.0 J 1/16W	
CN713			E41-2263-05	PIN ASSY		R410			RK73GB2A103J	CHIP R 10K J 1/10W	
J700			E58-0516-05	MODULAR JACK		R411			RK73GB2A472J	CHIP R 4.7K J 1/10W	

PARTS LIST / 零件表

CONTROL UNIT (X53-4140-10)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
R413			RK73GB2A103J	CHIP R 10K J 1/10W		R560			RK73HB1J103J	CHIP R 10K J 1/16W	
R414			RK73HB1J000J	CHIP R 0.0 J 1/16W		R561			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R415			RK73HB1J100J	CHIP R 10 J 1/16W		R562			RK73HB1J103J	CHIP R 10K J 1/16W	
R416			RK73HB1J104J	CHIP R 100K J 1/16W		R564-566			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R417			RK73HB1J000J	CHIP R 0.0 J 1/16W		R567			RK73HB1J473J	CHIP R 47K J 1/16W	
R418,419			RK73GB2A104J	CHIP R 100K J 1/10W		R568			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R420			RK73HB1J000J	CHIP R 0.0 J 1/16W		R569			RK73HB1J224J	CHIP R 220K J 1/16W	
R421			RK73HB1J100J	CHIP R 10 J 1/16W		R570			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R423			RK73HB1J000J	CHIP R 0.0 J 1/16W		R573-576			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R424			RK73GB2A681J	CHIP R 680 J 1/10W		R577,578			RK73HB1J473J	CHIP R 47K J 1/16W	
R425			RK73HB1J000J	CHIP R 0.0 J 1/16W		R579			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R428			RK73GB2A100J	CHIP R 10 J 1/10W		R581			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R429			RK73GB2A471J	CHIP R 470 J 1/10W		R582			RK73HB1J473J	CHIP R 47K J 1/16W	
R431			RK73HB1J000J	CHIP R 0.0 J 1/16W		R583			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R432			RK73GB2A220J	CHIP R 22 J 1/10W		R584			RK73HB1J473J	CHIP R 47K J 1/16W	
R433			RK73HB1J105J	CHIP R 1.0M J 1/16W		R585,586			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R438			RK73GB2A100J	CHIP R 10 J 1/10W		R587			RK73HB1J473J	CHIP R 47K J 1/16W	
R439,440			RK73GB2A220J	CHIP R 22 J 1/10W		R588			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R441			RK73HB1J823J	CHIP R 82K J 1/16W		R589			RK73HB1J473J	CHIP R 47K J 1/16W	
R442			RK73HB1J683J	CHIP R 68K J 1/16W		R590			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R445			RK73HB1J393J	CHIP R 39K J 1/16W		R591			RK73HB1J223J	CHIP R 22K J 1/16W	
R446,447			RK73HB1J000J	CHIP R 0.0 J 1/16W		R592-600			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R448			RK73GB2A221J	CHIP R 220 J 1/10W		R602			RK73HB1J103J	CHIP R 10K J 1/16W	
R449			RK73HB1J683J	CHIP R 68K J 1/16W		R604			RK73HB1J103J	CHIP R 10K J 1/16W	
R451			RK73HB1J473J	CHIP R 47K J 1/16W		R605-610			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R452-454			RK73HB1J100J	CHIP R 10 J 1/16W		R612-616			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R457-461			RK73HB1J473J	CHIP R 47K J 1/16W		R620-623			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R464			RK73HB1J472J	CHIP R 4.7K J 1/16W		R624			RK73HB1J473J	CHIP R 47K J 1/16W	
R469			RK73HB1J470J	CHIP R 47 J 1/16W		R626			RK73HB1J473J	CHIP R 47K J 1/16W	
R470			RK73HB1J102J	CHIP R 1.0K J 1/16W		R627			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R474			RK73HB1J100J	CHIP R 10 J 1/16W		R629-631			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R478			RK73HB1J100J	CHIP R 10 J 1/16W		R632			RK73HB1J101J	CHIP R 100 J 1/16W	
R479			RK73HB1J102J	CHIP R 1.0K J 1/16W		R634			RK73HB1J473J	CHIP R 47K J 1/16W	
R480			RK73HB1J100J	CHIP R 10 J 1/16W		R635,636			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R481			RK73HB1J473J	CHIP R 47K J 1/16W		R637-640			RK73HB1J473J	CHIP R 47K J 1/16W	
R483			RK73HB1J104J	CHIP R 100K J 1/16W		R641			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R484			RK73HB1J000J	CHIP R 0.0 J 1/16W		R642			RK73HB1J101J	CHIP R 100 J 1/16W	
R485			RK73HB1J100J	CHIP R 10 J 1/16W		R643			RK73HB1J473J	CHIP R 47K J 1/16W	
R486-489			RK73HB1J000J	CHIP R 0.0 J 1/16W		R644			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R491-505			RK73HB1J000J	CHIP R 0.0 J 1/16W		R646			RK73HB1J473J	CHIP R 47K J 1/16W	
R516-518			RK73HB1J473J	CHIP R 47K J 1/16W		R648			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R521			RK73HB1J000J	CHIP R 0.0 J 1/16W		R649			RK73HB1J101J	CHIP R 100 J 1/16W	
R522			RK73HB1J473J	CHIP R 47K J 1/16W		R650			RK73HB1J473J	CHIP R 47K J 1/16W	
R526			RK73HB1J000J	CHIP R 0.0 J 1/16W		R651-653			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R527			RK73HB1J473J	CHIP R 47K J 1/16W		R656,657			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R528,529			RK73HB1J000J	CHIP R 0.0 J 1/16W		R660-664			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R530			RK73HB1J473J	CHIP R 47K J 1/16W		R667,668			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R531,532			RK73HB1J000J	CHIP R 0.0 J 1/16W		R672-674			RK73HB1J473J	CHIP R 47K J 1/16W	
R533,534			RK73HB1J473J	CHIP R 47K J 1/16W		R678,679			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R535-539			RK73HB1J000J	CHIP R 0.0 J 1/16W		R680			RK73HB1J473J	CHIP R 47K J 1/16W	
R540-542			RK73HB1J473J	CHIP R 47K J 1/16W		R685-687			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R543			RK73HB1J000J	CHIP R 0.0 J 1/16W		R690			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R546			RK73HB1J000J	CHIP R 0.0 J 1/16W		R700,701			RK73HB1J103J	CHIP R 10K J 1/16W	
R547,548			RK73HB1J473J	CHIP R 47K J 1/16W		R702,703			RK73HB1J473J	CHIP R 47K J 1/16W	
R549			RK73HB1J000J	CHIP R 0.0 J 1/16W		R709,710			RK73HB1J104J	CHIP R 100K J 1/16W	
R550			RK73HB1J473J	CHIP R 47K J 1/16W		R711			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R551,552			RK73HB1J000J	CHIP R 0.0 J 1/16W		R712-714			RK73HB1J100J	CHIP R 10 J 1/16W	
R553-555			RK73HB1J473J	CHIP R 47K J 1/16W		R715			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R556,557			RK73HB1J000J	CHIP R 0.0 J 1/16W		R716			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R559			RK73HB1J102J	CHIP R 1.0K J 1/16W		R718			RK73HB1J104J	CHIP R 100K J 1/16W	

NXR-800H

PARTS LIST / 零件表

CONTROL UNIT (X53-4140-10)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R719			RK73HB1J472J	CHIP R 4.7K J 1/16W		R870			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R720			RK73HB1J100J	CHIP R 10 J 1/16W		R871-873			RK73HB1J103J	CHIP R 10K J 1/16W	
R721			RK73GB2A000J	CHIP R 0.0 J 1/10W		R874			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R722			RK73HB1J472J	CHIP R 4.7K J 1/16W		R875,876			RK73GH2A24R9D	CHIP R 24.9 D 1/10W	
R725,726			RK73HB1J000J	CHIP R 0.0 J 1/16W		R877,878			RK73HB1J103J	CHIP R 10K J 1/16W	
R727			RK73HB1J103J	CHIP R 10K J 1/16W		R879			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R729,730			RK73HB1J000J	CHIP R 0.0 J 1/16W		R880,881			RK73HB1J104J	CHIP R 100K J 1/16W	
R731			RK73HB1J103J	CHIP R 10K J 1/16W		R883-885			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R732			RK73HB1J390J	CHIP R 39 J 1/16W		R886			RK73HB1J221J	CHIP R 220 J 1/16W	
R733			RK73HB1J104J	CHIP R 100K J 1/16W		R887			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R734			RK73HB1J102J	CHIP R 1.0K J 1/16W		R888			RK73HB1J221J	CHIP R 220 J 1/16W	
R735,736			RK73HB1J000J	CHIP R 0.0 J 1/16W		R889			RK73HB1J103J	CHIP R 10K J 1/16W	
R738			RK73HB1J104J	CHIP R 100K J 1/16W		R890			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R742			RK73HB1J104J	CHIP R 100K J 1/16W		R891			RK73HB1J104J	CHIP R 100K J 1/16W	
R743,744			RK73HB1J153J	CHIP R 15K J 1/16W		R892,893			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R745			RK73HB1J104J	CHIP R 100K J 1/16W		R894			RK73HB1J103J	CHIP R 10K J 1/16W	
R751			RK73HB1J000J	CHIP R 0.0 J 1/16W		R895			RK73HB1J151J	CHIP R 150 J 1/16W	
R754			RK73HB1J103J	CHIP R 10K J 1/16W		R896			RK73HB1J101J	CHIP R 100 J 1/16W	
R756			RK73HB1J000J	CHIP R 0.0 J 1/16W		R897			RK73HB1J104J	CHIP R 100K J 1/16W	
R758			RK73HB1J103J	CHIP R 10K J 1/16W		R902,903			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R759			RK73HB1J000J	CHIP R 0.0 J 1/16W		R907			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R760			RK73HB1J103J	CHIP R 10K J 1/16W		R909			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R761-765			RK73GB2A000J	CHIP R 0.0 J 1/10W		R910			RK73HB1J473J	CHIP R 47K J 1/16W	
R766			RK73HB1J000J	CHIP R 0.0 J 1/16W		R911			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R767			RK73HB1J102J	CHIP R 1.0K J 1/16W		R912			RK73HB1J473J	CHIP R 47K J 1/16W	
R768-770			RK73HB1J000J	CHIP R 0.0 J 1/16W		R913,914			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R772-777			RK73HB1J104J	CHIP R 100K J 1/16W		R915			RK73HB1J473J	CHIP R 47K J 1/16W	
R778			RK73HB1J000J	CHIP R 0.0 J 1/16W		R916-923			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R779			RK73HB1J104J	CHIP R 100K J 1/16W		R924			RK73HB1J104J	CHIP R 100K J 1/16W	
R780			RK73HB1J000J	CHIP R 0.0 J 1/16W		R926			RK73HB1J473J	CHIP R 47K J 1/16W	
R781-784			RK73HB1J104J	CHIP R 100K J 1/16W		R927-933			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R785			RK73HB1J272J	CHIP R 2.7K J 1/16W		R934,935			RK73HB1J474J	CHIP R 470K J 1/16W	
R786-788			RK73HB1J104J	CHIP R 100K J 1/16W		R936			RK73HB1J104J	CHIP R 100K J 1/16W	
R794			RK73HB1J104J	CHIP R 100K J 1/16W		R942			RK73HB1J104J	CHIP R 100K J 1/16W	
R796			RK73HB1J104J	CHIP R 100K J 1/16W		R943			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R799-803			RK73HB1J104J	CHIP R 100K J 1/16W		R945-950			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R805-808			RK73HB1J103J	CHIP R 10K J 1/16W		R951			RK73HB1J104J	CHIP R 100K J 1/16W	
R816			RK73HB1J105J	CHIP R 1.0M J 1/16W		R952,953			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R817			RK73HB1J821J	CHIP R 820 J 1/16W		R954-957			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R818			RK73HB1J104J	CHIP R 100K J 1/16W		R960			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R819			RK73GB2A000J	CHIP R 0.0 J 1/10W		S700		S79-0473-05		DIP SWITCHES	
R820			RK73HB1J103J	CHIP R 10K J 1/16W		D300		1SS388F		DIODE	
R821			RK73HB1J000J	CHIP R 0.0 J 1/16W		D701		1SS388F		DIODE	
R822			RK73HB1J103J	CHIP R 10K J 1/16W		D702		1SS355		DIODE	
R824			RK73HB1J103J	CHIP R 10K J 1/16W		IC300,301		TC7SET126FU-F		MOS-IC	
R826			RK73HB1J103J	CHIP R 10K J 1/16W		IC302		SN65HVD485EDR		MOS-IC	
R827			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC303		BU4829FVE		MOS-IC	
R828			RK73HB1J104J	CHIP R 100K J 1/16W		IC304		TC7SH125FU-F		MOS-IC	
R829			RK73HH1J113D	CHIP R 11K D 1/16W		IC305		XC6209B332PR		MOS-IC	
R830			RK73HB1J104J	CHIP R 100K J 1/16W		IC306		BA15BC0FP		MOS-IC	
R832			RK73HB1J104J	CHIP R 100K J 1/16W		IC307		XC6201P152PR		MOS-IC	
R833			RK73HB1J000J	CHIP R 0.0 J 1/16W		IC308		XC61CN2702N		MOS-IC	
R834			RK73HB1J104J	CHIP R 100K J 1/16W		IC309		AK4550VTP		MOS-IC	
R835			RK73HB1J000J	CHIP R 0.0 J 1/16W		IC312		ADCS7476AIMF		MOS-IC	
R837			RK73GH2A49R9D	CHIP R 49.9 D 1/10W		IC313		TC7WU04FK-F		MOS-IC	
R839			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC314		Note 1 (BGA)		ROM IC	
R840			RK73GH2A49R9D	CHIP R 49.9 D 1/10W		IC315		ADF4001BRUZ		MOS-IC	
R842-845			RK73HB1J104J	CHIP R 100K J 1/16W		IC318		TC7SH126FU-F		MOS-IC	
R867,868			RK73GH2A24R9D	CHIP R 24.9 D 1/10W		IC319-321		TC7SET126FU-F		MOS-IC	
R869			RK73HB1J331J	CHIP R 330 J 1/16W							

PARTS LIST / 零件表

CONTROL UNIT (X53-4140-10)
RX UNIT (X55-3102-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
IC323,324	1C		Note 1 (BGA)	MICROPROCESSOR IC		C33			CC73GCH1H271J	CHIP C 270PF J	
IC325			3625MGP396GP	MICROPROCESSOR IC		C34,35			CC73GCH1H471J	CHIP C 470PF J	
IC327			TC7SH08FU-F	MOS-IC		C36			CK73GB1H102K	CHIP C 1000PF K	
IC329			BA33DD0WT	MOS-IC		C37			CK73FB1E224K	CHIP C 0.22UF K	
IC330			TC7SH126FU-F	MOS-IC		C38			CS77CA1VR33M	CHIP TNL 0.33UF 35WV	
IC700			*	L102616LL70LI		SRAM IC	C39		CC73GCH1H271J	CHIP C 270PF J	
IC701				RV5C386A		MOS-IC	C41,42		CC73GCH1H471J	CHIP C 470PF J	
IC702			*	29PL127JKCDC		ROM IC	C43		CC73GCH1H561J	CHIP C 560PF J	
IC703				Note 1 (BGA)		MICROPROCESSOR IC	C44		CK73GB1H103K	CHIP C 0.010UF K	
IC704				48LC8M16A2P75I		DRAM IC	C45		CK73GB1H104K	CHIP C 0.10UF K	
IC705		ADM3202ARUZ	MOS-IC	C46		CC73GCH1H561J	CHIP C 560PF J				
IC707		48LC8M16A2P75I	DRAM IC	C47		CC73GCH1H471J	CHIP C 470PF J				
IC708		BU4829FVE	MOS-IC	C48		CK73GB1H104K	CHIP C 0.10UF K				
IC709		TC7SH126FU-F	MOS-IC	C50		CE32BM1E470M	CHIP EL 47UF 25WV				
IC710,711		TC7SH00FU-F	MOS-IC	C51		CK73GB1H104K	CHIP C 0.10UF K				
IC712,713		TC7SH32FU-F	MOS-IC	C53		CC73GCH1H271J	CHIP C 270PF J				
IC714-716		TC7MA244FK	MOS-IC	C54		CC73GCH1H101J	CHIP C 100PF J				
IC717,718		TC7MA245FK	MOS-IC	C55		CC73GCH1H080D	CHIP C 8.0PF D				
IC719		LAN91C111-NU	MOS-IC	C56		CC73GCH1H271J	CHIP C 270PF J				
IC720		AT93C4610SU1.8	ROM IC	C58	*	CS77CB21C220M	CHIP TNL 22UF 16WV				
IC721		TC7SH08FU-F	MOS-IC	C59		CK73GB1H104K	CHIP C 0.10UF K				
IC722		TC7SH32FU-F	MOS-IC	C60,61		CC73GCH1H471J	CHIP C 470PF J				
IC723		TC7SH00FU-F	MOS-IC	C62-66		CK73GB1H104K	CHIP C 0.10UF K				
IC724		TC7SH125FU-F	MOS-IC	C67	*	CS77CB21C220M	CHIP TNL 22UF 16WV				
IC725		TC7SH126FU-F	MOS-IC	C68		CC73GCH1H101J	CHIP C 100PF J				
IC726		TC7SH08FU-F	MOS-IC	C69		CC73GCH1H471J	CHIP C 470PF J				
IC727,728		TC7SH126FU-F	MOS-IC	C70	*	CS77CC1C330M	CHIP TNL 33UF 16WV				
Q300		2SC4738F	TRANSISTOR	C74		CC73GCH1H100C	CHIP C 10PF C				
Q301		RT1N141M-T111	TRANSISTOR	C75	*	CS77CC1C330M	CHIP TNL 33UF 16WV				
Q302		2SA1955A-F	TRANSISTOR	C76		CC73GCH1H330J	CHIP C 33PF J				
Q303		RT1P441M-T111	TRANSISTOR	C77		CK73GB1H104K	CHIP C 0.10UF K				
Q304,305		2SC4738F	TRANSISTOR	C79		CS77BA1E010M	CHIP TNL 1.0UF 25WV				
Q307,308		2SC4738F	TRANSISTOR	C81		CK73GB1H104K	CHIP C 0.10UF K				
Q309		SSM6N16FE-F	FET	C83-85		CC73GCH1H471J	CHIP C 470PF J				
Q700		2SC4738F	TRANSISTOR	C86		CC73GCH1H100C	CHIP C 10PF C				
Q702		2SC4738F	TRANSISTOR	C87		CK73GB1H104K	CHIP C 0.10UF K				
Q704,705		2SC4738F	TRANSISTOR	C88		CK73GB1H103K	CHIP C 0.010UF K				
Q706		RT1N141M-T111	TRANSISTOR	C89		CC73GCH1H270G	CHIP C 27PF G				
Q707		RT1N441M-T111	TRANSISTOR	C89		CC73GCH1H390J	CHIP C 39PF J				
BA300		W09-1004-05	LITHIUM CELL	C90		CK73GB1H103K	CHIP C 0.010UF K				
RX UNIT (X55-3102-XX) -71: C -72: C2						C91			CC73GCH1H180G	CHIP C 18PF G	C C2
D21		B30-2230-05	LED (YG)	C92		CC73FCH1H060B	CHIP C 6.0PF B				
C7		CC73GCH1H471J	CHIP C 470PF J	C93		CC73FCH1H050B	CHIP C 5.0PF B				
C10		CC73GCH1H080B	CHIP C 8.0PF B	C94		CC73FCH1H070B	CHIP C 7.0PF B				
C12		CC73GCH1H060B	CHIP C 6.0PF B	C94,95		CC73FCH1H030B	CHIP C 3.0PF B				
C12		CC73GCH1H100C	CHIP C 10PF C	C95		CC73FCH1H060B	CHIP C 6.0PF B				
C14		CC73GCH1H471J	CHIP C 470PF J	C96		CE32BM1E470M	CHIP EL 47UF 25WV				
C15		CK73GB1H104K	CHIP C 0.10UF K	C97		CK73GB1H104K	CHIP C 0.10UF K				
C17		CC73GCH1H471J	CHIP C 470PF J	C98,99		CC73GCH1H471J	CHIP C 470PF J				
C18		CK73GB1H104K	CHIP C 0.10UF K	C100		CK73GB1H103K	CHIP C 0.010UF K				
C19		CC73GCH1H471J	CHIP C 470PF J	C102		CC73GCH1H471J	CHIP C 470PF J				
C24		CC73GCH1H471J	CHIP C 470PF J	C103		CC73GCH1H050B	CHIP C 5.0PF B				
C25		CK73GB1H104K	CHIP C 0.10UF K	C103		CC73GCH1H060D	CHIP C 6.0PF D				
C26		CC73GCH1H471J	CHIP C 470PF J	C104		CC73GCH1H471J	CHIP C 470PF J				
C27		CK73GB1H102K	CHIP C 1000PF K	C105		CC73FCH1H050B	CHIP C 5.0PF B				
C32		CC73GCH1H151J	CHIP C 150PF J	C105,106		CC73FCH1H050B	CHIP C 5.0PF B				
				C106		CC73FCH1H060B	CHIP C 6.0PF B				
				C107		CC73GCH1H330J	CHIP C 33PF J				
				C108		CC73GCH1H560J	CHIP C 56PF J				
				C109,110		CK73GB1H103K	CHIP C 0.010UF K				

**Note 1 : This part cannot be replaced. Therefore, this part is not supplied as a service part.
If a part reference number is listed in a shaded box, that part does not come with the PCB.**

NXR-800H

PARTS LIST / 零件表

RX UNIT (X55-3102-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C112			CC73GCH1H220J	CHIP C 22PF J		C193			CK73GB1H104K	CHIP C 0.10UF K	
C113			CC73FCH1H060B	CHIP C 6.0PF B	C2	C194			CC73GCH1H080D	CHIP C 8.0PF D	
C113,114			CC73FCH1H060B	CHIP C 6.0PF B	C	C195			CC73GCH1H471J	CHIP C 470PF J	
C114			CC73FCH1H050B	CHIP C 5.0PF B	C2	C196,197			CK73GB1H103K	CHIP C 0.010UF K	
C115			CC73GCH1H090D	CHIP C 9.0PF D	C	C198			CC73GCH1H471J	CHIP C 470PF J	
C115			CC73GCH1H100D	CHIP C 10PF D	C2	C199			CK73GB1H103K	CHIP C 0.010UF K	
C116			CC73GCH1H560J	CHIP C 56PF J		C203-205			CC73GCH1H471J	CHIP C 470PF J	
C117			CC73GCH1H121J	CHIP C 120PF J		C206			CC73GCH1H100C	CHIP C 10PF C	
C118-120			CC73GCH1H471J	CHIP C 470PF J		C211,212			CK73GB1H103K	CHIP C 0.010UF K	
C122			CC73GCH1H090D	CHIP C 9.0PF D	C	C213			CK73GB1H473K	CHIP C 0.047UF K	
C122			CC73GCH1H100D	CHIP C 10PF D	C2	C214			CC73GCH1H040C	CHIP C 4.0PF C	
C123			CC73FCH1H060B	CHIP C 6.0PF B	C2	C215			CK73GB1H103K	CHIP C 0.010UF K	
C123,124			CC73FCH1H060B	CHIP C 6.0PF B	C	C216			CK73GB1H473K	CHIP C 0.047UF K	
C124			CC73FCH1H050B	CHIP C 5.0PF B	C2	C217			CK73GB1H104K	CHIP C 0.10UF K	
C125			CC73GCH1H070D	CHIP C 7.0PF D	C	C218			CK73GB1H473K	CHIP C 0.047UF K	
C125			CC73GCH1H100D	CHIP C 10PF D	C2	C220			CC73GCH1H040C	CHIP C 4.0PF C	
C126			CK73GB1H104K	CHIP C 0.10UF K		C221,222			CK73GB1H104K	CHIP C 0.10UF K	
C128			CC73GCH1H560J	CHIP C 56PF J		C223			CK73GB1H103K	CHIP C 0.010UF K	
C129,130			CK73GB1H103K	CHIP C 0.010UF K		C224			CK73GB1H104K	CHIP C 0.10UF K	
C131		*	CS77CC1C330M	CHIP TNTL 33UF 16WV		C225			CK73GB1H473K	CHIP C 0.047UF K	
C132-134			CC73GCH1H471J	CHIP C 470PF J		C227			CC73GCH1H471J	CHIP C 470PF J	
C137			CC73GCH1H050B	CHIP C 5.0PF B	C2	C228,229			CK73FB1E474K	CHIP C 0.47UF K	
C137			CC73GCH1H060D	CHIP C 6.0PF D	C	C230			CC73GCH1H820J	CHIP C 82PF J	
C138			CC73GCH1H150J	CHIP C 15PF J	C	C231			CK73GB1H473K	CHIP C 0.047UF K	
C138			CC73GCH1H180J	CHIP C 18PF J	C2	C232			CC73GCH1H470J	CHIP C 47PF J	
C139			CE32BM1E470M	CHIP EL 47UF 25WV		C233			CK73GB1H473K	CHIP C 0.047UF K	
C140,141			CK73GB1H103K	CHIP C 0.010UF K		C234,235			CC73GCH1H270J	CHIP C 27PF J	
C142,143			CC73FCH1H0R5C	CHIP C 0.5PF C		C236			CK73GB1H104K	CHIP C 0.10UF K	
C144-146			CK73GB1H104K	CHIP C 0.10UF K		C237			CK73GB1H102K	CHIP C 1000PF K	
C147		*	CS77CC1C330M	CHIP TNTL 33UF 16WV		C238			CC73GCH1H090D	CHIP C 9.0PF D	
C149			CC73GCH1H220J	CHIP C 22PF J		C239			CE32AU1C330M	CHIP EL 33UF 16WV	
C150			CC73GCH1H180J	CHIP C 18PF J		C240			CS77CB21C100M	CHIP TNTL 10UF 16WV	
C151			CC73GCH1H070D	CHIP C 7.0PF D	C	C241,242			CC73GCH1H150J	CHIP C 15PF J	
C151			CC73GCH1H120J	CHIP C 12PF J	C2	C243			CC73GCH1H820J	CHIP C 82PF J	
C154,155			CK73GB1H104K	CHIP C 0.10UF K		C244			CC73GCH1H100D	CHIP C 10PF D	
C156			CC73GCH1H100C	CHIP C 10PF C		C245			CK73GB1H102K	CHIP C 1000PF K	
C157,158			CC73GCH1H471J	CHIP C 470PF J		C248			CC73GCH1H471J	CHIP C 470PF J	
C159,160			CK73GB1H104K	CHIP C 0.10UF K		C249			CC73GCH1H070D	CHIP C 7.0PF D	
C161			CC73GCH1H1R5C	CHIP C 1.5PF C		C249			CC73GCH1H080D	CHIP C 8.0PF D	
C162			CC73GCH1H070D	CHIP C 7.0PF D		C250,251			CK73GB1H104K	CHIP C 0.10UF K	
C163			CC73GCH1H020B	CHIP C 2.0PF B		C252			CC73GCH1H151J	CHIP C 150PF J	
C164			CK73GB1H104K	CHIP C 0.10UF K		C253			CC73GCH1H010C	CHIP C 1.0PF C	
C165			CS77CB21C100M	CHIP TNTL 10UF 16WV		C254			CC73GCH1H030C	CHIP C 3.0PF C	
C166			CC73GCH1H220J	CHIP C 22PF J		C255			CK73GB1H104K	CHIP C 0.10UF K	
C167			CC73GCH1H180J	CHIP C 18PF J		C256			CK73GB1H102K	CHIP C 1000PF K	
C168			CC73GCH1H471J	CHIP C 470PF J		C257			CK73GB1H103K	CHIP C 0.010UF K	
C169			CC73GCH1H120J	CHIP C 12PF J	C2	C258			CK73GB1H473K	CHIP C 0.047UF K	
C169			CC73GCH1H150J	CHIP C 15PF J	C	C260			CC73GCH1H471J	CHIP C 470PF J	
C170,171			CK73GB1H104K	CHIP C 0.10UF K		C261			CK73GB1H103K	CHIP C 0.010UF K	
C172			CK73GB1H473K	CHIP C 0.047UF K		C262,263			CK73GB1H102K	CHIP C 1000PF K	
C173,174			CK73GB1H103K	CHIP C 0.010UF K		C264			CS77CA1ER47M	CHIP TNTL 0.47UF 25WV	
C175			CC73GCH1H101J	CHIP C 100PF J		C265			CC73GCH1H470J	CHIP C 47PF J	
C176			CK73GB1H104K	CHIP C 0.10UF K		C266,267			CC73GCH1H471J	CHIP C 470PF J	
C177-179			CC73GCH1H471J	CHIP C 470PF J		C268,269			CK73GB1H473K	CHIP C 0.047UF K	
C180			CK73GB1H104K	CHIP C 0.10UF K		C270		*	CS77CA1DR68M	CHIP TNTL 0.68UF 20WV	
C183			CE32AU1E100M	CHIP EL 10UF 25WV		C271			CC73GCH1H471J	CHIP C 470PF J	
C185,186			CC73GCH1H471J	CHIP C 470PF J		C272			CK73GB1H104K	CHIP C 0.10UF K	
C187			CC73GCH1H220J	CHIP C 22PF J		C273			CC73GCH1H220J	CHIP C 22PF J	
C188			CK73GB1H103K	CHIP C 0.010UF K		C274			CK73GB1H473K	CHIP C 0.047UF K	
C192			CC73GCH1H471J	CHIP C 470PF J		C277			CK73GB1H102K	CHIP C 1000PF K	

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RX UNIT (X55-3102-XX)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
C278			CC73GCH1H080D	CHIP C 8.0PF D		C367,368			CC73GCH1H330J	CHIP C 33PF J	
C279			CK73GB1H473K	CHIP C 0.047UF K		C369,370			CK73FB1E474K	CHIP C 0.47UF K	
C280			CC73GCH1H080B	CHIP C 8.0PF B		C371			CK73GB1H102K	CHIP C 1000PF K	
C281			CC73GCH1H030B	CHIP C 3.0PF B		C372			CK73GB1H473K	CHIP C 0.047UF K	
C282		*	CS77CB21C150M	CHIP TNTL 15UF 16WV		C373			CK73GB1H103K	CHIP C 0.010UF K	
C284			CK73GB1H473K	CHIP C 0.047UF K		C375			CK73GB1H103K	CHIP C 0.010UF K	
C285			CC73GCH1H471J	CHIP C 470PF J		C377			CK73GB1H103K	CHIP C 0.010UF K	
C287			CC73GCH1H390J	CHIP C 39PF J		C379			CC73GCH1H121J	CHIP C 120PF J	
C288,289			CC73GCH1H150J	CHIP C 15PF J		C380			CC73GCH1H560J	CHIP C 56PF J	
C290,291			CK73GB1H473K	CHIP C 0.047UF K		C381			CE32BM1E470M	CHIP EL 47UF 25WV	
C292			CE32CL1V100M	CHIP EL 10UF 35WV		C382,383			CK73GB1H104K	CHIP C 0.10UF K	
C295			CK73GB1H102K	CHIP C 1000PF K		C385,386			CK73GB1H104K	CHIP C 0.10UF K	
C296		*	CS77CA1DR68M	CHIP TNTL 0.68UF 20WV		C387			CC73GCH1H270J	CHIP C 27PF J	
C297			CC73GCH1H120J	CHIP C 12PF J		C388			CC73GCH1H820J	CHIP C 82PF J	
C298			CK73GB1H102K	CHIP C 1000PF K		C389			CK73GB1H473K	CHIP C 0.047UF K	
C300			CC73GCH1H220G	CHIP C 22PF G		C390			CK73GB1H104K	CHIP C 0.10UF K	
C301			CK73GB1H473K	CHIP C 0.047UF K		C391,392			CK73GB1H103K	CHIP C 0.010UF K	
C302			CC73GCH1H100D	CHIP C 10PF D		C394,395			CK73GB1H102K	CHIP C 1000PF K	
C303,304			CK73GB1H473K	CHIP C 0.047UF K		C396-398			CK73GB1H104K	CHIP C 0.10UF K	
C306			CK73GB1H102K	CHIP C 1000PF K		C400			CC73GCH1H220J	CHIP C 22PF J	
C307,308			CK73GB1H103K	CHIP C 0.010UF K		C401			CK73GB1H473K	CHIP C 0.047UF K	
C309			CC73GCH1H471J	CHIP C 470PF J		C402			CC73GCH1H560J	CHIP C 56PF J	
C310			CK73GB1H102K	CHIP C 1000PF K		C403			CK73GB1H104K	CHIP C 0.10UF K	
C311			CC73GCH1H080D	CHIP C 8.0PF D		C405			CK73GB1H102K	CHIP C 1000PF K	
C314			CK73GB1H104K	CHIP C 0.10UF K		C406			CK73GB1H103K	CHIP C 0.010UF K	
C315			CC73GCH1H270G	CHIP C 27PF G		C407			CC73GCH1H560J	CHIP C 56PF J	
C316			CK73GB1H473K	CHIP C 0.047UF K		C408			CC73GCH1H220J	CHIP C 22PF J	
C317			CC73GCH1H151J	CHIP C 150PF J		C409			CK73GB1H102K	CHIP C 1000PF K	
C318,319			CK73GB1H103K	CHIP C 0.010UF K		C410			CK73GB1H104K	CHIP C 0.10UF K	
C320			CE32BM1E470M	CHIP EL 47UF 25WV		C411			CC73GCH1H121J	CHIP C 120PF J	
C324			CC73GCH1H471J	CHIP C 470PF J		C412			CK73GB1H104K	CHIP C 0.10UF K	
C325			CC73GCH1H270G	CHIP C 27PF G		C413			CK73GB1H103K	CHIP C 0.010UF K	
C326			CC73GCH1H151J	CHIP C 150PF J		C414			CK73GB1H104K	CHIP C 0.10UF K	
C327			CK73GB1H102K	CHIP C 1000PF K		C415,416			CK73GB1H103K	CHIP C 0.010UF K	
C329			CK73GB1H103K	CHIP C 0.010UF K		C417			CK73GB1H104K	CHIP C 0.10UF K	
C330			CK73GB1H102K	CHIP C 1000PF K		C418,419			CK73GB1H103K	CHIP C 0.010UF K	
C331			CC73GCH1H020B	CHIP C 2.0PF B		C420			CK73GB1H102K	CHIP C 1000PF K	
C332			CK73GB1H104K	CHIP C 0.10UF K		C421,422			CK73GB1H473K	CHIP C 0.047UF K	
C333			CC73GCH1H151J	CHIP C 150PF J		C423,424			CK73GB1H103K	CHIP C 0.010UF K	
C334,335			CK73GB1H103K	CHIP C 0.010UF K		C425			CK73GB1H104K	CHIP C 0.10UF K	
C336			CC73GCH1H471J	CHIP C 470PF J		C427			CK73FB1E474K	CHIP C 0.47UF K	
C337			CC73GCH1H560J	CHIP C 56PF J		C428,429			CC73GCH1H560J	CHIP C 56PF J	
C340		*	CS77CC1C330M	CHIP TNTL 33UF 16WV		C430			CK73GB1H102K	CHIP C 1000PF K	
C341,342			CK73GB1H473K	CHIP C 0.047UF K		C431			CK73GB1H473K	CHIP C 0.047UF K	
C343			CC73GCH1H220J	CHIP C 22PF J		C432			CK73GB1H102K	CHIP C 1000PF K	
C347,348			CK73GB1H103K	CHIP C 0.010UF K		C434,435			CK73GB1H473K	CHIP C 0.047UF K	
C349			CC73GCH1H680J	CHIP C 68PF J		C437			CK73GB1H102K	CHIP C 1000PF K	
C350		*	CS77CC1C330M	CHIP TNTL 33UF 16WV		C438			CK73GB1H473K	CHIP C 0.047UF K	
C351			CK73GB1H102K	CHIP C 1000PF K		C439			CK73GB1H104K	CHIP C 0.10UF K	
C352			CK73GB1H473K	CHIP C 0.047UF K		C440-442			CK73FB1E474K	CHIP C 0.47UF K	
C353			CK73GB1H102K	CHIP C 1000PF K		C443,444			CK73GB1H473K	CHIP C 0.047UF K	
C355			CK73GB1H103K	CHIP C 0.010UF K		C446			CE32AU1E100M	CHIP EL 10UF 25WV	
C356			CK73GB1H473K	CHIP C 0.047UF K		C447			CK73FB1E474K	CHIP C 0.47UF K	
C357			CK73GB1H103K	CHIP C 0.010UF K		C448			CK73GB1H104K	CHIP C 0.10UF K	
C358			CK73GB1H473K	CHIP C 0.047UF K		C449			CK73GB1H473K	CHIP C 0.047UF K	
C359,360			CC73GCH1H471J	CHIP C 470PF J		C450,451			CK73FB1E474K	CHIP C 0.47UF K	
C361			CK73GB1H102K	CHIP C 1000PF K		C452,453			CK73GB1H104K	CHIP C 0.10UF K	
C362			CC73GCH1H270J	CHIP C 27PF J		C454,455			CK73FB1E474K	CHIP C 0.47UF K	
C363			CK73GB1H473K	CHIP C 0.047UF K		C456			CK73GB1H473K	CHIP C 0.047UF K	
C365,366			CK73GB1H104K	CHIP C 0.10UF K		C458			CK73GB1H104K	CHIP C 0.10UF K	

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PARTS LIST / 零件表

RX UNIT (X55-3102-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C459			CC73GCH1H221J	CHIP C 220PF J		C563			CC73GCH1H471J	CHIP C 470PF J	
C460			CK73FB1E474K	CHIP C 0.47UF K		C564			CK73GB1H103K	CHIP C 0.010UF K	
C461			CC73GCH1H221J	CHIP C 220PF J		C565			CC73GCH1H471J	CHIP C 470PF J	
C462			CK73GB1H104K	CHIP C 0.10UF K		C566			CK73GB1H473K	CHIP C 0.047UF K	
C463-465			CK73FB1E474K	CHIP C 0.47UF K		C567			CE32CL1V100M	CHIP EL 10UF 35WV	
C466			CK73GB1H473K	CHIP C 0.047UF K		C568			CC73GCH1H470J	CHIP C 47PF J	
C467			CK73GB1H102K	CHIP C 1000PF K		C569			CC73GCH1H471J	CHIP C 470PF J	
C468			CK73GB1H104K	CHIP C 0.10UF K		C570			CC73GCH1H470J	CHIP C 47PF J	
C469			CK73GB1H473K	CHIP C 0.047UF K		C571			C92-0904-05	OS-CON 22UF 35WV	
C470			CC73GCH1H471J	CHIP C 470PF J		C572,573			CK73GB1H103K	CHIP C 0.010UF K	
C471,472			CK73GB1H104K	CHIP C 0.10UF K		C574-576			CK73GB1H104K	CHIP C 0.10UF K	
C473			CC73GCH1H270J	CHIP C 27PF J		C577			CK73GB1H103K	CHIP C 0.010UF K	
C474			CK73FB1E474K	CHIP C 0.47UF K		C578			CC73GCH1H151J	CHIP C 150PF J	
C476			CE32AU1E100M	CHIP EL 10UF 25WV		C579			CC73GCH1H560J	CHIP C 56PF J	
C477			CK73GB1H104K	CHIP C 0.10UF K		C580-582			CK73GB1H103K	CHIP C 0.010UF K	
C478			CK73FB1E474K	CHIP C 0.47UF K		C583			CK73GB1H102K	CHIP C 1000PF K	
C480-482			CE32CL1V100M	CHIP EL 10UF 35WV		C584			CK73GB1H103K	CHIP C 0.010UF K	
C484-488			CC73GCH1H471J	CHIP C 470PF J		C585			CC73GCH1H470J	CHIP C 47PF J	
C489			CK73GB1H102K	CHIP C 1000PF K		C585			CK73GB1H102K	CHIP C 1000PF K	C2
C491			CK73GB1H104K	CHIP C 0.10UF K		C586			CC73GCH1H471J	CHIP C 470PF J	C
C492			C93-0912-05	CHIP C 100UF M		C587-590			CK73FB1E474K	CHIP C 0.47UF K	
C493			CK73GB1H473K	CHIP C 0.047UF K		C591			CK73GB1H102K	CHIP C 1000PF K	
C494			CK73FB0J106K	CHIP C 10UF K		C618			CC73GCH1H101J	CHIP C 100PF J	
C495			CK73GB1H104K	CHIP C 0.10UF K		C619			CK73GB1H104K	CHIP C 0.10UF K	
C498			CC73GCH1H470J	CHIP C 47PF J		C620			CK73GB1H102K	CHIP C 1000PF K	
C499			CK73FB0J106K	CHIP C 10UF K		C621,622			CK73GB1H104K	CHIP C 0.10UF K	
C500-504			CC73GCH1H471J	CHIP C 470PF J		C624			CC73GCH1H101J	CHIP C 100PF J	
C505			CK73FB0J106K	CHIP C 10UF K		C625			CE32BM1E470M	CHIP EL 47UF 25WV	
C506			CK73GB1H102K	CHIP C 1000PF K		C626			CS77BA1E010M	CHIP TNL 1.0UF 25WV	
C507			CK73GB1H104K	CHIP C 0.10UF K		C628			CK73GB1H104K	CHIP C 0.10UF K	
C508			CK73FB0J106K	CHIP C 10UF K		C630			CK73GB1H104K	CHIP C 0.10UF K	
C509			CC73GCH1H101J	CHIP C 100PF J		C652			CK73GB1H104K	CHIP C 0.10UF K	
C510			CK73GB1H104K	CHIP C 0.10UF K		C655			CK73FB0J106K	CHIP C 10UF K	
C516			CK73GB1H473K	CHIP C 0.047UF K		C657			CC73GCH1H270J	CHIP C 27PF J	
C517			CK73FB0J106K	CHIP C 10UF K		C658			CK73FB1E474K	CHIP C 0.47UF K	
C518			CK73GB1H104K	CHIP C 0.10UF K		C659			CC73GCH1H101J	CHIP C 100PF J	
C519			CC73GCH1H471J	CHIP C 470PF J		C660			CC73GCH1H050C	CHIP C 5.0PF C	
C520			CK73GB1H103K	CHIP C 0.010UF K		C661			CK73GB1H104K	CHIP C 0.10UF K	
C521			CK73GB1H104K	CHIP C 0.10UF K		C671			CK73GB1H104K	CHIP C 0.10UF K	
C522			CK73GB1H103K	CHIP C 0.010UF K		C675			CE32AU1C330M	CHIP EL 33UF 16WV	C2
C523			CK73GB1H104K	CHIP C 0.10UF K		C677			CK73GB1H104K	CHIP C 0.10UF K	
C524			CK73FB1H333K	CHIP C 0.033UF K		CN1-4			E23-1280-05	TERMINAL	
C527			CK73GB1H104K	CHIP C 0.10UF K		CN5			E04-0460-05	RF COAXIAL RECEPTACLE (SMB)	
C532			CK73GB1H104K	CHIP C 0.10UF K		CN6			E41-2735-05	PIN ASSY	
C533-536			CE32CL1V100M	CHIP EL 10UF 35WV		CN8-35			E23-1280-05	TERMINAL	
C537-540			CC73GCH1H471J	CHIP C 470PF J		CN36			E41-2735-05	PIN ASSY	
C541,542			CK73GB1H104K	CHIP C 0.10UF K		CN38,39			E23-1280-05	TERMINAL	
C543			CK73GB1H473K	CHIP C 0.047UF K		CN41			E04-0154-05	PIN SOCKET	
C544			CC73GCH1H470J	CHIP C 47PF J		CN42			E40-6656-05	PIN ASSY	
C545-548			CC73GCH1H471J	CHIP C 470PF J		CN43			E04-0193-05	PIN SOCKET	
C549			CC73GCH1H470J	CHIP C 47PF J		CN44			E41-2672-05	PIN ASSY	
C550-553			CK73GB1H103K	CHIP C 0.010UF K		CN45			E04-0193-05	PIN SOCKET	
C554			CK73GB1H473K	CHIP C 0.047UF K		CN46,47			E41-2735-05	PIN ASSY	
C555			CE32BM1V220M	CHIP EL 22UF 35WV		CN61,62			E23-1280-05	TERMINAL	
C556			CC73GCH1H471J	CHIP C 470PF J		CN69			E23-1330-05	TERMINAL	C
C557			CK73GB1H473K	CHIP C 0.047UF K		E1			F10-2379-04	SHIELDING CASE	
C558			CC73GCH1H471J	CHIP C 470PF J		E2			F10-2409-04	SHIELDING CASE	
C559			CK73GB1H104K	CHIP C 0.10UF K		E3			F10-3080-04	SHIELDING CASE	
C560,561			CC73GCH1H471J	CHIP C 470PF J							
C562			CK73GB1H473K	CHIP C 0.047UF K							

PARTS LIST / 零件表

RX UNIT (X55-3102-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
CF1			L72-1019-05	CERAMIC FILTER		L67			L41-5675-33	SMALL FIXED INDUCTOR (0.056UH)	C
CF2			L72-1028-05	CERAMIC FILTER		L68			L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)	
CF3,4			L72-1027-05	CERAMIC FILTER		L69			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
CF5,6			L72-1028-05	CERAMIC FILTER		L70			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
CF7			L72-1027-05	CERAMIC FILTER		L71			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
L2			L34-4616-05	AIR-CORE COIL		L72			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
L5			L34-4604-15	AIR-CORE COIL	C	L73			L41-2285-33	SMALL FIXED INDUCTOR (0.22UH)	
L5			L34-4605-15	AIR-CORE COIL	C2	L74,75			L34-4748-05	COIL	
L8,9			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)		L76			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)	
L10			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)		L77			L92-0140-05	CHIP FERRITE	
L11			L41-1295-33	SMALL FIXED INDUCTOR (1.2UH)		L78			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
L12			L34-4605-15	AIR-CORE COIL		L79			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
L13			L41-1295-33	SMALL FIXED INDUCTOR (1.2UH)		L80			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	
L14			L41-1805-33	SMALL FIXED INDUCTOR (18UH)		L81			L41-8285-33	SMALL FIXED INDUCTOR (0.82UH)	
L16			L41-2705-33	SMALL FIXED INDUCTOR (27UH)		L82			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
L17,18			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	C	L83			L41-6895-33	SMALL FIXED INDUCTOR (6.8UH)	
L17,18			L41-1098-40	SMALL FIXED INDUCTOR (1000NH)	C2	L86			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)	
L20			L41-2705-33	SMALL FIXED INDUCTOR (27UH)		L87			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
L21,22			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	C	L88			L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)	
L21,22			L41-1098-40	SMALL FIXED INDUCTOR (1000NH)	C2	L89			L41-6895-33	SMALL FIXED INDUCTOR (6.8UH)	
L23			L41-2705-33	SMALL FIXED INDUCTOR (27UH)		L90,91			L34-4748-05	COIL	
L26			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		L92			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)	
L27			L41-1098-40	SMALL FIXED INDUCTOR (1000NH)		L93			L41-1085-33	SMALL FIXED INDUCTOR (0.1UH)	
L28			L34-4524-05	AIR-CORE COIL	C	L94,95			L39-1476-05	TOROIDAL COIL	
L28			L34-4891-05	AIR-CORE COIL	C2	L96			L41-6895-33	SMALL FIXED INDUCTOR (6.8UH)	
L29			L41-1098-40	SMALL FIXED INDUCTOR (1000NH)		L97			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
L30			L34-4524-05	AIR-CORE COIL	C	L98,99			L41-1895-33	SMALL FIXED INDUCTOR (1.8UH)	
L30			L34-4891-05	AIR-CORE COIL	C2	L100			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
L31			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	C	L101			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
L31			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	C2	L102			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
L32			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)		L103			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
L33			L41-2785-33	SMALL FIXED INDUCTOR (0.27UH)		L106			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)	
L34			L41-1205-33	SMALL FIXED INDUCTOR (12UH)		L107			L41-6895-33	SMALL FIXED INDUCTOR (6.8UH)	
L35			L41-3395-33	SMALL FIXED INDUCTOR (3.3UH)		L108,109			L41-4775-33	SMALL FIXED INDUCTOR (0.047UH)	
L36			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	C	L110			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)	
L36			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	C2	L111			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
L37			L41-1205-33	SMALL FIXED INDUCTOR (12UH)		L112,113			L39-1476-05	TOROIDAL COIL	
L38			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		L114			L41-6875-33	SMALL FIXED INDUCTOR (0.068UH)	
L39			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	C	L115			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)	
L39			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	C2	L116,117			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)	
L40,41			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	C	L118			L41-6875-33	SMALL FIXED INDUCTOR (0.068UH)	
L40,41			L41-1098-40	SMALL FIXED INDUCTOR (1000NH)	C2	L119			L41-2285-33	SMALL FIXED INDUCTOR (0.22UH)	
L42			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)		L120			L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)	
L43,44			L41-3395-33	SMALL FIXED INDUCTOR (3.3UH)		L121			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
L45			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)		L122			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)	
L46,47			L34-4749-05	COIL		L123			L41-3395-33	SMALL FIXED INDUCTOR (3.3UH)	
L48			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		L124-126			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)	
L49			L41-2705-33	SMALL FIXED INDUCTOR (27UH)		L127			L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)	
L50			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)		L128			L34-4725-05	COIL	
L51			L92-0140-05	CHIP FERRITE		L129,130			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
L52,53			L34-4749-05	COIL		L131			L41-5685-33	SMALL FIXED INDUCTOR (0.56UH)	
L54			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)		L132-135			L79-1849-05	HELICAL BLOCK	C
L55			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)		L132-135			L79-1853-05	HELICAL BLOCK	C2
L56			L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)		L136,137			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
L57			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)		XF1			L71-0661-05	MCF (49.95MHZ)	
L58,59			L41-1885-33	SMALL FIXED INDUCTOR (0.18UH)		XF2			L71-0660-05	MCF (49.95MHZ)	
L60,61			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)		XF3			L71-0648-05	MCF (49.95MHZ)	
L62			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)		XF4			L71-0647-05	MCF (49.95MHZ)	
L66			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)	C	R1			RK73GB2A102J	CHIP R 1.0K J 1/10W	C2
L66,67			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)	C2						

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PARTS LIST / 零件表

RX UNIT (X55-3102-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R1			RK73GB2A332J	CHIP R 3.3K J 1/10W	C	R75,76			RK73GB2A103J	CHIP R 10K J 1/10W	
R2			RK73GB2A182J	CHIP R 1.8K J 1/10W	C	R77,78			RK73FB2B470J	CHIP R 47 J 1/8W	
R2			RK73GB2A561J	CHIP R 560 J 1/10W	C2	R79			RK73GB2A100J	CHIP R 10 J 1/10W	
R4			RK73FB2B121J	CHIP R 120 J 1/8W		R80			RK73GB2A271J	CHIP R 270 J 1/10W	
R8			RK73GB2A100J	CHIP R 10 J 1/10W	C	R81			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R8			RK73GB2A470J	CHIP R 47 J 1/10W	C2	R82			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R9			RK73GB2A332J	CHIP R 3.3K J 1/10W		R83,84			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R10			RK73GB2A103J	CHIP R 10K J 1/10W	C	R85			RK73GB2A333J	CHIP R 33K J 1/10W	
R10,11			RK73GB2A681J	CHIP R 680 J 1/10W	C2	R86			RK73GB2A104J	CHIP R 100K J 1/10W	
R11			RK73GB2A681J	CHIP R 680 J 1/10W	C	R88			RK73GB2A103J	CHIP R 10K J 1/10W	
R12			RK73GB2A102J	CHIP R 1.0K J 1/10W	C2	R89			RK73GB2A100J	CHIP R 10 J 1/10W	
R12			RK73GB2A391J	CHIP R 390 J 1/10W	C	R90			RK73GB2A330J	CHIP R 33 J 1/10W	
R13			RK73GB2A682J	CHIP R 6.8K J 1/10W		R91			RK73GB2A331J	CHIP R 330 J 1/10W	
R14			RK73FB2B100J	CHIP R 10 J 1/8W		R92			RK73GB2A104J	CHIP R 100K J 1/10W	
R15,16			RK73GB2A000J	CHIP R 0.0 J 1/10W		R93			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R17			RK73GB2A181J	CHIP R 180 J 1/10W		R94			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R19,20			RK73GB2A104J	CHIP R 100K J 1/10W		R95			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R21			RK73GB2A684J	CHIP R 680K J 1/10W		R96			RK73GB2A100J	CHIP R 10 J 1/10W	
R22			RK73GB2A474J	CHIP R 470K J 1/10W		R97			RK73GB2A101J	CHIP R 100 J 1/10W	
R23			RK73GB2A000J	CHIP R 0.0 J 1/10W		R98,99			RK73GB2A331J	CHIP R 330 J 1/10W	
R24			RK73GB2A100J	CHIP R 10 J 1/10W		R100			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R25			RK73GB2A561J	CHIP R 560 J 1/10W		R101			RK73FB2B100J	CHIP R 10 J 1/8W	
R26,27			RK73GB2A000J	CHIP R 0.0 J 1/10W		R102			RK73GB2A101J	CHIP R 100 J 1/10W	
R28			RK73GB2A100J	CHIP R 10 J 1/10W		R103			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R29			RK73GB2A152J	CHIP R 1.5K J 1/10W		R104,105			RK73GB2A123J	CHIP R 12K J 1/10W	
R30			RK73GB2A684J	CHIP R 680K J 1/10W		R106			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R31			RK73GB2A221J	CHIP R 220 J 1/10W	C	R107,108			RK73GB2A103J	CHIP R 10K J 1/10W	
R31			RK73GB2A471J	CHIP R 470 J 1/10W	C2	R110			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R32			RK73GB2A104J	CHIP R 100K J 1/10W		R110			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R33			RK73GB2A102J	CHIP R 1.0K J 1/10W		R112			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R34			RK73GB2A471J	CHIP R 470 J 1/10W		R114			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R36			RK73GB2A103J	CHIP R 10K J 1/10W		R115			RK73FB2B220J	CHIP R 22 J 1/8W	
R37			RK73GB2A123J	CHIP R 12K J 1/10W		R116			RK73GB2A101J	CHIP R 100 J 1/10W	
R38			RK73GB2A101J	CHIP R 100 J 1/10W	C	R117,118			RK73FB2B220J	CHIP R 22 J 1/8W	
R38			RK73GB2A220J	CHIP R 22 J 1/10W	C2	R119,120			RK73GB2A103J	CHIP R 10K J 1/10W	
R39			RK73GB2A000J	CHIP R 0.0 J 1/10W		R122			RK73GB2A101J	CHIP R 100 J 1/10W	
R40			RK73GB2A102J	CHIP R 1.0K J 1/10W		R123			RK73GB2A153J	CHIP R 15K J 1/10W	
R42-44			RK73GB2A000J	CHIP R 0.0 J 1/10W		R124			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R45			RK73GB2A471J	CHIP R 470 J 1/10W		R125			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R46			RK73GB2A330J	CHIP R 33 J 1/10W		R128			RK73GB2A101J	CHIP R 100 J 1/10W	
R47			RK73GB2A102J	CHIP R 1.0K J 1/10W		R129			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R48			RK73FB2B271J	CHIP R 270 J 1/8W		R130,131			RK73FB2B100J	CHIP R 10 J 1/8W	
R50			RK73FB2B180J	CHIP R 18 J 1/8W		R132			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R52			RK73GB2A100J	CHIP R 10 J 1/10W		R133			RK73GB2A123J	CHIP R 12K J 1/10W	
R53,54			RK73GB2A000J	CHIP R 0.0 J 1/10W		R134			RK73GB2A104J	CHIP R 100K J 1/10W	
R55			RK73FB2B271J	CHIP R 270 J 1/8W		R135,136			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R56			RK73GB2A100J	CHIP R 10 J 1/10W		R137			RK73GB2A101J	CHIP R 100 J 1/10W	
R57			RK73GB2A470J	CHIP R 47 J 1/10W	C2	R138,139			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R60			RK73GB2A100J	CHIP R 10 J 1/10W		R140,141			RK73GB2A181J	CHIP R 180 J 1/10W	
R61			RK73GB2A470J	CHIP R 47 J 1/10W		R142			RK73FB2B100J	CHIP R 10 J 1/8W	
R62,63			RK73GB2A102J	CHIP R 1.0K J 1/10W		R145			RK73GB2A100J	CHIP R 10 J 1/10W	
R64			RK73GB2A000J	CHIP R 0.0 J 1/10W		R146			RK73GB2A101J	CHIP R 100 J 1/10W	
R65			RK73GB2A103J	CHIP R 10K J 1/10W	C2	R147			RK73GB2A271J	CHIP R 270 J 1/10W	
R65			RK73GB2A822J	CHIP R 8.2K J 1/10W	C	R148			RK73GB2A561J	CHIP R 560 J 1/10W	
R66,67			RN73GE1J331D	CHIP R 330 D 1/16W	C	R149			RK73GB2A821J	CHIP R 820 J 1/10W	
R66,67			RN73GE1J391D	CHIP R 390 D 1/16W	C2	R150			RK73FB2B101J	CHIP R 100 J 1/8W	
R68			RK73GB2A392J	CHIP R 3.9K J 1/10W		R151			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R69-71			RK73GB2A102J	CHIP R 1.0K J 1/10W		R152			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R72			RK73GB2A2R2J	CHIP R 2.2 J 1/10W		R153			RK73GB2A101J	CHIP R 100 J 1/10W	
R73			RK73GB2A104J	CHIP R 100K J 1/10W		R154			RK73GB2A000J	CHIP R 0.0 J 1/10W	

PARTS LIST / 零件表

RX UNIT (X55-3102-XX)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
R155			RK73GB2A332J	CHIP R 3.3K J 1/10W		R234			RK73GB2A101J	CHIP R 100 J 1/10W	
R156			RK73GB2A680J	CHIP R 68 J 1/10W		R236,237			RK73GB2A180J	CHIP R 18 J 1/10W	
R157			RK73GB2A151J	CHIP R 150 J 1/10W		R238			RK73GB2A181J	CHIP R 180 J 1/10W	
R158			RK73GB2A101J	CHIP R 100 J 1/10W		R239			RK73GB2A100J	CHIP R 10 J 1/10W	
R159			RK73GB2A000J	CHIP R 0.0 J 1/10W		R240			RK73GB2A471J	CHIP R 470 J 1/10W	
R160			RK73GB2A3R3J	CHIP R 3.3 J 1/10W		R241			RK73GB2A103J	CHIP R 10K J 1/10W	
R161			RK73GB2A000J	CHIP R 0.0 J 1/10W		R242,243			RK73GB2A470J	CHIP R 47 J 1/10W	
R163			RK73GB2A102J	CHIP R 1.0K J 1/10W		R244			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R164			RK73GB2A104J	CHIP R 100K J 1/10W		R245			RK73GB2A473J	CHIP R 47K J 1/10W	
R165,166			RK73GB2A273J	CHIP R 27K J 1/10W		R248			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R167			RK73GB2A000J	CHIP R 0.0 J 1/10W		R249			RK73GB2A222J	CHIP R 2.2K J 1/10W	C2
R169			RK73GB2A103J	CHIP R 10K J 1/10W		R249,250			RK73GB2A272J	CHIP R 2.7K J 1/10W	C
R171			RK73GB2A103J	CHIP R 10K J 1/10W		R250			RK73GB2A103J	CHIP R 10K J 1/10W	C2
R172			RK73GB2A100J	CHIP R 10 J 1/10W		R254			RK73GB2A331J	CHIP R 330 J 1/10W	C
R173			RN73GE1J271D	CHIP R 270 D 1/16W		R254,255			RK73GB2A000J	CHIP R 0.0 J 1/10W	C2
R174,175			RK73GB2A153J	CHIP R 15K J 1/10W		R255			RK73GB2A391J	CHIP R 390 J 1/10W	C
R176			RK73GB2A100J	CHIP R 10 J 1/10W		R256			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R177			RK73GB2A470J	CHIP R 47 J 1/10W		R257			RK73GB2A331J	CHIP R 330 J 1/10W	C
R178,179			RK73GB2A103J	CHIP R 10K J 1/10W		R257,258			RK73GB2A000J	CHIP R 0.0 J 1/10W	C2
R180			RK73GB2A100J	CHIP R 10 J 1/10W		R258			RK73GB2A391J	CHIP R 390 J 1/10W	C
R181			RK73GB2A102J	CHIP R 1.0K J 1/10W		R259			RK73GB2A222J	CHIP R 2.2K J 1/10W	C2
R183			RK73GB2A102J	CHIP R 1.0K J 1/10W		R259,260			RK73GB2A272J	CHIP R 2.7K J 1/10W	C
R184			RK73GB2A000J	CHIP R 0.0 J 1/10W		R260			RK73GB2A103J	CHIP R 10K J 1/10W	C2
R185			RK73GB2A100J	CHIP R 10 J 1/10W		R261			RK73GB2A123J	CHIP R 12K J 1/10W	
R186,187			RK73GB2A104J	CHIP R 100K J 1/10W		R262			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R189,190			RK73FB2B101J	CHIP R 100 J 1/8W		R263			RK73GB2A183J	CHIP R 18K J 1/10W	
R191,192			RK73FB2B271J	CHIP R 270 J 1/8W		R264			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R193			RK73GB2A102J	CHIP R 1.0K J 1/10W		R265			RK73GB2A181J	CHIP R 180 J 1/10W	
R194			RK73GB2A472J	CHIP R 4.7K J 1/10W		R266			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R195			RK73GB2A181J	CHIP R 180 J 1/10W		R267			RK73GB2A103J	CHIP R 10K J 1/10W	
R196,197			RK73FB2B100J	CHIP R 10 J 1/8W		R268			RK73GB2A154J	CHIP R 150K J 1/10W	
R198,199			RK73GB2A102J	CHIP R 1.0K J 1/10W		R269			RK73GB2A470J	CHIP R 47 J 1/10W	
R200			RK73GB2A682J	CHIP R 6.8K J 1/10W		R270,271			RK73GB2A103J	CHIP R 10K J 1/10W	
R201			RK73GB2A330J	CHIP R 33 J 1/10W		R272			RK73GB2A104J	CHIP R 100K J 1/10W	
R202			RK73GB2A2R2J	CHIP R 2.2 J 1/10W		R273			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R203			RK73GB2A104J	CHIP R 100K J 1/10W		R274			RK73GB2A103J	CHIP R 10K J 1/10W	C2
R204			RK73GB2A332J	CHIP R 3.3K J 1/10W		R274			RK73GB2A153J	CHIP R 15K J 1/10W	C
R205			RK73GB2A682J	CHIP R 6.8K J 1/10W		R275			RK73GB2A223J	CHIP R 22K J 1/10W	
R206			RK73GB2A152J	CHIP R 1.5K J 1/10W		R276			RK73GB2A183J	CHIP R 18K J 1/10W	
R207			RK73GB2A470J	CHIP R 47 J 1/10W	C	R277			RK73GB2A103J	CHIP R 10K J 1/10W	
R207,208			RK73GB2A470J	CHIP R 47 J 1/10W	C2	R278,279			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R209			RK73GB2A101J	CHIP R 100 J 1/10W		R280,281			RK73GB2A103J	CHIP R 10K J 1/10W	
R210			RK73GB2A100J	CHIP R 10 J 1/10W		R284			RK73GB2A471J	CHIP R 470 J 1/10W	
R211			RK73GB2A104J	CHIP R 100K J 1/10W		R285			RK73GB2A334J	CHIP R 330K J 1/10W	
R212			RK73GB2A100J	CHIP R 10 J 1/10W		R286			RK73GB2A183J	CHIP R 18K J 1/10W	
R213,214			RK73GB2A563J	CHIP R 56K J 1/10W		R287			RK73GB2A273J	CHIP R 27K J 1/10W	
R215			RK73GB2A181J	CHIP R 180 J 1/10W		R288			RK73GB2A560J	CHIP R 56 J 1/10W	
R217			RK73GB2A104J	CHIP R 100K J 1/10W		R290			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R218,219			RK73GB2A180J	CHIP R 18 J 1/10W		R291			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R220			RK73GB2A102J	CHIP R 1.0K J 1/10W		R292			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R221,222			RK73GB2A471J	CHIP R 470 J 1/10W		R293			RK73GB2A183J	CHIP R 18K J 1/10W	
R223			RK73GB2A180J	CHIP R 18 J 1/10W		R294			RK73GB2A223J	CHIP R 22K J 1/10W	
R224			RK73GB2A100J	CHIP R 10 J 1/10W		R295			RK73GB2A104J	CHIP R 100K J 1/10W	
R225			RK73GB2A180J	CHIP R 18 J 1/10W		R296-298			RK73GB2A473J	CHIP R 47K J 1/10W	
R226			RK73GB2A101J	CHIP R 100 J 1/10W		R300			RK73GB2A103J	CHIP R 10K J 1/10W	
R229			RK73GB2A101J	CHIP R 100 J 1/10W		R306			RK73GB2A473J	CHIP R 47K J 1/10W	
R230			RK73GB2A100J	CHIP R 10 J 1/10W		R307-310			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R231			RK73GB2A680J	CHIP R 68 J 1/10W		R311			RK73GB2A474J	CHIP R 470K J 1/10W	
R232			RK73GB2A100J	CHIP R 10 J 1/10W		R317-319			RK73GB2A100J	CHIP R 10 J 1/10W	
R233			RK73GB2A000J	CHIP R 0.0 J 1/10W		R321			RK73GB2A104J	CHIP R 100K J 1/10W	

NXR-800H

PARTS LIST / 零件表

RX UNIT (X55-3102-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R323			RK73GB2A000J	CHIP R 0.0 J 1/10W		R436			RK73GB2A392J	CHIP R 3.9K J 1/10W	C
R324,325			RK73GB2A104J	CHIP R 100K J 1/10W		R436			RK73GB2A472J	CHIP R 4.7K J 1/10W	C2
R326			RK73GB2A100J	CHIP R 10 J 1/10W		R437			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R328			RK73GB2A000J	CHIP R 0.0 J 1/10W		R453			RK73GB2A000J	CHIP R 0.0 J 1/10W	C
R330			RK73GB2A104J	CHIP R 100K J 1/10W		R454			RK73GB2A000J	CHIP R 0.0 J 1/10W	C2
R332			RK73GB2A101J	CHIP R 100 J 1/10W		R455			RK73GB2A104J	CHIP R 100K J 1/10W	
R333			RK73GB2A104J	CHIP R 100K J 1/10W		R459			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R334			RK73GB2A101J	CHIP R 100 J 1/10W		R462			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R335			RK73GB2A104J	CHIP R 100K J 1/10W		D1,2			HSC119	DIODE	
R337			RK73GB2A102J	CHIP R 1.0K J 1/10W		D3-6			1SV283F	VARIABLE CAPACITANCE DIODE	
R338			RK73GB2A472J	CHIP R 4.7K J 1/10W		D9,10			JDP4P02U	DIODE	
R340-342			RK73GB2A102J	CHIP R 1.0K J 1/10W		D11			KV1470-G	VARIABLE CAPACITANCE DIODE	
R343			RK73GB2A104J	CHIP R 100K J 1/10W		D12			1SV283F	VARIABLE CAPACITANCE DIODE	
R344			RK73GB2A473J	CHIP R 47K J 1/10W		D13,14			JDP4P02U	DIODE	
R345,346			RK73GB2A472J	CHIP R 4.7K J 1/10W		D15,16			DAN235E	DIODE	
R347,348			RK73GB2A101J	CHIP R 100 J 1/10W		D17,18			MA3J742	DIODE	
R349			RK73GB2A470J	CHIP R 47 J 1/10W		D19,20			DAN235E	DIODE	
R350,351			RK73GB2A221J	CHIP R 220 J 1/10W		IC4			TA75S01F-F	MOS-IC	
R352			RK73GB2A473J	CHIP R 47K J 1/10W		IC5			ADF4111BCP7	MOS-IC	
R353			RK73GB2A470J	CHIP R 47 J 1/10W		IC6			LMC7101BIM5	MOS-IC	
R357			RK73GB2A471J	CHIP R 470 J 1/10W		IC7			AD9835BRUZ	MOS-IC	
R358			RK73GB2A100J	CHIP R 10 J 1/10W		IC8	*		NJU6368PF1	MOS-IC	
R359			RK73GB2A221J	CHIP R 220 J 1/10W		IC9			UPB1509GV	BI-POLAR IC	
R360			RK73GB2A682J	CHIP R 6.8K J 1/10W		IC10			TK11230CMCL-G	BI-POLAR IC	
R361			RK73GB2A332J	CHIP R 3.3K J 1/10W		IC11			ADF4111BCP7	MOS-IC	
R362			RK73GB2A101J	CHIP R 100 J 1/10W		IC12			TA31137FNG	MOS-IC	
R363			RK73GB2A100J	CHIP R 10 J 1/10W		IC13			AD607Z	BI-POLAR IC	
R364			RK73GB2A470J	CHIP R 47 J 1/10W		IC14			AD8051ART	ANALOGUE IC	
R366,367			RK73GB2A000J	CHIP R 0.0 J 1/10W	C2	IC15,16			NJM78L05UA-ZB	BI-POLAR IC	
R366,367			RK73GB2A331J	CHIP R 330 J 1/10W	C	IC17-19			NJM78M05DL1AZB	ANALOGUE IC	
R368-370			RK73GB2A103J	CHIP R 10K J 1/10W	C2	IC20			NJM4558E-ZB	ANALOGUE IC	
R368-370			RK73GB2A272J	CHIP R 2.7K J 1/10W	C	IC22			XC6204B332M	MOS-IC	
R371,372			RK73GB2A000J	CHIP R 0.0 J 1/10W	C2	IC23			BH2220FVM	ANALOGUE IC	
R371,372			RK73GB2A391J	CHIP R 390 J 1/10W	C	IC24,25	2D		NJM7808FA-ZB	BI-POLAR IC	
R373			RK73GB2A103J	CHIP R 10K J 1/10W	C2	IC26,27			NJM2386ADL3-09	ANALOGUE IC	
R373			RK73GB2A272J	CHIP R 2.7K J 1/10W	C	IC28			AD1582	ANALOGUE IC	
R375,376			RK73GB2A105J	CHIP R 1.0M J 1/10W		IC29			NJM2732V	BI-POLAR IC	
R377			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC30			AD7908BRU	MOS-IC	
R379			RK73GB2A101J	CHIP R 100 J 1/10W		IC31			S24CS02AFJTBG	ROM IC	
R380			RK73GB2A104J	CHIP R 100K J 1/10W		IC32			NJM2732V	BI-POLAR IC	
R381			RK73GB2A223J	CHIP R 22K J 1/10W		IC33			LMC7101BIM5	MOS-IC	
R382-384			RK73GB2A104J	CHIP R 100K J 1/10W		IC35			LM50BIM3/NOBP	MOS-IC	
R385			RK73GB2A101J	CHIP R 100 J 1/10W		Q1	*		2SC5336-AZ	TRANSISTOR	C2
R388			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q1			2SC5337	TRANSISTOR	C
R390			RK73GB2A471J	CHIP R 470 J 1/10W		Q2			2SC4116(BL)F	TRANSISTOR	
R391,392			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q3			2SC4617(R)	TRANSISTOR	
R393			RK73GB2A103J	CHIP R 10K J 1/10W		Q4			2SC4116(BL)F	TRANSISTOR	
R394			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q5			2SC4617(R)	TRANSISTOR	
R396			RK73GB2A101J	CHIP R 100 J 1/10W		Q6			2SC4116(BL)F	TRANSISTOR	
R400,401			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q7,8			2SK508NV(K53)	FET	
R403			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q9-11			2SC4116(BL)F	TRANSISTOR	
R405			RK73GB2A153J	CHIP R 15K J 1/10W		Q12			2SC4617(R)	TRANSISTOR	
R406			RK73GB2A682J	CHIP R 6.8K J 1/10W		Q13	*		2SA1832F	TRANSISTOR	
R407			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q14,15			SSM3K15TE(F)	FET	
R410			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q16,17			2SC3356-A(R24)	TRANSISTOR	
R417			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q18-20			RD01MUS1-T113	FET	
R422-425			RK73GB2A000J	CHIP R 0.0 J 1/10W	C2	Q21			2SC4725	TRANSISTOR	
R430,431			RN73GE1J331D	CHIP R 330 J 1/16W		Q22			2SC4617(R)	TRANSISTOR	
R432			RK73GB2A103J	CHIP R 10K J 1/10W		Q23			2SC3356-A(R24)	TRANSISTOR	
R435			RK73GB2A473J	CHIP R 47K J 1/10W							

PARTS LIST / 零件表

RX UNIT (X55-3102-XX)
TX UNIT (X56-312X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
Q24			2SK508NV(K52)	FET		C139			CC73GCH1H020B	CHIP C 2.0PF B	
Q25			SSM3J01F	FET		C140,141			CC73GCH1H471J	CHIP C 470PF J	
Q26			SSM3K15TE(F)	FET		C142			CC73GCH1H090B	CHIP C 9.0PF B	C
Q27			2SC4116(BL)F	TRANSISTOR		C142			CC73GCH1H120J	CHIP C 12PF J	C2
Q28,29			3SK317-E	FET		C143			CC73GCH1H100D	CHIP C 10PF D	
Q30			2SC4617(R)	TRANSISTOR		C145			CC73GCH1H100C	CHIP C 10PF C	C
Q31			SSM3K15TE(F)	FET		C145			CC73GCH1H120J	CHIP C 12PF J	C2
Q32			SSM3J01F	FET		C146			CC73GCH1H471J	CHIP C 470PF J	
Q33			2SC4725	TRANSISTOR		C147			CC73GCH1H0R5B	CHIP C 0.5PF B	
Q34		*	2SA1832F	TRANSISTOR		C148			CC73GCH1H150J	CHIP C 15PF J	
Q35,36			2SC4725	TRANSISTOR		C149			CK73GB1H103K	CHIP C 0.010UF K	
Q37			SSM3K15TE(F)	FET		C151			CE32CL1V100M	CHIP EL 10UF 35WV	
Q38			2SC4725	TRANSISTOR		C152			CC73GCH1H471J	CHIP C 470PF J	
Q39			2SC4617(R)	TRANSISTOR		C153			CC73GCH1H100D	CHIP C 10PF D	
Q40			2SC4617(S)	TRANSISTOR		C154			CS77CC1C330M	CHIP TNTL 33UF 16WV	
Q50,51			SSM3K15TE(F)	FET		C156,157			CC73GCH1H471J	CHIP C 470PF J	
Q52			2S.J484	FET		C158			CS77CC1C330M	CHIP TNTL 33UF 16WV	
Q53			2SC4725	TRANSISTOR		C160			CC73GCH1H471J	CHIP C 470PF J	
Q56			SSM3K15TE(F)	FET		C161			CE32BM1E470M	CHIP EL 47UF 25WV	
Q57			DTA144EEB	DIGITAL TRANSISTOR		C162,163			CC73GCH1H471J	CHIP C 470PF J	
Q58-61			SSM3K15TE(F)	FET		C164			CC73GCH1H070D	CHIP C 7.0PF D	
TH2,3			157-103-53007	THERMISTOR	C2	C166			CC73GCH1H060D	CHIP C 6.0PF D	
A1			W02-1940-05	DBM		C167			CC73GCH1H070D	CHIP C 7.0PF D	
-			212-1514-05	INSULATING TUBE		C168			CC73GCH1H030C	CHIP C 3.0PF C	
						C169,170			CC73GCH1H471J	CHIP C 470PF J	
TX UNIT (X56-312X-XX) 0-12: C2 2-71: C											
D202			B30-2230-05	LED (YG)		C171			CK73GB1H103K	CHIP C 0.010UF K	
D301			B30-2230-05	LED (YG)		C172			CK73GB1H471K	CHIP C 470PF K	
D920-924			B30-2265-05	LED (BR/PG)		C173,174			CC73GCH1H471J	CHIP C 470PF J	
D925-932			B30-2171-05	LED (D)		C175			CC73GCH1H070D	CHIP C 7.0PF D	
C101			CS77CA1ER47M	CHIP TNTL 0.47UF 25WV		C176			CC73GCH1H471J	CHIP C 470PF J	
C102			CK73GB1E105K	CHIP C 1.0UF K		C177-180			CK73GB1H104K	CHIP C 0.10UF K	
C103-105			CC73GCH1H471J	CHIP C 470PF J		C181			CC73GCH1H471J	CHIP C 470PF J	
C106,107			CK73GB1H103K	CHIP C 0.010UF K		C182			CC73GCH1H090D	CHIP C 9.0PF D	C
C108			CC73GCH1H471J	CHIP C 470PF J		C182			CC73GCH1H120G	CHIP C 12PF G	C2
C109			CK73GB1H104K	CHIP C 0.10UF K		C183			CC73GCH1H120J	CHIP C 12PF J	C
C110			CC73GCH1H471J	CHIP C 470PF J		C186			CC73GCH1H100D	CHIP C 10PF D	C
C111,112			CK73GB1H104K	CHIP C 0.10UF K		C186			CC73GCH1H120J	CHIP C 12PF J	C2
C113			CC73GCH1H471J	CHIP C 470PF J		C187			C93-0912-05	CHIP C 100UF M	
C114			CK73GB1H104K	CHIP C 0.10UF K		C188			CC73GCH1H471J	CHIP C 470PF J	
C115-117			CC73GCH1H471J	CHIP C 470PF J		C189			CC73GCH1H080B	CHIP C 8.0PF B	C
C120			CK73GB1H103K	CHIP C 0.010UF K		C189			CC73GCH1H090B	CHIP C 9.0PF B	C2
C122			CC73GCH1H471J	CHIP C 470PF J		C190			CC73GCH1H0R5B	CHIP C 0.5PF B	
C123			CS77CA1VR22M	CHIP TNTL 0.22UF 35WV		C191			CC73GCH1H020B	CHIP C 2.0PF B	
C124			CS77CC1C330M	CHIP TNTL 33UF 16WV		C192			CC73GCH1H471J	CHIP C 470PF J	
C126			CC73GCH1H471J	CHIP C 470PF J		C193			CC73GCH1H090B	CHIP C 9.0PF B	C
C132			CC73GCH1H080B	CHIP C 8.0PF B	C2	C193,194			CC73GCH1H120G	CHIP C 12PF G	C2
C132			CC73GCH1H090B	CHIP C 9.0PF B	C	C194			CC73GCH1H100C	CHIP C 10PF C	C
C133			CC73GCH1H070D	CHIP C 7.0PF D	C	C195			CC73GCH1H0R5B	CHIP C 0.5PF B	
C133			CC73GCH1H100C	CHIP C 10PF C	C2	C196-198			CC73GCH1H471J	CHIP C 470PF J	
C134			CC73GCH1H100D	CHIP C 10PF D	C	C201			CC73GCH1H471J	CHIP C 470PF J	
C134			CC73GCH1H270J	CHIP C 27PF J	C2	C202			CC73GCH1H070D	CHIP C 7.0PF D	
C135			CC73GCH1H471J	CHIP C 470PF J		C203,204			CC73GCH1H471J	CHIP C 470PF J	
C136			CC73GCH1H080B	CHIP C 8.0PF B	C2	C205			CK73GB1H103K	CHIP C 0.010UF K	
C136			CC73GCH1H090B	CHIP C 9.0PF B	C	C206			CC73GCH1H471J	CHIP C 470PF J	
C137			CK73GB1H103K	CHIP C 0.010UF K		C207			CC73GCH1H070D	CHIP C 7.0PF D	
C138			CC73GCH1H0R5B	CHIP C 0.5PF B		C208,209			CC73GCH1H471J	CHIP C 470PF J	
						C210,211			CC73GCH1H060D	CHIP C 6.0PF D	
						C212-215			CC73GCH1H471J	CHIP C 470PF J	C2
						C212,213			CC73GCH1H471J	CHIP C 470PF J	C

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Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C214			CC73GCH1H100D	CHIP C 10PF D	C	C314,315			CK73GB1H103K	CHIP C 0.010UF K	
C215			CC73GCH1H471J	CHIP C 470PF J	C	C316			CC73GCH1H100D	CHIP C 10PF D	
C216			CK73GB1H103K	CHIP C 0.010UF K		C317			CK73GB1H104K	CHIP C 0.10UF K	
C217			CC73GCH1H100D	CHIP C 10PF D		C318			CE32BM1E470M	CHIP EL 47UF 25WV	
C218			CC73GCH1H120J	CHIP C 12PF J		C319			CK73GB1H104K	CHIP C 0.10UF K	
C219			CC73GCH1H471J	CHIP C 470PF J		C320			CK73GB1H103K	CHIP C 0.010UF K	
C220			CK73GB1H104K	CHIP C 0.10UF K		C321			CC73GCH1H471J	CHIP C 470PF J	
C221			CC73GCH1H030C	CHIP C 3.0PF C		C323-326			CK73GB1H103K	CHIP C 0.010UF K	
C223			CC73GCH1H471J	CHIP C 470PF J		C327			CC73GCH1H181J	CHIP C 180PF J	
C224			CK73GB1H473K	CHIP C 0.047UF K		C328,329			C93-0912-05	CHIP C 100UF M	
C225,226			CC73GCH1H471J	CHIP C 470PF J		C330			CC73GCH1H470J	CHIP C 47PF J	
C227			CK73GB1H103K	CHIP C 0.010UF K		C331			CK73GB1H104K	CHIP C 0.10UF K	
C228			CC73GCH1H471J	CHIP C 470PF J		C332			CC73GCH1H331J	CHIP C 330PF J	
C230			CC73GCH1H471J	CHIP C 470PF J		C333			CS77CC1C100M	CHIP TNTL 10UF 16WV	
C231			CK73GB1H103K	CHIP C 0.010UF K		C334			CK73GB1H103K	CHIP C 0.010UF K	
C233			CC73GCH1H010C	CHIP C 1.0PF C		C335			CK73GB1H102K	CHIP C 1000PF K	
C234			CC73GCH1H471J	CHIP C 470PF J		C336			CC73GCH1H180J	CHIP C 18PF J	
C235			CK73GB1H103K	CHIP C 0.010UF K		C337			CK73GB1H103K	CHIP C 0.010UF K	
C237			CC73GCH1H471J	CHIP C 470PF J		C338			CS77CB21A470M	CHIP TNTL 47UF 10WV	
C240			CC73GCH1H221J	CHIP C 220PF J		C339			CC73GCH1H221J	CHIP C 220PF J	
C241			CC73GCH1H820J	CHIP C 82PF J		C340			CK73GB1H103K	CHIP C 0.010UF K	
C242			CC73GCH1H330J	CHIP C 33PF J		C341			CK73GB1H104K	CHIP C 0.10UF K	
C243,244			CC73GCH1H471J	CHIP C 470PF J		C342			CS77CB21A470M	CHIP TNTL 47UF 10WV	
C245			CC73GCH1H470J	CHIP C 47PF J		C343,344			CK73GB1H103K	CHIP C 0.010UF K	
C246,247			CC73GCH1H471J	CHIP C 470PF J		C345			CK73GB1H104K	CHIP C 0.10UF K	
C248			CC73GCH1H151J	CHIP C 150PF J		C346,347			CK73GB1H103K	CHIP C 0.010UF K	
C249			CE32CL1V100M	CHIP EL 10UF 35WV		C348			CC73GCH1H221J	CHIP C 220PF J	
C250			CK73GB1H104K	CHIP C 0.10UF K		C349,350			CC73GCH1H100D	CHIP C 10PF D	
C251,252			CK73GB1H103K	CHIP C 0.010UF K		C351			CS77CC1C100M	CHIP TNTL 10UF 16WV	
C253			CE32CL1V100M	CHIP EL 10UF 35WV		C352			CC73GCH1H180J	CHIP C 18PF J	
C254			CK73GB1H104K	CHIP C 0.10UF K		C353			CK73GB1H103K	CHIP C 0.010UF K	
C255,256			CK73GB1H103K	CHIP C 0.010UF K		C354			CC73GCH1H331J	CHIP C 330PF J	
C257-260			CK73GB1H104K	CHIP C 0.10UF K		C355			CC73GCH1H470J	CHIP C 47PF J	
C263			CC73GCH1H390J	CHIP C 39PF J		C356			CK73GB1H103K	CHIP C 0.010UF K	
C265			CC73GCH1H680J	CHIP C 68PF J		C357			CC73GCH1H181J	CHIP C 180PF J	
C267			CC73GCH1H390J	CHIP C 39PF J		C358			CK73GB1H104K	CHIP C 0.10UF K	
C269-272			CK73GB1H104K	CHIP C 0.10UF K		C359			CC73GCH1H100D	CHIP C 10PF D	
C275			CC73GCH1H471J	CHIP C 470PF J		C360			CK73GB1H103K	CHIP C 0.010UF K	
C276			CC73GCH1H271J	CHIP C 270PF J		C361			CK73GB1H104K	CHIP C 0.10UF K	
C277			CC73GCH1H471J	CHIP C 470PF J		C362			CC73GCH1H471J	CHIP C 470PF J	
C278			CC73GCH1H391J	CHIP C 390PF J		C363,364			CK73GB1H103K	CHIP C 0.010UF K	
C279			CC73GCH1H471J	CHIP C 470PF J		C365			CC73GCH1H471J	CHIP C 470PF J	
C280			CC73GCH1H271J	CHIP C 270PF J		C366			CC73GCH1H100D	CHIP C 10PF D	
C281			CC73GCH1H471J	CHIP C 470PF J		C367			CK73GB1H103K	CHIP C 0.010UF K	
C282-285			CK73GB1H104K	CHIP C 0.10UF K		C369,370			CK73GB1H103K	CHIP C 0.010UF K	
C286			CK73GB1H103K	CHIP C 0.010UF K		C372			CC73GCH1H180J	CHIP C 18PF J	
C287			CK73GB1H104K	CHIP C 0.10UF K		C373			CC73GCH1H470J	CHIP C 47PF J	
C301			CS77CA1C2R2M	CHIP TNTL 2.2UF 16WV		C375			CK73GB1H103K	CHIP C 0.010UF K	
C302			CC73GCH1H100D	CHIP C 10PF D		C376			CC73GCH1H471J	CHIP C 470PF J	
C303			CK73GB1H103K	CHIP C 0.010UF K		C378			CK73FB1C105K	CHIP C 1.0UF K	
C304			CC73GCH1H331J	CHIP C 330PF J		C379			CK73GB1H103K	CHIP C 0.010UF K	
C305			CC73GCH1H180J	CHIP C 18PF J		C381			CK73GB1H103K	CHIP C 0.010UF K	
C306			CK73FB0J106K	CHIP C 10UF K		C382			CC73GCH1H221J	CHIP C 220PF J	
C307			CK73GB1H104K	CHIP C 0.10UF K		C383			CC73GCH1H331J	CHIP C 330PF J	
C308			CC73GCH1H471J	CHIP C 470PF J		C384			CC73GCH1H181J	CHIP C 180PF J	
C309			CC73GCH1H331J	CHIP C 330PF J		C386			CE32CL1V100M	CHIP EL 10UF 35WV	
C310			CK73FB0J106K	CHIP C 10UF K		C387			CK73GB1H104K	CHIP C 0.10UF K	
C311			C93-0912-05	CHIP C 100UF M		C388			CC73GCH1H471J	CHIP C 470PF J	
C312			CK73GB1H103K	CHIP C 0.010UF K		C389			CK73GB1H102K	CHIP C 1000PF K	
C313			CC73GCH1H121J	CHIP C 120PF J		C390			CK73GB1H222K	CHIP C 2200PF K	

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Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C391			C93-0912-05	CHIP C 100UF M		C507,508			CC73GCH1H331J	CHIP C 330PF J	
C392,393			CC73GCH1H100D	CHIP C 10PF D		C509,510			CK73GB1H104K	CHIP C 0.10UF K	
C401			CK73GB1H103K	CHIP C 0.010UF K		C511			CC73GCH1H470J	CHIP C 47PF J	
C402,403			CK73GB1H104K	CHIP C 0.10UF K		C512			CC73GCH1H471J	CHIP C 470PF J	
C404			CK73GB1H103K	CHIP C 0.010UF K		C513			CC73GCH1H010C	CHIP C 1.0PF C	
C405			CC73GCH1H471J	CHIP C 470PF J		C514			CC73GCH1H121J	CHIP C 120PF J	
C406-412			CK73GB1H103K	CHIP C 0.010UF K		C515			CC73GCH1H030C	CHIP C 3.0PF C	
C413			CC73GCH1H471J	CHIP C 470PF J		C516,517			CK73GB1H104K	CHIP C 0.10UF K	
C414-416			CK73GB1H103K	CHIP C 0.010UF K		C519			CK73GB1H104K	CHIP C 0.10UF K	
C419			CK73FB0J106K	CHIP C 10UF K		C520			CC73GCH1H221J	CHIP C 220PF J	
C420			CK73GB1H103K	CHIP C 0.010UF K		C521-527			CK73GB1H104K	CHIP C 0.10UF K	
C422			CK73GB1H103K	CHIP C 0.010UF K		C529-532			CK73GB1H104K	CHIP C 0.10UF K	
C423			CE32BM1E470M	CHIP EL 47UF 25WV		C533			CC73GCH1H471J	CHIP C 470PF J	
C425			CC73GCH1H181J	CHIP C 180PF J		C534-537			CK73GB1H104K	CHIP C 0.10UF K	
C427			CC73GCH1H470J	CHIP C 47PF J		C538			CC73GCH1H471J	CHIP C 470PF J	
C429			CC73GCH1H331J	CHIP C 330PF J		C539			CK73GB1H104K	CHIP C 0.10UF K	
C430			CC73GCH1H180J	CHIP C 18PF J		C541,542			CC73GCH1H100D	CHIP C 10PF D	
C433			CC73GCH1H221J	CHIP C 220PF J		C543-547			CK73GB1H104K	CHIP C 0.10UF K	
C435			CK73GB1H104K	CHIP C 0.10UF K		C548			CC73GCH1H471J	CHIP C 470PF J	
C436			CS77BA1E010M	CHIP TINTL 1.0UF 25WV		C549-552			CK73GB1H104K	CHIP C 0.10UF K	
C437			CK73GB1H103K	CHIP C 0.010UF K		C554-556			CK73GB1H104K	CHIP C 0.10UF K	
C439-443			CK73GB1H103K	CHIP C 0.010UF K		C557			CC73GCH1H030C	CHIP C 3.0PF C	
C445			CS77CA1V0R1M	CHIP TINTL 0.1UF 35WV		C558,559			CK73GB1H104K	CHIP C 0.10UF K	
C446			CK73FB1E473K	CHIP C 0.047UF K		C562			CK73GB1H104K	CHIP C 0.10UF K	
C447			CK73FB0J106K	CHIP C 10UF K		C563			CC73GCH1H121J	CHIP C 120PF J	
C448			CK73GB1H104K	CHIP C 0.10UF K		C564			CC73GCH1H470J	CHIP C 47PF J	
C449			CK73GB1H103K	CHIP C 0.010UF K		C565			CK73GB1H104K	CHIP C 0.10UF K	
C451			CK73GB1H104K	CHIP C 0.10UF K		C568			CC73GCH1H221J	CHIP C 220PF J	
C452			CK73FB0J106K	CHIP C 10UF K		C569			CC73GCH1H471J	CHIP C 470PF J	
C453			CC73GCH1H181J	CHIP C 180PF J		C570			CC73GCH1H010C	CHIP C 1.0PF C	
C454			CC73GCH1H470J	CHIP C 47PF J		C571			CC73GCH1H331J	CHIP C 330PF J	
C455			CK73GB1H103K	CHIP C 0.010UF K		C573,574			CC73GCH1H331J	CHIP C 330PF J	
C456			CC73GCH1H331J	CHIP C 330PF J		C575,576			CC73GCH1H180J	CHIP C 18PF J	
C457			CC73GCH1H181J	CHIP C 180PF J		C577,578			CC73GCH1H331J	CHIP C 330PF J	
C458			CC73GCH1H470J	CHIP C 47PF J		C601-605			CK73GB1H104K	CHIP C 0.10UF K	
C459			CC73GCH1H180J	CHIP C 18PF J		C610			CK73GB1H104K	CHIP C 0.10UF K	
C460			CC73GCH1H331J	CHIP C 330PF J		C612,613			CK73GB1H104K	CHIP C 0.10UF K	
C461			CC73GCH1H221J	CHIP C 220PF J		C614			CC73GCH1H100D	CHIP C 10PF D	
C462			CC73GCH1H180J	CHIP C 18PF J		C616			CC73GCH1H270J	CHIP C 27PF J	
C463			CK73GB1H104K	CHIP C 0.10UF K		C619			CC73GCH1H100D	CHIP C 10PF D	
C464,465			CK73GB1H103K	CHIP C 0.010UF K		C620-623			CK73GB1H104K	CHIP C 0.10UF K	
C466			CC73GCH1H221J	CHIP C 220PF J		C624-627			CC73GCH1H560J	CHIP C 56PF J	
C467			CK73FB1C105K	CHIP C 1.0UF K		C628-631			CK73GB1H104K	CHIP C 0.10UF K	
C468,469			CK73GB1H103K	CHIP C 0.010UF K		C632-634			CK73GB1H103K	CHIP C 0.010UF K	
C470			CK73GB1H104K	CHIP C 0.10UF K		C635,636			CK73GB1H104K	CHIP C 0.10UF K	
C471-482			CK73GB1H103K	CHIP C 0.010UF K		C637			CK73GB1H103K	CHIP C 0.010UF K	
C483-486			CK73GB1H104K	CHIP C 0.10UF K		C638			CC73GCH1H470J	CHIP C 47PF J	
C487			CK73GB1H103K	CHIP C 0.010UF K		C639			CC73GCH1H180J	CHIP C 18PF J	
C488-490			CK73GB1H104K	CHIP C 0.10UF K		C640			CC73GCH1H181J	CHIP C 180PF J	
C491			CC73GCH1H470J	CHIP C 47PF J		C641			CC73GCH1H331J	CHIP C 330PF J	
C492-495			CK73GB1H104K	CHIP C 0.10UF K		C642			CC73GCH1H221J	CHIP C 220PF J	
C496			CC73GCH1H221J	CHIP C 220PF J		C643			CC73GCH1H471J	CHIP C 470PF J	
C497			CK73GB1H104K	CHIP C 0.10UF K		C645			CC73GCH1H471J	CHIP C 470PF J	
C498			CC73GCH1H121J	CHIP C 120PF J		C656,657			CK73GB1H103K	CHIP C 0.010UF K	
C499			CK73GB1H104K	CHIP C 0.10UF K		C658			CK73GB1H104K	CHIP C 0.10UF K	
C500			CC73GCH1H471J	CHIP C 470PF J		C659,660			CK73GB1H103K	CHIP C 0.010UF K	
C501,502			CK73GB1H104K	CHIP C 0.10UF K		C661			CK73FB0J106K	CHIP C 10UF K	
C503			CC73GCH1H470J	CHIP C 47PF J		C662,663			CK73GB1H104K	CHIP C 0.10UF K	
C504			CC73GCH1H010C	CHIP C 1.0PF C		C703			CK73GB1H104K	CHIP C 0.10UF K	
C505,506			CK73GB1H104K	CHIP C 0.10UF K		C704			CK73FB0J106K	CHIP C 10UF K	

