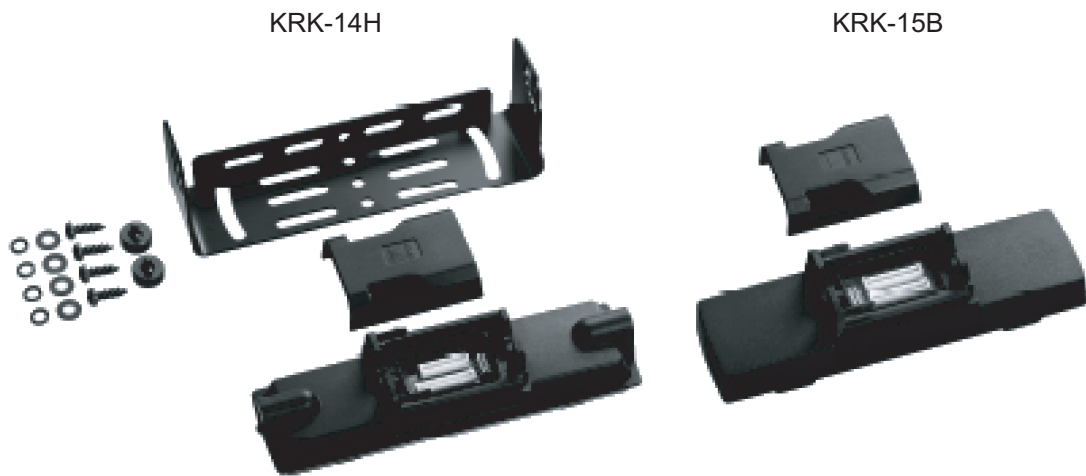


KENWOOD

SERVICE MANUAL

CONTROL HEAD INTERFACE KIT, CONTROL HEAD REMOTE KIT

KRK-14H, KRK-15B



Note :

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

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



This product uses Lead Free solder.

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Disclaimer

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SECTION 1 PRECAUTION

This service manual does not describe PRECAUTION.

SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

2.1 INSTALLATION

2.1.1 Installing the Remote Kit (KRK-14H, KRK-15B)

The KRK-14H and KRK-15B remote kit is used to remotely operate the NX-5700/5800 series transceiver.

The KRK-14H is connected to the NX-5700/5800 or KCH-19 operation panel with the KCT-71 remote control cable.

The KRK-15B is connected to the NX-5700/5800 RF Deck with the KCT-71.

Note:

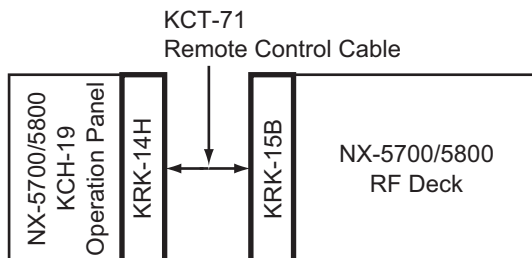
The KRK-14H has the common firmware of the NX-5700/5800.

When turning the transceiver power ON in the state from which the firmware version of the NX-5700/5800 RF Deck and KRK-14H is different, the firmware programming mode will start up automatically, and "FIRMWARE PROG" is displayed on the LCD.

In this case, rewrite the newer version firmware.

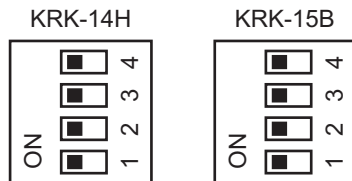
The firmware is written into the NX-5700/5800 RF Deck and KRK-14H at the same time.

2.1.2 Connection image



2.1.3 DIP Switch setting

All DIP switches for single remote (KRK-14H and KRK-15B) must be set as "ON".



2.1.4 Remove the Operation panel from the transceiver (NX-5700, NX-5800 only)

- (1) Lift the two tabs of the panel on the bottom of the transceiver with a flat-head screwdriver and remove the panel from the chassis. (Fig. 1)



Fig.1

- (2) Remove the flat cable from the display unit connector (CN6) of the panel.
- (3) Remove the cable from the display unit connector (CN2) of the panel.

2.1.5 Install the KRK-15B onto the NX-5700, NX-5800 RF Deck

- (1) Insert the cable into the interface unit (XC3-0090-20) connector (CN2) of the KRK-15B.
- (2) Insert the flat cable into the interface unit connector (CN1) of the KRK-15B. (Fig. 2)

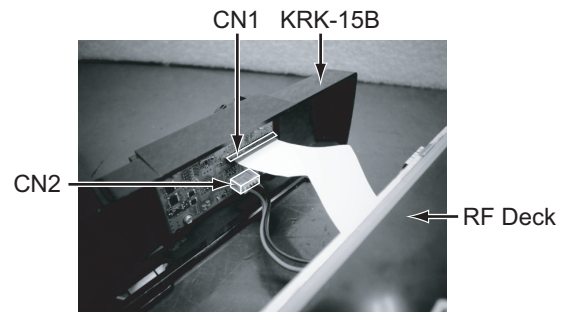


Fig.2

Note:

The blue line of the flat cable and the flap of connector are as same side.

After inserting, the flat cable should be locked with the connector (flap) surely.

- (3) Fit the KRK-15B with four tabs onto the front of the chassis. (Fig. 3)



Fig.3

Note:

When installing the KRK-15B onto the front of the chassis, hold down the flat cable with your fingers to prevent it from being caught.

2.1.6 Install the KRK-14H onto the NX-5700, NX-5800 or KCH-19 operation panel

- (1) Insert the cable attached to the interface unit (XC3-0080-20) of the KRK-14H into the display unit connector (CN2) of the panel.
 - (2) Insert the flat cable attached to the interface unit of the KRK-14H into the display unit connector (CN6) of the panel. (Fig. 4)
- (The two cables have been pre-inserted in the connector (CN35, CN37) of the KRK-14H.)

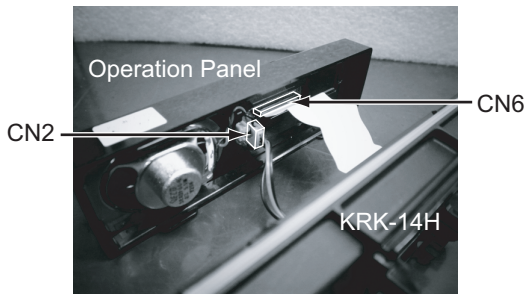


Fig.4

Note:

The blue line of the flat cable and the flap of connector are as same side. After inserting, the flat cable should be locked with the connector (flap) surely.

- (3) Fit the four tabs of the KRK-14H into the operation panel.