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Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C707			CK73GB1H102K	CHIP C 1000PF K		C941			CK73GB1H102K	CHIP C 1000PF K	
C708			CK73GB1H104K	CHIP C 0.10UF K		C943			CK73GB1H104K	CHIP C 0.10UF K	
C709			CE32CL1V100M	CHIP EL 10UF 35WV		C960-965			CK73GB1H104K	CHIP C 0.10UF K	
C710			CK73GB1H104K	CHIP C 0.10UF K							
C711			CK73GB1H103K	CHIP C 0.010UF K		CN102-121			E23-1280-05	TERMINAL	
						CN130			E23-1330-05	TERMINAL	
C712,713			CC73GCH1H471J	CHIP C 470PF J		CN403			E04-0193-05	PIN SOCKET	
C714			CK73GB1H103K	CHIP C 0.010UF K		CN405,406			E04-0193-05	PIN SOCKET	
C715			CE32CL1V100M	CHIP EL 10UF 35WV		CN407			E04-0154-05	PIN SOCKET	
C716			CK73GB1H103K	CHIP C 0.010UF K							
C717,718			CC73GCH1H471J	CHIP C 470PF J		CN408			E04-0193-05	PIN SOCKET	
						CN801			E41-2672-05	PIN ASSY	
C719			CK73GB1H103K	CHIP C 0.010UF K		CN802			E04-0193-05	PIN SOCKET	
C720,721			CE32CL1V100M	CHIP EL 10UF 35WV		CN803			E40-6822-05	FLAT CABLE CONNECTOR	
C722			CK73GB1H103K	CHIP C 0.010UF K		CN804-806			E40-6656-05	PIN ASSY	
C723,724			CC73GCH1H471J	CHIP C 470PF J							
C725			CK73GB1H103K	CHIP C 0.010UF K		CN807			E41-2671-05	PIN ASSY	
						CN920			E41-1493-05	PIN ASSY	
C801-803			CK73GB1H104K	CHIP C 0.10UF K		CN921			E40-6656-05	PIN ASSY	
C804			CC73GCH1H471J	CHIP C 470PF J		CN923			E41-1483-05	PIN ASSY	
C805			CK73GB1H104K	CHIP C 0.10UF K		CN960			E41-1493-05	PIN ASSY	
C806			CE32CL1V100M	CHIP EL 10UF 35WV							
C807			CK73FB1C105K	CHIP C 1.0UF K		E100			F10-3081-04	SHIELDING CASE	
C808,809			CK73GB1H104K	CHIP C 0.10UF K		CF201			L72-1029-05	CERAMIC FILTER	
C810			CC73GCH1H471J	CHIP C 470PF J		CF601			L72-1019-05	CERAMIC FILTER	
C811			CK73GB1H104K	CHIP C 0.10UF K		L105,106			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C812			CK73GB1H103K	CHIP C 0.010UF K		L108			L34-4545-05	AIR-CORE COIL	
C813			CC73GCH1H471J	CHIP C 470PF J		L109-111			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C814			CK73GB1H104K	CHIP C 0.10UF K		L112,113			L41-1875-33	SMALL FIXED INDUCTOR (0.018UH)	
C816			CE32CL1V100M	CHIP EL 10UF 35WV		L116-119			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	
C817			CK73GB1H103K	CHIP C 0.010UF K		L120			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	
C818			CE32CL1V100M	CHIP EL 10UF 35WV		L121-124			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C819			CC73GCH1H471J	CHIP C 470PF J		L125,126			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C820,821			CK73GB1H104K	CHIP C 0.10UF K		L128			L34-4545-05	AIR-CORE COIL	
C822			CK73GB1H103K	CHIP C 0.010UF K		L129-131			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C823,824			CC73GCH1H471J	CHIP C 470PF J		L201,202			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	
C825			CK73GB1H103K	CHIP C 0.010UF K		L203,204			L41-1275-33	SMALL FIXED INDUCTOR (0.012UH)	
C826			CC73GCH1H471J	CHIP C 470PF J		L205			L34-4604-15	AIR-CORE COIL	
C827			CK73GB1H103K	CHIP C 0.010UF K		L207			L34-4607-15	AIR-CORE COIL	
C848			C92-0904-05	OS-CON 22UF 35WV		L208			L34-4606-15	AIR-CORE COIL	
C850			CK73GB1H103K	CHIP C 0.010UF K		L210			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
C856			CE32AU1E100M	CHIP EL 10UF 25WV		L211			L41-1895-33	SMALL FIXED INDUCTOR (1.8UH)	
C857			CK73GB1H103K	CHIP C 0.010UF K		L212,213			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C858,859			CC73GCH1H471J	CHIP C 470PF J		L214,215			L41-4705-33	SMALL FIXED INDUCTOR (47UH)	
C860			CK73GB1H103K	CHIP C 0.010UF K		L216,217			L41-2295-33	SMALL FIXED INDUCTOR (2.2UH)	
C885			CK73GB1H104K	CHIP C 0.10UF K		L218			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)	
C886			CC73GCH1H270J	CHIP C 27PF J		L219			L41-6895-33	SMALL FIXED INDUCTOR (6.8UH)	
C887			CC73GCH1H100D	CHIP C 10PF D		L301			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
C888			CC73GCH1H270J	CHIP C 27PF J		L302			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C889			CK73GB1H104K	CHIP C 0.10UF K		L303			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C890			CK73GB1E105K	CHIP C 1.0UF K		L304			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C894,895			CK73GB1H103K	CHIP C 0.010UF K		L305			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)	
C896			CC73GCH1H100D	CHIP C 10PF D		L306			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C920-925			CK73GB1H104K	CHIP C 0.10UF K		L307,308			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
C926			CK73GB1H102K	CHIP C 1000PF K		L309			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C928,929			CK73GB1H104K	CHIP C 0.10UF K		L310			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)	
C930,931			CK73GB1E105K	CHIP C 1.0UF K		L311			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
C932			CC73GCH1H470J	CHIP C 47PF J		L312			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)	
C933,934			CS77CA1A1R5M	CHIP TNTL 1.5UF 10WV		L313			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C935,936			CK73GB1H104K	CHIP C 0.10UF K		L314			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C937			CK73GB1H103K	CHIP C 0.010UF K		L401-403			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C938			CK73FB0J106K	CHIP C 10UF K		L404			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C939			CK73GB1H102K	CHIP C 1000PF K		L405			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)	

PARTS LIST / 零件表

TX UNIT (X56-312X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
L406			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R138			RK73GB2A103J	CHIP R 10K J 1/10W	
L407			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R139			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L408			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R141			RK73GB2A101J	CHIP R 100 J 1/10W	C
L409,410			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)		R141			RK73GB2A820J	CHIP R 82 J 1/10W	C2
L411			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R142			RK73GB2A221J	CHIP R 220 J 1/10W	C
L412			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R142			RK73GB2A331J	CHIP R 330 J 1/10W	C2
L413			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R144,145			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L414,415			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R146			RK73GB2A271J	CHIP R 270 J 1/10W	
L416,417			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R147			RK73GB2A180J	CHIP R 18 J 1/10W	
L418			L41-5685-33	SMALL FIXED INDUCTOR (0.56UH)		R148			RK73GB2A271J	CHIP R 270 J 1/10W	
L419,420			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)		R149			RK73GB2A221J	CHIP R 220 J 1/10W	
L421			L41-5685-33	SMALL FIXED INDUCTOR (0.56UH)		R150			RK73GB2A820J	CHIP R 82 J 1/10W	
L422			L39-1517-05	TOROIDAL COIL		R151			RK73GB2A101J	CHIP R 100 J 1/10W	
L423			L41-3305-33	SMALL FIXED INDUCTOR (33UH)		R152			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L424			L39-1517-05	TOROIDAL COIL		R153			RK73GB2A271J	CHIP R 270 J 1/10W	
L425			L41-3305-33	SMALL FIXED INDUCTOR (33UH)		R154			RK73GB2A180J	CHIP R 18 J 1/10W	
L426,427			L39-1517-05	TOROIDAL COIL		R155			RK73GB2A682J	CHIP R 6.8K J 1/10W	
L430			L41-5685-33	SMALL FIXED INDUCTOR (0.56UH)		R156			RK73GB2A182J	CHIP R 1.8K J 1/10W	
L431			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)		R157			RK73GB2A271J	CHIP R 270 J 1/10W	
L433,434			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R158			RK73GB2A103J	CHIP R 10K J 1/10W	
L435			L41-2205-33	SMALL FIXED INDUCTOR (22UH)		R159-161			RK73GB2A104J	CHIP R 100K J 1/10W	
L601,602			L41-3305-33	SMALL FIXED INDUCTOR (33UH)		R164			RK73GB2A104J	CHIP R 100K J 1/10W	
L603,604			L41-4705-33	SMALL FIXED INDUCTOR (47UH)		R165-168			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L605			L41-2205-33	SMALL FIXED INDUCTOR (22UH)		R170			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L606,607			L41-1205-33	SMALL FIXED INDUCTOR (12UH)		R171,172			RK73GB2A470J	CHIP R 47 J 1/10W	
L608			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R173,174			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L609			L92-0140-05	CHIP FERRITE		R176			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L610			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R178			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L611			L92-0140-05	CHIP FERRITE		R179			RK73GB2A224J	CHIP R 220K J 1/10W	C2
L612			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)		R179			RK73GB2A334J	CHIP R 330K J 1/10W	C
L613			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R180			RK73GB2A101J	CHIP R 100 J 1/10W	
L614			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R181			RK73GB2A184J	CHIP R 180K J 1/10W	
L801			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R182			RN73GE1J101D	CHIP R 100 D 1/16W	C
L812			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R182			RN73GE1J151D	CHIP R 150 D 1/16W	C2
X301			L77-1981-05	VCXO (19.2MHZ)		R183			RN73GE1J181D	CHIP R 180 D 1/16W	
X401			L77-1981-05	VCXO (19.2MHZ)		R184			RK73GB2A470J	CHIP R 47 J 1/10W	
X601			L77-3034-05	TCXO (19.2MHZ)		R185,186			RK73GB2A103J	CHIP R 10K J 1/10W	
CP920			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		R187,188			RK73GB2A000J	CHIP R 0.0 J 1/10W	
CP923			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		R189-191			RK73GB2A103J	CHIP R 10K J 1/10W	
CP924			RK75GB1JR00	CHIP-COM 0.00 1/16W		R201			RK73GB2A121J	CHIP R 120 J 1/10W	
CP926			RK74GB1J681J	CHIP-COM 680 J 1/16W		R202			RK73GB2A470J	CHIP R 47 J 1/10W	
CP928			RK74GB1J681J	CHIP-COM 680 J 1/16W		R203			RK73GB2A121J	CHIP R 120 J 1/10W	
CP961,962			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		R204			RK73GB2A103J	CHIP R 10K J 1/10W	
CP965,966			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		R205			RK73GB2A272J	CHIP R 2.7K J 1/10W	
CP970,971			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		R206			RK73GB2A181J	CHIP R 180 J 1/10W	
CP973,974			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		R207			RK73GB2A121J	CHIP R 120 J 1/10W	
R101			RK73GB2A000J	CHIP R 0.0 J 1/10W		R208			RK73GB2A101J	CHIP R 100 J 1/10W	
R118			RK73GB2A000J	CHIP R 0.0 J 1/10W		R210			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R119			RK73GB2A820J	CHIP R 82 J 1/10W		R212			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R120			RK73GB2A151J	CHIP R 150 J 1/10W		R213			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R123			RK73GB2A000J	CHIP R 0.0 J 1/10W		R215			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R124,125			RK73GB2A105J	CHIP R 1.0M J 1/10W		R216			RK73GB2A470J	CHIP R 47 J 1/10W	
R129			RK73GB2A101J	CHIP R 100 J 1/10W		R218			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R131			RN73GE1J101D	CHIP R 100 D 1/16W		R220			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R132			RN73GE1J181D	CHIP R 180 D 1/16W		R221			RK73GB2A103J	CHIP R 10K J 1/10W	
R133			RK73GB2A470J	CHIP R 47 J 1/10W		R222			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R134			RK73GB2A220J	CHIP R 22 J 1/10W		R223			RK73GB2A123J	CHIP R 12K J 1/10W	
R135			RK73GB2A272J	CHIP R 2.7K J 1/10W		R224			RK73GB2A221J	CHIP R 220 J 1/10W	
R137			RK73GB2A102J	CHIP R 1.0K J 1/10W		R225			RK73GB2A474J	CHIP R 470K J 1/10W	
						R226			RK73GB2A220J	CHIP R 22 J 1/10W	

NXR-800H

PARTS LIST / 零件表

TX UNIT (X56-312X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R227			RK73GB2A000J	CHIP R 0.0 J 1/10W		R335			RK73GB2A223J	CHIP R 22K J 1/10W	
R229			RK73GB2A563J	CHIP R 56K J 1/10W		R336			RK73GB2A334J	CHIP R 330K J 1/10W	
R230			RK73FB2B4R7J	CHIP R 4.7 J 1/8W		R337			RK73GB2A273J	CHIP R 27K J 1/10W	
R231,232			RK73GB2A000J	CHIP R 0.0 J 1/10W		R338			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R233			RK73GB2A104J	CHIP R 100K J 1/10W		R339			RK73GB2A104J	CHIP R 100K J 1/10W	
R234,235			RK73GB2A474J	CHIP R 470K J 1/10W		R340			RK73GB2A101J	CHIP R 100 J 1/10W	
R236			RK73GB2A821J	CHIP R 820 J 1/10W		R341			RK73GB2A221J	CHIP R 220 J 1/10W	
R241			RK73GB2A000J	CHIP R 0.0 J 1/10W		R342			RK73GB2A470J	CHIP R 47 J 1/10W	
R242			RK73GB2A474J	CHIP R 470K J 1/10W		R343			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R243			RK73GB2A392J	CHIP R 3.9K J 1/10W		R344-351			RK73GB2A104J	CHIP R 100K J 1/10W	
R244-246			RK73GB2A102J	CHIP R 1.0K J 1/10W		R352			RK73GB2A123J	CHIP R 12K J 1/10W	
R247-249			RK73GB2A104J	CHIP R 100K J 1/10W		R353			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R250			RK73GB2A474J	CHIP R 470K J 1/10W		R355			RK73GB2A221J	CHIP R 220 J 1/10W	
R251			RK73GB2A100J	CHIP R 10 J 1/10W		R356			RK73GB2A100J	CHIP R 10 J 1/10W	
R252			RK73GB2A104J	CHIP R 100K J 1/10W		R357			RK73GB2A101J	CHIP R 100 J 1/10W	
R253			RK73GB2A331J	CHIP R 330 J 1/10W		R358			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R254			RK73GB2A100J	CHIP R 10 J 1/10W		R360			RK73GB2A104J	CHIP R 100K J 1/10W	
R255			RK73GB2A274J	CHIP R 270K J 1/10W		R362			RK73GB2A100J	CHIP R 10 J 1/10W	
R256			RK73GB2A102J	CHIP R 1.0K J 1/10W		R363			RK73GB2A471J	CHIP R 470 J 1/10W	
R257,258			RK73GB2A000J	CHIP R 0.0 J 1/10W		R364			RK73GB2A104J	CHIP R 100K J 1/10W	
R259			RK73GB2A562J	CHIP R 5.6K J 1/10W		R367			RK73GB2A104J	CHIP R 100K J 1/10W	
R260			RK73GB2A331J	CHIP R 330 J 1/10W		R368			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R261			RK73GB2A562J	CHIP R 5.6K J 1/10W		R369			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R262			RK73GB2A102J	CHIP R 1.0K J 1/10W		R370			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R263			RK73GB2A563J	CHIP R 56K J 1/10W		R371			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R264			RK73GB2A100J	CHIP R 10 J 1/10W		R374			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R265			RK73GB2A471J	CHIP R 470 J 1/10W		R375,376			RK73GB2A563J	CHIP R 56K J 1/10W	
R266			RK73GB2A000J	CHIP R 0.0 J 1/10W		R377,378			RK73GB2A104J	CHIP R 100K J 1/10W	
R267			RK73GB2A271J	CHIP R 270 J 1/10W		R379			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R268			RK73GB2A180J	CHIP R 18 J 1/10W		R380			RK73GB2A470J	CHIP R 47 J 1/10W	
R269			RK73GB2A271J	CHIP R 270 J 1/10W		R381			RK73GB2A104J	CHIP R 100K J 1/10W	
R270,271			RK73GB2A472J	CHIP R 4.7K J 1/10W		R401			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R272			RK73GB2A100J	CHIP R 10 J 1/10W		R402			RK73GB2A474J	CHIP R 470K J 1/10W	
R274			RK73GB2A221J	CHIP R 220 J 1/10W		R403,404			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R276			RK73GB2A000J	CHIP R 0.0 J 1/10W		R406-408			RK73GB2A100J	CHIP R 10 J 1/10W	
R301,302			RK73GB2A473J	CHIP R 47K J 1/10W		R409			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R303			RK73GB2A000J	CHIP R 0.0 J 1/10W		R410			RK73GB2A331J	CHIP R 330 J 1/10W	
R304			RK73GB2A471J	CHIP R 470 J 1/10W		R411			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R305			RK73GB2A104J	CHIP R 100K J 1/10W		R412			RK73GB2A331J	CHIP R 330 J 1/10W	
R306-309			RK73GB2A102J	CHIP R 1.0K J 1/10W		R413			RK73GB2A123J	CHIP R 12K J 1/10W	
R310,311			RK73GB2A104J	CHIP R 100K J 1/10W		R414			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R312			RK73GB2A154J	CHIP R 150K J 1/10W		R415			RK73GB2A123J	CHIP R 12K J 1/10W	
R313			RK73GB2A2R2J	CHIP R 2.2 J 1/10W		R416			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R314			RK73GB2A000J	CHIP R 0.0 J 1/10W		R417,418			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R316			RK73GB2A223J	CHIP R 22K J 1/10W	C2	R422-424			RK73GB2A474J	CHIP R 470K J 1/10W	
R316			RK73GB2A273J	CHIP R 27K J 1/10W	C	R425			RK73GB2A104J	CHIP R 100K J 1/10W	
R317			RK73GB2A104J	CHIP R 100K J 1/10W		R427			RK73GB2A100J	CHIP R 10 J 1/10W	
R318			RK73GB2A472J	CHIP R 4.7K J 1/10W		R430,431			RK73GB2A100J	CHIP R 10 J 1/10W	
R319			RK73GB2A104J	CHIP R 100K J 1/10W		R433			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R320			RK73GB2A470J	CHIP R 47 J 1/10W		R434			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R321-323			RK73GB2A100J	CHIP R 10 J 1/10W		R435			RK73GB2A104J	CHIP R 100K J 1/10W	
R324			RK73GB2A682J	CHIP R 6.8K J 1/10W		R436,437			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R325			RK73GB2A332J	CHIP R 3.3K J 1/10W		R438			RK73GB2A104J	CHIP R 100K J 1/10W	
R326			RK73GB2A100J	CHIP R 10 J 1/10W		R439			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R327,328			RK73GB2A000J	CHIP R 0.0 J 1/10W		R440			RK73GB2A103J	CHIP R 10K J 1/10W	
R329,330			RK73GB2A104J	CHIP R 100K J 1/10W		R442			RK73GB2A470J	CHIP R 47 J 1/10W	
R331,332			RK73GB2A471J	CHIP R 470 J 1/10W		R447			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R333			RK73GB2A000J	CHIP R 0.0 J 1/10W		R452,453			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R334			RK73GB2A104J	CHIP R 100K J 1/10W	C	R454,455			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R334			RK73GB2A823J	CHIP R 82K J 1/10W	C2	R457			RK73GB2A333J	CHIP R 33K J 1/10W	

PARTS LIST / 零件表

TX UNIT (X56-312X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R458			RK73GB2A104J	CHIP R 100K J 1/10W		R533			RK73GB2A104J	CHIP R 100K J 1/10W	
R459			RK73GB2A472J	CHIP R 4.7K J 1/10W		R534			RK73GB2A221J	CHIP R 220 J 1/10W	
R460			RK73GB2A183J	CHIP R 18K J 1/10W		R535			RK73GB2A104J	CHIP R 100K J 1/10W	
R461			RK73GB2A000J	CHIP R 0.0 J 1/10W		R536			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R463			RK73GB2A000J	CHIP R 0.0 J 1/10W		R538			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R464			RK73GB2A221J	CHIP R 220 J 1/10W		R539			RK73GB2A100J	CHIP R 10 J 1/10W	
R465			RK73GB2A000J	CHIP R 0.0 J 1/10W		R540			RK73GB2A474J	CHIP R 470K J 1/10W	
R466			RK73GB2A470J	CHIP R 47 J 1/10W		R541			RK73FB2B1R0J	CHIP R 1.0 J 1/8W	
R469,470			RK73GB2A000J	CHIP R 0.0 J 1/10W		R542			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R471			RK73GB2A102J	CHIP R 1.0K J 1/10W		R543			RK73GB2A220J	CHIP R 22 J 1/10W	
R474			RK73GB2A682J	CHIP R 6.8K J 1/10W		R544			RK73GB2A104J	CHIP R 100K J 1/10W	
R475			RK73GB2A332J	CHIP R 3.3K J 1/10W		R545			RK73GB2A470J	CHIP R 47 J 1/10W	
R476,477			RK73GB2A000J	CHIP R 0.0 J 1/10W		R547			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R478			RK73GB2A153J	CHIP R 15K J 1/10W		R548			RK73GB2A473J	CHIP R 47K J 1/10W	
R479			RK73GB2A2R2J	CHIP R 2.2 J 1/10W		R549			RK73GB2A331J	CHIP R 330 J 1/10W	
R480			RK73GB2A682J	CHIP R 6.8K J 1/10W		R550			RK73GB2A104J	CHIP R 100K J 1/10W	
R481			RK73GB2A182J	CHIP R 1.8K J 1/10W		R551			RK73GB2A473J	CHIP R 47K J 1/10W	
R482			RK73GB2A103J	CHIP R 10K J 1/10W		R552			RK73GB2A104J	CHIP R 100K J 1/10W	
R483			RK73GB2A562J	CHIP R 5.6K J 1/10W		R553			RK73GB2A223J	CHIP R 22K J 1/10W	
R484			RK73GB2A101J	CHIP R 100 J 1/10W		R554			RK73GB2A180J	CHIP R 18 J 1/10W	
R485			RK73GB2A392J	CHIP R 3.9K J 1/10W		R555			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R486			RK73GB2A221J	CHIP R 220 J 1/10W		R556			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R487			RK73GB2A102J	CHIP R 1.0K J 1/10W		R557			RK73GB2A473J	CHIP R 47K J 1/10W	
R488			RK73GB2A822J	CHIP R 8.2K J 1/10W		R558			RK73GB2A331J	CHIP R 330 J 1/10W	
R489			RK73GB2A272J	CHIP R 2.7K J 1/10W		R560			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R490			RK73GB2A470J	CHIP R 47 J 1/10W		R561			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R492			RK73GB2A471J	CHIP R 470 J 1/10W		R562			RK73GB2A104J	CHIP R 100K J 1/10W	
R493			RK73GB2A104J	CHIP R 100K J 1/10W		R563			RK73GB2A473J	CHIP R 47K J 1/10W	
R494			RK73GB2A123J	CHIP R 12K J 1/10W		R564			RK73GB2A223J	CHIP R 22K J 1/10W	
R495			RK73GB2A332J	CHIP R 3.3K J 1/10W		R566			RK73GB2A473J	CHIP R 47K J 1/10W	
R496,497			RK73GB2A100J	CHIP R 10 J 1/10W		R567			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R498			RK73GB2A471J	CHIP R 470 J 1/10W		R568			RK73GB2A224J	CHIP R 220K J 1/10W	
R499			RK73GB2A682J	CHIP R 6.8K J 1/10W		R569			RK73GB2A561J	CHIP R 560 J 1/10W	
R500			RK73GB2A332J	CHIP R 3.3K J 1/10W		R570			RK73GB2A473J	CHIP R 47K J 1/10W	
R501			RK73GB2A221J	CHIP R 220 J 1/10W		R571			RK73GB2A100J	CHIP R 10 J 1/10W	
R502			RK73GB2A000J	CHIP R 0.0 J 1/10W		R573			RK73GB2A104J	CHIP R 100K J 1/10W	
R503			RK73GB2A100J	CHIP R 10 J 1/10W		R575			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R504			RK73GB2A104J	CHIP R 100K J 1/10W		R576			RK73FB2B1R0J	CHIP R 1.0 J 1/8W	
R505			RK73GB2A000J	CHIP R 0.0 J 1/10W		R577			RK73GB2A104J	CHIP R 100K J 1/10W	
R506			RK73GB2A101J	CHIP R 100 J 1/10W		R578			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R507			RK73GB2A100J	CHIP R 10 J 1/10W		R580			RK73GB2A220J	CHIP R 22 J 1/10W	
R508-510			RK73GB2A000J	CHIP R 0.0 J 1/10W		R581			RK73GB2A104J	CHIP R 100K J 1/10W	
R511			RK73GB2A102J	CHIP R 1.0K J 1/10W		R582			RK73GB2A474J	CHIP R 470K J 1/10W	
R512			RK73GB2A181J	CHIP R 180 J 1/10W		R583			RK73GB2A221J	CHIP R 220 J 1/10W	
R513			RK73GB2A471J	CHIP R 470 J 1/10W		R586			RK73GB2A104J	CHIP R 100K J 1/10W	
R514			RK73GB2A100J	CHIP R 10 J 1/10W		R588			RK73GB2A103J	CHIP R 10K J 1/10W	
R515			RK73GB2A470J	CHIP R 47 J 1/10W		R591			RK73FB2B271J	CHIP R 270 J 1/8W	
R518			RK73GB2A104J	CHIP R 100K J 1/10W		R592			RK73GB2A273J	CHIP R 27K J 1/10W	
R519			RK73GB2A124J	CHIP R 120K J 1/10W		R593			RK73FB2B120J	CHIP R 12 J 1/8W	
R521			RK73GB2A223J	CHIP R 22K J 1/10W		R594			RK73FB2B271J	CHIP R 270 J 1/8W	
R522			RK73GB2A822J	CHIP R 8.2K J 1/10W		R595			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R523,524			RK73GB2A221J	CHIP R 220 J 1/10W		R601			RK73GB2A103J	CHIP R 10K J 1/10W	
R525			RK73GB2A471J	CHIP R 470 J 1/10W		R602			RK73GB2A104J	CHIP R 100K J 1/10W	
R526			RK73GB2A473J	CHIP R 47K J 1/10W		R603			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R527			RK73GB2A271J	CHIP R 270 J 1/10W		R604			RK73GB2A473J	CHIP R 47K J 1/10W	
R528			RK73GB2A152J	CHIP R 1.5K J 1/10W		R605			RK73GB2A153J	CHIP R 15K J 1/10W	
R529			RK73GB2A153J	CHIP R 15K J 1/10W		R606			RK73GB2A181J	CHIP R 180 J 1/10W	
R530			RK73GB2A120J	CHIP R 12 J 1/10W		R607			RK73GB2A470J	CHIP R 47 J 1/10W	
R531			RK73GB2A474J	CHIP R 470K J 1/10W		R608			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R532			RK73GB2A271J	CHIP R 270 J 1/10W		R610			RK73GB2A104J	CHIP R 100K J 1/10W	

NXR-800H

PARTS LIST / 零件表

TX UNIT (X56-312X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R611			RK73GB2A100J	CHIP R 10 J 1/10W		R943			RK73GH2A224D	CHIP R 220K D 1/10W	
R612			RK73GB2A471J	CHIP R 470 J 1/10W		R944,945			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R613			RK73GB2A682J	CHIP R 6.8K J 1/10W		R946			RK73GB2A103J	CHIP R 10K J 1/10W	
R614			RK73GB2A332J	CHIP R 3.3K J 1/10W		R947			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R615			RK73GB2A471J	CHIP R 470 J 1/10W		R948,949			RK73GH2A104D	CHIP R 100K D 1/10W	
R616			RK73GB2A000J	CHIP R 0.0 J 1/10W		R950			RK73GH2A822D	CHIP R 8.2K D 1/10W	
R617			RK73GB2A471J	CHIP R 470 J 1/10W		R951			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R618			RK73GB2A104J	CHIP R 100K J 1/10W		R960-965			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R619			RK73GB2A100J	CHIP R 10 J 1/10W		R966,967			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R620			RK73GB2A104J	CHIP R 100K J 1/10W		VR401,402			R32-0754-05	SEMI FIXED VARIABLE RESISTOR (10K)	
R621			RK73GB2A471J	CHIP R 470 J 1/10W		S920-925			S70-0502-05	TACT SWITCH	
R622			RK73GB2A331J	CHIP R 330 J 1/10W		D101,102			1SV283F	VARIABLE CAPACITANCE DIODE	
R623			RK73GB2A392J	CHIP R 3.9K J 1/10W		D106			1SV278F	VARIABLE CAPACITANCE DIODE	
R624			RK73GB2A474J	CHIP R 470K J 1/10W		D107,108			1SV283F	VARIABLE CAPACITANCE DIODE	
R625			RK73GB2A000J	CHIP R 0.0 J 1/10W		D112			1SV278F	VARIABLE CAPACITANCE DIODE	
R626-628			RK73GB2A102J	CHIP R 1.0K J 1/10W		D201			HSM88AS-E	DIODE	
R629			RK73GB2A101J	CHIP R 100 J 1/10W		D401-403			HSM88AS-E	DIODE	
R630			RK73GB2A102J	CHIP R 1.0K J 1/10W		D404,405			JDP4P02U	DIODE	
R631			RK73GB2A561J	CHIP R 560 J 1/10W		D406,407			HSC119	DIODE	
R637,638			RK73GB2A472J	CHIP R 4.7K J 1/10W		D408			HSM88AS-E	DIODE	
R639,640			RK73GH2A104D	CHIP R 100K D 1/10W		D409			CSA70-401L	SURGE ABSORBER	
R705			RK73GB2A2R2J	CHIP R 2.2 J 1/10W		D601,602			JDP4P02U	DIODE	
R706-708			RK73GB2A100J	CHIP R 10 J 1/10W		D603-606			UDZS3.0B	ZENER DIODE	
R709			RK73GB2A474J	CHIP R 470K J 1/10W		D933,934			HSM88AS-E	DIODE	
R711			RK73GB2A104J	CHIP R 100K J 1/10W		D935,936			1SS355	DIODE	
R712,713			RK73GB2A472J	CHIP R 4.7K J 1/10W		D960,961			PSA05-11SRWA	LED	
R714			RK73GB2A104J	CHIP R 100K J 1/10W		IC101			LMX2352TMX/NP	ANALOGUE IC	
R715			RK73GB2A474J	CHIP R 470K J 1/10W		IC102			LMC7101BIM5	MOS-IC	
R716-718			RK73GB2A100J	CHIP R 10 J 1/10W		IC104			NJM2386ADL3-09	ANALOGUE IC	
R719,720			RK73GB2A104J	CHIP R 100K J 1/10W		IC201			NJM2904E-ZB	ANALOGUE IC	
R721			RK73GB2A100J	CHIP R 10 J 1/10W		IC202			AD9835BRUZ	MOS-IC	
R722			RK73GB2A474J	CHIP R 470K J 1/10W		IC301			NJM2732V	BI-POLAR IC	
R801			RK73GB2A102J	CHIP R 1.0K J 1/10W		IC302			NJU6368PF1	MOS-IC	
R802,803			RK73GB2A104J	CHIP R 100K J 1/10W		IC303			ADF4001BRUZ	MOS-IC	
R804-807			RK73GB2A100J	CHIP R 10 J 1/10W		IC304			M62364FP-F	MOS-IC	
R812-824			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC305			NJM2732V	BI-POLAR IC	
R830-837			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC306			LMC7101BIM5	MOS-IC	
R840			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC307			NJU6368PF1	MOS-IC	
R845			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC308			NJM2732V	BI-POLAR IC	
R865			RK73GB2A104J	CHIP R 100K J 1/10W		IC401			LMC7101BIM5	MOS-IC	
R866,867			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC404			ADF4001BRUZ	MOS-IC	
R869			RK73GB2A104J	CHIP R 100K J 1/10W		IC405,406		*	TC75S59F-F	MOS-IC	
R870			RK73GB2A101J	CHIP R 100 J 1/10W		IC407			NJU6368PF1	MOS-IC	
R871,872			RK73GB2A104J	CHIP R 100K J 1/10W		IC408,409			TA75S01F-F	MOS-IC	
R873			RK73GB2A103J	CHIP R 10K J 1/10W		IC601			AD9835BRUZ	MOS-IC	
R877			RK73GB2A104J	CHIP R 100K J 1/10W		IC602			NJU6368PF1	MOS-IC	
R878			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC603			XC6204B332M	MOS-IC	
R879			RK73GB2A104J	CHIP R 100K J 1/10W		IC701			BH2220FVM	ANALOGUE IC	
R883			RK73GB2A000J	CHIP R 0.0 J 1/10W	C2	IC702			S24CS02AFJTBG	ROM IC	
R884			RK73GB2A000J	CHIP R 0.0 J 1/10W	C	IC703			BU4094BCFV	MOS-IC	
R887-889			RK73GB2A102J	CHIP R 1.0K J 1/10W		IC704			NJM78M08DL1AZB	ANALOGUE IC	
R891			RK73GB2A102J	CHIP R 1.0K J 1/10W		IC705,706			NJM78M05DL1AZB	ANALOGUE IC	
R920-932			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC801			AD1582	ANALOGUE IC	
R933			RK73GB2A821J	CHIP R 820 J 1/10W		IC802			AD5312BRM	MOS-IC	
R934,935			RK73GB2A000J	CHIP R 0.0 J 1/10W		IC803			AD7908BRU	MOS-IC	
R936,937			RK73GB2A122J	CHIP R 1.2K J 1/10W		IC804			LM50BIM3/NOPB	MOS-IC	
R938,939			RK73GB2A821J	CHIP R 820 J 1/10W		IC805,806			TC7SET126FU-F	MOS-IC	
R940			RK73GB2A122J	CHIP R 1.2K J 1/10W		IC807			NJM78M05DL1AZB	ANALOGUE IC	
R941			RK73GB2A821J	CHIP R 820 J 1/10W		IC808,809	1B		NJM7808FA-ZB	BI-POLAR IC	
R942			RK73GB2A000J	CHIP R 0.0 J 1/10W							

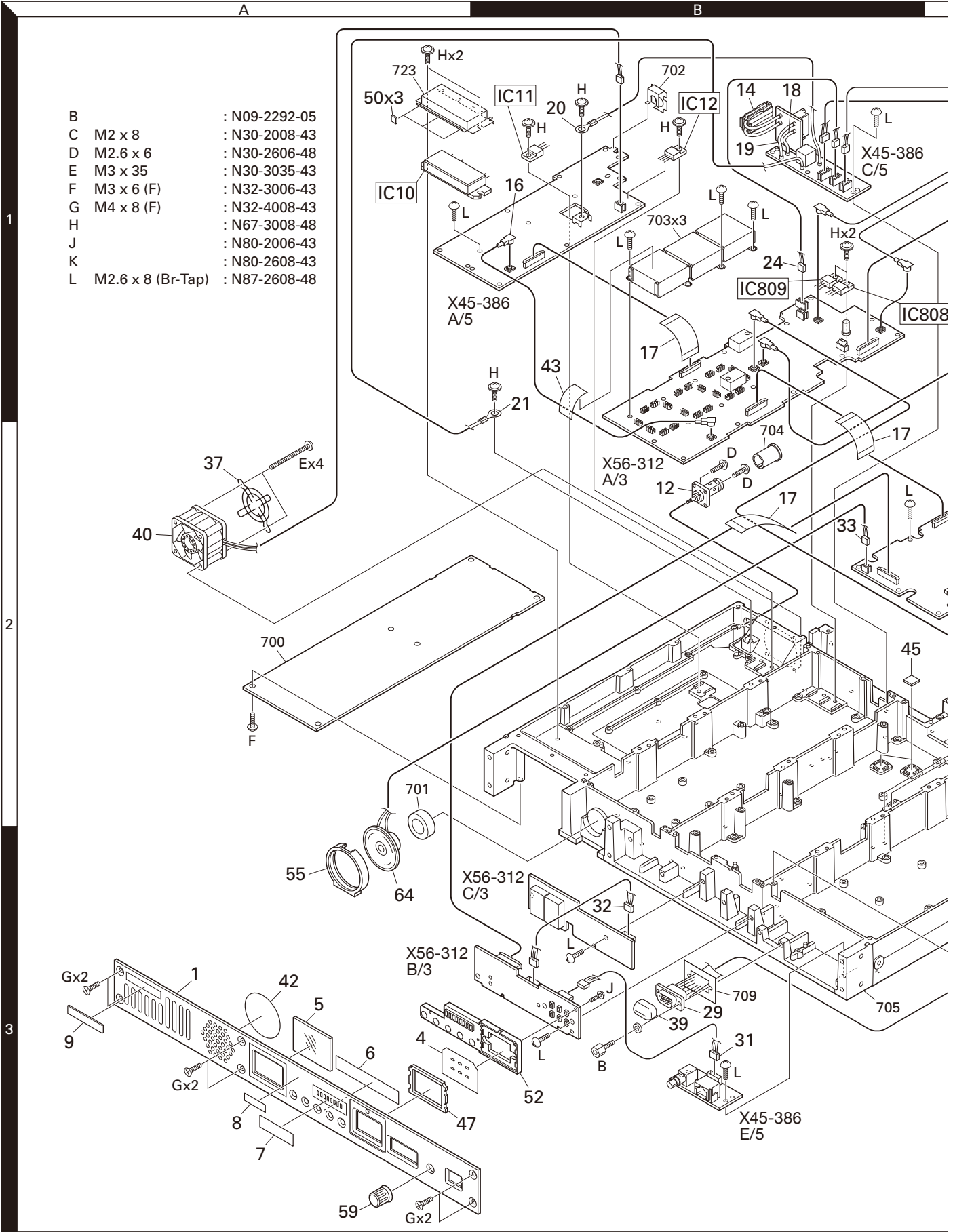
PARTS LIST / 零件表

TX UNIT (X56-312X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
IC920-922			TC7SET126FU-F	MOS-IC							
IC923-925			BU4094BCFV	MOS-IC							
IC926			NJM2732V	BI-POLAR IC							
IC960-963			BU4094BCFV	MOS-IC							
Q101			SSM3K15TE(F)	FET							
Q102,103			2SK508NV(K52)	FET							
Q104			2SC3356-A(R24)	TRANSISTOR							
Q105			2SC4116(BL)F	TRANSISTOR							
Q106			2SC3356-A(R24)	TRANSISTOR							
Q107,108			2SC4116(BL)F	TRANSISTOR							
Q109			2SA1832F	TRANSISTOR							
Q110			SSM3K15TE(F)	FET							
Q201			2SC3356-A(R24)	TRANSISTOR							
Q202			2SC5337	TRANSISTOR							
Q203			RD01MUS1-T113	FET							
Q204			SSM3K15TE(F)	FET							
Q205			SSM3J01F	FET							
Q206			SSM3K15TE(F)	FET							
Q210			SSM3K15TE(F)	FET							
Q211-213			2SC4617(R)	TRANSISTOR							
Q301,302			SSM3K15TE(F)	FET							
Q303			2SA1832F	TRANSISTOR							
Q304,305			2SC4617(R)	TRANSISTOR							
Q307			2SC4617(R)	TRANSISTOR							
Q401,402			2SC4617(R)	TRANSISTOR							
Q405			SSM3K15TE(F)	FET							
Q407-409			SSM3K15TE(F)	FET							
Q410			2SA1832F	TRANSISTOR							
Q412			2SC4617(R)	TRANSISTOR							
Q413,414			SSM3K15TE(F)	FET							
Q415-419			2SC4617(R)	TRANSISTOR							
Q420			3SK317-E	FET							
Q421			SSM6L05FU-F	FET							
Q422			RD01MUS1-T113	FET							
Q423			SSM6L05FU-F	FET							
Q424			SSM3K15TE(F)	FET							
Q425			RD01MUS1-T113	FET							
Q426			SSM3J01F	FET							
Q428,429			SSM3K15TE(F)	FET							
Q430,431			3SK317-E	FET							
Q601			SSM3J01F	FET							
Q602			SSM3K15TE(F)	FET							
Q603			2SC4617(R)	TRANSISTOR							
Q604			SSM3K15TE(F)	FET							
Q605			SSM3J01F	FET							
Q606			2SC4617(R)	TRANSISTOR							
Q607-609			SSM3K15TE(F)	FET							
Q701,702			SSM3K15TE(F)	FET							
Q920-930			UMG1N	TRANSISTOR							
Q931			2SC4116(Y)F	TRANSISTOR							
Q932			2SA1586(Y)F	TRANSISTOR							
Q960-976			UMG1N	TRANSISTOR							
TH101,102			157-302-65801	THERMISTOR							
-			212-1514-05	INSULATING TUBE	C						

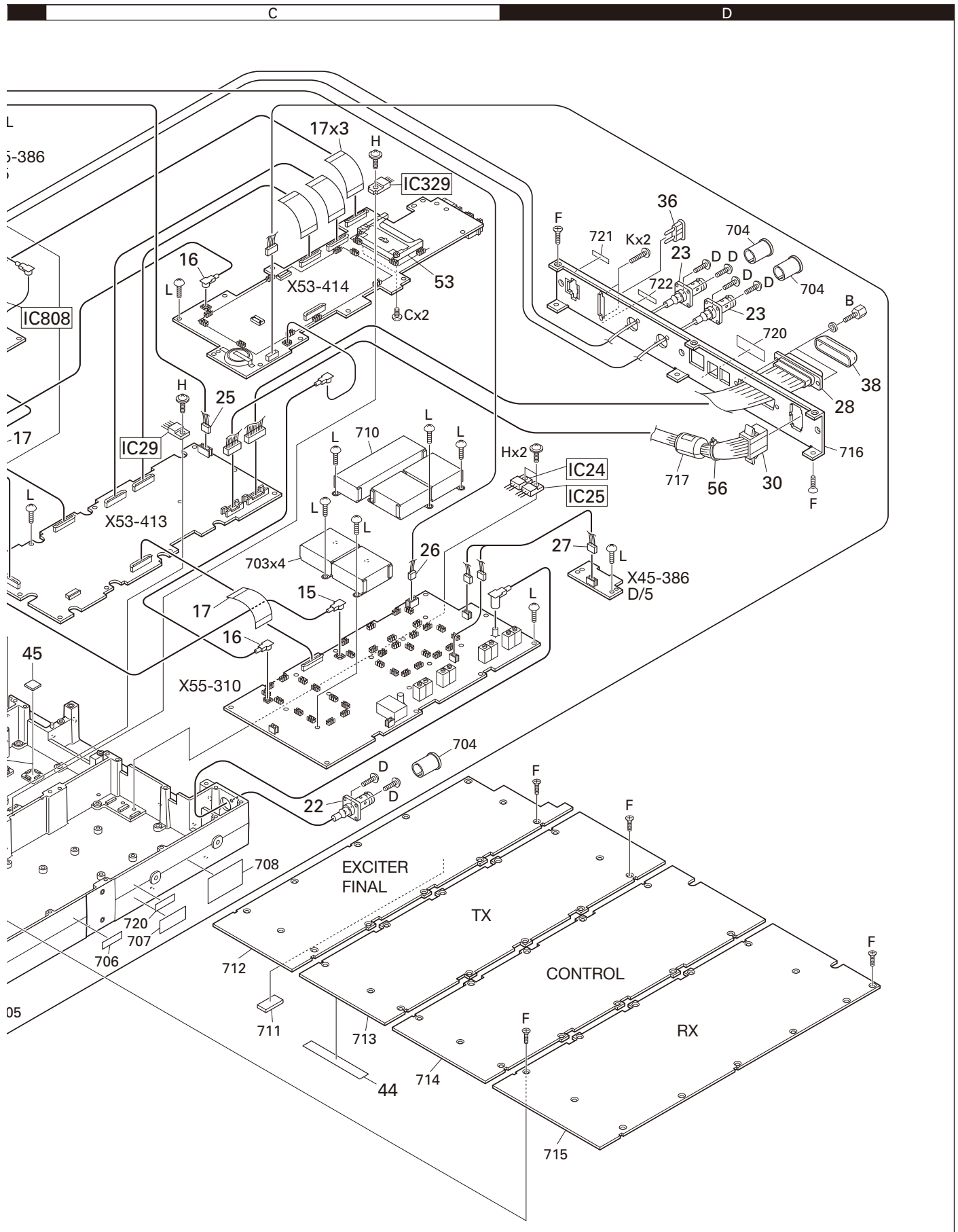
NXR-800H

EXPLODED VIEW / 部件分解图



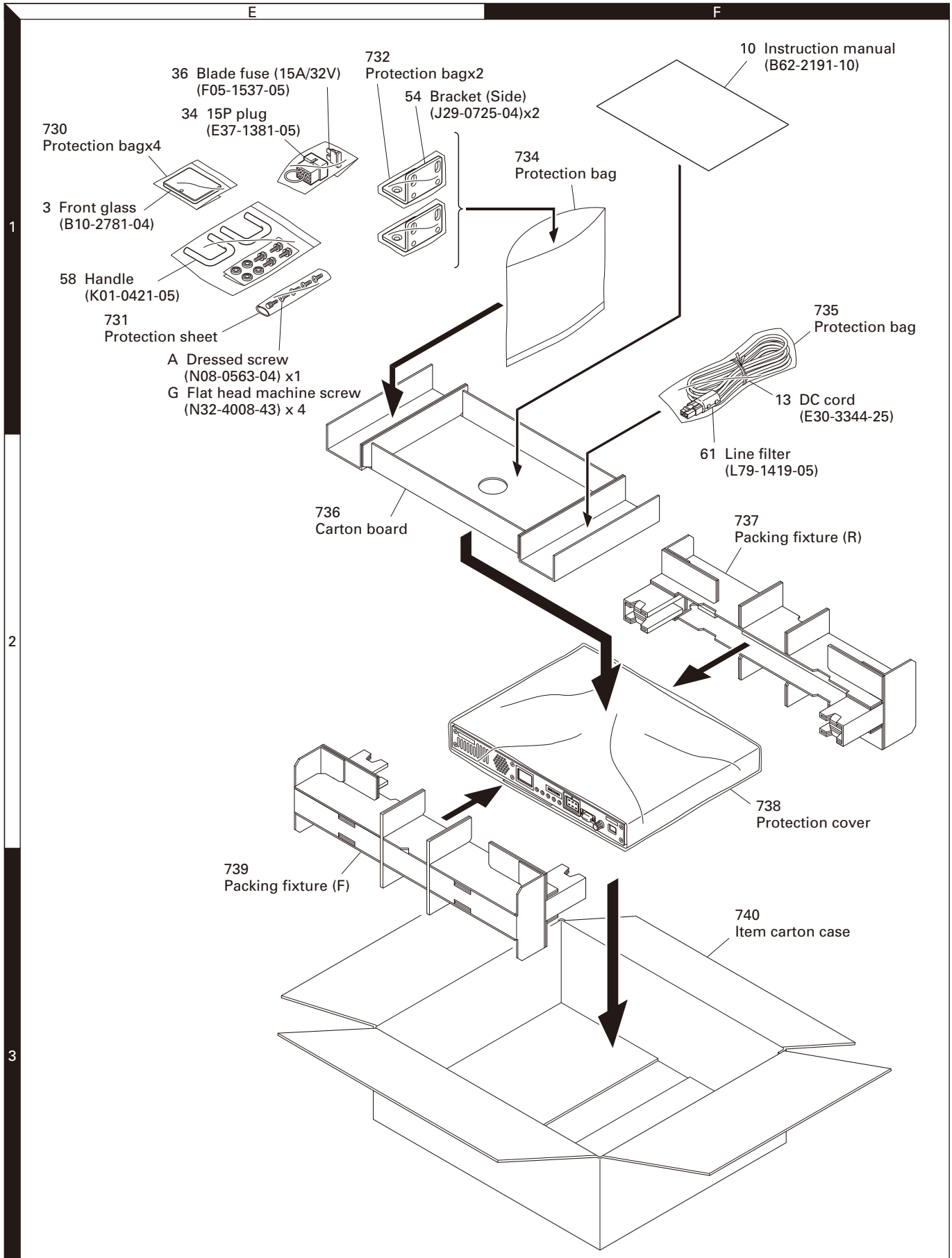
94 Parts with the exploded numbers larger than 700 are not supplied.
 If a part reference number is listed in a box on the exploded view of the PCB, that part does not come with the PCB.
 These parts must be ordered separately.

EXPLODED VIEW / 部件分解图



Parts with the exploded numbers larger than 700 are not supplied.
 If a part reference number is listed in a box on the exploded view of the PCB, that part does not come with the PCB.
 These parts must be ordered separately.

PACKING / 包装



TROUBLE SHOOTING / 故障排除

Procedure for Traceability of BGA Package and How to Replace Control Unit

This clause is procedure when you replace Control unit on you repair. Implement traceability of BGA package in order to make sure BGA failure in prior to replace Control Unit. You choose appropriate procedure accordingly.

1. Traceability of BGA Package ICs in Control Unit

The control unit (X53-414) of NXR-800H series have BGA package ICs. BGA package IC is difficult to trace whether it be broken. So, control unit is difficult to confirm whether it has a problem. This document shows a simple method by PC to confirm the control unit has problem. The two methods for traceability in BGA packages IC are provided as below.

1-1. Simplified traceability

- Open the top cover of control unit.
- Slide the tab on DIP_SW4 (Ref No. S700) to the ON position. (See Fig 1.)
- Connect a cross-wired RS-232C cable to COM port on the front panel of NXR-800H. Plug the other end of the cable to PC. (See Fig 2.)
- Run a communication software, example a Hyper Terminal in Windows, and set the following parameters.
- COM port: COM port of NXR-800H used in step c.

BGA 封装的追溯步骤和控制单元的更换方法

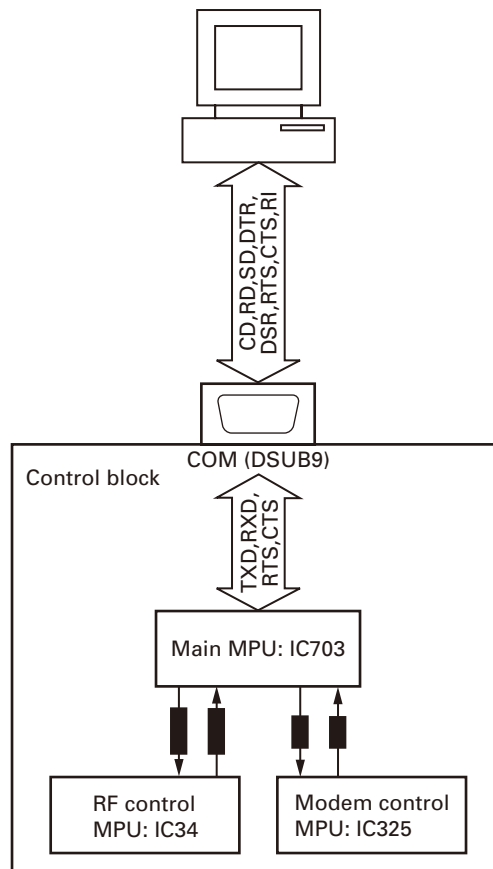
本节介绍修理时更换控制单元的步骤。实行 BGA 封装追溯的目的是在更换控制单元之前确认 BGA 故障。您可以选择相应的适当方法。

1. 控制单元中 BGA 封装 IC 的追溯方法

NXR-800H 系列的控制单元 (X53-414) 含有 BGA 封装 IC。追溯 BGA 封装 IC 是否已损坏比较困难，因此，控制单元难以确认它是否有问题。本文介绍通过 PC 确认控制单元是否存在问题的简单方法。BGA 封装 IC 的两种追溯方法说明如下。

1-1. 简单追溯

- 打开控制单元的顶盖。
- 将 DIP_SW4 (Ref No. S700) 的突起滑到 ON 位置。(参见图 1)
- 将 RS-232C 交叉电缆连接到 NXR-800H 前面板的 COM 端口。将交叉电缆的另一端插到 PC 上。(参见图 2)
- 运行通信软件，例如 Windows 中的 Hyper Terminal，然后设置以下参数。
- COM 端口：步骤 c. 中使用的 NXR-800H 的 COM 端口。



NXR-800H

TROUBLE SHOOTING / 故障排除

Configuration in communication port

Communication speed: 115200bps
Data Length: 8-bit
Parity: None
Stop bits: 1
Flow control: Hardware

通信端口的配置

通信速度：115200bps
数据长度：8-bit
奇偶校验：无
停止位：1
流量控制：硬件

- f) Apply 13.2VDC to NXR-800H. When BGA ICs mounted in this control unit works correctly, the following messages appears on the screen of communication software. If the software doesn't show below messages, it's supposed that BGA package IC is broken.

```
NEXEDGE IPL 1.00 *1
COPYRIGHT KENWOOD CORPORATION
2007 ALL RIGHTS RESERVED
CPU[R] Version 1.00 *2
CPU[M] Version 1.00 *3
```

- *1: Appearing this information means the boot program in Main MPU (IC703) is correctly working.
- *2: Appearing this information means the boot program at the RF control MPU (IC34) is correctly working.
- *3: Appearing this information means the boot program at the Modem control in MPU(IC325) is correctly working.

Note: IPL and CPU[R], CPU[M] version will be updated by any modification or improvement in future.

- f) 对 NXR-800H 施加 13.2VDC。当控制单元内安装的 BGA IC 正常工作时，通信软件画面上会出现以下讯息。如果软件不出现以下信息，则可能是 BGA 封装 IC 已损坏。

```
NEXEDGE IPL 1.00 *1
COPYRIGHT KENWOOD CORPORATION
2007 ALL RIGHTS RESERVED
CPU[R] Version 1.00 *2
CPU[M] Version 1.00 *3
```

- *1: 出现此信息表示主 MPU(IC703) 工作正常。
- *2: 出现此信息表示 RF 控制 MPU(IC34) 工作正常。
- *3: 出现此信息表示调制解调器控制 MPU(IC325) 工作正常。

注意：IPL 和 CPU[R]、CPU[M] 的版本将来会通过改进予以更新。

- g) After that slide the tab on DIP_SW4 to OFF position, before close the top cover of control unit.

- g) 然后，在关闭控制单元的顶盖之前，将 DIP_SW4 上的突起滑到 OFF 位置。

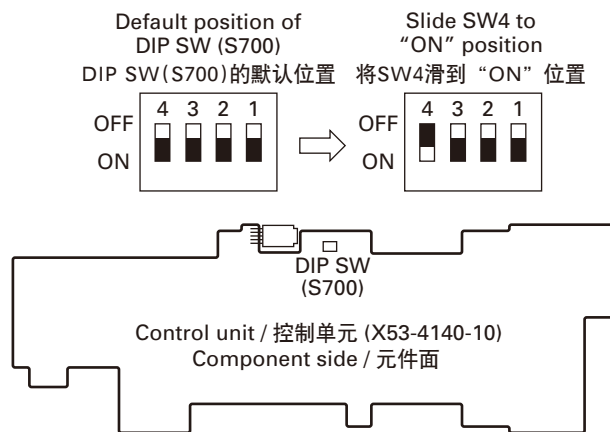


Fig. 1 / 图 1

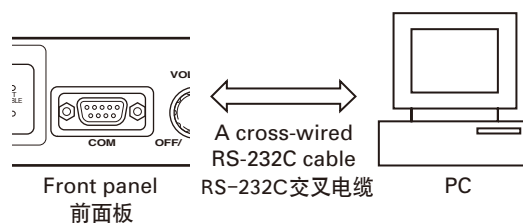
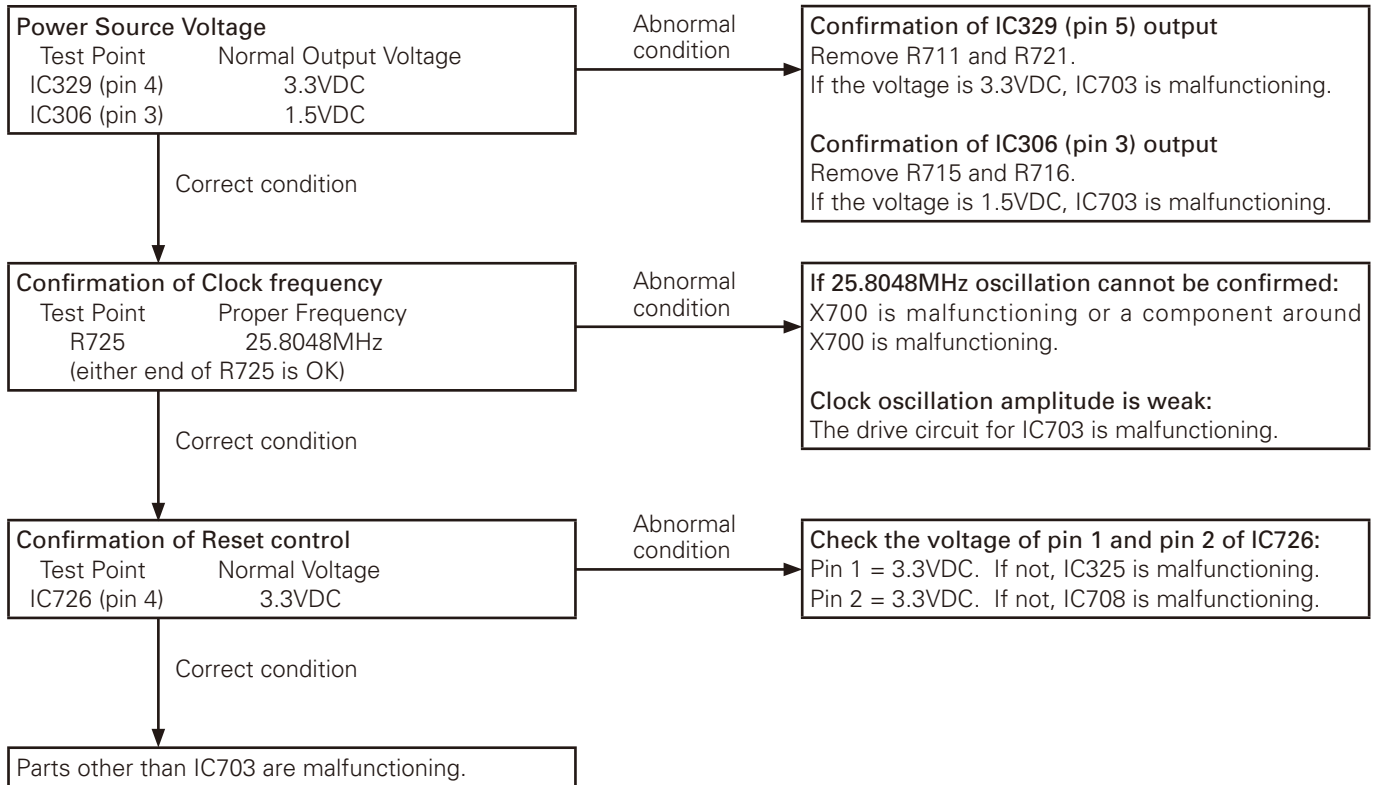


Fig. 2 / 图 2

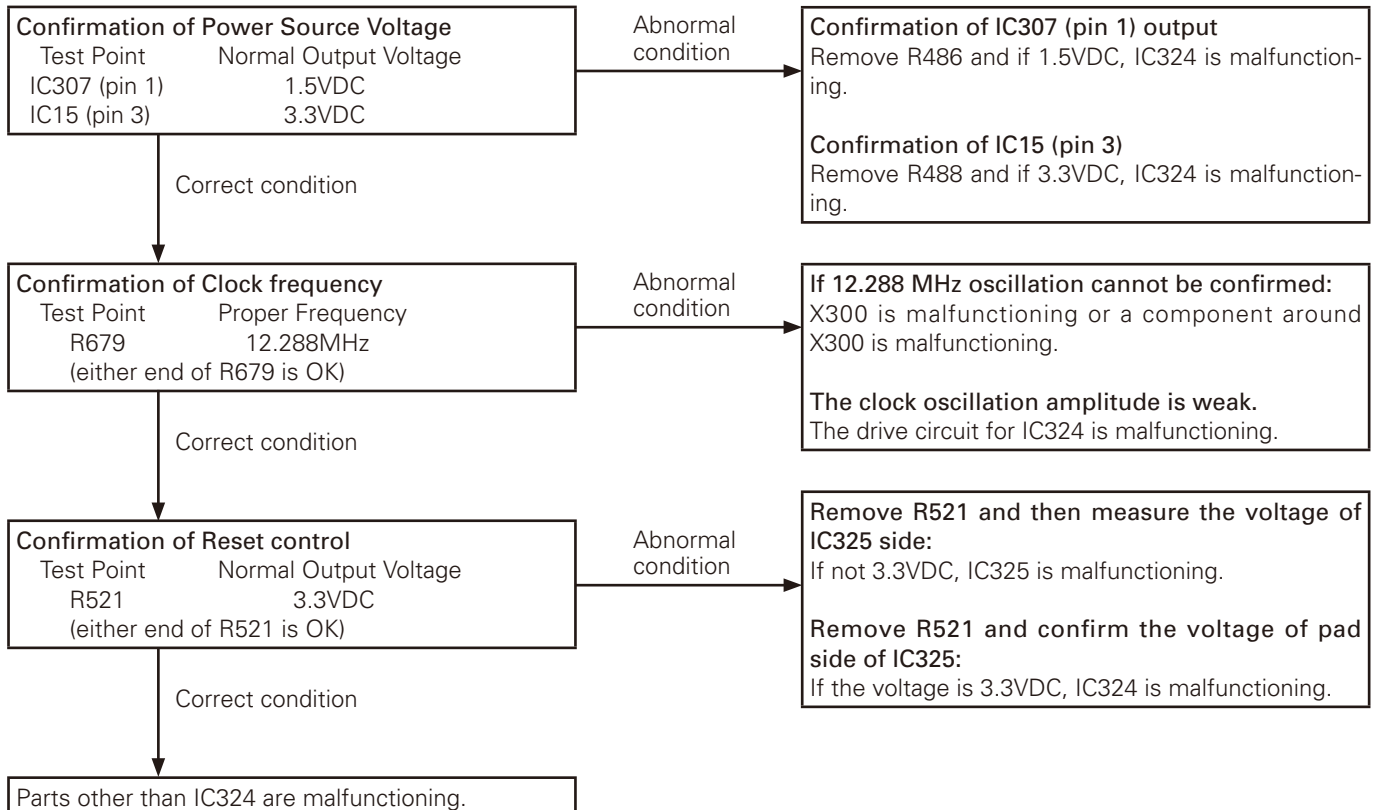
TROUBLE SHOOTING

1-2. Hardware Traceability (Method 1)

■ Procedure for IC703 (Main MPU) traceability



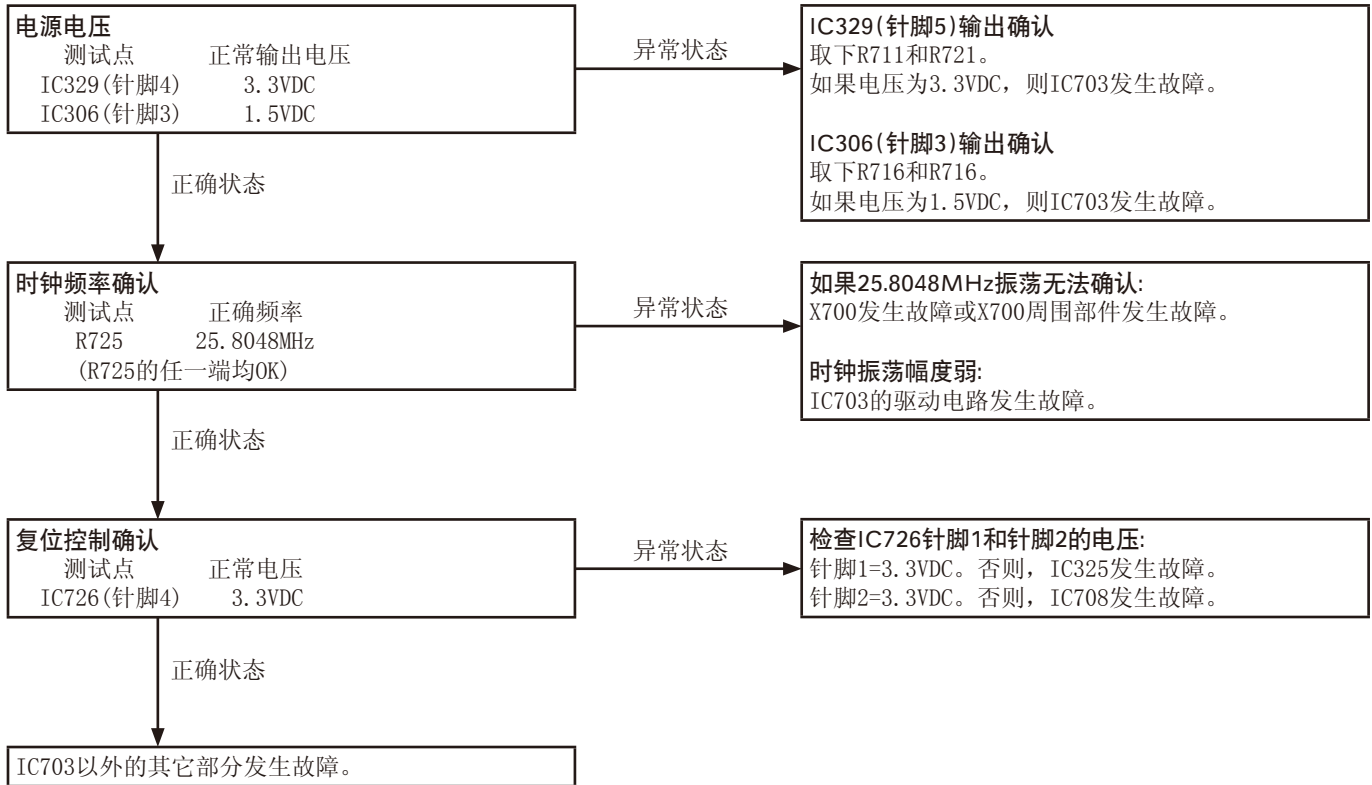
■ Traceability Procedure of IC324 (TX Vocoder_DSP)



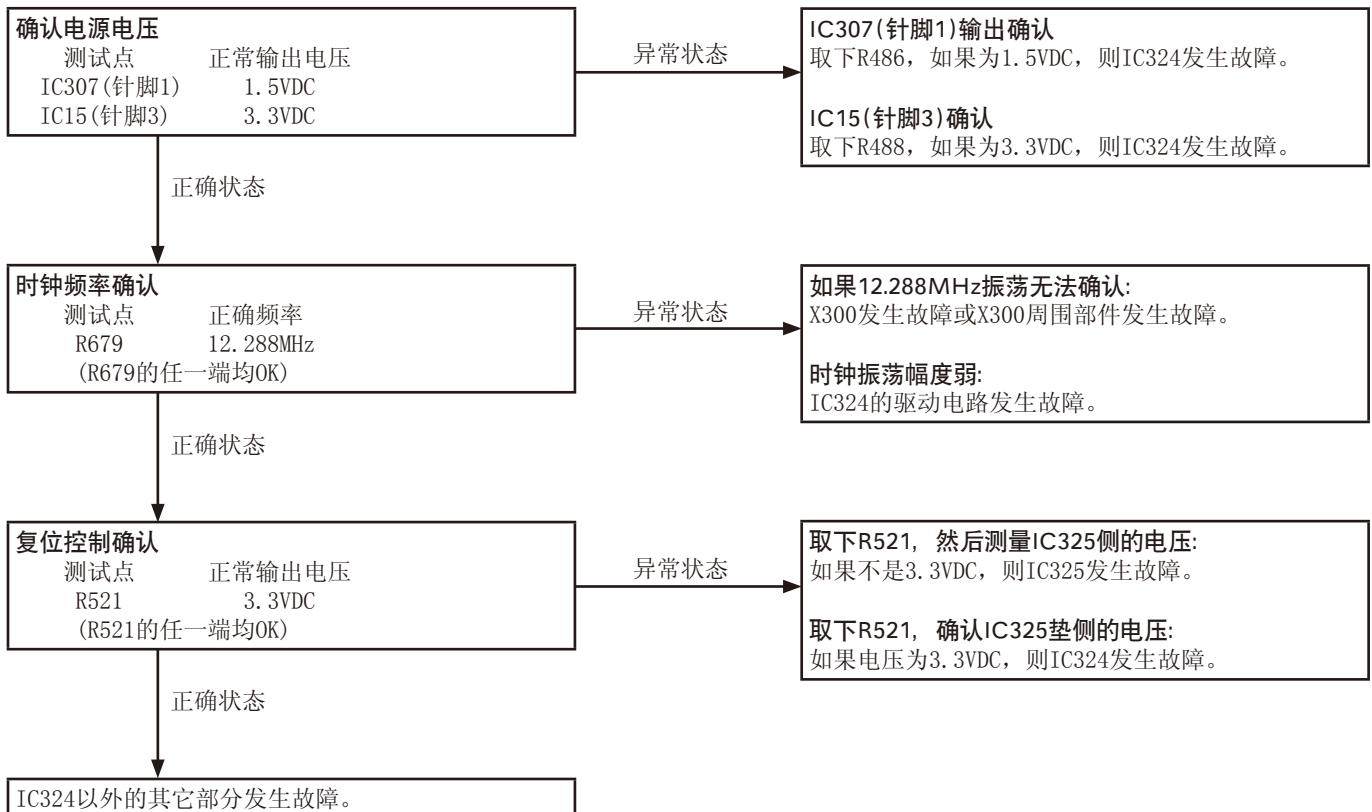
故障排除

1-2. 硬件追溯 (方法 1)

■ IC703(主 MPU) 追溯步

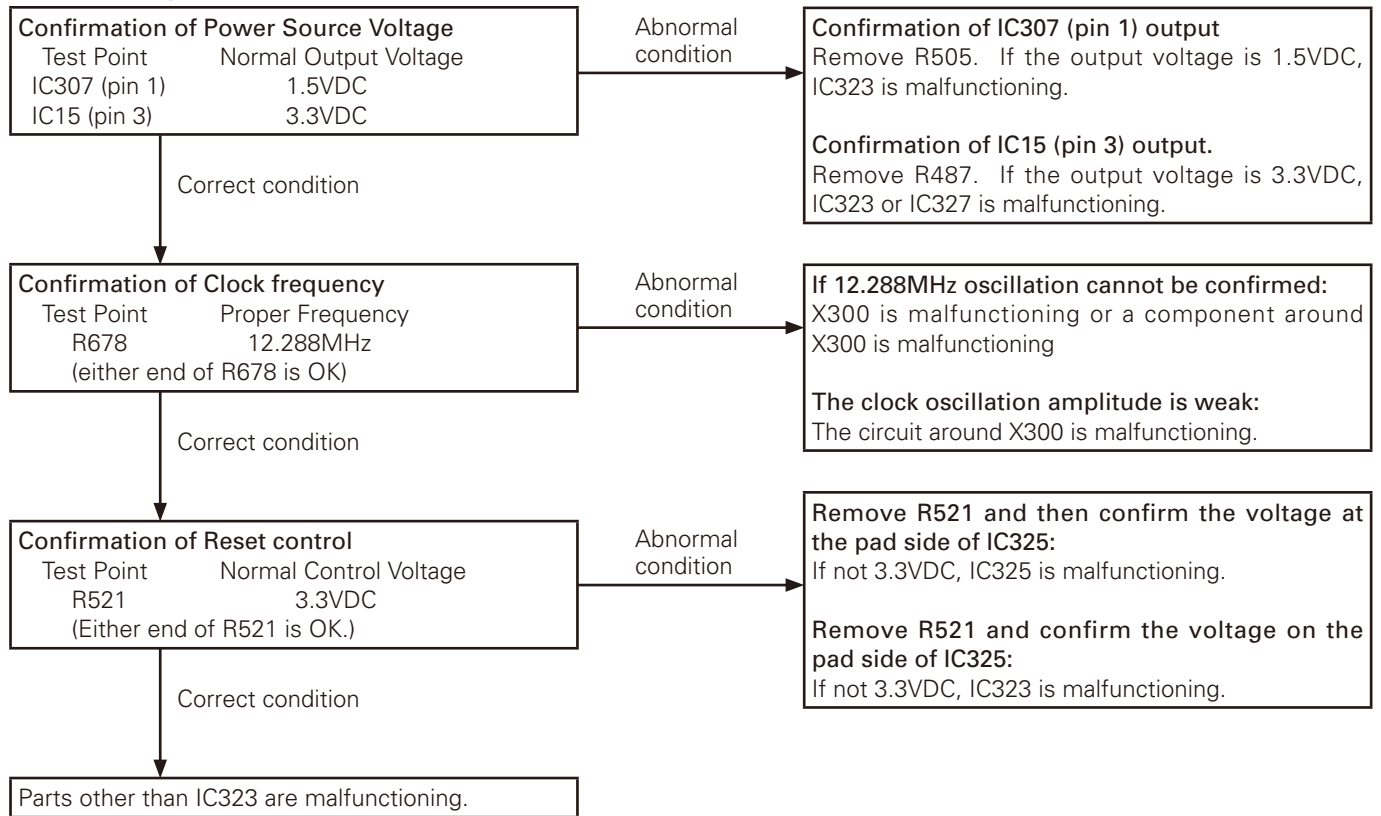


■ IC324(TX 声码器 -DSP) 的追溯步骤

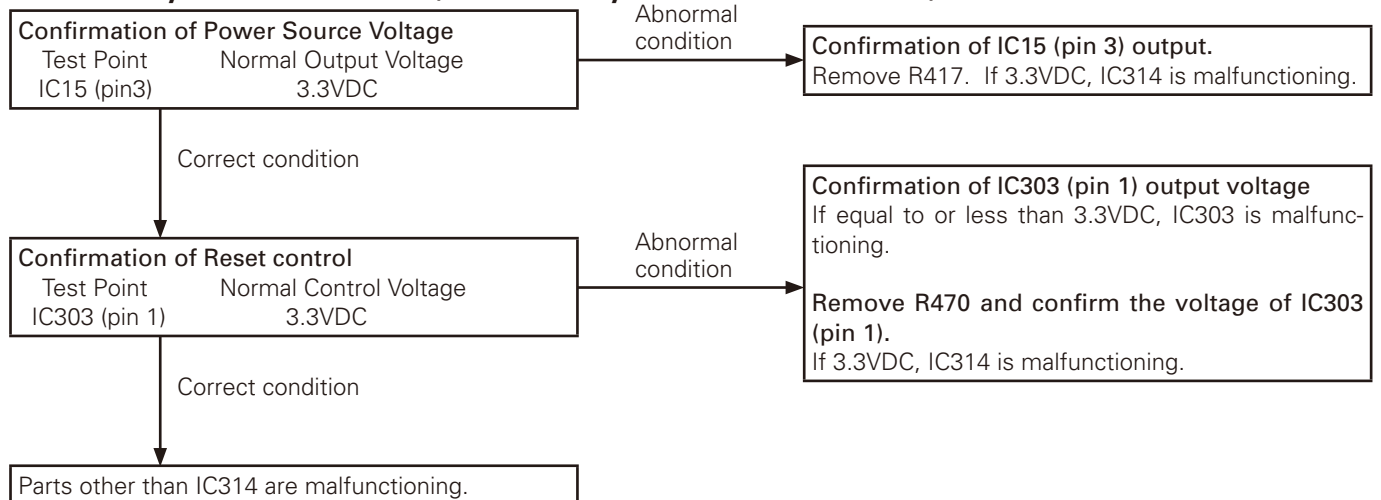


TROUBLE SHOOTING

■ Traceability Procedure of IC323 (RX_DSP)

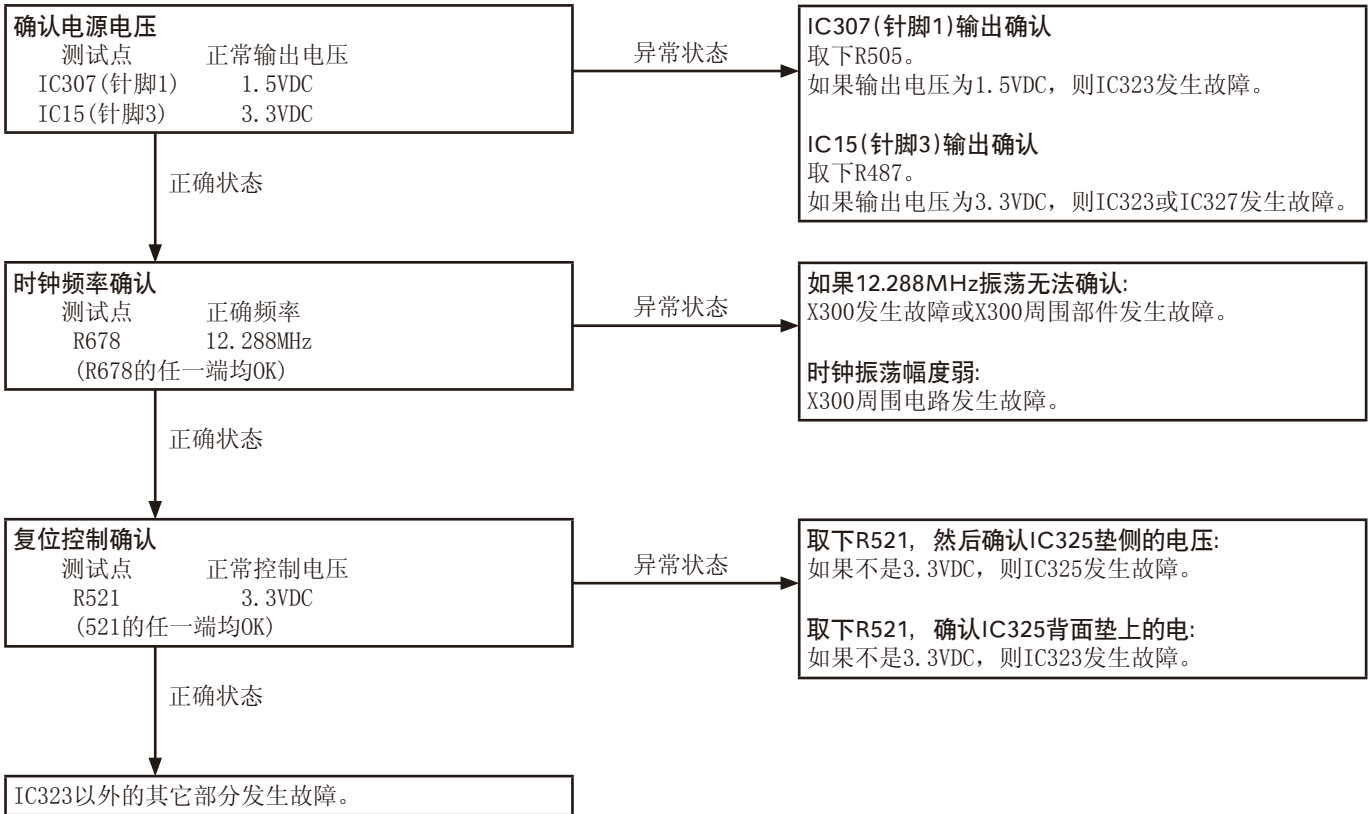


■ Traceability Procedure of IC314 (Flash Memory of modem control MPU)

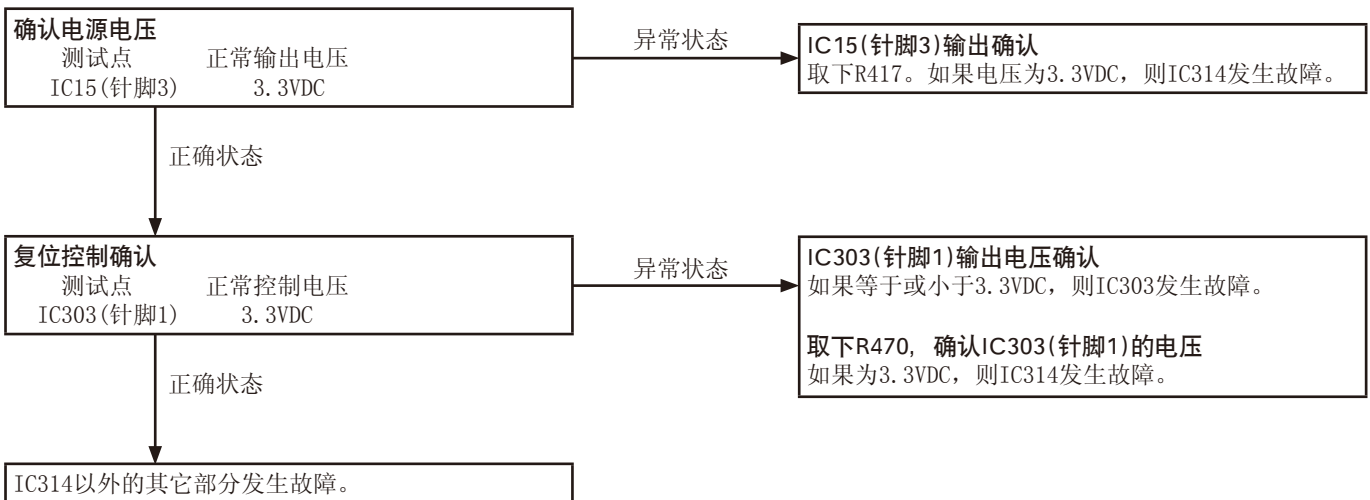


故障排除

■ IC323(RX_DSP) 的追溯步骤

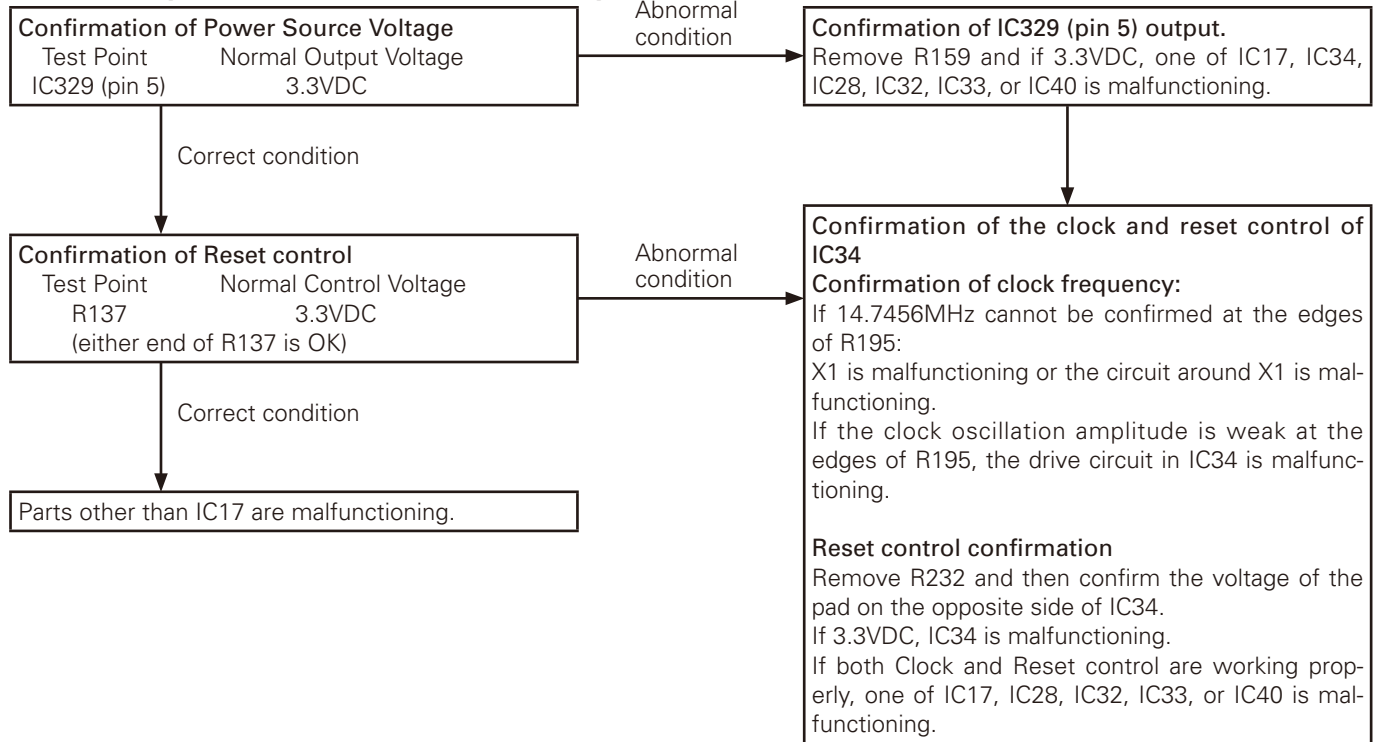


■ IC314(调制解调器控制 MPU 的闪存) 的追溯步骤

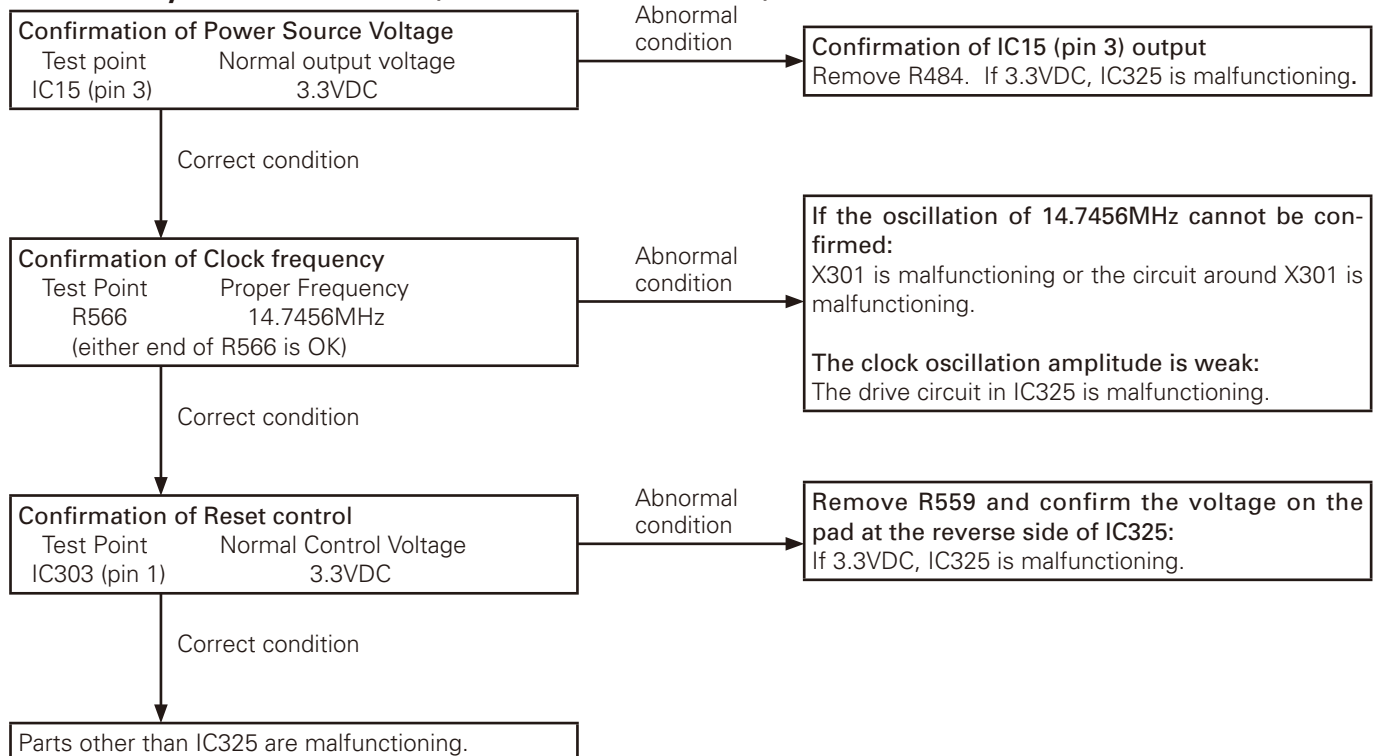


TROUBLE SHOOTING

■ Traceability Procedure of IC17 (Flash Memory of RF control MPU)

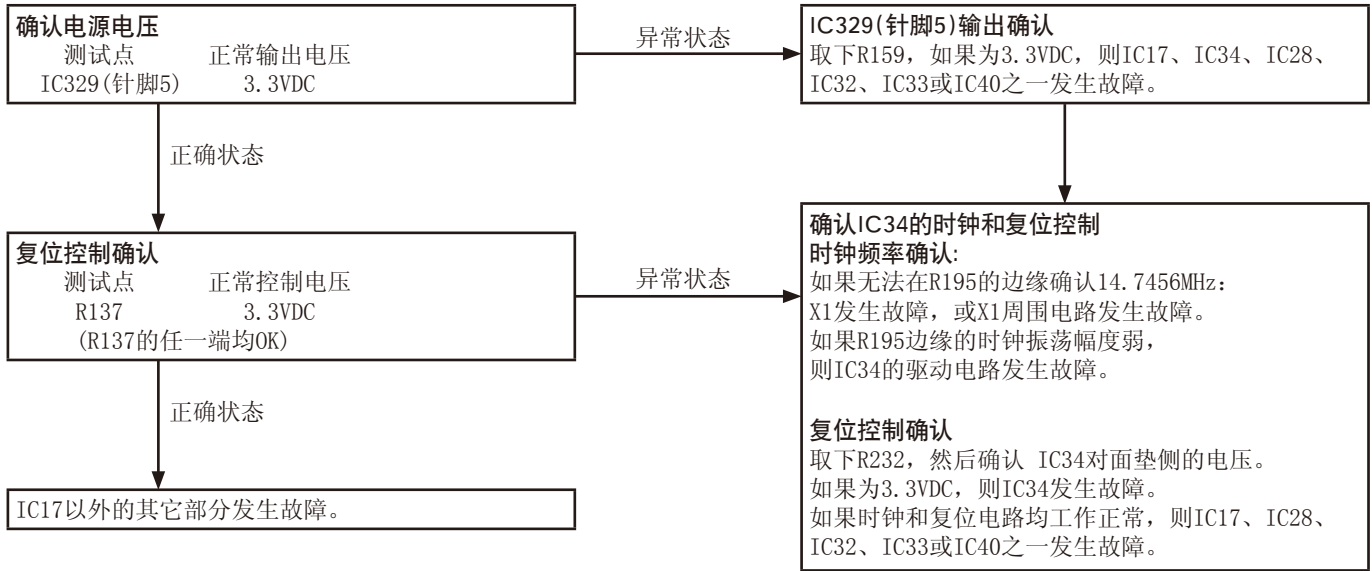


■ Traceability Procedure of IC325 (The Modem control MPU)

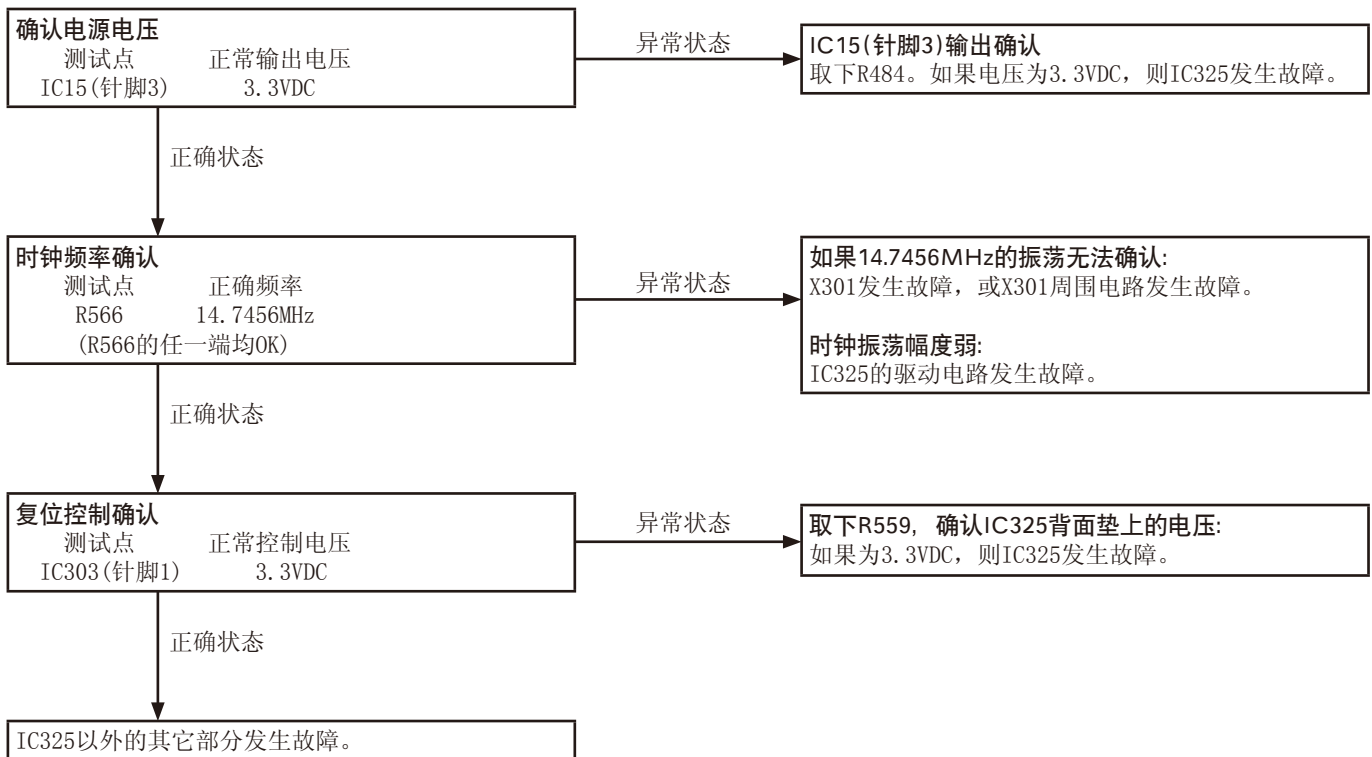


故障排除

■ IC17(RF 控制 MPU 的闪存) 的追溯步骤

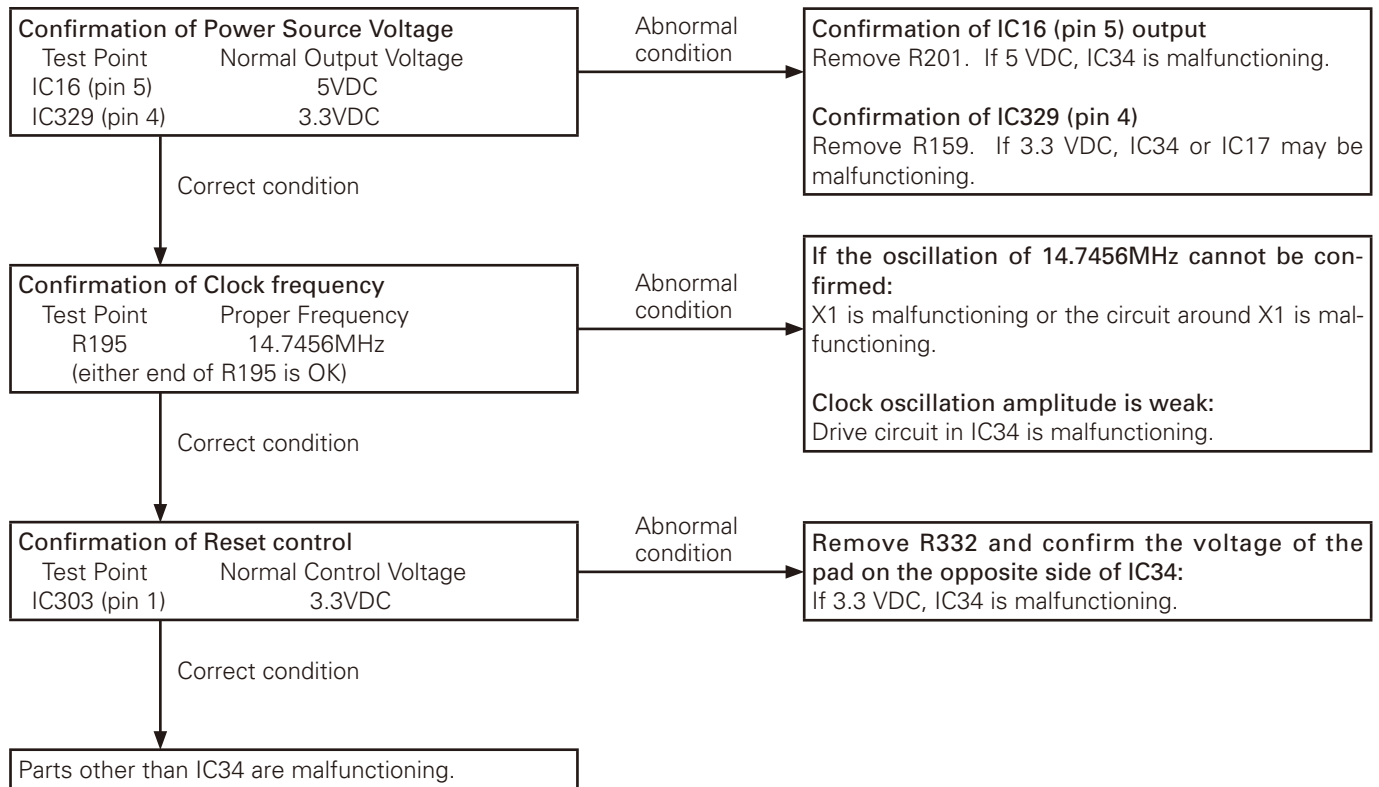


■ IC325(调制解调器控制 MPU) 的追溯步骤



TROUBLE SHOOTING

■ Traceability Procedure of IC34 (The RF control MPU)



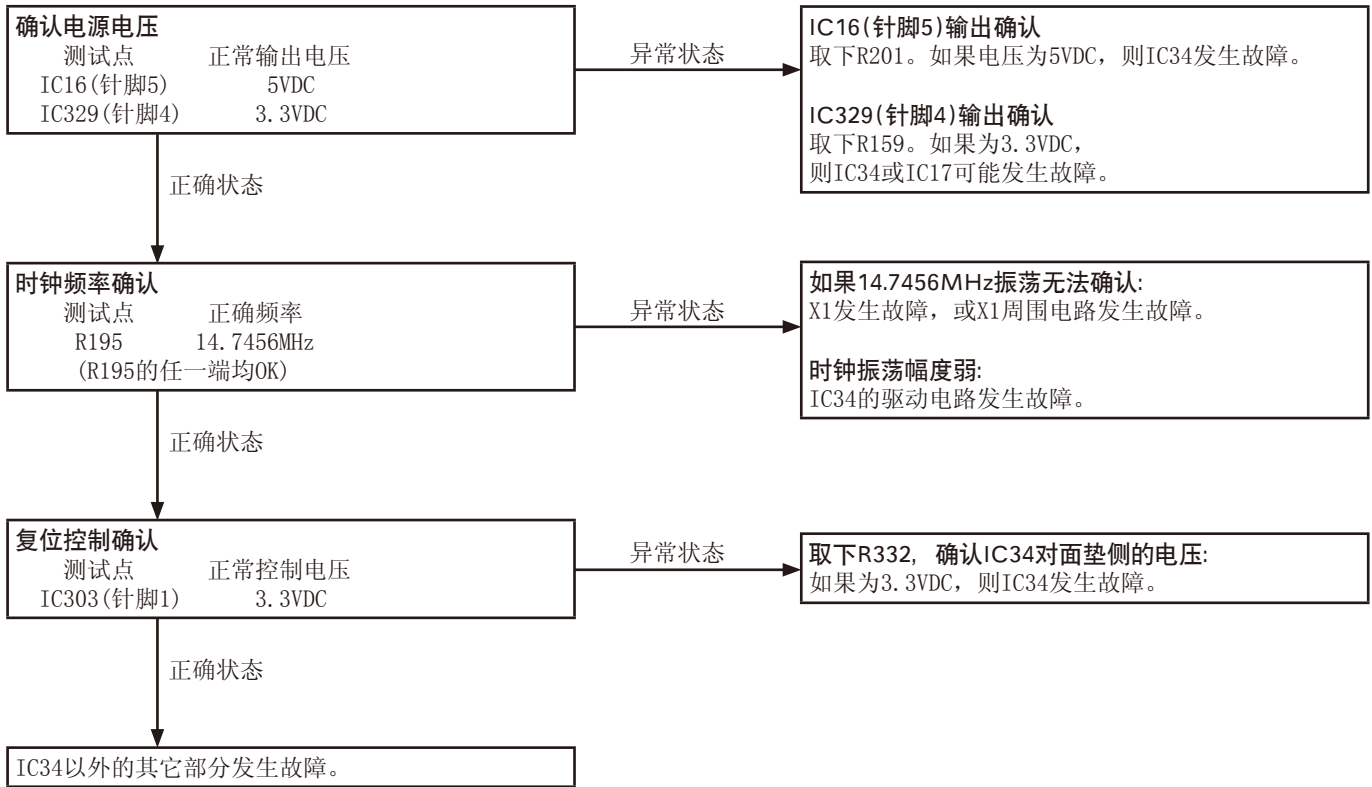
1-3. Hardware Traceability (Method 2)

The NXR-800H control circuit executes the following procedures when the system starts up.

1. An external DC 13.2V power source is applied to the NXR-800H terminal.
2. The Modem control MPU (IC325) starts up.
3. The Modem control MPU (IC325) initiates all circuit blocks.
4. The Main MPU (IC703) and the RF control MPU (IC34) start up.
5. The Main MPU (IC703) confirms the operational status of the Modem control MPU (IC325) and the RF control MPU (IC34) by using 115.2kbps UART communications and then the operation transfer commands will be exchanged in order to integrate all hardware blocks.

The above steps 1 to 5 will be executed as follows.

■ IC34(RF 控制 MPU) 的追溯步骤



1-3. 硬件追溯 (方法 2)

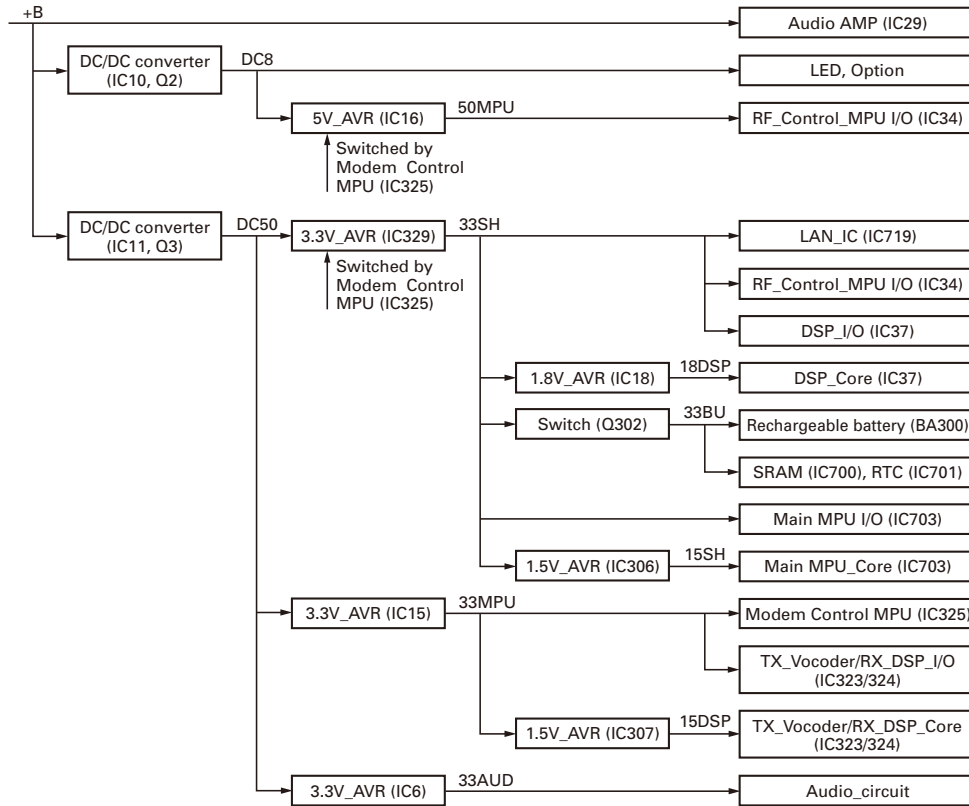
系统启动时，NXR-800H 控制电路执行以下操作。

1. 外部 DC 13.2V 电源施加于 NXR-800H 端子。
2. 调制解调器控制 MPU (IC325) 启动。
3. 调制解调器控制 MPU (IC325) 启动所有电路块。
4. 主 MPU (IC703) 和 RF 控制 MPU (IC34) 启动。
5. 主 MPU (IC703) 通过 115.2kbps UART 通信确认调制解调器控制 MPU (IC325) 和 RF 控制 MPU (IC34) 的状态，然后将交换操作传送指令以集成所有的硬件区块。

上述步骤 1 至 5 将按以下方式执行。

TROUBLE SHOOTING / 故障排除

- **External DC 13.2V Power Source applied to the NXR-700H Terminal / 将外部 DC 13.2V 电源施加于 NXR-700H 端子**
Refer to the power supply diagram sequence below. / 请参见以下电源图顺序。



- **Initialization of the Modem control MPU (IC325) (normal oscillation of X301 and normal reset-unlock of IC303)**

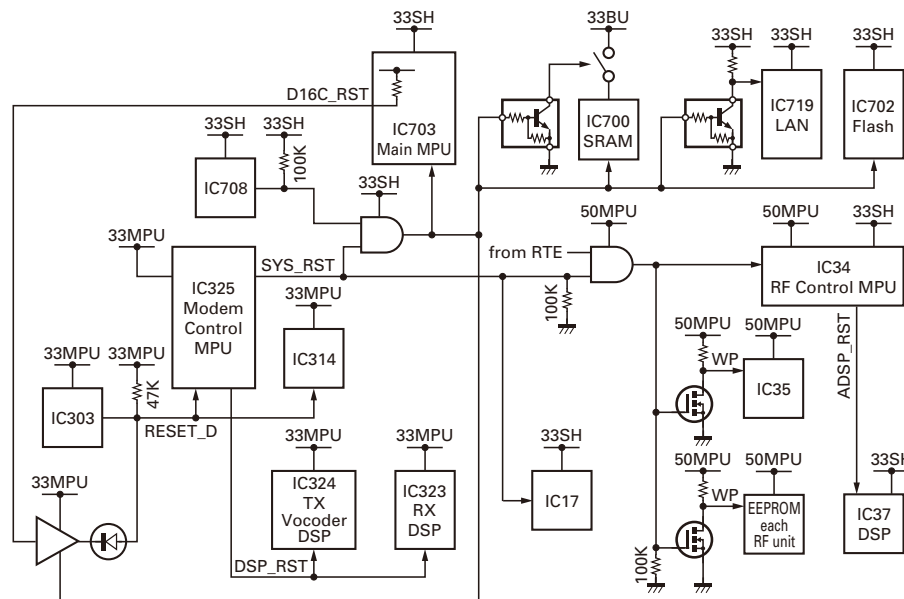
- 调制解调器控制 MPU (IC325) (X301 的正常振荡和 IC303 的复位解锁) 的初始化

Refer to Traceability procedure for IC325. / 请参见 IC325 的追溯步骤。

- **Unlocking "SYS_RST" Signal on the Modem control MPU (IC325) starts Up all Hardware Blocks**

- 解锁调制解调器控制 MPU (IC325) 上的 "SYS_RST" 信号时, 将启动所有的硬件区块

Refer to the Reset circuit below. / 请参见以下复位电路。



Reset circuit / 复位电路

■ Start-up of each Control Block

• Main MPU Block

Component elements:

- Main MPU: IC703
- Flash Memory: IC702
- SD RAM: IC704 and IC707
- LAN IC: IC719
- RTC: IC701

Overview of Start-up Operation:

When MPU reset line logic switches as high, the MPU starts reading the program from the flash memory and expands the program to SDRAM. Linux OS begins operation on the SDRAM after main MPU transfers the program. Main MPU works usage of Linux OS codes. The other higher-level applications software to the Linux OS will also be expanded in SDRAM. On starting up, main MPU verify the status of the registers in LAN IC except SDRAM which is purpose of backup data even if abnormal symptom detects in either LAN IC or SDRAM, the start-up process is not affected by this error; main MPU behaves operation as if it works properly. To express another word, either Flash memory or SDRAM has defective, a circuit behaves as if main MPU happens malfunction. After executing all initialization routines, the Main MPU verifies the operational status of each MPU then transmits/ receives the operation transfer command set to from the Modem control MPU (IC325) and the RF control MPU (IC34) using 115.2kbps UART communications.

• RF Control MPU Block

Component elements:

- RF control MPU: IC34
- Flash memory: IC17
- DSP: IC37

Overview of Start-up Operation:

When the RF control MPU (IC34) reset line logic switches as high, this MPU reads the boot program from the internal ROM of MPU and then initializes the peripheral devices. After this boot process completes, the MPU starts working with the programs (application programs) stored in flash memory (IC17) to process the preprogrammed tasks. During the process, the MPU transfers the program to the DSP IC (IC37). It also verifies the operating status of DSP at certain interval.

After a series of processes completes, the RF control MPU verifies the operational status and then transmits and receives the operation transfer command set to/from Main MPU (IC703) using 115200bps UART communications.

• Modem Control MPU Block

Component elements:

- Modem control MPU: IC325
- Flash memory: IC314
- RX DSP: IC323
- TS Vocoder DSP: IC324

■ 各控制块的启动

• 主 MPU 块

组成部分：

- 主 MPU: IC703
- 闪存：IC702
- SD RAM: IC704 和 IC707
- LAN IC: IC719
- RTC: IC701

启动操作概述：

当 MPU 复位线路逻辑转换为高时，MPU 开始从闪存读取程序并将程序扩展到 SDRAM。主 MPU 传送程序之后，Linux OS 开始在 SDRAM 上运行。

主 MPU 使用 Linux OS 代码工作。其它更高级的 Linux OS 应用软件也会在 SDRAM 中扩展。启动时，即使 LAN IC 或 SDRAM 内检测到异常现象，主 MPU 也会确认 LAN IC 中寄存器的状态，用于备份数据的 SDRAM 除外，启动过程不受此错误的影响，主 MPU 将按照其正常工作的方式执行操作。换句话说，闪存或 SDRAM 存在缺陷时，电路将按主 MPU 发生故障的方式运行。执行所有初始化任务之后，主 MPU 将确认各 MPU 的状态，然后利用 115.2kbps UART 通信发送 / 接收发到 / 来自调制解调器控制 MPU (IC325) 和 RF 控制 MPU (IC34) 的操作传送指令集。

• RF 控制 MPU 块

组成部分：

- RF 控制 MPU: IC34
- 闪存：IC17
- DSP: IC37

启动操作概述：

当 RF 控制 MPU (IC34) 复位线路逻辑转换为高时，此 MPU 将从 MPU 的内部 ROM 读取引导程序，然后初始化外围设备。完成该引导过程后，MPU 将以闪存 (IC17) 内储存的程序 (应用程序) 开始工作，对编程的任务进行处理。处理过程中，MPU 将程序传送到 DSP IC (IC37)。此外，它还会按一定的间隔确认 DSP 的运行状态。

一系列过程完成后，RF 控制 MPU 将确认运行状态，然后利用 115200bps UART 通信发送 / 接收发到 / 来自主 MPU (IC703) 的操作传送指令集。

• 调制解调器控制 MPU 块

组成部分：

- 调制解调器控制 MPU: IC325
- 闪存：IC314
- RX DSP: IC323
- TS 声码器 DSP: IC324

TROUBLE SHOOTING / 故障排除

Overview of Start-up Operation:

When the Modem control MPU (IC325) reset line logic switches as high, the MPU reads the boot program from the internal ROM of MPU and then initializes the peripheral devices. After this boot-up process completes, the MPU starts working with the programs (application programs) stored in flash memory (IC314) to process the preprogrammed tasks. During the process, the MPU transfers the program to the RX DSP IC (IC323) and TX Vocoder DSP IC (IC324). It also confirms the operating status of these DSP ICs. After a series of processes completes, the Modem control MPU confirms the operational status and then transmits and receives the operation transfer command set to/from Main MPU (IC703) using 115200 bps UART communications.

• Possible Symptoms if the Block (mainly BGA IC) Malfunctions

Ref. No.	Element of Block	Presumption Symptoms
IC703	Main MPU	<ul style="list-style-type: none"> • Since the boot program cannot be executed at all, the LEDs do not light or flash. • The operations that should be executed by IC703 are not processed. • Runaway of IC703.
IC17	Flash Memory on RF control MPU block	<ul style="list-style-type: none"> • Migrated to the programming mode (Write). ("PG" appears on the 17-segment LED display.) • The operations that should be executed by IC34 are not processed. • Runaway of IC34.
IC314	Flash Memory on Modem control block	<ul style="list-style-type: none"> • Migrated to the programming mode (Write). ("PG" appears on the 17-segment LED display.) • The operations that should be executed by IC325 are not processed. • Runaway of IC325.
IC323	RX DSP	<ul style="list-style-type: none"> • While the boot program is executed, the operation stops (the status LED is flashing). • The operations that should be executed by IC323 are not processed. • Runaway of IC323.
IC324	TX Vocoder DSP	<ul style="list-style-type: none"> • While the boot program is executed, the operation stops (the status LED is flashing). • The operations that should be executed by IC324 are not processed. • Runaway of IC324.

启动操作概述：

当调制解调器控制 MPU (IC325) 复位线路逻辑转换为高时，该 MPU 将从 MPU 的内部 ROM 读取引导程序，然后初始化外围设备。完成该引导过程后，MPU 将以闪存 (IC314) 内储存的程序 (应用程序) 开始工作，对编程的任务进行处理。

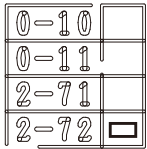
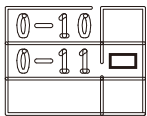
处理过程中，MPU 将程序传送到 RX DSP IC (IC323) 和 TX 声码器 DSP IC (IC324)。此外，它还确认这些 DSP IC 的运行状态。一系列过程完成后，调制解调器控制 MPU 将确认运行状态，然后利用 115200 bps UART 通信发送 / 接收发到 / 来自自主 MPU (IC703) 的操作传送指令集。

• 区块 (主要是 BGA IC) 发生故障时可能存在的现象

有关号码	区块元件	可能出现的故障
IC703	主 MPU	<ul style="list-style-type: none"> • 由于引导程序根本无法执行，LED 不点亮或闪烁。 • 应由 IC703 执行的操作无法得到处理。 • IC703 失控。
IC17	RF 控制 MPU 块上的闪存	<ul style="list-style-type: none"> • 转移到编程模式 (写入)。(17 段 LED 显示上出现 "PG"。) • 应由 IC34 执行的操作无法得到处理。 • IC34 失控。
IC314	调制解调器控制块上的闪存	<ul style="list-style-type: none"> • 转移到编程模式 (写入)。(17 段 LED 显示上出现 "PG"。) • 应由 IC325 执行的操作无法得到处理。 • IC325 失控。
IC323	RX DSP	<ul style="list-style-type: none"> • 执行引导程序时，操作停止 (状态 LED 闪烁)。 • 应由 IC323 执行的操作无法得到处理。 • IC323 失控。
IC324	TX 声码器 DSP	<ul style="list-style-type: none"> • 执行引导程序时，操作停止 (状态 LED 闪烁)。 • 应由 IC324 执行的操作无法得到处理。 • IC324 失控。

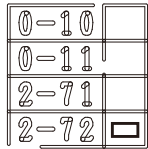
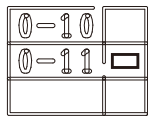
2. Replacing Control Unit

2-1. Control Unit information

Original Control Unit	Control Unit (Service unit)	Difference between original unit and Service Unit
X53-4132-71	X53-4132-72	Mounted chip at 2-72 location for Service Unit. 
X53-4140-10	X53-4140-11	Mounted chip at 0-11 location for Service Unit. 

2. 更换控制单元

2-1. 控制单元信息

原始控制单元	控制单元 (维修单元)	原始单元与维修单元之间的差别
X53-4132-71	X53-4132-72	维修单元的 2-72 位置装有芯片。 
X53-4140-10	X53-4140-11	维修单元的 0-11 位置装有芯片。 

2-2. Supplied Accessories

Item (Including Part Number)	Quantity	
	X53-413	X53-414
Control Unit (X53-413)	1	-
Control Unit (X53-414)	-	1
Kenwood ESN Label	-	2
NXDN ESN Label	-	1
Addendum (B59-2536-XX)	1	1

2-2. 附件

项目 (包括零件号)	数量	
	X53-413	X53-414
控制单元 (X53-413)	1	-
控制单元 (X53-414)	-	1
Kenwood ESN 标签	-	2
NXDN ESN 标签	-	1
附加物 (B59-2536-XX)	1	1

2-3. Printed Circuit Board Data

The following data is written on the printed circuit board:

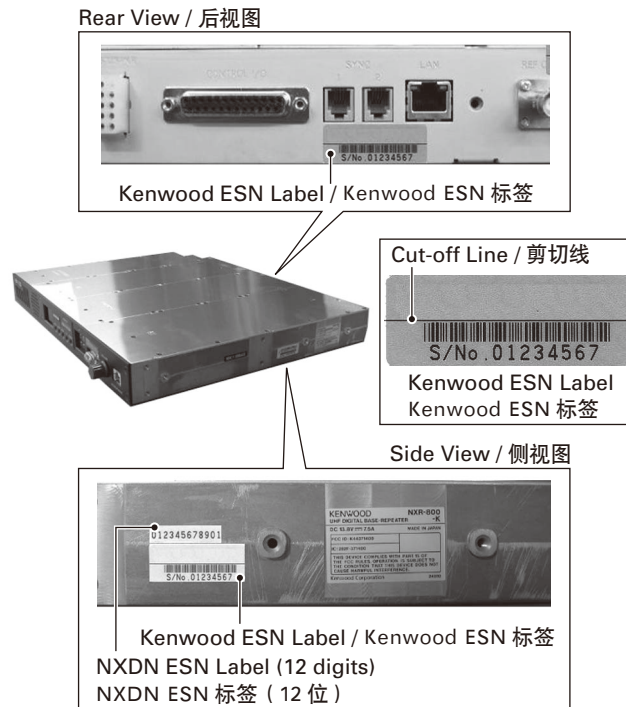
Data Type	Description
Firmware	NXR-700/800 Firmware
FPU Data (PC programming mode)	NXR-700 E type data.
Various Adjustment Data (PC test mode)	General adjustment values for the NXR-700/800.
Kenwood ESN (X53-414 only)	Model Name: NXR-700/800S Type: E The same number as the Kenwood ESN label is written.
NXDN ESN (X53-414 only)	The same number as the NXDN ESN label is written.

2-3. 印刷电路板数据

印刷电路板上写有以下数据：

数据类型	说明
固件	NXR-700/800 固件
FPU 数据 (PC 编程模式)	NXR-700 E 型数据
各种调整数据 (PC 测试模式)	NXR-700/800 的一般调整值。
Kenwood ESN (仅限于 X53-414)	型号名称：NXR-700/800S 型式：E 写有与 Kenwood ESN 标签相同的编号。
NXDN ESN (仅限于 X53-414)	写有与 NXDN ESN 标签相同的编号。

TROUBLE SHOOTING / 故障排除



Note: For the X53-414, a UPC code and UPC barcode is not printed on the Kenwood ESN Label. If necessary, cut the label at the cut-off line and attach only the serial number.

注意: 对于 X53-414, Kenwood ESN 标签上未印制 UPC 代码和 UPC 条码。如有必要, 可在剪切线处切断标签, 仅贴上序列号。

2-4. After Changing the PCB

1. After changing the printed circuit board, write the up-to-date Firmware following the instructions in the "REALIGNMENT 4. Firmware Programming Mode".
2. Using the KPG-109D(C), select your desired item (Model Name and Frequency) from the Model → Product Information menu, then use Program → Write Data to the repeater to write the FPU data (PC Programming mode). When writing to the repeater, 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 "ADJUSTMENT".
4. For the X53-414, attach the new labels corresponding to the new printed circuit board. (Refer to the images above for label placement.)
5. If necessary, write the FPU data used by the customer with the KPG-109D(C) or KPG-110SM.

2-4. 更换 PCB 后

1. 更换印刷电路板后, 按照“模式组合 4. 固件编程模式”的说明写入最新的固件。
2. 使用 KPG-109D(C), 从 Model → Product Information 菜单中选择所需的项目(型号名称和频率), 然后用 Program → Write Data to the repeater 写入 FPU 数据(PC 编程模式)。写入中继台时, 会出现与所选项目对应的警告讯息。单击 [OK] 继续写入数据。
3. 进入 Program → Test mode, 然后按照“调整”中的说明调整各项调整数据(PC 测试模式)。
4. 对于 X53-414, 贴上与新印刷电路板对应的新标签。(关于标签位置, 请参见上图。)
5. 如有必要, 可使用 KPG-109D(C) 或 KPG-110SM 写入用户使用的 FPU 数据。

Note:

- When a new printed circuit board is used, the Kenwood ESN changes, as does the Repeater Information display of the KPG-109D(C), but this does not have any effect on the operation of the transceiver.
- If changing to the original Kenwood ESN and NXDN ESN, please contact our service center.
- Re-installing other parts from original unit to Service unit is not required after changing to Service unit.

注意:

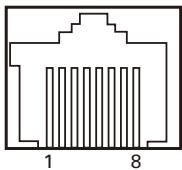
- 使用新印刷电路板时, Kenwood ESN 会改变, KPG-109D(C) 的中继台信息显示也会改变, 但这并不影响中继台的操作。
- 若要改为原来的 Kenwood ESN 和 NXDN ESN, 请与我方的维修中心联系。
- 换为维修单元之后, 不需要将原始单元的其他部件重新安装到维修单元。

ADJUSTMENT

Test Equipment Required for Alignment

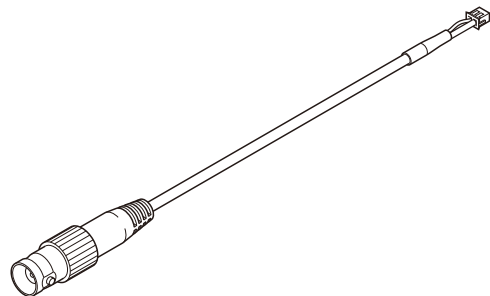
Test Equipment	Major Specifications	
1. Standard Signal Generator (SSG)	Frequency Range Modulation Output	400 to 512MHz Frequency modulation and external modulation 0.1 μ V to greater than 1mV
2. FR Power Meter	Input Impedance Operation Frequency Measurement Capability	50 Ω 400 to 512MHz or more Vicinity of 100W
3. Deviation Meter	Frequency Range	400 to 512MHz
4. Digital Volt Meter (DVM)	Measuring Range Input Impedance	1V to 20V DC High input impedance for minimum circuit loading
5. Oscilloscope		DC through 30MHz
6. High Sensitivity Frequency Counter	Frequency Range Frequency Stability	10Hz to 600MHz 0.2ppm or less
7. DC Ammeter		15A or more
8. AF Volt Meter (AF VTVM)	Frequency Range Voltage Range	50Hz to 10kHz 3mV to 3V
9. Audio Generator (AG)	Frequency Range Output	50Hz to 5kHz 0 to 1V
10. Distortion Meter	Capability Input Level	1% or less at 1kHz 50mV to 10Vrms
11. Voltmeter	Measuring Range Input Impedance	10V to 1.5V DC or less 50k Ω /V or greater
12. 4 Ω Dummy Load		Approx. 4 Ω , 5W
13. Spectrum Analyzer	Frequency Range Input Level Input Sensitivity Resolution Bandwidth Video Bandwidth	40MHz to 520MHz Up to +20dBm -100dBm 100Hz 100Hz
14. Tracking Generator	Frequency Range Output Level	40MHz to 520MHz -30dBm to 0dBm

MIC connector (Front panel view)

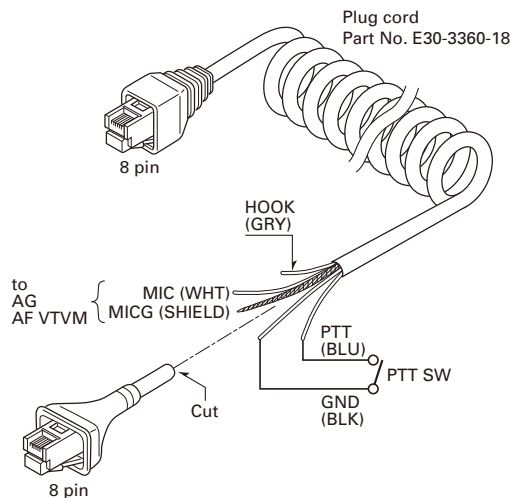


- | | |
|--------|---------|
| 1: NC | 5: MIG |
| 2: SB | 6: MIC |
| 3: GND | 7: HOOK |
| 4: PTT | 8: NC |

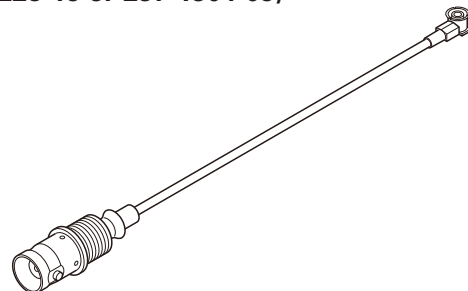
Jig for MCF adjustment (W05-1000-00)



Test cable for microphone input (E30-3360-18)



Jig for Drive AMP adjustment (E30-3228-15 or E37-1304-05)

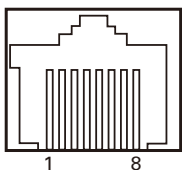


调整

调整所需的测试设备

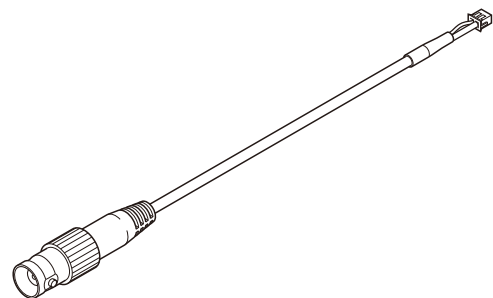
测试设备	主要规格	
1. 标准信号发生器 (SSG)	频率范围 调制 输出	400 到 512MHz 调频和外部调制 0.1 μ V 到大于 1mV
2. RF 功率计	输入阻抗 操作频率 测量范围	50 Ω 400 到 512MHz 或更高 100W 左右
3. 频偏仪	频率范围	400 到 512MHz
4. 数字电压表 (DVM)	测量范围 输入阻抗	直流 1V 到 20V 为最小电路负载高输入阻抗
5. 示波器		直流到 30MHz
6. 高灵敏度频率计数器	频率范围 频率稳定性	10Hz 到 600MHz 0.2ppm 或更低
7. 直流电流表		15A 或更高
8. 音频电压表 (AF VTVM)	频率范围 电压范围	50Hz 到 10kHz 3mV 到 3V
9. 音频发生器 (AG)	频率范围 输出	50Hz 到 5kHz 0 到 1V
10. 失真测试仪	能力 输入电平	在 1kHz 时 1% 或更低 50mV 到 10Vrms
11. 电压表	测量范围 输入阻抗	直流 10V 到 1.5V 或更低 50k Ω /V 或更高
12. 4 Ω 假负载		大约 4 Ω , 5W
13. 频谱分析仪	频率范围 输入电平 输入灵敏度 分辨率带宽 视频带宽	40MHz 到 520MHz 最高 +20dBm -100dBm 100Hz 100Hz
14. 轨迹发生器	频率范围 输出电平	40MHz 到 520MHz -30dBm 到 0dBm

MIC 连接器 (前面板视图)

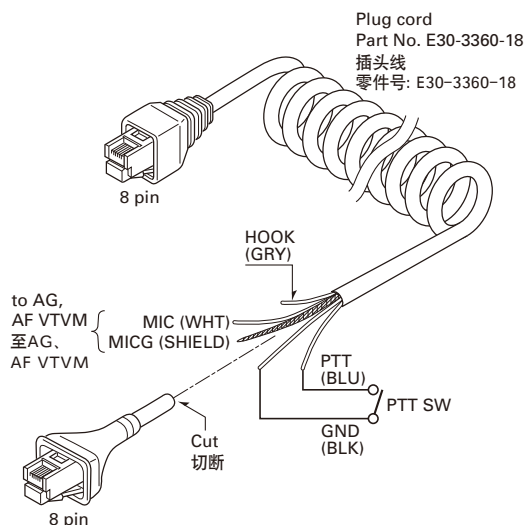


- 1: NC
- 2: SB
- 3: GND
- 4: PTT
- 5: MIG
- 6: MIC
- 7: HOOK
- 8: NC

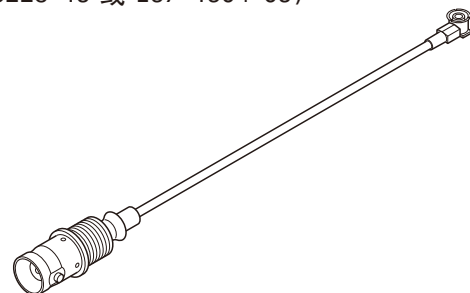
MCF 调整夹具 (W05-1000-00)



用于麦克风输入的测试电缆 (E30-3360-18)

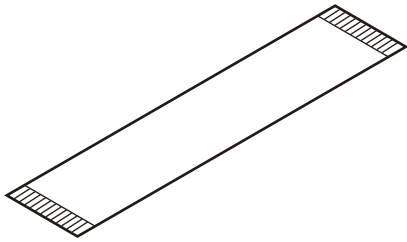


驱动 AMP 调整夹具 (E30-3228-15 或 E37-1304-05)

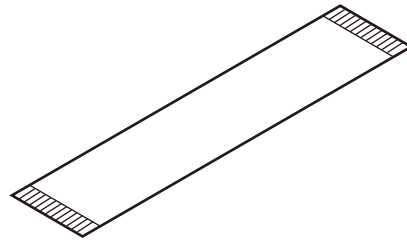


ADJUSTMENT / 调整

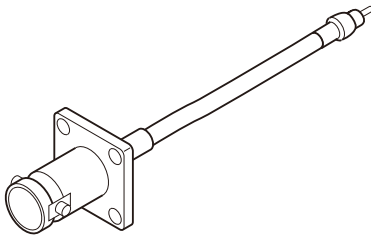
Flat cable (36-pin) about 256mm (E37-0979-05)



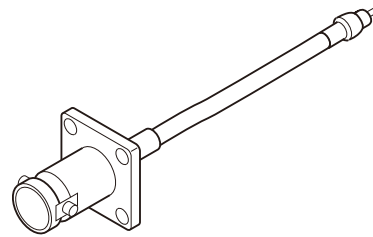
带状电缆 (36 针), 约 256mm (E37-0979-05)



ANT Jig for BPF adjustment (E30-3418-08)



用于 BPF 调整的 ANT 夹具 (E30-3418-08)



Test Signaling

■ Analog

No.	Decode tone	Encode tone
1	None	None
2	None	100Hz square wave
3	QT 67.0Hz	QT 67.0Hz
4	QT 151.4Hz	QT 151.4Hz
5	QT 210.7Hz	QT 210.7Hz
6	QT 254.1Hz	QT 254.1Hz
7	DQT D023N	DQT D023N
8	DQT D754I	DQT D754I
9	None	CWID encode (ID: VVV)
10	None	Single tone
11	DTMF decode (Code: 159D)	DTMF encode (Code: 159D)
12	None	DTMF encode (Code: 9)
13	None	Courtesy tone

■ NXDN

No.	Decode tone	Encode tone
1	RAN1	RAN1
2	RAN1	PN9
3	RAN1	Maximum deviation pattern

- Signaling number 1 is used for link test with voice.
- Signaling number 2 is used for TX modulation signal quality test. i.e, TX adjacent channel power, FSK error, Occupied bandwidth, Emission mask, etc.
- Signaling number 3 is used for TX deviation test. If the modulation mode is very narrow, the modulation frequency is 600Hz. If the modulation mode is narrow, the modulation frequency is 1200Hz.

测试信令

■ 模拟

号	解码音	编码音
1	无	无
2	无	100Hz 方波
3	QT 67.0Hz	QT 67.0Hz
4	QT 151.4Hz	QT 151.4Hz
5	QT 210.7Hz	QT 210.7Hz
6	QT 254.1Hz	QT 254.1Hz
7	DQT D023N	DQT D023N
8	DQT D754I	DQT D754I
9	无	CWID 编码 (ID: VVV)
10	无	单音
11	DTMF 解码 (代码: 159D)	DTMF 编码 (代码: 159D)
12	无	DTMF 编码 (代码: 9)
13	无	礼貌音

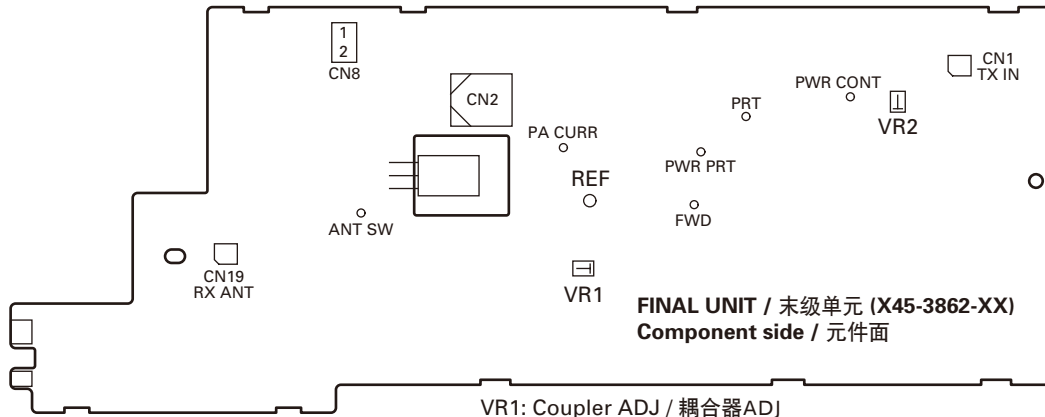
■ NXDN

号	解码音	编码音
1	RAN1	RAN1
2	RAN1	PN9
3	RAN1	最大频偏模式

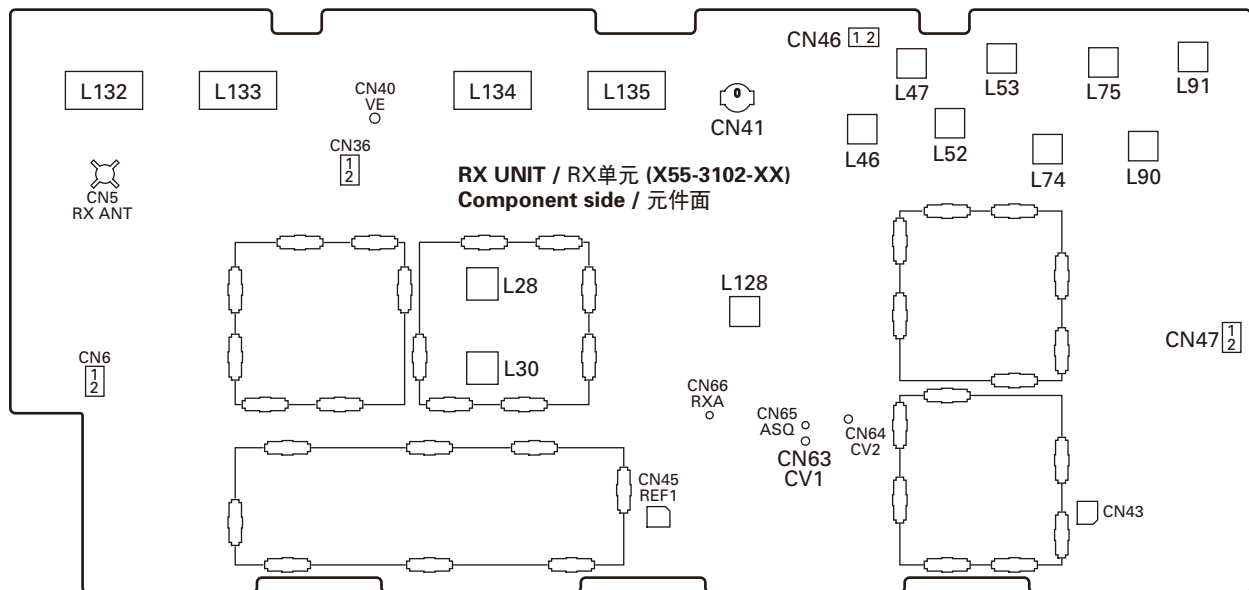
- 信令编号 1 用于语音链路测试。
- 信令编号 2 用于 TX 调制信号质量测试, 即 TX 临近信道功率、FSK 误差、占用带宽、辐射屏蔽等。
- 信令编号 3 用于 TX 频偏测试。如果调制模式为超窄, 则调制频率为 600Hz。如果调制模式为窄, 则调制频率为 1200Hz。

ADJUSTMENT / 调整

Adjustment Points / 调整点

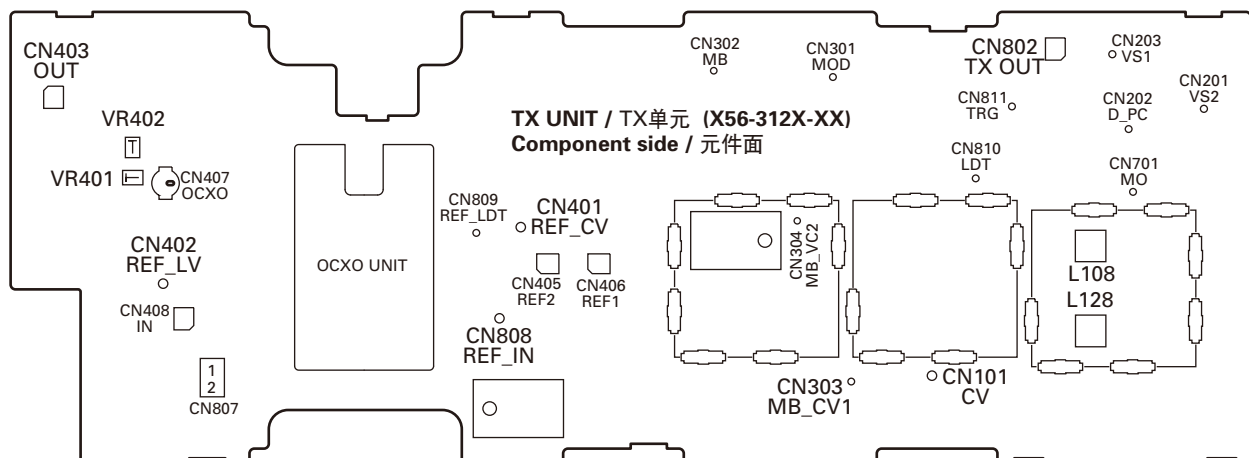


VR1: Coupler ADJ / 耦合器ADJ
VR2: High Transmit Power (Pre ADJ) / 高发射功率(预ADJ)



L28,30: Receive VCO Lock Voltage (Adjustment) / 接收VCO锁定电压(调整)
L132~135: BPF

L46,52,74,90: MCF WIDE
L47,53,75,91: MCF NARROW
L128: Discriminator / 鉴频器



L108,128: Transmit VCO Lock Voltage (Adjustment) / 发射VCO锁定电压(调整)
VR401,402: Reference Signal / 基准信号

NXR-800H

ADJUSTMENT

Alignment

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. Setting	1) Connect the DC power output to the rear panel DC terminal (13.2V). 2) Connect the front panel COM port (D-sub 9 connector) to the PC serial port with a cross-wired cable. 3) Activate the FPU to go to the test mode.							
2. Temperature Sensor	1) Receive unit (Celsius or Fahrenheit)	Thermometer		Room temperature	RX	PC ADJ	Measuring room temperature, write the value with PC.	
	2) Transmit unit (Celsius or Fahrenheit)				TX			
3. Driver Amplifier Power (Pre ADJ)	1) Low 2) High					PC ADJ	Value: 1	Fixed value writing
4. RF Power Down Detection	1) High 2) Low					PC ADJ	Value: 1	Fixed value writing
5. VCO Lock Voltage	1) REF Low SSG frequency: 10MHz -10ppm (9.99999MHz) SSG output: 0dBm	SSG DVM	TX	REF IN REF CV (CN401)			Check	1.5V or more
	2) REF High SSG frequency: 10MHz +10ppm (10.00001MHz) SSG output: 0dBm							3.5V or less
	3) MOD Low SSG frequency: 10MHz -10ppm (9.99999MHz) SSG output: 0dBm							1.5V or more
	4) MOD High SSG frequency: 10MHz +10ppm (10.00001MHz) SSG output: 0dBm							3.5V or less
6. Transmit VCO Lock Voltage (Adjustment)	1) A: Low	DVM	TX	CV	TX	L128	Adjust the interval of the L128. 1.35~1.55V	
	2) B: Low							
7. Receive VCO Lock Voltage (Adjustment) Pre ADJ	1) A: Low	DVM	RX	CV1	RX	L28	Adjust the interval of the L28. 1.55~1.60V	Make the adjustments after inserting the insulating tube in the L28 and L30 coils and applying the high frequency varnish.
	2) B: Low					L30	Adjust the interval of the L30. 1.85~1.90V	
8. Fixation of Oscillation Coil	1) Apply the high-frequency varnish to the adjusted Transmit VCO coil (L128, L108) and cover it with a shield cover. 2) Apply the high-frequency varnish to the adjusted Receive VCO coil (L28, L30) and cover it with a shield cover.							

调 整

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
1. 设定	1) 将 DC 电源输出连接到后面板 DC 端子 (13. 2V)。 2) 用交叉电缆将前面板 COM 端口 (D-sub 9 连接器) 连接到 PC 串行端口。 3) 启动 FPU 进入测试模式。							
2. 温度传感器	1) 接收单元 (摄氏或华氏)	温度计		室温	RX	PC 调整	测量室温, 用 PC 写入值。	
	2) 发射单元 (摄氏或华氏)				TX			
3. 驱动放大器功率 (预 ADJ)	1) 低 2) 高					PC 调整	值 : 1	固定值写入
4. RF 功率下降检测	1) 低 2) 高					PC 调整	值 : 1	固定值写入
5. VCO 锁定电压	1) REF 低 SSG 频率 : 10MHz -10ppm (9. 99999MHz) SSG 输出 : 0dBm	SSG DVM	TX	REF IN REF CV (CN401)			检查	1. 5V 或更高
	2) REF 高 SSG 频率 : 10MHz +10ppm (10. 00001MHz) SSG 输出 : 0dBm							3. 5V 或更低
	3) MOD 低 SSG 频率 : 10MHz -10ppm (9. 99999MHz) SSG 输出 : 0dBm			REF IN MB_CV1 (CN303)				1. 5V 或更高
	4) MOD 高 SSG 频率 : 10MHz +10ppm (10. 00001MHz) SSG 输出 : 0dBm							3. 5V 或更低
6. 发射 VCO 锁定电压 (调整)	1) A: 低	DVM	TX	CV	TX	L128	调整 L128 的间隔。 1. 35~1. 55V	
	2) B: 低							
4. 接收 VCO 锁定电压 (调整) 预 ADJ	1) A: 低	DVM	RX	CV1	RX	L28	调整 L28 的间隔。 1. 55~1. 60V	在 L28 和 L30 线圈中插入绝缘管之后进行调整, 然后涂上高频漆。
	2) B: 低					L30	调整 L30 的间隔。 1. 85~1. 90V	
8. 固定振荡线圈	1) 在已调整的发射 VCO 线圈 (L128、L108) 上涂上高频漆, 然后盖上屏蔽盖。 2) 在已调整的接收 VCO 线圈 (L28、L30) 上涂上高频漆, 然后盖上屏蔽盖。							

NXR-800H

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
9. Transmit VCO Lock Voltage (Check)	1) A: High	DVM	TX	CV			Check	3.6~4.2V
	2) B: High							
10. Receive VCO Lock Voltage (Adjustment & Check)	1) A: Low	DVM PC	RX	CV1			Check	0.9V or more
	2) A: High							4.40V or less
	3) B: Low							1.00V or more
	4) B: High							4.3V or less
11. Reference Signal The switching circuit to switch the OCXO and the internal reference oscillation	1) Connecting SSG to REF IN and 50Ω-load parallel. SSG frequency: 10MHz SSG output: +0dBm (224mV)	SSG Spectrum analyzer	Rear TX	REF IN REF OUT	TX	VR402	+8~+9dBm	The OCXO LED (orange) lights.
	2) SSG frequency: 10MHz SSG output: +0dBm (224mV)	SSG Oscilloscope	Rear TX	REF IN REF_LV		VR401	2.0Vp-p	The OCXO LED (green) lights.
	3) SSG frequency: 10MHz SSG output: +10dBm (708mV)	SSG Spectrum analyzer	Rear TX	REF IN REF OUT			Check	REF OUT: +10dBm or less The OCXO LED (orange) lights.
	4) SSG frequency: 10MHz SSG output: -7dBm (99.9mV)							REF OUT: -50dBm or less The OCXO LED goes off.
12. VCXO	1) Confirm that there is no OCXO and external reference input.	F. counter PC	TX	REF_IN		PC ADJ	5.99MHz+0.3ppm	±0.15ppm (5.99000270~5.99000090MHz) It takes a time from movement of adjustment value to stability.
13. Maximum Deviation (NXDN)	1) NXDN Narrow					PC ADJ	Value: 22800	Fixed value writing
	2) NXDN Very Narrow						Value: 10000	
14. Driver Amplifier Power	Disconnect the cable from TX OUT and insert a cable from power meter. After the adjustment, connect the cable to TX OUT. 1) Low 2) Center 3) High	Power meter	TX	TX OUT (CN802)		PC ADJ	+18dBm (63mW)	±0.1dB Disconnect the cable from TX OUT and insert a cable from power meter. After the adjustment, connect the cable to TX OUT.

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
9. 发射 VCO 锁定电压 (检查)	1)A: 高	DVM	TX	CV			检查	3.6~4.2V
	2)B: 高							
10. 接收 VCO 锁定电压 (调整和检查)	1)A: 低	DVM PC	RX	CV1			检查	0.9V 或更高
	2)A: 高							4.40V 或更低
	3)B: 低							1.00V 或更高
	4)B: 高							4.3V 或更低
11. 基准信号 切换 OCXO 和 内部基准振荡 的切换电路。	1)将 SSG 连接到 REF IN 和 50Ω 并联负载。 SSG 频率: 10MHz SSG 输出: +0dBm (224mV)	SSG 频谱分析仪	后面 TX	REF IN REF OUT	TX	VR402	+8~+9dBm	OCXO LED (橙色) 点亮。
	2)SSG 频率: 10MHz SSG 输出: +0dBm (224mV)	SSG 示波器	后面 TX	REF IN REF_LV		VR401	2.0V _{p-p}	OCXO LED (绿色) 点亮。
	3)SSG 频率: 10MHz SSG 输出: +10dBm (708mV)	SSG 频谱分析仪	后面 TX	REF IN REF OUT			检查	REF OUT: +10dBm 或更低 OCXO LED (橙色) 点亮。
	4)SSG 频率: 10MHz SSG 输出: -7dBm (99.9mV)							REF OUT: -50dBm 或更低 OCXO LED 熄灭。
12. VCXO	1)确认没有 OCXO 和外部基准输入。	频率计数器 PC	TX	REF_IN		PC 调整	5.99MHz+0.3ppm	±0.15ppm (5.99000270~5.99000090MHz) 从调整值移动到稳定需要一定时间。
13. 最大频偏 (NXDN)	1)NXDN 窄					PC 调整	值: 22800	固定值写入
	2)NXDN 超窄						值: 10000	
14. 驱动放大器功率	从 TX OUT 断开电缆, 插入功率表的电缆。 调整后, 将电缆连接到 TX OUT。 1)低 2)中心 3)高	功率计	TX	TX OUT (CN802)		PC 调整	+18dBm (63mW)	±0.1dB 从 TX OUT 断开电缆, 插入功率表的电缆。 调整后, 将电缆连接到 TX OUT。

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ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
15. High Transmit Power (Pre ADJ)	1) Center	Power meter PC	Rear	TX ANT		PC ADJ	Value: 1024	Fixed value writing
					Final	VR2	25.0W	±0.5W
16. Coupler ADJ	1) Low	DVM	Final	REF	Final	VR1	Adjust to the minimum value.	
17. High Transmit Power (Max power limit ADJ)	1) High	Power meter PC	Rear	TX ANT		PC ADJ	Value: 1024	Fixed value writing
					Final	VR2	30.0W	±1.0W
18. High Transmit Power	Frequency 1) Low 2) Center 3) High Attach the EXCITER/FINAL shield cover.	Power meter Ammeter	Rear	TX ANT		PC ADJ	25.0W	±0.5W 10.0A or less
							5.00W	±0.1W 5.5A or less
19. Low Transmit Power	Frequency 1) Low 2) Center 3) High Attach the EXCITER/FINAL shield cover.							
20. Deviation (The transmission VCO band is separated into A and B. 3-points for each, i.e., total of 6-points shall be adjusted.)	Modulation pattern : 100Hz square signal Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: (p-p)/2 1) A: Low 2) A: Center 3) A: High 4) B: Low 5) B: Center 6) B: High	Deviation meter Oscilloscope PC	Rear	TX ANT		PC ADJ	±1.10kHz	±0.05kHz
							Adjust it into clean square wave with changing "Sub-audible Gain" and "Audible Gain".	Connect the deviation meter to the TX ANT end via the ATT.
	Exit "Deviation" screen to "Test Mode" screen, then set test signaling mode to be "NXDN" and signaling number to be "3". Set Wide/Narrow drop down list to be "Narrow". Set test channel to be "1". Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: +peak, -peak Push "Transmit" button, then measure the deviation.						Check	±3.06kHz±0.20kHz Clean sine wave.

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
15. 高发射功率 (预 ADJ)	1) 中心	功率计 PC	后面	TX ANT		PC 调整	值 : 1024	固定值写入
					Final	VR2	25.0W	±0.5W
16. 耦合器 ADJ	1) 低	DVM	Final	REF	Final	VR1	调到最小值。	
17. 高发射功率 (最大功率范围 ADJ)	1) 高	功率计 PC	后面	TX ANT		PC 调整	值 : 1024	固定值写入
					Final	VR2	30.0W	±1.0W
18. 高发射功率	频率 1) 低 2) 中心 3) 高 安装 EXCITER/FINAL 屏蔽盖。	功率计 电流表	后面	TX ANT		PC 调整	25.0W	±0.5W 10.0A 或更低
							5.00W	±0.1W 5.5A 或更低
19. 低发射功率	频率 1) 低 2) 中心 3) 高 安装 EXCITER/FINAL 屏蔽盖。							
20. 频偏 (发射 VCO 频带被分成 A 和 B, 各有 3 个点, 共需调整 6 个点。)	调制模式 : 100Hz 方波信号 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭 LPF: 15kHz 减加重 : 关闭 检测器 : (p-p)/2 1) A: 低 2) A: 中心 3) A: 高 4) B: 低 5) B: 中心 6) B: 高	频偏仪 示波器 PC	后面	TX ANT		PC 调整	±1.10kHz	±0.05kHz
							通过更改 “Subaudible Gain” 和 “Audible Gain”, 将其调整到纯净的方波。	将频偏即通过 ATT 连接到 TX ANT 末端。
	退出“Deviation”画面至“Test Mode”画面, 然后, 将测试信令模式设为 “NXDN”, 将信令编号设为 “3”。 将宽 / 窄下拉列表设为 “Narrow”。将测试信道设为 “1”。 频偏仪设定 HPF: 关闭 LPF: 15kHz 减加重 : 关闭 检测器 : + 峰值, - 峰值 按 “Transmit” 按钮, 然后测量频偏。						检查	±3.06kHz ±0.20kHz 纯净的正弦波。

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ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
21. Maximum Deviation (Analog)	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: +peak, -peak AG setting: 1kHz/45mVrms (Sine wave, Terminal load)	Deviation meter AG DVM	Rear Front	TX ANT MIC		PC ADJ	±4.1kHz	±0.2kHz Connect the deviation meter to the TX ANT end via the ATT.
	±1.7kHz						±0.1kHz	
22. Standard Modulation Check	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: (p-p)/2 AG setting : 1kHz±3kHz DEV (Sine wave, Terminal load)						Check	4.5mV±1.5mV Connect the deviation meter to the TX ANT end via the ATT.
	2) Channel: 3 (Center) Wide/Narrow: Analog Narrow Connect the deviation meter to the TX ANT end via the ATT. AG setting : 1kHz±1.5kHz DEV (Sine wave, Terminal load)						5.5mV±1.5mV	
23. QT Deviation	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 3kHz De-emp: OFF Detector: (p-p)/2	Deviation meter	Rear	TX ANT		PC ADJ	±0.75kHz	±0.05kHz Connect the deviation meter to the TX ANT end via the ATT.
	2) Channel: 3 (Center) Wide/Narrow: Analog Narrow						±0.35kHz	±0.05kHz

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
21. 最大频偏 (模拟)	1) 信道: 3(中心) 宽/窄: 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭 LPF: 15kHz 减加重: 关闭 检测器: +峰值, -峰值 AG 设置: 1kHz/45mVrms (正弦波, 终端负载)	频偏仪 AG DVM	后面 前面	TX ANT MIC		PC 调 整	±4.1kHz	±0.2kHz 将频偏即通过 ATT 连接到 TX ANT 末端。
	±1.7kHz						±0.1kHz	
22. 标准调制 检查	1) 信道: 3(中心) 宽/窄: 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭 LPF: 15kHz 减加重: 关闭 检测器: (p-p)/2 AG 设置: 1kHz/±3kHz DEV (正弦波, 终端负载)					检查	4.5mV ± 1.5mV 将频偏即通过 ATT 连接到 TX ANT 末端。	
	2) 信道: 3(中心) 宽/窄: 模拟窄 将频偏即通过 ATT 连接到 TX ANT 末端。 AG 设置: 1kHz/±1.5kHz DEV (正弦波, 终端负载)						5.5mV ± 1.5mV	
23. QT 频偏	1) 信道: 3(中心) 宽/窄: 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭 LPF: 3kHz 减加重: 关闭 检测器: (p-p)/2	频偏仪	后面	TX ANT		PC 调 整	±0.75kHz	±0.05kHz 将频偏即通过 ATT 连接到 TX ANT 末端。
	2) 信道: 3(中心) 宽/窄: 模拟窄						±0.35kHz	±0.05kHz

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ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
24. DQT Deviation	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 3kHz De-emp: OFF Detector: Peak hold	Deviation meter	Rear	TX ANT		PC ADJ	±0.75kHz	±0.05kHz Connect the deviation meter to the TX ANT end via the ATT.
	±0.35kHz						±0.05kHz	
25. CW ID Deviation	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: +peak, -peak	Deviation meter	Rear	TX ANT		PC ADJ	±2.00kHz	±0.05kHz Connect the deviation meter to the TX ANT end via the ATT.
	±1.00kHz						±0.05kHz	
26. Test Tone Deviation	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF, LPF: 15kHz De-emp: OFF Detector: (p-p)/2	Deviation meter	Rear	TX ANT		PC ADJ	±3.00kHz	±0.05kHz Connect the deviation meter to the TX ANT end via the ATT.
	±1.50kHz						±0.05kHz	
27. DTMF Deviation	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF, LPF: 15kHz De-emp: OFF Detector: (p-p)/2	Deviation meter	Rear	TX ANT		PC ADJ	±2.85kHz	±0.05kHz Connect the deviation meter to the TX ANT end via the ATT.
	±1.50kHz						±0.05kHz	
28. Courtesy Tone Deviation	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF, LPF: 15kHz De-emp: OFF Detector: (p-p)/2	Deviation meter	Rear	TX ANT		PC ADJ	±1.00kHz	±0.05kHz Connect the deviation meter to the TX ANT end via the ATT.
	±0.50kHz						±0.05kHz	

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
24. DQT 频偏	1) 信道 : 3 (中心) 宽 / 窄 : 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭 LPF: 3kHz 减加重 : 关闭 检测器 : 峰值保持	频偏仪	后面	TX ANT		PC 调整	±0.75kHz	±0.05kHz 将频偏即通过 ATT 连接到 TX ANT 末端。
	±0.35kHz						±0.05kHz	
25. CW ID 频偏	1) 信道 : 3 (中心) 宽 / 窄 : 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭 LPF: 15kHz 减加重 : 关闭 检测器 : + 峰值, - 峰值	频偏仪	后面	TX ANT		PC 调整	±2.00kHz	±0.05kHz 将频偏即通过 ATT 连接到 TX ANT 末端。
	±1.00kHz						±0.05kHz	
26. 测试音频偏	1) 信道 : 3 (中心) 宽 / 窄 : 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭, LPF: 15kHz 减加重 : 关闭 检测器 : (p-p)/2	频偏仪	后面	TX ANT		PC 调整	±3.00kHz	±0.05kHz 将频偏即通过 ATT 连接到 TX ANT 末端。
	±1.50kHz						±0.05kHz	
27. DTMF 频偏	1) 信道 : 3 (中心) 宽 / 窄 : 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭, LPF: 15kHz 减加重 : 关闭 检测器 : (p-p)/2	频偏仪	后面	TX ANT		PC 调整	±2.85kHz	±0.05kHz 将频偏即通过 ATT 连接到 TX ANT 末端。
	±1.50kHz						±0.05kHz	
28. 礼貌音频偏	1) 信道 : 3 (中心) 宽 / 窄 : 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭, LPF: 15kHz 减加重 : 关闭 检测器 : (p-p)/2	频偏仪	后面	TX ANT		PC 调整	±1.00kHz	±0.05kHz 将频偏即通过 ATT 连接到 TX ANT 末端。
	±0.50kHz						±0.05kHz	

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
29. TD Deviation	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF, LPF: 3kHz De-emp: OFF Detector: +peak, -peak AG setting : 0.1kHz/0.5Vp-p (177mVrms)	Deviation meter AG DVM	Rear	TX ANT CONTROL I/O jack TD (pin 8)		PC ADJ	±0.75kHz	±0.02kHz Connect the deviation meter to the TX ANT end via the ATT.
	±0.75kHz						±0.02kHz	
30. Transmit Audio Input (TA)	1) Channel: 3 (Center) Wide/Narrow: Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF, LPF: 15kHz De-emp: OFF Detector: +peak, -peak AG setting : 1kHz/280mVrms	Deviation meter AG DVM	Rear	TX ANT CONTROL I/O jack TA (pin 9)		PC ADJ	±3.00kHz	±0.03kHz Connect the deviation meter to the TX ANT end via the ATT.
	±1.50kHz						±0.02kHz	
31. BPF	1) Tracking generator Output: -20dBm Spectrum analyzer Frequency: Desired frequency Span: 50MHz	Tracking generator Spectrum analyzer	Rear	RX ANT	RX	L132 L133 L134 L135	Adjust it by the programmed frequency to look like the wave in figure 1.	Refer to Fig. 1. (Page 130)
			RX	CN41				
32. MCF	1) Wide Tracking generator Output: -20dBm Spectrum analyzer Frequency: 49.95MHz Span: 100kHz	Tracking generator Spectrum analyzer	Rear	CN46	RX	L46 L52 L74 L90	Adjust it to look like the wave in figure 2.	Refer to Fig. 2. (Page 130)
	2) Narrow Spectrum analyzer Span: 50kHz			CN47				
33. Discriminator	1) Narrow Frequency: Desired frequency SSG output: -53dBm (501µV) SSG MOD: 1kHz SSG DEV: 1.5kHz AF output: 2V/4Ω	SSG AF VTVM	Rear	RX ANT TEST/ SPKR jack SPO (pin 12) 4Ω load	RX	L128	Adjust AF output max.	
34. RD Level	1) Wide/Narrow: Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: -53dBm (501µV) MOD: 1kHz DEV: ±3.0kHz	SSG AF VTVM	Rear	RX ANT CONTROL I/O jack RD (pin 10)		PC ADJ	80mV	±5mV
	2) Wide/Narrow: Analog Narrow SSG setting DEV: ±1.5kHz							

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
29. TD 频偏	1) 信道 : 3 (中心) 宽 / 窄 : 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭, LPF: 3kHz 减加重 : 关闭 检测器 : + 峰值, - 峰值 AG 设置 : 0.1kHz/0.5Vp-p (177mVrms)	频偏仪 AG DVM	后面	TX ANT CONTROL I/O 插孔 TD (8脚)		PC 调 整	±0.75kHz	±0.02kHz 将频偏即通过 ATT 连接到 TX ANT 末端。
	±0.75kHz						±0.02kHz	
30. 发射音频 输入 (TA)	1) 信道 : 3 (中心) 宽 / 窄 : 模拟宽 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭, LPF: 15kHz 减加重 : 关闭 检测器 : + 峰值, - 峰值 AG 设置 : 1kHz/280mVrms	频偏仪 AG DVM	后面	TX ANT CONTROL I/O 插孔 TA (9脚)		PC 调 整	±3.00kHz	±0.03kHz 将频偏即通过 ATT 连接到 TX ANT 末端。
	±1.50kHz						±0.02kHz	
31. BPF	1) 轨迹发生器 输出 : -20dBm 频谱分析仪 频率 : 所需频率 跨度 : 50MHz	轨迹发生 器 频谱分析 仪	后面 RX	RX ANT CN41	RX	L132 L133 L134 L135	通过编程的频率将其调整到类似图 1 的波。	参见图 1。(第 131 页)
32. MCF	1) 宽 轨迹发生器 输出 : -20dBm 频谱分析仪 频率 : 49.95MHz 跨度 : 100kHz	轨迹发生 器 频谱分析 仪	后面 RX	CN46 CN47	RX	L46 L52 L74 L90	将其调整到类似图 2 的波。	参见图 2。(第 131 页)
	2) 窄 频谱分析仪 跨度 : 50kHz					L47 L53 L75 L91	将其调整到类似图 3 的波。	
33. 鉴频器	1) 窄 频率 : 所需频率 SSG 输出 : -53dBm (501μV) SSG MOD: 1kHz SSG DEV: 1.5kHz AF 输出 : 2V/4Ω	SSG AF VTVM	后面	RX ANT TEST/SPKR 插孔 SPO (12脚) 4Ω 负载	RX	L128	调整 AF 输出最大值。	
34. RD 电平	1) 宽 / 窄 : 模拟宽 将 SSG 连接到 RX ANT。 SSG 设定 频率 : 所需频率 输出 : -53dBm (501μV) MOD: 1kHz DEV: ±3.0kHz	SSG AF VTVM	后面	RX ANT CONTROL I/O 插孔 RD (10脚)		PC 调 整	80mV	±5mV
	2) 宽 / 窄 : 模拟窄 SSG 设定 DEV: ±1.5kHz							

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ADJUSTMENT

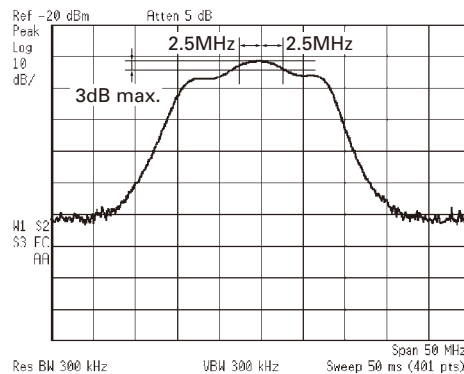
Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
35. RA Level	1) Wide/Narrow: Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: -53dBm (501μV) MOD: 1kHz DEV: ±3.0kHz	SSG AF VTVM	Rear	RX ANT CONTROL I/O jack RA (pin 11)		PC ADJ	400mV	±20mV
	2) Wide/Narrow: Analog Narrow SSG setting DEV: ±1.5kHz							
36. Receiver Sensitivity Check	1) Wide/Narrow: Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency MOD: 1kHz DEV: ±3.0kHz AF: 0.45V/4Ω	SSG Distortion meter	Rear	RX ANT TEST/ SPKR jack SPO (pin 12) 4Ω load			Check	-115dBm (0.4μV) or less
	3) Wide/Narrow: Analog Narrow SSG setting DEV: ±1.5kHz							
37. Tight Squelch	1) Wide/Narrow: Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: 12dB SINAD level +7dB MOD: 1kHz DEV: ±3.0kHz	SSG Oscilloscope Audio analyzer	Rear	RX ANT TEST/ SPKR jack SPO (pin 12) 4Ω load		PC ADJ	Adjust it to the level to open the squelch.	
	2) SSG output: OFF						Check	The squelch shall be closed.
	3) Wide/Narrow: Analog Narrow SSG setting DEV: ±1.5kHz					PC ADJ	Adjust it to the level to open the squelch.	
	4) SSG output: OFF					Check	The squelch shall be closed.	
38. Open Squelch	1) Wide/Narrow: Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: 12dB SINAD level -2dB MOD: 1kHz DEV: ±3.0kHz	SSG Oscilloscope Audio analyzer	Rear	RX ANT TEST/ SPKR jack SPO (pin 12) 4Ω load		PC ADJ	Adjust it to the level to open the squelch.	
	2) SSG output: OFF						Check	The squelch shall be closed.
	3) Wide/Narrow: Analog Narrow SSG setting DEV: ±1.5kHz					PC ADJ	Adjust it to the level to open the squelch.	
	4) SSG output: OFF					Check	The squelch shall be closed.	

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注	
		测量装置	单元	端子	单元	部件	方 法		
35. RA 电平	1) 宽 / 窄 : 模拟宽 将 SSG 连接到 RX ANT。 SSG 设定 频率 : 所需频率 输出 : -53dBm (501μV) MOD: 1kHz DEV: ±3.0kHz	SSG AF VTVM	后面	RX ANT CONTROL I/O 插孔 RA (11 脚)		PC 调 整	400mV	±20mV	
	2) 宽 / 窄 : 模拟窄 SSG 设定 DEV: ±1.5kHz								
36. 接收机灵敏 度检查	1) 宽 / 窄 : 模拟宽 将 SSG 连接到 RX ANT。 SSG 设定 频率 : 所需频率 MOD: 1kHz DEV: ±3.0kHz AF: 0.45V/4Ω	SSG 失真测试 仪	后面	RX ANT TEST/SPKR 插孔 SPO (12 脚) 4Ω 负载			检查	-115dBm (0.4μV) 或更低	
	2) 宽 / 窄 : 模拟窄 SSG 设定 DEV: ±1.5kHz								
37. 深静噪	1) 宽 / 窄 : 模拟宽 将 SSG 连接到 RX ANT。 SSG 设定 频率 : 所需频率 输出 : 12dB SINAD 电平 +7dB MOD: 1kHz DEV: ±3.0kHz	SSG 示波器 音频分析 仪	后面	RX ANT TEST/SPKR 插孔 SPO (12 脚) 4Ω 负载		PC 调 整	将其调整到打开静 噪的电平。		
	2) SSG 输出 : 关闭						检查		静噪应关闭。
	3) 宽 / 窄 : 模拟窄 SSG 设定 DEV: ±1.5kHz						PC 调 整		将其调整到打开静 噪的电平。
	4) SSG 输出 : 关闭						检查		静噪应关闭。
38. 静噪开	1) 宽 / 窄 : 模拟宽 将 SSG 连接到 RX ANT。 SSG 设定 频率 : 所需频率 输出 : 12dB SINAD 电平 -2dB MOD: 1kHz DEV: ±3.0kHz	SSG 示波器 音频分析 仪	后面	RX ANT TEST/SPKR 插孔 SPO (12 脚) 4Ω 负载		PC 调 整	将其调整到打开静 噪的电平。		
	2) SSG 输出 : 关闭						检查		静噪应关闭。
	3) 宽 / 窄 : 模拟窄 SSG 设定 DEV: ±1.5kHz						PC 调 整		将其调整到打开静 噪的电平。
	4) SSG 输出 : 关闭						检查		静噪应关闭。

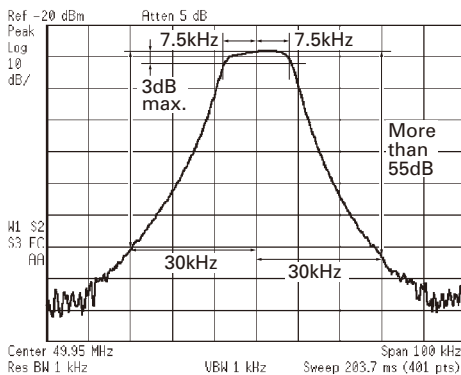
ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
39. RSSI	Wide/Narrow: Analog Narrow Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency MOD: 1kHz DEV: ± 1.5 kHz 1) SSG output: -53 dBm (501μ V)	SSG AF VTVM	Rear	RX ANT TEST/ SPKR jack RSSI (pin 8)		PC ADJ	3.5V	± 0.1 V
	2) Point: High Level SSG output : 12dB SINAD level +7dB						PC ADJ (Vin4)	Apply the value (Vin4)
	3) Point: Low Level SSG output : 12dB SINAD level -2dB							
40. Repeater Gain	1) Wide/Narrow: Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: -53 dBm (501μ V) MOD: 1.0kHz DEV: ± 1.0 kHz Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: +peak, -peak	SSG Deviation meter	Rear	RX ANT TX ANT		PC ADJ	± 1.00 kHz	± 0.10 kHz
	3) Wide/Narrow: Analog Narrow							± 1.00 kHz



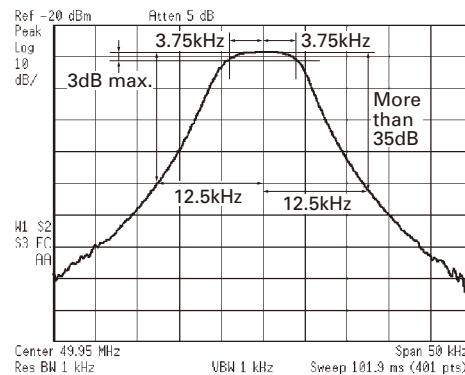
BPF center frequency (Production default)
: 455.6MHz (C), 415.05MHz (C2)
Pass bandwidth
: ± 2.5 MHz at 3dB

Fig. 1



Center frequency
: 49.95MHz
Pass bandwidth
: ± 7.5 MHz at 3dB

Fig. 2

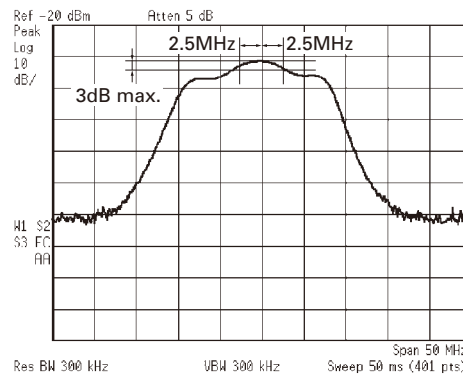


Center frequency
: 49.95MHz
Pass bandwidth
: ± 3.75 MHz at 3dB

Fig. 3

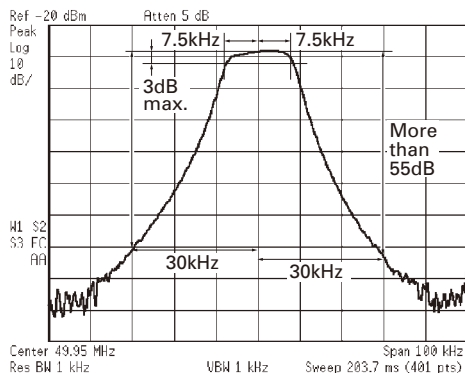
调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
39. RSSI	宽 / 窄：模拟宽 将 SSG 连接到 RX ANT。 SSG 设定 频率：所需频率 MOD: 1kHz DEV: ± 1.5 kHz 1) SSG 输出：-53dBm (501 μ V)	SSG AF VTVM	后面	RX ANT TEST/SPKR 插孔 RSSI (8 脚)		PC 调 整	3.5V	± 0.1 V
	PC 调 整 (Vin4)						应用值 (Vin4)	
40. 中继台增益	1) 宽 / 窄：模拟宽 将 SSG 连接到 RX ANT。 SSG 设定 频率：所需频率 输出：-53dBm (501 μ V) MOD: 1.0kHz DEV: ± 1.0 kHz 将频偏即通过 ATT 连接到 TX ANT 末端。 频偏仪设定 HPF: 关闭 LPF: 15kHz 加重: 关闭 检测器: + 峰值, - 峰值	SSG 频偏仪	后面	RX ANT TX ANT		PC 调 整	± 1.00 kHz	± 0.10 kHz
	2) 宽 / 窄：模拟窄						± 1.00 kHz	± 0.10 kHz



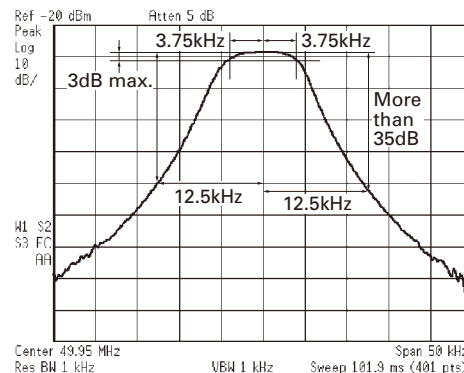
BPF 中心频率 (生产默认)
: 455.6MHz (C), 415.05MHz (C2)
通过频宽 : 3dB 时 ± 2.5 MHz

图 1



中心频率
: 49.95MHz
通过频宽
: 3dB 时 ± 7.5 MHz

图 2



中心频率
: 49.95MHz
通过频宽
: 3dB 时 ± 3.75 MHz

图 3

NXR-800H

ADJUSTMENT

Adjustment for KXK-3 (OCXO unit)

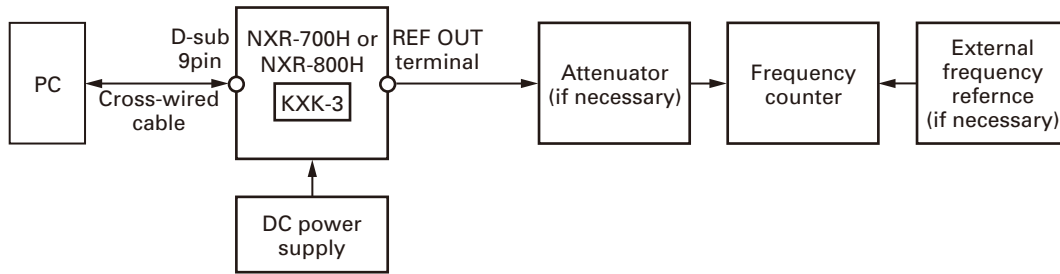
We recommend that the frequency adjustment be checked each time the radio is serviced, or at least once per year. Maintenance should only be performed under normal temperatures.

■ Test Equipment Required for Alignment

Test Equipment	Major Specifications	
1. Frequency Counter	Frequency Range	Up to 50MHz
	Resolution	9 digits
	Reference Frequency Accuracy	Smaller than 0.01ppm
	Input level	Up to 5Vpp

■ Adjustment Setup

The KXK-3 OCXO unit must be mounted on the NXR-700H or NXR-800H repeater. Adjustment setup is shown as follows.



To adjust the KXK-3 OCXO unit, some preparations are required.

1. The NXR-700H or NXR-800H with the KXK-3 OCXO unit must be warmed up at least 24 hours before the adjustment is made.
The environment temperature must be stable.
2. The frequency counter (or reference oscillator) must be warmed up as defined by the equipment manufacturer.

■ Adjustment

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. Setting	1) Connect the DC power output to the rear panel DC terminal (13.2V). 2) Connect the "REF OUT" terminal to the frequency counter. 3) Warm-up the equipment and KXK-3 properly. 4) Connect the front panel COM port (D-sub 9 connector) to the PC serial port with a cross-wired cable. 5) Activate the FPU to go to the test mode.							
2. OCXO frequency adjustment		f. counter	Rear	REF OUT		PC ADJ		±0.15ppm 9.9999850MHz~ 10.00000150MHz

Note:

Adjusted data is stored in the KXK-3 internal memory, therefore no re-adjustment is required when the adjusted KXK-3 is moved to another NXR-700H or NXR-800H.