Note:

Fit so that the flat cable towards the way of the arrow using a finger. (Fig. 5)

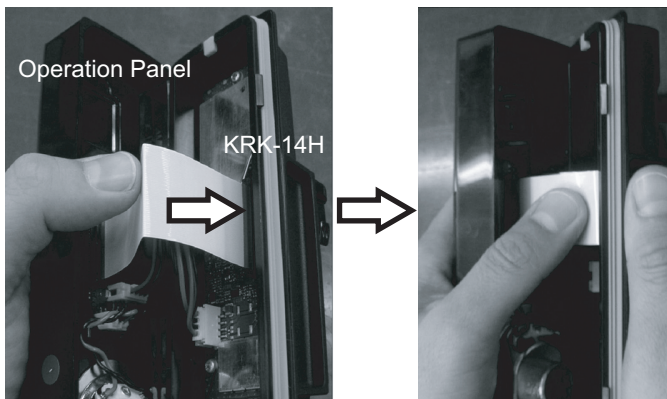
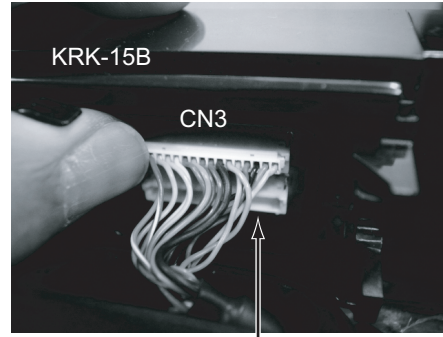


Fig.5

2.1.7 Connect the KRK-15B and KRK-14H with the KCT-71

- (1) Insert one lead wire with connector of the KCT-71 into the connector (CN3) of the KRK-15B. (Fig. 6)



KCT-71 lead wire with connector
Fig.6

- (2) Secure the cable bush as shown in the figure 7 and attach the dust cover.

Note:

There is a direction to the installing of the cable bush.



Cable Bush
Fig.7

- (3) Slide the molding cover so as not to float the dust cover and attach so that it is locked. (Fig. 8)

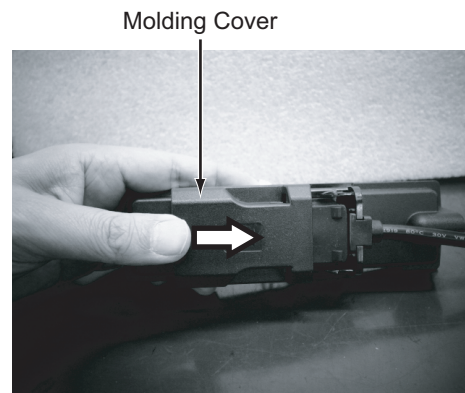


Fig.8

- (4) Insert the other lead wire with connector of the KCT-71 into the connector (CN1) of the KRK-14H.
- (5) Attach the dust cover and molding cover in the same way of step 2 and 3.

2.2 CIRCUIT DESCRIPTION

2.2.1 KRK-14H

2.2.1.1 Overview

KRK-14H is an optional unit designed to separate the Mobile transceiver and Basic type panel (KCH-19) by remote control cable (KCT-71). KRK-14H communicates with Mobile transceiver in a serial bus and controls Basic type panel. This unit consists of a power supply circuit, audio circuit, and control circuit.

2.2.1.2 Power supply circuit

SB (Switched +B Power) is supplied from Mobile transceiver via CN1. IC1, IC2, A1, and IC4 are step down switching regulator. IC1 regulates 5.3V (53DC) from SB. 53DC is the power source of D-class audio amplifier, CAN transceiver, and regulator (IC6). IC6 regulates 5.0V (50D). 50D is supplied to level shift circuits and a part of audio circuits. IC2 regulates 3.9V (39DC) from SB. 39DC is the power source of regulators (A1, IC3, IC4, and IC5). A1 regulates 1.2V (12D), IC4 regulates 1.8V (18D), IC3 regulates 3.3V (33A), and IC5 regulates 3.3V (33D).

12D is supplied to MPU core. 18D is supplied to MPU, Mobile DDR, Codec DSP core, In MPU memory interface work with 1.8V power supply (18D). The I/O section of the NOR flash memory works with a 1.8V power supply. It must be supplied after 33D is powered up. Therefore, the 1.8V power supply of flash memory is supplied through switch IC (IC7) which is controlled by 33D. 33A is the power source of audio circuits. Those are operational amplifiers and the analogue section in Codec IC. 33D is the power source of I/O section of MPU, Codec, and CAN transceiver. The power source of flash memory is 33D, too. During the SB supplies, all regulators work.