调 整

KXK-3(OCXO 单元) 的调整

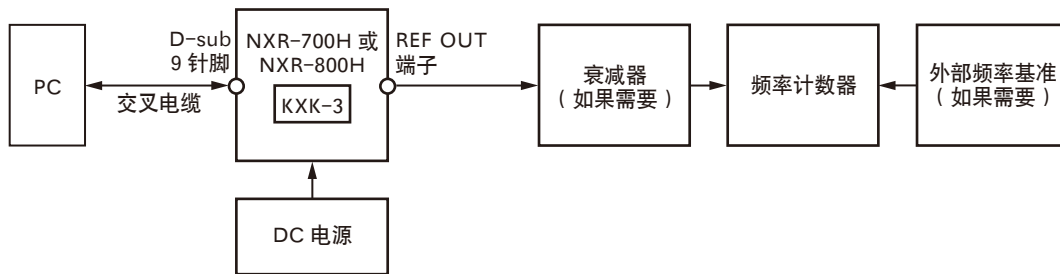
建议在每次维修中继台时进行频率调整检查，或者每年至少检查一次。
维护工作只能在常温下进行。

■调整所需的测试设备

测 试 设 备	主 要 规 格	
1. 频率计数器	频率范围	最多 50MHz
	分辨率	9 位
	基准频率精度	小于 0.01ppm
	输入电平	最多 5Vpp

■调整设置

KXK-3 OCXO 单元必须安装在 NXR-700H 或 NXR-800H 中继台上。调整设置如下所示。



要调整 KXK-3 OCXO 单元，需要进行一些准备。

1. 进行调整之前，装有 KXK-3 OCXO 单元的 NXR-700H 或 NXR-800H 必须预热至少 24 小时。环境温度必须稳定。
2. 必须依照设备制造商的规定对频率计数器（或基准振荡器）进行预热。

■调整

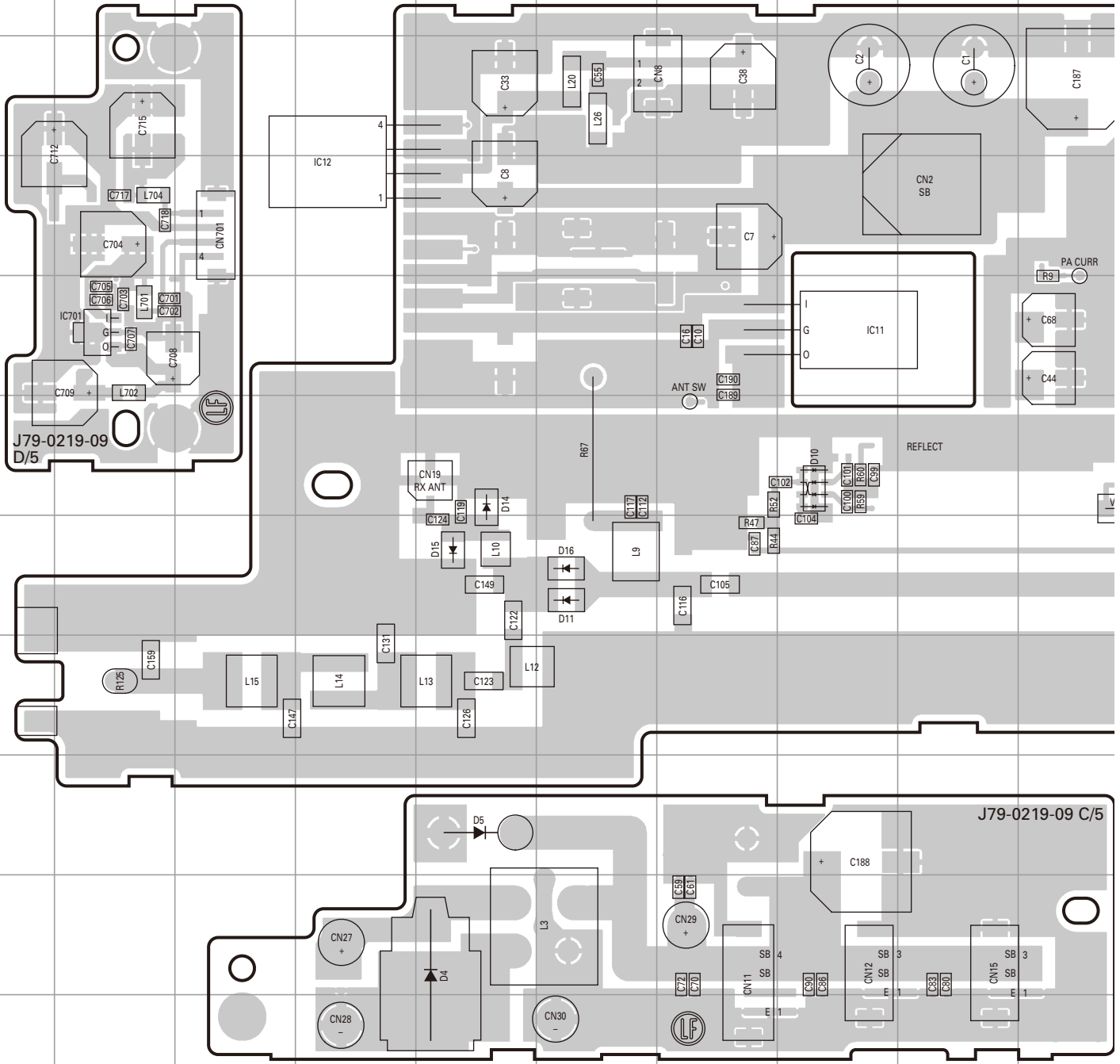
项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
1. 设定	1) 将 DC 电源输出连接到后面板 DC 端子 (13.2V)。 2) 将“REF OUT”端子连接到频率计数器。 3) 正确预热设备和 KXK-3。 4) 用十字交叉线将前面板 COM 端口 (D-sub 9 连接器) 连接到 PC 串行端口。 5) 启动 FPU 进入测试模式。							
2. OCXO 频率调整		频率计数器	后面	REF OUT		PC 调整		±0.15ppm 9.9999850MHz~ 10.00000150MHz

注意：

调整的数据储存在 KXK-3 内部存储器中，因此，将已调整好的 KXK-3 移至其他 NXR-700H 或 NXR-800H 时，不需要重新调整。

NXR-800H PC BOARD / PC板

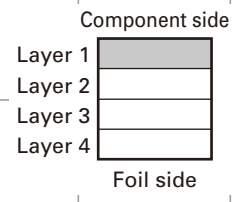
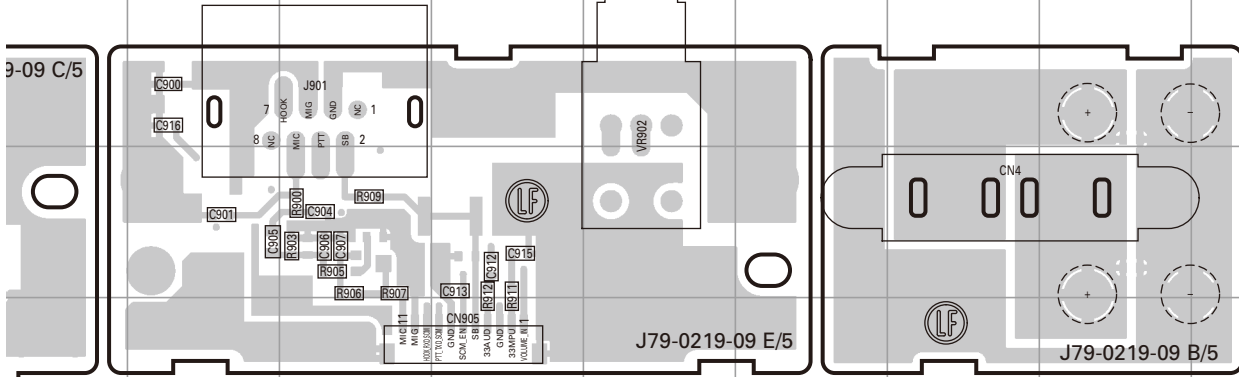
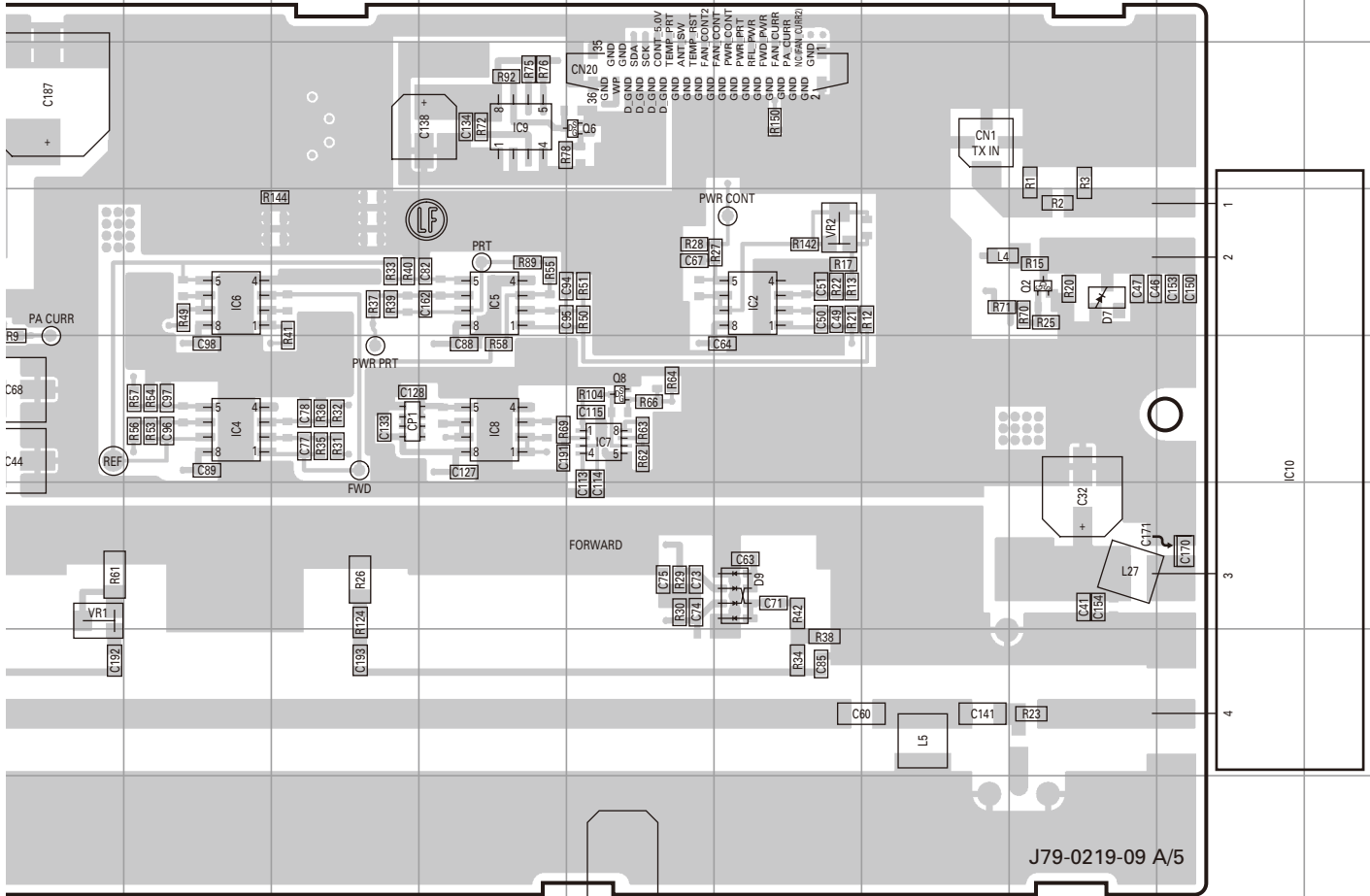
FINAL UNIT (X45-3862-70): C Component side view (J79-0219-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC2	4O	IC8	5M	IC701	5B	D5	9E	D14	6E
IC4	5K	IC9	3M	Q2	4Q	D7	4Q	D15	7E
IC5	4M	IC10	5R	Q6	3N	D9	6O	D16	7F
IC6	4K	IC11	5H	Q8	5N	D10	6H		
IC7	5N	IC12	4D	D4	10E	D11	7F		

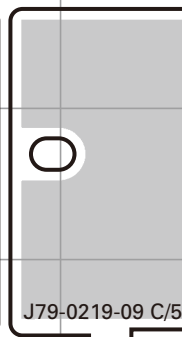
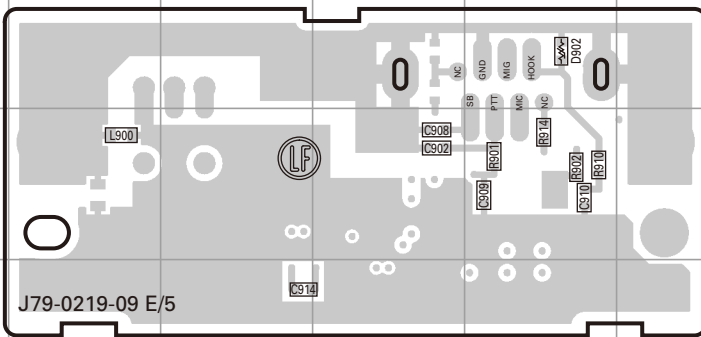
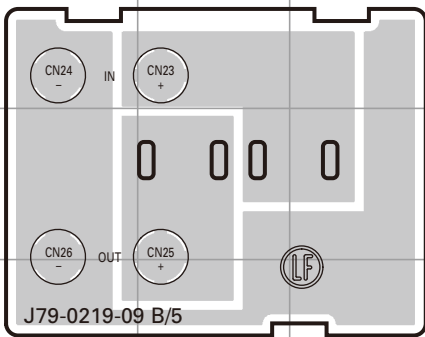
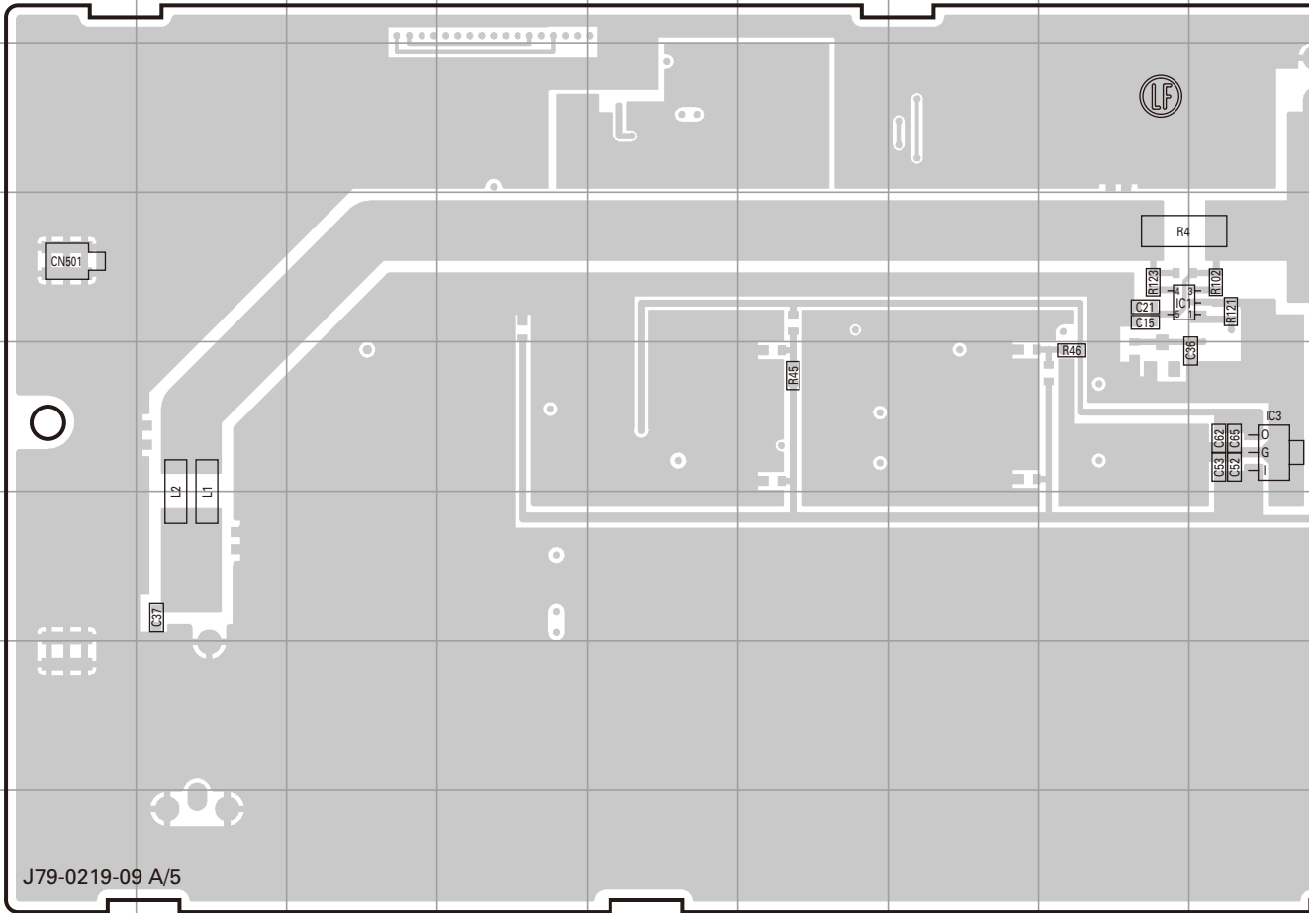
PC BOARD / PC板 NXR-800H

FINAL UNIT (X45-3862-70): C Component side view (J79-0219-09)



NXR-800H PC BOARD / PC板

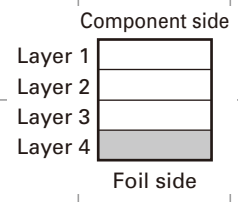
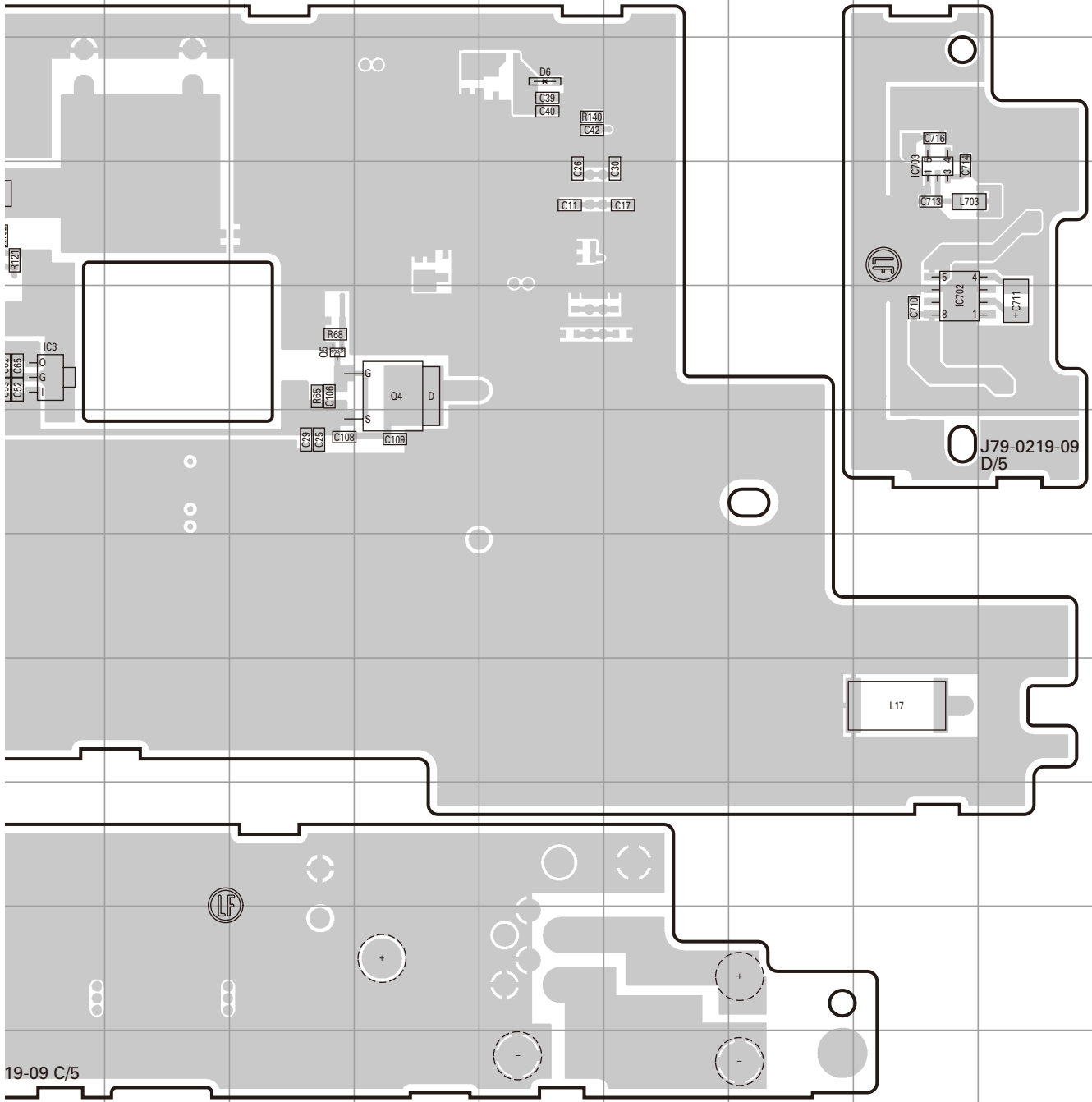
FINAL UNIT (X45-3862-70): C
Foil side view (J79-0219-09)



Ref. No.	Address	Ref. No.	Address
IC1	4I	Q4	5M
IC3	5J	Q5	5L
IC702	5Q	D6	3N
IC703	4Q	D902	9H

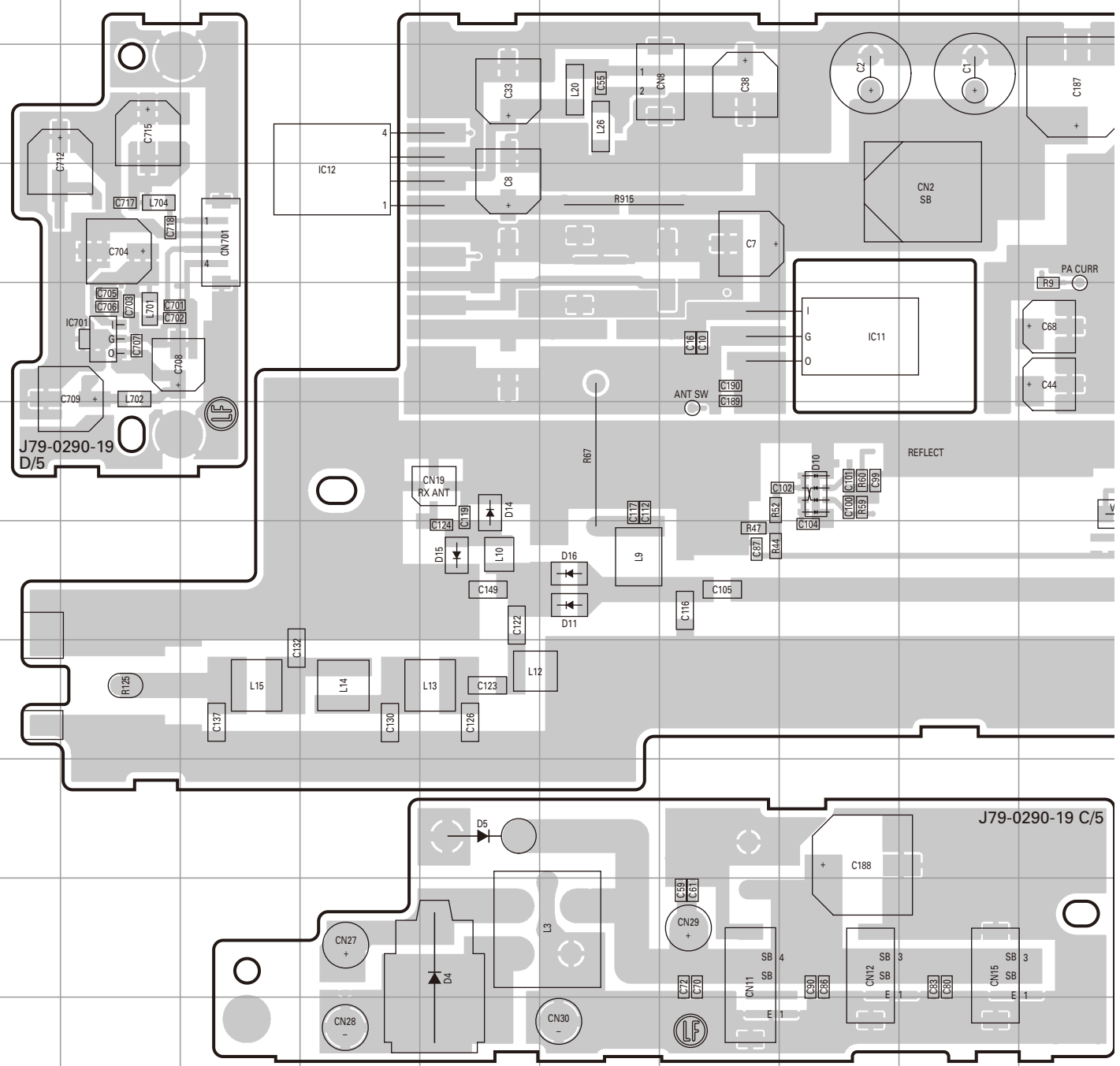
PC BOARD / PC板 NXR-800H

FINAL UNIT (X45-3862-70): C
Foil side view (J79-0219-09)



NXR-800H PC BOARD / PC板

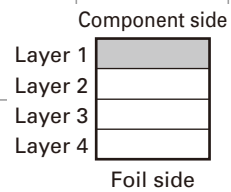
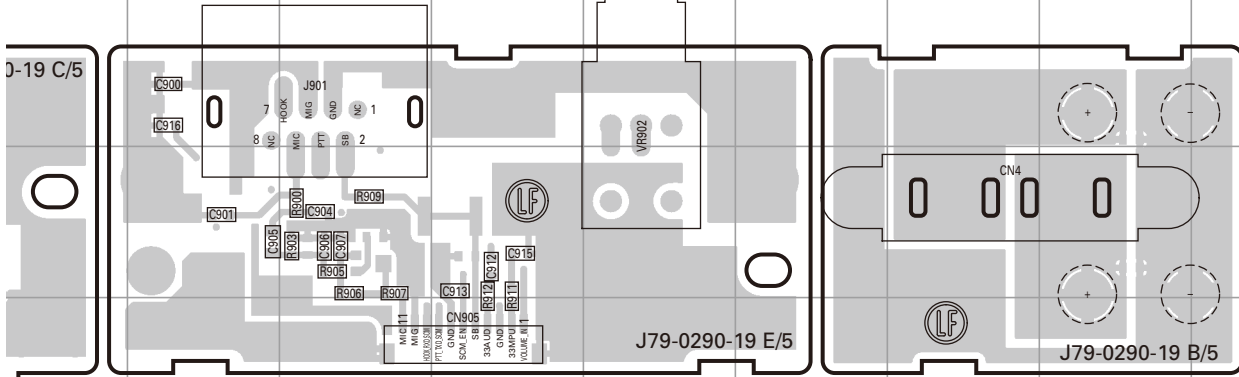
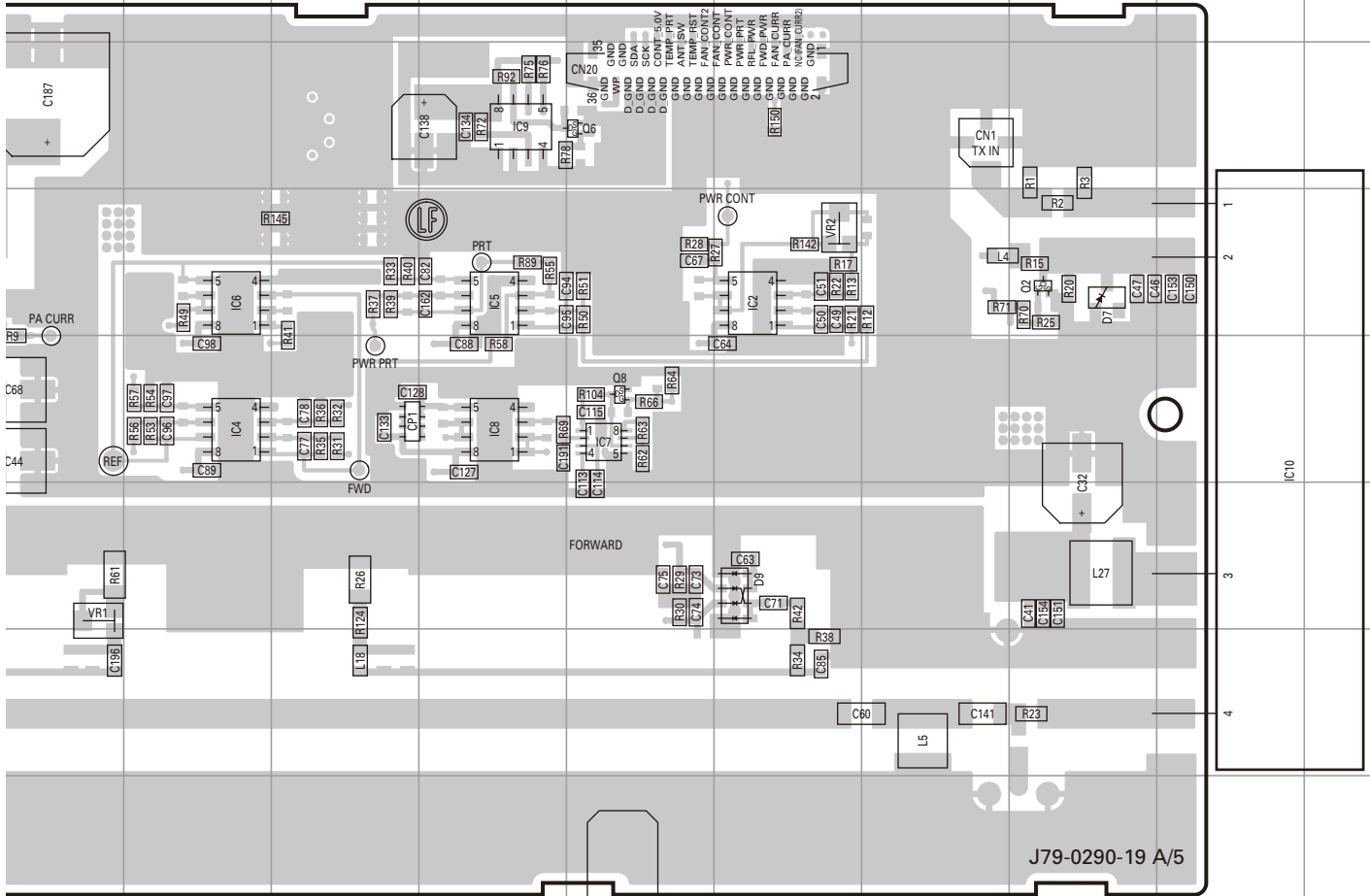
FINAL UNIT (X45-3862-71): C2
Component side view (J79-0290-19)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC2	4O	IC8	5M	IC701	5B	D5	9E	D14	6E
IC4	5K	IC9	3M	Q2	4Q	D7	4Q	D15	7E
IC5	4M	IC10	5R	Q6	3N	D9	6O	D16	7F
IC6	4K	IC11	5H	Q8	5N	D10	6H		
IC7	5N	IC12	4D	D4	10E	D11	7F		

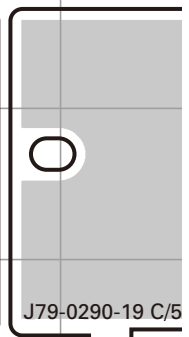
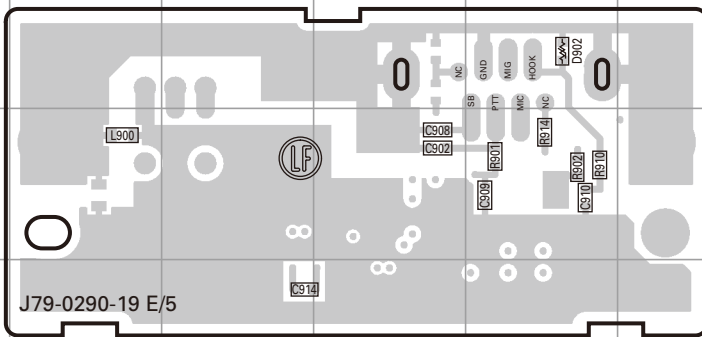
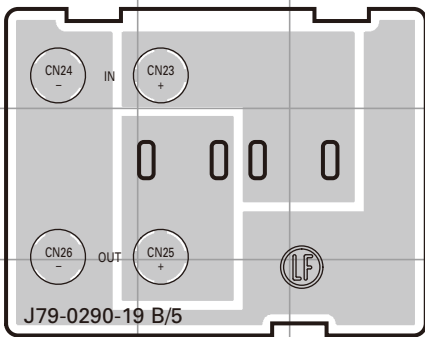
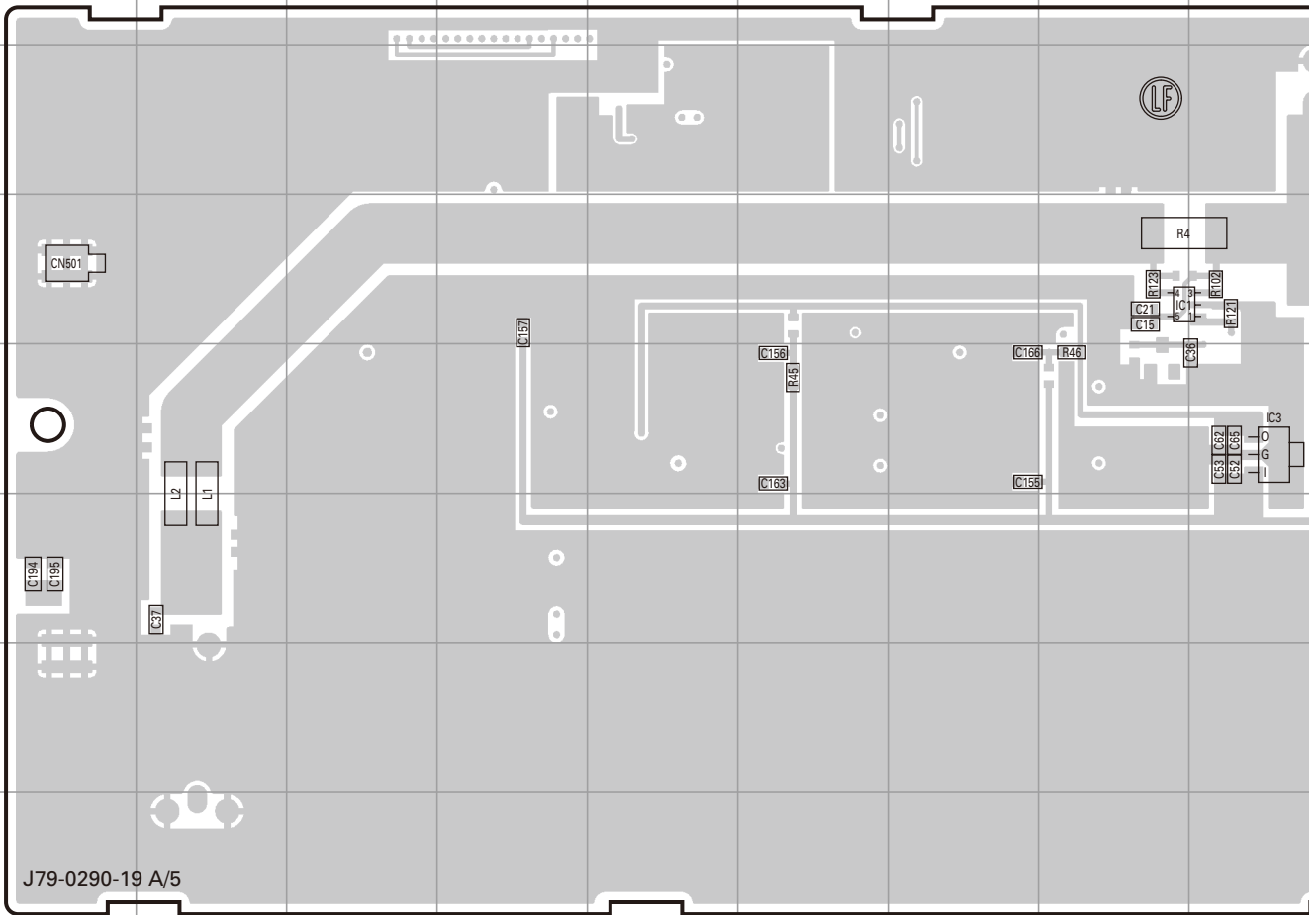
PC BOARD / PC板 NXR-800H

FINAL UNIT (X45-3862-71): C2 Component side view (J79-0290-19)



NXR-800H PC BOARD / PC板

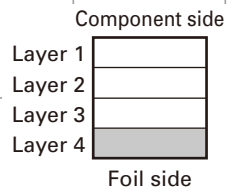
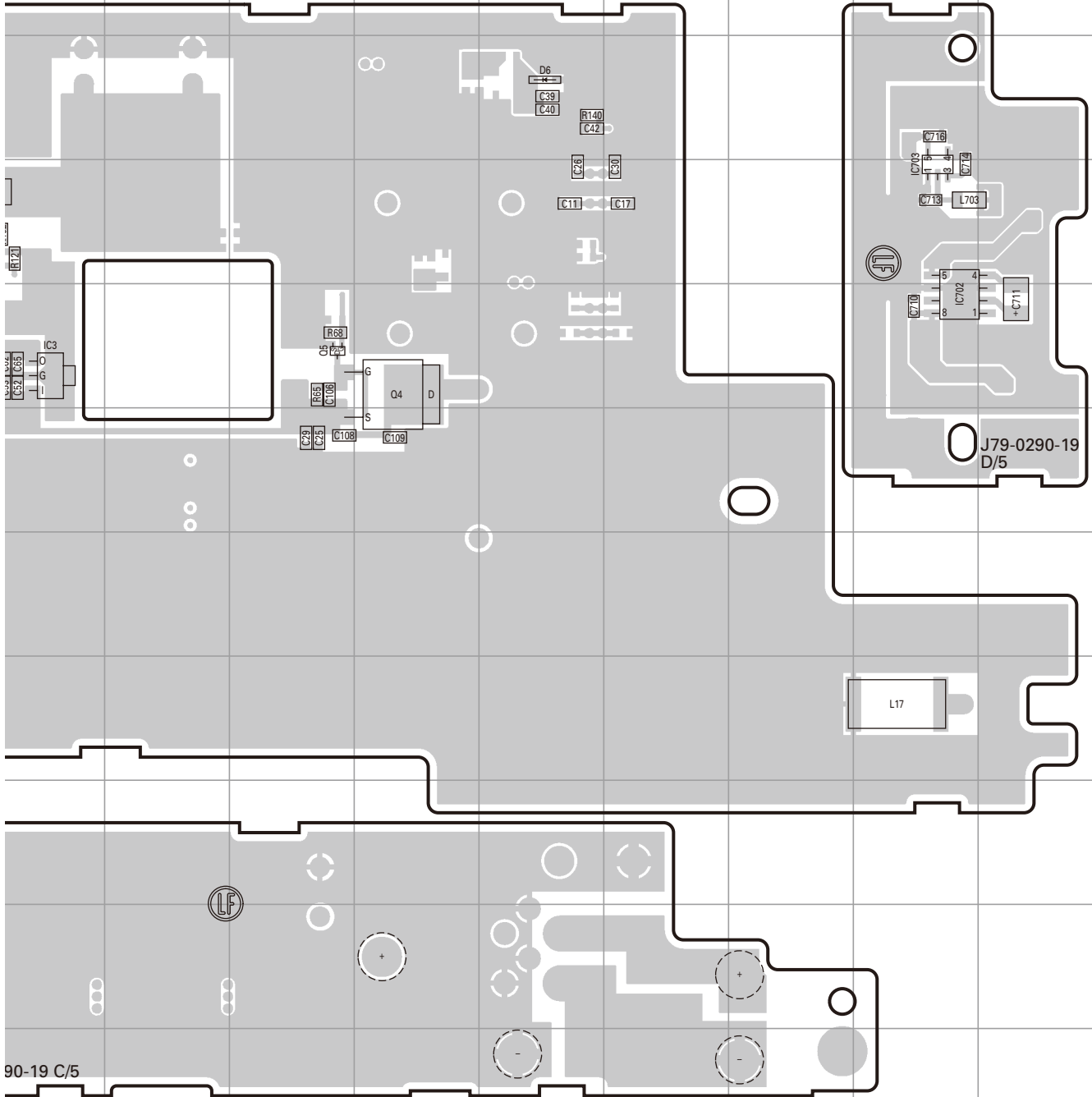
FINAL UNIT (X45-3862-71): C2
Foil side view (J79-0290-19)



Ref. No.	Address	Ref. No.	Address
IC1	4I	Q4	5M
IC3	5J	Q5	5L
IC702	5Q	D6	3N
IC703	4Q	D902	9H

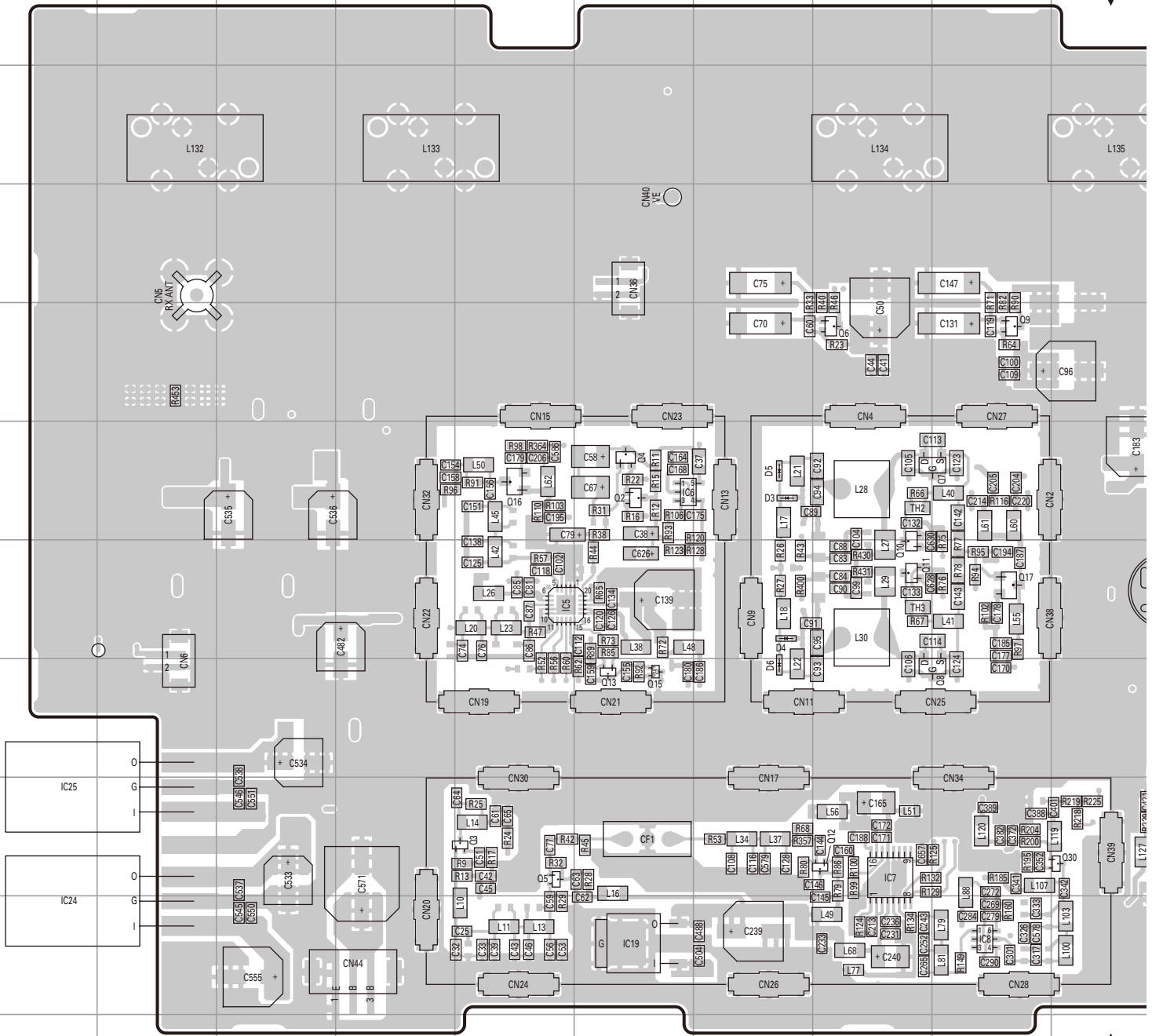
PC BOARD / PC板 NXR-800H

FINAL UNIT (X45-3862-71): C2
Foil side view (J79-0290-19)



NXR-800H PC BOARD / PC板

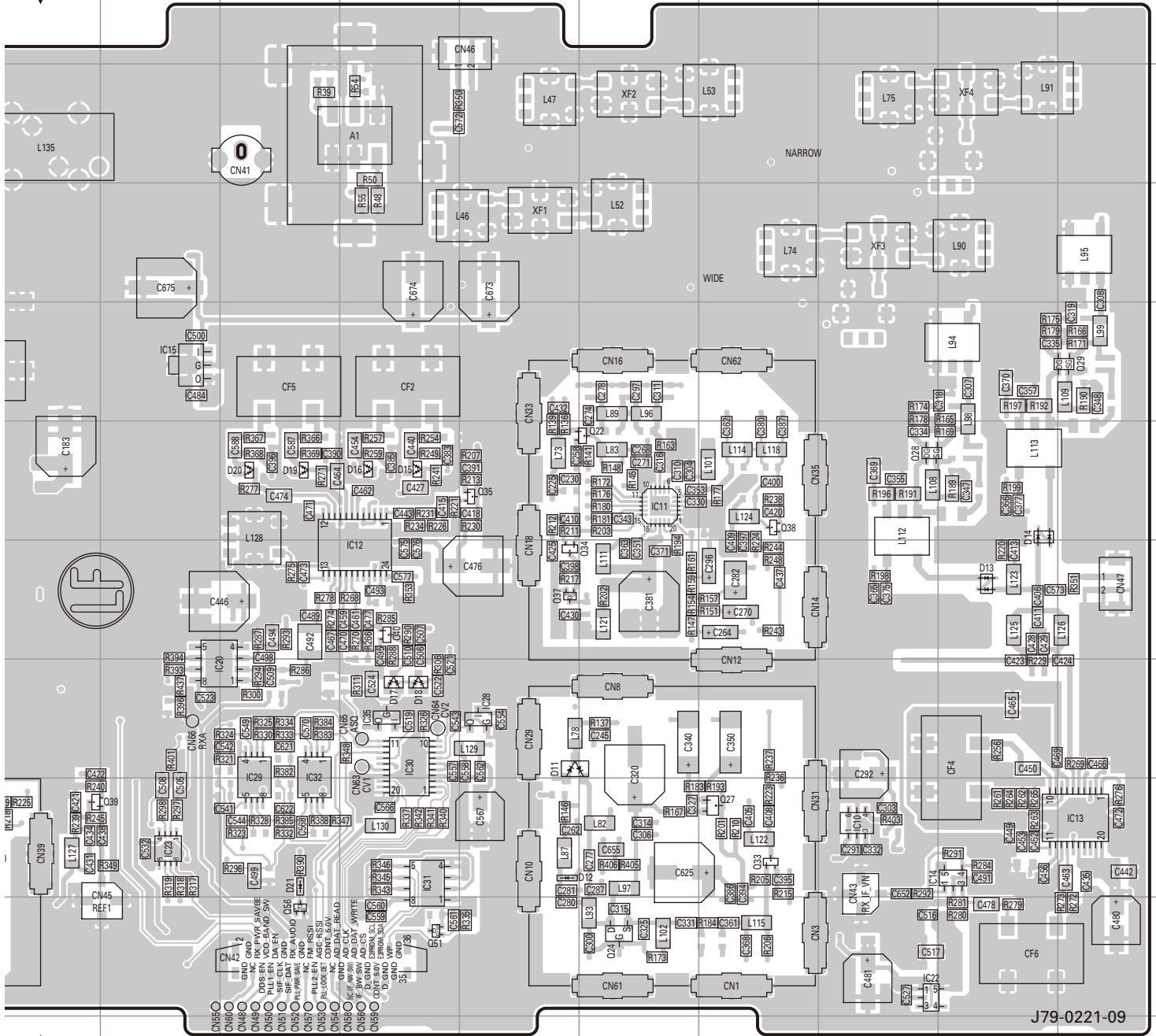
RX UNIT (X55-3102-71): C Component side view (J79-0221-09)



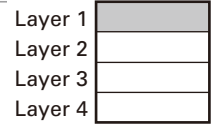
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IC6	6F	IC19	10F	IC31	9M	Q8	8I	Q22	6O	Q37	7N	D6	8G	D19	6L
IC7	9H	IC20	8K	IC32	8L	Q9	5I	Q24	10O	Q38	6P	D11	8N	D20	6L
IC8	10I	IC22	10Q	IC35	8M	Q10	7H	Q27	9P	Q39	9J	D12	9N	D21	9L
IC10	9Q	IC23	9K	Q2	6F	Q11	7H	Q28	6Q	Q40	7M	D13	7R		
IC11	6O	IC24	10A	Q3	9E	Q12	9H	Q29	5S	Q51	10M	D14	6R		
IC12	7M	IC25	9A	Q4	6F	Q13	8F	Q30	9J	Q56	10L	D15	6M		
IC13	9S	IC28	8N	Q5	9E	Q15	8F	Q33	9P	D3	6G	D16	6M		
IC14	9R	IC29	8L	Q6	5H	Q16	6E	Q34	7N	D4	7G	D17	8M		

PC BOARD / PC板 NXR-800H

RX UNIT (X55-3102-71): C
Component side view (J79-0221-09)



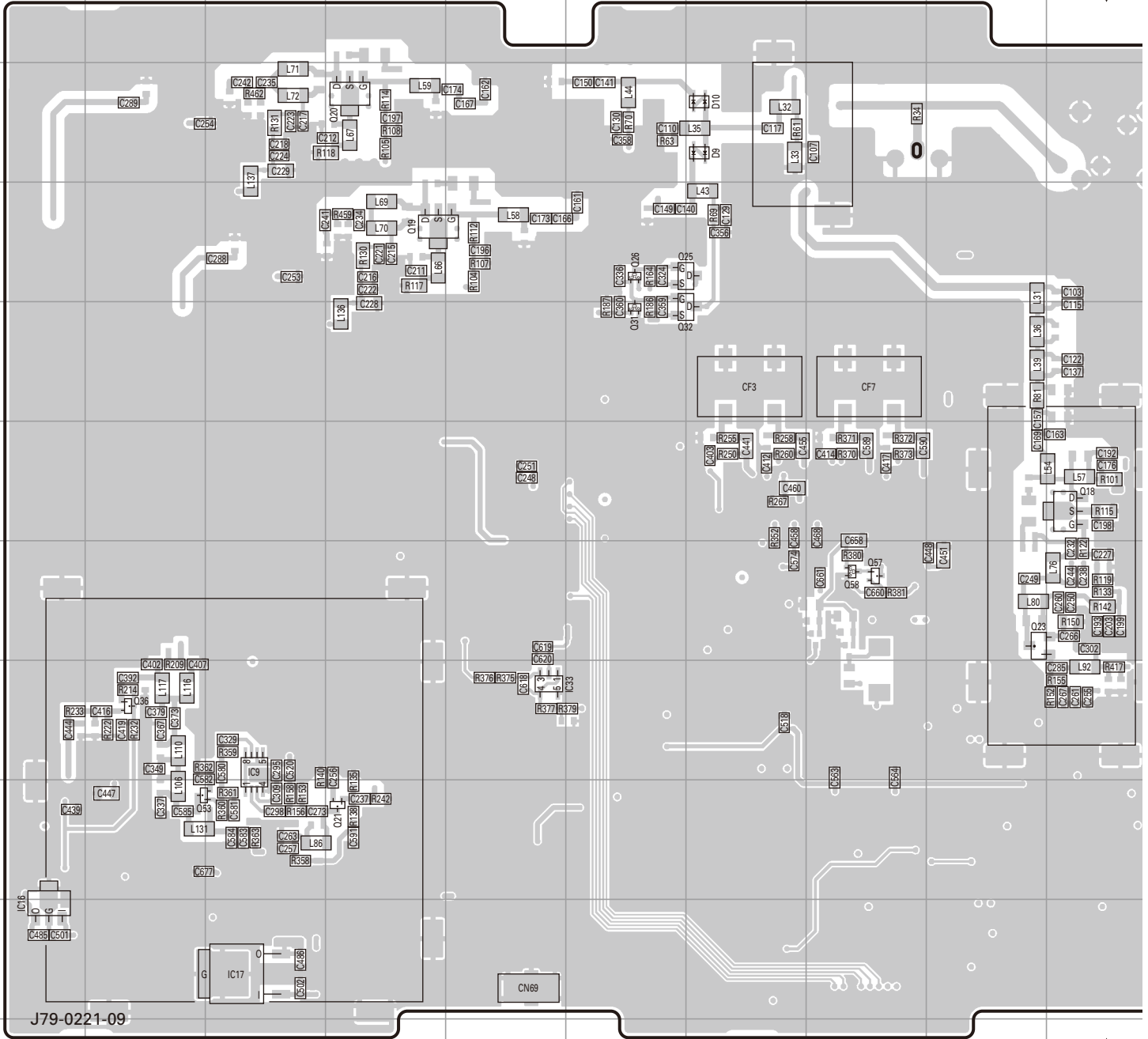
Component side



Foil side

NXR-800H PC BOARD / PC板

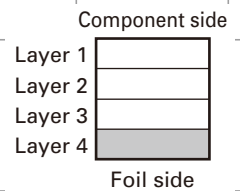
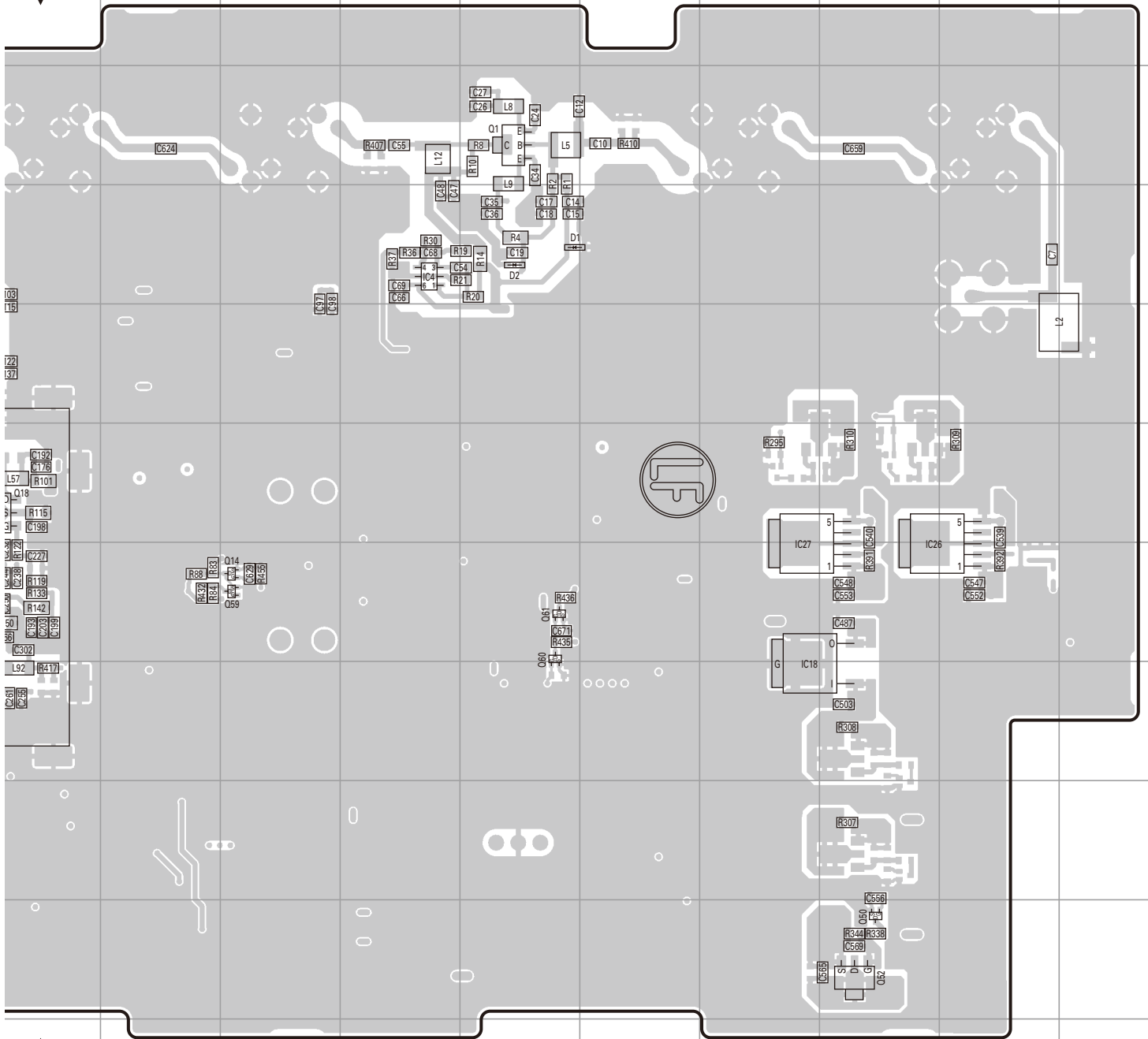
RX UNIT (X55-3102-71): C
Foil side view (J79-0221-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC4	4M	Q14	7L	Q32	5G	Q61	7N
IC9	8C	Q18	6J	Q36	8B	D1	4N
IC16	10A	Q19	4D	Q50	10Q	D2	4N
IC17	10C	Q20	3D	Q52	10Q	D9	3G
IC18	8P	Q21	9D	Q53	9B	D10	3G
IC26	7Q	Q23	7I	Q57	7H		
IC27	7P	Q25	4G	Q58	7H		
IC33	8E	Q26	4F	Q59	7L		
Q1	3N	Q31	5F	Q60	7N		

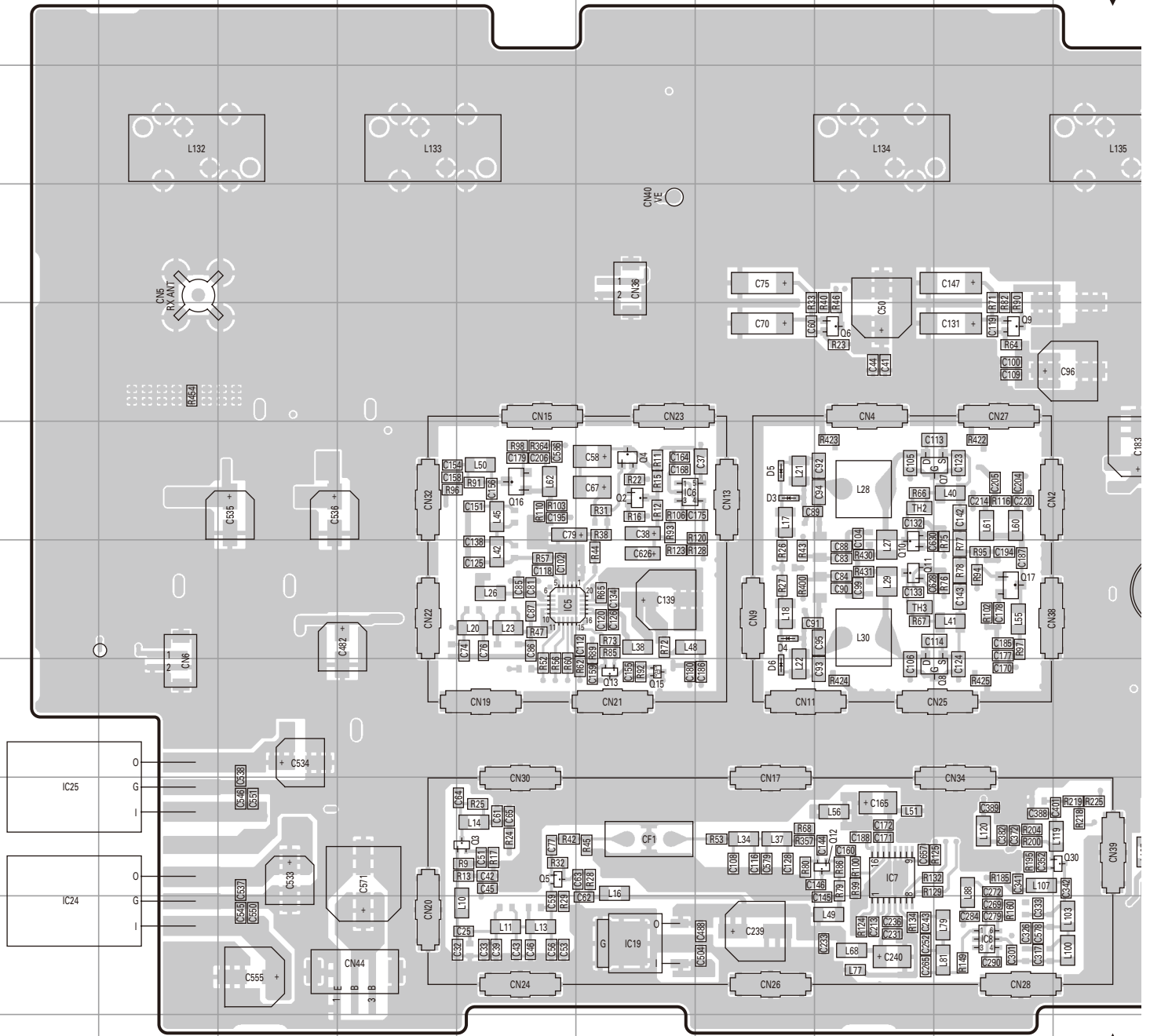
PC BOARD / PC板 NXR-800H

RX UNIT (X55-3102-71): C
Foil side view (J79-0221-09)



NXR-800H PC BOARD / PC板

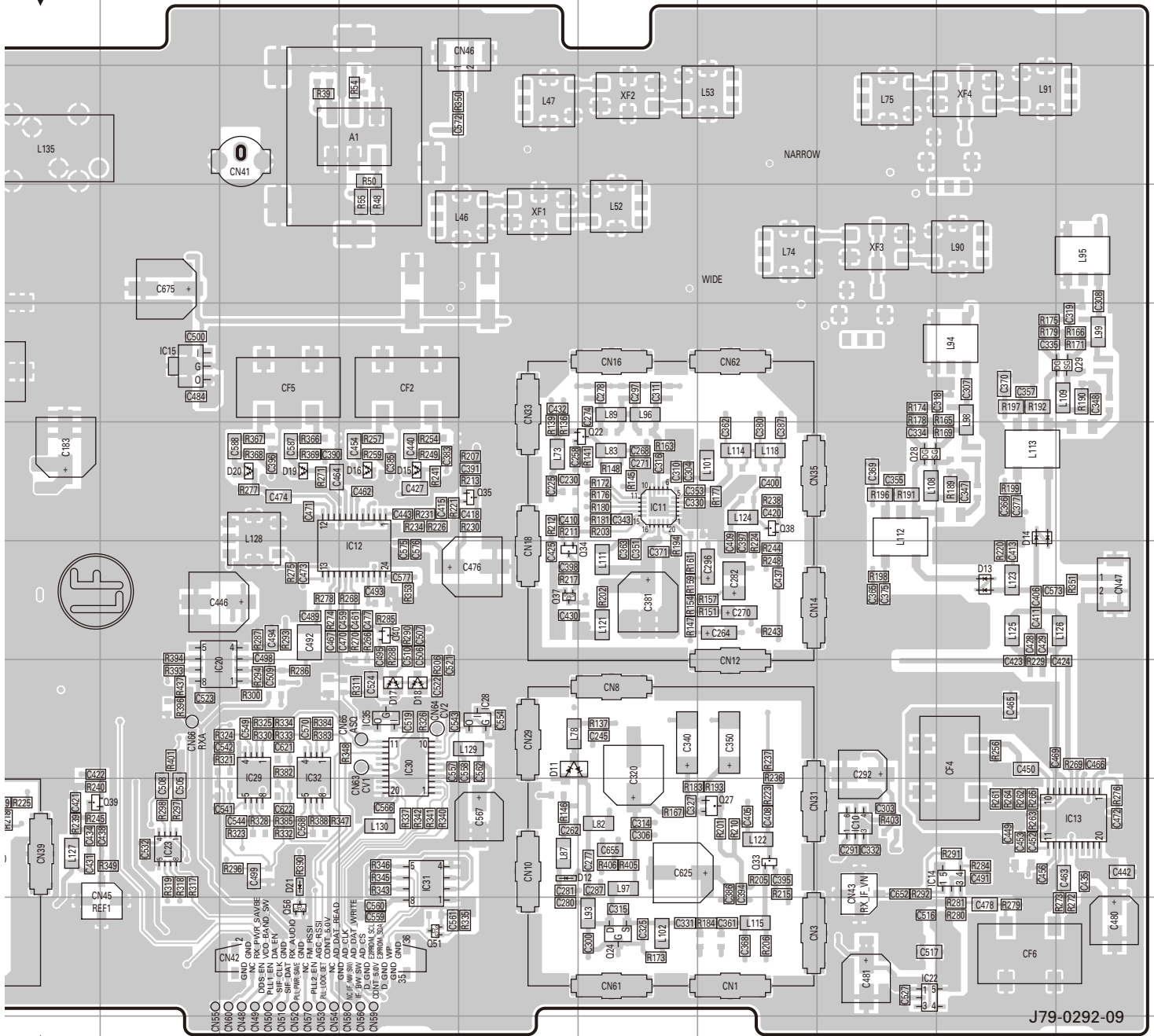
RX UNIT (X55-3102-72): C2
Component side view (J79-0292-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC5	7E	IC15	5K	IC30	8M	Q7	6I	Q17	7I	Q35	6N	D5	6G	D18	8M
IC6	6F	IC19	10F	IC31	9M	Q8	8I	Q22	6O	Q37	7N	D6	8G	D19	6L
IC7	9H	IC20	8K	IC32	8L	Q9	5I	Q24	10O	Q38	6P	D11	8N	D20	6L
IC8	10I	IC22	10Q	IC35	8M	Q10	7H	Q27	9P	Q39	9J	D12	9N	D21	9L
IC10	9Q	IC23	9K	Q2	6F	Q11	7H	Q28	6Q	Q40	7M	D13	7R		
IC11	6O	IC24	10A	Q3	9E	Q12	9H	Q29	5S	Q51	10M	D14	6R		
IC12	7M	IC25	9A	Q4	6F	Q13	8F	Q30	9J	Q56	10L	D15	6M		
IC13	9S	IC28	8N	Q5	9E	Q15	8F	Q33	9P	D3	6G	D16	6M		
IC14	9R	IC29	8L	Q6	5H	Q16	6E	Q34	7N	D4	7G	D17	8M		

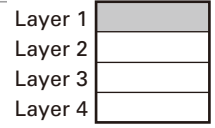
PC BOARD / PC板 NXR-800H

RX UNIT (X55-3102-72): C2
Component side view (J79-0292-09)



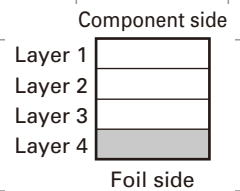
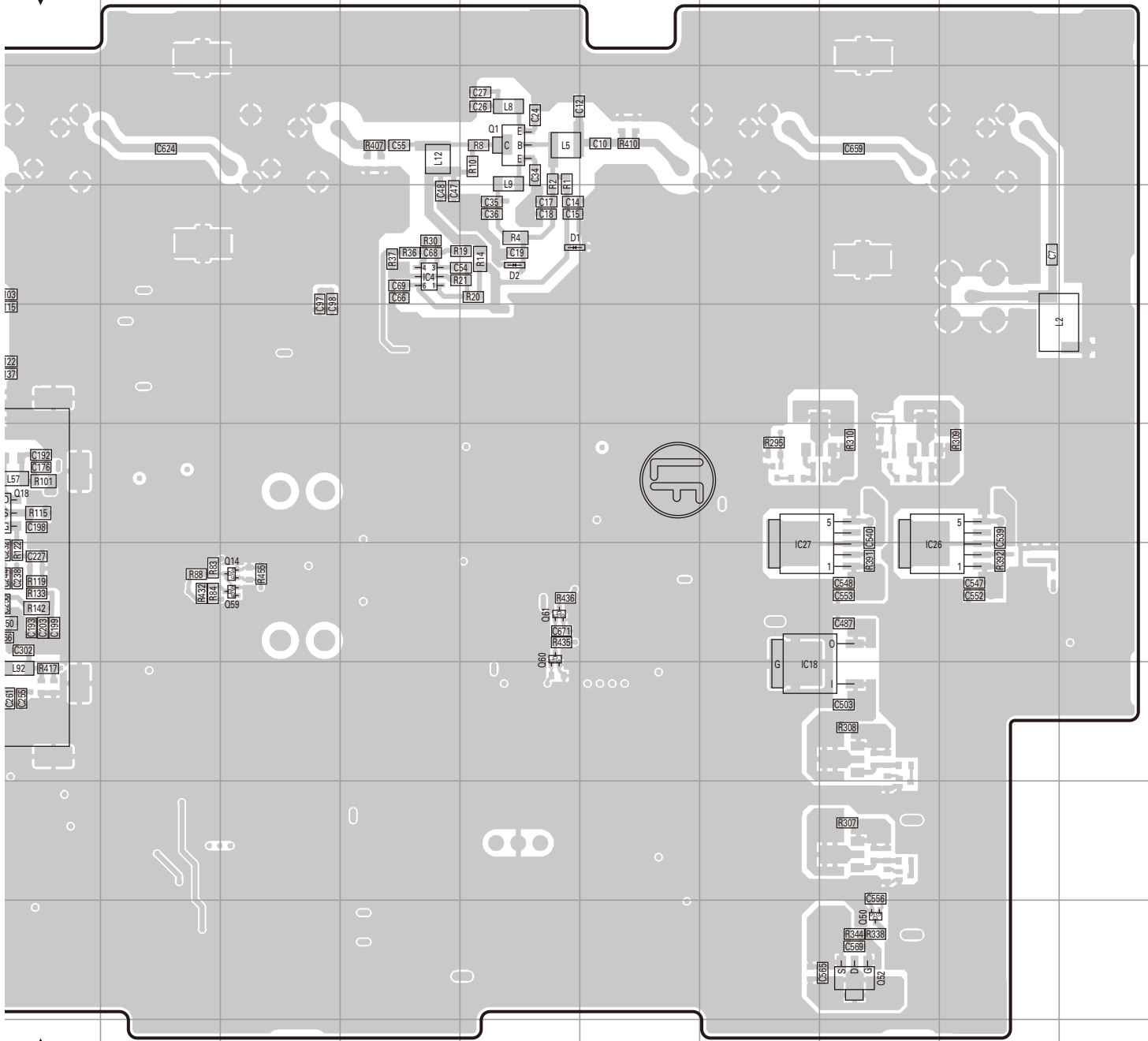
J79-0292-09

Component side



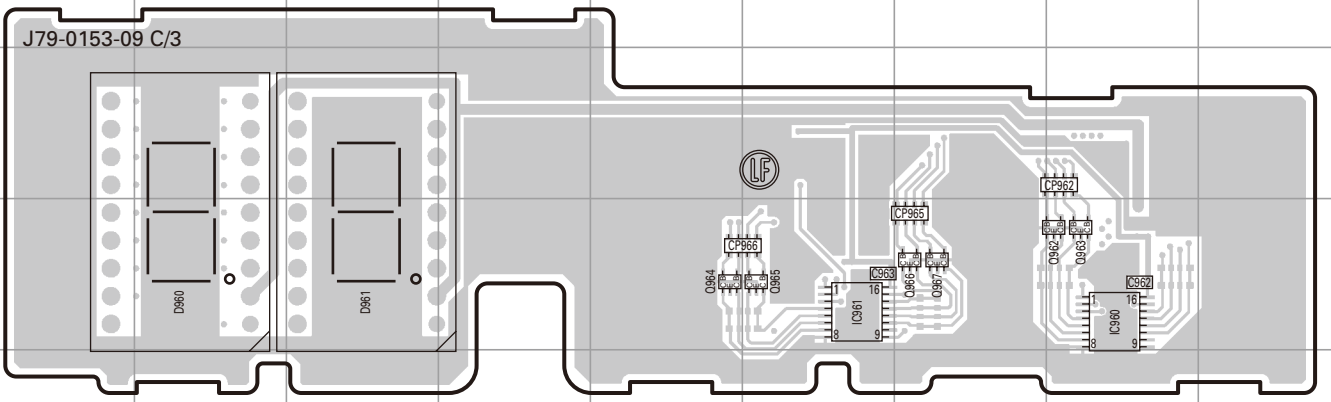
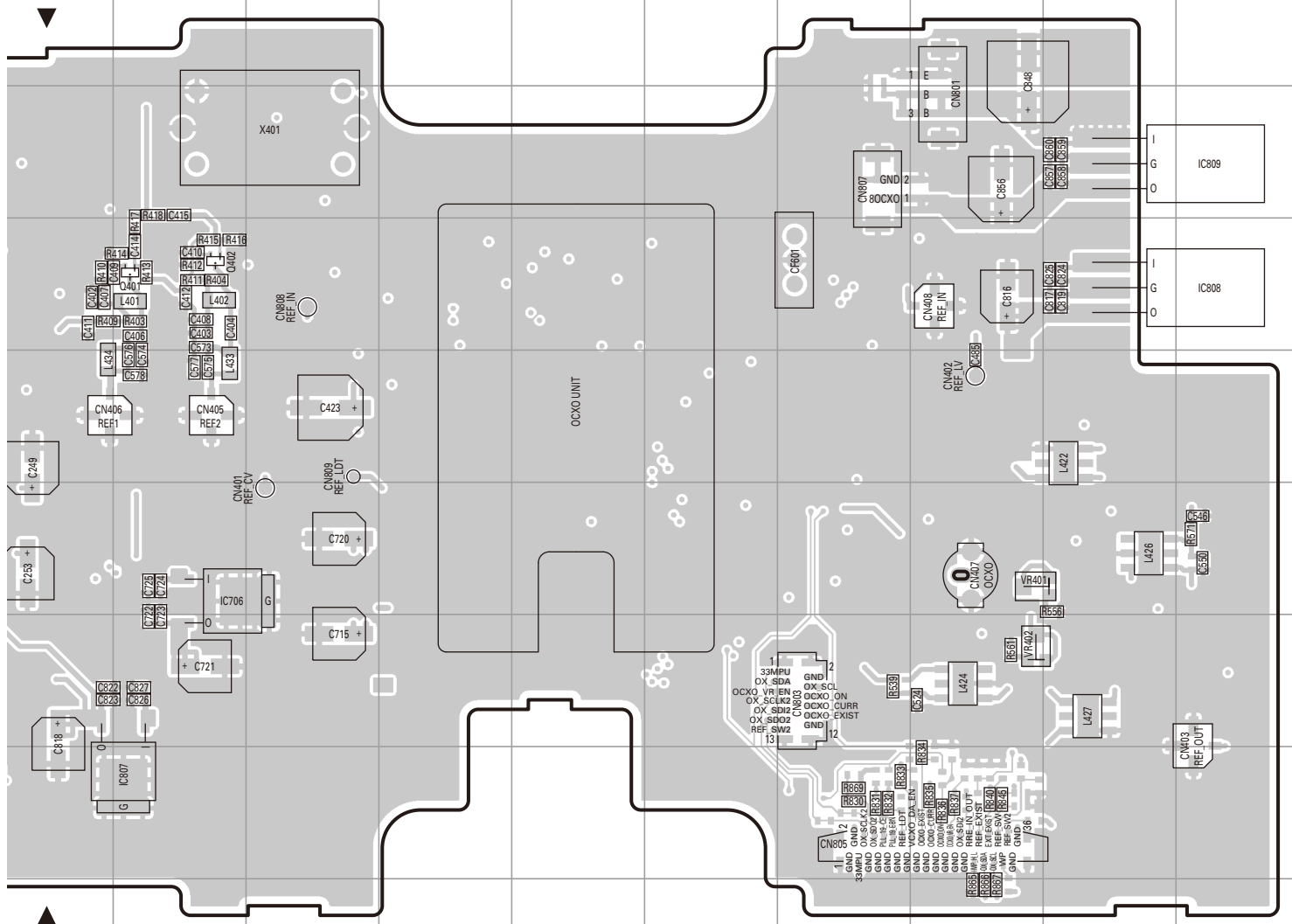
PC BOARD / PC板 NXR-800H

RX UNIT (X55-3102-72): C2
Foil side view (J79-0292-09)

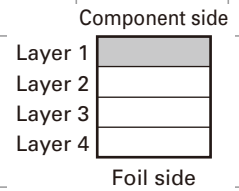


PC BOARD / PC板 NXR-800H

TX UNIT (X56-312X-XX) 0-12: C2 2-71: C
Component side view (J79-0153-09)

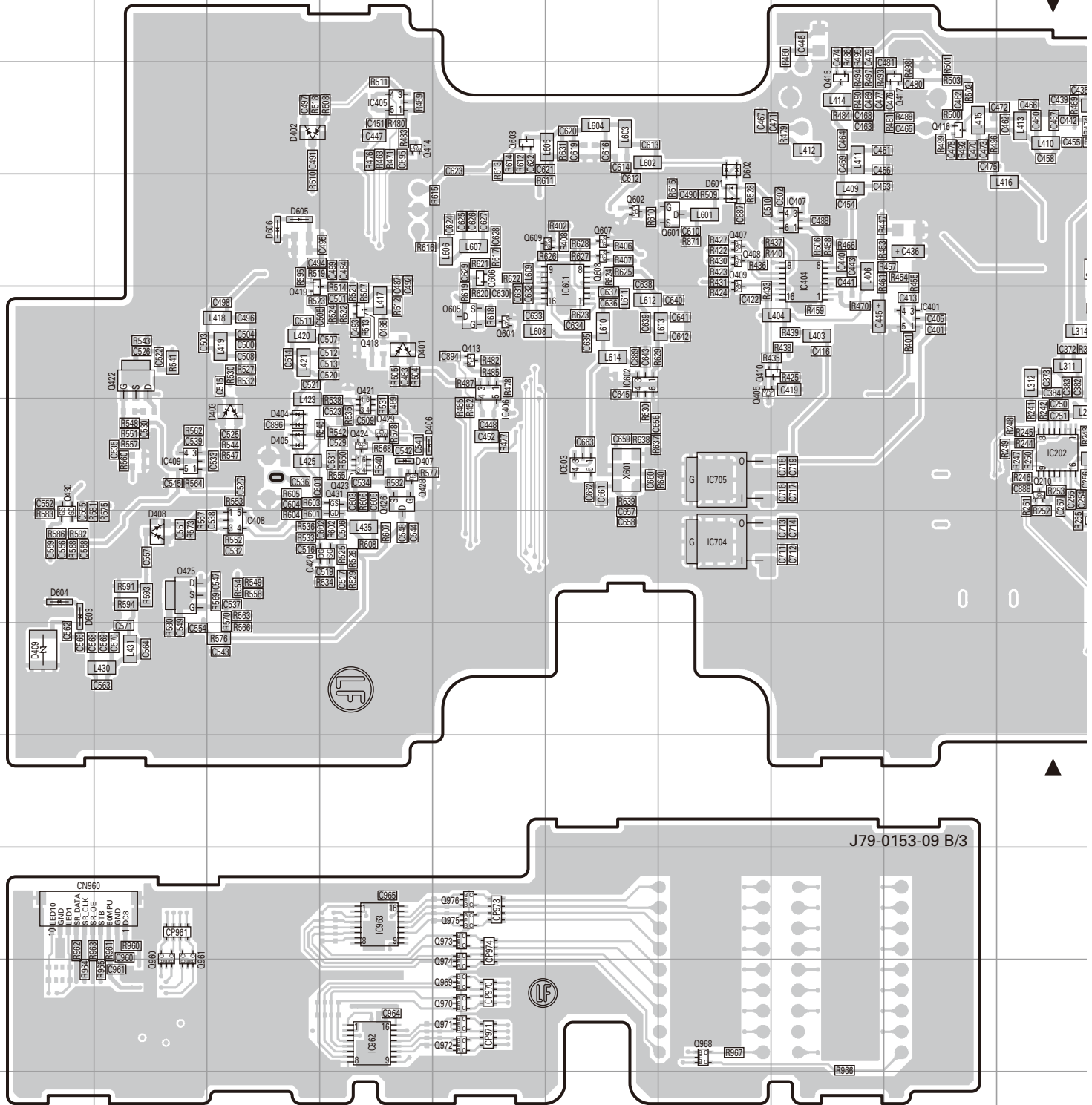


No.	Address
29	10D
30	10D
31	10D
32	10D
60	11L
61	11M



NXR-800H PC BOARD / PC板

TX UNIT (X56-312X-XX) 0-12: C2 2-71: C
Foil side view (J79-0153-09)

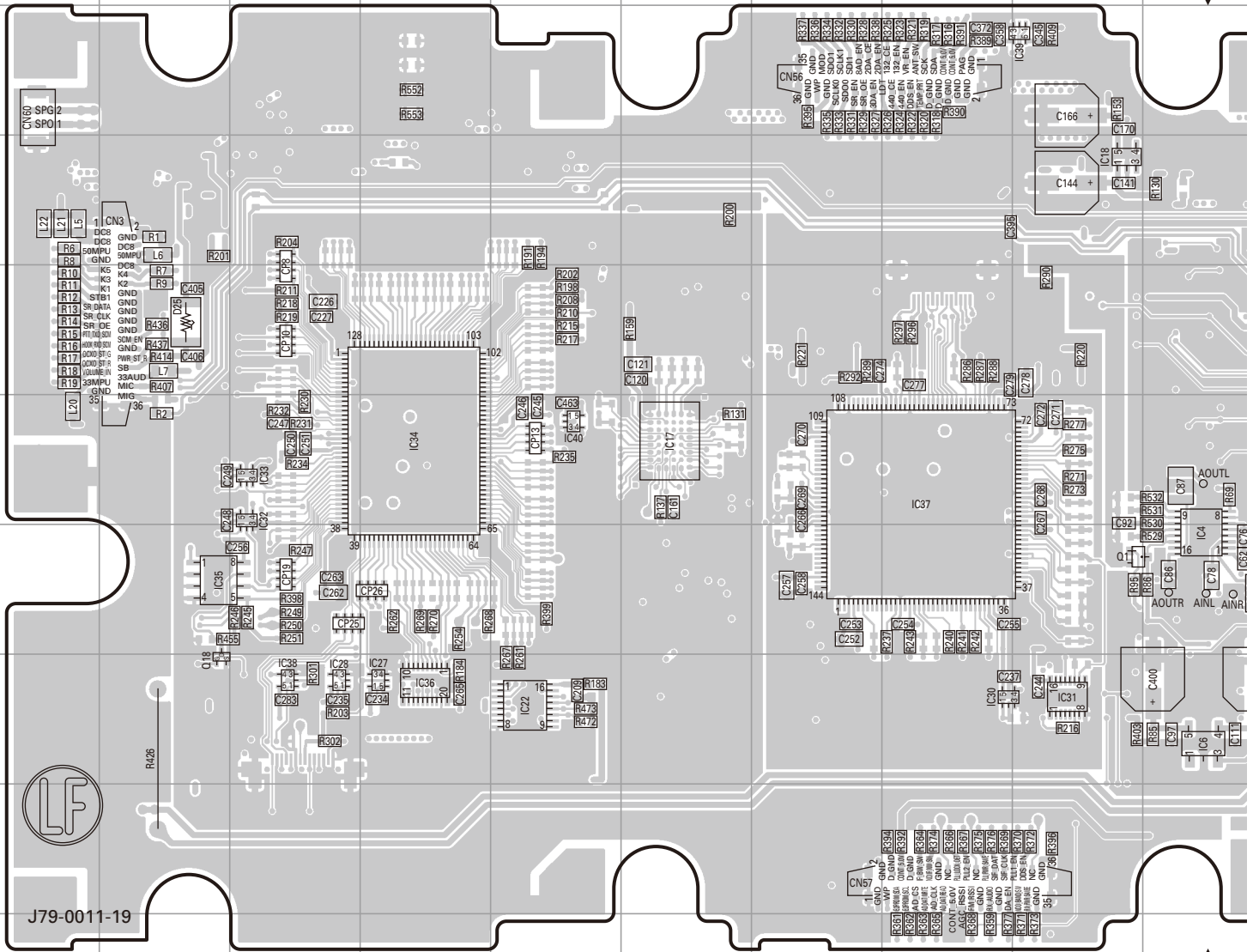


J79-0153-09 B/3

IC102	4O	IC404	4H	IC702	7L	IC926	11L	Q205	8P	Q407	4G	Q417	3I	Q426	6D	Q605	5E
IC104	2Q	IC405	3D	IC704	7G	IC962	11D	Q206	7P	Q408	4G	Q418	5D	Q428	6D	Q606	4E
IC202	6J	IC406	5E	IC705	6G	IC963	10D	Q210	6J	Q409	4G	Q419	5C	Q429	6D	Q607	4F
IC302	4M	IC407	4H	IC920	11O	Q101	4R	Q211	7J	Q410	5H	Q420	7D	Q430	6A	Q608	4F
IC303	4L	IC408	7C	IC921	11O	Q105	3R	Q301	5L	Q412	3J	Q421	6D	Q431	6D	Q609	4F
IC305	5M	IC409	6B	IC922	11O	Q201	6S	Q302	6O	Q413	5E	Q422	5B	Q601	4G	Q701	8L
IC306	4M	IC601	4F	IC923	11N	Q202	7S	Q303	4L	Q414	3D	Q423	6D	Q602	4F	Q702	4R
IC307	5K	IC602	5F	IC924	11Q	Q203	8Q	Q304	4K	Q415	3H	Q424	6D	Q603	3E	Q920	11N
IC401	5I	IC603	6F	IC925	11P	Q204	7P	Q405	5G	Q416	3I	Q425	7B	Q604	5E	Q921	11C

NXR-800H PC BOARD / PC板

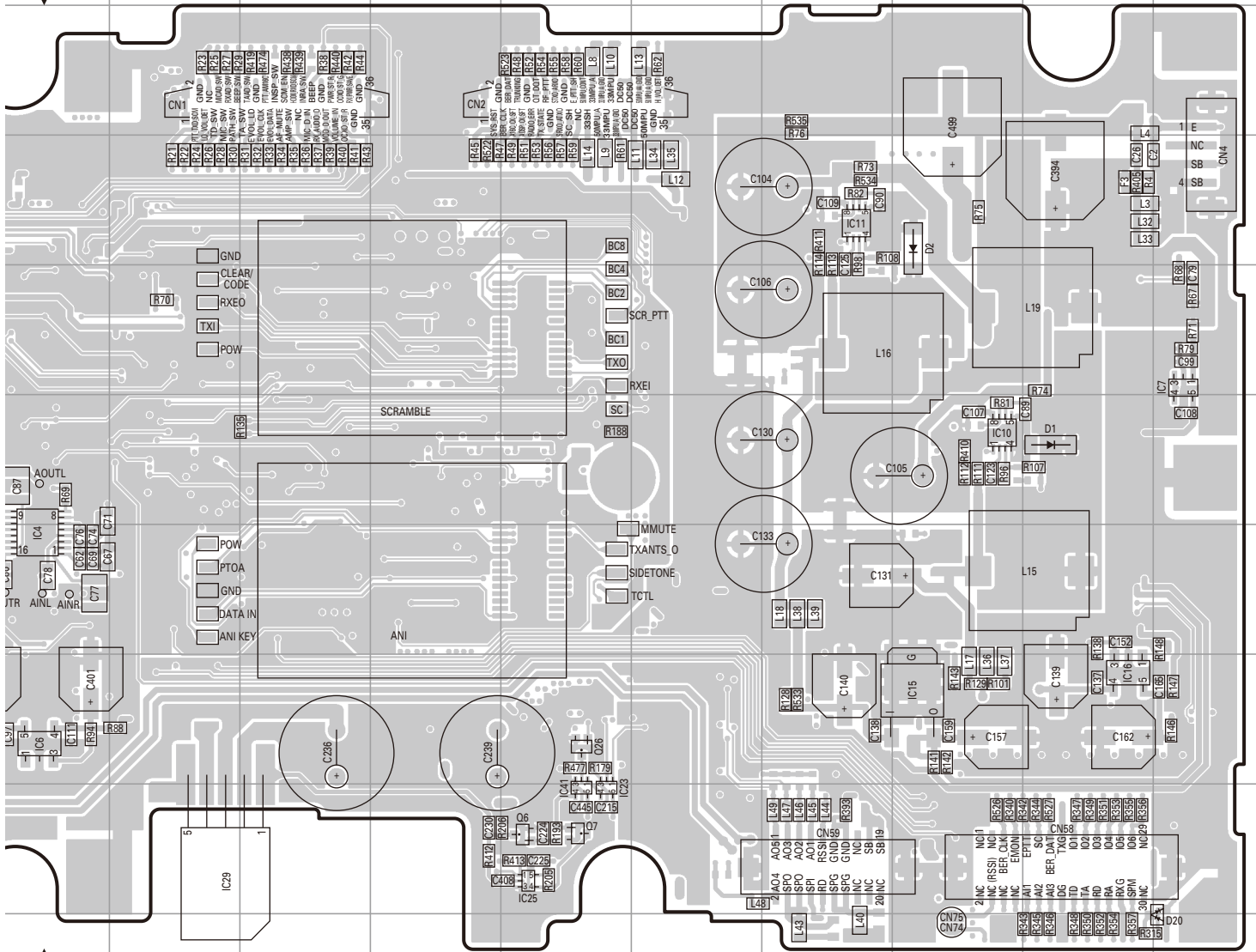
CONTROL UNIT (X53-4132-XX) -71 : C,C2 -72 : For service
Component side view (J79-0011-19)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC4	7J	IC22	8E	IC33	6C	Q1	7I
IC6	8J	IC23	9N	IC34	6D	Q6	9N
IC7	5S	IC25	9N	IC35	7B	Q7	9N
IC10	6Q	IC27	8D	IC36	8D	Q18	8B
IC11	4P	IC28	8C	IC37	6H	Q26	8N
IC15	8Q	IC29	9K	IC38	8C	D1	6R
IC16	8R	IC30	8H	IC39	3I	D2	4Q
IC17	6F	IC31	8I	IC40	6E	D20	10S
IC18	4I	IC32	6C	IC41	9N	D25	5B

PC BOARD / PC板 NXR-800H

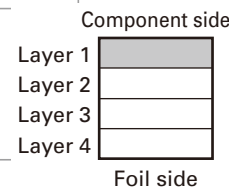
**CONTROL UNIT (X53-4132-XX) -71 : C,C2 -72 : For service
Component side view (J79-0011-19)**



- GND
- CLEAR CODE
- RXEO
- TXI
- POW

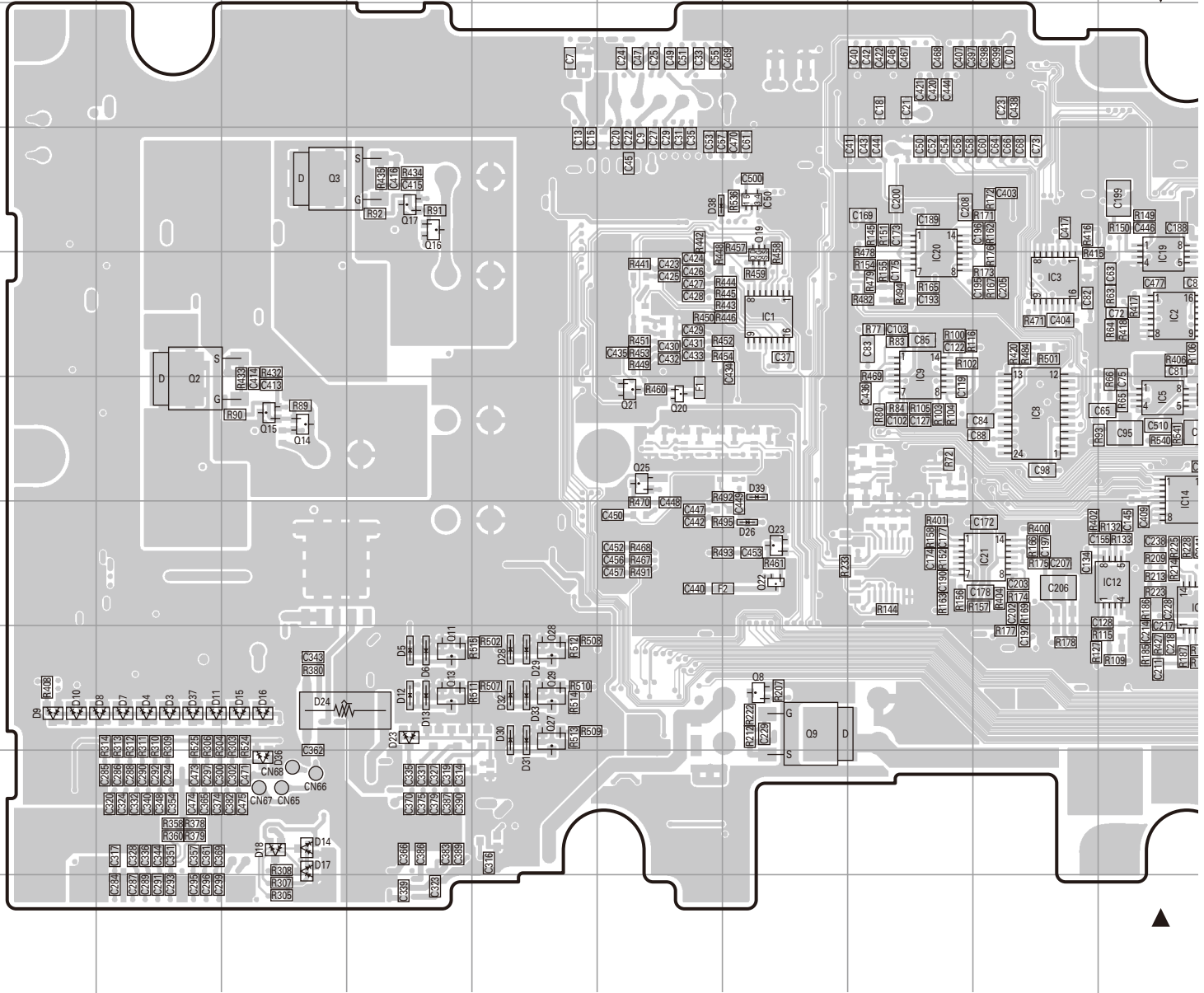
- POW
- PTOA
- GND
- DATA IN
- ANI KEY

- MMUTE
- TXANTS.O
- SIDETONE
- TC TL



NXR-800H PC BOARD / PC板

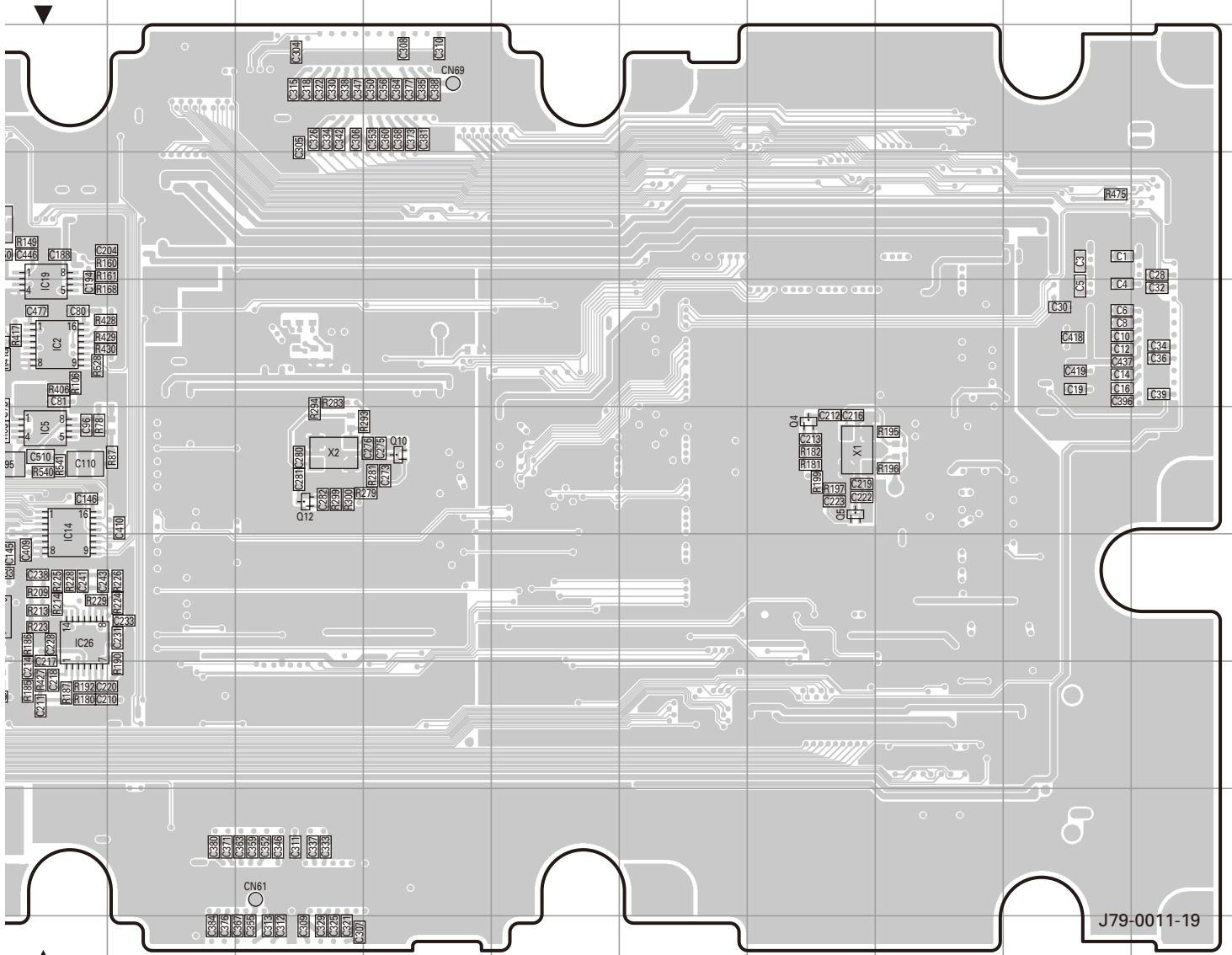
CONTROL UNIT (X53-4132-XX) -71 : C,C2 -72 : For service
Foil side view (J79-0011-19)



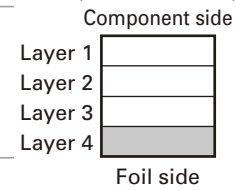
Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	5G	Q2	6B	Q17	4D	D6	8D	D23	8D
IC2	5J	Q3	4C	Q19	5G	D7	8B	D24	8C
IC3	5I	Q4	6P	Q20	6F	D8	8B	D26	7G
IC5	6J	Q5	6P	Q21	6F	D9	8A	D28	8E
IC8	6I	Q8	8G	Q22	7G	D10	8A	D29	8E
IC9	5H	Q9	8G	Q23	7G	D11	8B	D30	8E
IC12	7J	Q10	6M	Q25	6F	D12	8D	D31	8E
IC14	6J	Q11	8D	Q27	8E	D13	8D	D32	8E
IC19	5J	Q12	6L	Q28	8E	D14	9C	D33	8E
IC20	5H	Q13	8D	Q29	8E	D15	8C	D36	9C
IC21	7I	Q14	6C	D3	8B	D16	8C	D37	8B
IC26	7J	Q15	6C	D4	8B	D17	9C	D38	4F
IC50	4G	Q16	4D	D5	8D	D18	9C	D39	6G

PC BOARD / PC板 NXR-800H

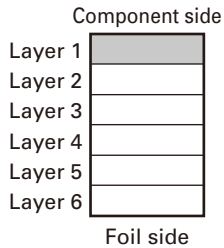
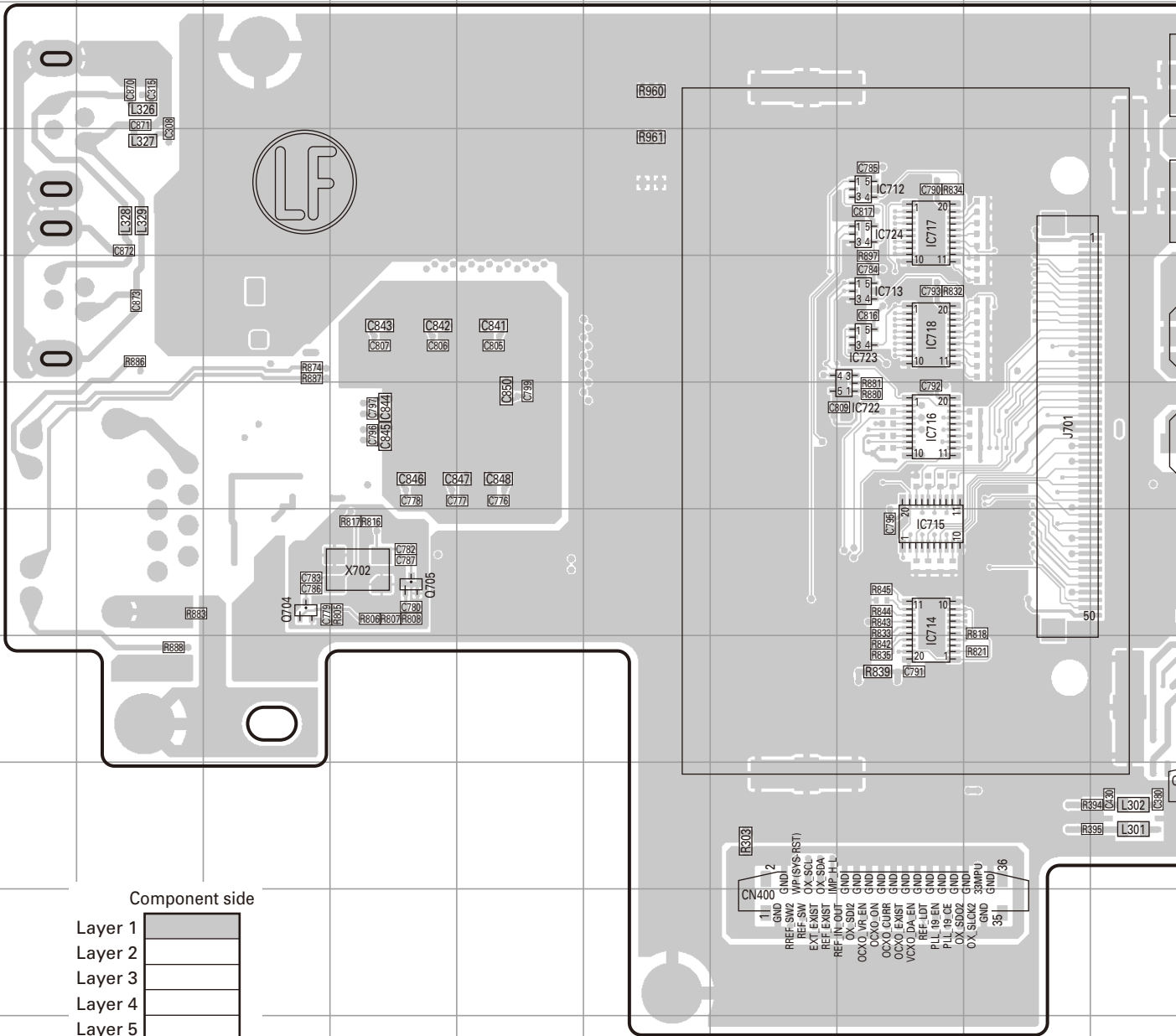
**CONTROL UNIT (X53-4132-XX) -71 : C,C2 -72 : For service
Foil side view (J79-0011-19)**