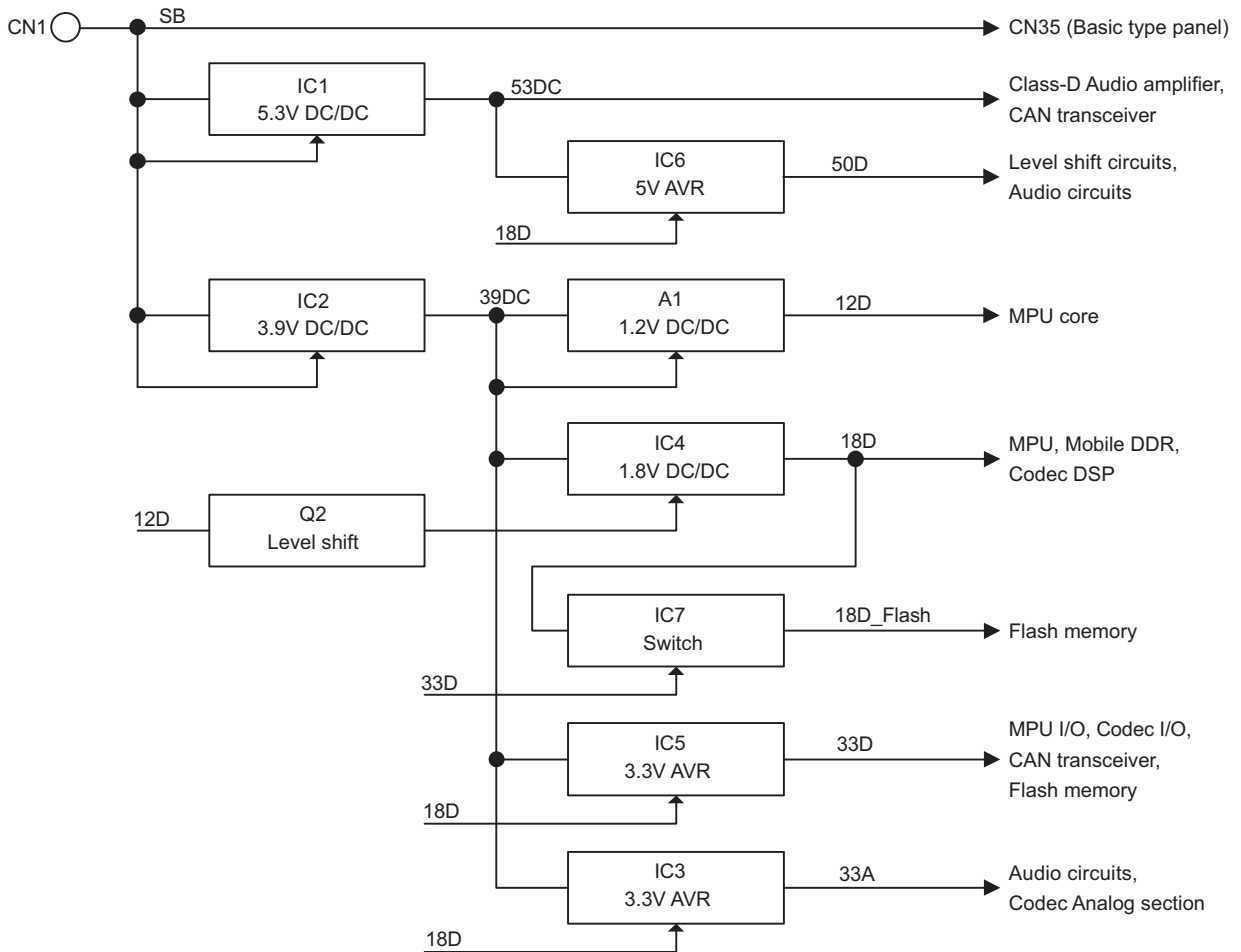


Fig.1 Power supply circuit

2.2.1.3 Audio circuit

2.2.1.3.1 RX Audio

KRK-14H has two RX Audio input channels, AFIA+/- and AFIB+/- . And the MPU selects the one of the two channels, and input it to codec IC (IC17). (The channel to use is notified by serial communication from RF Deck.)

The codec IC adjusts RX Audio signal amplitude equal to the value of selected volume step, and output it. That output signal is converted to balanced signal by operational amplifier (IC19). And converted signal goes to Class-D audio amplifier (IC25). The audio amplifier is controlled to shutdown or power-up, by MPU.

2.2.1.3.2 TX Audio

KRK-14H has two microphone input channels. One is connected to Basic type panel (KCH-19), other is connected to external interface connector (CN2). Two microphone signals are selected by analog multiplexer IC (IC20), and inputted to microphone amplifier. The microphone amplifier consists of operational amplifier and AGC. And its output is connected to Codec IC. The total gain of amplifiers in Codec IC is set to 0dB. The output signal of codec IC is converted to balanced signal by operational amplifier (IC13). The converted signals are switched by analog switch IC (IC11, IC12), and output to either MICA+/- or MICB+/- . The output channel is notified from RF Deck by serial communication.

2.2.1.4 Control circuit

The control circuit consists of MPU (IC16) and its peripheral circuits. IC16 mainly performs the followings;

- (1) Serial communication between RF deck and KRK-14H
- (2) Controlling the audio circuits including codec IC
- (3) Controlling the display

2.2.1.4.1 MPU

The MPU is 32bit RISC processor, equipped with peripheral functions. The maximum operating clock of MPU is 288MHz, and power source are 3.3V/ 1.8V/ 1.2V DC. The MPU controls the flash memory, Mobile DDR, the audio circuits, the Key detection IC which is on Basic type panel, external I/O circuit, and the display (LCD).

2.2.1.4.2 Memory Circuit

Memory circuit consists of the MPU and the Mobile DDR (IC23), the flash memory (IC29). The flash memory has capacity of 256Mbit that contains the program for the MPU and stores the data. That program can be easily updated from external devices. The Mobile DDR has capacity of 512Mbit. The MPU copies the program from the flash memory to the Mobile DDR. The MPU uses the Mobile DDR as a work area.

2.2.1.4.3 LCD control interface

The MPU controls LCD which is in Basic type panel (KCH-19) through the panel interface connector (CN37). LCD is controlled by parallel bus with 16bit data width.

2.2.1.4.4 Key detection

The MPU can detect the keys of Basic type panel (KCH-19). In the Basic type panel, the keys are connected to I/O expander IC which has key matrix function. When the key was pushed, I/O expander IC scans which key is pushed. Then an interrupt occurs for a MPU from an I/O expander IC. The MPU reads the registers of I/O expander IC after an interrupt occurs, and checks which key is pushed.

2.2.1.4.5 External I/O

KRK-14H has external interface connector (CN2). That interface has two output and two input terminals. The output terminal is open collector type. The input terminal has level shift circuit, it permits input the 5V signal.

2.2.2 KRK-15B

2.2.2.1 Overview

KRK-15B is an optional unit designed to separate the Mobile transceiver and Basic type panel (KCH-19) by remote control cable (KCT-71). KRK-15B communicates with Mobile transceiver in a serial bus and controls Basic type panel. This unit consists of a power supply circuit, audio circuit, and control circuit.

2.2.2.2 Power supply circuit

54M (5.4V DC Power) is supplied from Mobile transceiver via CN1. 54M is power source of IC2 (CAN Transceiver) and IC3 (33D, 3.3V regulator). 33A (3.3V DC Power) is power source of Audio circuits.

33M (3.3V DC Power) is supplied from Mobile transceiver via CN1. 33M is power source of IC7 (I/O Expander).

SB (Switched +B Power) is supplied from Mobile transceiver via CN2. SB is power source of Control head interface kit (KRK-14H).

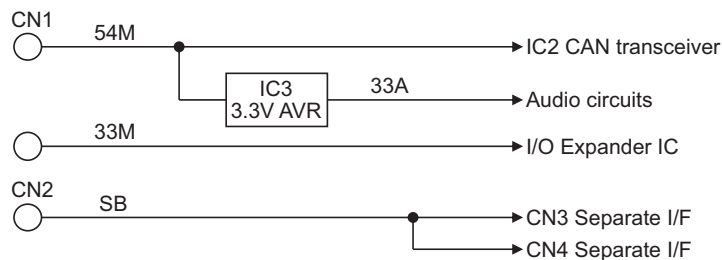


Fig.1 power supply circuit

2.2.2.3 Audio circuit

2.2.2.3.1 Audio circuit overview

KRK-15B has one RX Audio input channel (AFI+/-), two RX Audio output channels (AFOA+/- and AFOB+/-), one TX Audio output channel (MIC/ ME), and two TX input channels (MICA+/- and MICB+/-). Selection of Audio input / output channels (AFOA/ AFOB/ MICA/ MICB) and other audio path are controlled by Mobile transceiver's MPU through I/O expander IC (IC7).

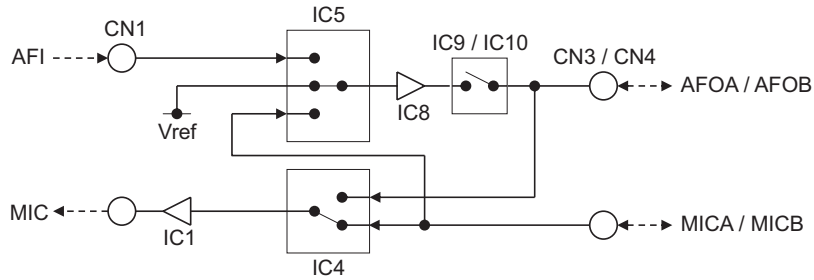


Fig.2 Simplified audio circuit

2.2.2.3.2 RX Audio path

Speaker voice sounds of KCH-19 which received by Mobile transceiver are passed through KRK-15B and KRK-14H.

Receive audio for KRK-14H given from AFI+/- has outputted to AFOA+/- or AFOB+/- terminal through IC5, IC8, IC9 and IC10 as follows.

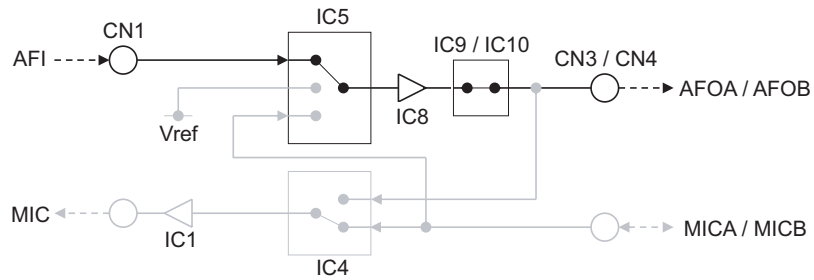


Fig.3 RX audio path

2.2.2.3.3 TX Audio path

Microphone signals Mobile transceiver which given by KCH-19 are passed through KRK-14H and KRK-15B.

Transmit audio given from MICA+/- or MICB+/- have outputted to MIC / ME terminal through IC4 and IC1 as follows.

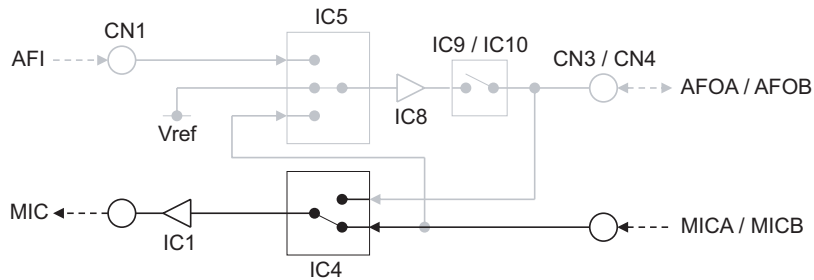


Fig.4 TX audio path

2.2.2.4 Control circuit

The control circuit consists of followings;

- (1) Convert serial communication signal (IC2)
- (2) Convert audio path control signal from Mobile transceiver (IC7).

2.3 COMPONENTS DESCRIPTION

2.3.1 Interface unit (XC3-0080-20) (KRK-14H)

Ref.No	Part Name	Description
IC1	IC	DC/DC converter (53DC)
IC2	IC	DC/DC converter (39DC)
IC3	IC	Voltage regulator (33A)
IC4	IC	DC/DC converter (18D)
IC5	IC	Voltage regulator (33D)
IC6	IC	Voltage regulator (50D)
IC7	IC	DC SW (18D)
IC8	IC	CAN transceiver IC
IC9~12	IC	Analog SW (AF)
IC13	IC	AF AMP
IC14	IC	AF/DC AMP (AF/25ref)
IC15	IC	AF AMP (RX AF)
IC16	IC	MPU
IC17	IC	Codec IC
IC18	IC	DC/AF AMP (Vref/AF)
IC19	IC	AF AMP
IC20	IC	Analog SW (AF)
IC21, 22	IC	Logic control
IC23	IC	SDRAM
IC25	IC	Audio power AMP (class D)
IC29	IC	Flash memory
Q1	FET	DC SW (Open drain)
Q2	FET	DC SW
Q3	FET	DC SW (Open drain)
Q4, 5	Transistor	DC SW
Q6	Transistor	MIC AGC
Q7~10	FET	DC SW
D1	Varistor	Over current prevention
D2, 3	Varistor	ESD protection
D4, 5	Diode	Reverse current prevention
D6	Diode	DC/DC converter (53DC)
D7	Diode	DC/DC converter (39DC)
D8, 9	Zener diode	Over voltage protection
D10	Diode	Reverse current prevention
D11, 12	Diode	MIC AGC detection
D13	Diode	Reverse current prevention
D15	Diode	Reverse current prevention

2.3.2 Interface unit (XC3-0090-20) (KRK-15B)

Ref.No	Part Name	Description
IC1	IC	AF AMP
IC2	IC	CAN transceiver IC
IC3	IC	Voltage regulator (33A)
IC4, 5	IC	Analog SW (AF)
IC6	IC	DC AMP (Vref)
IC7	IC	I/O expander
IC8	IC	AF AMP
IC9, 10	IC	Analog SW (AF)

2.4 TERMINAL FUNCTION

2.4.1 Interface unit (XC3-0080-20) (KRK-14H)

Pin No.	Name	I/O	Function
CN1			
1	/PRST	I	Reset signal
2	/PSW	O	Detection signal output of power switch
3	MICA+	O	MIC signal output plus_A
4	MICA-	O	MIC signal output minus_A
5	MICB+	O	MIC signal output plus_B
6	MICB-	O	MIC signal output minus_B
7	GND	-	Ground
8	NC	-	No connection
9	SB	I	Switched power supply
10	NC(IGN)	-	No connection (Ignition sense output)
11	AFiA+	I	AF signal input plus_A
12	AFiA-	I	AF signal input minus_A
13	AFiB+	I	AF signal input plus_B
14	AFiB-	I	AF signal input minus_B
15	CAN+	I/O	CAN data plus
16	CAN-	I/O	CAN data minus
CN2			
1	GND	-	Ground
2	NC	-	No connection
3	NC	-	No connection
4	Ao2	O	AUX output 2
5	Ao1	O	AUX output 1
6	Ai2	I	AUX input 2
7	Ai1	I	AUX input 1
8	AUX_ME	-	AUX MIC ground
9	AUX_MIC	I	AUX MIC signal input
10	GND	-	Ground
11	SB	O	Switched power supply
12	IGN	I	Ignition sense input
13	GND	-	Ground