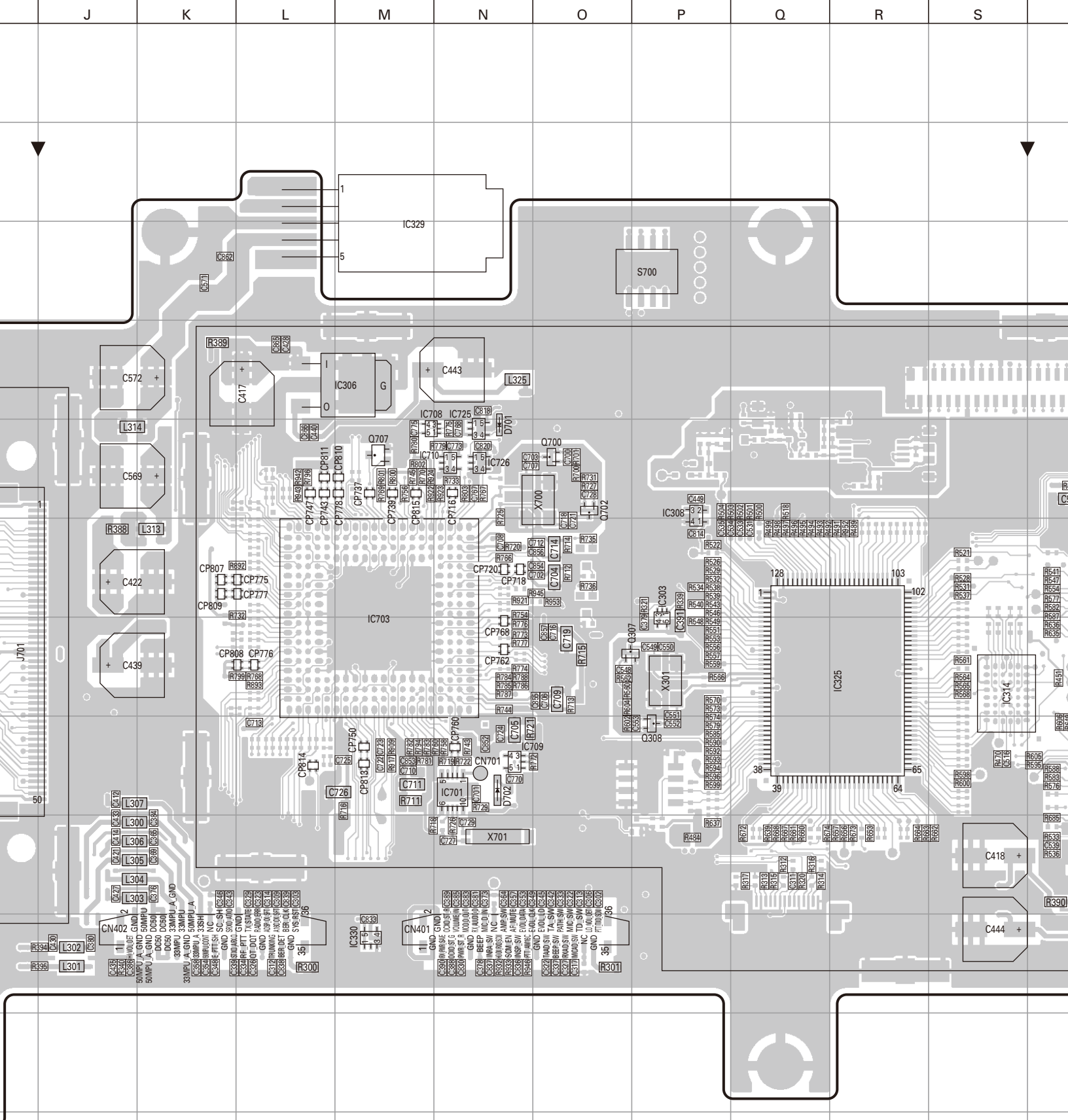


J79-0011-19



**CONTROL UNIT (X53-4140-XX) -10 : C,C2 -11 : For service
Component side view (J79-0012-09)**



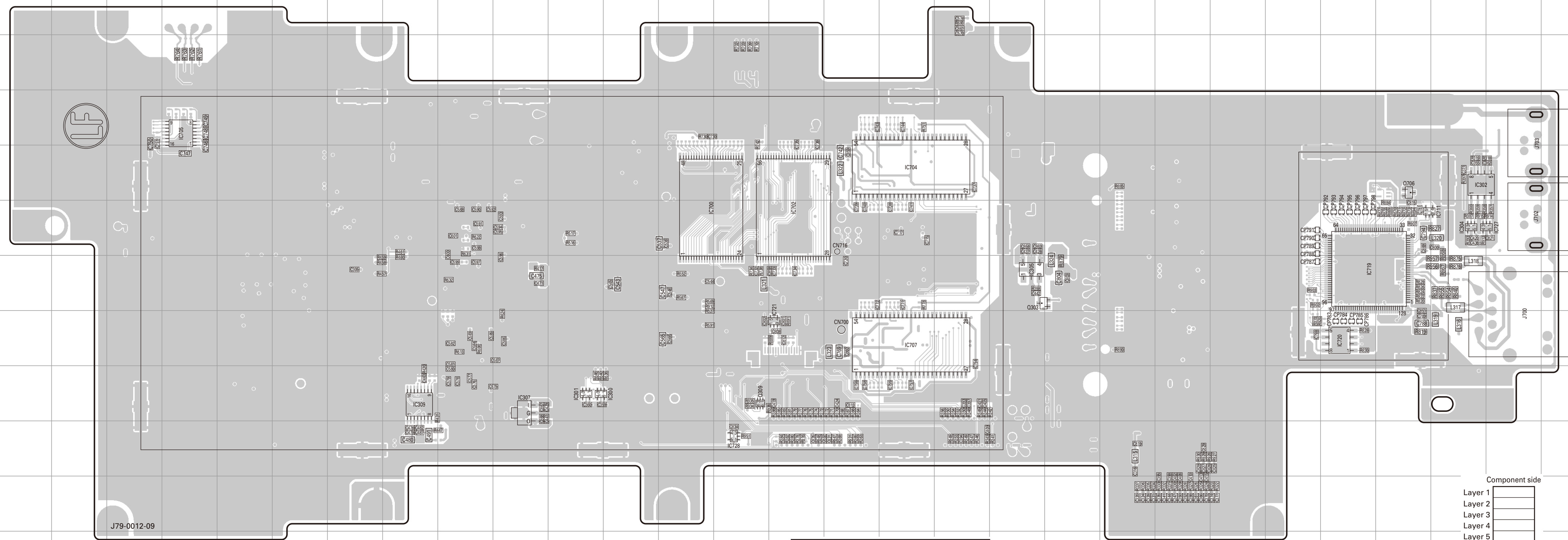


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC303	7P	IC318	7X	IC327	7V	IC710	5N	IC718	6H	Q301	6AA	Q702	5O
IC306	4M	IC319	7X	IC329	3M	IC712	5H	IC722	7H	Q302	6AA	Q704	8C
IC308	5P	IC320	7X	IC330	10M	IC713	6H	IC723	6H	Q304	9V	Q705	8D
IC312	5U	IC321	7Y	IC701	8N	IC714	8H	IC724	5H	Q305	8V	Q707	5M
IC313	8V	IC322	6U	IC703	7M	IC715	8H	IC725	5N	Q307	7O	D300	6AA
IC314	7S	IC324	8U	IC708	5M	IC716	7H	IC726	5N	Q308	8P	D701	5N
IC315	8X	IC325	7R	IC709	8N	IC717	5H	Q300	9Y	Q700	5O	D702	8N

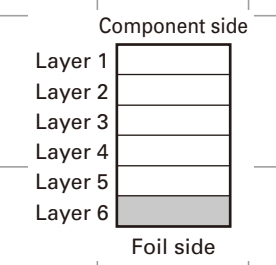
NXR-800H PC BOARD / PC板

CONTROL UNIT (X53-4140-XX) -10 : C,C2 -11 : For service
Foil side view (J79-0012-09)

CONTROL UNIT (X53-4140-XX) -10 : C,C2 -11 : For service
Foil side view (J79-0012-09)

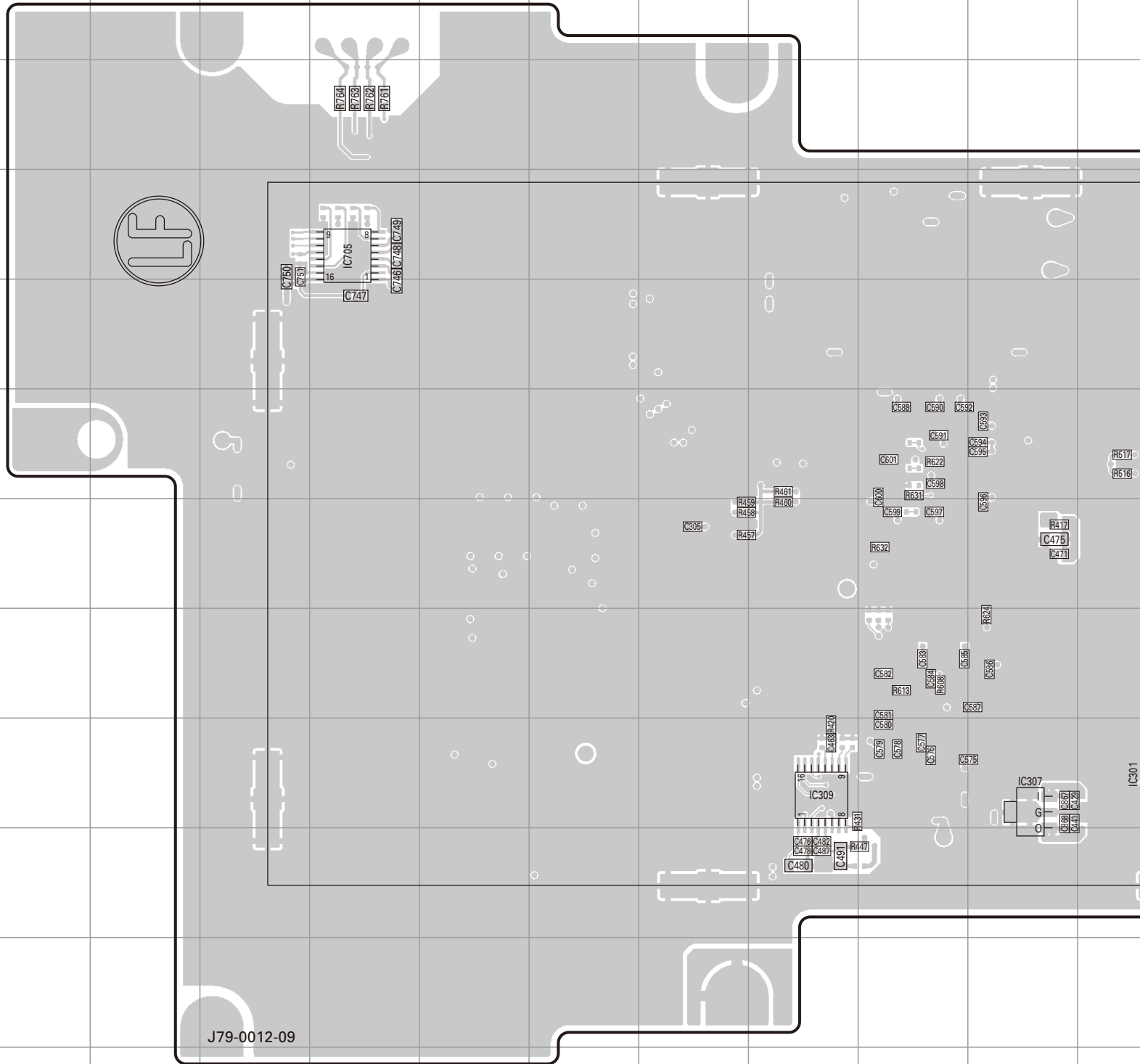


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC300	9K	IC700	6M	IC720	8Y
IC301	9K	IC702	6O	IC721	8O
IC302	5AA	IC704	5Q	IC727	6AB
IC304	6AA	IC705	4D	IC728	10N
IC305	7S	IC707	8Q	Q303	7S
IC307	9J	IC711	6Z	Q309	9N
IC309	9H	IC719	7Y	Q706	5Z

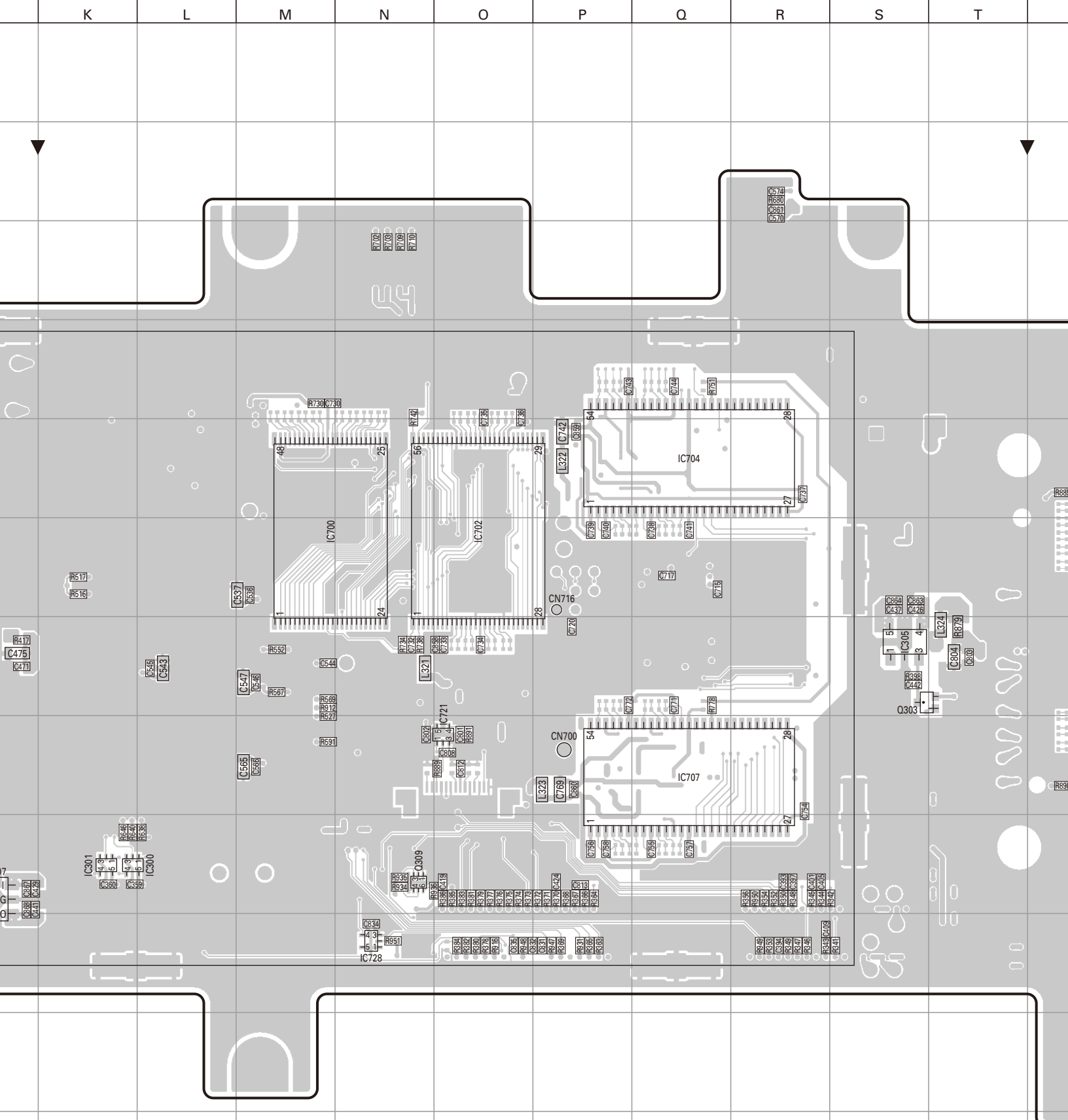


NXR-800H PC BOARD / PC板

CONTROL UNIT (X53-4140-XX) -10 : C,C2 -11 : For service
Foil side view (J79-0012-09)

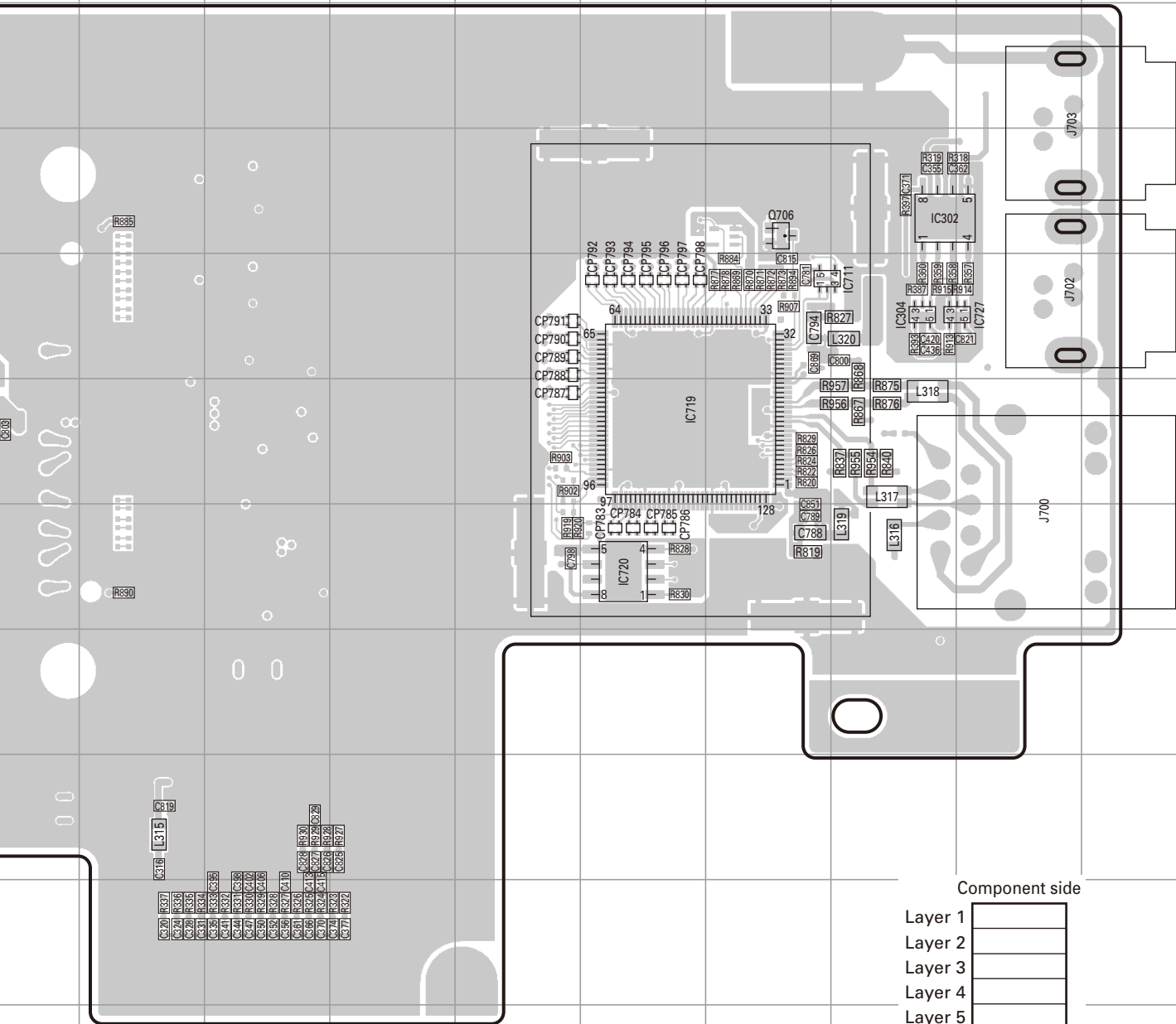


J79-0012-09

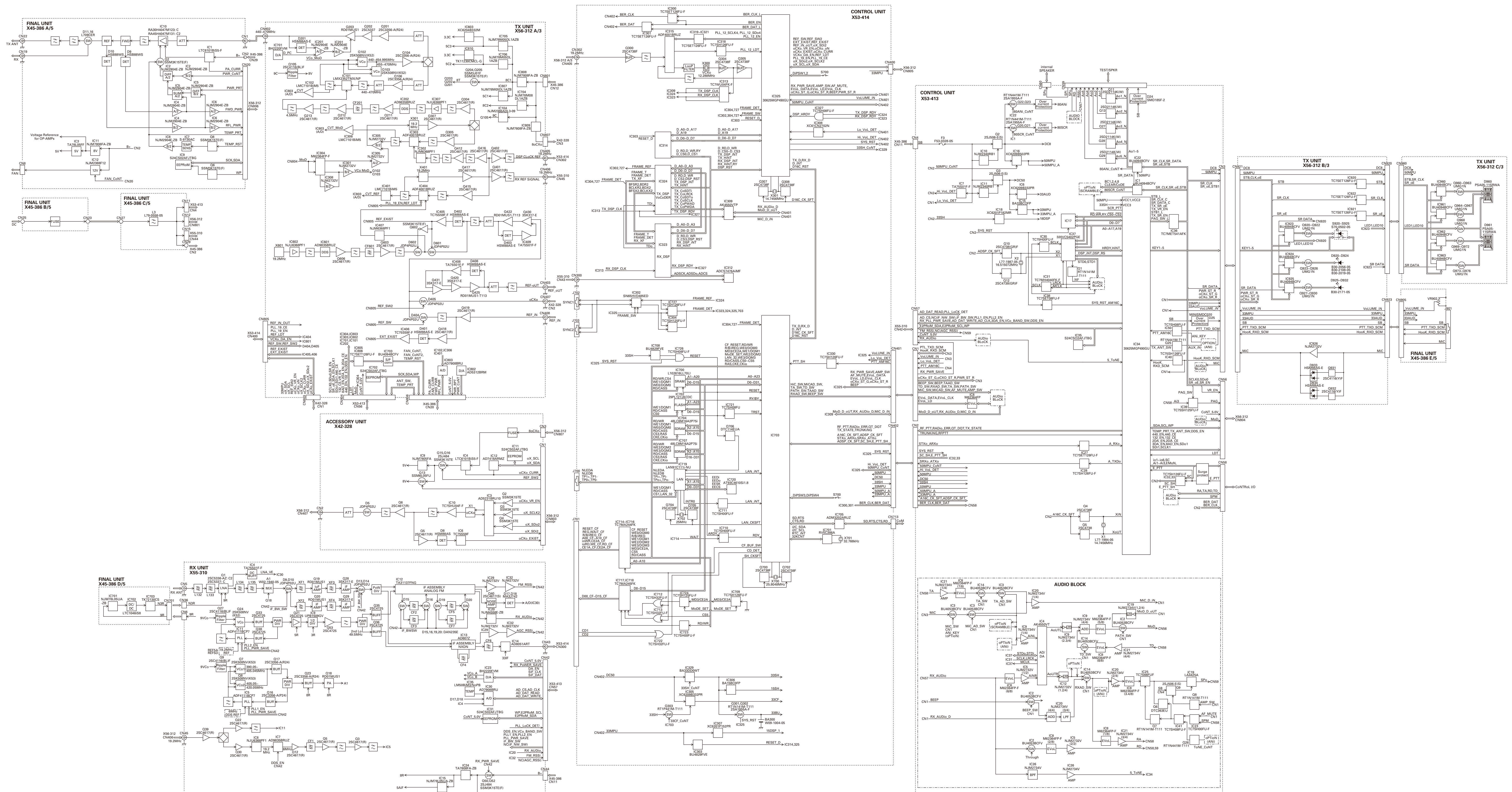


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC300	9K	IC700	6M	IC720	8Y
IC301	9K	IC702	6O	IC721	8O
IC302	5AA	IC704	5Q	IC727	6AB
IC304	6AA	IC705	4D	IC728	10N
IC305	7S	IC707	8Q	Q303	7S
IC307	9J	IC711	6Z	Q309	9N
IC309	9H	IC719	7Y	Q706	5Z

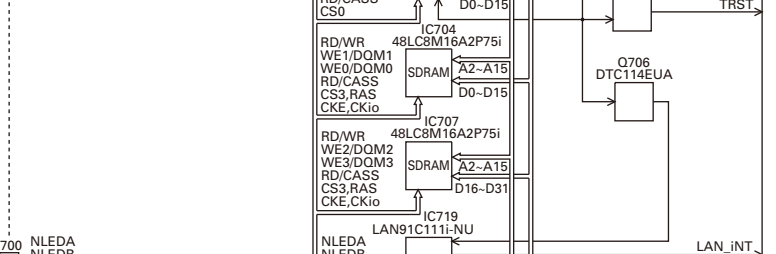
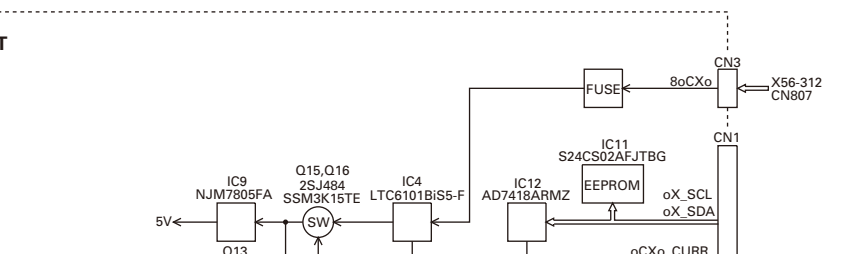
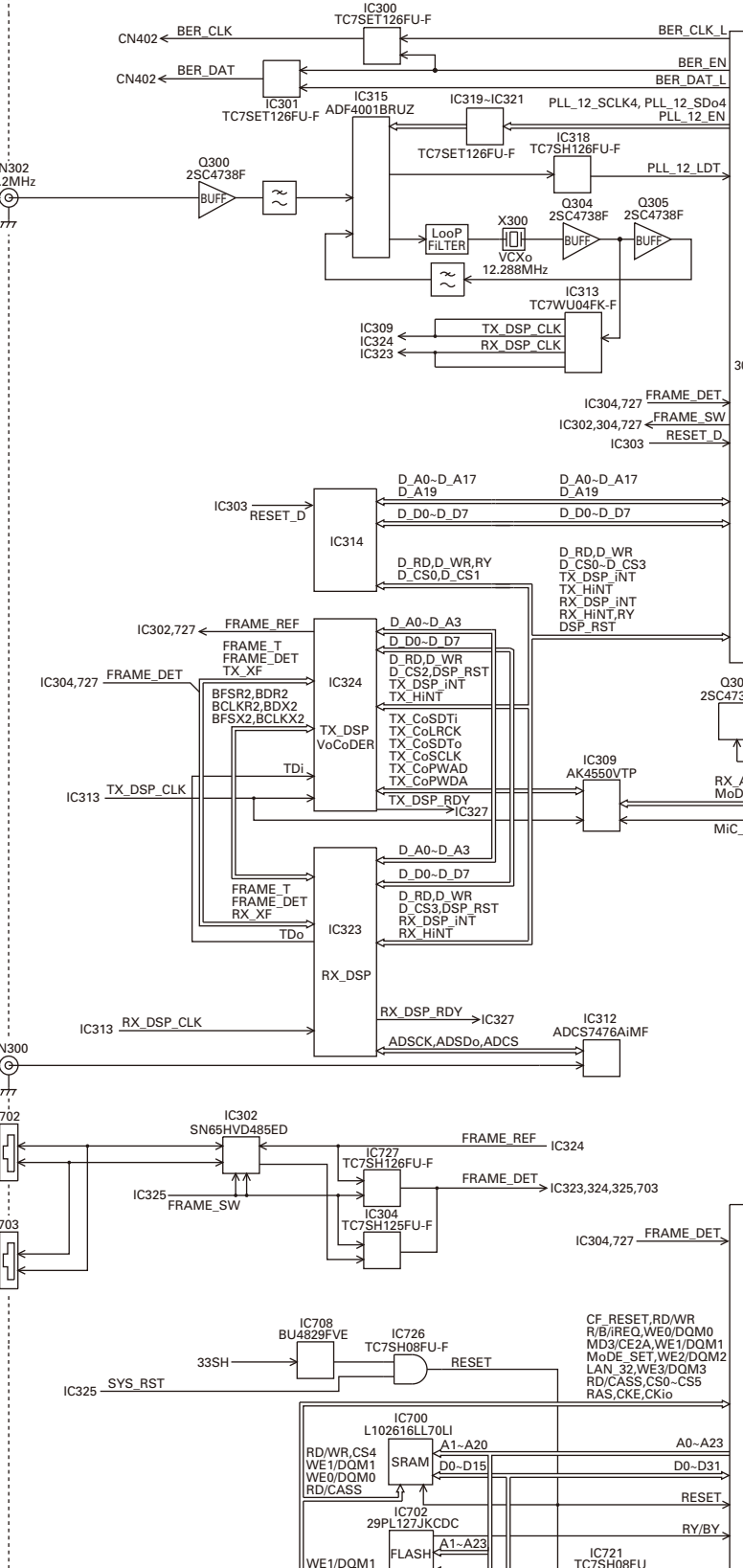
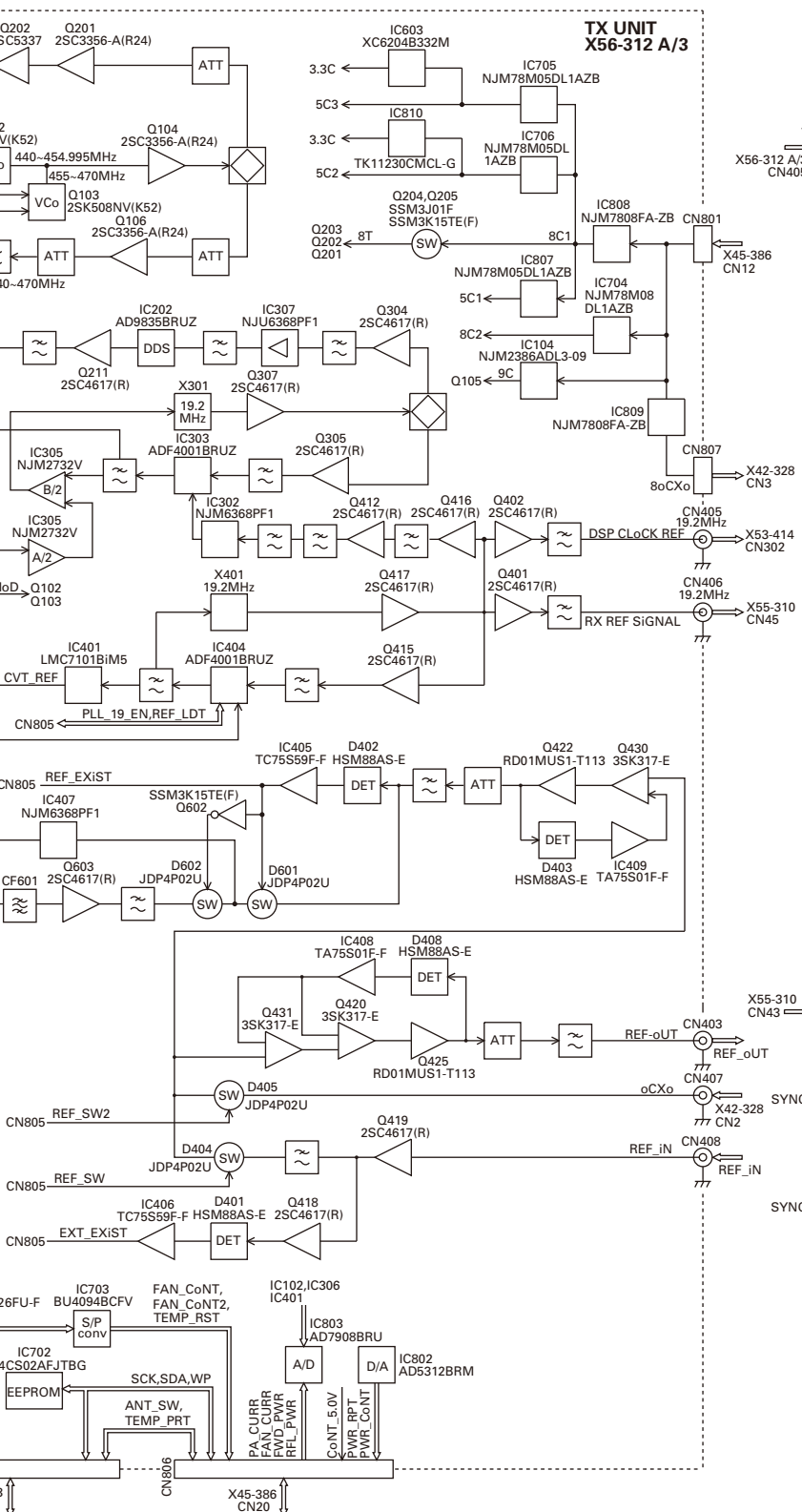
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Foil side view (J79-0012-09)

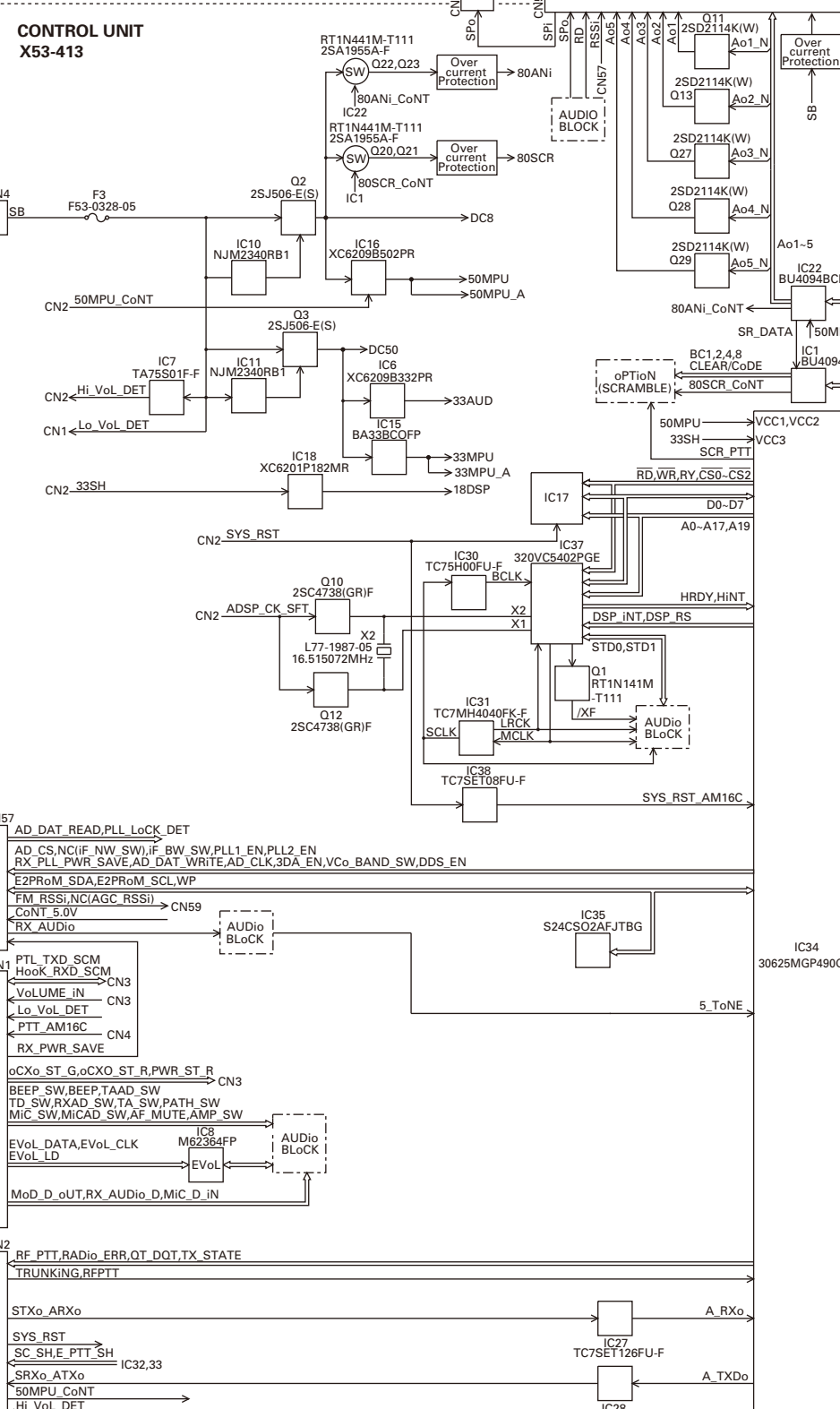
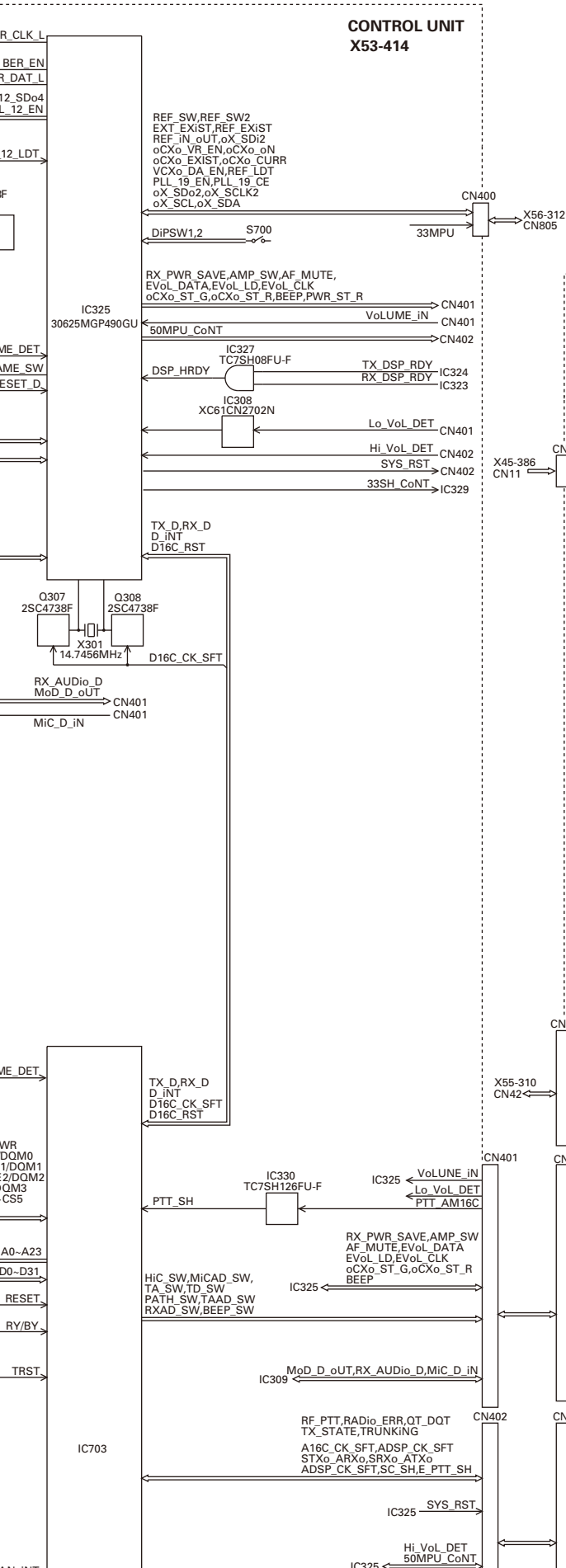


- Component side
- Layer 1
 - Layer 2
 - Layer 3
 - Layer 4
 - Layer 5
 - Layer 6
- Foil side

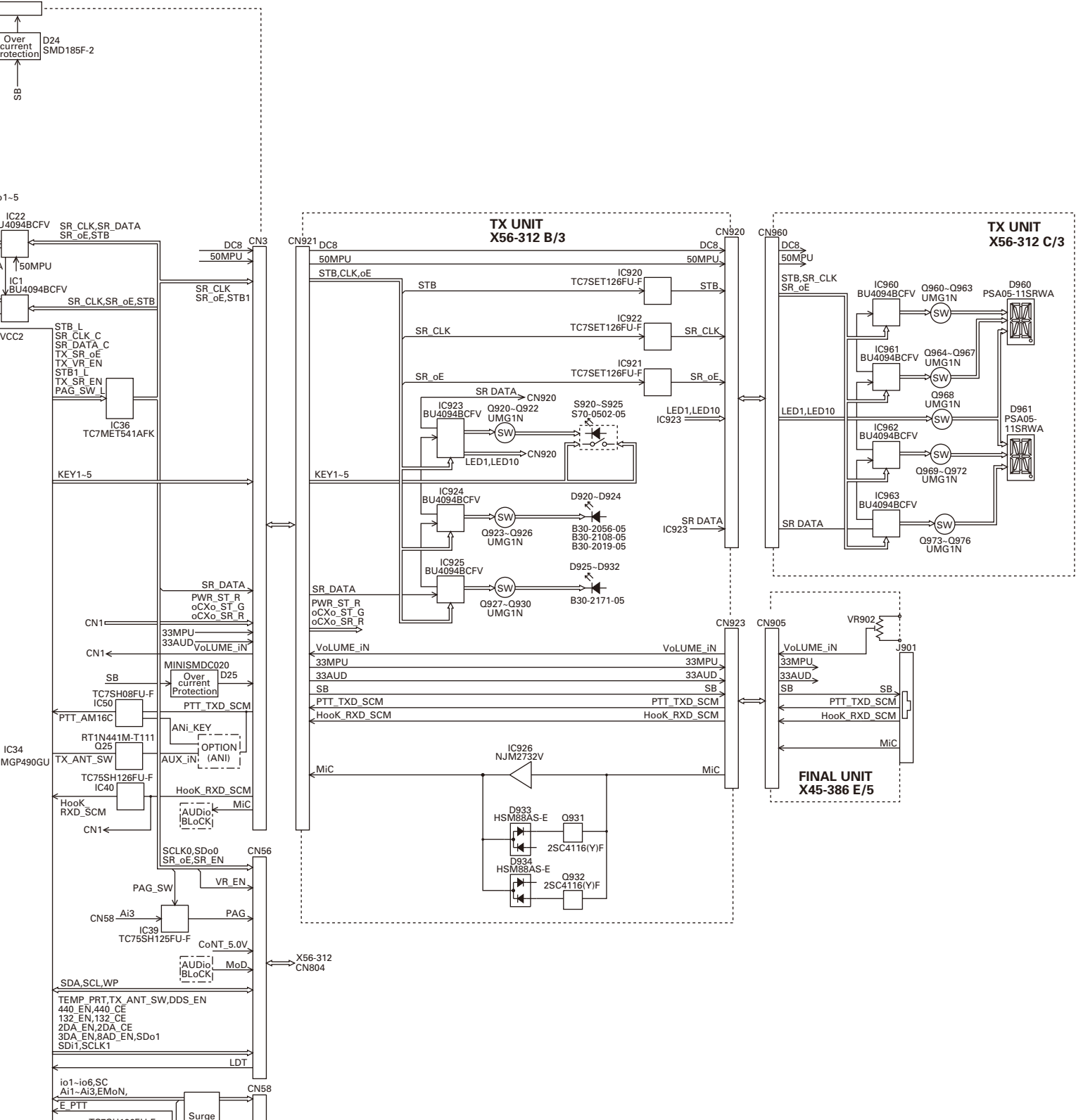


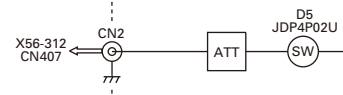
- 394 IC700 IC705 IC710 IC715 IC720 IC725 IC730 IC735 IC740 IC745 IC750 IC755 IC760 IC765 IC770 IC775 IC780 IC785 IC790 IC795 IC800 IC805 IC810 IC815 IC820 IC825 IC830 IC835 IC840 IC845 IC850 IC855 IC860 IC865 IC870 IC875 IC880 IC885 IC890 IC895 IC900 IC905 IC910 IC915 IC920 IC925 IC930 IC935 IC940 IC945 IC950 IC955 IC960 IC965 IC970 IC975 IC980 IC985 IC990 IC995
- 395 IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13 IC14 IC15 IC16 IC17 IC18 IC19 IC20 IC21 IC22 IC23 IC24 IC25 IC26 IC27 IC28 IC29 IC30 IC31 IC32 IC33 IC34 IC35 IC36 IC37 IC38 IC39 IC40 IC41 IC42 IC43 IC44 IC45 IC46 IC47 IC48 IC49 IC50 IC51 IC52 IC53 IC54 IC55 IC56 IC57 IC58 IC59 IC60 IC61 IC62 IC63 IC64 IC65 IC66 IC67 IC68 IC69 IC70 IC71 IC72 IC73 IC74 IC75 IC76 IC77 IC78 IC79 IC80 IC81 IC82 IC83 IC84 IC85 IC86 IC87 IC88 IC89 IC90 IC91 IC92 IC93 IC94 IC95 IC96 IC97 IC98 IC99 IC100
- 396 IC101 IC102 IC103 IC104 IC105 IC106 IC107 IC108 IC109 IC110 IC111 IC112 IC113 IC114 IC115 IC116 IC117 IC118 IC119 IC120 IC121 IC122 IC123 IC124 IC125 IC126 IC127 IC128 IC129 IC130 IC131 IC132 IC133 IC134 IC135 IC136 IC137 IC138 IC139 IC140 IC141 IC142 IC143 IC144 IC145 IC146 IC147 IC148 IC149 IC150 IC151 IC152 IC153 IC154 IC155 IC156 IC157 IC158 IC159 IC160 IC161 IC162 IC163 IC164 IC165 IC166 IC167 IC168 IC169 IC170 IC171 IC172 IC173 IC174 IC175 IC176 IC177 IC178 IC179 IC180 IC181 IC182 IC183 IC184 IC185 IC186 IC187 IC188 IC189 IC190 IC191 IC192 IC193 IC194 IC195 IC196 IC197 IC198 IC199 IC200
- 397 IC201 IC202 IC203 IC204 IC205 IC206 IC207 IC208 IC209 IC210 IC211 IC212 IC213 IC214 IC215 IC216 IC217 IC218 IC219 IC220 IC221 IC222 IC223 IC224 IC225 IC226 IC227 IC228 IC229 IC230 IC231 IC232 IC233 IC234 IC235 IC236 IC237 IC238 IC239 IC240 IC241 IC242 IC243 IC244 IC245 IC246 IC247 IC248 IC249 IC250 IC251 IC252 IC253 IC254 IC255 IC256 IC257 IC258 IC259 IC260 IC261 IC262 IC263 IC264 IC265 IC266 IC267 IC268 IC269 IC270 IC271 IC272 IC273 IC274 IC275 IC276 IC277 IC278 IC279 IC280 IC281 IC282 IC283 IC284 IC285 IC286 IC287 IC288 IC289 IC290 IC291 IC292 IC293 IC294 IC295 IC296 IC297 IC298 IC299 IC300
- 398 IC301 IC302 IC303 IC304 IC305 IC306 IC307 IC308 IC309 IC310 IC311 IC312 IC313 IC314 IC315 IC316 IC317 IC318 IC319 IC320 IC321 IC322 IC323 IC324 IC325 IC326 IC327 IC328 IC329 IC330 IC331 IC332 IC333 IC334 IC335 IC336 IC337 IC338 IC339 IC340 IC341 IC342 IC343 IC344 IC345 IC346 IC347 IC348 IC349 IC350 IC351 IC352 IC353 IC354 IC355 IC356 IC357 IC358 IC359 IC360 IC361 IC362 IC363 IC364 IC365 IC366 IC367 IC368 IC369 IC370 IC371 IC372 IC373 IC374 IC375 IC376 IC377 IC378 IC379 IC380 IC381 IC382 IC383 IC384 IC385 IC386 IC387 IC388 IC389 IC390 IC391 IC392 IC393 IC394 IC395 IC396 IC397 IC398 IC399 IC400
- 399 IC401 IC402 IC403 IC404 IC405 IC406 IC407 IC408 IC409 IC410 IC411 IC412 IC413 IC414 IC415 IC416 IC417 IC418 IC419 IC420 IC421 IC422 IC423 IC424 IC425 IC426 IC427 IC428 IC429 IC430 IC431 IC432 IC433 IC434 IC435 IC436 IC437 IC438 IC439 IC440 IC441 IC442 IC443 IC444 IC445 IC446 IC447 IC448 IC449 IC450 IC451 IC452 IC453 IC454 IC455 IC456 IC457 IC458 IC459 IC460 IC461 IC462 IC463 IC464 IC465 IC466 IC467 IC468 IC469 IC470 IC471 IC472 IC473 IC474 IC475 IC476 IC477 IC478 IC479 IC480 IC481 IC482 IC483 IC484 IC485 IC486 IC487 IC488 IC489 IC490 IC491 IC492 IC493 IC494 IC495 IC496 IC497 IC498 IC499 IC500
- 400 IC501 IC502 IC503 IC504 IC505 IC506 IC507 IC508 IC509 IC510 IC511 IC512 IC513 IC514 IC515 IC516 IC517 IC518 IC519 IC520 IC521 IC522 IC523 IC524 IC525 IC526 IC527 IC528 IC529 IC530 IC531 IC532 IC533 IC534 IC535 IC536 IC537 IC538 IC539 IC540 IC541 IC542 IC543 IC544 IC545 IC546 IC547 IC548 IC549 IC550 IC551 IC552 IC553 IC554 IC555 IC556 IC557 IC558 IC559 IC560 IC561 IC562 IC563 IC564 IC565 IC566 IC567 IC568 IC569 IC570 IC571 IC572 IC573 IC574 IC575 IC576 IC577 IC578 IC579 IC580 IC581 IC582 IC583 IC584 IC585 IC586 IC587 IC588 IC589 IC590 IC591 IC592 IC593 IC594 IC595 IC596 IC597 IC598 IC599 IC600



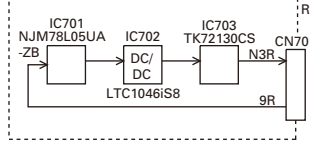


BLOCK DIAGRAM / 方块图 NXR-800H

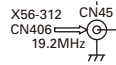
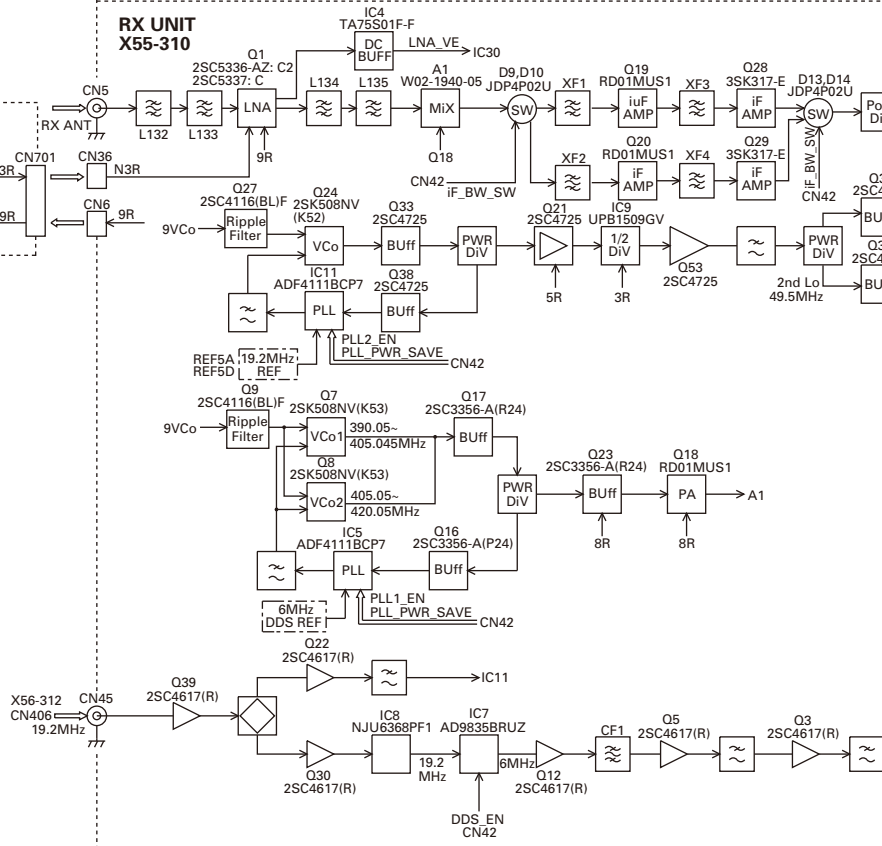


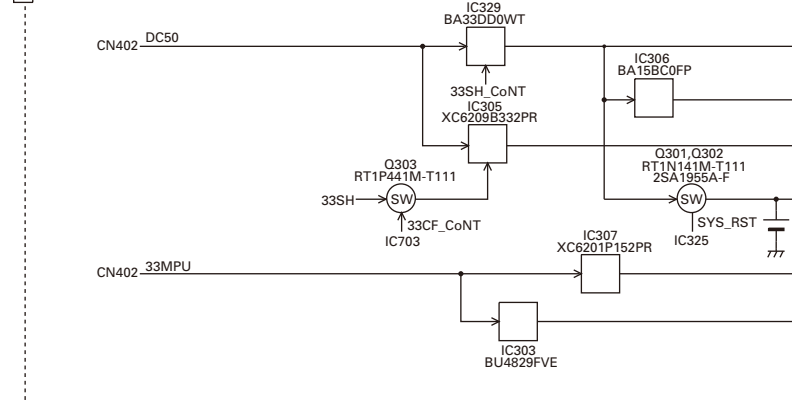
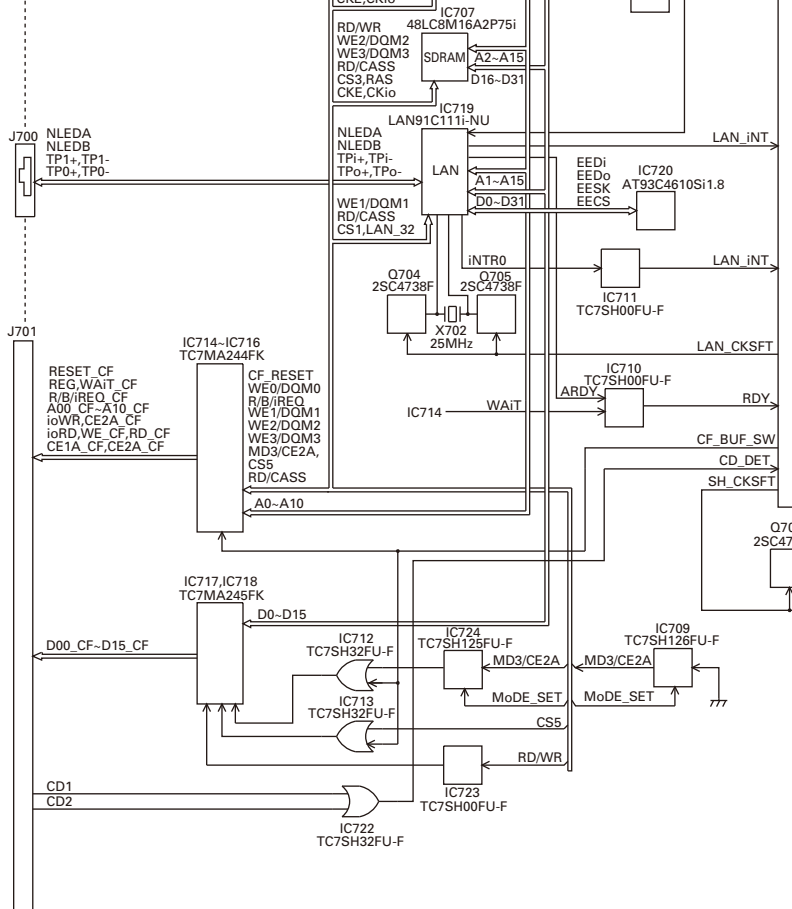
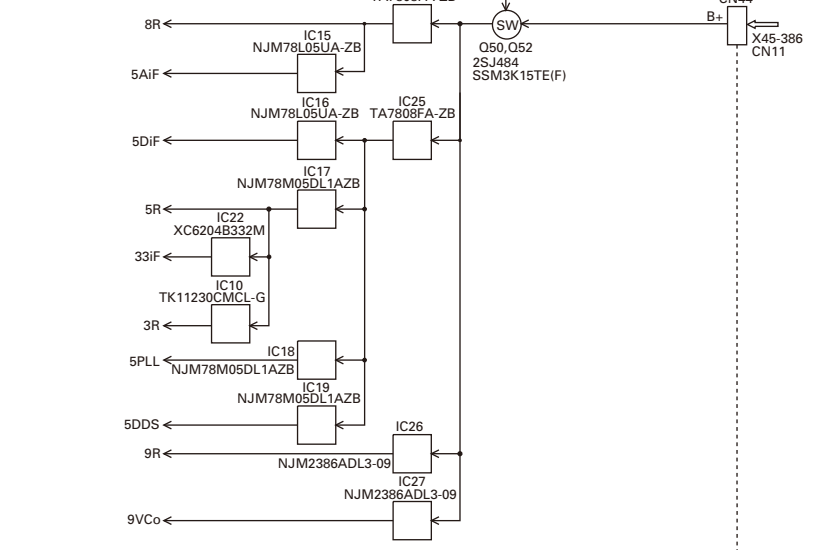
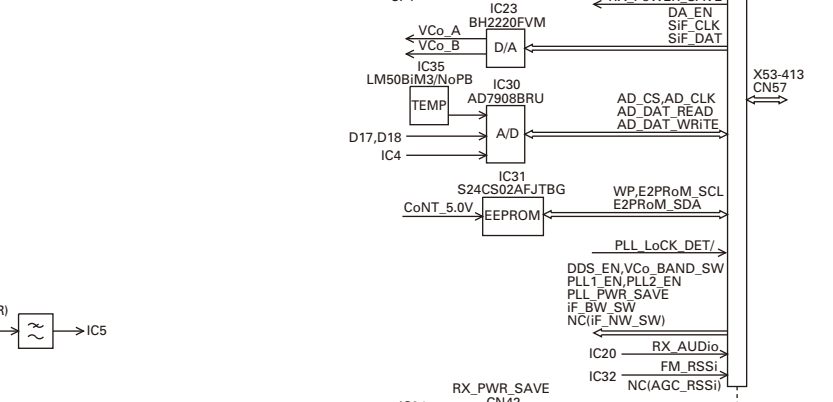
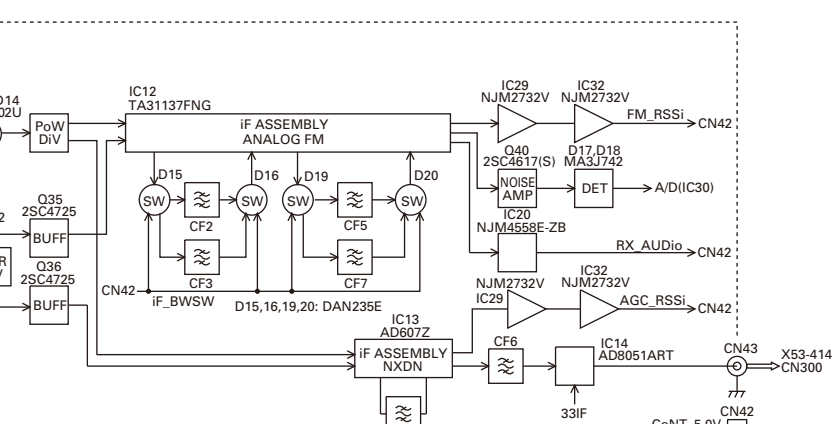
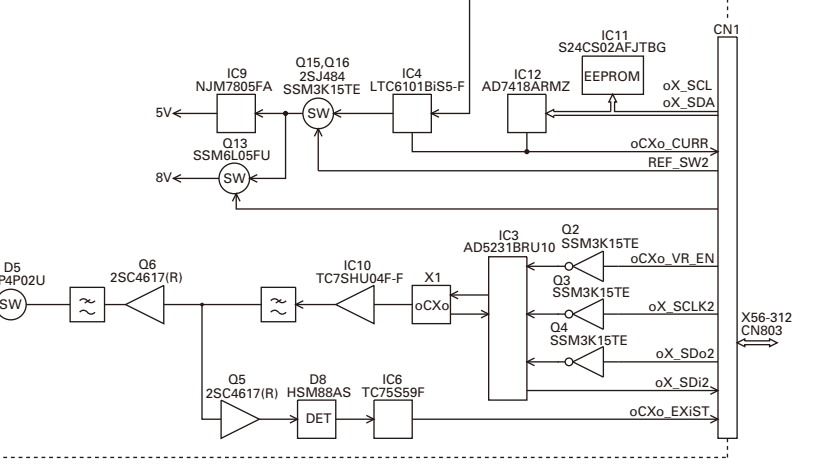


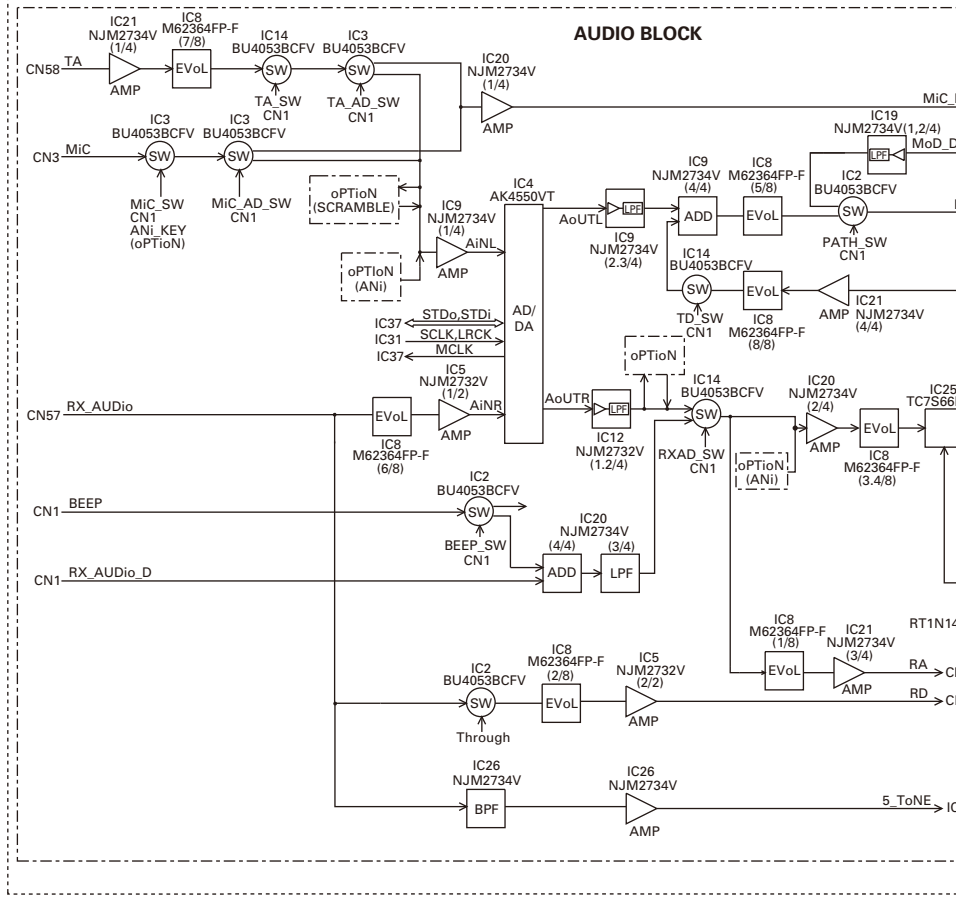
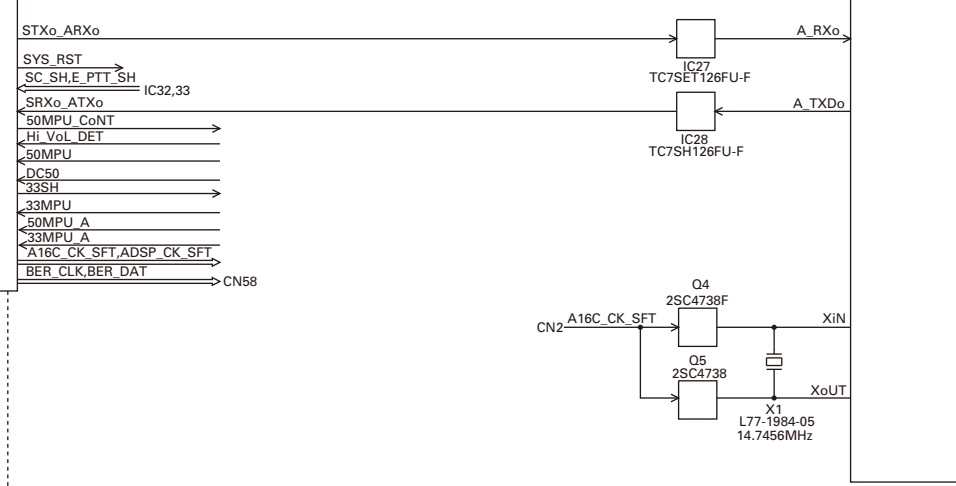
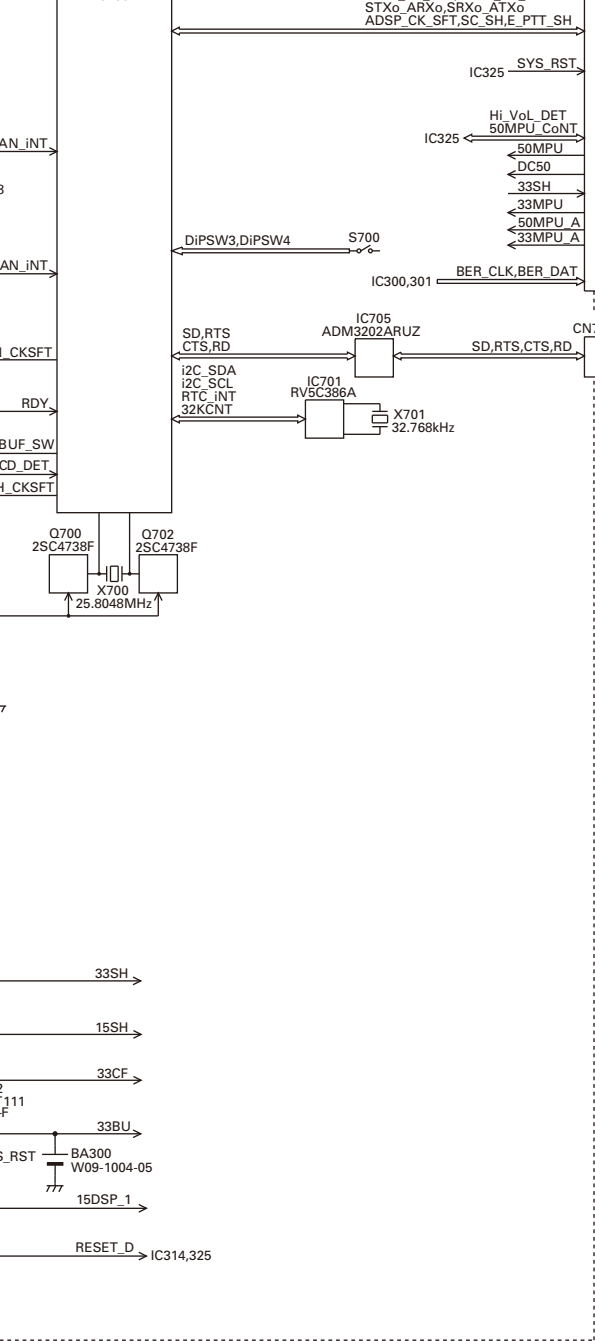
**FINAL UNIT
X45-386 D/5**



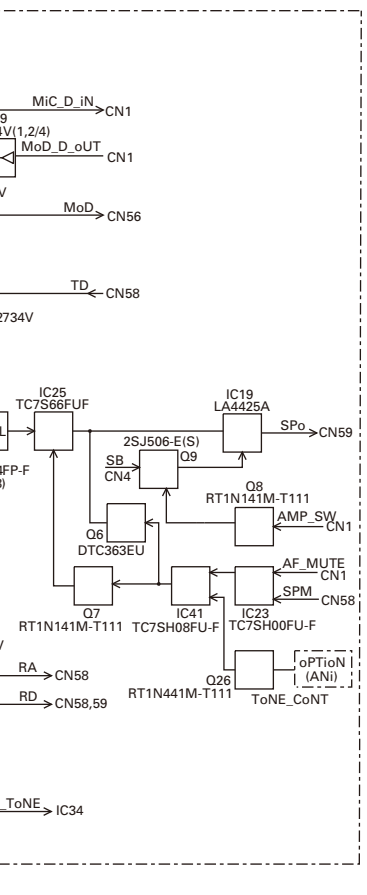
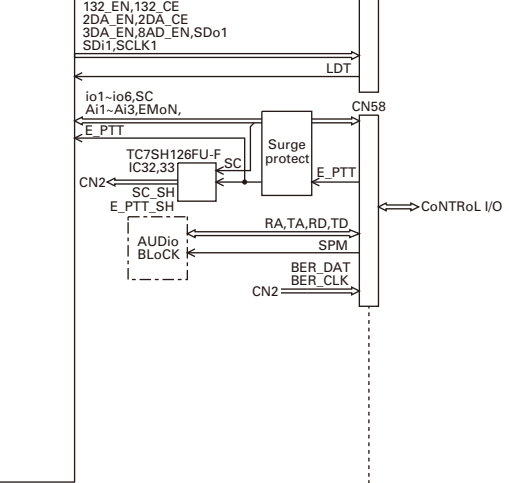
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X55-310**

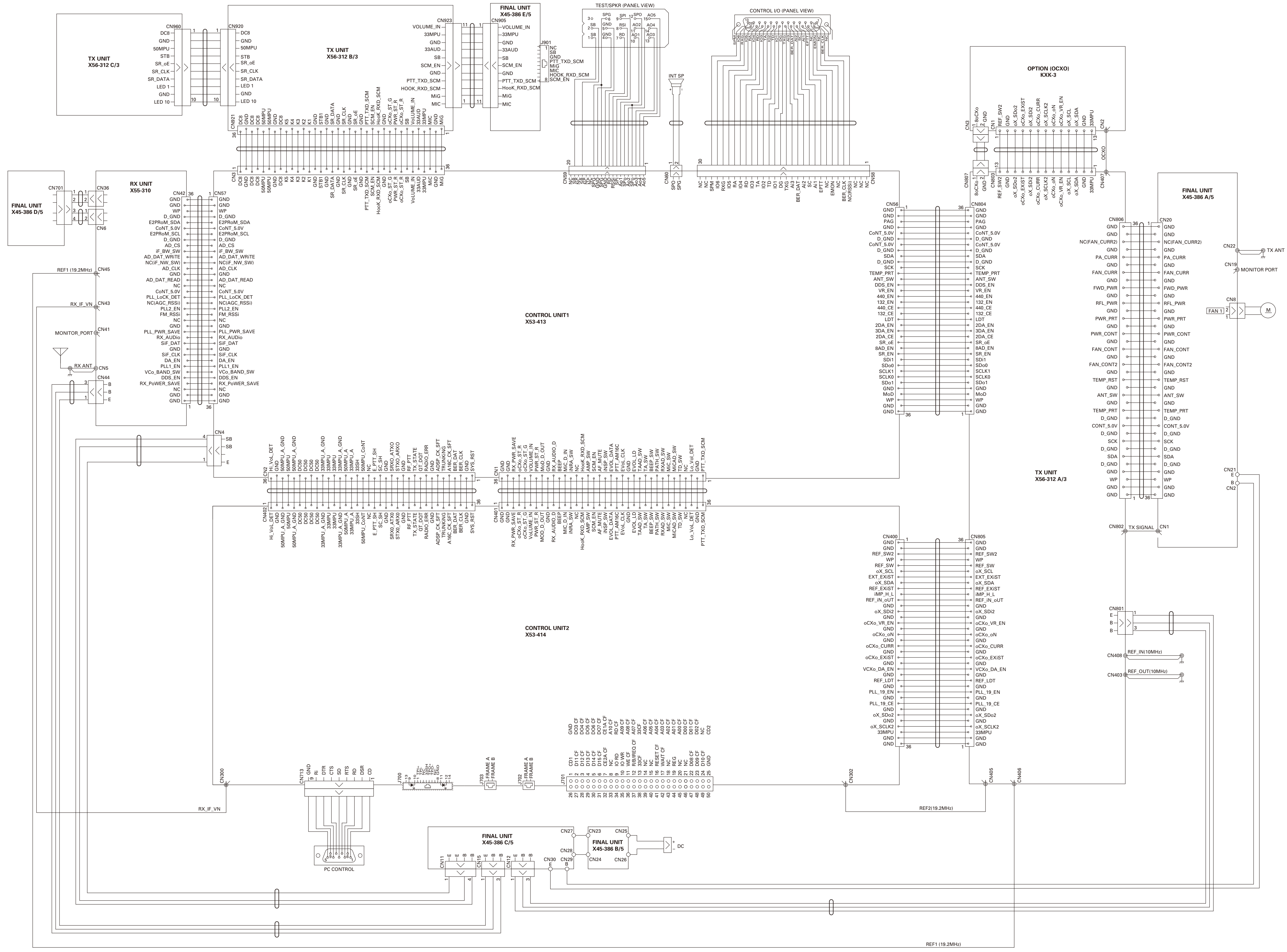




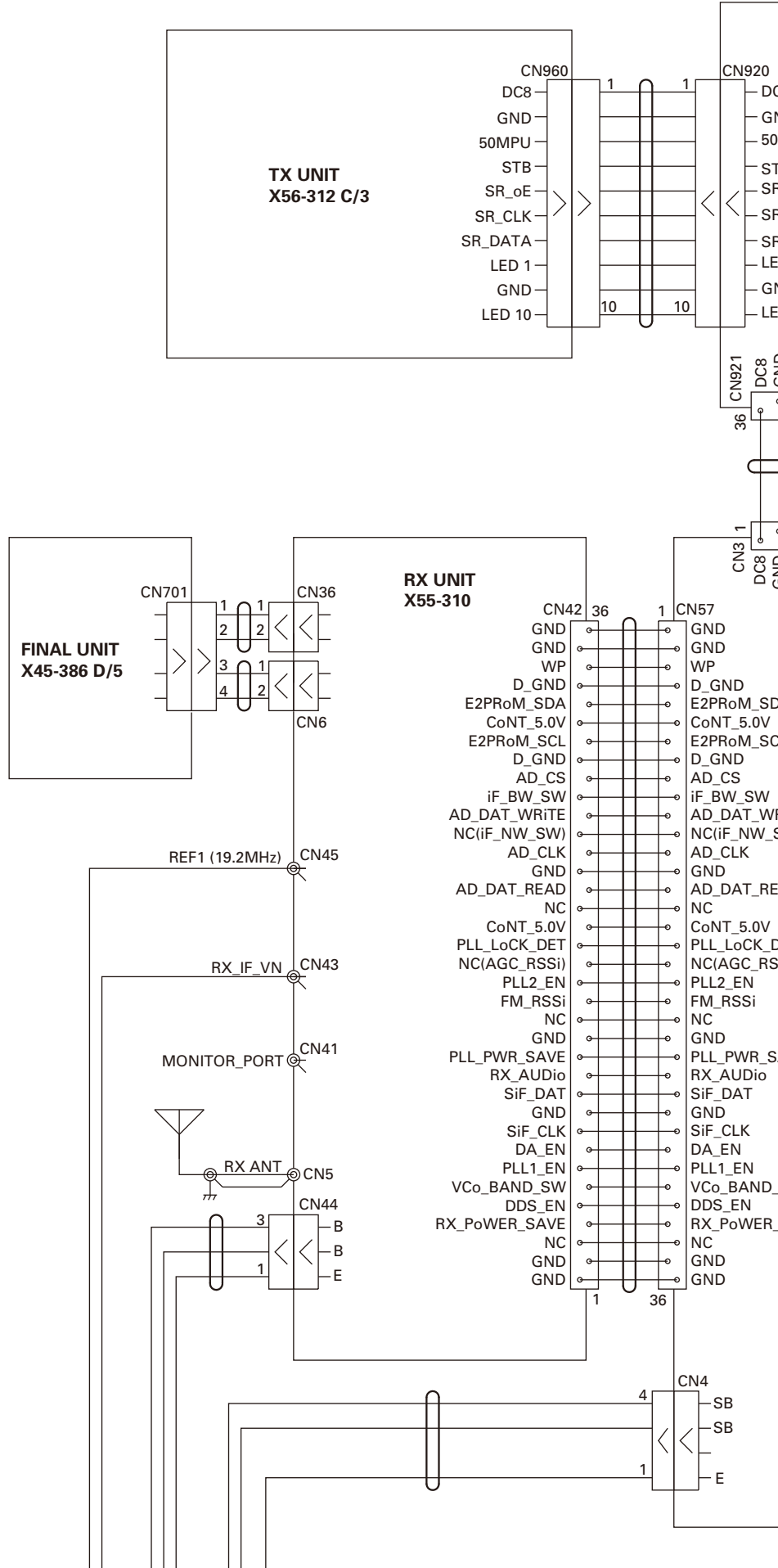


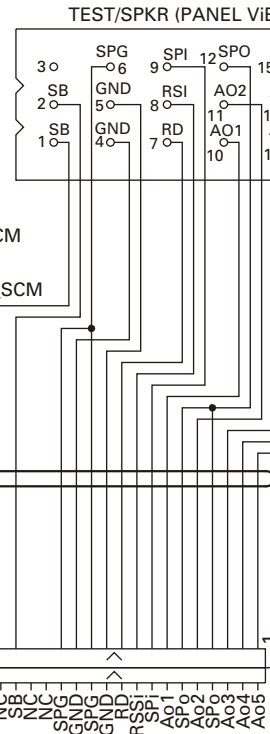
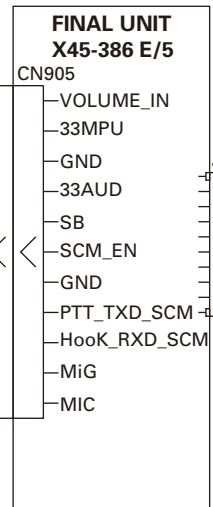
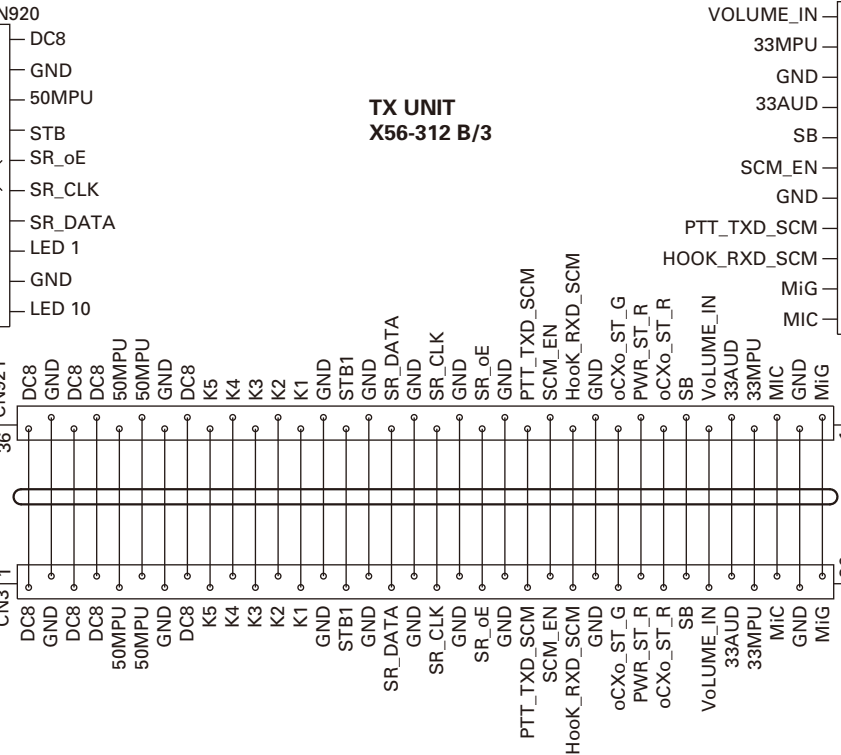
- 33H: IC702-IC705, IC707-IC724, IC726, IC17, IC34, IC37, IC28, IC30-IC33, IC40
- 33BU: IC700, IC701
- 33MPU: IC7, IC303, IC304, IC313, IC314, IC316, IC318, IC323, IC324, IC325, IC327, IC725, IC727
- 33MPU_A: IC309, IC312
- 33AUD: IC2-IC5, IC8, IC9, IC12, IC14, IC19, IC20, IC21, IC23, IC25, IC41, IC926
- 33CF: J701
- 50MPU: IC300-IC302, IC319-IC321, IC315, IC22, IC27, IC35, IC36, IC38, IC39, IC1, IC150, IC920-IC925, IC960-IC963
- 50MPU_A: IC315
- 18DSP: IC37
- 15SH: IC703
- 15DSP: IC323, IC324
- 80ANI: oPTioN (ANI)
- 80SCR: oPTioN (SCRAMBLE)



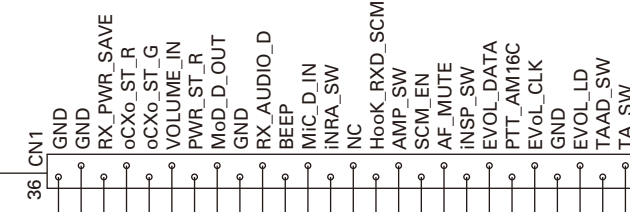
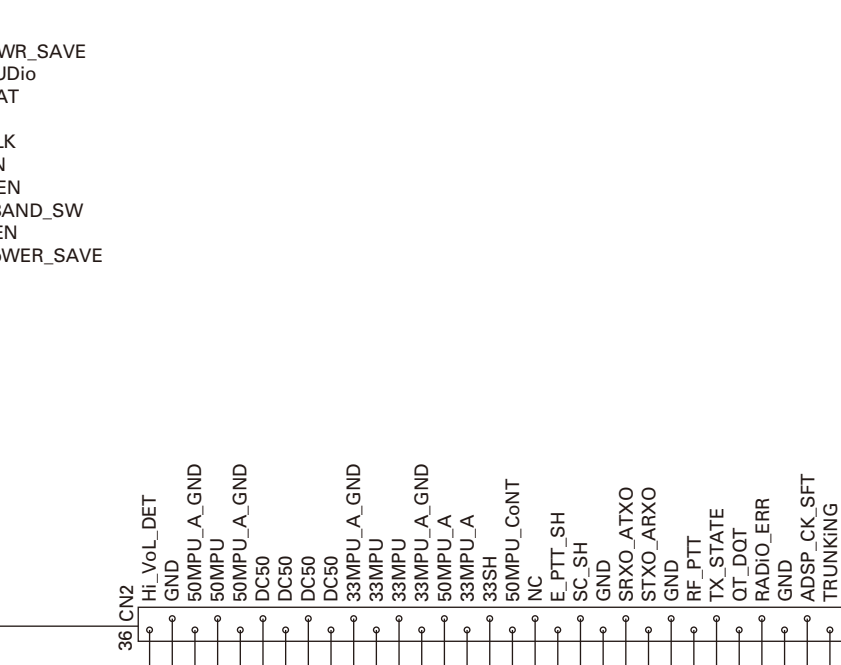


NXR-800H INTERCONNECTION DIAGRAM / 互连图

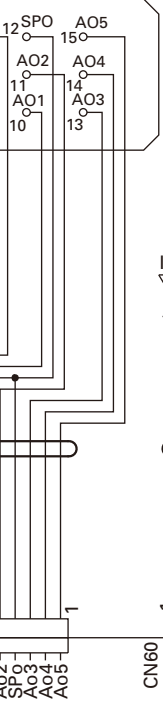




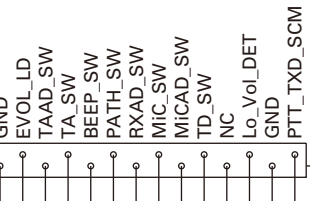
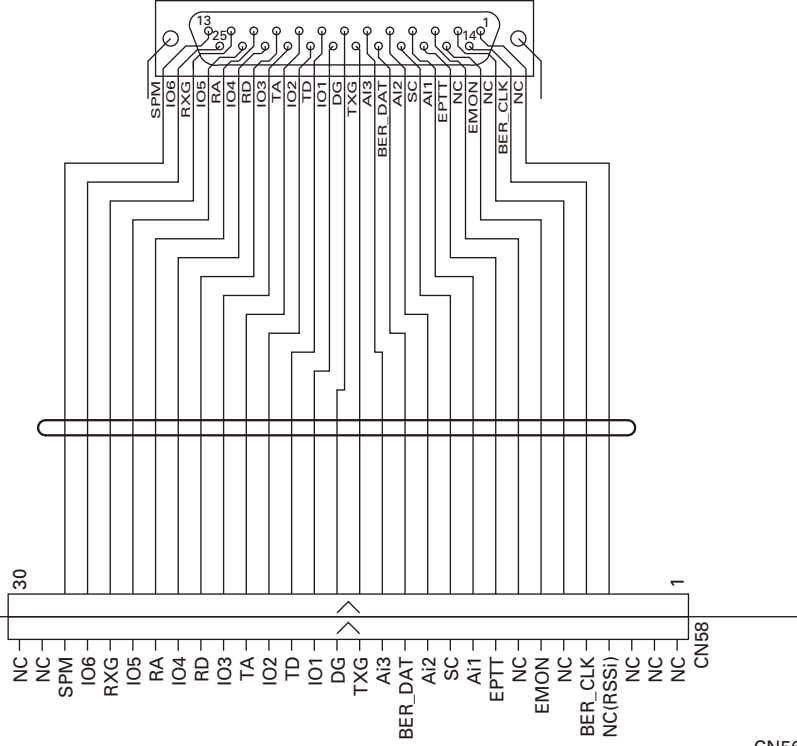
CONTROL UNIT1 X53-413



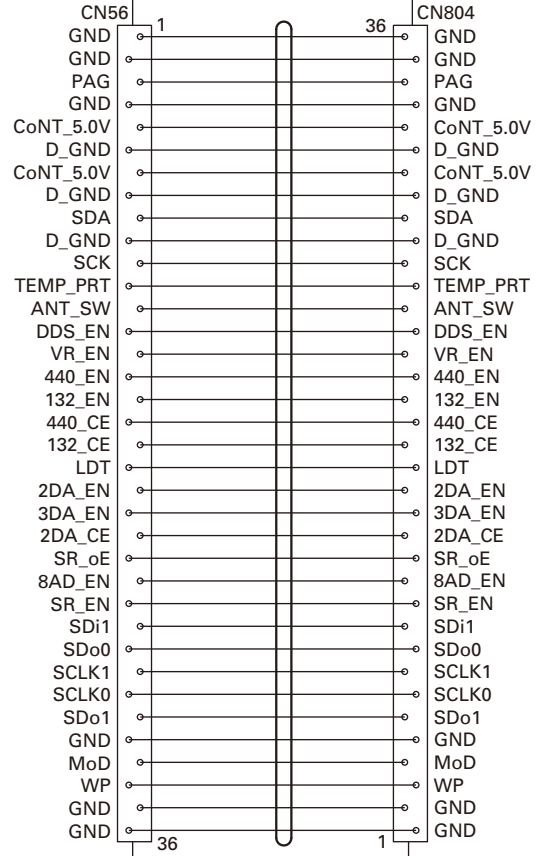
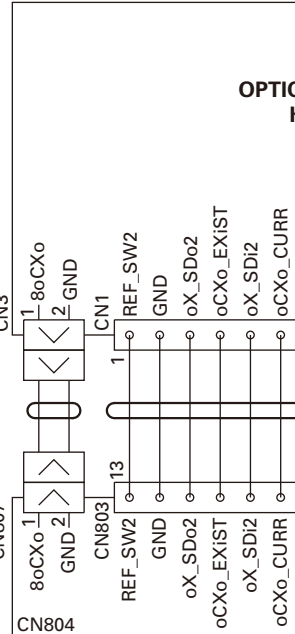
PANEL VIEW



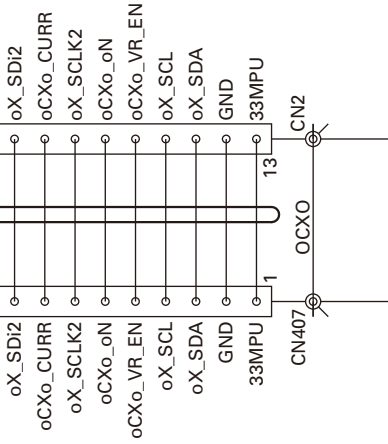
CONTROL I/O (PANEL VIEW)



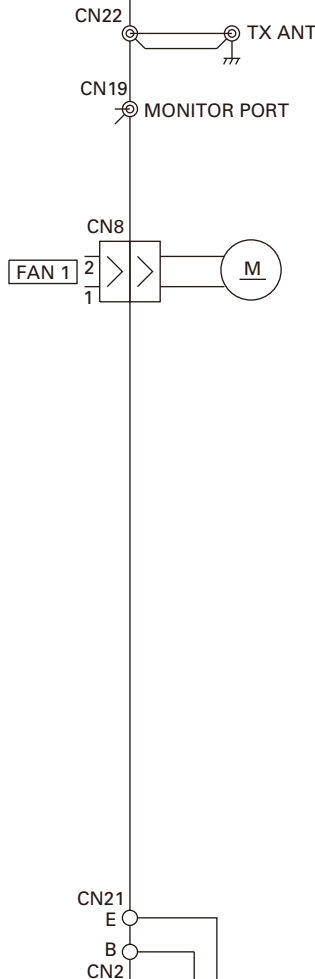
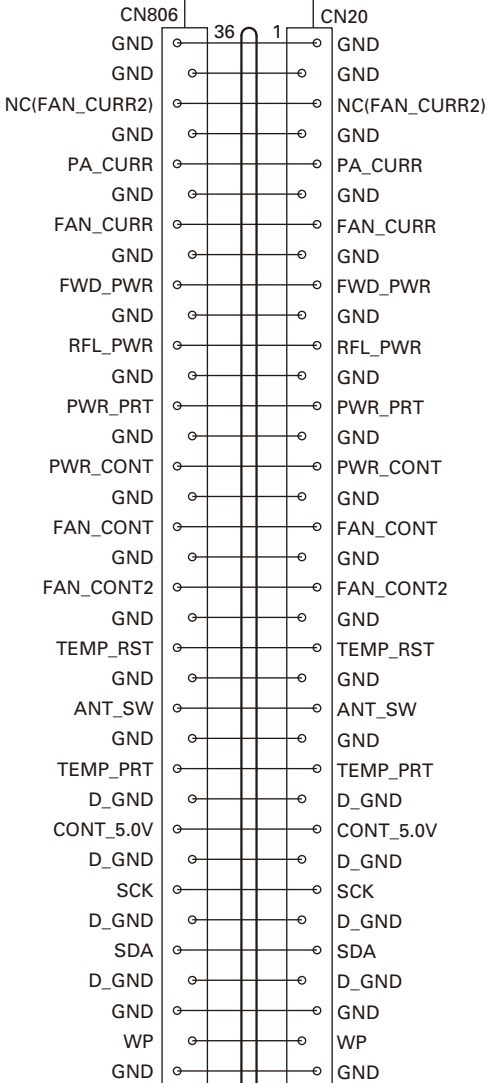
OPTIC