Pin No.	Name	I/O	Function
CN35			
1	SP+	O	Speaker output plus
2	SP-	O	Speaker output minus
3	GND	-	Ground
4	SB	O	Switched power supply
CN37			
1	NC (IGN)	-	No connection (Ignition sense input)
2	NC	-	No connection
3	GND	-	Ground
4	54M	O	5.4V output
5	GND	-	Ground
6	GND	-	Ground
7	18M	O	1.8V output
8	D[15]	I/O	LCD driver data output
9	D[14]	I/O	LCD driver data output
10	D[13]	I/O	LCD driver data output
11	D[12]	I/O	LCD driver data output
12	D[11]	I/O	LCD driver data output
13	D[10]	I/O	LCD driver data output
14	D[9]	I/O	LCD driver data output
15	D[8]	I/O	LCD driver data output
16	D[7]	I/O	LCD driver data output
17	D[6]	I/O	LCD driver data output
18	D[5]	I/O	LCD driver data output
19	D[4]	I/O	LCD driver data output
20	D[3]	I/O	LCD driver data output
21	D[2]	I/O	LCD driver data output
22	D[1]	I/O	LCD driver data output
23	D[0]	I/O	LCD driver data output
24	/CS_LCD	O	LCD driver chip-select signal
25	A[23]	O	LCD driver data/command switch signal
26	/WR_LCD	O	LCD driver WR signal
27	/RD_LCD	O	LCD driver RD signal
28	PRST	O	LCD driver reset signal
29	/KEYINT	I	Key state change signal
30	I2CCK	O	I2C serial clock
31	I2CDT	I/O	I2C serial data
32	GND	-	Ground
33	USB_D-	I/O	USB0 PHY data minus
34	USB_D+	I/O	USB0 PHY data plus
35	GND	-	Ground
36	33M	O	3.3V output
37	DM/KVL	I/O	MIC data detection
38	GND	-	Ground
39	RXD	I	Serial data input

Pin No.	Name	I/O	Function
40	TXD	O	Serial data output
41	/PTT	I	PTT input
42	/PSW	I	Detection signal input of power switch
43	AFO+	O	AF signal output plus
44	AFO-	O	AF signal output minus
45	MIC	I	MIC signal input
46	ME	-	MIC ground
47	NC	-	No connection
48	NC	-	No connection
49	NC	-	No connection
50	GND	-	Ground

2.4.2 Interface unit (XC3-0090-20) (KRK-15B)

Pin No.	Name	I/O	Function
CN1			
1	GND	-	Ground
2	R_SET0	O	Radio setting signal 0
3	R_SET1	O	Radio setting signal 1
4	R_SET2	O	Radio setting signal 2
5	ME	-	MIC ground
6	MIC	O	MIC signal output
7	AFi-	I	AF signal input minus
8	AFi+	I	AF signal input plus
9	/PSW	O	Detection signal output of power switch
10	NC	-	No connection
11	TXD	I	Serial data input
12	RXD	O	Serial data output
13	GND	-	Ground
14	NC	-	No connection
15	33M	I	3.3V input
16	GND	-	Ground
17	NC	-	No connection
18	NC	-	No connection
19	GND	-	Ground
20	I2CDT	I/O	I2C serial data
21	I2CCK	O	I2C serial clock
22	/KEYINT	O	Key state change signal
23	/PRST	I	Reset signal
24	NC	-	No connection
25	NC	-	No connection
26	NC	-	No connection
27	NC	-	No connection
28	NC	-	No connection

Pin No.	Name	I/O	Function
29	NC	-	No connection
30	NC	-	No connection
31	NC	-	No connection
32	NC	-	No connection
33	NC	-	No connection
34	NC	-	No connection
35	NC	-	No connection
36	NC	-	No connection
37	NC	-	No connection
38	NC	-	No connection
39	NC	-	No connection
40	NC	-	No connection
41	NC	-	No connection
42	NC	-	No connection
43	NC	-	No connection
44	NC	-	No connection
45	GND	-	Ground
46	GND	-	Ground
47	54M	I	5.4V input
48	GND	-	Ground
49	NC	-	No connection
50	NC(IGN)	-	No connection (Ignition sense output)
CN2			
1	NC	-	No connection
2	NC	-	No connection
3	GND	-	Ground
4	SB	I	Switched power supply
CN3			
1	/PRST	O	Reset signal
2	/PSW	I	Detection signal input of power switch
3	MICA+	I	MIC signal input plus_A
4	MICA-	I	MIC signal input minus_A
5	MICB+	I	MIC signal input plus_B
6	MICB-	I	MIC signal input minus_B
7	GND	-	Ground
8	SB	O	Switched power supply
9	NC	-	No connection
10	NC(IGN)	-	No connection (Ignition sense input)
11	AFoA+	O	AF signal output plus_A
12	AFoA-	O	AF signal output minus_A
13	AFoB+	O	AF signal output plus_B
14	AFoB-	O	AF signal output minus_B
15	CAN+	I/O	CAN data plus
16	CAN-	I/O	CAN data minus

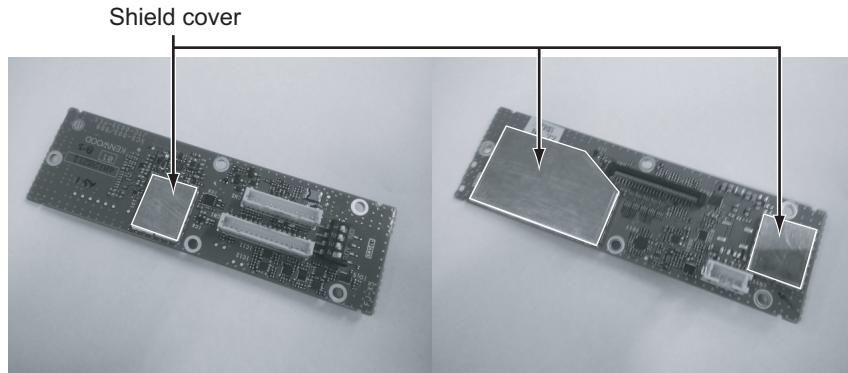
Pin No.	Name	I/O	Function
CN4			
1	/PRST	O	Reset signal
2	/PSW	I	Detection signal input of power switch
3	MICA+	I	MIC signal input plus_A
4	MICA-	I	MIC signal input minus_A
5	MICB+	I	MIC signal input plus_B
6	MICB-	I	MIC signal input minus_B
7	GND	-	Ground
8	SB	O	Switched power supply
9	NC	-	No connection
10	NC(IGN)	-	No connection (Ignition sense input)
11	AFoA+	O	AF signal output plus_A
12	AFoA-	O	AF signal output minus_A
13	AFoB+	O	AF signal output plus_B
14	AFoB-	O	AF signal output minus_B
15	CAN+	I/O	CAN data plus
16	CAN-	I/O	CAN data minus

SECTION 3 DISASSEMBLY

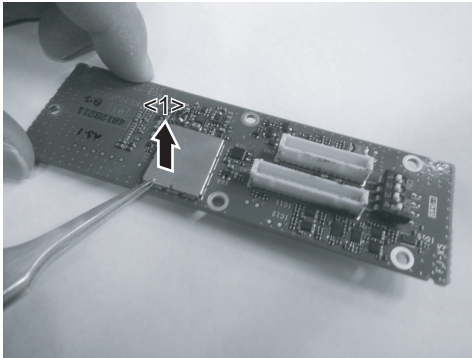
3.1 Precautions for Disassembly

3.1.1 Remove the top cover from the shield cover (KRK-14H only)

(1) There are three shield covers on the interface unit, the top covers can be removed.

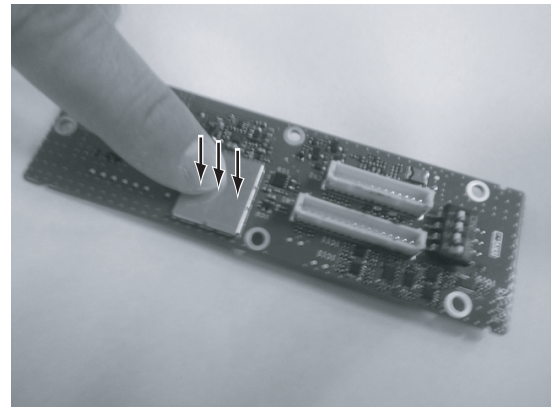


(2) Use tweezers to slightly lift the edge of the top cover. <1>



Note:

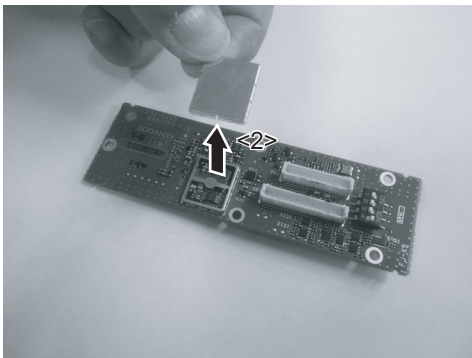
Push evenly on the top cover and be careful that you do not bend it as you install it on the shield cover.



(3) As you do step 2 above, vary the position you hold the top cover as you lift it, and remove the top cover <2>.

Note:

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



SECTION 4 ADJUSTMENT

This service manual does not describe ADJUSTMENT.

(There is no adjustment item on KRK-14H and KRK-15B.)

SECTION 5 TROUBLESHOOTING

5.1 KRK-14H Fault Diagnosis of the BGA (Ball Grid Array) IC

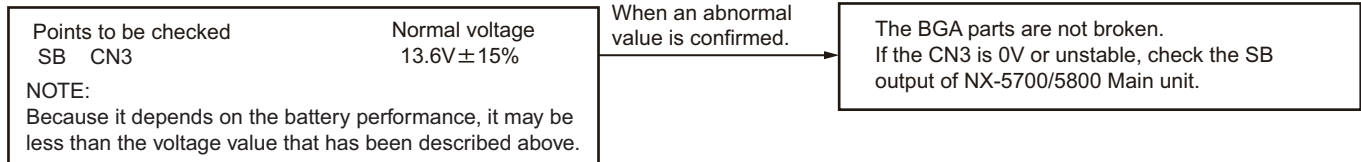
■ Overview

A flowchart for determining whether or not the transceiver can be powered on (the LCD does not function even if the power switch is turned on) due to broken BGA parts. As necessary, connect the NX-5700/5800 and KCH-19 directly. Confirm whether there is a defect in the KRK-14H and KRK-15B.

■ BGA parts

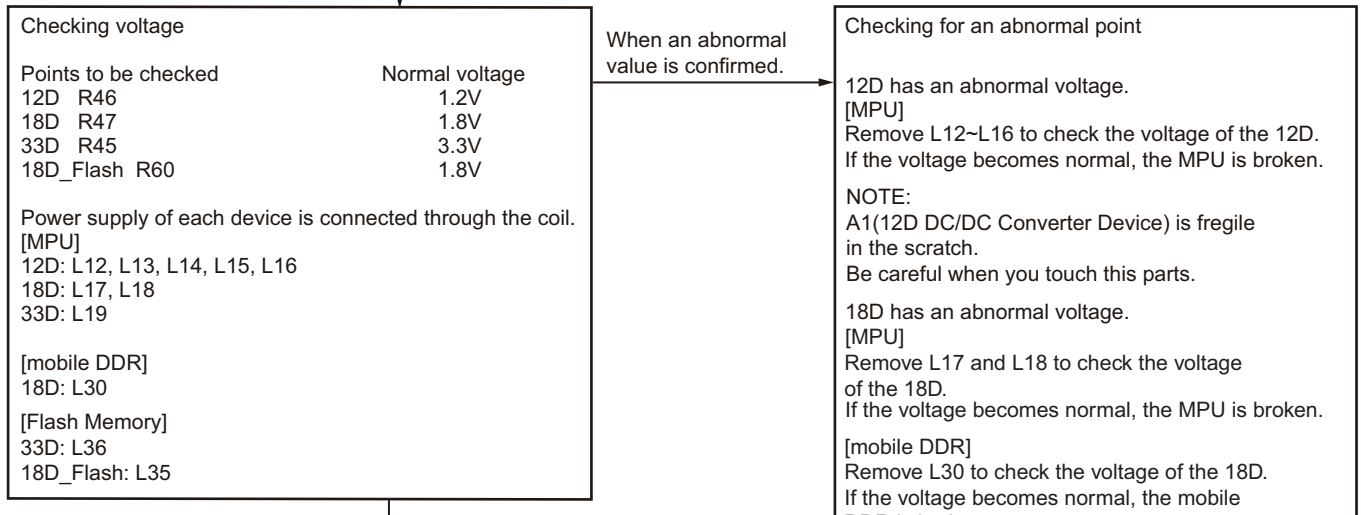
MPU (IC16), mobile DDR (IC23), Flash memory (IC29)

● Checking SB (Battery) voltage



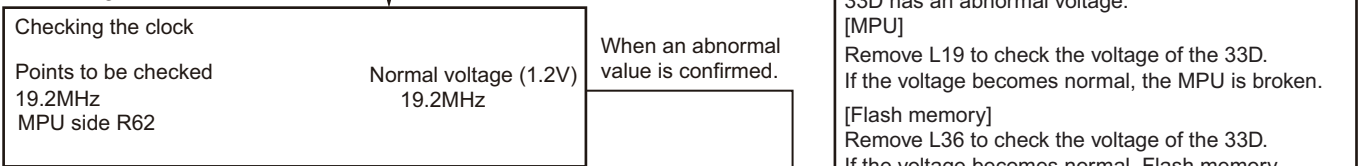
When a normal value is confirmed.