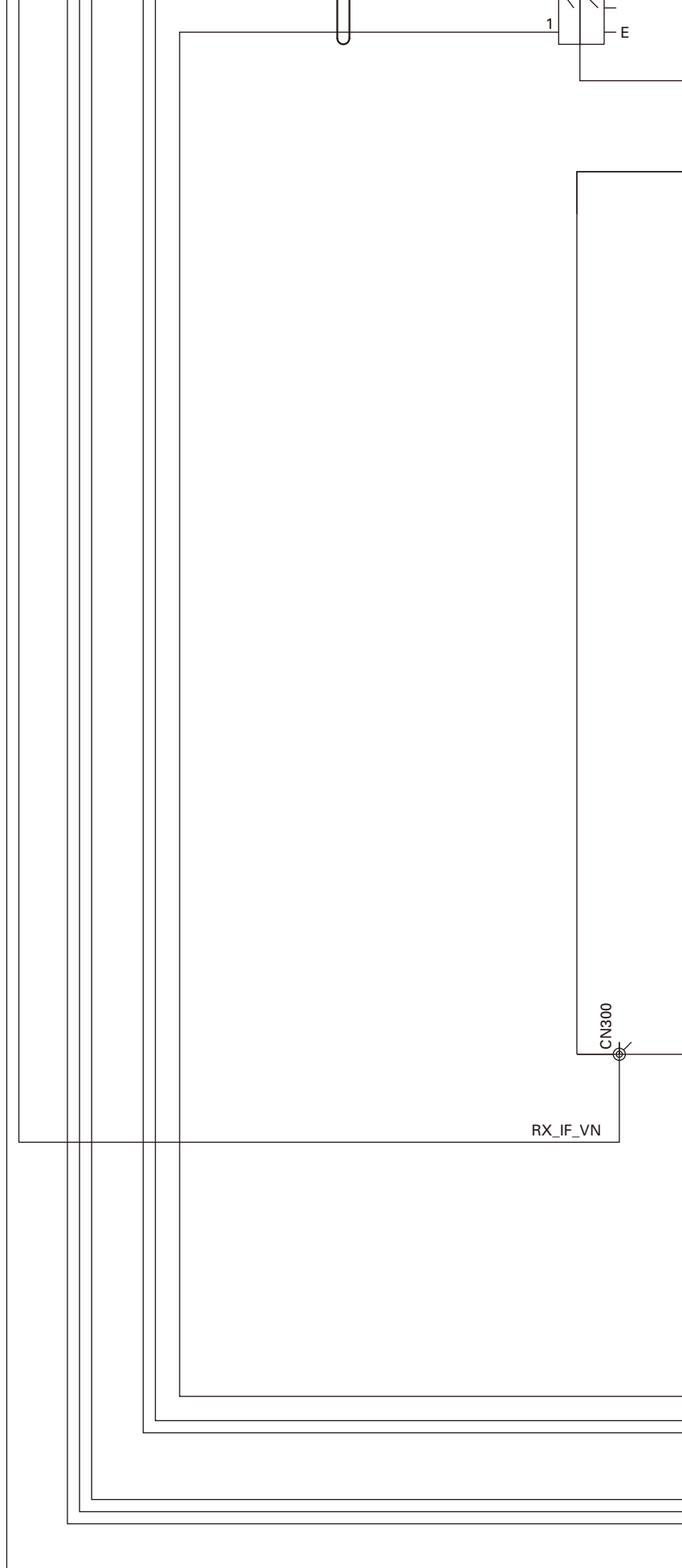
**OPTION (OCXO)
KXX-3**



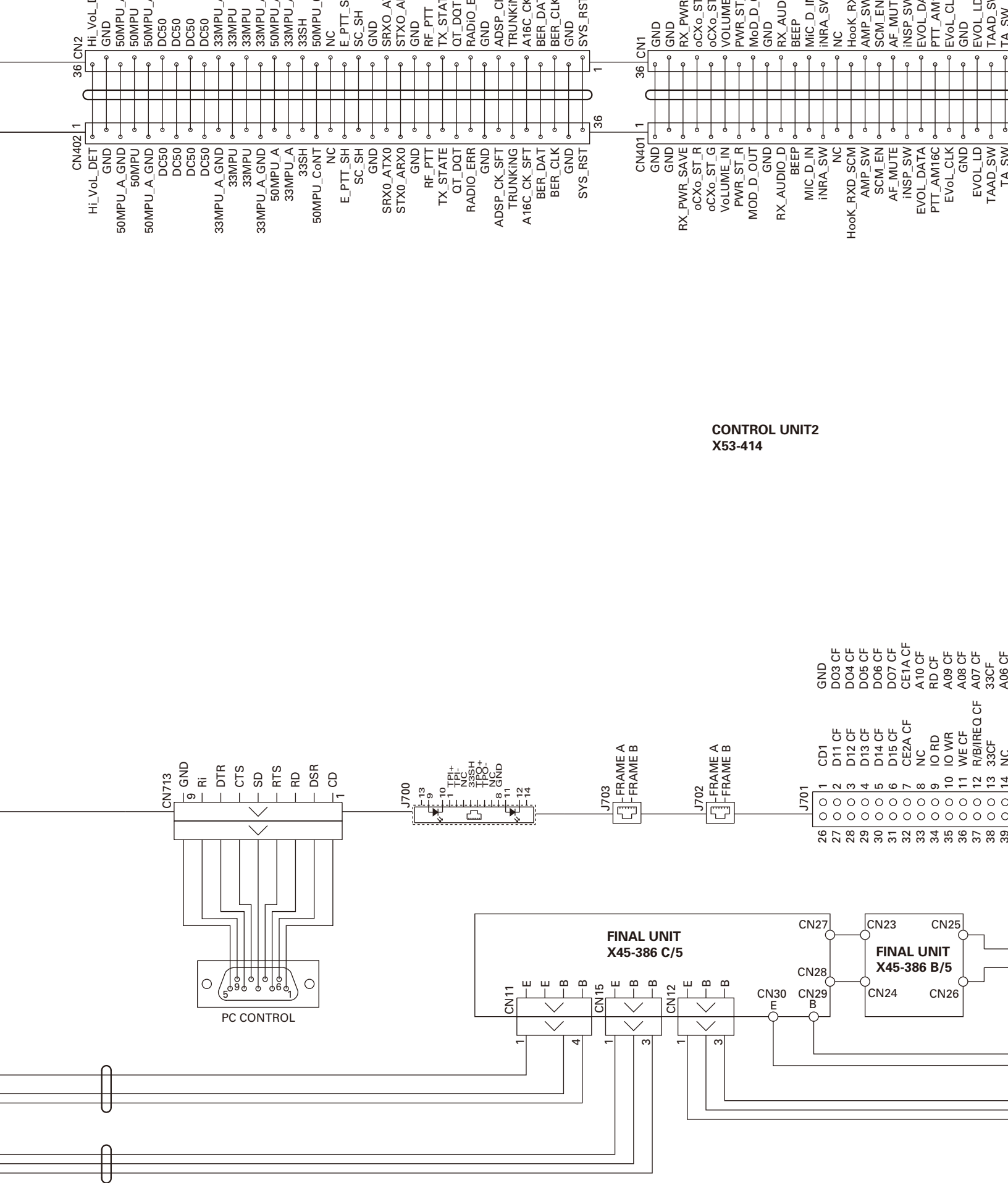
**FINAL UNIT
X45-386 A/5**

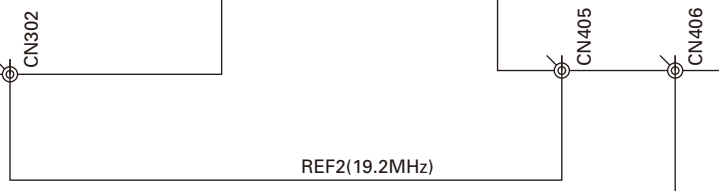
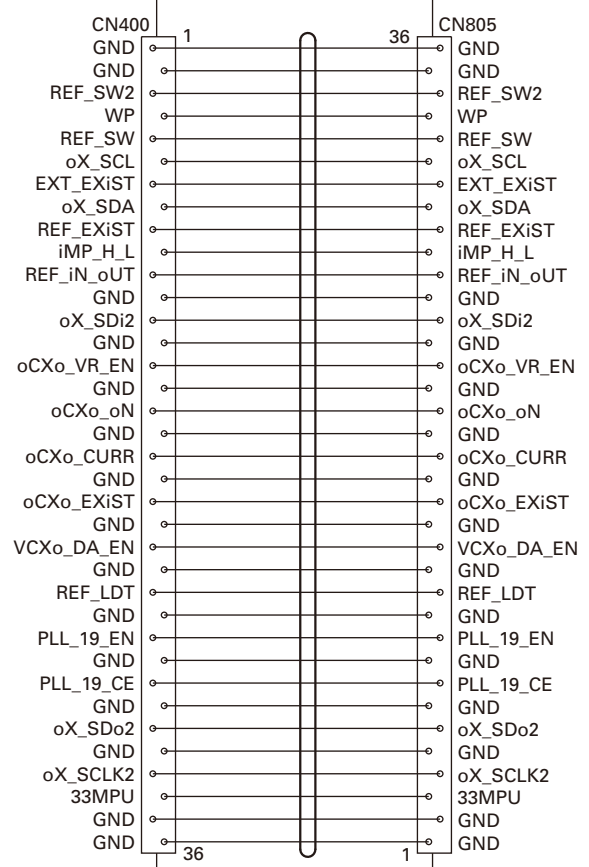
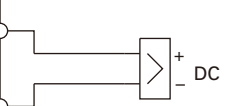
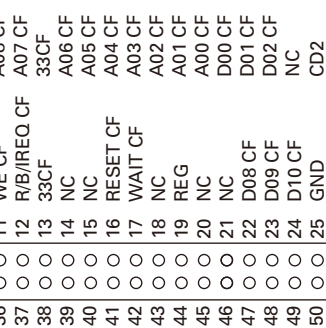
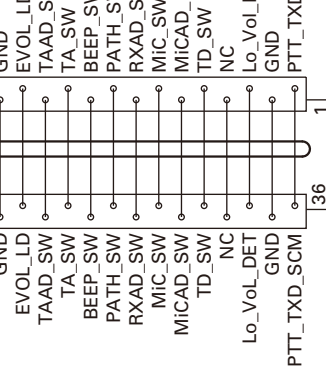


**TX UNIT
X56-312 A/3**



**CONTROL UNIT2
X53-414**

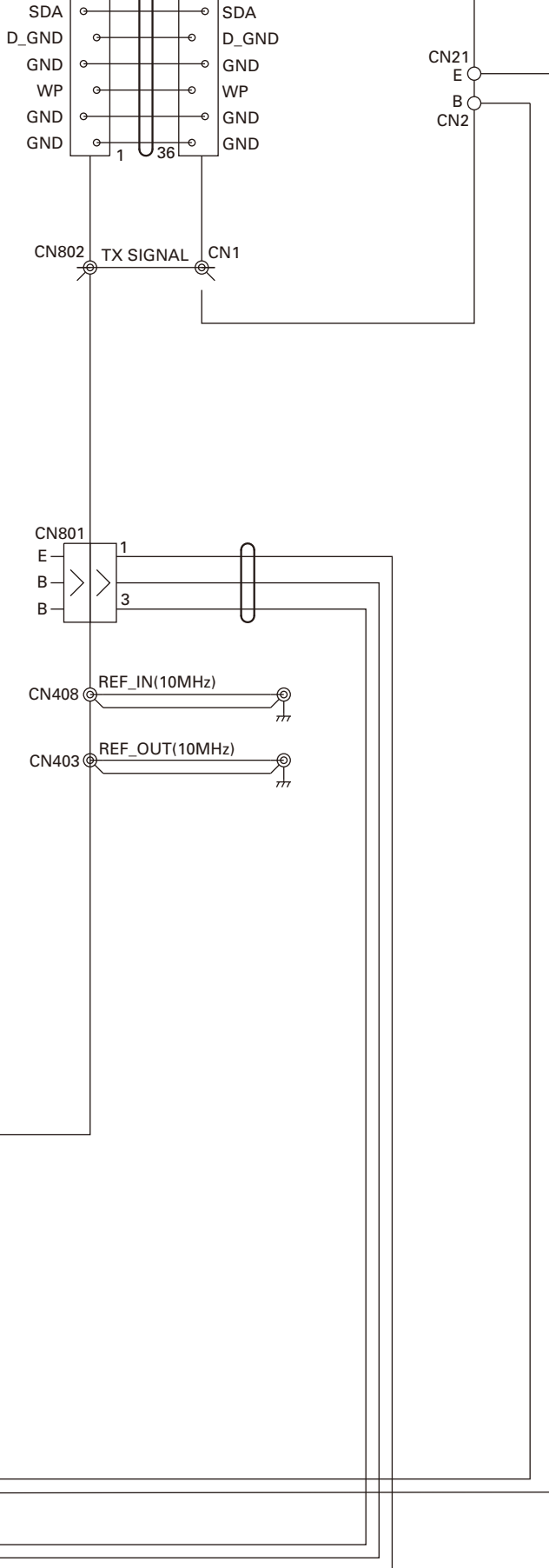




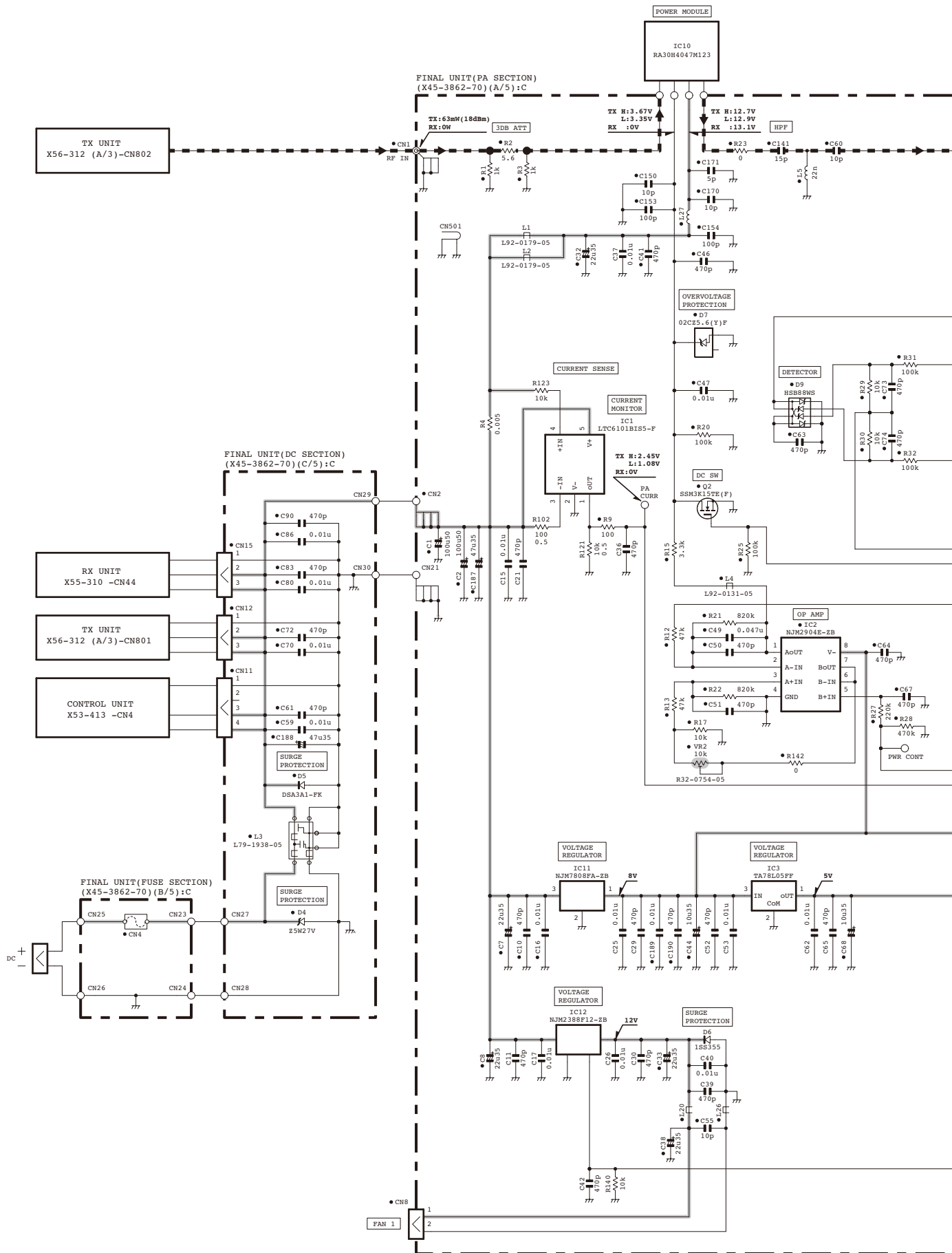
REF1 (19.2MHz)

TX X5

**TX UNIT
X56-312 A/3**

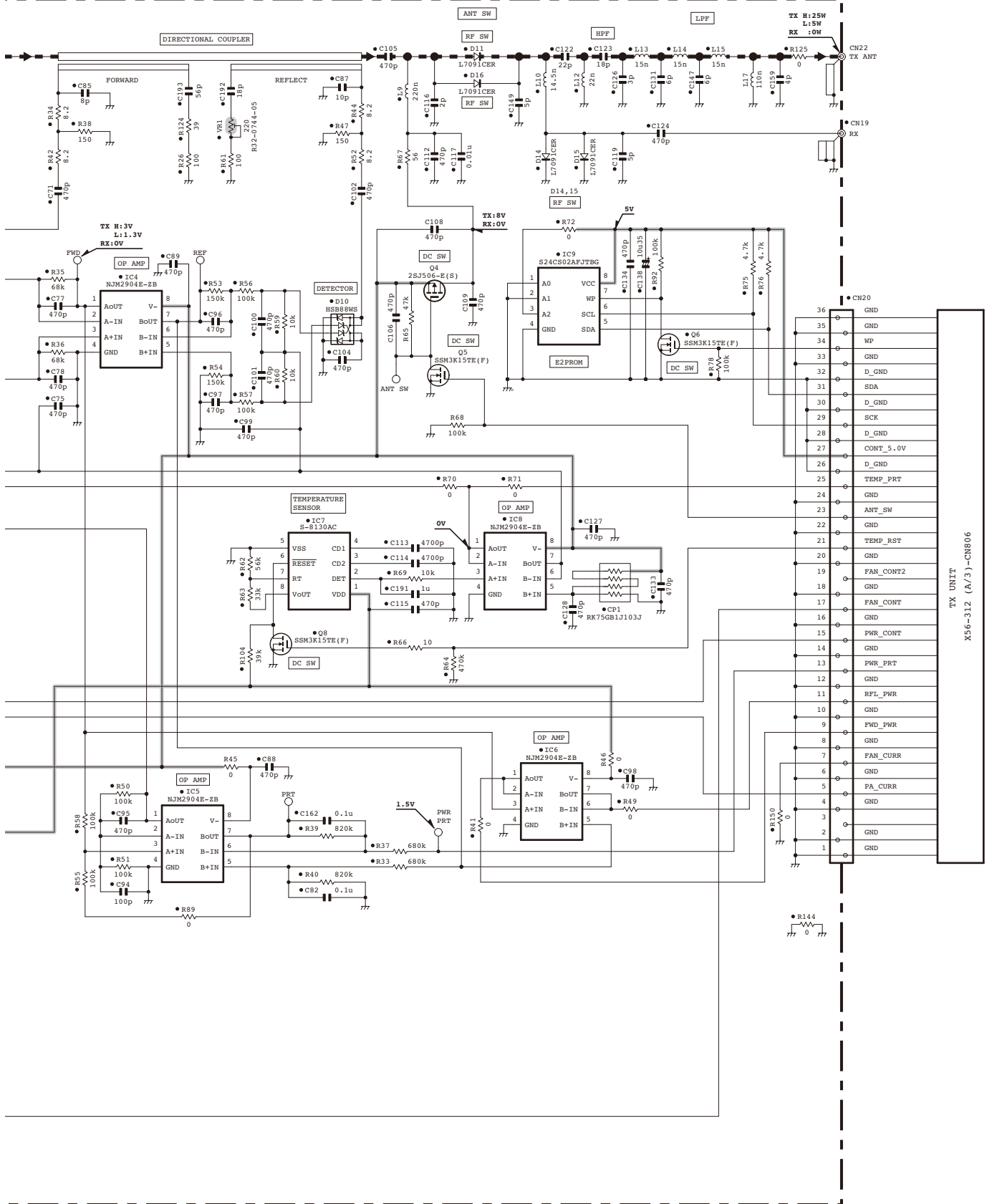


NXR-800H SCHEMATIC DIAGRAM / 原理图



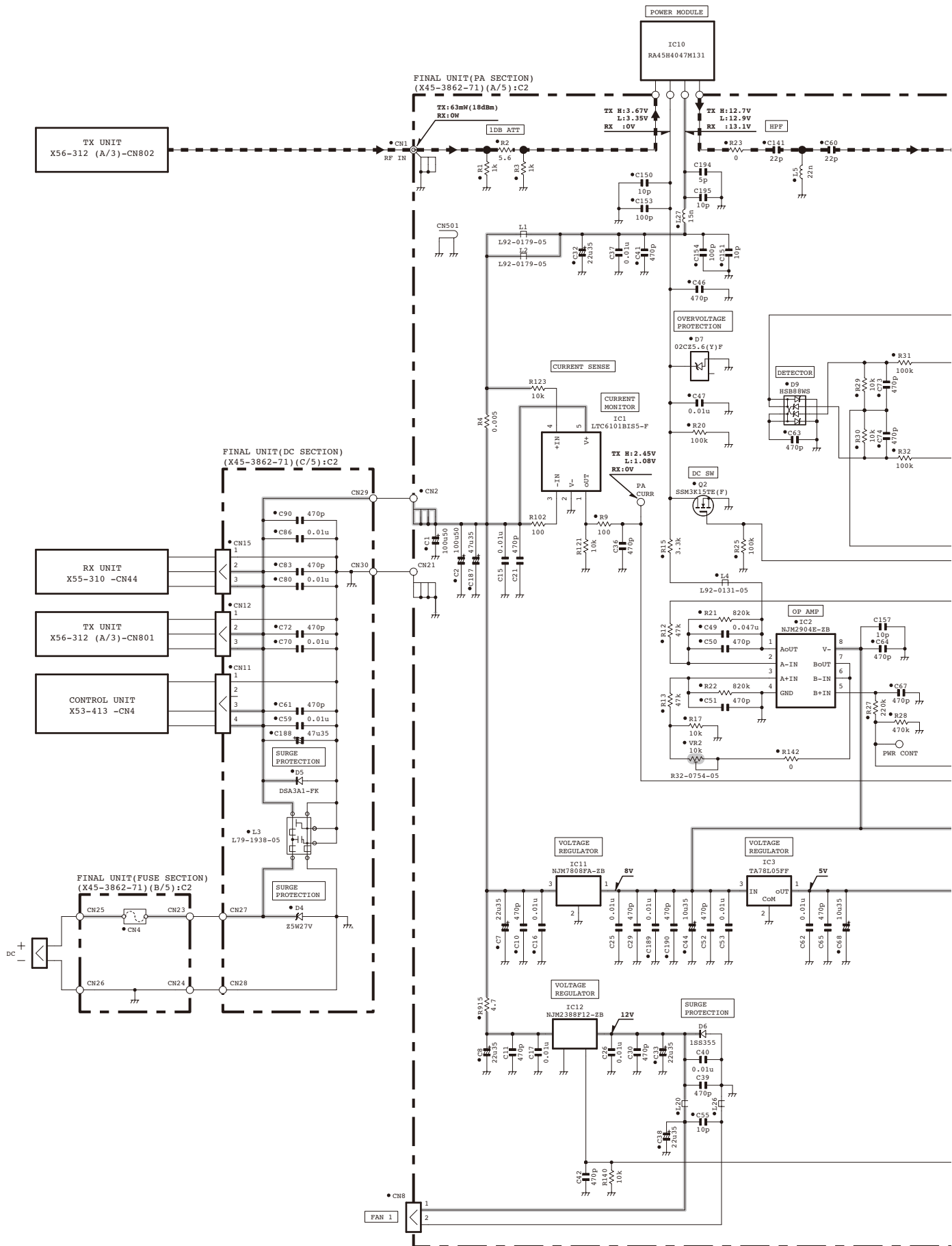
SCHEMATIC DIAGRAM / 原理图 NXR-800H

FINAL UNIT (PA SECTION)
[X45-3862-70] (A/5) : C



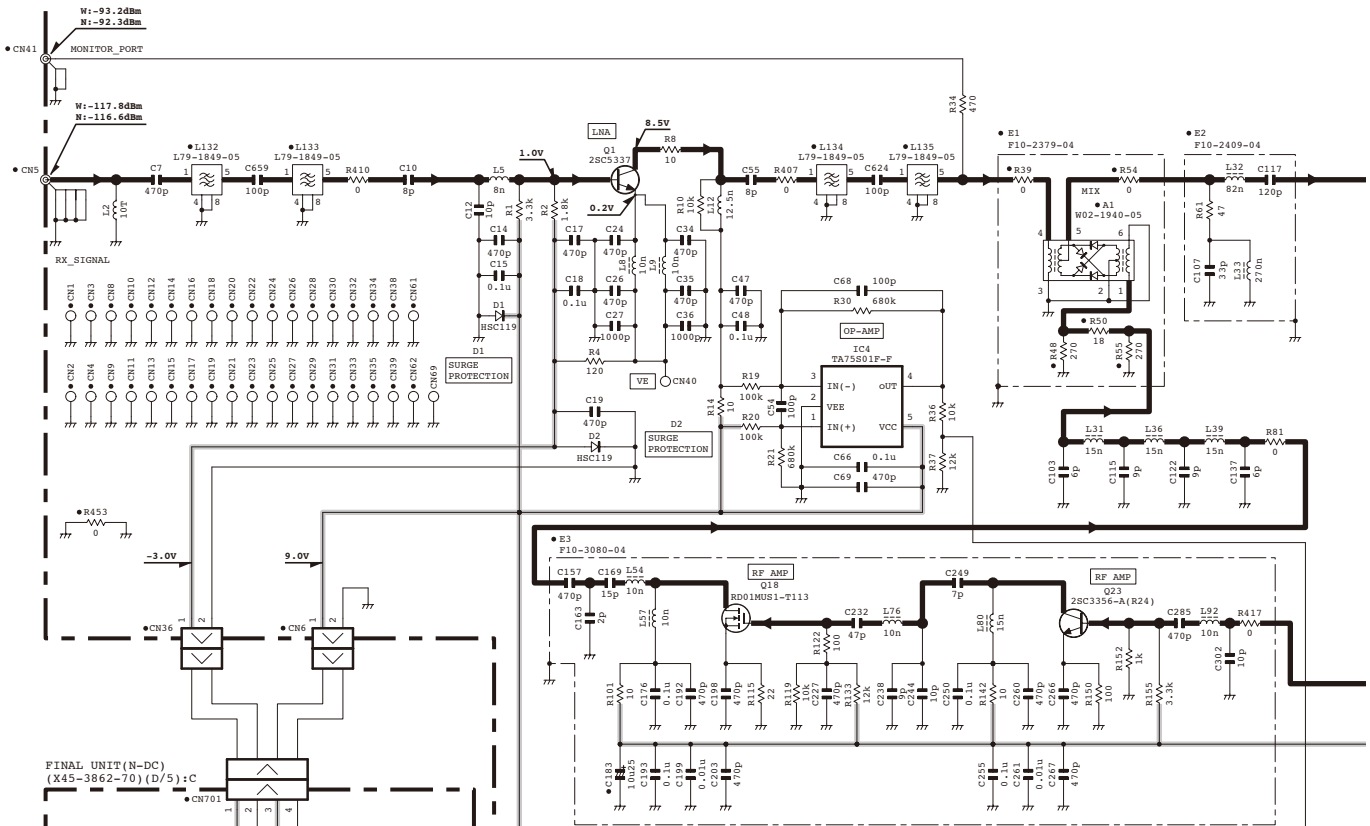
Note : The components marked with a dot (•) are parts of layer 1.

NXR-800H SCHEMATIC DIAGRAM / 原理图

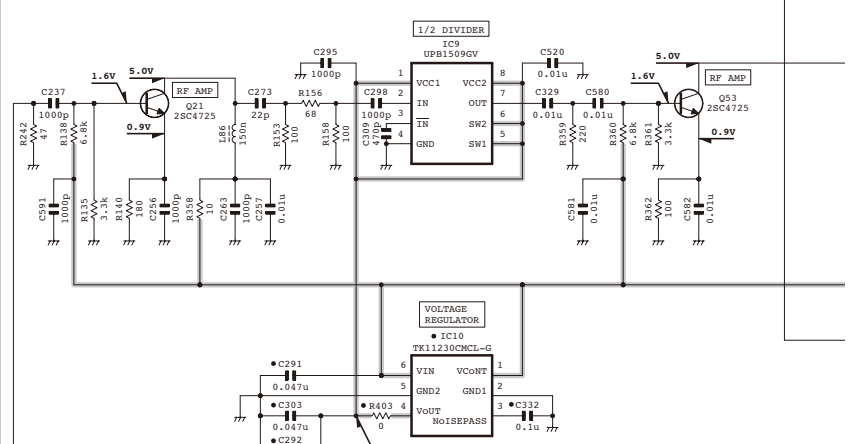
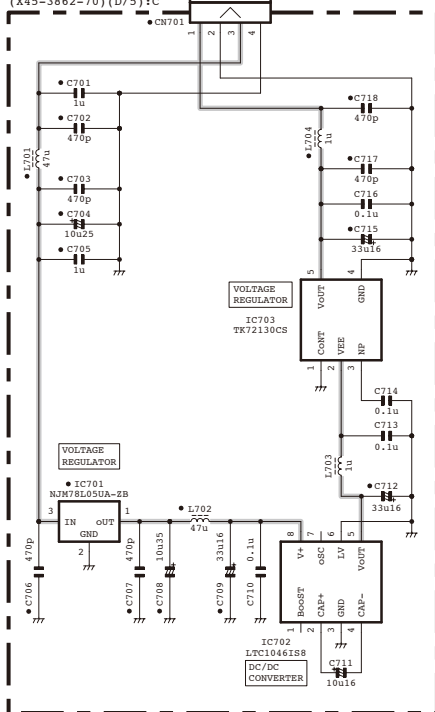


NXR-800H SCHEMATIC DIAGRAM / 原理图

RX UNIT(X55-3102-71):C

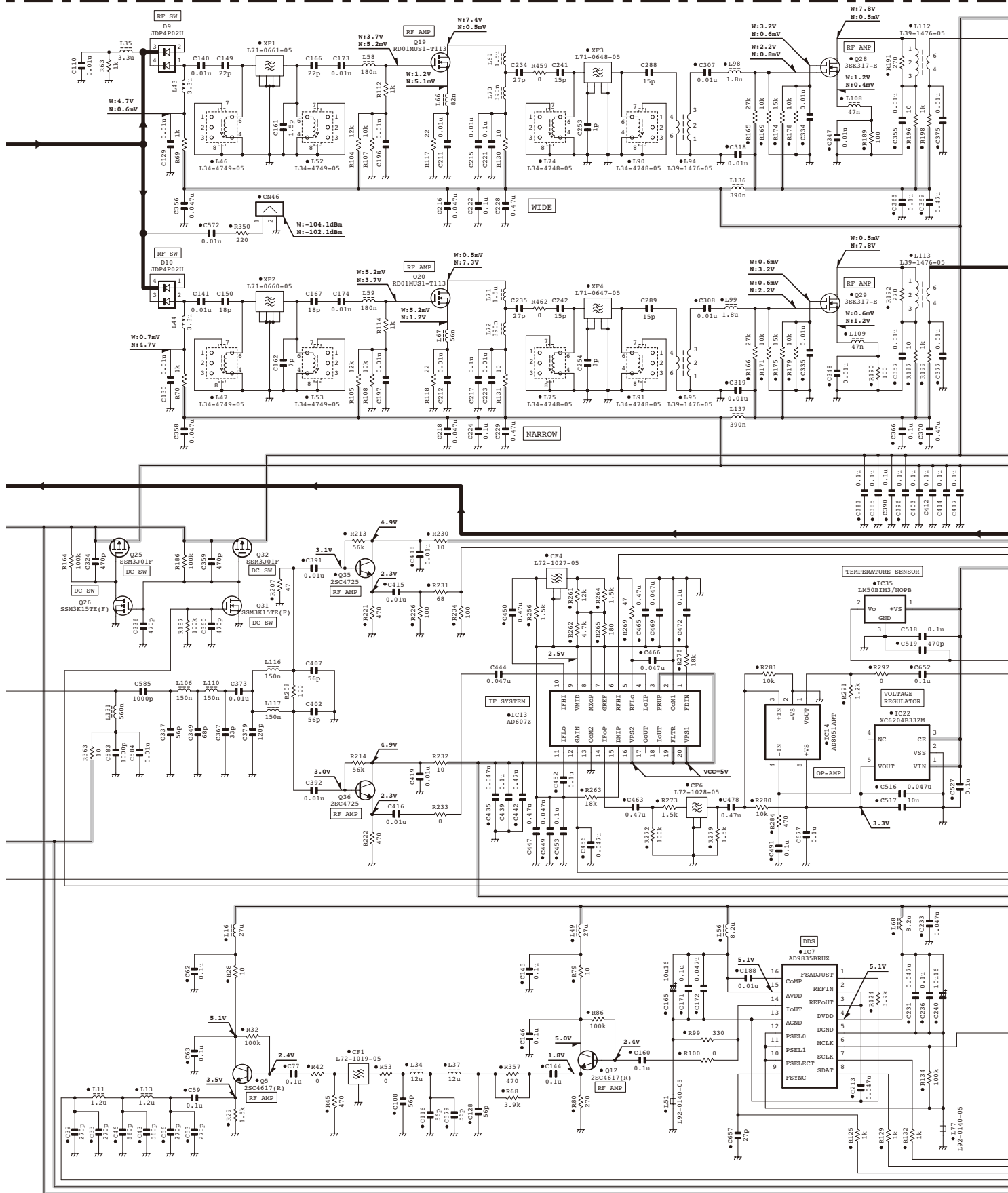


FINAL UNIT(N-DC)
(X45-3862-70)(D/5):C



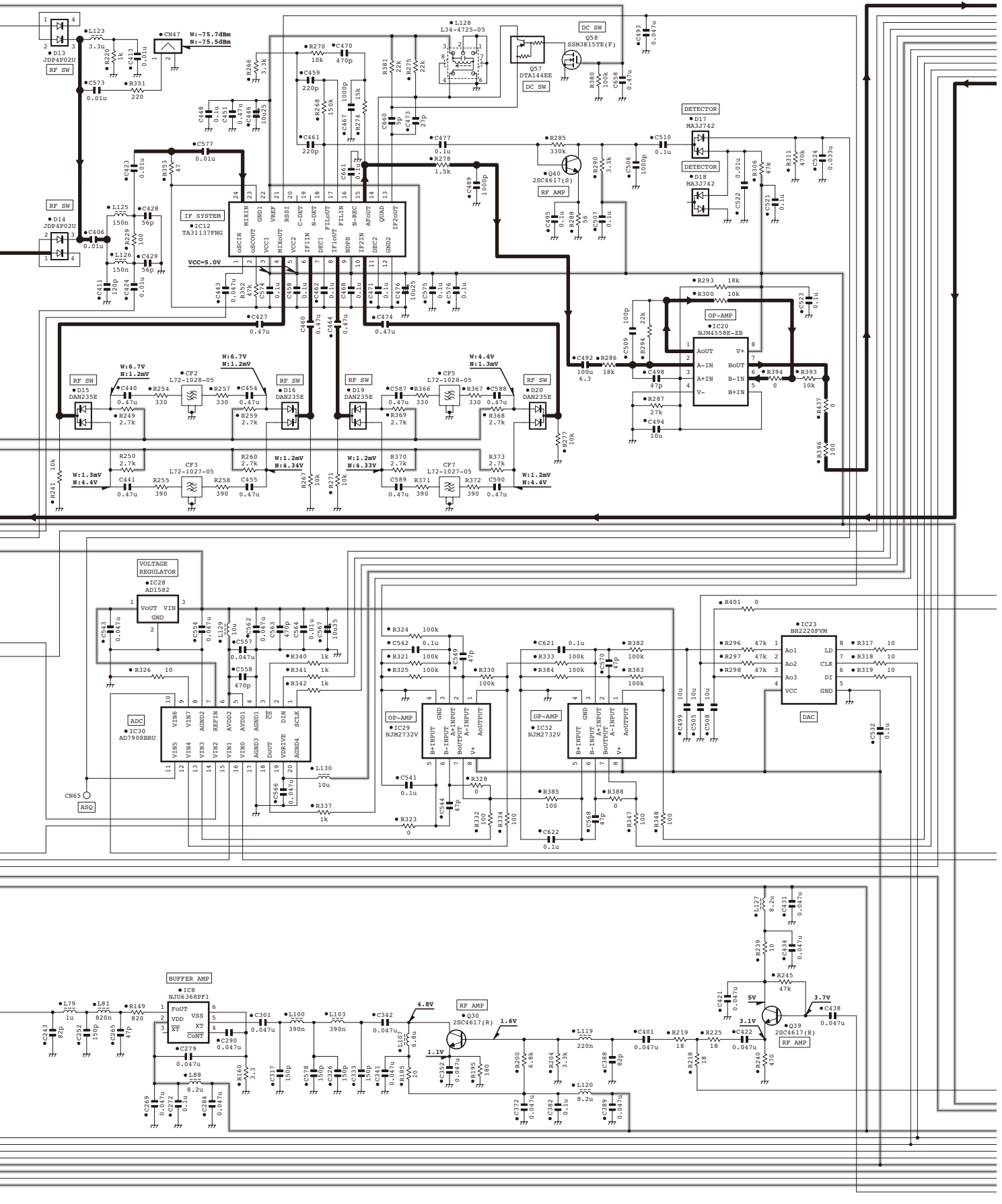
SCHEMATIC DIAGRAM / 原理图 NXR-800H

RX UNIT (X55-3102-71) : C



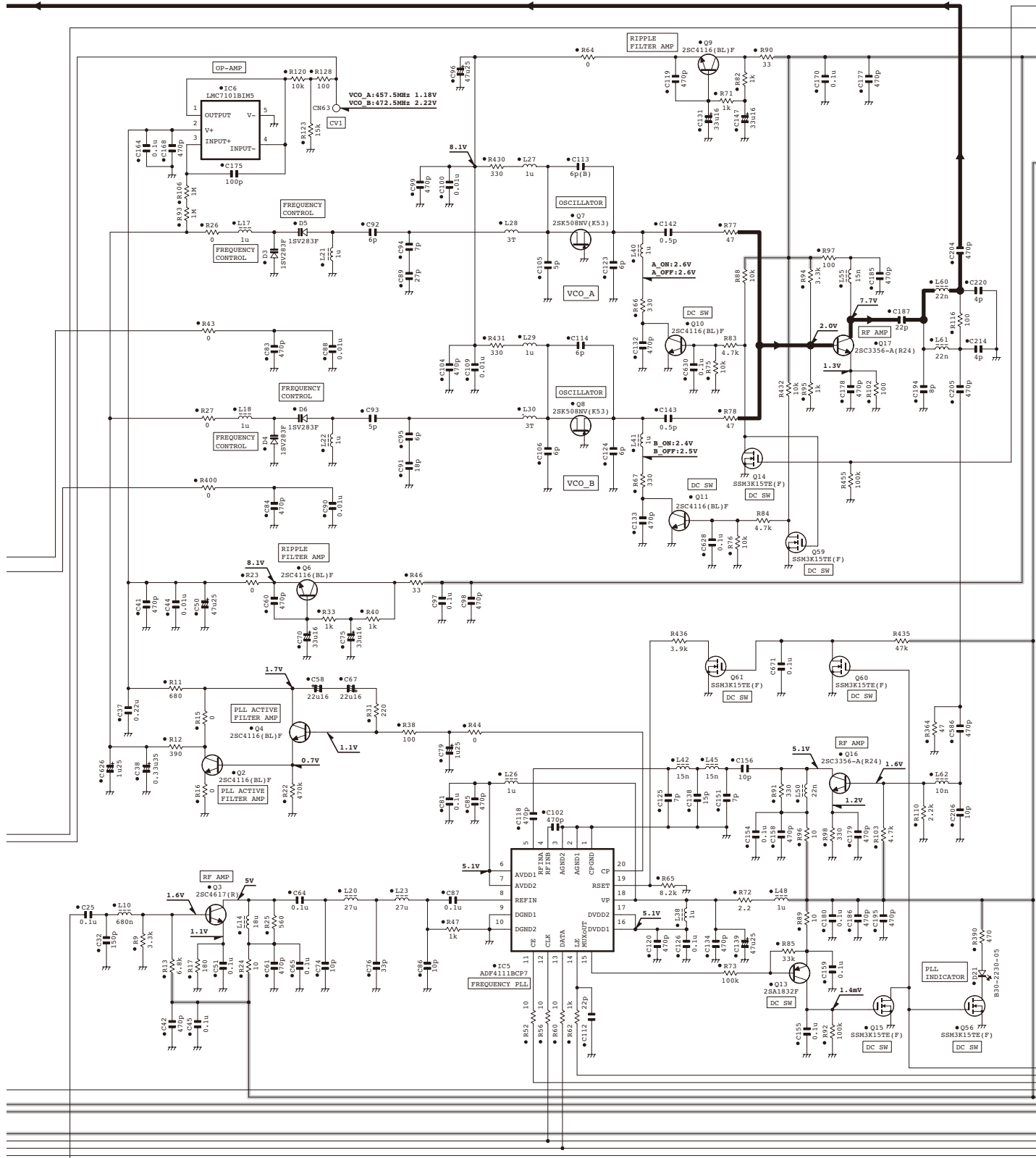
NXR-800H SCHEMATIC DIAGRAM / 原理图

RX UNIT (X55-3102-71) : C



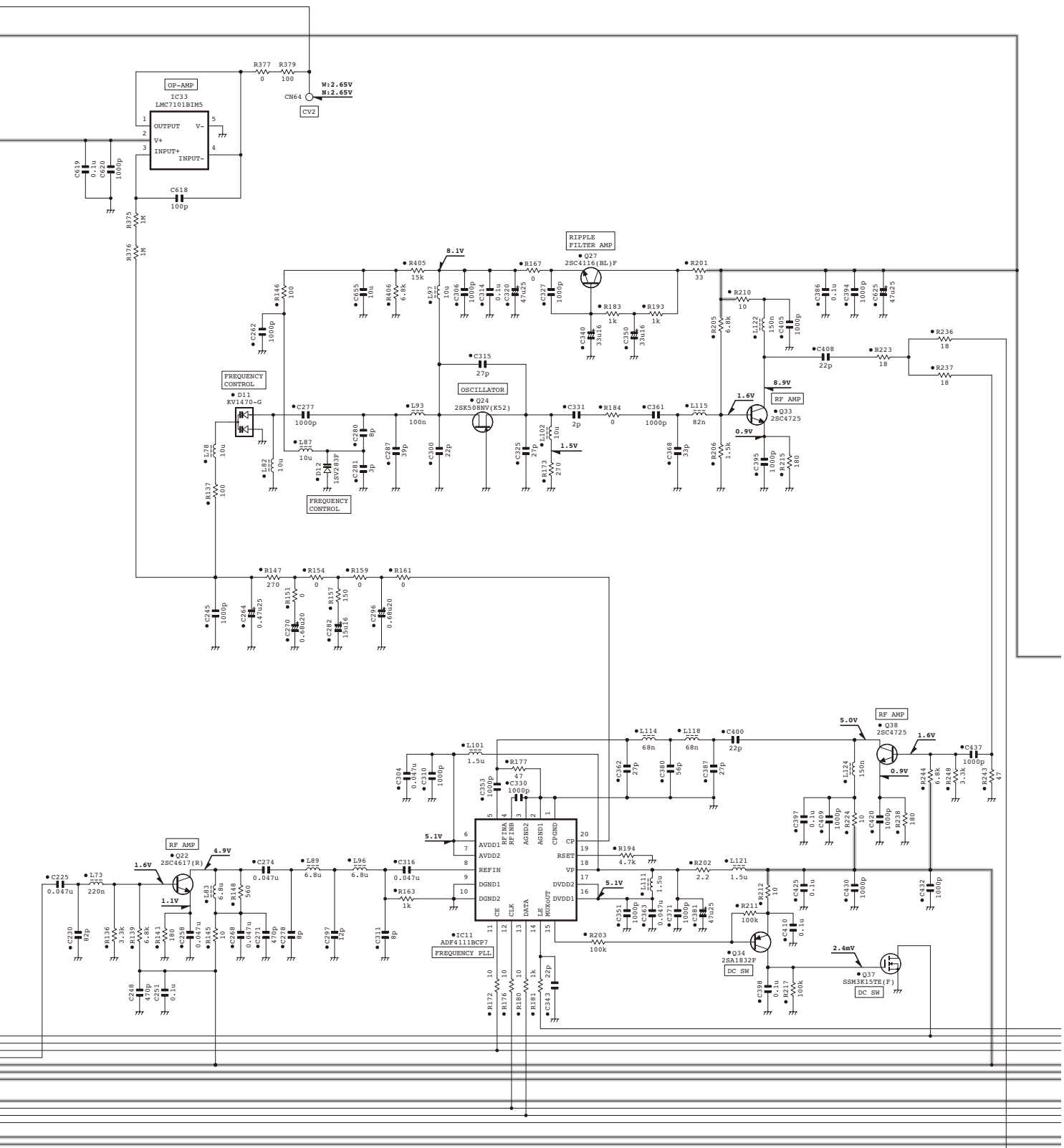
SCHEMATIC DIAGRAM / 原理图 NXR-800H

RX UNIT (X55-3102-71) : C



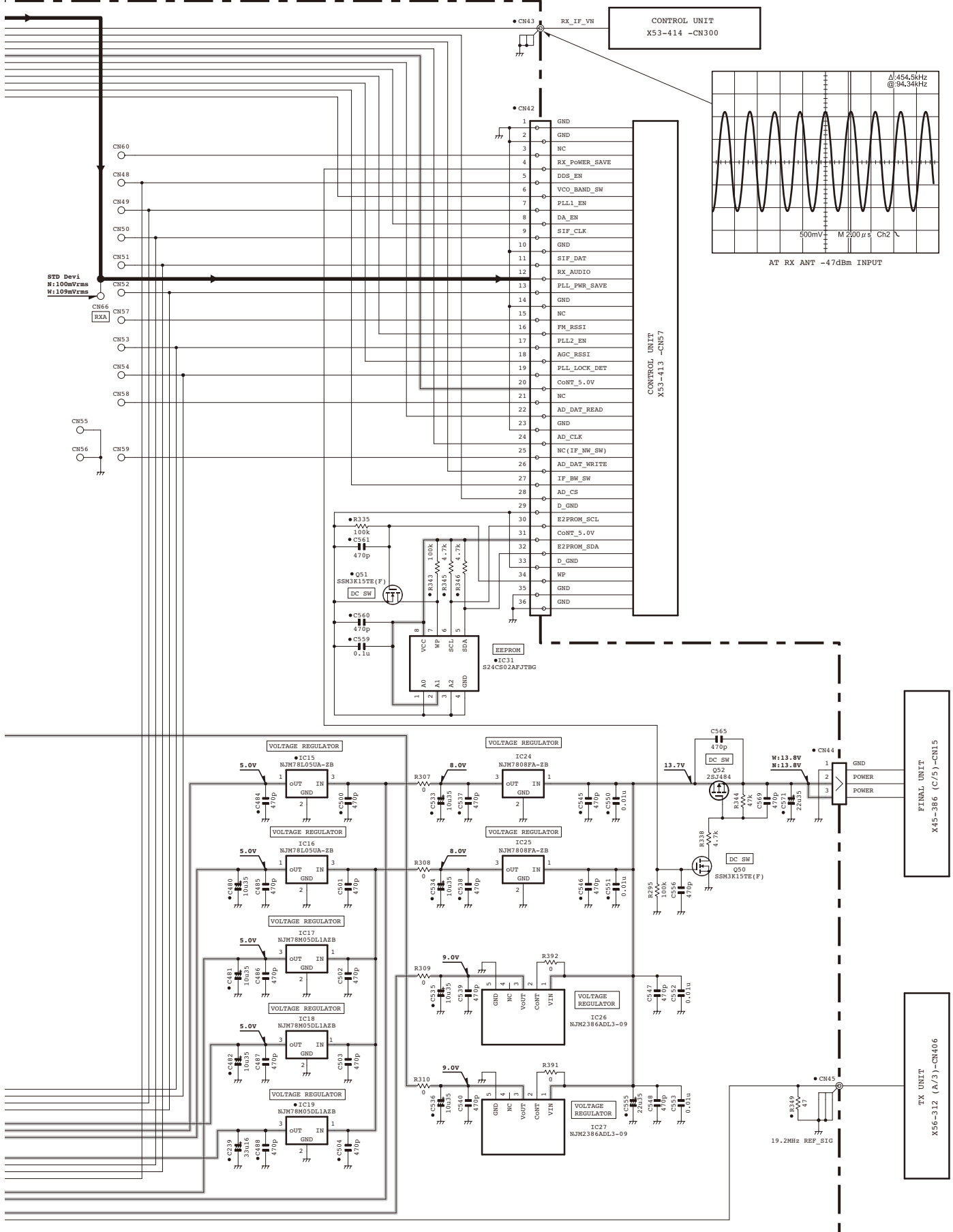
NXR-800H SCHEMATIC DIAGRAM / 原理图

RX UNIT (X55-3102-71) : C



SCHEMATIC DIAGRAM / 原理图 NXR-800H

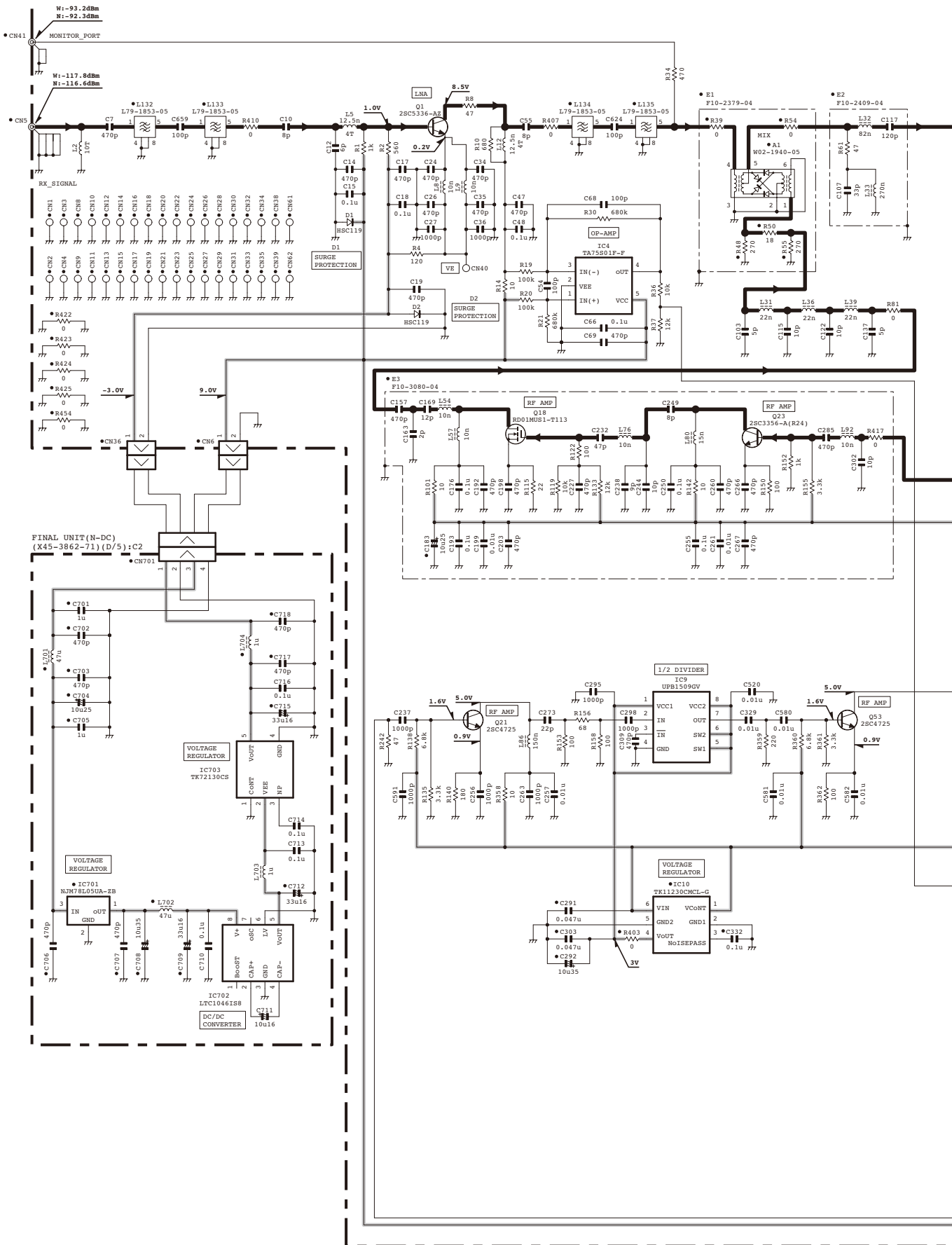
RX UNIT (X55-3102-71) : C



Note : The components marked with a dot (•) are parts of layer 1.

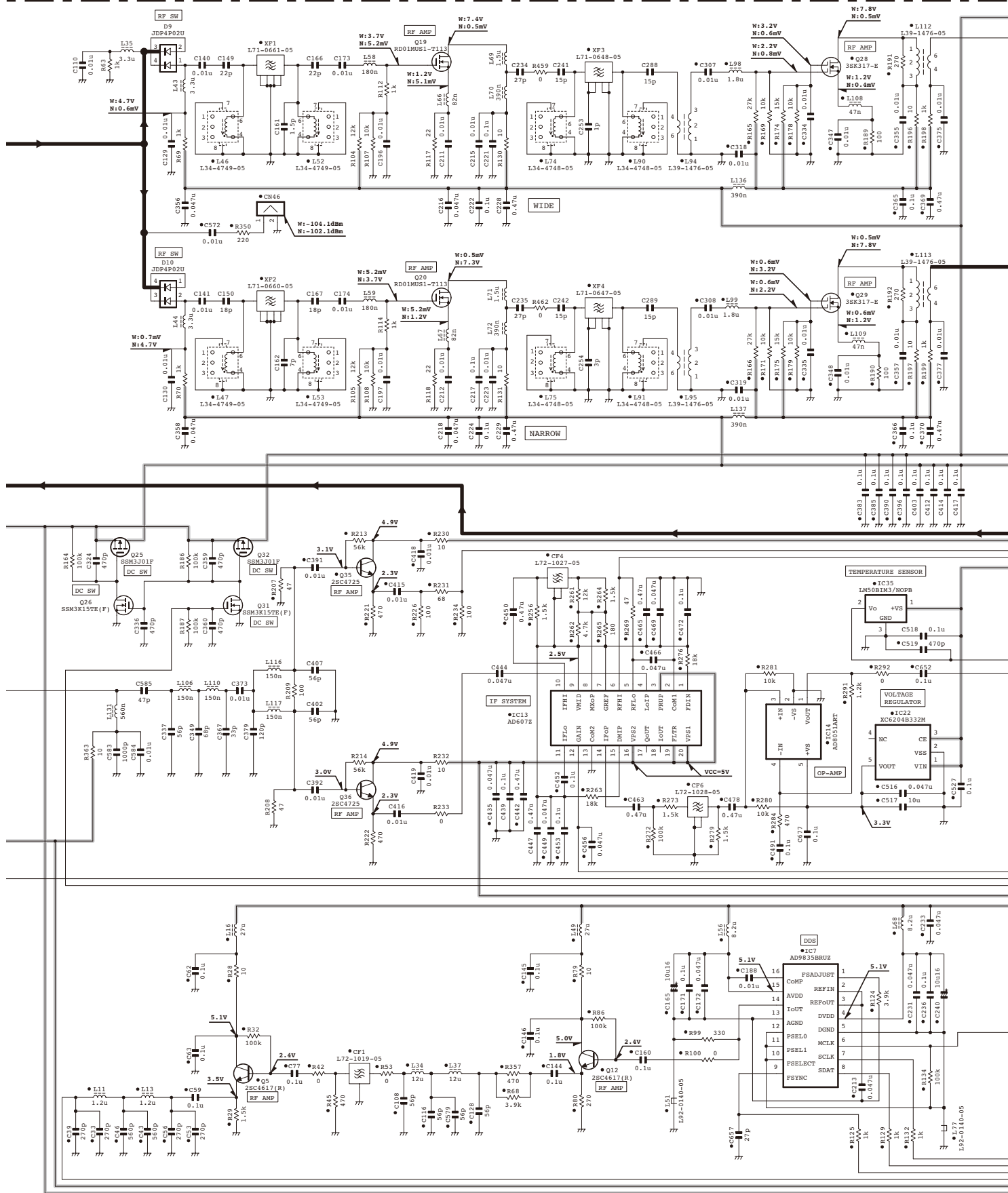
NXR-800H SCHEMATIC DIAGRAM / 原理图

RX UNIT(X55-3102-72):C2



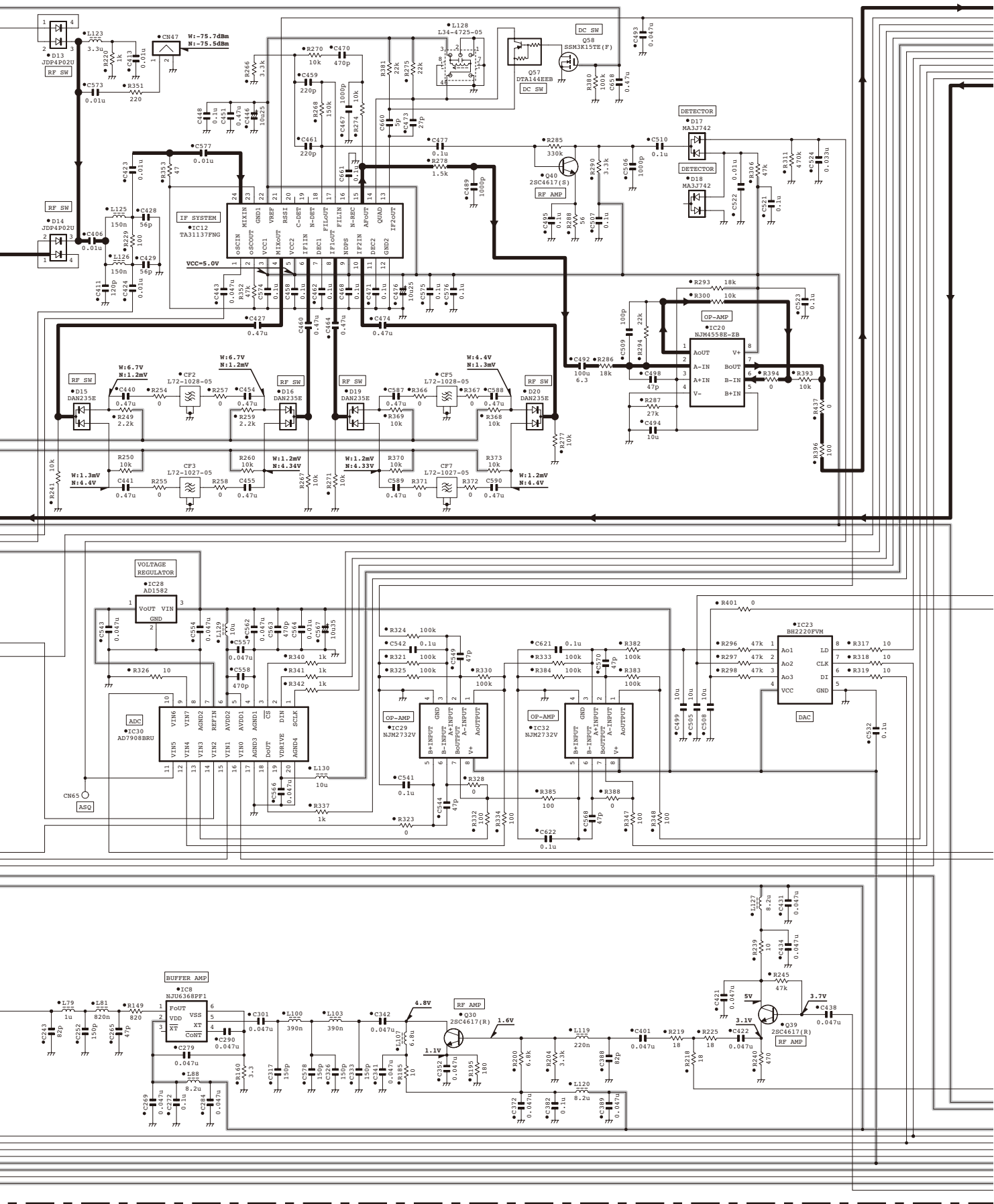
SCHEMATIC DIAGRAM / 原理图 NXR-800H

RX UNIT (X55-3102-72) : C2



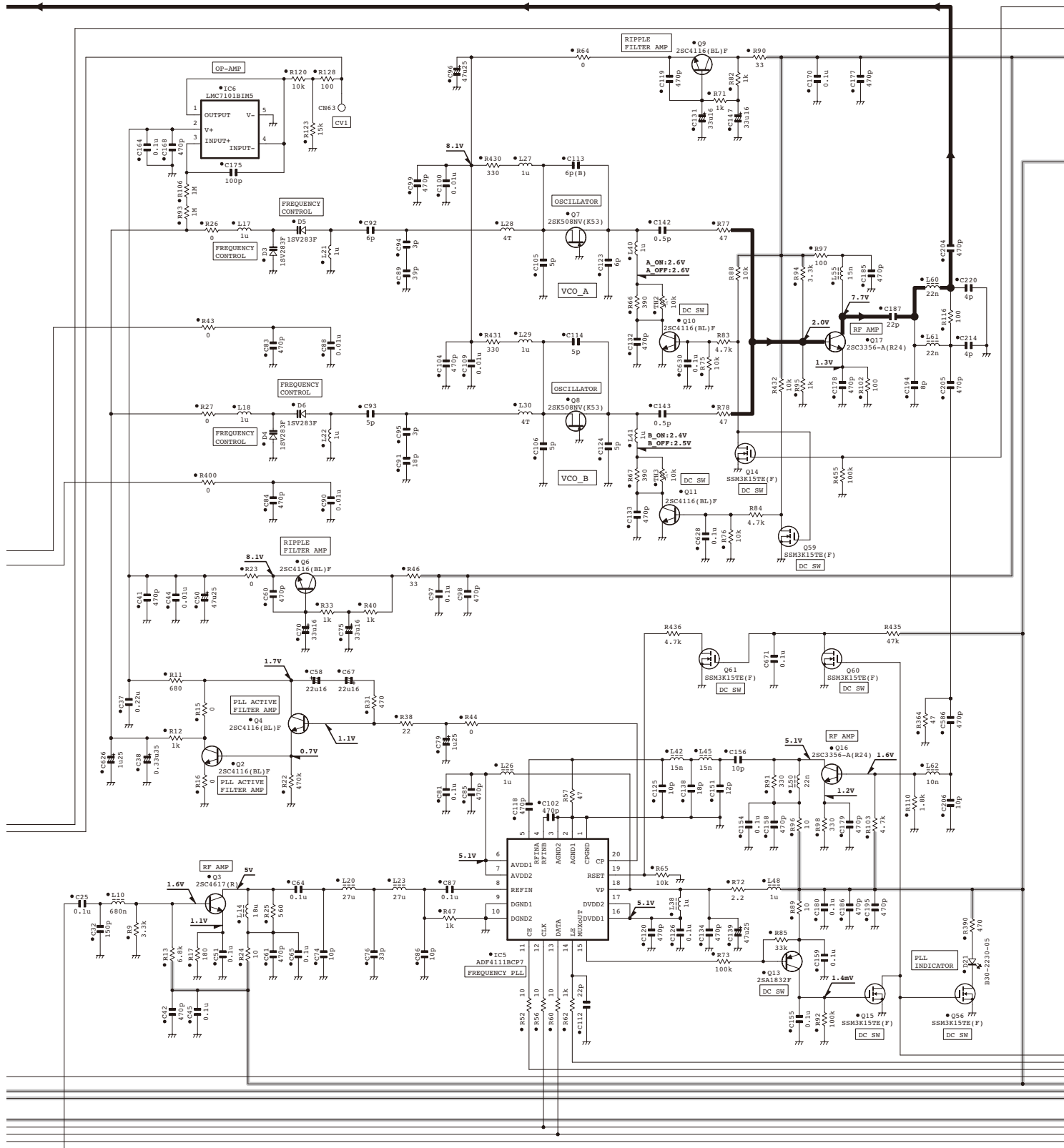
NXR-800H SCHEMATIC DIAGRAM / 原理图

RX UNIT (X55-3102-72) : C2



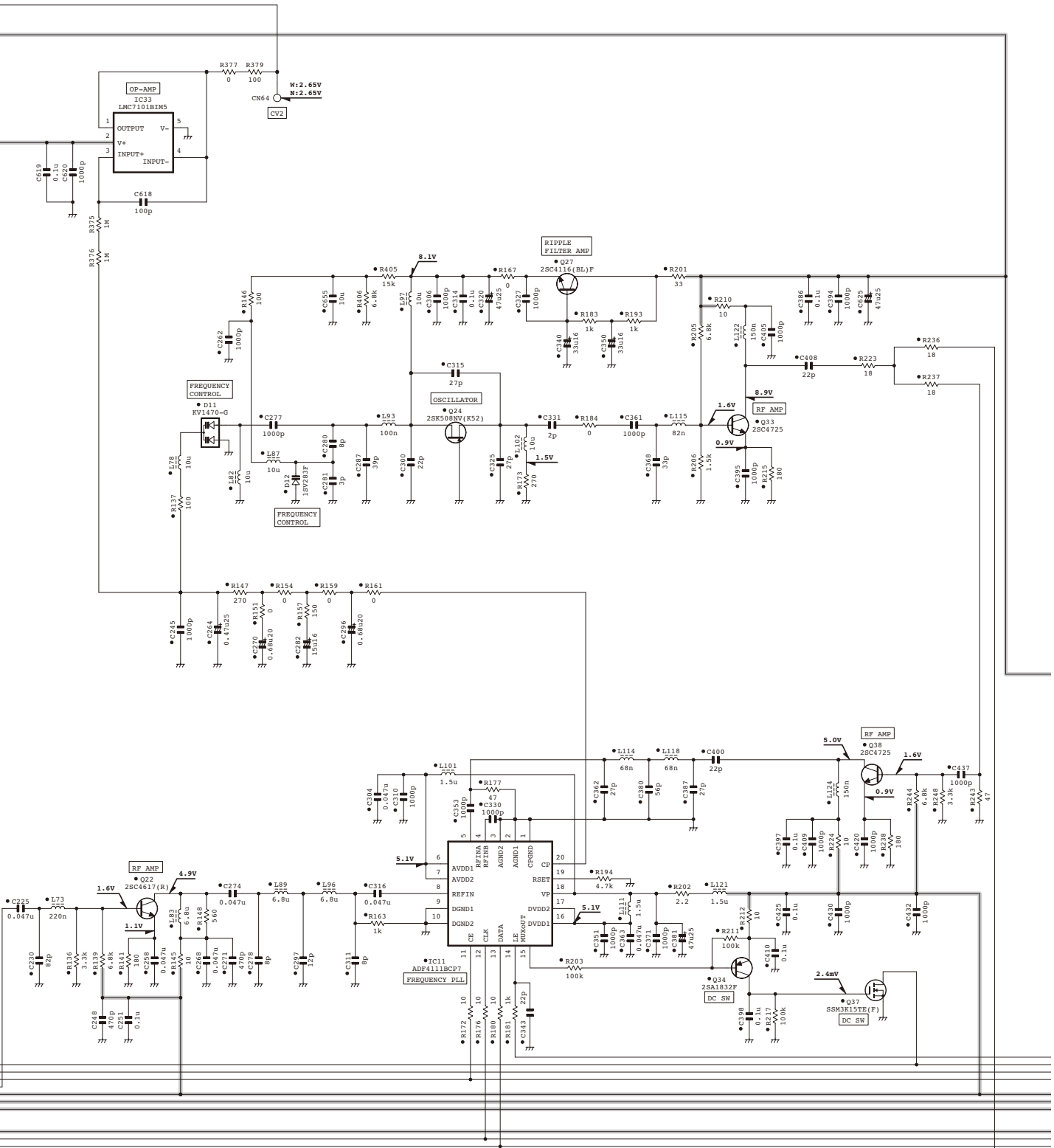
SCHEMATIC DIAGRAM / 原理图 NXR-800H

RX UNIT (X55-3102-72) : C2



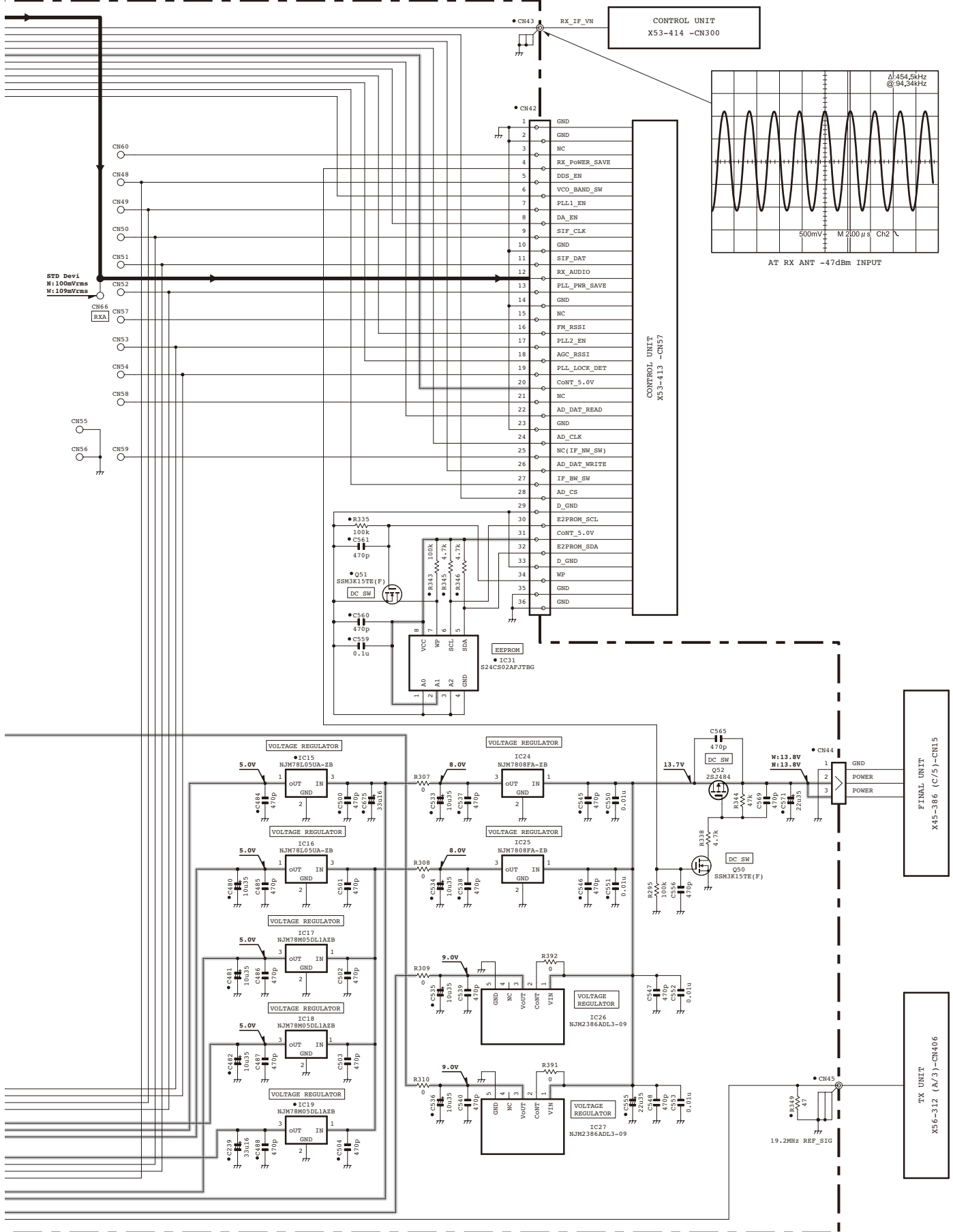
NXR-800H SCHEMATIC DIAGRAM / 原理图

RX UNIT (X55-3102-72) : C2



SCHEMATIC DIAGRAM / 原理图 NXR-800H

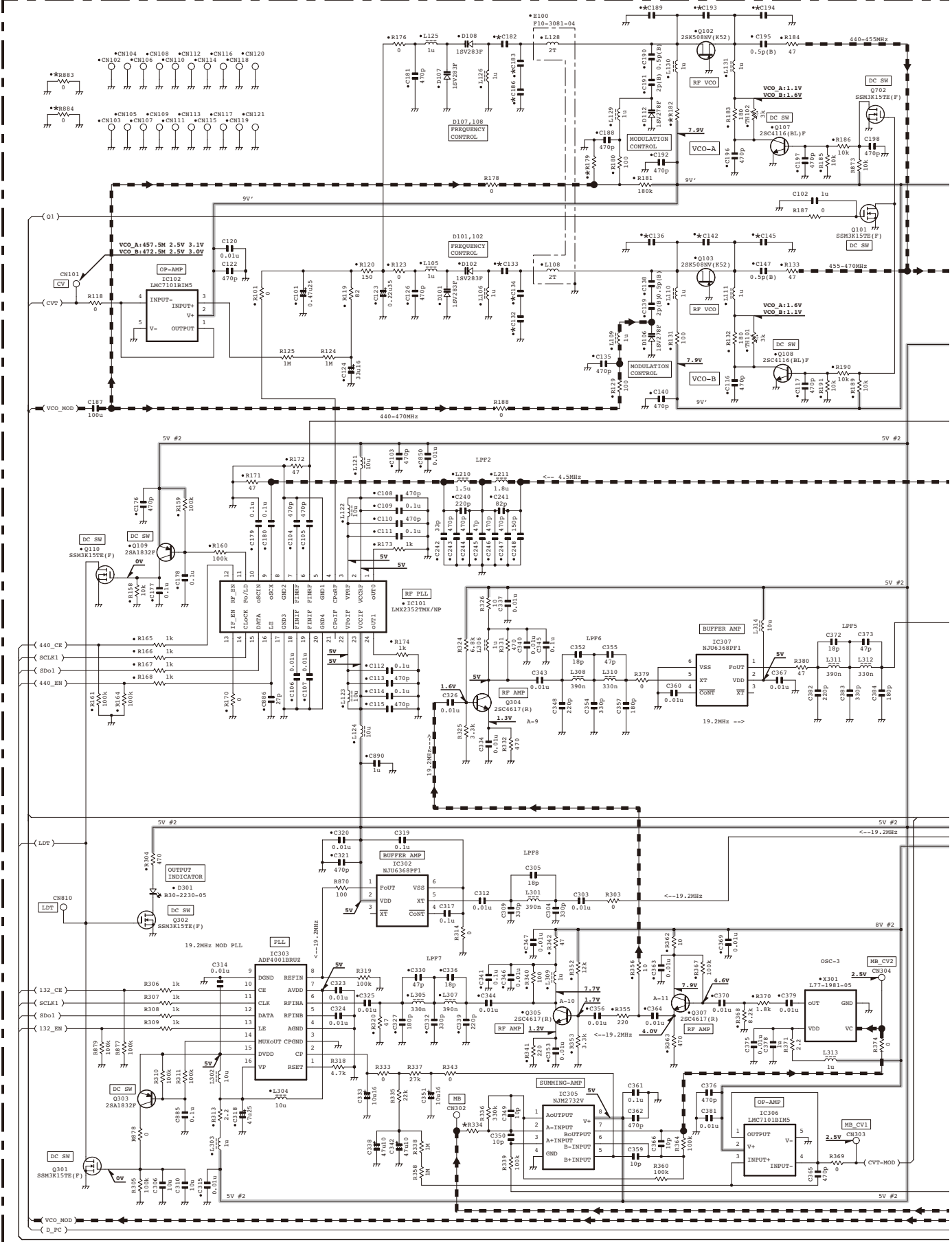
RX UNIT (X55-3102-72) : C2



Note : The components marked with a dot (•) are parts of layer 1.

NXR-800H SCHEMATIC DIAGRAM / 原理图

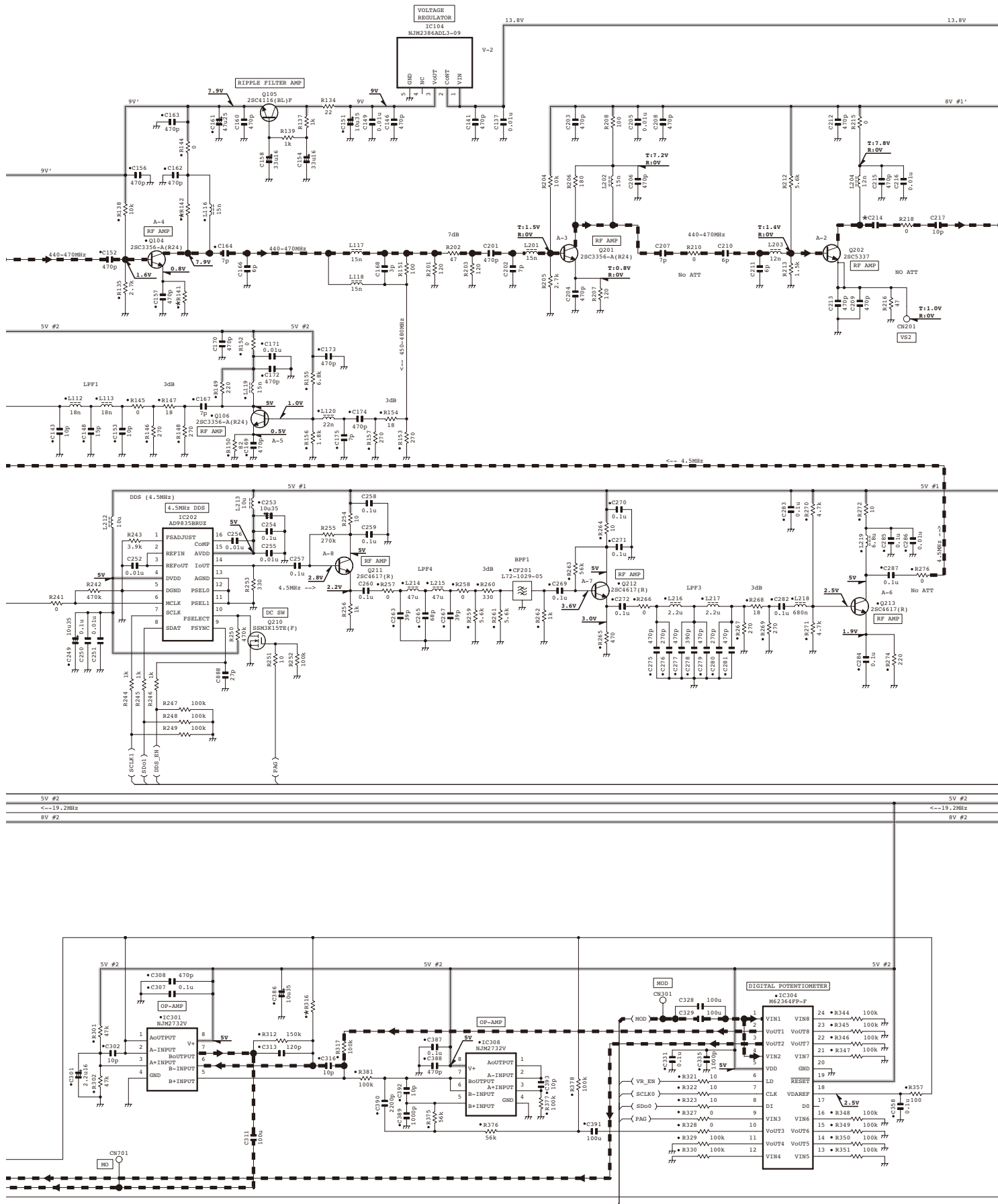
TX UNIT (X56-312X-XX) (A/3)



	C132	C133	C134	C136	C142	C145	C182	C183	C186	C189	C193	C194	R179	R182	R334	R883	R884	
0-12	C2	8p	10p	27p	8p	12p	12p	22p	12p	9p	12p	12p	220k	150	82k	0	NO	
2-71	C	9p	7p	10p	9p	9p	10p	9p	12p	10p	8p	9p	10p	330k	100	100k	NO	0

SCHEMATIC DIAGRAM / 原理图 NXR-800H

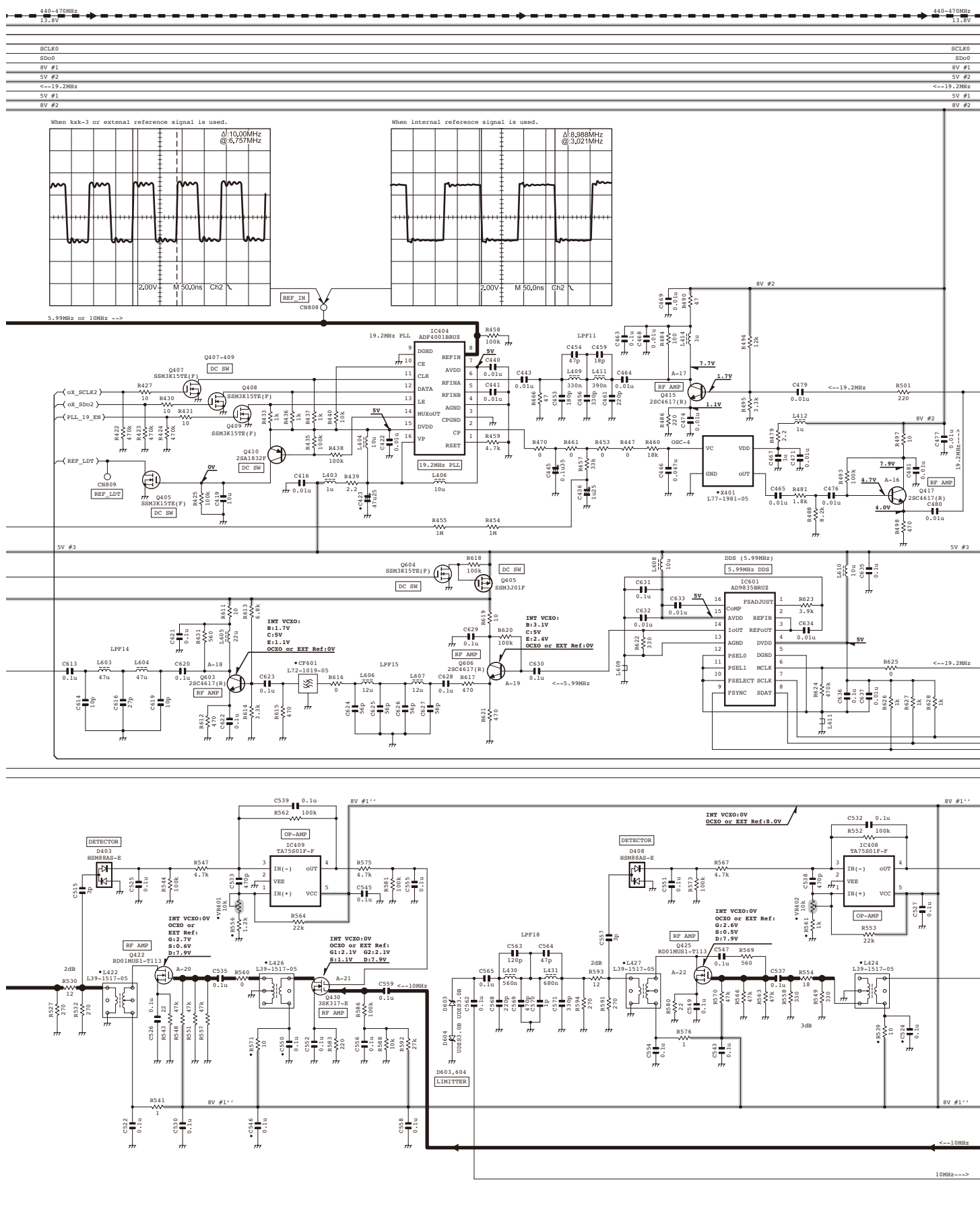
TX UNIT (X56-312X-XX) (A/3)



X56-312X-XX	C214	R141	R142	R316
0-12	C2 470p	82	330	22k
2-71	C 10p	100	220	27k

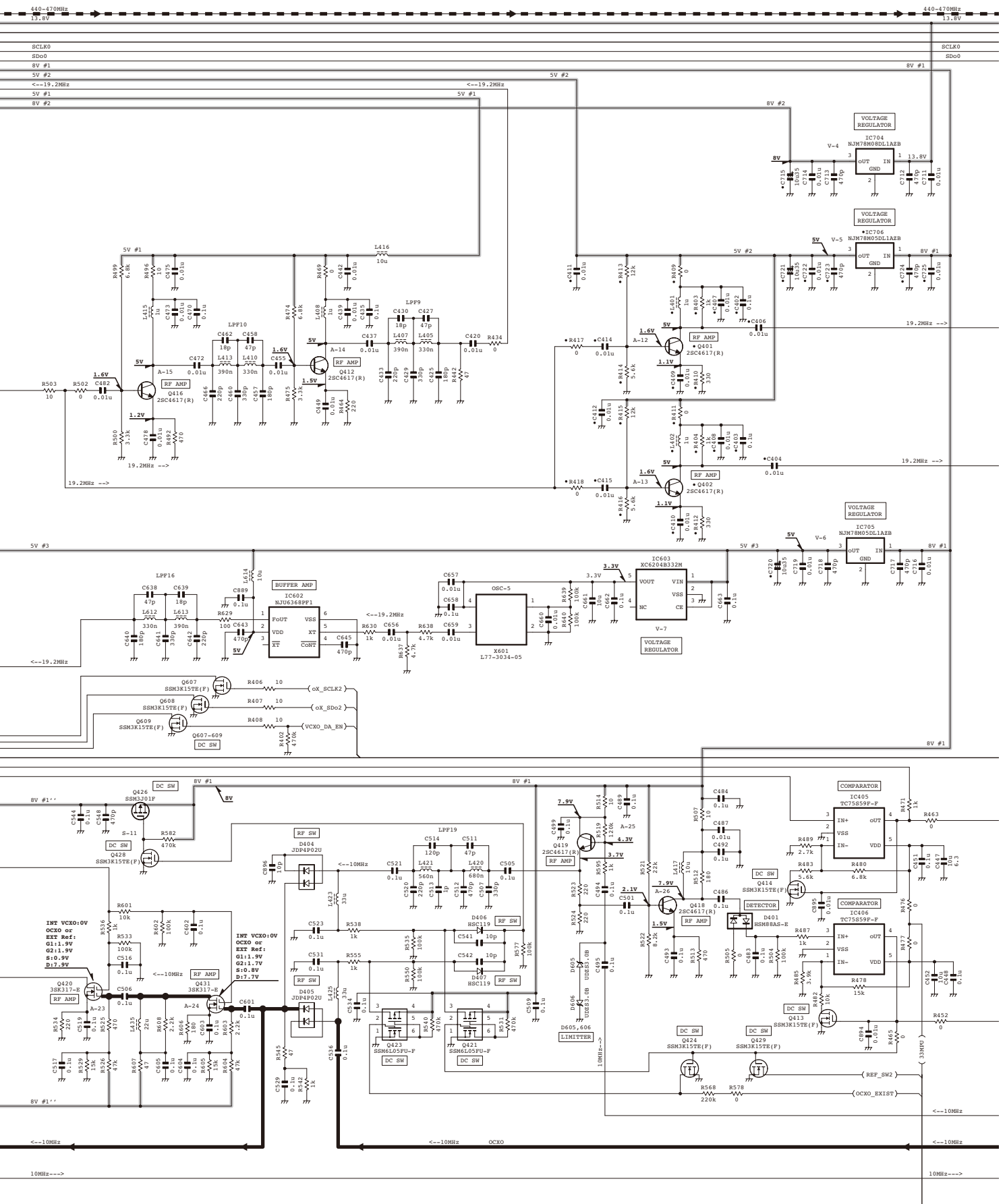
SCHEMATIC DIAGRAM / 原理图 NXR-800H

TX UNIT (X56-312X-XX) (A/3)



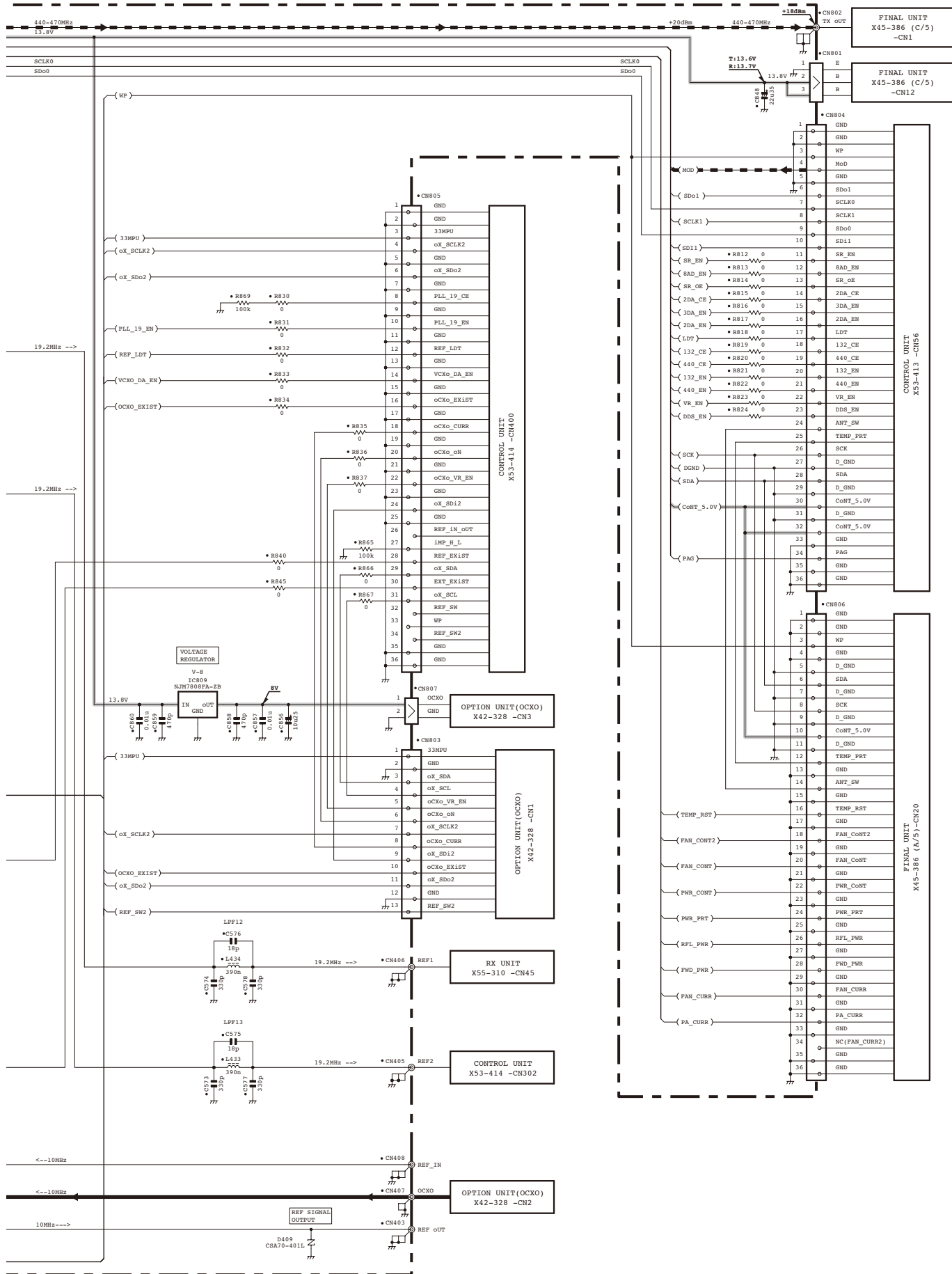
NXR-800H SCHEMATIC DIAGRAM / 原理图

TX UNIT (X56-312-XX) (A/3)



SCHEMATIC DIAGRAM / 原理图 NXR-800H

TX UNIT (X56-312X-XX) (A/3)

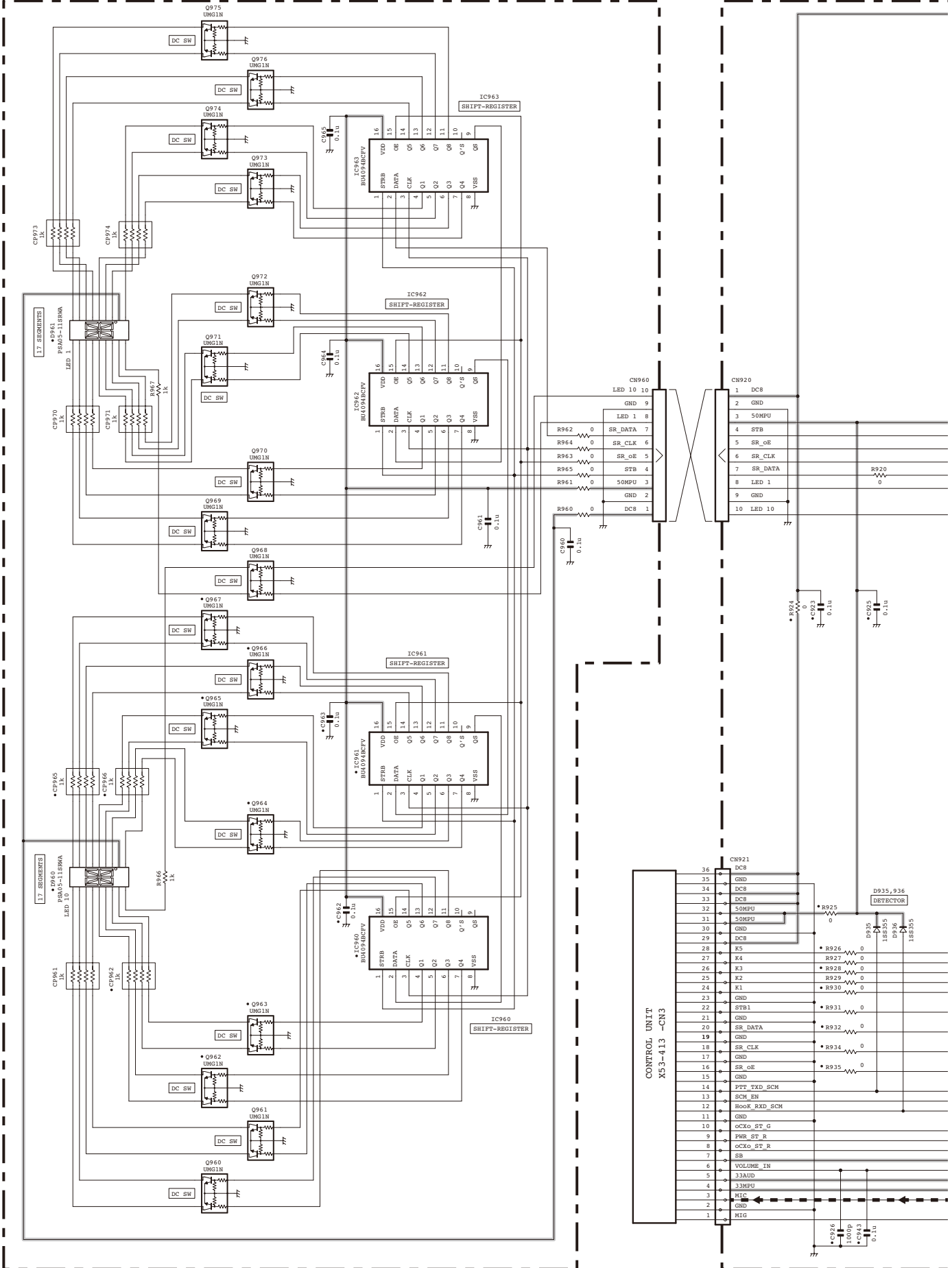


Note : The components marked with a dot (•) are parts of layer 1.

NXR-800H SCHEMATIC DIAGRAM / 原理图

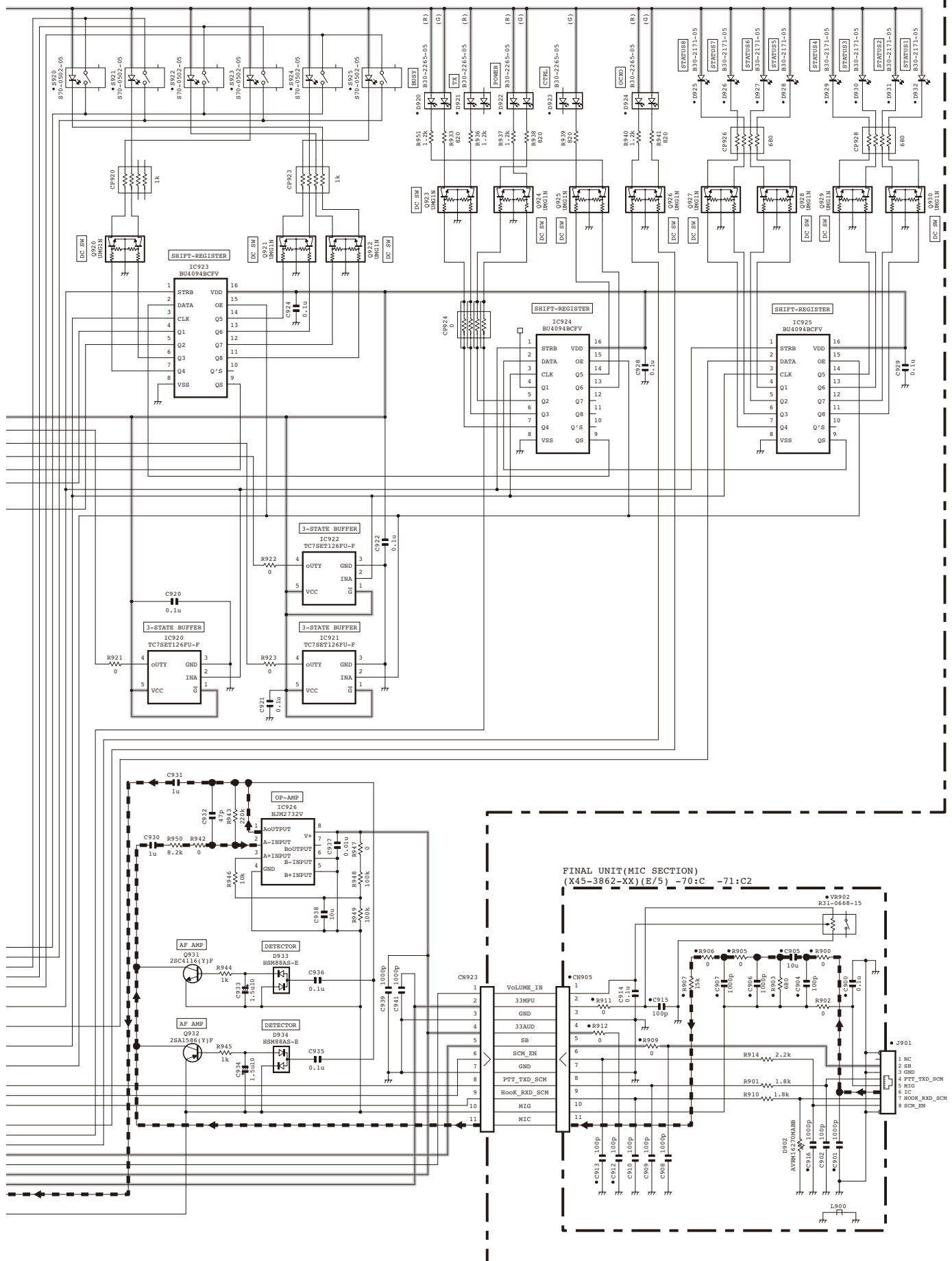
TX UNIT (17SEG)
(X56-312X-XX)(C/3) 0-12:C2 2-71:C

TX UNIT (LED)
(X56-312X-XX)(B/3) 0-12:C2 2-71:C

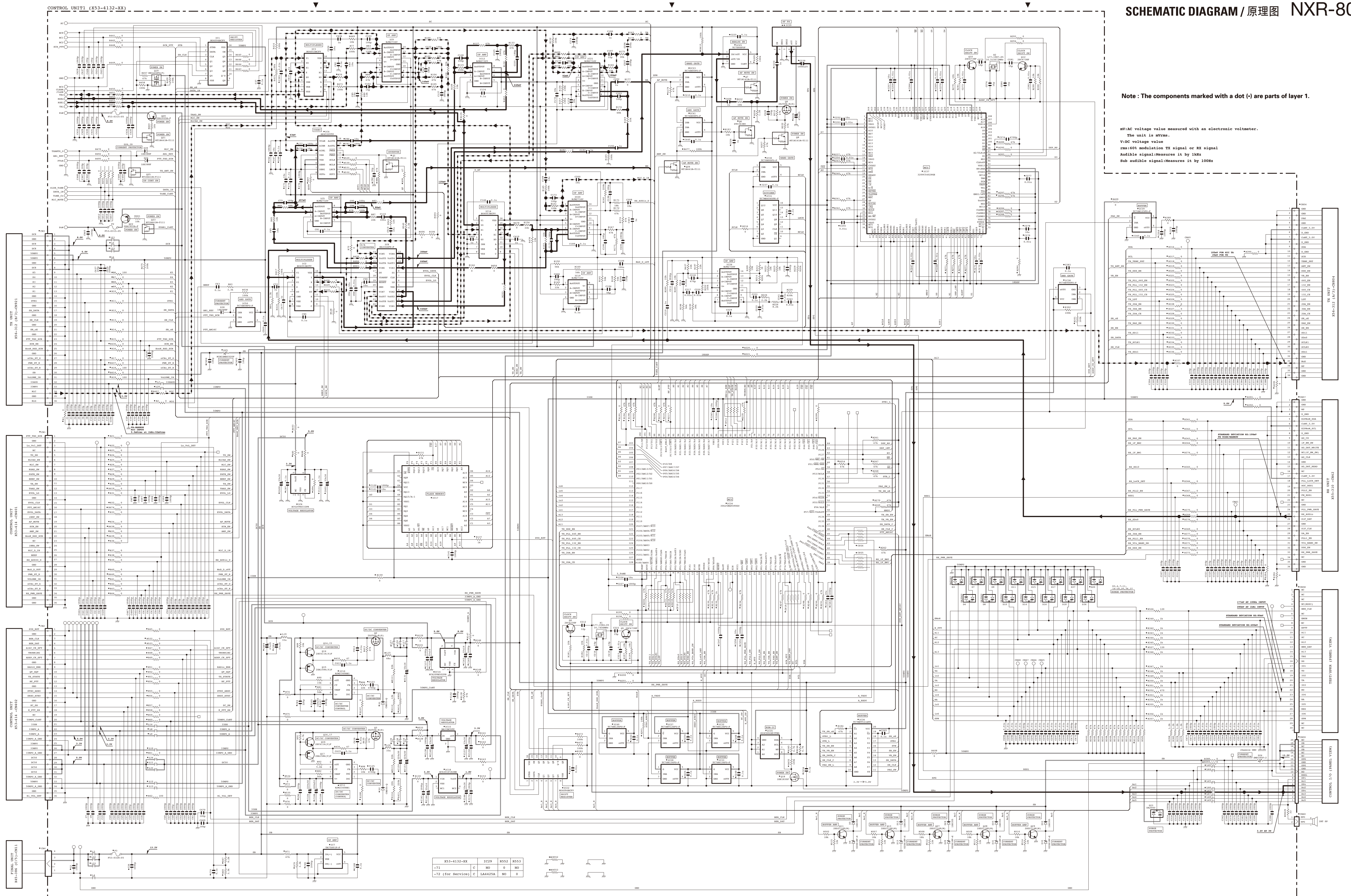


SCHEMATIC DIAGRAM / 原理图 NXR-800H

TX UNIT (LED)
(X56-312-XX) (B/3) 0-12 : C2 2-71 : C

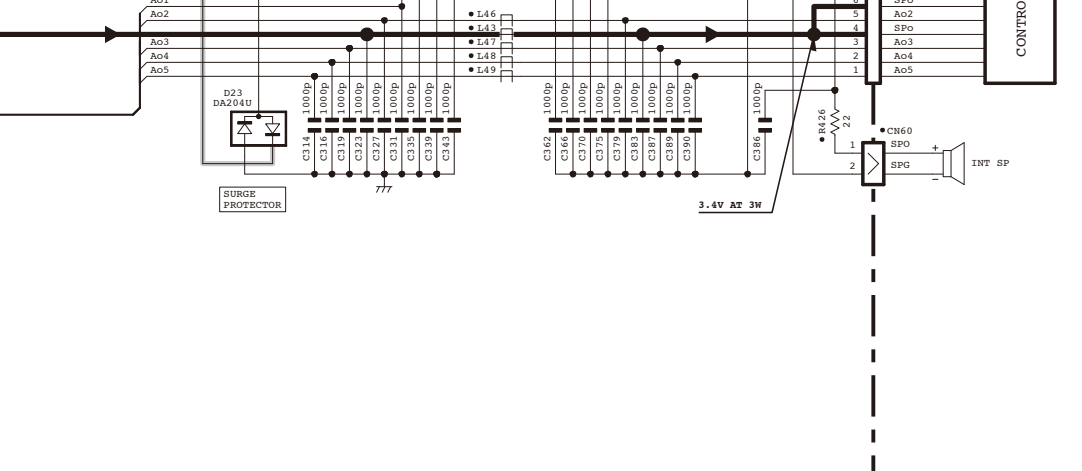
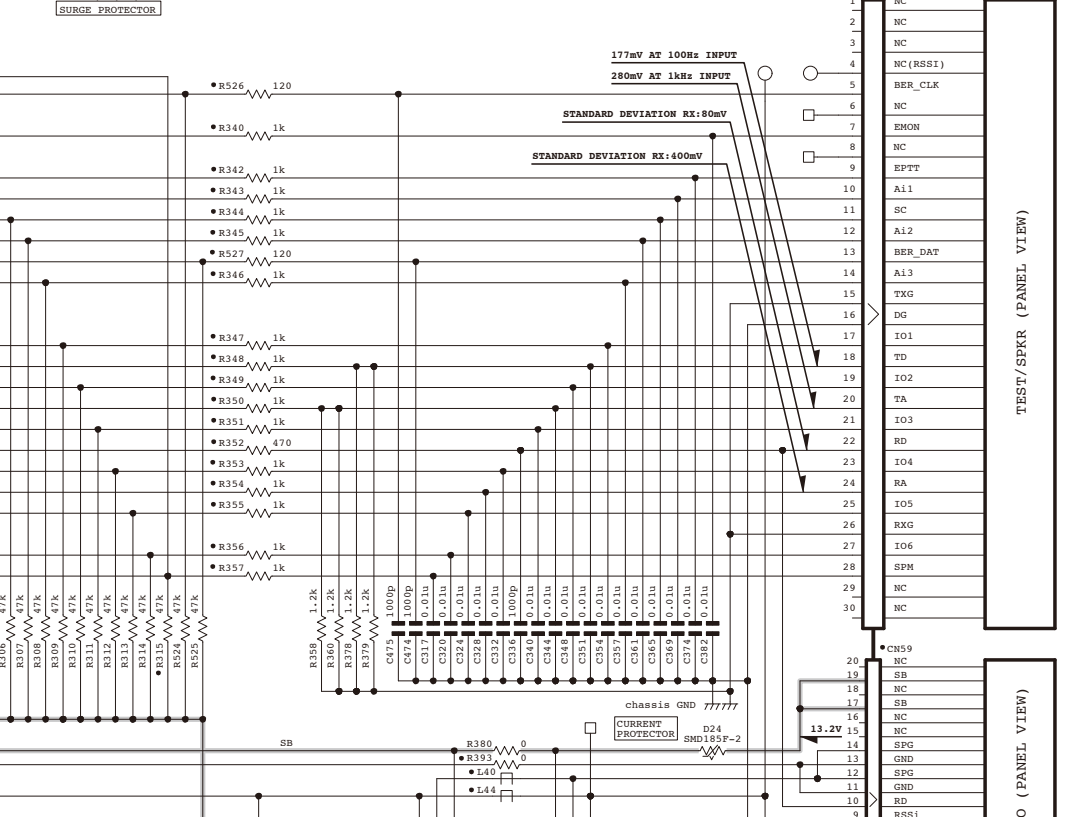
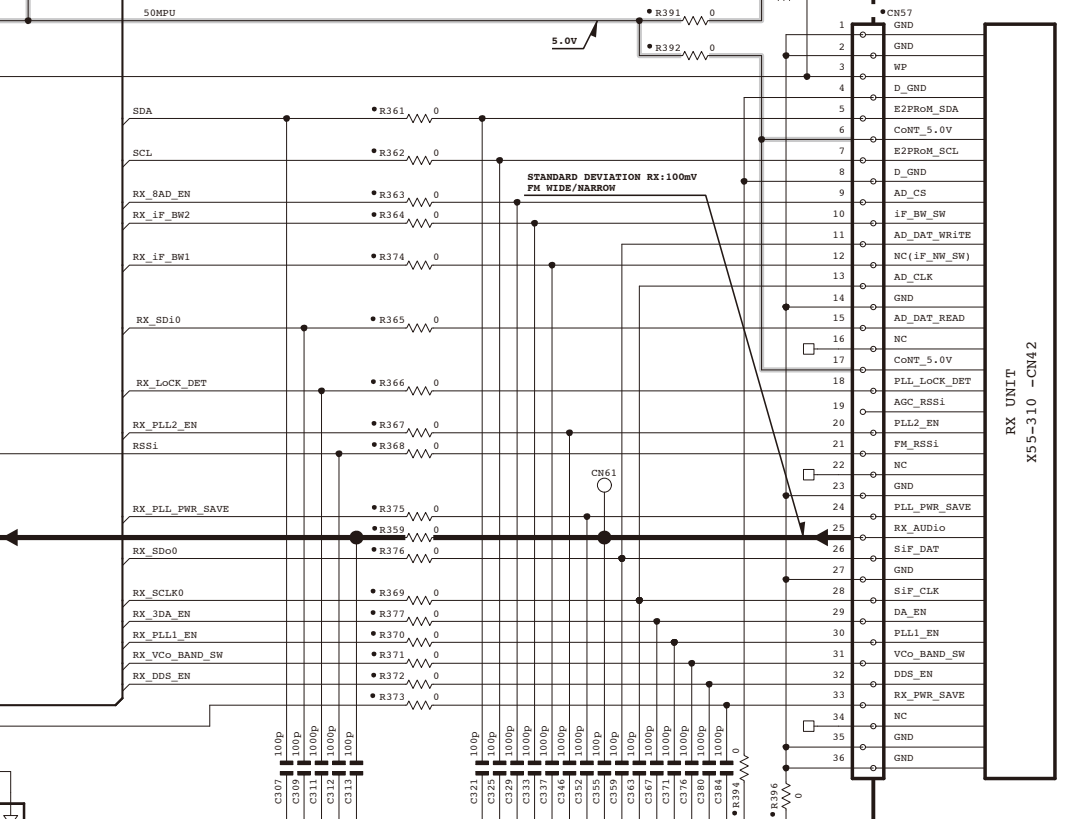
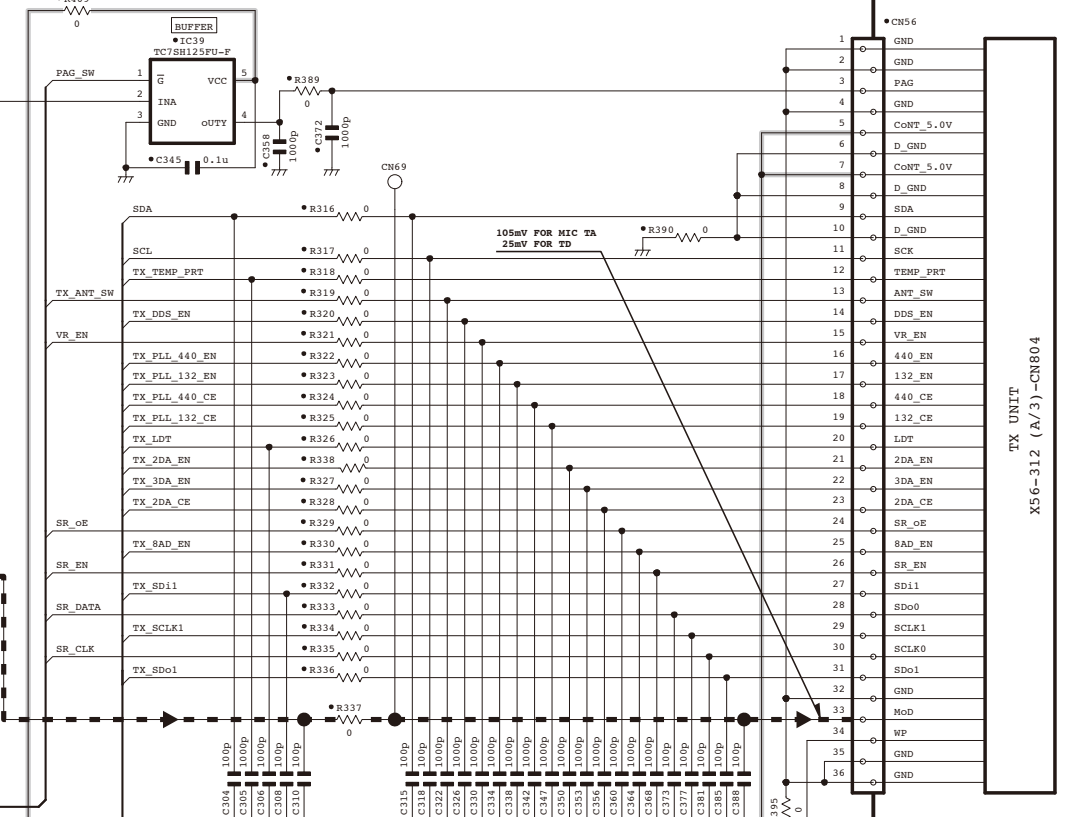
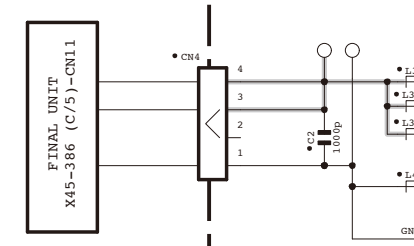
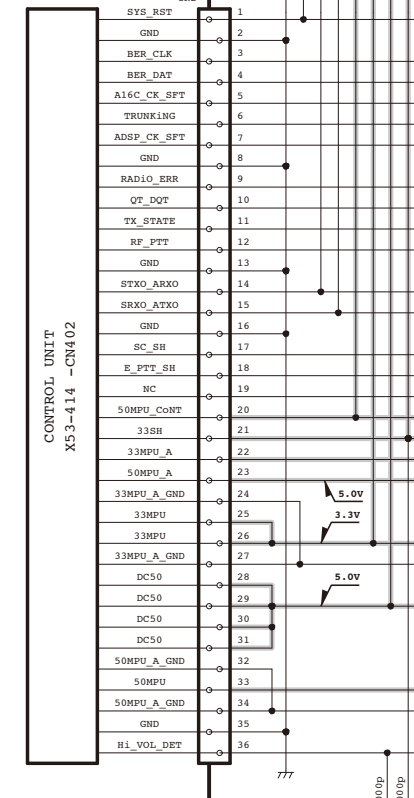
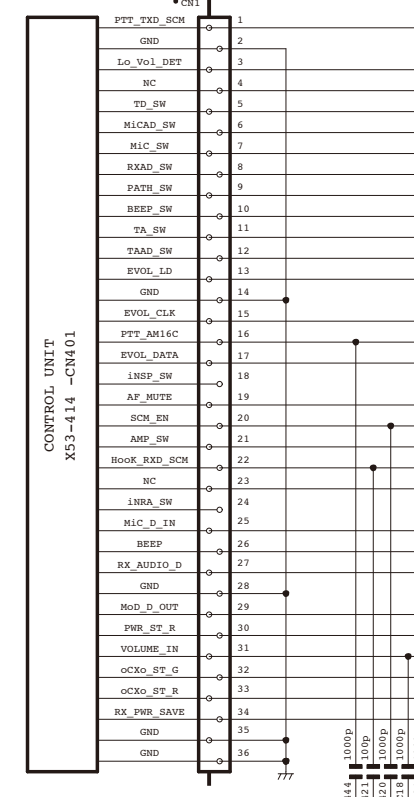
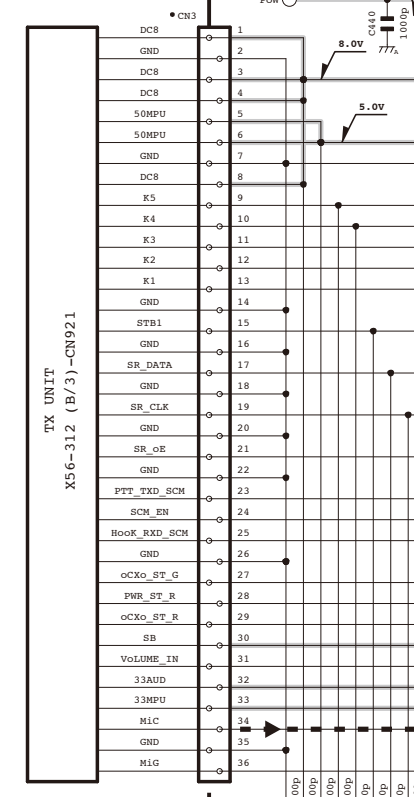


Note : The components marked with a dot (•) are parts of layer 1.

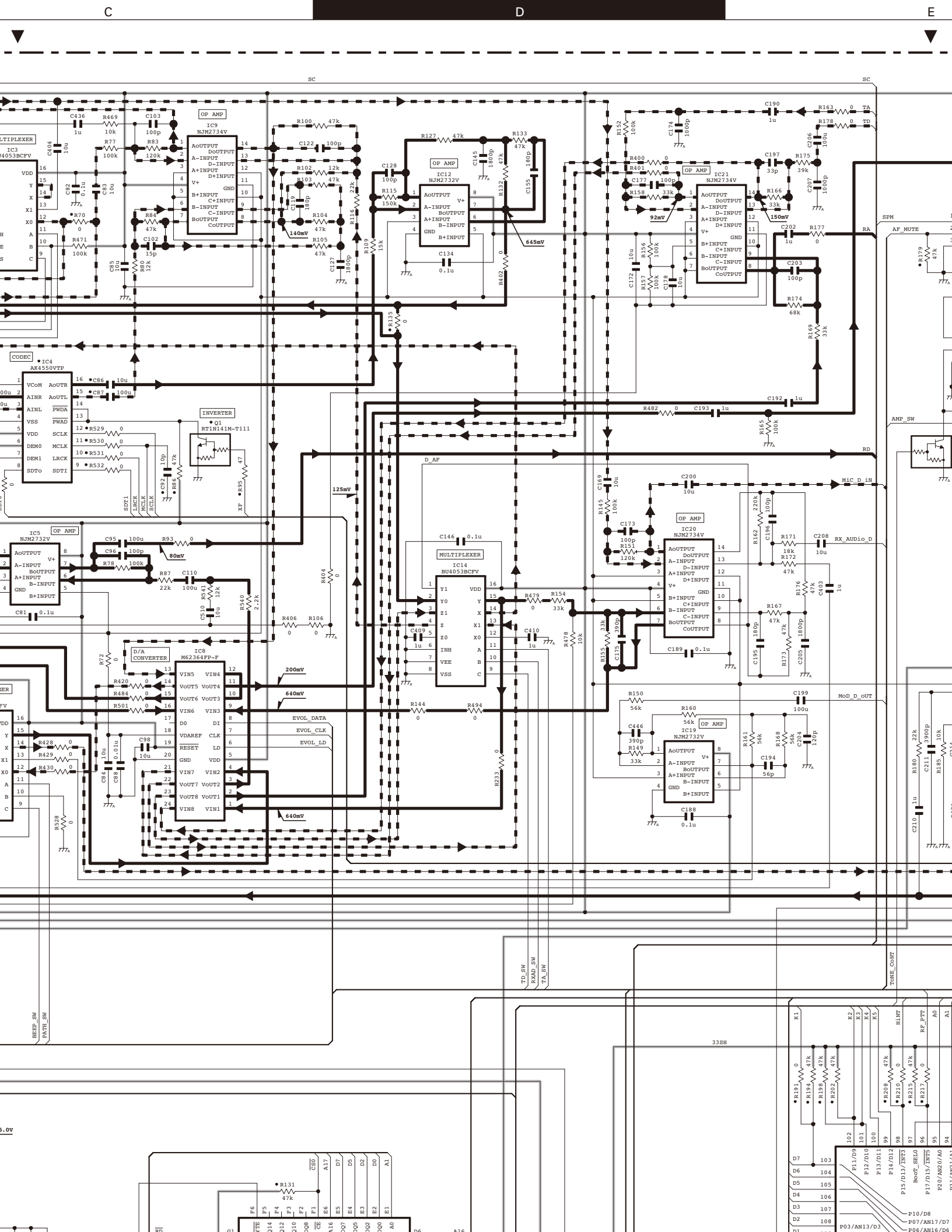


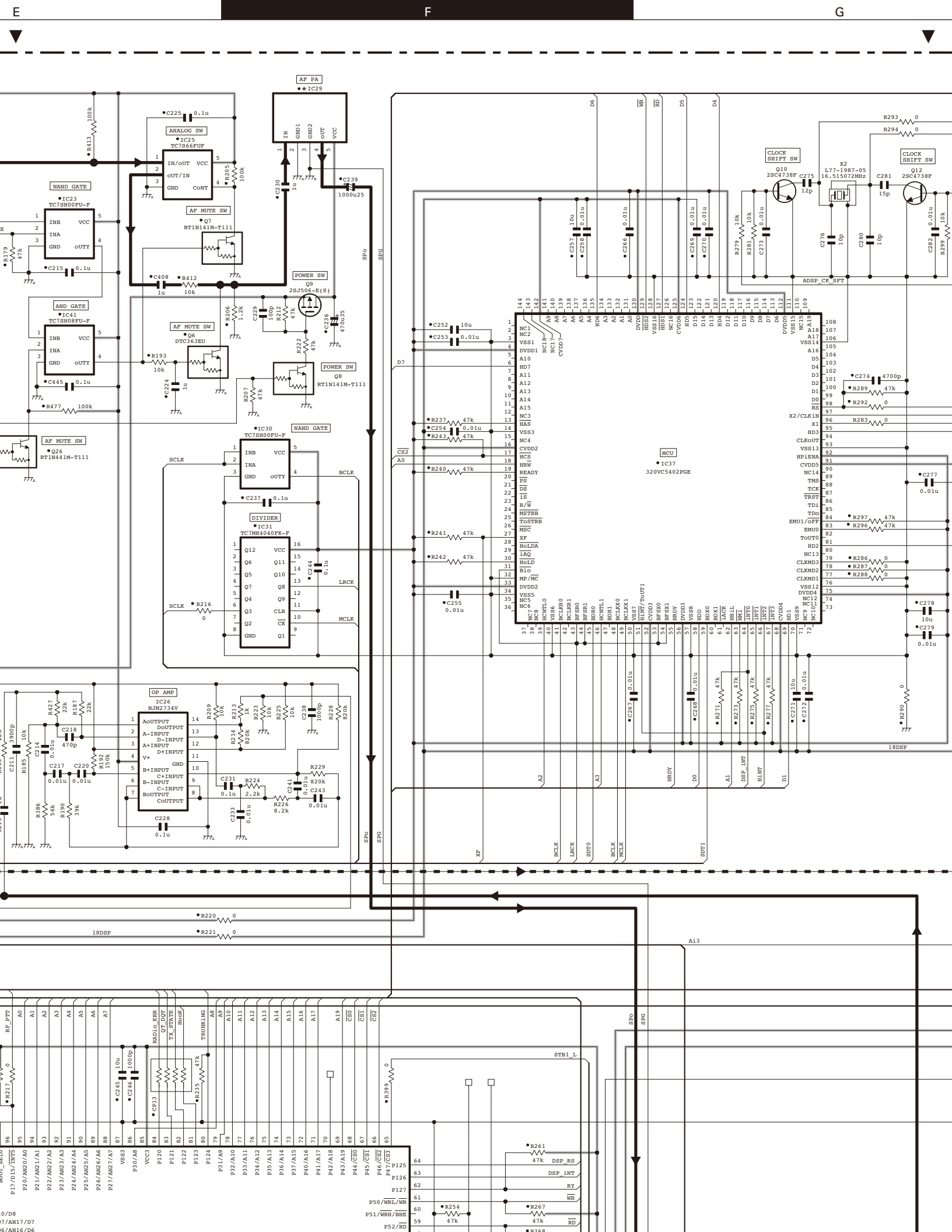
Note : The components marked with a dot (·) are parts of layer 1.

mV/AC voltage value measured with an electronic voltmeter.
The unit is mVrms.
V:DC voltage value
rms:60% modulation TX signal or RX signal
Audible signal:Measures it by 1kHz
Sub audible signal:Measures it by 100Hz



X53-4132-XX	ICP	R552	R553
-71	C	BO	O
-72 (For Service)	C	LA425A	BO O





SCHEMATIC DIAGRAM / 原理图

NXR-800H

Note : The components marked with a dot (•) are parts of layer 1.

mV:AC voltage value measured with an electronic voltmeter.

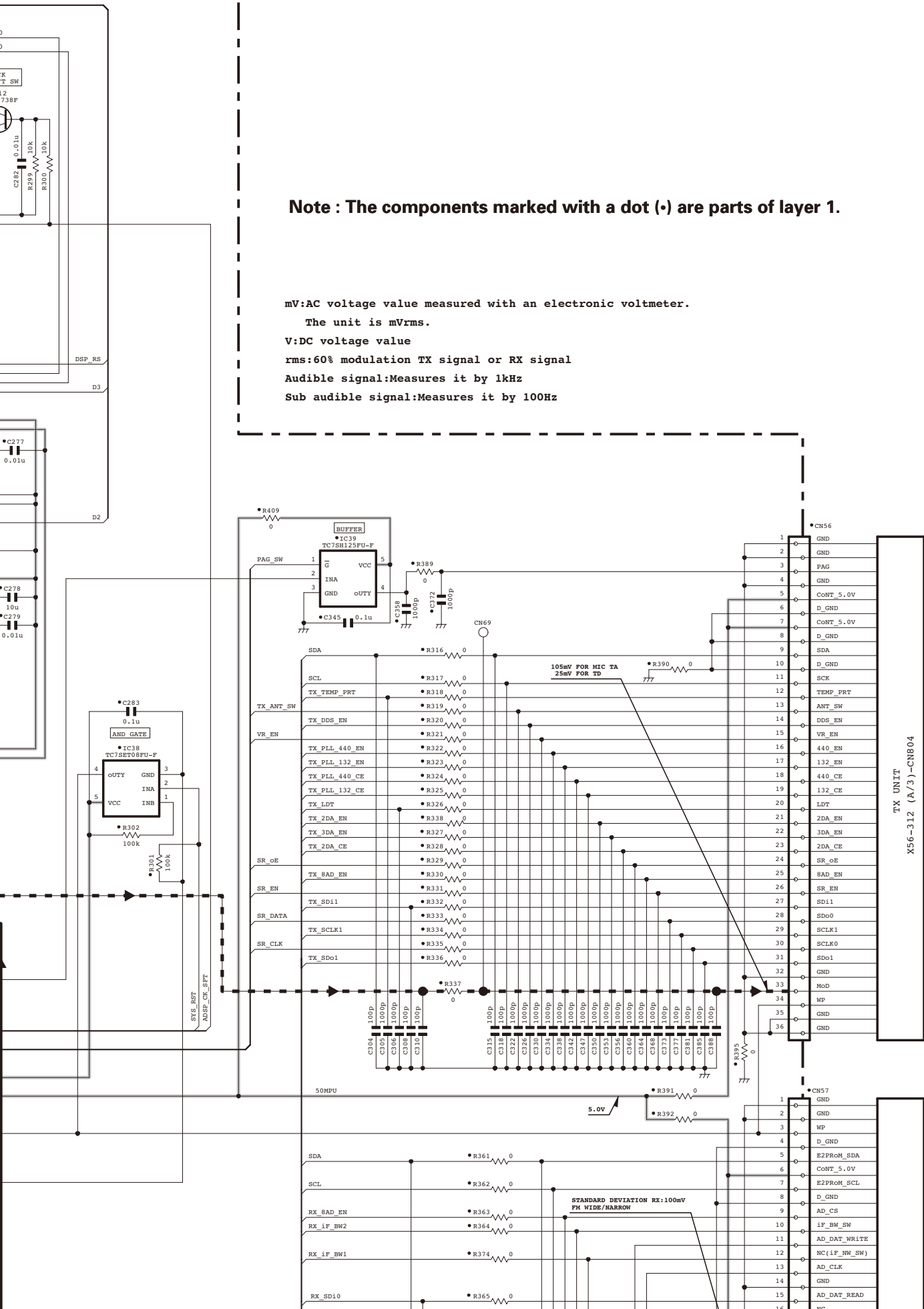
The unit is mVrms.

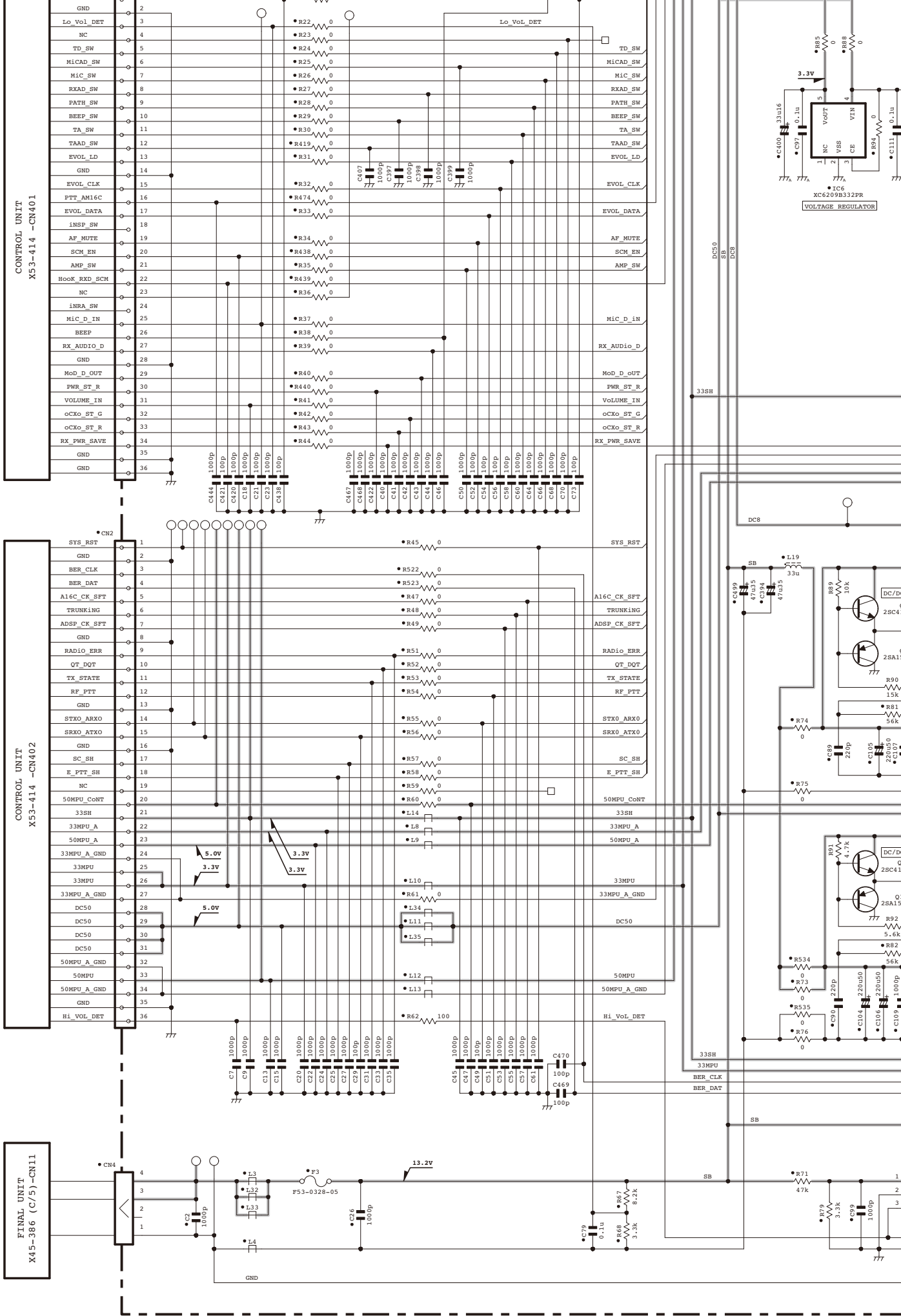
V:DC voltage value

rms:60% modulation TX signal or RX signal

Audible signal:Measures it by kHz

Sub audible signal:Measures it by 100Hz

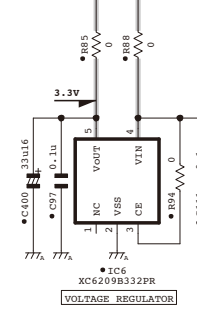




CONTROL UNIT
X53-414 -CN401

CONTROL UNIT
X53-414 -CN402

FINAL UNIT
X45-386 (C/5) -CN11



DC50
SB
DCB

33SH

DC8

SB

R74

R75

33SH

33MPU

DC50

50MPU

50MPU_A_GND

BER_CLK

BER_DAT

SB

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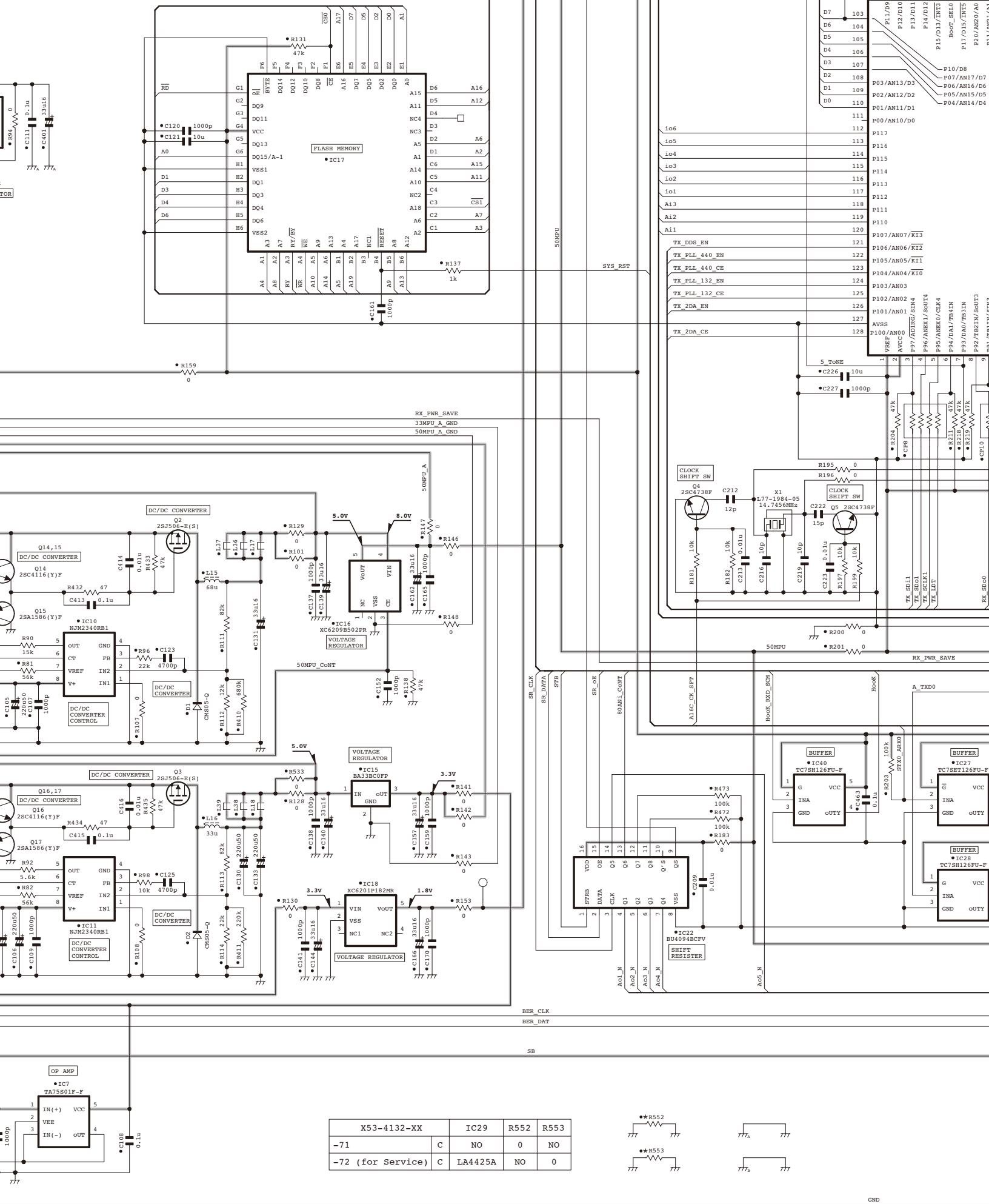
SB

SB

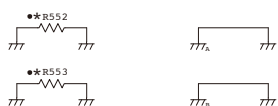
SB

SB

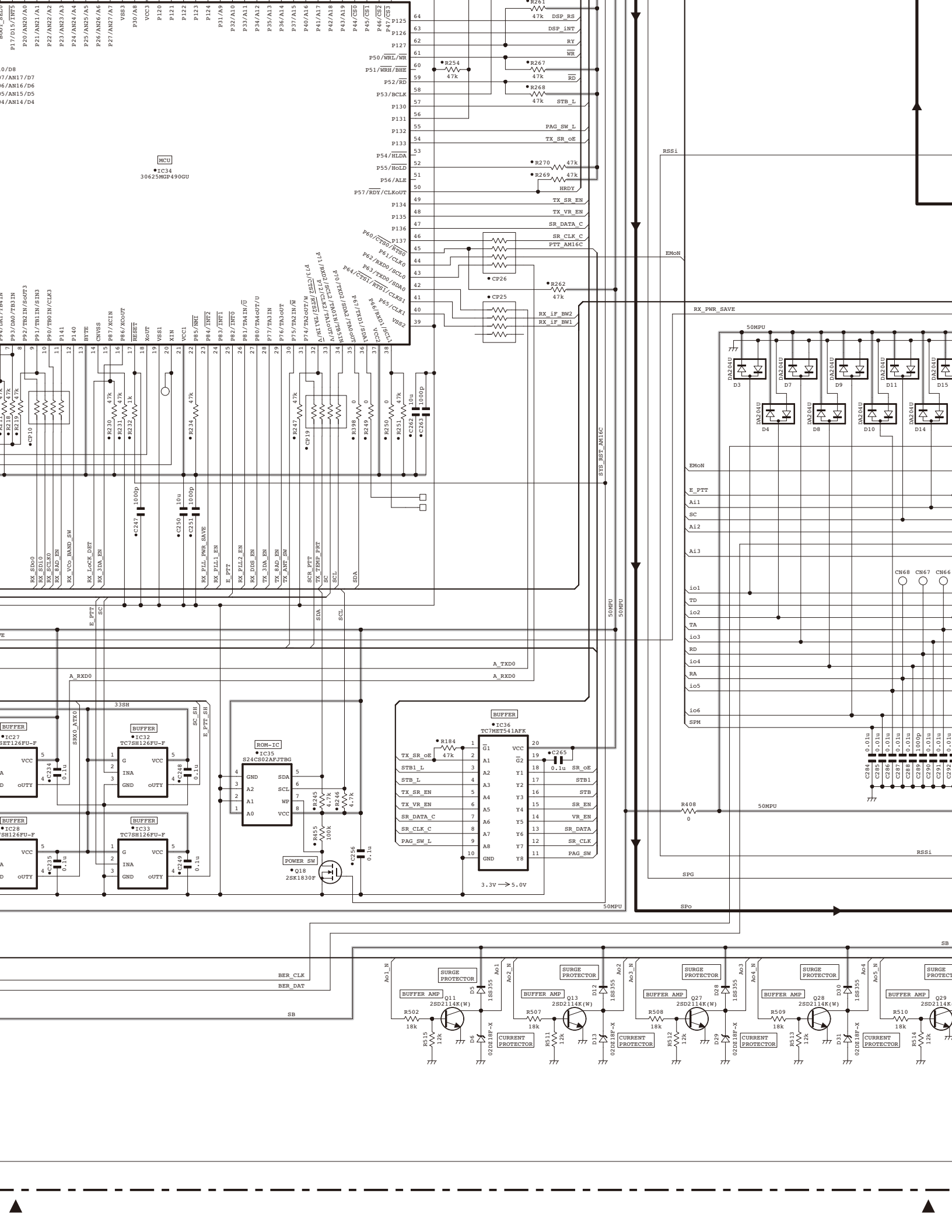
SB



X53-4132-XX	IC29	R552	R553
-71	C	NO	0
-72 (for Service)	C	LA4425A	NO



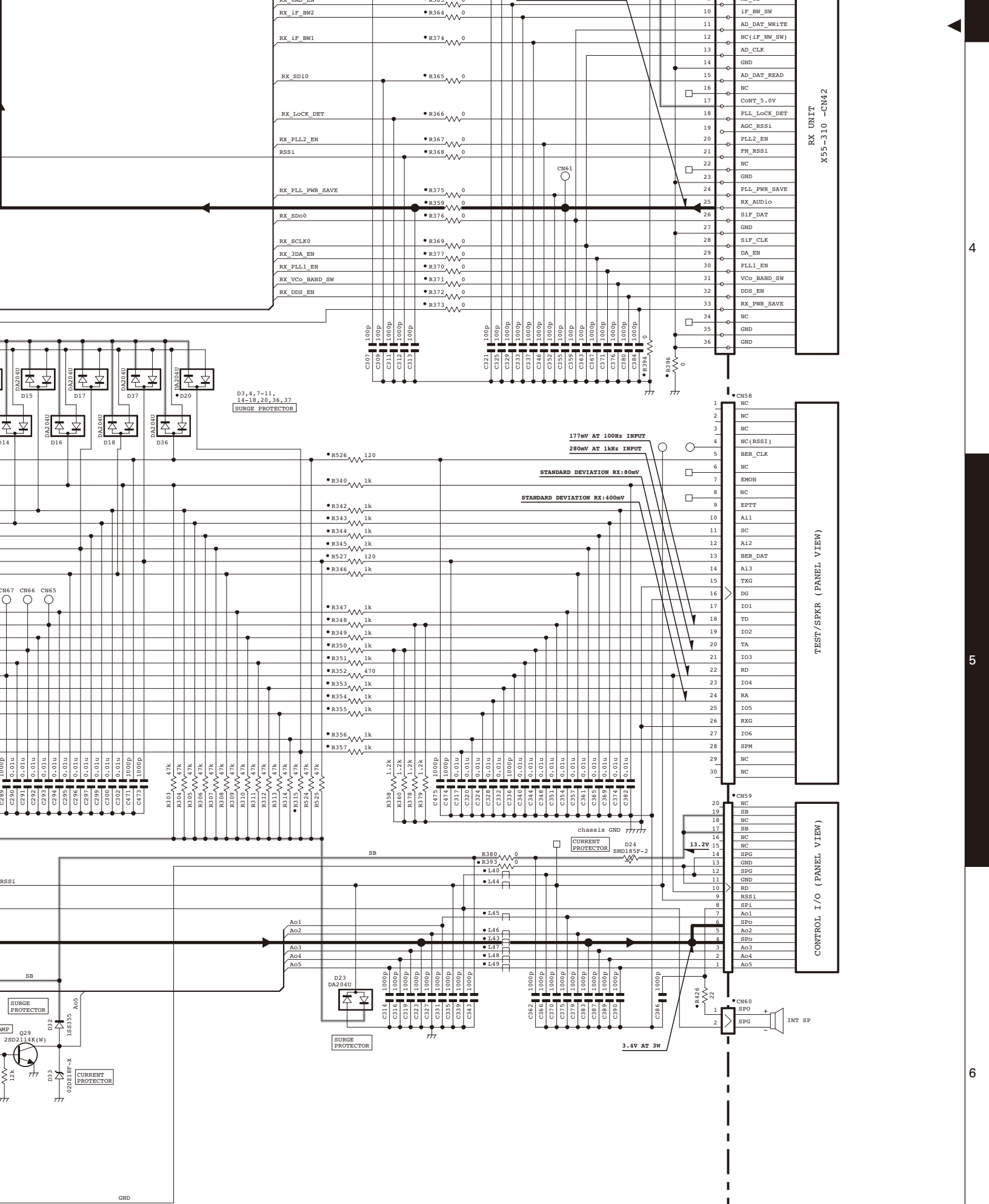
GND



- P17/D15/INT0
- P18/D16/INT1
- P19/D17/INT2
- P20/D18/INT3
- P21/D19/INT4
- P22/D20/INT5
- P23/D21/INT6
- P24/D22/INT7
- P25/D23/INT8
- P26/D24/INT9
- P27/D25/INT10
- P28/D26/INT11
- P29/D27/INT12
- P30/D28/INT13
- P31/D29/INT14
- P32/D30/INT15
- P33/D31/INT16
- P34/D32/INT17
- P35/D33/INT18
- P36/D34/INT19
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MCU
 IC34
 30625MPZ490GU

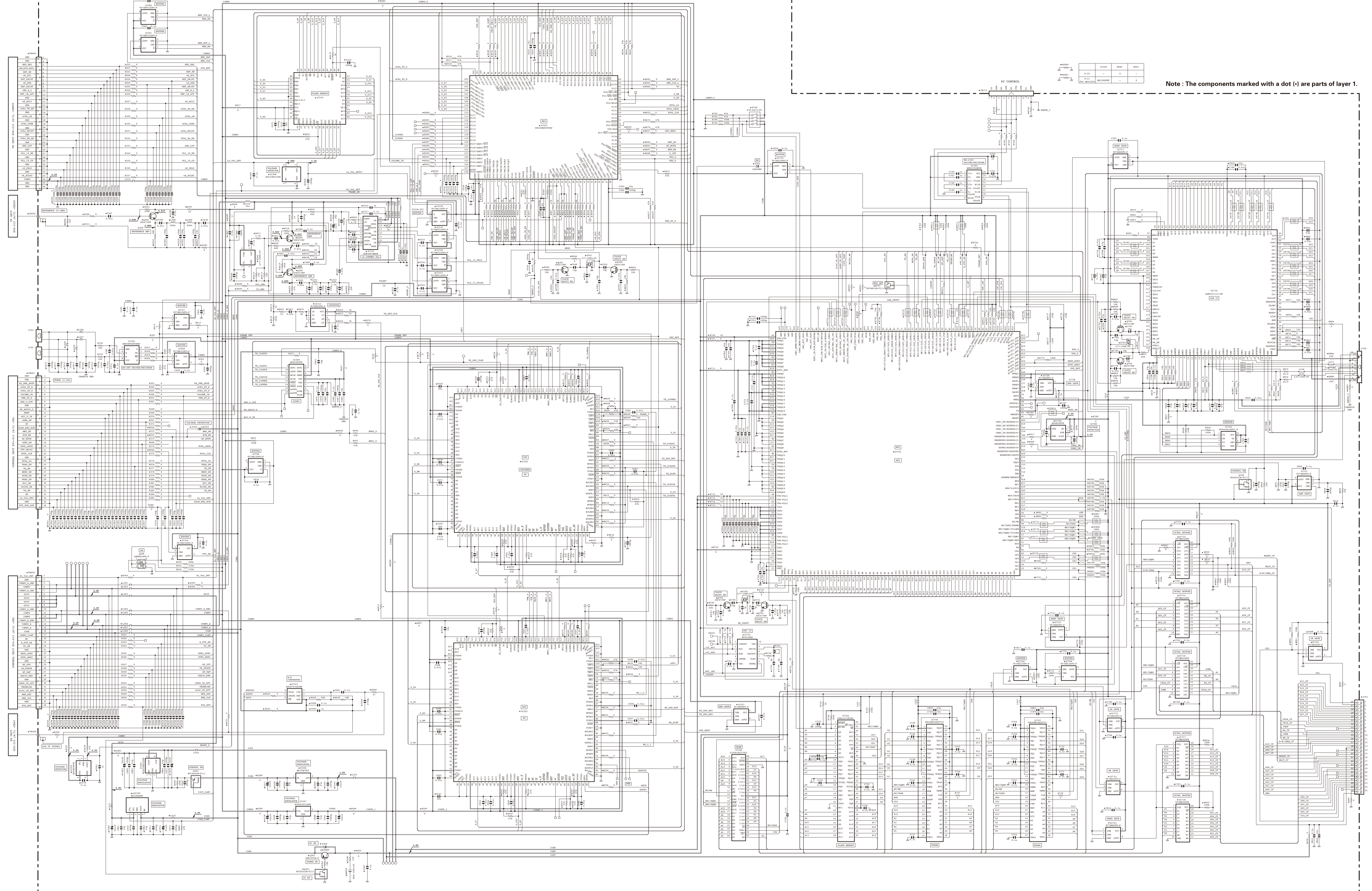
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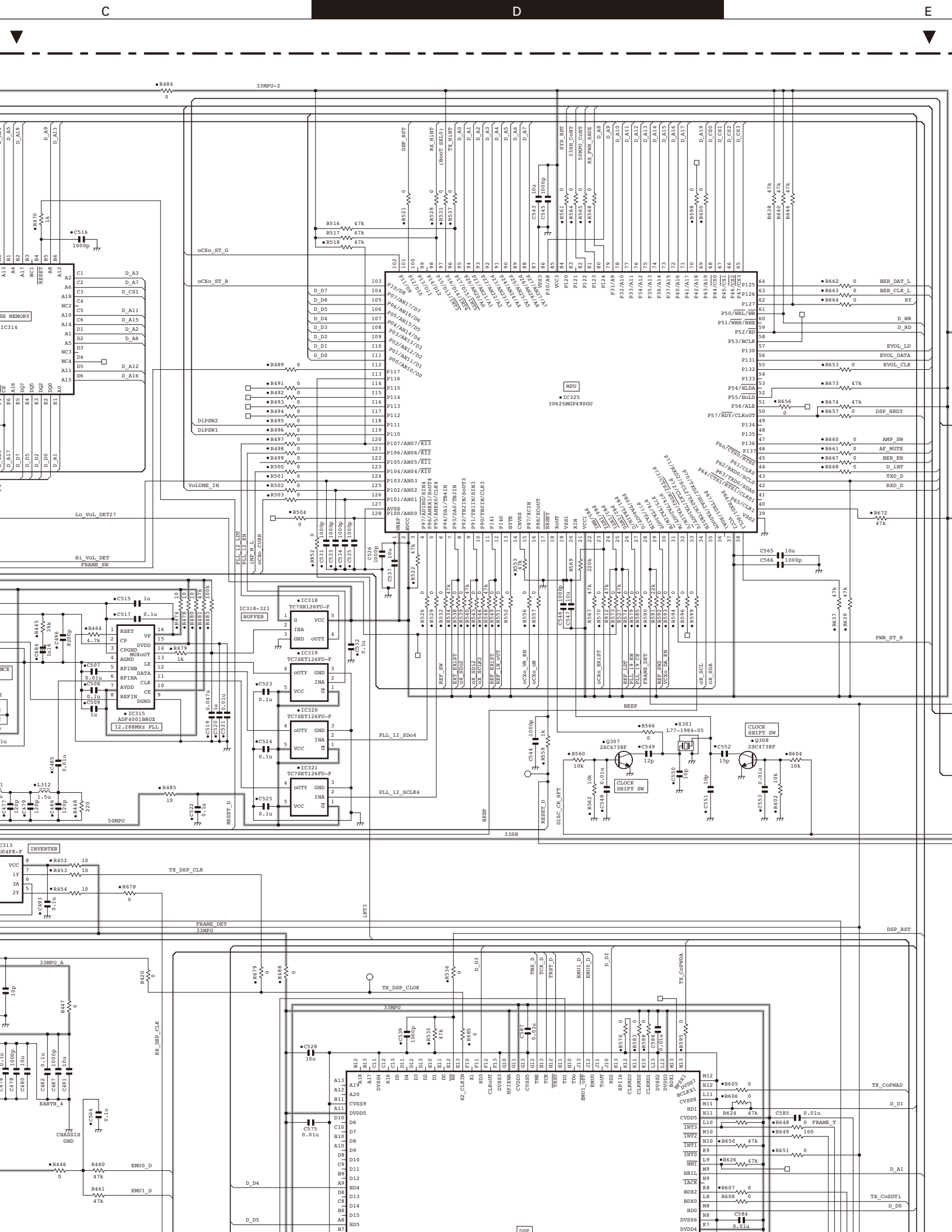
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X55-310 -CN42

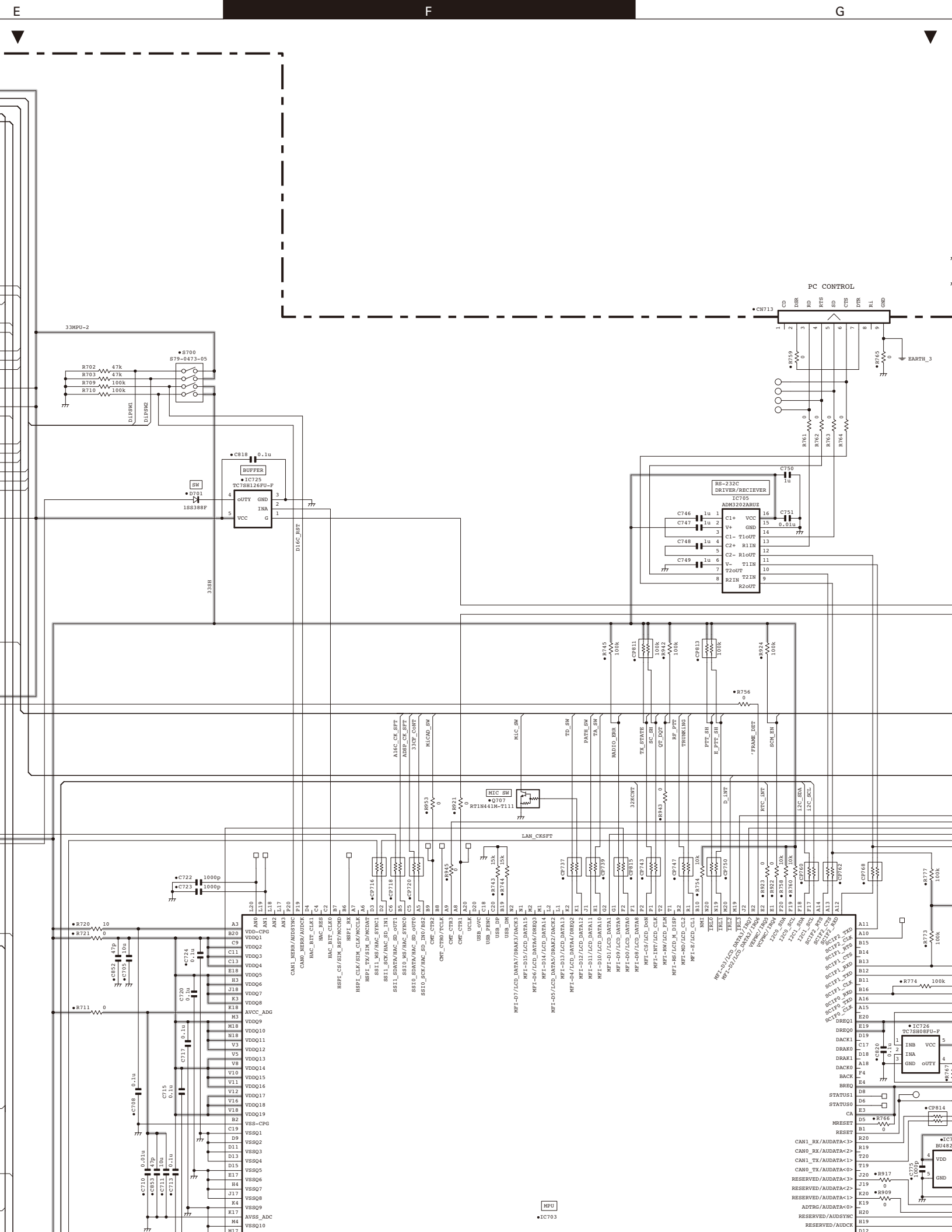
TEST/SPKR (PANEL VIEW)

CONTROL I/O (PANEL VIEW)



Note: The components marked with a dot (•) are parts of layer 1.



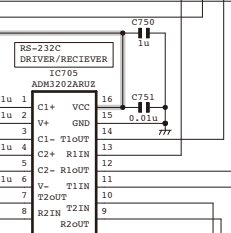
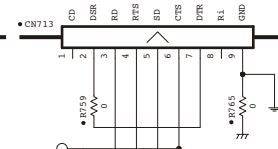


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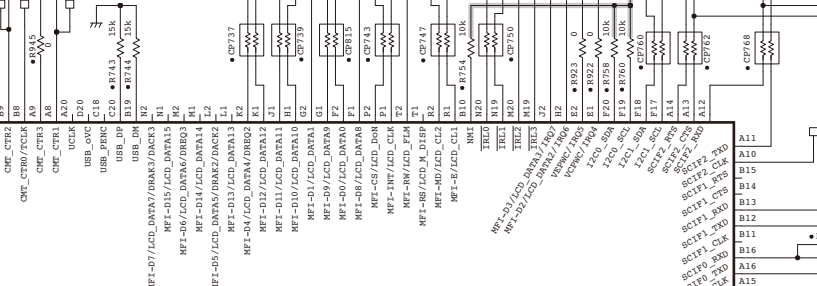
F

G

PC CONTROL

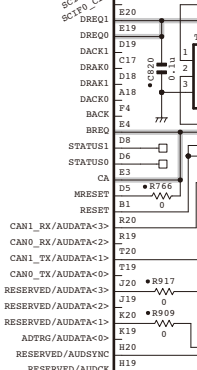


LAN_CSFT



MPU

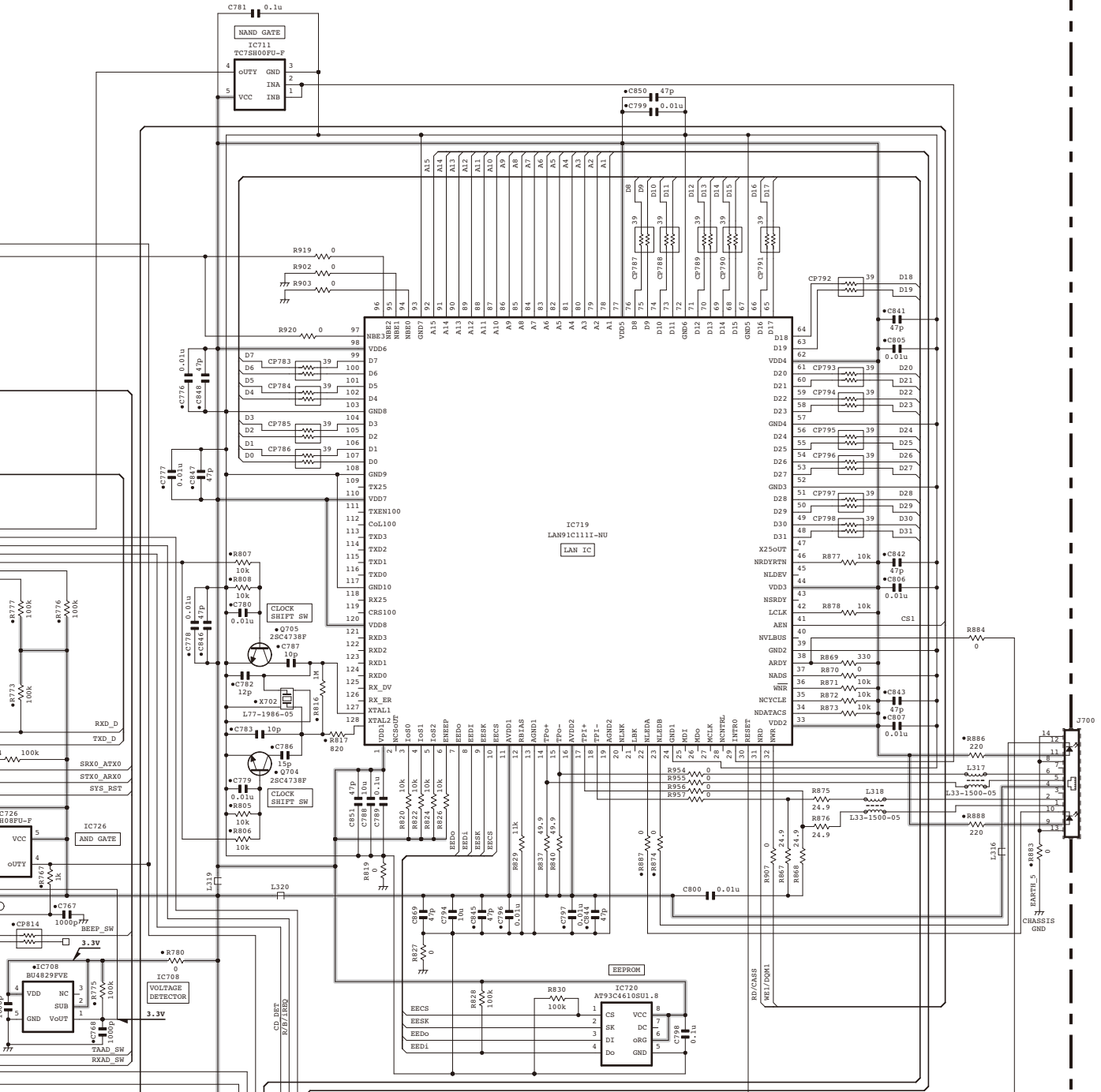
IC703

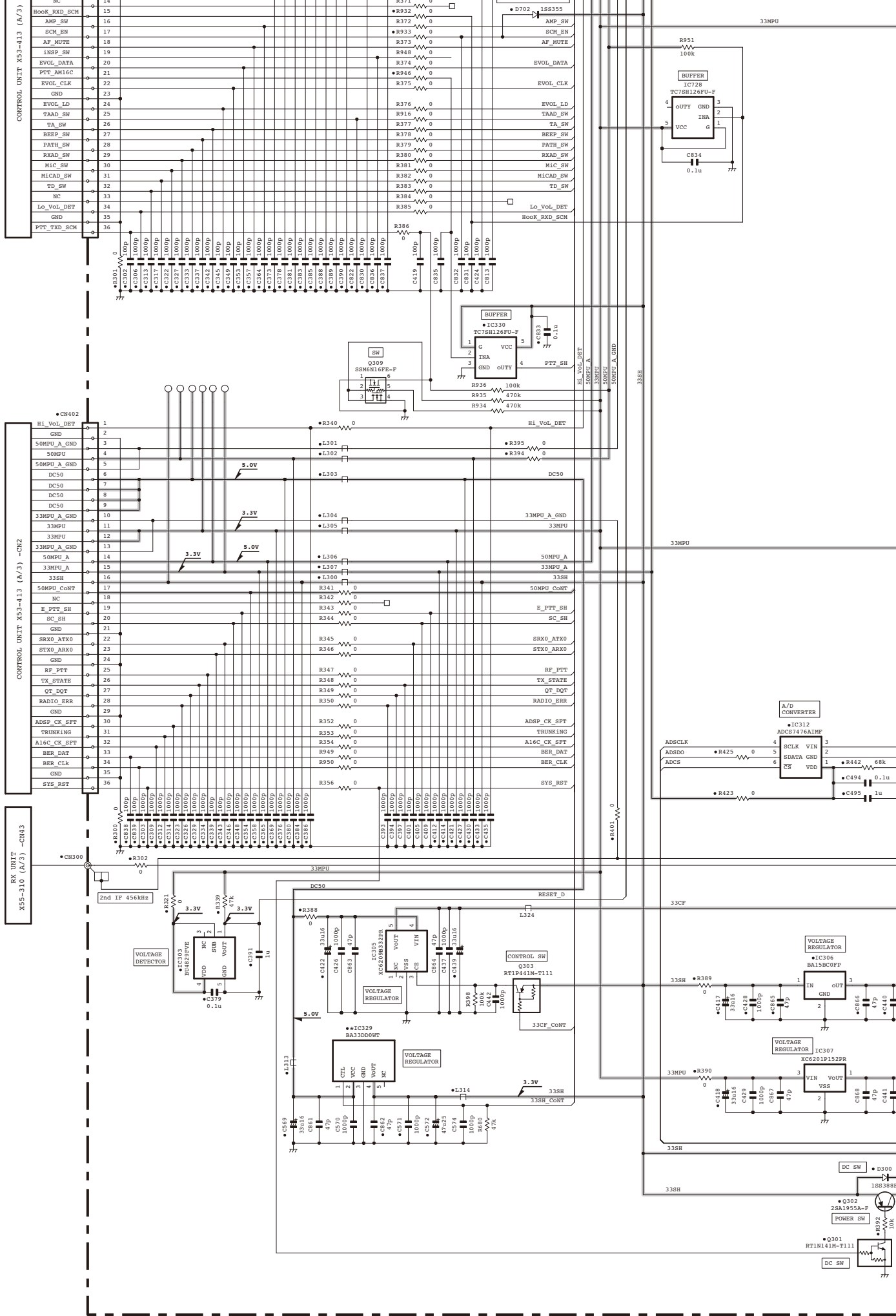


•R960	IC329	R960	R961
•R961	0-10	0	-
for service	BA33DDWT	-	0

Note : The components marked with a dot (•) are parts of layer 1.

PTH_3

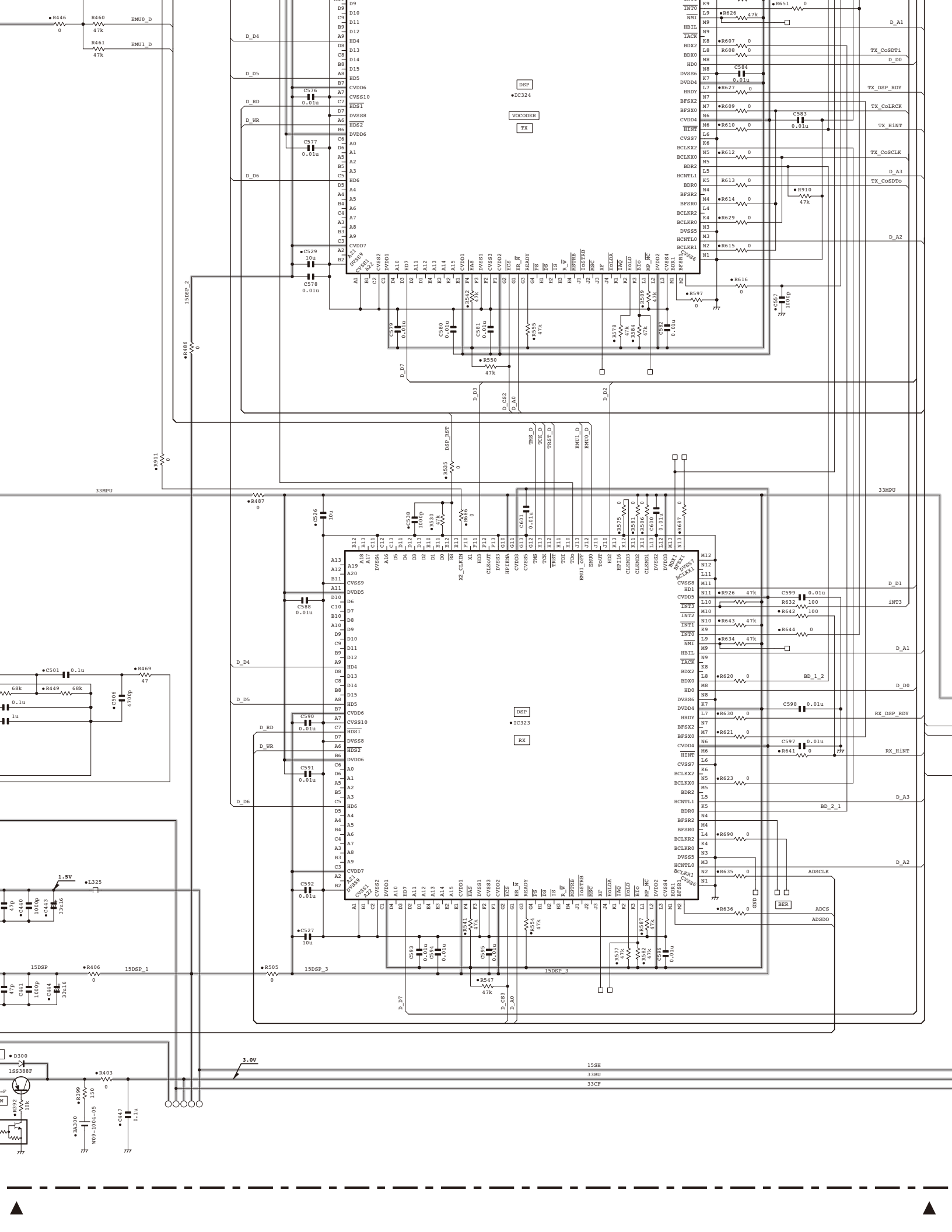


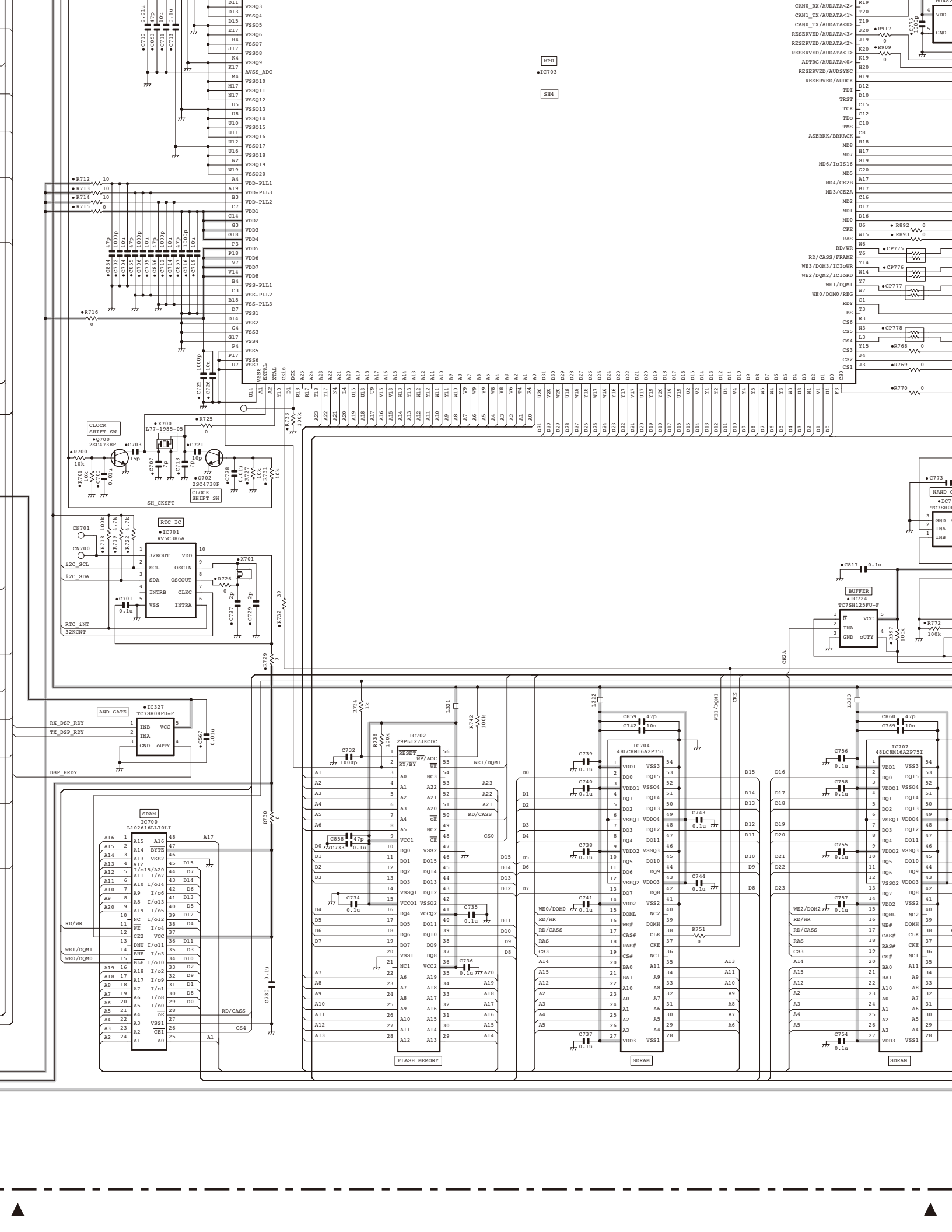


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IC700
2SC4738P
CLOCK SHIFTER SW

IC701
RV5C386A
RTC IC

IC702
29PL127JKCC
FLASH MEMORY

IC704
48LC8M16A2P751
SDRAM

IC707
48LC8M16A2P751
SDRAM

L102616L70L1
SRAM

TC7SH08FU-F
AND GATE

TC7SH23FU-F
BUFFER

OPTIONAL ACCESSORIES / 可选附件: KES-5 (EXTERNAL SPEAKER / 外部扬声器)

When Using an External Speaker

1. Make sure the unit's power is tuned off.
2. When using the external speaker, remove the jumper lead from the connector, and attach the speaker cable.
3. When not using the external speaker, replace the jumper lead and insert the connector into the speaker jack (pin 9 and 12).

使用外部扬声器时

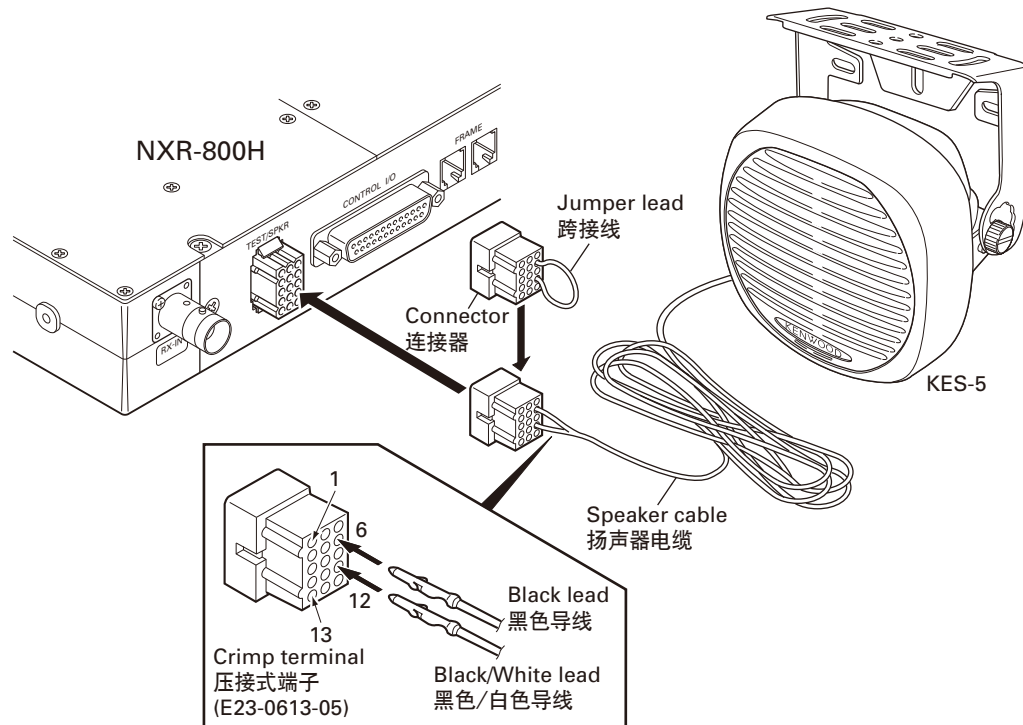
1. 确认单元电源已关闭。
2. 使用外部扬声器时，从连接器上拆下跨接线，然后安装扬声器电缆。
3. 不使用外部扬声器时，重新安装跨接线，将连接器插入扬声器插孔（引脚 9 和 12）。

Specifications

Maximum input power	40W
Impedance	4Ω
Dimensions (W x H x D) projection not included	129 x 129 x 77 mm
Weight	820g

规格

最大输入功率	40W
阻抗	4Ω
尺寸（宽 × 高 × 深，不包括凸起部分）	129 × 129 × 77 mm
重量	820g



NXR-800H

OPTIONAL ACCESSORIES / 可选附件: KXK-3 (OCXO UNIT / OCXO 单元)

Components Description

■ ACCESSORY UNIT (X42-3280-20)

Ref. No.	Part Name	Description
IC3	MOS-IC	Digital potentiometer
IC4	Analogue IC	OP AMP
IC6	MOS-IC	OP AMP
IC9	Bi-polar IC	Voltage regulator
IC10	MOS-IC	Inverter
IC11	ROM IC	EEPROM
IC12	Analogue IC	ADC
Q2~4	FET	DC switch
Q5,6	Transistor	RF AMP
Q13~17	FET	DC switch
D5	Diode	DC switch
D8	Diode	Detector

元件说明

■ ACCESSORY 单元 (X42-3280-20)

有关号码	零件名称	说明
IC3	MOS-IC	数字电位计
IC4	模拟 IC	OP 放大器
IC6	MOS-IC	OP 放大器
IC9	双极 IC	稳压器
IC10	MOS-IC	变换器
IC11	ROM IC	EEPROM
IC12	模拟 IC	ADC
Q2~4	场效应管	直流开关
Q5, 6	晶体管	RF 放大器
Q13~17	场效应管	直流开关
D5	二极管	直流开关
D8	二极管	检测器

Parts List / 零件表

* New Parts.

Ref. No.	Address	New parts	Parts No.	Description	Destination
KXK-3					
		*	B62-2022-00	INSTRUCTION MANUAL	M
		*	B62-2162-00	INSTRUCTION MANUAL	M2
			E31-3269-15	LEAD WIRE WITH MINIPIN PLUG	
		*	E37-1405-05	FLAT CABLE	
		*	E37-1406-05	LEAD WIRE WITH CONNECTOR	
			N67-3008-48	PAN HEAD SEMS SCREW	
ACCESSORY UNIT (X42-3280-20)					
C1-4			CK73GB1H471K	CHIP C 470PF K	
C5			CK73GB1H104K	CHIP C 0.10UF K	
C6			CK73GB1H471K	CHIP C 470PF K	
C7			CK73GB1H102K	CHIP C 1000PF K	
C8			CK73GB1H471K	CHIP C 470PF K	
C10			CK73GB1H471K	CHIP C 470PF K	
C12			CK73GB1H103K	CHIP C 0.010UF K	
C13			CK73GB1H104K	CHIP C 0.10UF K	
C14			CC73GCH1H090B	CHIP C 9.0PF B	
C16-19			CK73GB1H104K	CHIP C 0.10UF K	
C20			CK73GB1H471K	CHIP C 470PF K	
C21,22			CK73GB1H104K	CHIP C 0.10UF K	
C24			CC73GCH1H030B	CHIP C 3.0PF B	
C26			CK73GB1H471K	CHIP C 470PF K	
C27			CK73GB1H103K	CHIP C 0.010UF K	
C28			CK73GB1H104K	CHIP C 0.10UF K	
C29			CC73GCH1H060B	CHIP C 6.0PF B	
C30		*	CE32AU1C330M	CHIP EL 33UF 16WV	
C31			CK73GB1H104K	CHIP C 0.10UF K	
C33			CK73GB1H104K	CHIP C 0.10UF K	

Ref. No.	Address	New parts	Parts No.	Description	Destination
C35			CK73GB1H104K	CHIP C 0.10UF K	
C36-39			CK73GB1H471K	CHIP C 470PF K	
C46			CC73GCH1H820J	CHIP C 82PF J	
C47			CK73GB1H104K	CHIP C 0.10UF K	
C54			CK73GB1H104K	CHIP C 0.10UF K	
C56			CK73GB1H104K	CHIP C 0.10UF K	
C59			CK73GB1H104K	CHIP C 0.10UF K	
C61			CC73GCH1H560J	CHIP C 56PF J	
C62			CK73GB1H104K	CHIP C 0.10UF K	
C63			CC73GCH1H391J	CHIP C 390PF J	
C64			CK73GB1H104K	CHIP C 0.10UF K	
C71			CC73GCH1H101J	CHIP C 100PF J	
C72			CC73GCH1H270J	CHIP C 27PF J	
C73			CC73GCH1H101J	CHIP C 100PF J	
C80			CK73GB1H104K	CHIP C 0.10UF K	
C81			CC73GCH1H050B	CHIP C 5.0PF B	
C82			CC73GCH1H1R5B	CHIP C 1.5PF B	
C84			CC73GCH1H220J	CHIP C 22PF J	
C86			CK73GB1E105K	CHIP C 1.0UF K	
C87,88			CK73GB1H471K	CHIP C 470PF K	
C89			CC73GCH1H101J	CHIP C 100PF J	
C90			CK73GB1H104K	CHIP C 0.10UF K	
C91			CK73GB1H103K	CHIP C 0.010UF K	
C93			CK73GB1H104K	CHIP C 0.10UF K	
C94			CK73GB1H103K	CHIP C 0.010UF K	
C95,96		*	CS77CC1C100M	CHIP TNTL 10UF 16WV	
C97			CK73GB1H104K	CHIP C 0.10UF K	
C99			CK73GB1H103K	CHIP C 0.010UF K	
C100,101			CK73GB1H104K	CHIP C 0.10UF K	
C102,103			CK73GB1H471K	CHIP C 470PF K	
C104			CK73GB1H103K	CHIP C 0.010UF K	
C105			CK73GB1H104K	CHIP C 0.10UF K	

OPTIONAL ACCESSORIES / 可选附件: KXK-3 (OCXO UNIT / OCXO 单元)

Ref. No.	Address	New parts	Parts No.	Description	Destination
CN1		*	E40-6822-05	FLAT CABLE CONNECTOR	
CN2			E04-0154-05	PIN SOCKET	
CN3			E41-2671-05	PIN ASSY	
F1			F53-0324-05	FUSE (2.5A)	
L4			L41-2205-33	SMALL FIXED INDUCTOR (22UH)	
L5		*	L41-1205-33	SMALL FIXED INDUCTOR (12UH)	
L6			L41-1505-33	SMALL FIXED INDUCTOR (15UH)	
L8			L41-2205-33	SMALL FIXED INDUCTOR (22UH)	
L10			L41-3305-33	SMALL FIXED INDUCTOR (33UH)	
L15			L41-3305-33	SMALL FIXED INDUCTOR (33UH)	
L17		*	L41-2292-28	SMALL FIXED INDUCTOR (2.2UH)	
L19			L41-2295-33	SMALL FIXED INDUCTOR (2.2UH)	
L20			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)	
L21			L41-5685-33	SMALL FIXED INDUCTOR (0.56UH)	
X1		*	L77-1977-05	OCXO (10MHZ)	M
X1		*	L77-3045-05	OCXO (10MHZ)	M2
R1-3			RK73GB2A474J	CHIP R 470K J 1/10W	
R4-6			RK73GB2A471J	CHIP R 470 J 1/10W	
R10			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R12,13			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R15			RK73GB2A104J	CHIP R 100K J 1/10W	
R16			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R17			RK73GB2A474J	CHIP R 470K J 1/10W	
R18,19			RK73GB2A221J	CHIP R 220 J 1/10W	
R20			RK73GB2A101J	CHIP R 100 J 1/10W	
R21			RK73GB2A103J	CHIP R 10K J 1/10W	
R22			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R23			RK73GB2A470J	CHIP R 47 J 1/10W	
R24			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R25			RK73GB2A331J	CHIP R 330 J 1/10W	
R26			R92-3475-05	CHIP R 0.27 F 1/2W	
R27			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R28			RK73GB2A101J	CHIP R 100 J 1/10W	
R29			RK73GB2A103J	CHIP R 10K J 1/10W	
R30			RK73GB2A181J	CHIP R 180 J 1/10W	
R31			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R32			RK73GB2A104J	CHIP R 100K J 1/10W	
R33			RK73GB2A473J	CHIP R 47K J 1/10W	
R34			RK73GB2A153J	CHIP R 15K J 1/10W	
R36			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R43			RK73GB2A332J	CHIP R 3.3K J 1/10W	

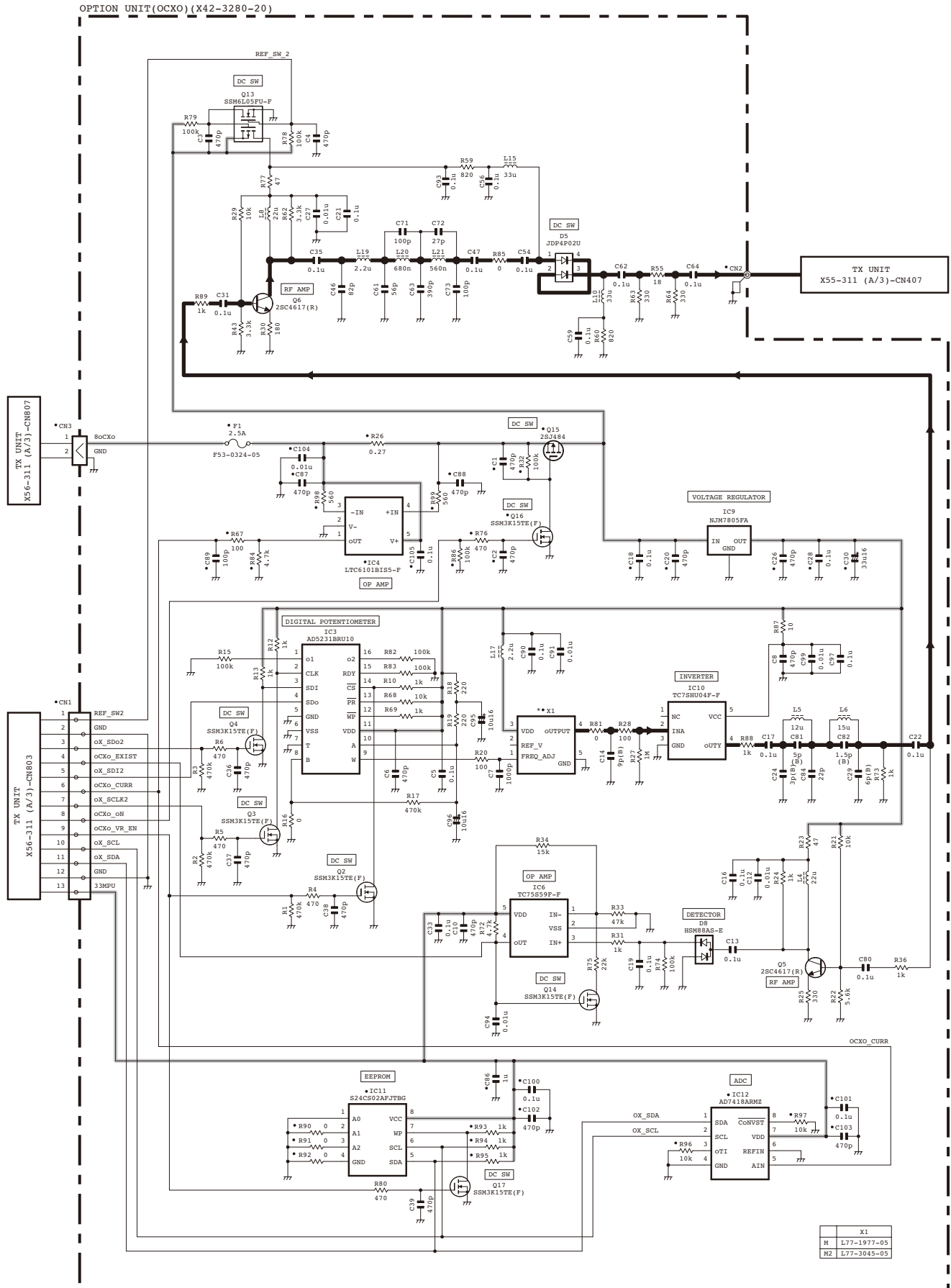
ACCESSORY UNIT (X42-3280-20)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R55			RK73GB2A180J	CHIP R 18 J 1/10W	
R59,60			RK73GB2A821J	CHIP R 820 J 1/10W	
R62			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R63,64			RK73GB2A331J	CHIP R 330 J 1/10W	
R67			RK73GB2A101J	CHIP R 100 J 1/10W	
R68			RK73GB2A103J	CHIP R 10K J 1/10W	
R69			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R72			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R73			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R74			RK73GB2A104J	CHIP R 100K J 1/10W	
R75			RK73GB2A223J	CHIP R 22K J 1/10W	
R76			RK73GB2A471J	CHIP R 470 J 1/10W	
R77			RK73GB2A470J	CHIP R 47 J 1/10W	
R78,79			RK73GB2A104J	CHIP R 100K J 1/10W	
R80			RK73GB2A471J	CHIP R 470 J 1/10W	
R81			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R82,83			RK73GB2A104J	CHIP R 100K J 1/10W	
R84			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R85			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R86			RK73GB2A104J	CHIP R 100K J 1/10W	
R87			RK73GB2A100J	CHIP R 10 J 1/10W	
R88,89			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R90-92			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R93-95			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R96,97			RK73GB2A103J	CHIP R 10K J 1/10W	
R98,99			RK73GB2A561J	CHIP R 560 J 1/10W	
D5		*	JDP4P02U	DIODE	
D8			HSM88AS-E	DIODE	
IC3		*	AD5231BRU10	MOS-IC	
IC4		*	LTC6101BIS5-F	ANALOGUE IC	
IC6		*	TC75S59F-F	MOS-IC	
IC9			NJM7805FA-ZB	BI-POLAR IC	
IC10			TC7SHU04F-F	MOS-IC	
IC11			S24CS02AFJTBG	ROM IC	
IC12		*	AD7418ARMZ	ANALOGUE IC	
Q2-4			SSM3K15TE(F)	FET	
Q5,6			2SC4617(R)	TRANSISTOR	
Q13			SSM6L05FU-F	FET	
Q14			SSM3K15TE(F)	FET	
Q15			2SJ484	FET	
Q16,17			SSM3K15TE(F)	FET	

If a part reference number is listed in a shaded box, that part does not come with the PCB.