● Checking power supply voltage



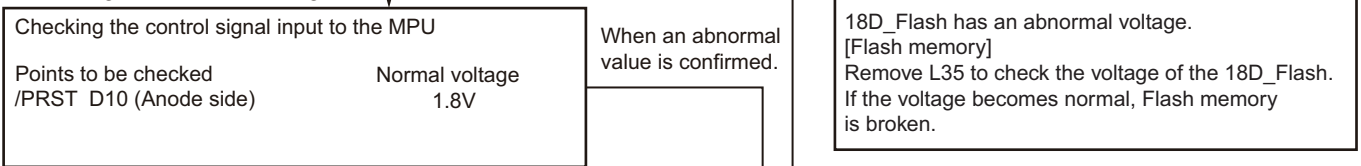
When a normal value is confirmed.

● Checking the clock



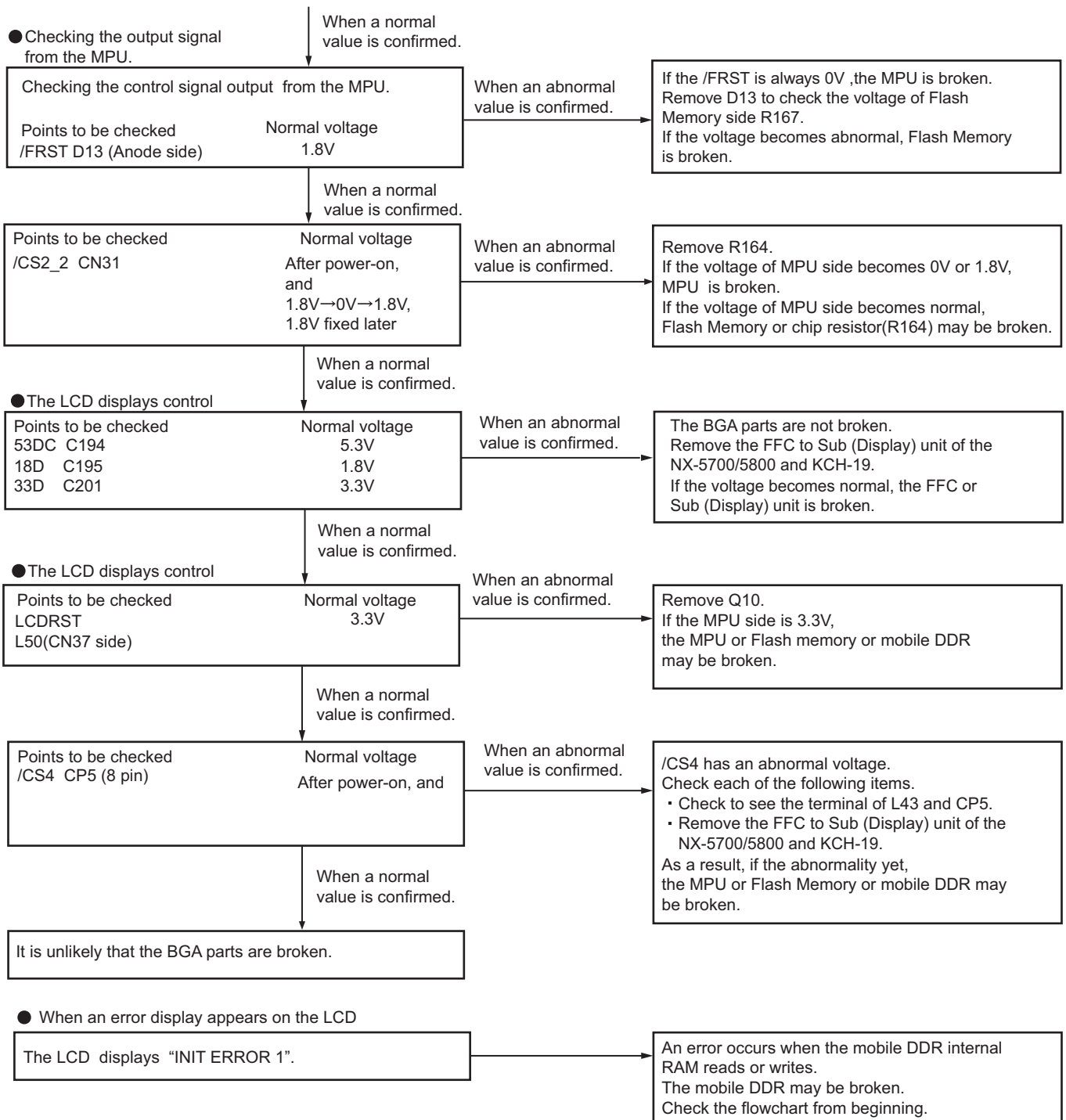
When a normal value is confirmed.

● Checking the Reset/Control signal



When a normal value is confirmed.

The BGA parts are not broken.



■ Descriptions of signal names

1) /PRST	:MPU reset signal	LOW → Reset
2) /FRST	:Flash Memory reset signal	LOW → Reset
3) /CS2_2	:Flash Memory chip select signal	LOW → Active
4) LCDRST	:LCD reset signal	LOW → (L50 CN37 side) → Reset
5) /CS_4	:LCD controller chip select signal	LOW → Active

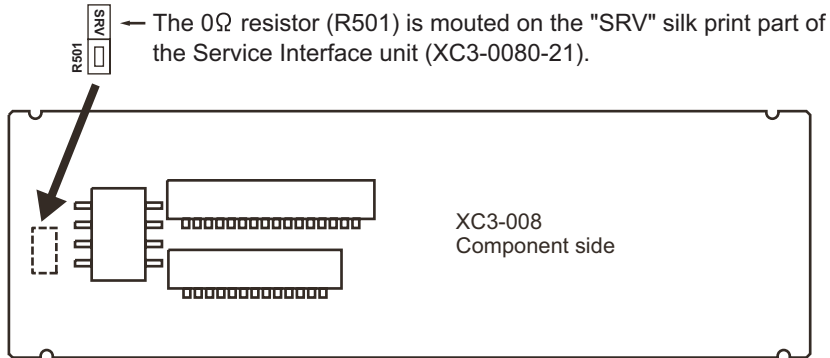
5.2 Replacing Interface Unit

■Interface Unit Information

Model Name	Original Interface Unit Number	For Service Interface Unit Number
KRK-14H	XC3-0080-20	XC3-0080-21

* The KRK-15B doesn't have a service interface unit. Please order normal interface unit (XC3-0090-20) listed in parts list.