OPTIONAL ACCESSORIES / 可选附件 : KXK-3 (OCXO UNIT / OCXO 单元) NXR-800H

Schematic Diagram / 原理图



Note : The components marked with a dot (•) are parts of layer 1.

NXR-800H

SPECIFICATIONS

GENERAL

Frequency Range.....	C: 440~470MHz, C2: 400~430MH
Channel Spacing	Analog: 12.5/25 kHz Digital: 6.25/12.5 kHz
PLL Channet Step.....	2.5/ 3.125/ 5/ 6.25kHz
Frequency Stability	±1.5ppm
with KXK-3	±1.0ppm
Operating Voltage	13.2V DC (10.8~15.6V DC)
Operating Temperature Range	-30°C~+60°C
Antenna Impedance	50Ω
Dimensions (W x H x D)	483 x 44 x 331 mm
(Projections not included)	
Weight	5kg

RECEIVER

Sensitivity	Digital @6.25kHz (3% BER): 0.27μV
	Digital @12.5kHz (3% BER): 0.33μV
	Analog @12.5kHz (12dB SINAD): 0.30μV
	Analog @25kHz (12dB SINAD): 0.30μV
Adjacent Channel Selectivity (Analog) *1	25kHz: 87dB 12.5kHz: 81dB
Intermodulation (Analog)	85dB
Spurious Response Rejection (Analog).....	100dB
Audio Distortion.....	Less than 2%
Audio Output (EXT. SP).....	3W/4Ω

TRANSMITTER

RF Power Output.....	5~25W
Modulation Limiting (Analog).....	±5.0kHz at 25kHz ±2.5kHz at 12.5kHz
Spurious Emission	-36dBm ≤ 1GHz, -30dBm > 1GHz
FM Noise (Analog).....	25kHz: 55dB 12.5kHz: 50dB
Modulation Distortion.....	Less than 1%
Modulation.....	Analog @25kHz: 16K0F3E Analog @12.5kHz: 8K50F3E
	Digital @12.5kHz: 8K30F1E Digital @6.25kHz: 4K00F1E

*1: Analog measurements made per TIA/EIA603.

Without *1: Analog measurements made per TIA/EIA603A.

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

规 格

通 用

频率范围.....	C:440 ~ 470MHz, C2:400 ~ 430MHz
信道间隔.....	模拟 :12.5/25 kHz 数字 :6.25/12.5 kHz
PLL 信道步长.....	2.5/ 3.125/ 5/ 6.25kHz
频率稳定度.....	±1.5ppm
使用 KXK-3 时	±1.0ppm
工作电源电压.....	13.2V DC(10.8~15.6V DC)
工作温度范围.....	-30°C ~ +60°C
天线阻抗.....	50 Ω
外型尺寸 (宽 × 高 × 长).....	483×44×331 mm
(未包括凸起部分)	
重量.....	5kg

接 收

接收灵敏度.....	数字 @6.25kHz (3% 误码率) :0.27μV
	数字 @12.5kHz (3% 误码率) :0.33μV
	模拟 @12.5kHz (12dB SINAD) :0.30μV
	模拟 @25kHz (12dB SINAD) :0.30μV
邻道选择性 (模拟)*1	25kHz:87dB 12.5kHz:81dB
互调抑制 (模拟)	85dB
杂散响应 (模拟)	100dB
音频失真.....	2% 以下
音频输出功率 (EXT. SP)	3W(4 Ω 时)

发 射

发射功率.....	5~25W
调制限制 (模拟)	±5.0kHz (25kHz 信道) ±2.5kHz (12.5kHz 信道)
杂散抑制.....	-36dBm ≤ 1GHz, -30dBm > 1GHz
调频噪声 (模拟)	25kHz:55dB 12.5kHz:50dB
调制失真.....	1% 以下
电波类型	模拟 @25kHz:16K0F3E 模拟 @12.5kHz:8K50F3E
	数字 @12.5kHz:8K30F1E 数字 @6.25kHz:4K00F1E

*1: 依照 TIA/EIA603 所作的模拟测量。

不带 *1: 依照 TIA/EIA603A 所作的模拟测量。

建伍公司有权变更技术规格, 恕不预先通知。

NXR-800H

Kenwood Corporation

2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

Kenwood U.S.A. Corporation

P.O. BOX 22745, 2201 East Dominguez Street, Long Beach,
CA 90801-5745, U.S.A.

Kenwood Electronics Canada Inc.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

Kenwood Electronics Deutschland GmbH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

Kenwood Electronics Belgium N.V.

Leuvensesteenweg 248 J, 1800 Vilvoorde, Belgium

Kenwood Electronics France S.A.

L'Etoile Paris Nord 2, 50 Allée des Impressionnistes,
Bp 58416 Villepinte, 95944 Roissy Ch De Gaulle Cedex

Kenwood Electronics UK Limited

KENWOOD House, Dwight Road, Watford, Herts.,
WD18 9EB United Kingdom

Kenwood Electronics Europe B.V.

Amsterdamseweg 37, 1422 AC Uithoorn, The Netherlands

Kenwood Electronics Italia S.p.A.

Via G. Sirtori, 7/9 20129 Milano, Italy

Kenwood Ibérica, S.A.

Bolivia, 239-08020 Barcelona, Spain

Kenwood Electronics Australia Pty. Ltd.

Talavera Business Park Building A, 4 Talavera Road,
North Ryde NSW 2113 Australia

Kenwood Electronics (Hong Kong) Ltd.

Unit 3712-3724, Level 37, Tower one Metroplaza, 223 Hing Fong Road,
Kwai Fong, N.T., Hong Kong

Kenwood Electronics Singapore Pte Ltd

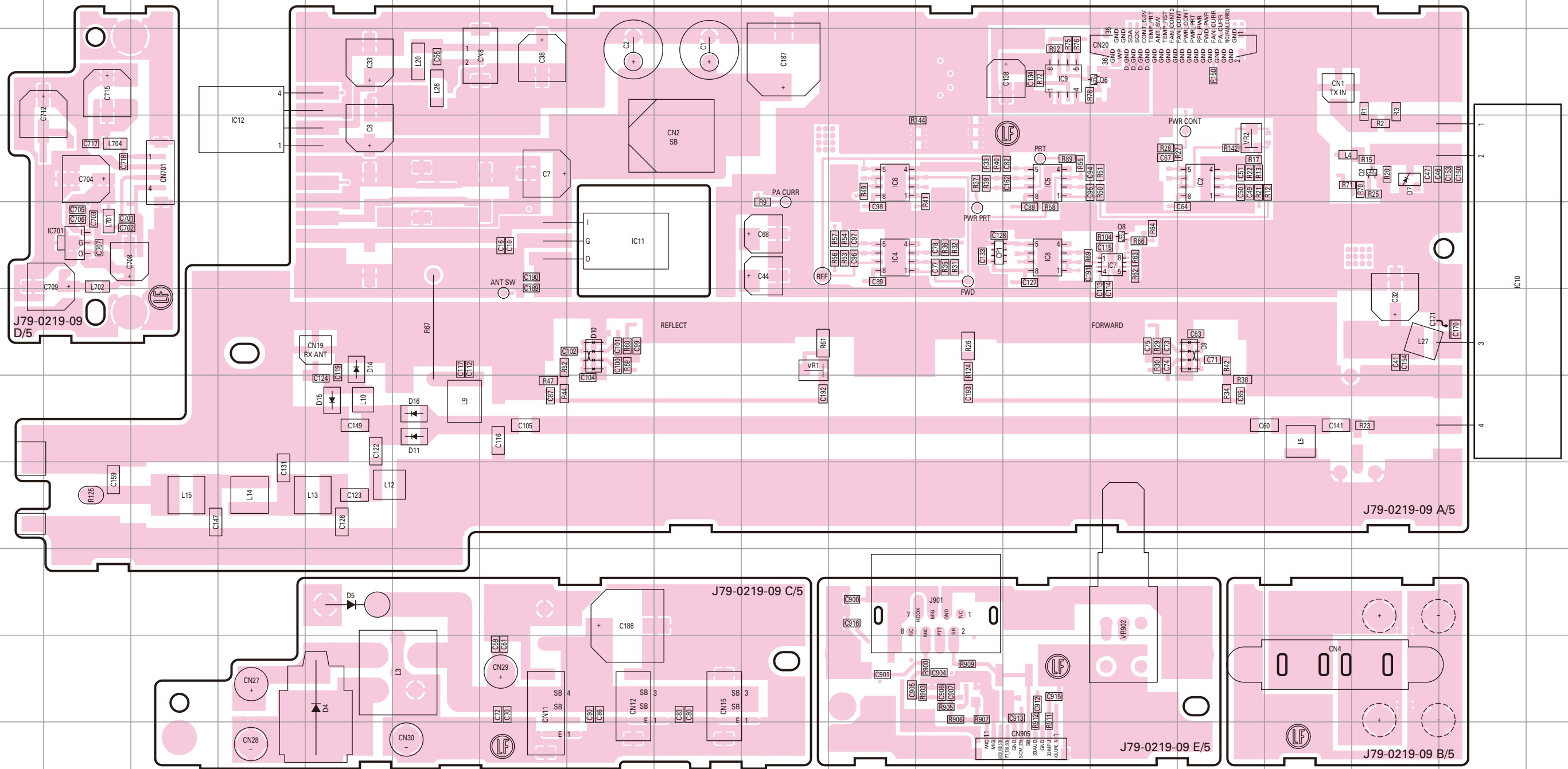
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NXR-800H PC BOARD / PC板

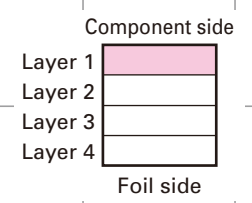
PC BOARD / PC板 NXR-800H

FINAL UNIT (X45-3862-70): C
Component side view (J79-0219-09)

FINAL UNIT (X45-3862-70): C
Component side view (J79-0219-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC2	4O	IC8	5M	IC701	5B	D5	9E	D14	6E
IC4	5K	IC9	3M	Q2	4Q	D7	4Q	D15	7E
IC5	4M	IC10	5R	Q6	3N	D9	6O	D16	7F
IC6	4K	IC11	5H	Q8	5N	D10	6H		
IC7	5N	IC12	4D	D4	10E	D11	7F		

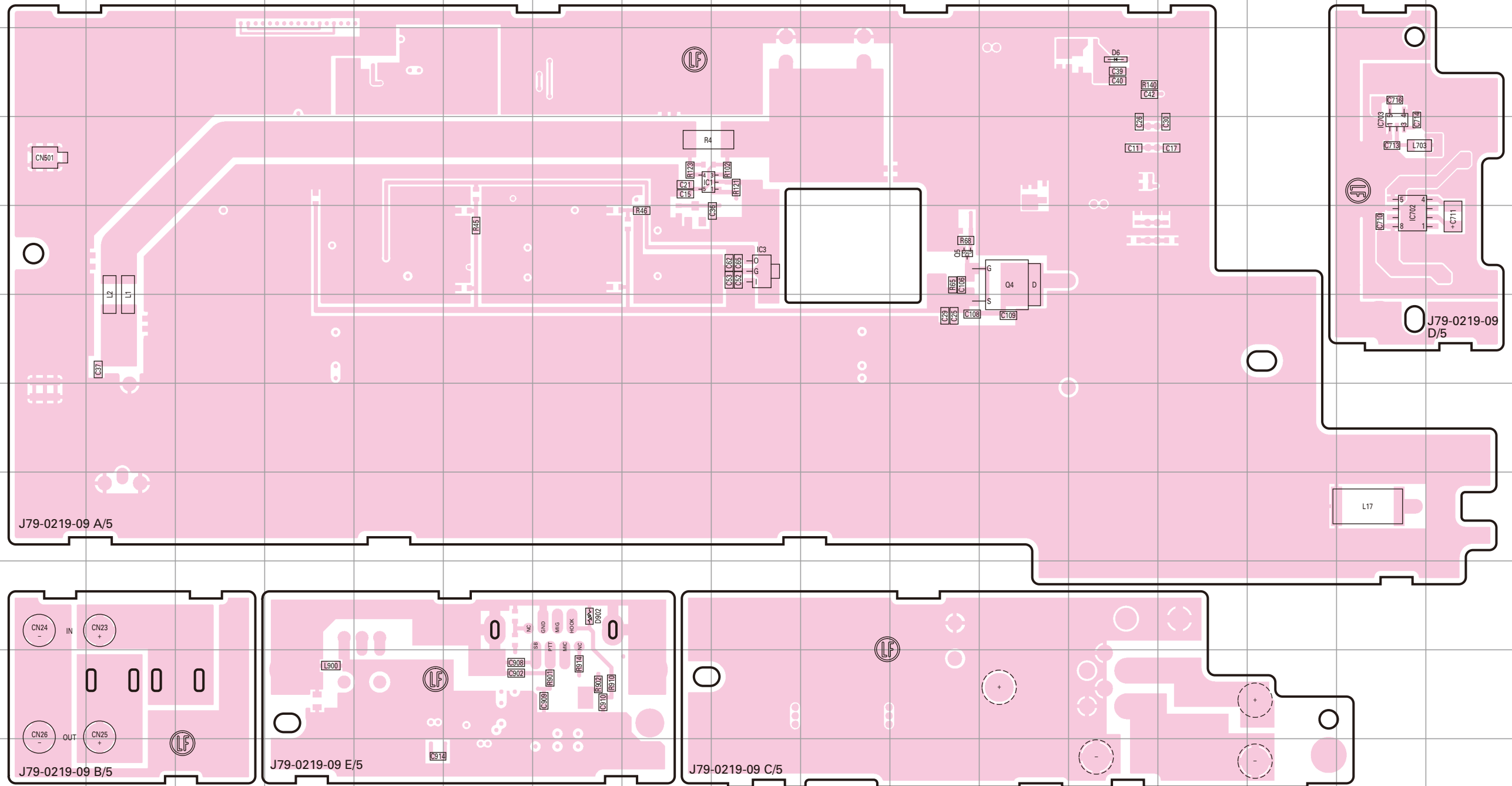


NXR-800H PC BOARD / PC板

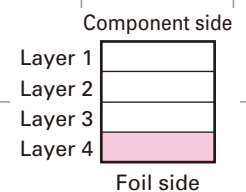
PC BOARD / PC板 NXR-800H

FINAL UNIT (X45-3862-70): C
Foil side view (J79-0219-09)

FINAL UNIT (X45-3862-70): C
Foil side view (J79-0219-09)



Ref. No.	Address	Ref. No.	Address
IC1	4I	Q4	5M
IC3	5J	Q5	5L
IC702	5Q	D6	3N
IC703	4Q	D902	9H

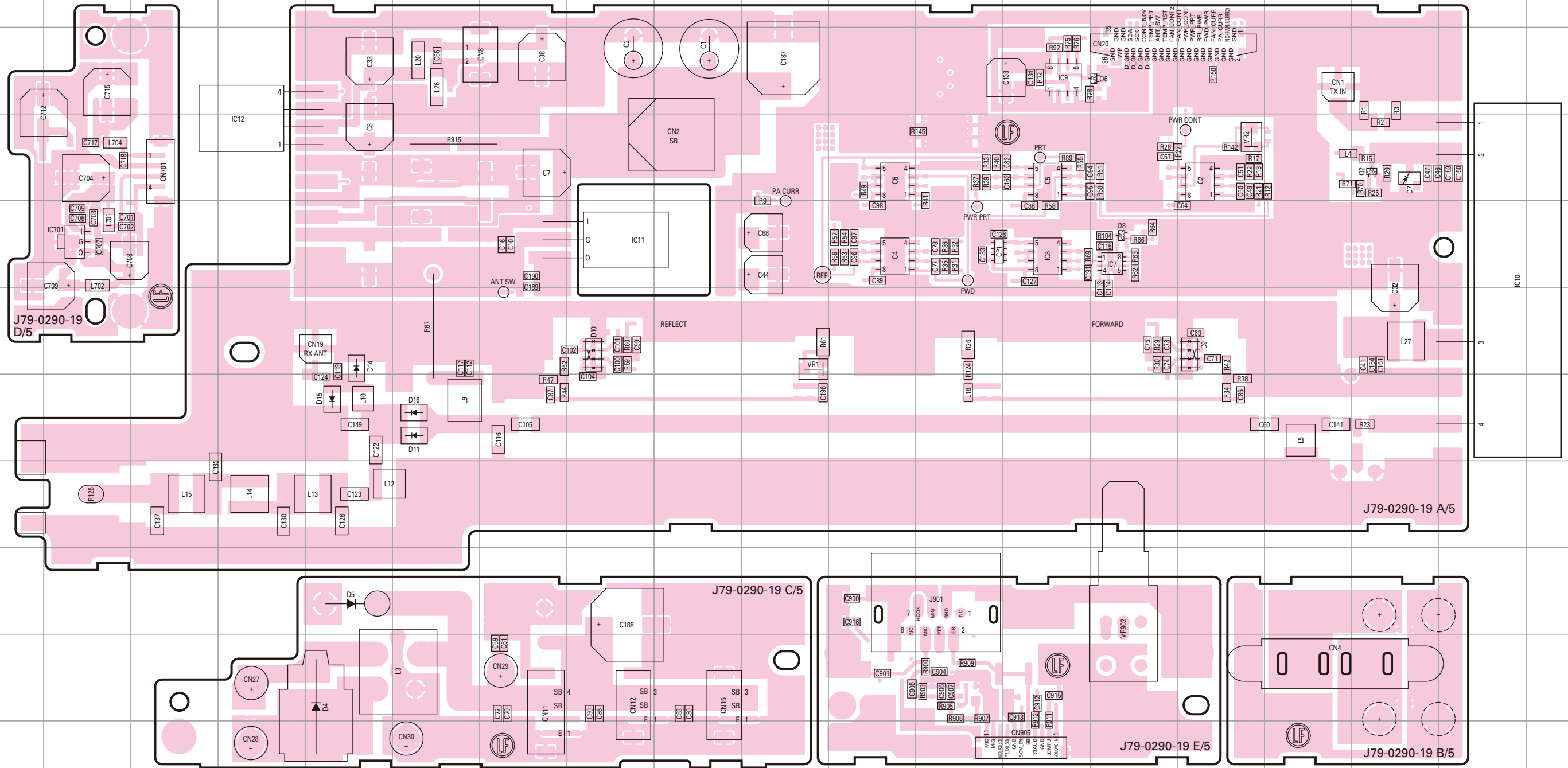


NXR-800H PC BOARD / PC板

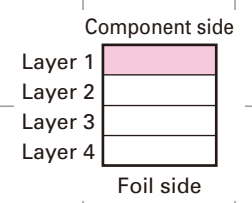
PC BOARD / PC板 NXR-800H

FINAL UNIT (X45-3862-71): C2
Component side view (J79-0290-19)

FINAL UNIT (X45-3862-71): C2
Component side view (J79-0290-19)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC2	4O	IC8	5M	IC701	5B	D5	9E	D14	6E
IC4	5K	IC9	3M	Q2	4Q	D7	4Q	D15	7E
IC5	4M	IC10	5R	Q6	3N	D9	6O	D16	7F
IC6	4K	IC11	5H	Q8	5N	D10	6H		
IC7	5N	IC12	4D	D4	10E	D11	7F		

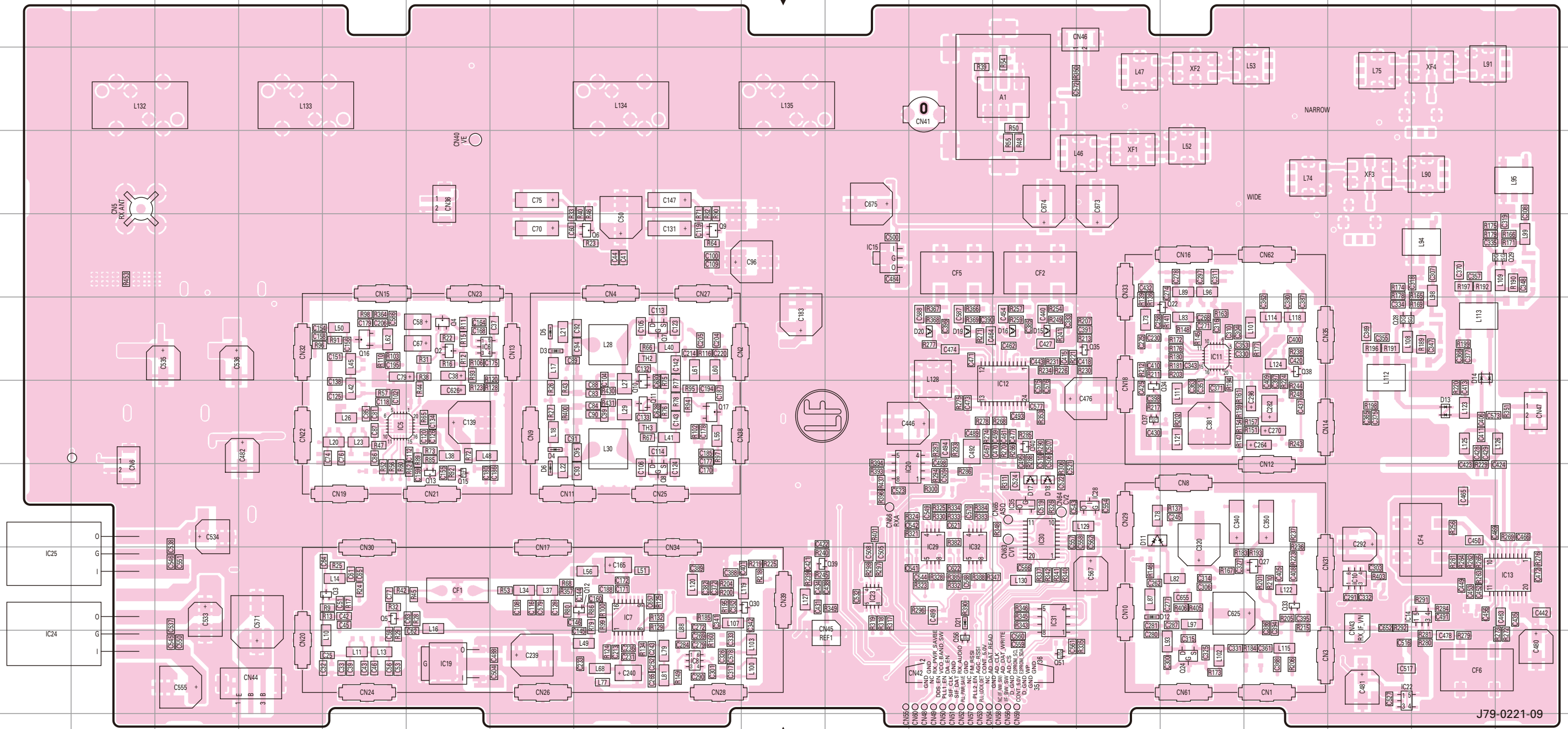


NXR-800H PC BOARD / PC板

PC BOARD / PC板 NXR-800H

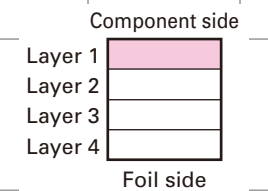
RX UNIT (X55-3102-71): C
Component side view (J79-0221-09)

RX UNIT (X55-3102-71): C
Component side view (J79-0221-09)



J79-0221-09

Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC5	7E	IC15	5K	IC30	8M	Q7	6I	Q17	7I	Q35	6N	D5	6G	D18	8M
IC6	6F	IC19	10F	IC31	9M	Q8	8I	Q22	6O	Q37	7N	D6	8G	D19	6L
IC7	9H	IC20	8K	IC32	8L	Q9	5I	Q24	10O	Q38	6P	D11	8N	D20	6L
IC8	10I	IC22	10Q	IC35	8M	Q10	7H	Q27	9P	Q39	9J	D12	9N	D21	9L
IC10	9Q	IC23	9K	Q2	6F	Q11	7H	Q28	6Q	Q40	7M	D13	7R		
IC11	6O	IC24	10A	Q3	9E	Q12	9H	Q29	5S	Q51	10M	D14	6R		
IC12	7M	IC25	9A	Q4	6F	Q13	8F	Q30	9J	Q56	10L	D15	6M		
IC13	9S	IC28	8N	Q5	9E	Q15	8F	Q33	9P	D3	6G	D16	6M		
IC14	9R	IC29	8L	Q6	5H	Q16	6E	Q34	7N	D4	7G	D17	8M		

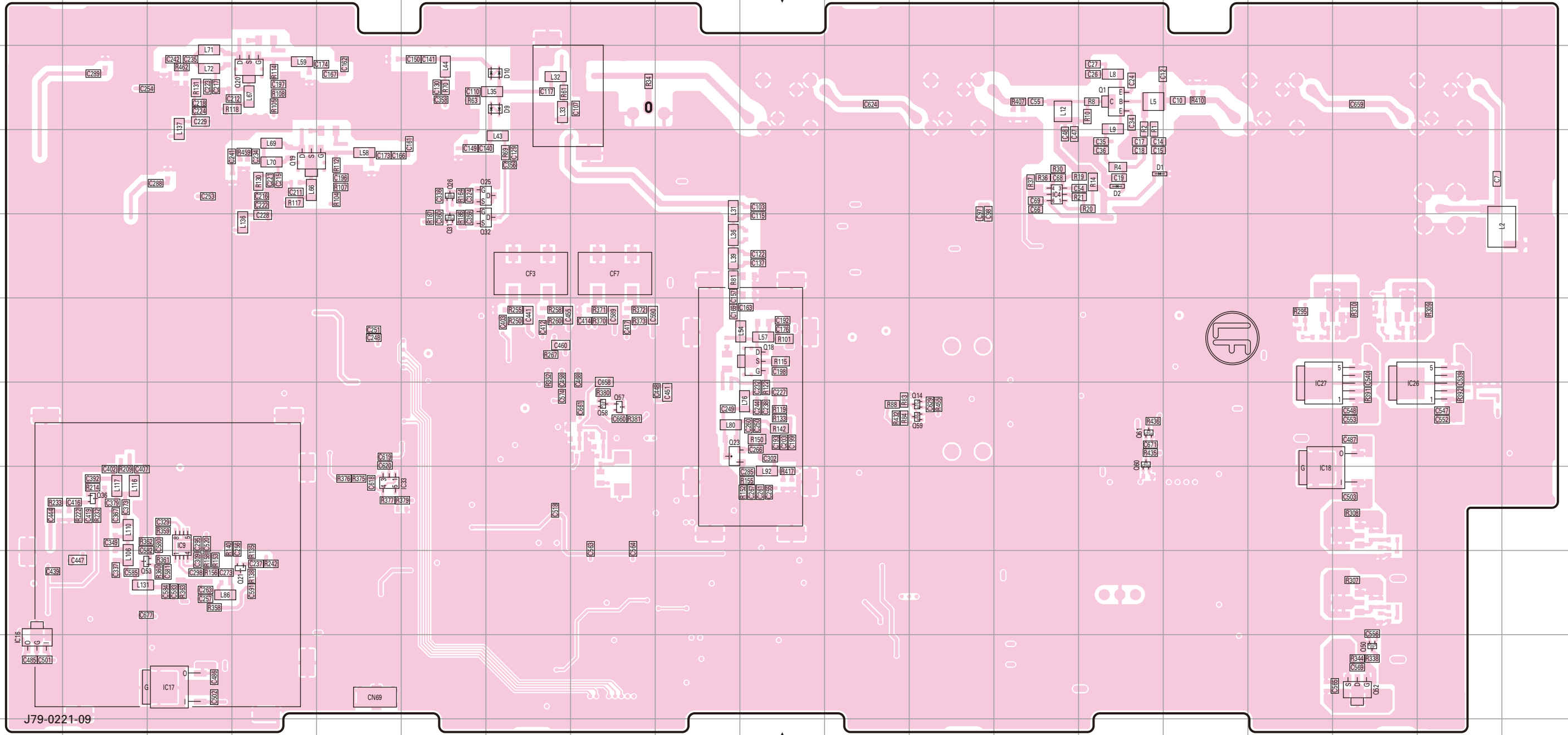


NXR-800H PC BOARD / PC板

RX UNIT (X55-3102-71): C
Foil side view (J79-0221-09)

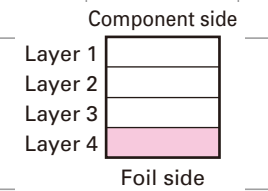
PC BOARD / PC板 NXR-800H

RX UNIT (X55-3102-71): C
Foil side view (J79-0221-09)



J79-0221-09

Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC4	4M	Q14	7L	Q32	5G	Q61	7N
IC9	8C	Q18	6J	Q36	8B	D1	4N
IC16	10A	Q19	4D	Q50	10Q	D2	4N
IC17	10C	Q20	3D	Q52	10Q	D9	3G
IC18	8P	Q21	9D	Q53	9B	D10	3G
IC26	7Q	Q23	7I	Q57	7H		
IC27	7P	Q25	4G	Q58	7H		
IC33	8E	Q26	4F	Q59	7L		
Q1	3N	Q31	5F	Q60	7N		

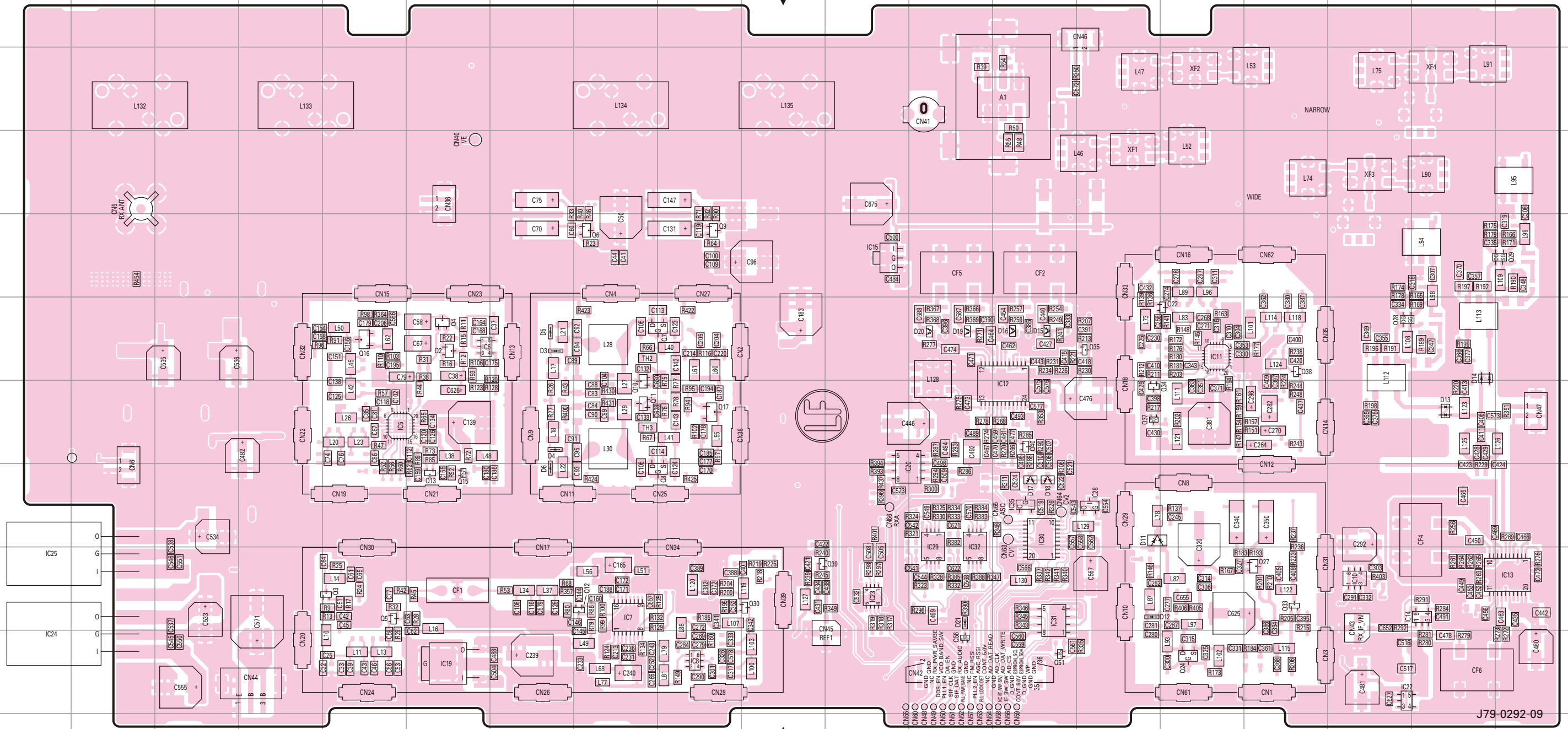


NXR-800H PC BOARD / PC板

PC BOARD / PC板 NXR-800H

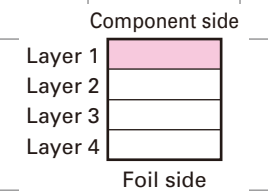
RX UNIT (X55-3102-72): C2
Component side view (J79-0292-09)

RX UNIT (X55-3102-72): C2
Component side view (J79-0292-09)



J79-0292-09

Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC5	7E	IC15	5K	IC30	8M	Q7	6I	Q17	7I	Q35	6N	D5	6G	D18	8M
IC6	6F	IC19	10F	IC31	9M	Q8	8I	Q22	6O	Q37	7N	D6	8G	D19	6L
IC7	9H	IC20	8K	IC32	8L	Q9	5I	Q24	10O	Q38	6P	D11	8N	D20	6L
IC8	10I	IC22	10Q	IC35	8M	Q10	7H	Q27	9P	Q39	9J	D12	9N	D21	9L
IC10	9Q	IC23	9K	Q2	6F	Q11	7H	Q28	6Q	Q40	7M	D13	7R		
IC11	6O	IC24	10A	Q3	9E	Q12	9H	Q29	5S	Q51	10M	D14	6R		
IC12	7M	IC25	9A	Q4	6F	Q13	8F	Q30	9J	Q56	10L	D15	6M		
IC13	9S	IC28	8N	Q5	9E	Q15	8F	Q33	9P	D3	6G	D16	6M		
IC14	9R	IC29	8L	Q6	5H	Q16	6E	Q34	7N	D4	7G	D17	8M		

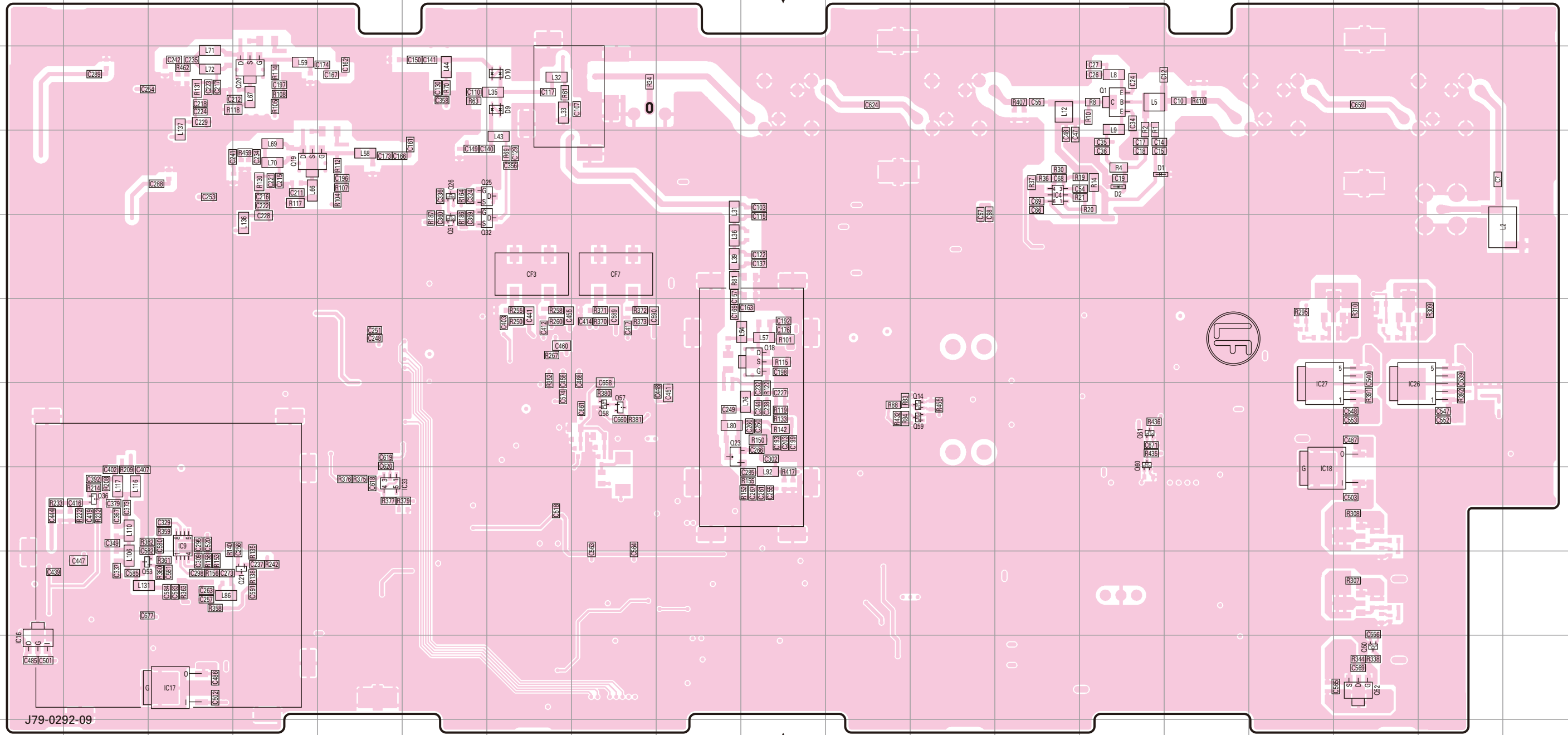


NXR-800H PC BOARD / PC板

RX UNIT (X55-3102-72): C2
Foil side view (J79-0292-09)

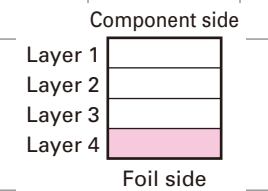
PC BOARD / PC板 NXR-800H

RX UNIT (X55-3102-72): C2
Foil side view (J79-0292-09)



J79-0292-09

Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC4	4M	Q14	7L	Q32	5G	Q61	7N
IC9	8C	Q18	6J	Q36	8B	D1	4N
IC16	10A	Q19	4D	Q50	10Q	D2	4N
IC17	10C	Q20	3D	Q52	10Q	D9	3G
IC18	8P	Q21	9D	Q53	9B	D10	3G
IC26	7Q	Q23	7I	Q57	7H		
IC27	7P	Q25	4G	Q58	7H		
IC33	8E	Q26	4F	Q59	7L		
Q1	3N	Q31	5F	Q60	7N		

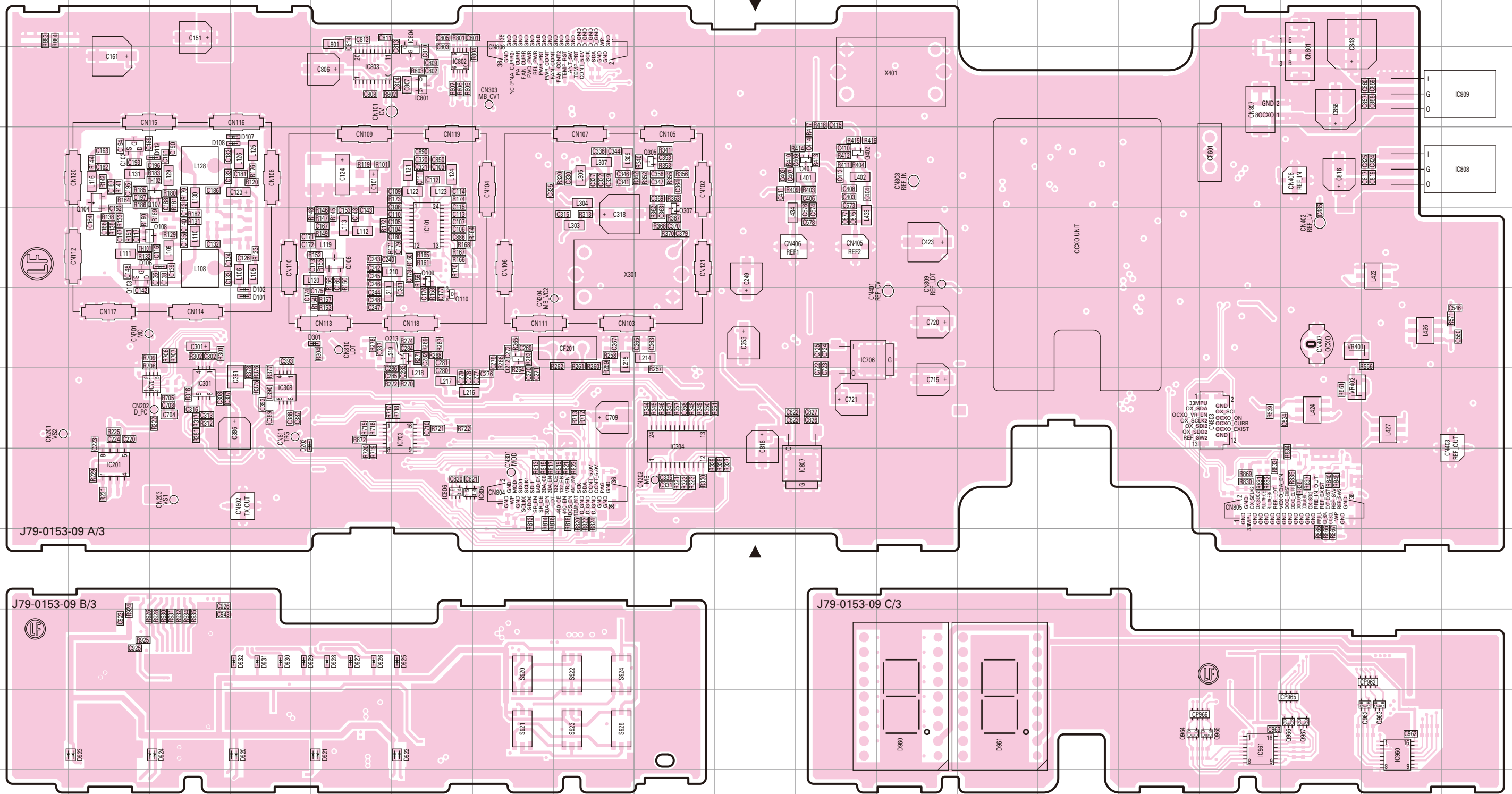


NXR-800H PC BOARD / PC板

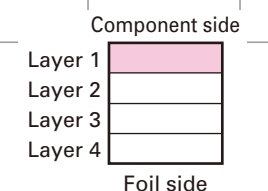
PC BOARD / PC板 NXR-800H

TX UNIT (X56-312X-XX) 0-12: C2 2-71: C
Component side view (J79-0153-09)

TX UNIT (X56-312X-XX) 0-12: C2 2-71: C
Component side view (J79-0153-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC101	5F	IC706	6K	IC807	8K	Q104	4B	Q213	6F	Q964	11O	D107	4D	D922	11F
IC201	8B	IC801	3F	IC808	4S	Q106	5E	Q305	4I	Q965	11P	D108	4D	D923	11B
IC301	7C	IC802	3F	IC809	3S	Q107	4C	Q307	5I	Q966	11Q	D112	4C	D924	11C
IC304	7I	IC803	3E	IC960	11R	Q108	5C	Q401	4K	Q967	11Q	D202	7D	D925	10F
IC308	7D	IC804	3F	IC961	11P	Q109	5F	Q402	4K	D101	6D	D301	6E	D926	10E
IC701	7C	IC805	8F	Q102	4B	Q110	6F	Q962	11R	D102	6D	D920	11D	D927	10E
IC703	7F	IC806	8F	Q103	5B	Q212	6G	Q963	11R	D106	5C	D921	11E	D928	10E

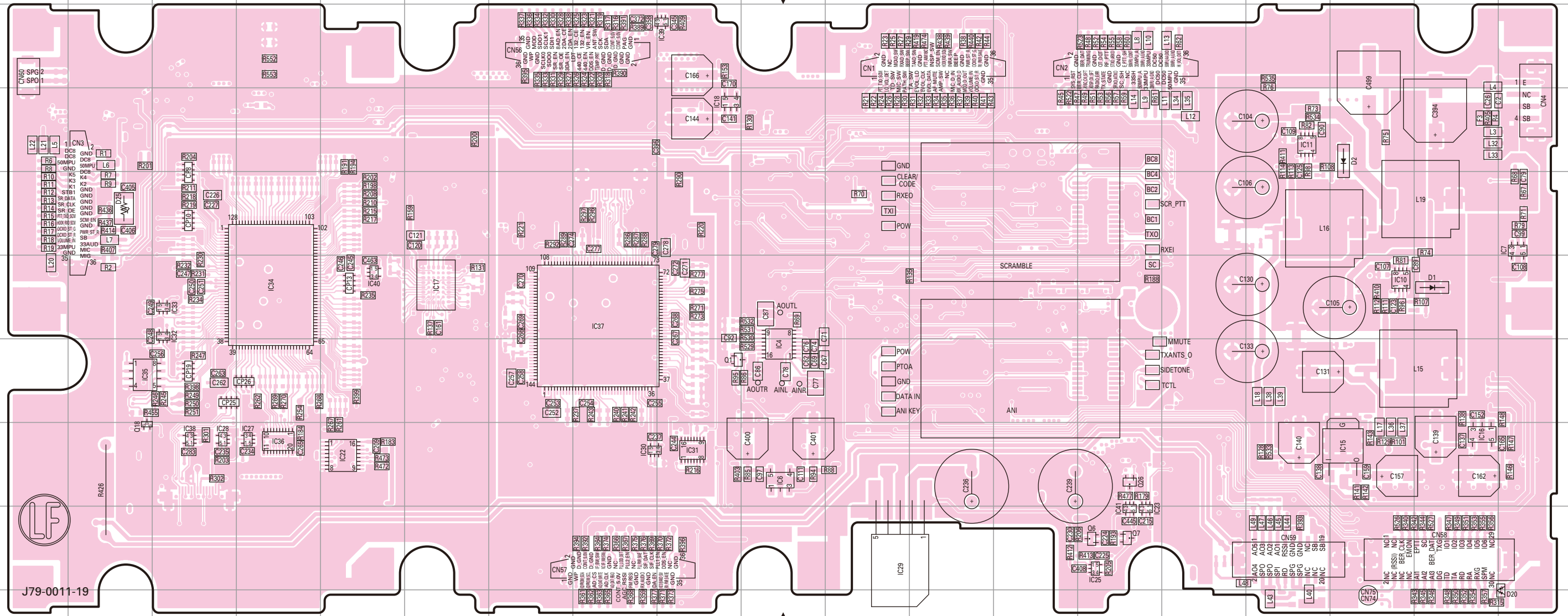


NXR-800H PC BOARD / PC板

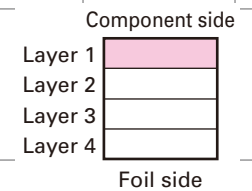
PC BOARD / PC板 NXR-800H

CONTROL UNIT (X53-4132-XX) -71 : C,C2 -72 : For service
Component side view (J79-0011-19)

CONTROL UNIT (X53-4132-XX) -71 : C,C2 -72 : For service
Component side view (J79-0011-19)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC4	7J	IC22	8E	IC33	6C	Q1	7I
IC6	8J	IC23	9N	IC34	6D	Q6	9N
IC7	5S	IC25	9N	IC35	7B	Q7	9N
IC10	6Q	IC27	8D	IC36	8D	Q18	8B
IC11	4P	IC28	8C	IC37	6H	Q26	8N
IC15	8Q	IC29	9K	IC38	8C	D1	6R
IC16	8R	IC30	8H	IC39	3I	D2	4Q
IC17	6F	IC31	8I	IC40	6E	D20	10S
IC18	4I	IC32	6C	IC41	9N	D25	5B

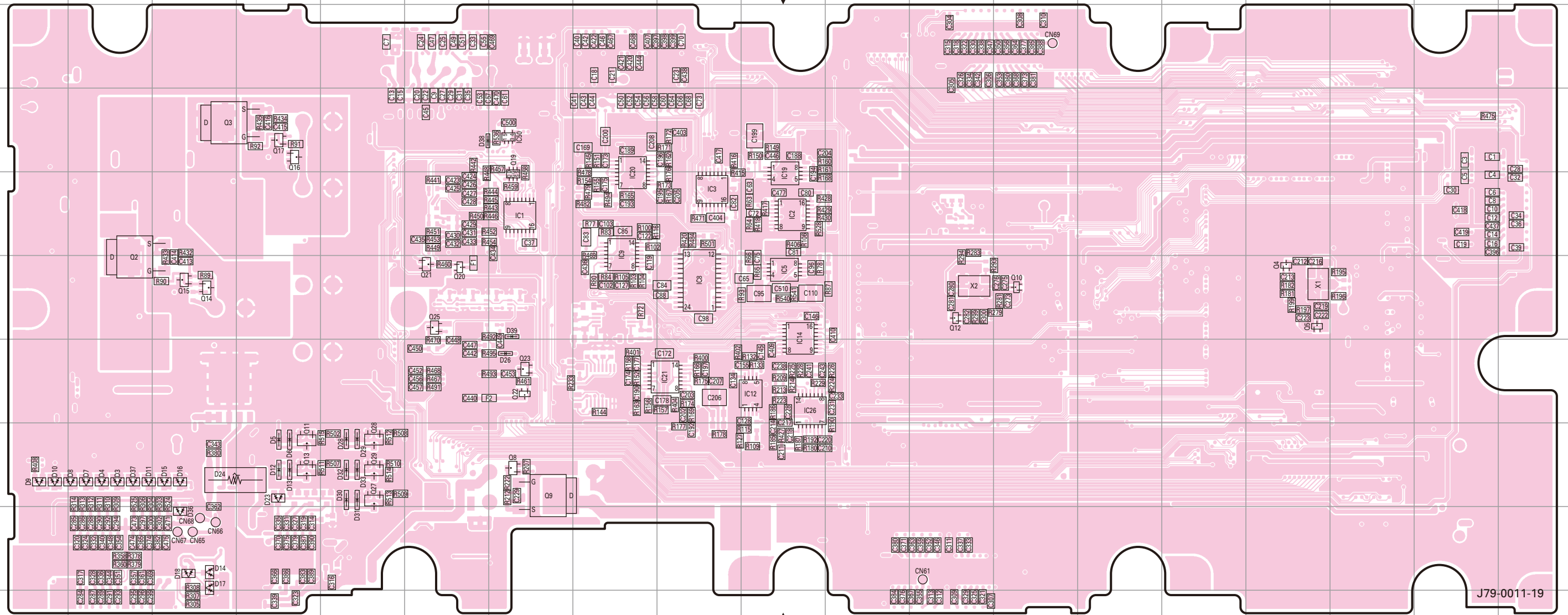


NXR-800H PC BOARD / PC板

PC BOARD / PC板 NXR-800H

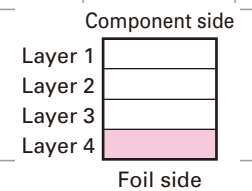
CONTROL UNIT (X53-4132-XX) -71 : C,C2 -72 : For service
Foil side view (J79-0011-19)

CONTROL UNIT (X53-4132-XX) -71 : C,C2 -72 : For service
Foil side view (J79-0011-19)



J79-0011-19

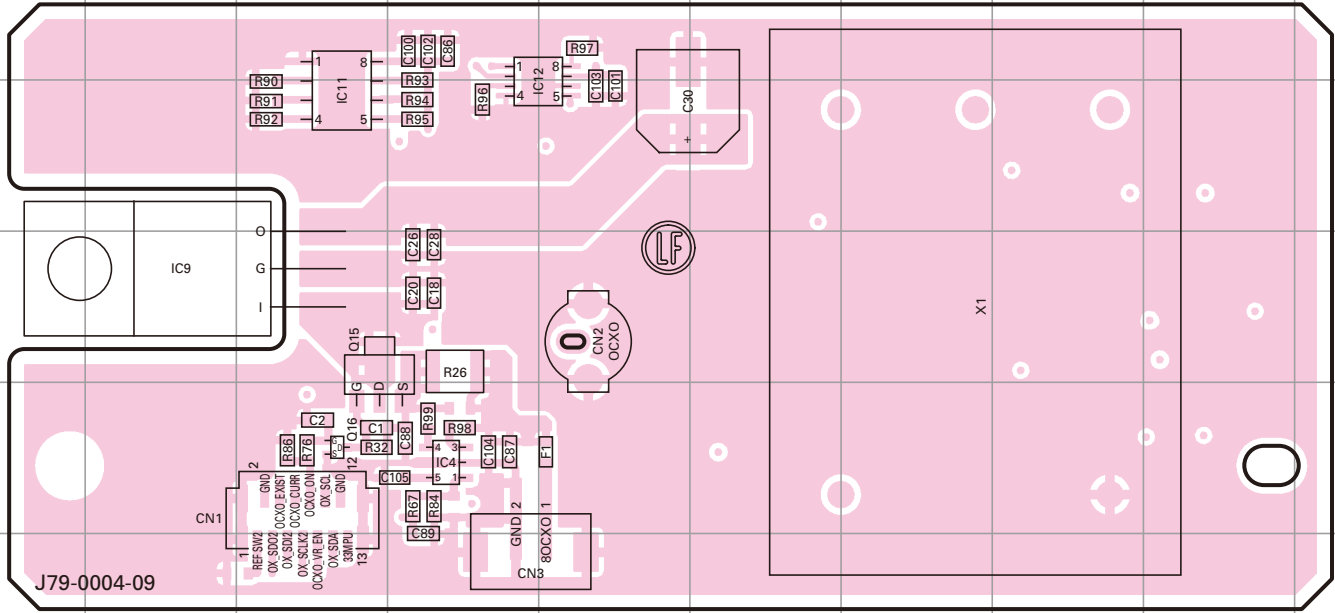
Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	5G	Q2	6B	Q17	4D	D6	8D	D23	8D
IC2	5J	Q3	4C	Q19	5G	D7	8B	D24	8C
IC3	5I	Q4	6P	Q20	6F	D8	8B	D26	7G
IC5	6J	Q5	6P	Q21	6F	D9	8A	D28	8E
IC8	6I	Q8	8G	Q22	7G	D10	8A	D29	8E
IC9	5H	Q9	8G	Q23	7G	D11	8B	D30	8E
IC12	7J	Q10	6M	Q25	6F	D12	8D	D31	8E
IC14	6J	Q11	8D	Q27	8E	D13	8D	D32	8E
IC19	5J	Q12	6L	Q28	8E	D14	9C	D33	8E
IC20	5H	Q13	8D	Q29	8E	D15	8C	D36	9C
IC21	7I	Q14	6C	D3	8B	D16	8C	D37	8B
IC26	7J	Q15	6C	D4	8B	D17	9C	D38	4F
IC50	4G	Q16	4D	D5	8D	D18	9C	D39	6G



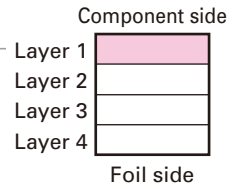
NXR-800H OPTIONAL ACCESSORIES / 可选附件: KXK-3 (OCXO UNIT / OCXO单元)

PC Board / PC板

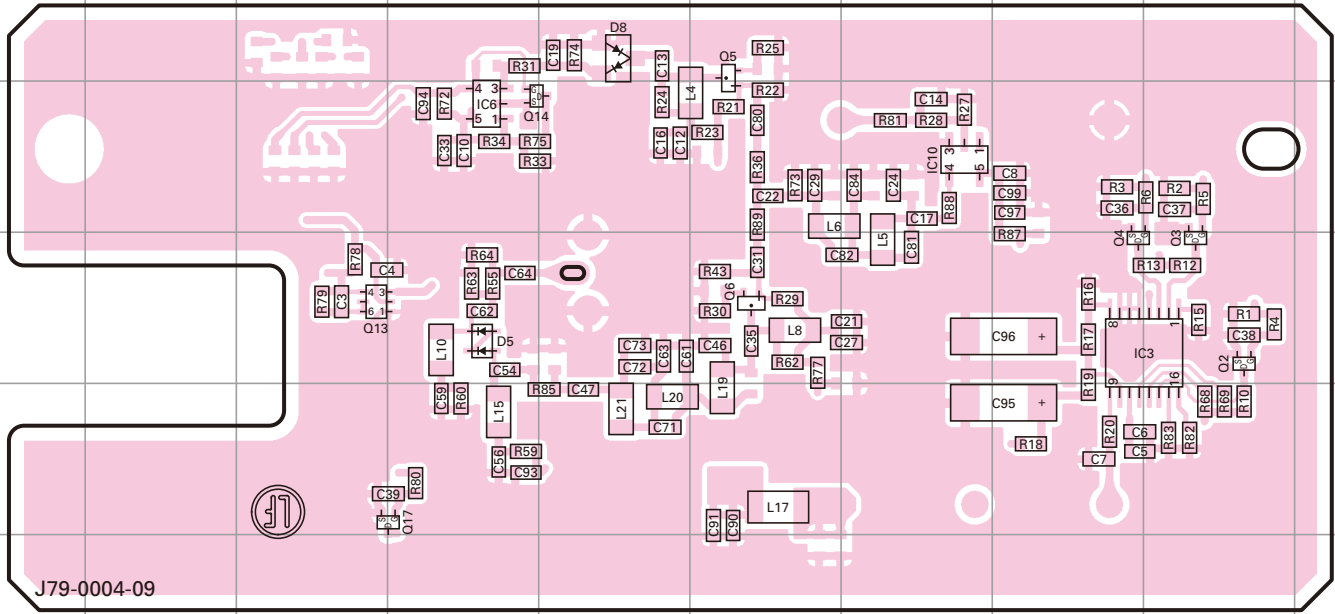
ACCESSORY UNIT (X42-3280-20) Component side view (J79-0004-09)



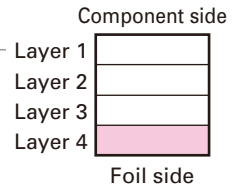
Ref. No.	Address	Ref. No.	Address
IC4	5D	Q15	4C
IC11	3C	Q16	5C
IC12	3D		

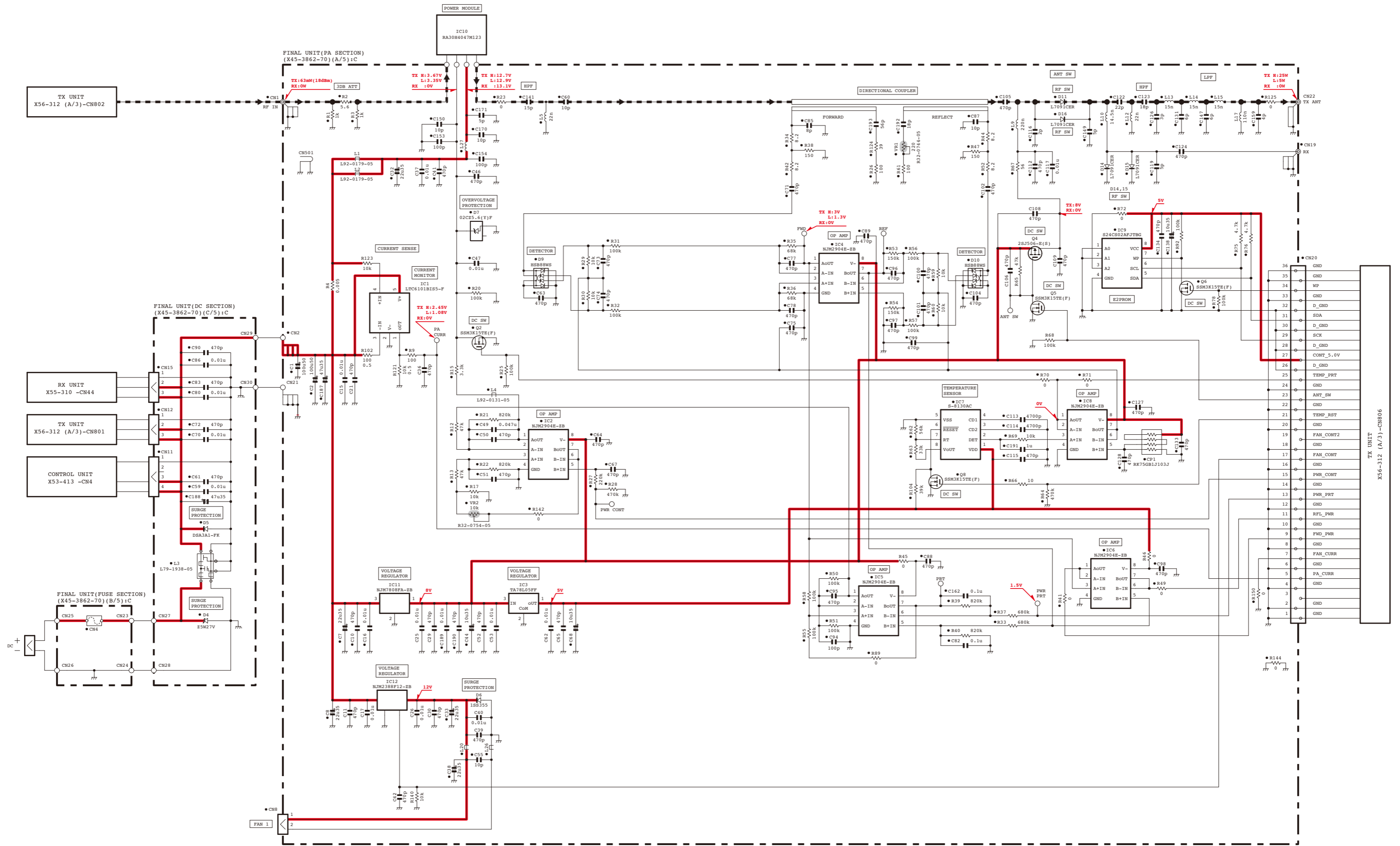


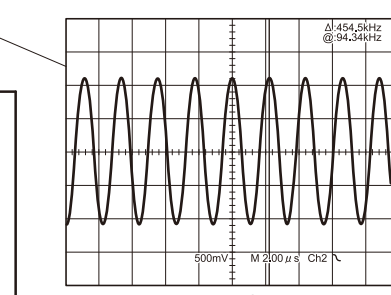
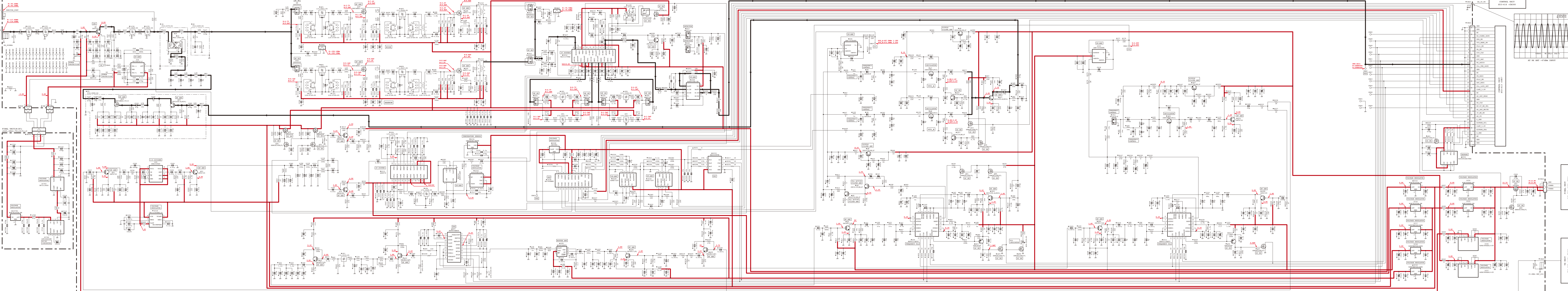
ACCESSORY UNIT (X42-3280-20) Foil side view (J79-0004-09)



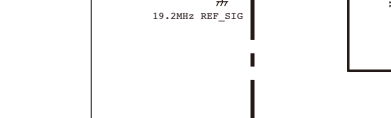
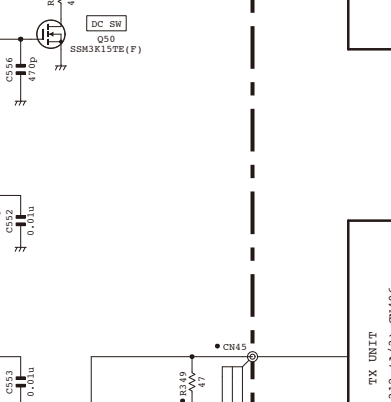
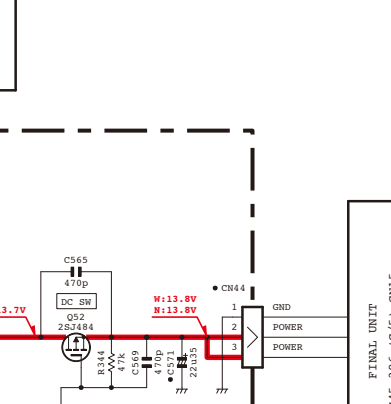
Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC3	10I	Q3	10I	Q13	10C	D8	8E
IC6	9D	Q4	10H	Q14	9D		
IC10	9G	Q5	8F	Q17	11D		
Q2	10I	Q6	10F	D5	10D		

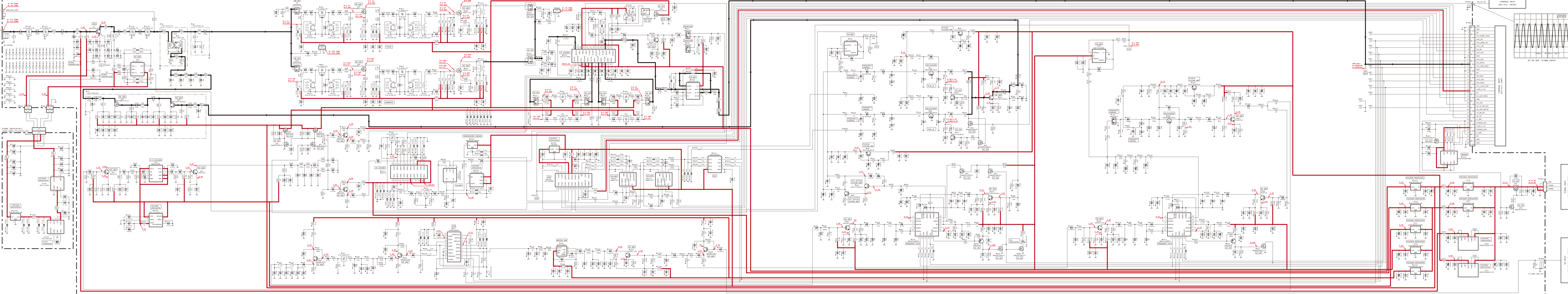






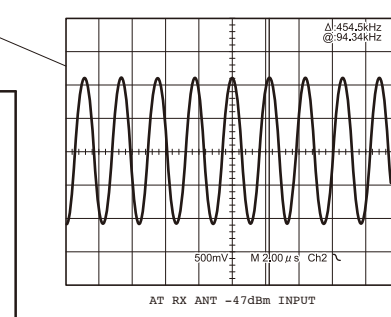
Pin	Signal Name
1	RF
2	RF
3	RF
4	RF
5	RF
6	RF
7	RF
8	RF
9	RF
10	RF
11	RF
12	RF
13	RF
14	RF
15	RF
16	RF
17	RF
18	RF
19	RF
20	RF
21	RF
22	RF
23	RF
24	RF
25	RF
26	RF
27	RF
28	RF
29	RF
30	RF





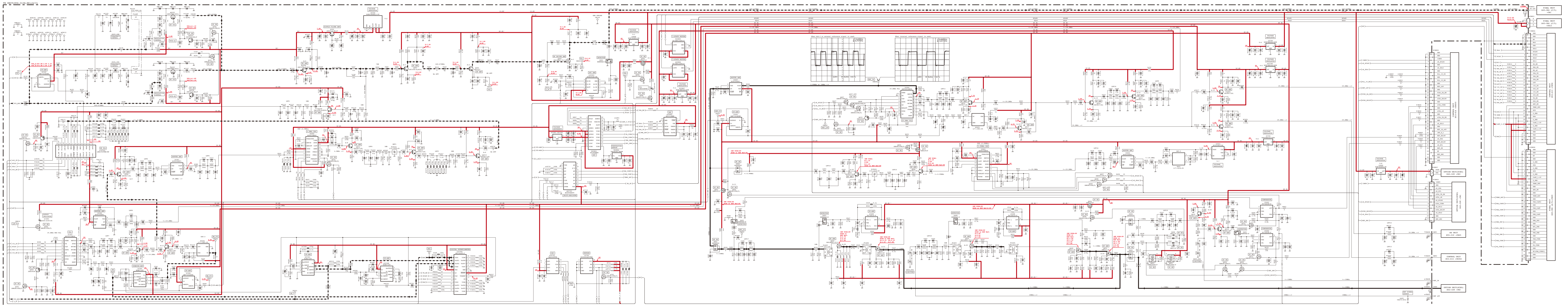
CONTROL UNIT
X33-114 -CN309

Pin	Signal
1	RF_RX
2	RF_TX
3	RF_POWER_SAVE
4	RF_RX
5	RF_TX
6	RF_TX
7	RF_TX
8	RF_TX
9	RF_TX
10	RF_TX
11	RF_TX
12	RF_TX
13	RF_TX
14	RF_TX
15	RF_TX
16	RF_TX
17	RF_TX
18	RF_TX
19	RF_TX
20	RF_TX
21	RF_TX
22	RF_TX
23	RF_TX
24	RF_TX
25	RF_TX
26	RF_TX
27	RF_TX
28	RF_TX
29	RF_TX
30	RF_TX
31	RF_TX
32	RF_TX
33	RF_TX
34	RF_TX
35	RF_TX
36	RF_TX
37	RF_TX
38	RF_TX
39	RF_TX
40	RF_TX



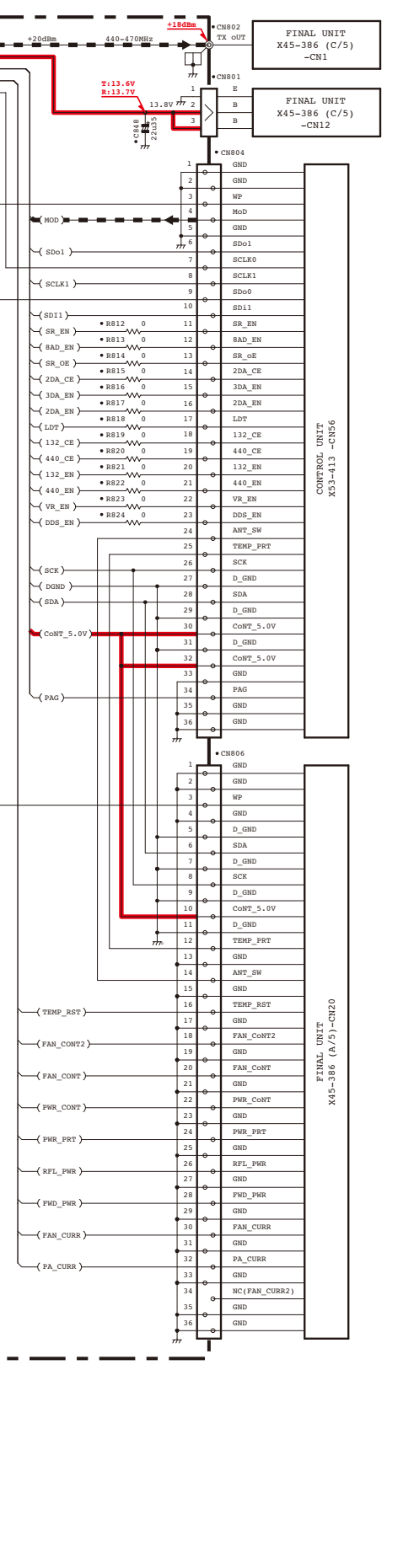
FINAL UNIT
RF-AMP (U33-114)

RF UNIT
RF-AMP (U33-114)

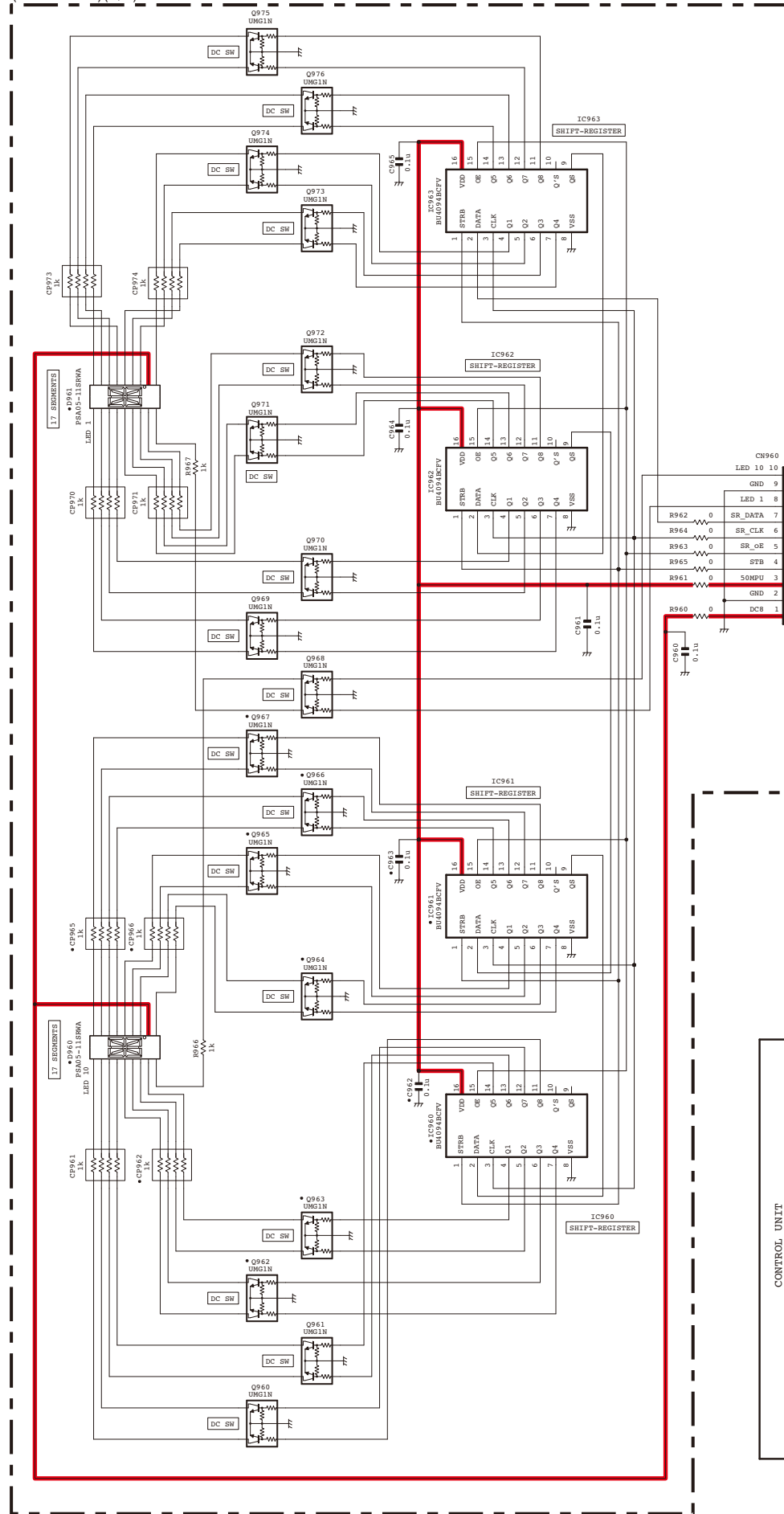


X56-312X	XX	C132	C133	C134	C136	C142	C145	C182	C183	C186	C189	C193	C194	R179	R182	R334	R883	R884		
Q-12	C2	9p	12p	22p	9p	12p	12p	12p	12p	12p	12p	12p	12p	12p	12p	12p	100k	100k	0	NO
2-71	C	9p	7p	10p	9p	9p	10p	9p	12p	10p	8p	9p	10p	330k	100	100k	NO	0		

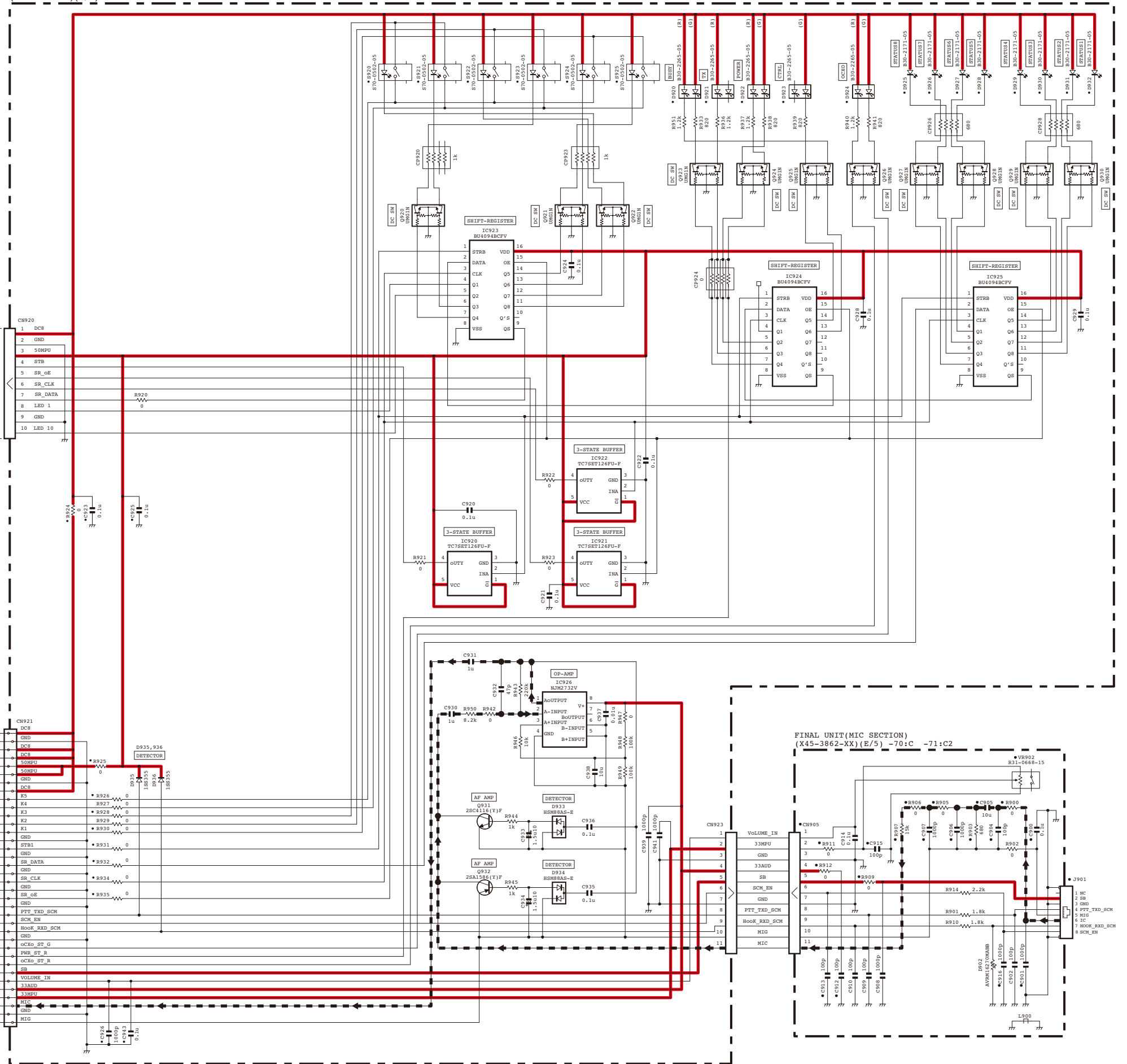
X56-312X	XX	C214	R141	R142	R336
Q-12	C2	470p	R2	330	22k
2-71	C	10p	100	220	27k



TX UNIT (17SEG)
(X56-312X-XX) (C/3) 0-12:C2 2-71:C

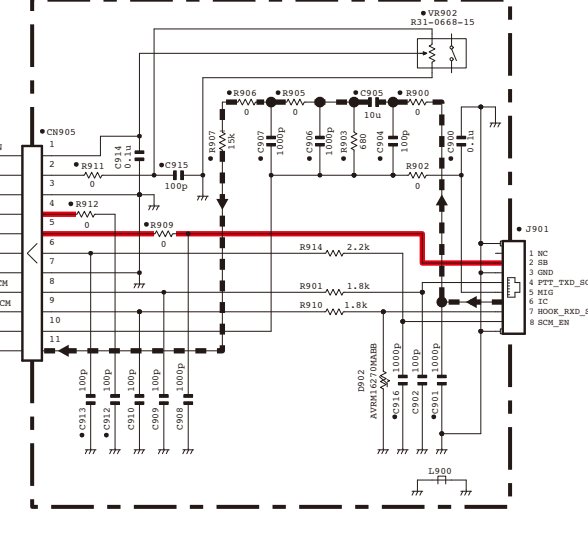


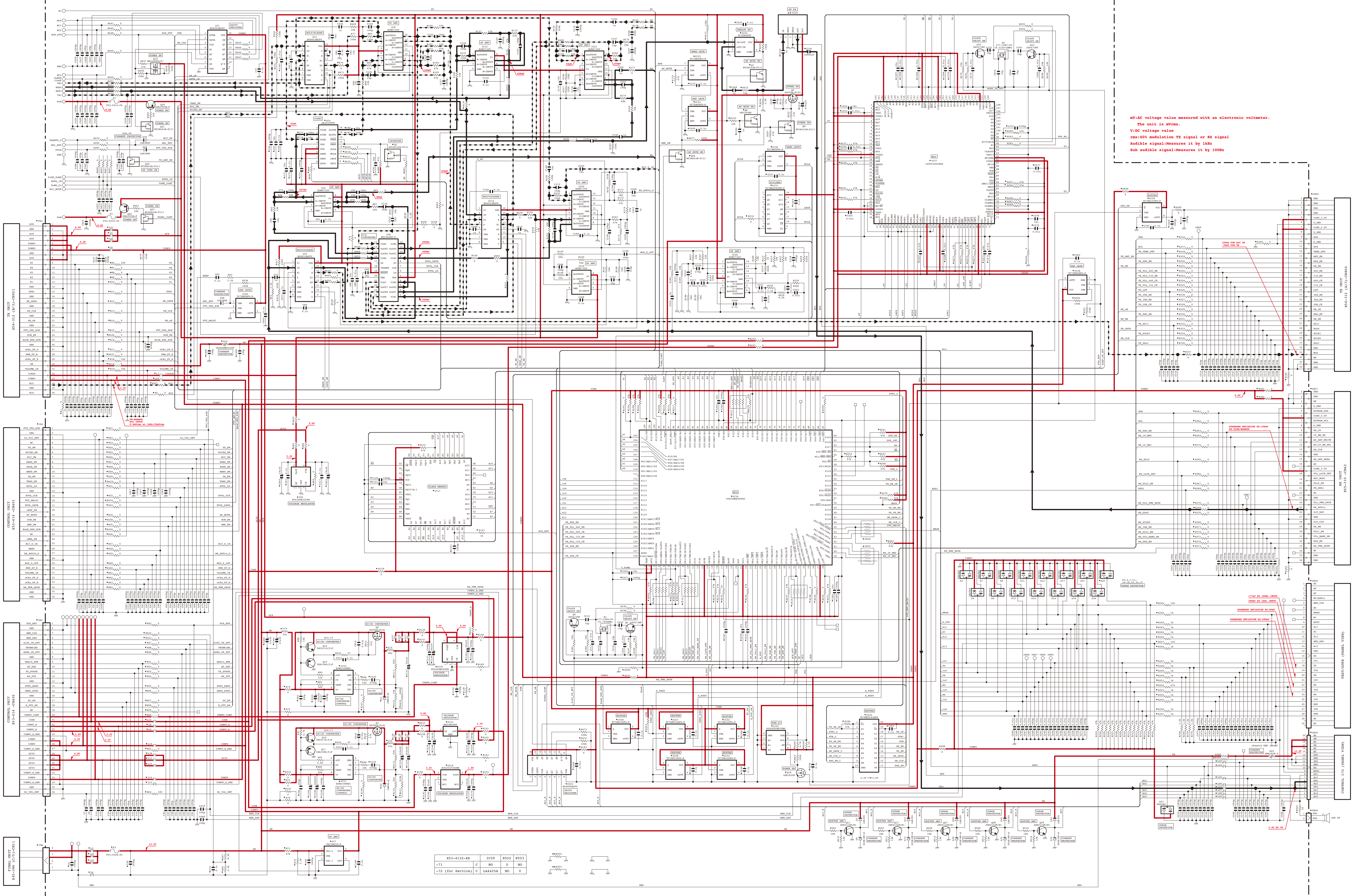
TX UNIT (LED)
(X56-312X-XX) (B/3) 0-12:C2 2-71:C



CONTROL UNIT
X53-413 -CN3

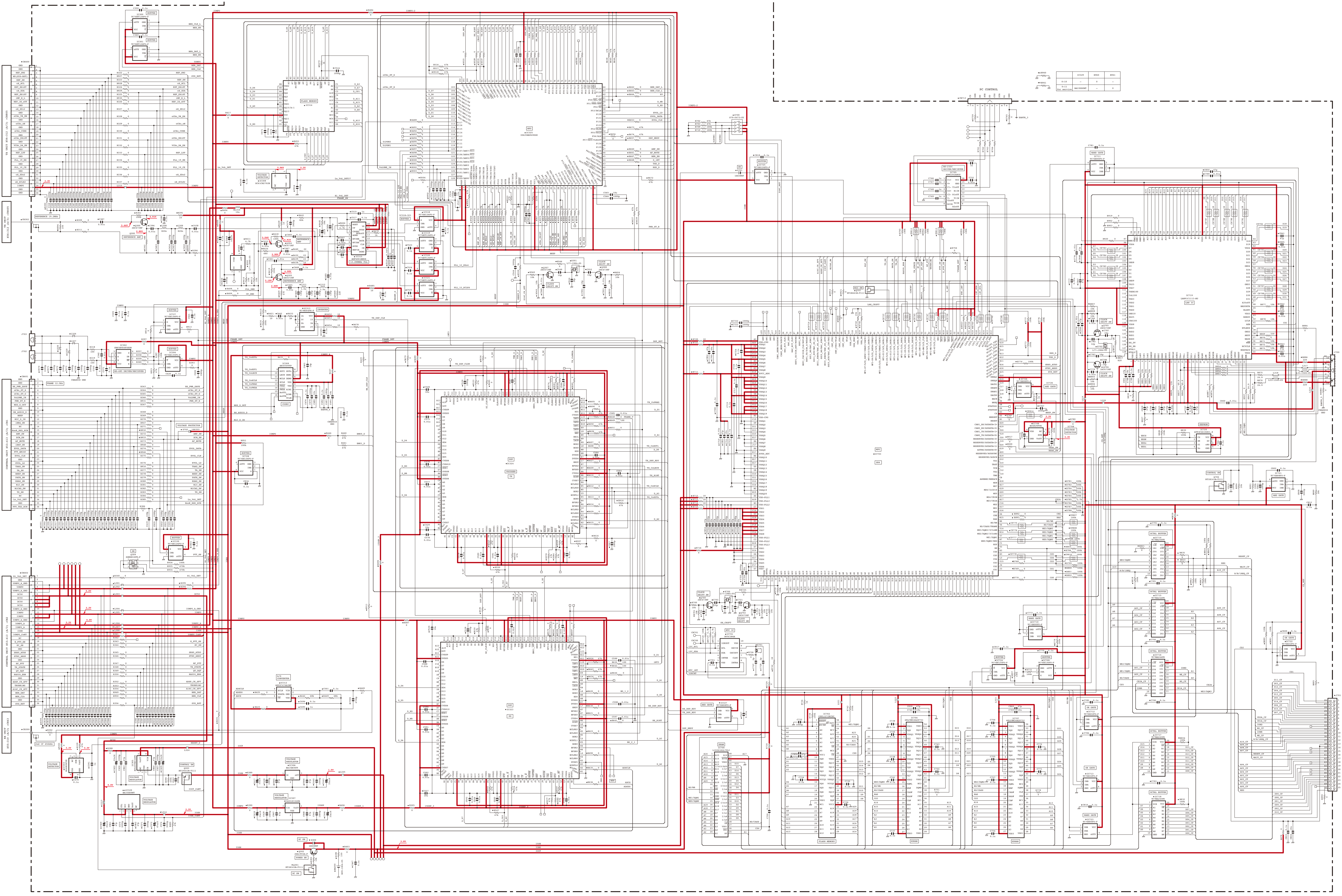
FINAL UNIT (MIC SECTION)
(X45-3862-XX) (E/5) -70:C -71:C2



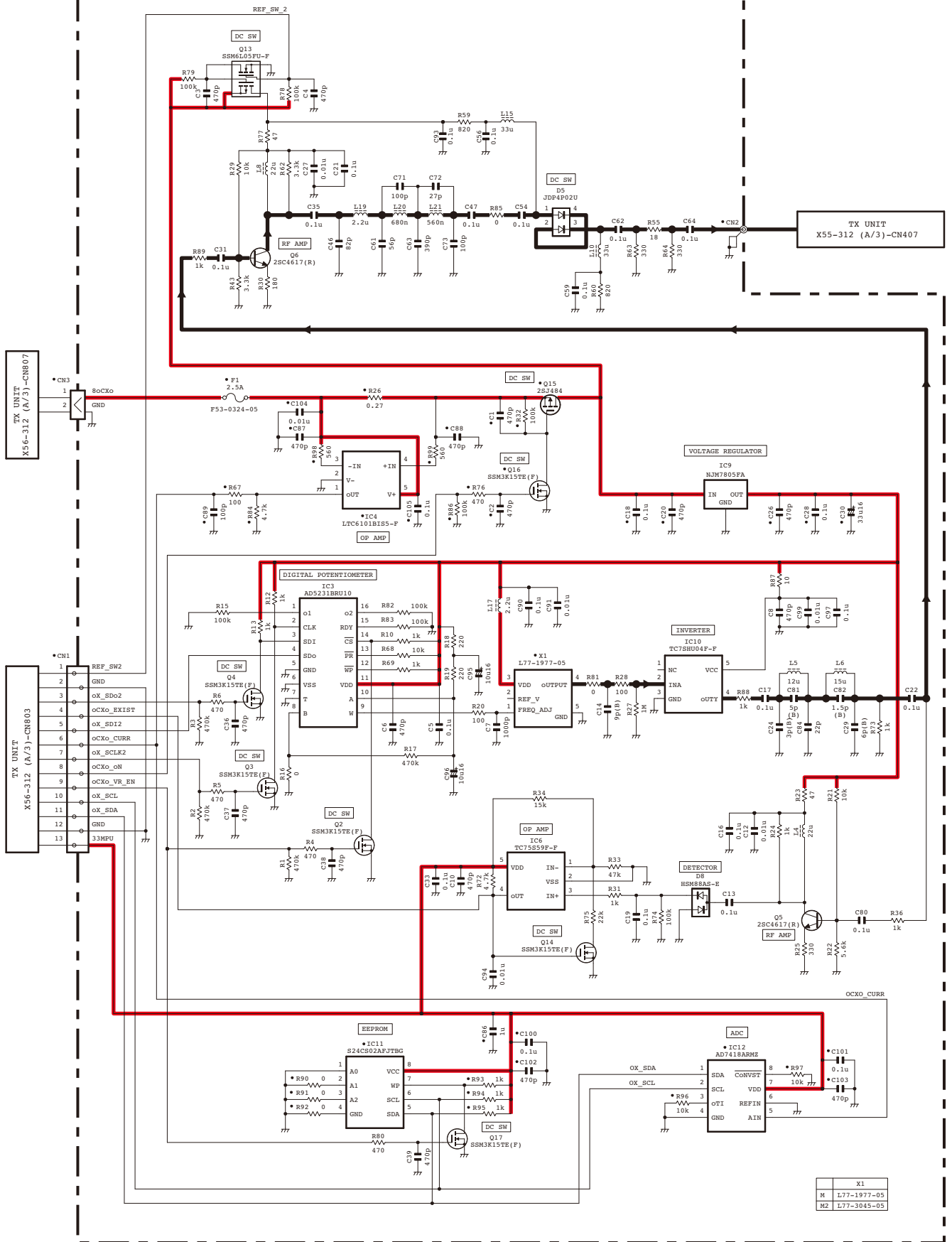


mV/AC voltage value measured with an electronic voltmeter.
 the unit is mVrms.
 V/DC voltage value
 rms/60 modulation TX signal or RX signal
 Audible signal: Measures it by kHz
 Sub audible signal: Measures it by 100Hz

X53-4132-XX				
IC99	IC98	IC97	IC96	IC95
-71	-72 (for Rev.01)	C	300	0
		C	1A1425A	300
		0		0



OPTION UNIT(OCXO) (X42-3280-20)



- | | | |
|---|-------------------|---------------|
| B | : | N09-2292-05 |
| C | M2 x 8 | : N30-2008-43 |
| D | M2.6 x 6 | : N30-2606-48 |
| E | M3 x 35 | : N30-3035-43 |
| F | M3 x 6 (F) | : N32-3006-43 |
| G | M4 x 8 (F) | : N32-4008-43 |
| H | : | N67-3008-48 |
| J | : | N80-2006-43 |
| K | : | N80-2608-43 |
| L | M2.6 x 8 (Br-Tap) | : N87-2608-48 |