■Method of confirming "Original Interface Unit" and "Service Interface Unit"



■Supplied Accessories of "Service Interface Unit"

Item (Including Parts Number)	Quantity
Interface Unit (XC3-008)	1

■"Service Interface Unit" Data

The following data is written on the service unit.

Data Type	Description
Firmware	NX-5700/5800 Firmware

■After Changing the PCB

After changing the printed circuit board, update Firmware following the instructions.

(1) Connection procedure

Connect the transceiver to the personal computer using the interface cable (KPG-46A/46U).

Note:

You can only program firmware from the 8-pin microphone connector on the NX-5700/5800 or KCH-19 front panel. Using the 25-pin logic interface (D-SUB 25-pin) on the NX-5700/5800 rear panel will not work.

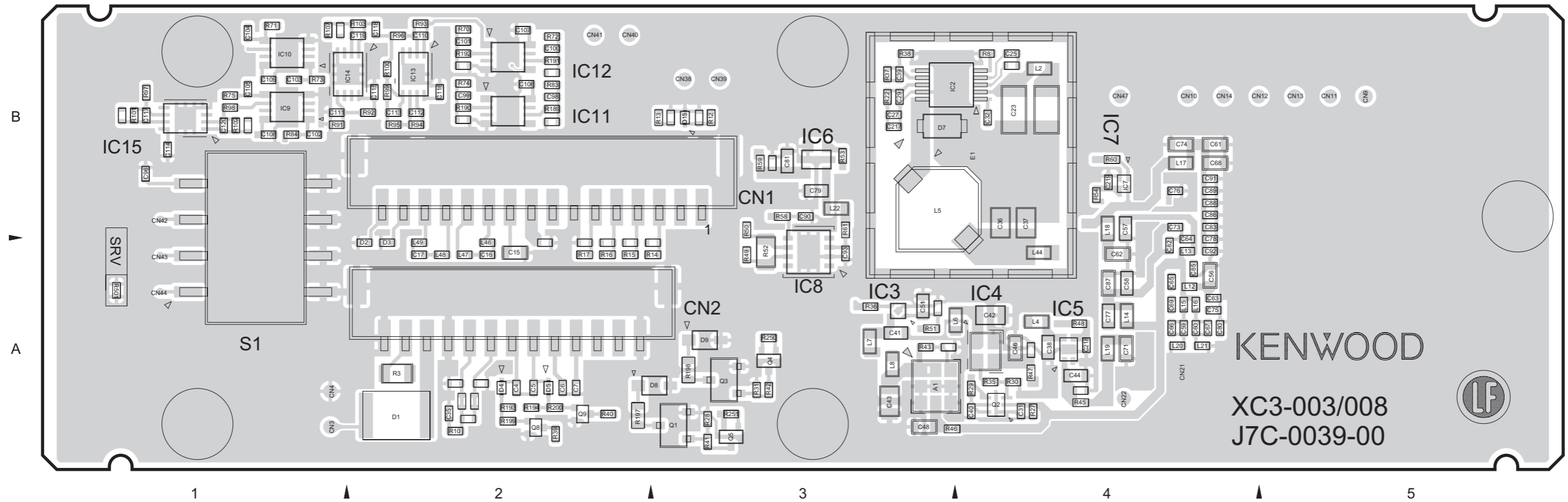
(2) Programming

- Start up the KENWOOD Firmware loader (KFL).
- Set the firmware to the KENWOOD Firmware loader (KFL).
- Turn the transceiver power ON.
- Check the connection between the transceiver and the personal computer.
- Press write button in the window.
 - When the transceiver starts to receive data, the [LOADING] display on the LCD.
 - The Firmware is written to DECK (NX-5700/5800) and KRK-14H at the same time.
- If writing ends successfully, the checksum is calculated and a result is displayed.

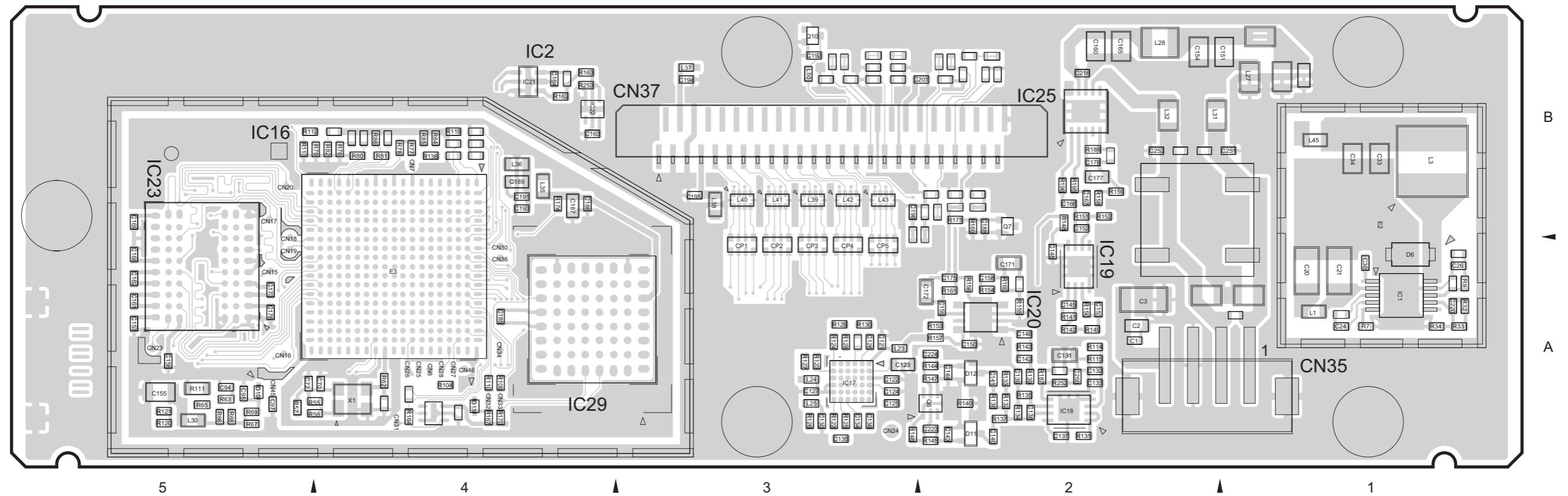
PRINTED CIRCUIT BOARD

■ INTERFACE UNIT (XC3-0080-20 (KRK-14H_M))

--- Component side view (J7C-0039-00) ---



--- Foil side view (J7C-0039-00) ---



● ADDRESS TABLE OF BOARD PARTS

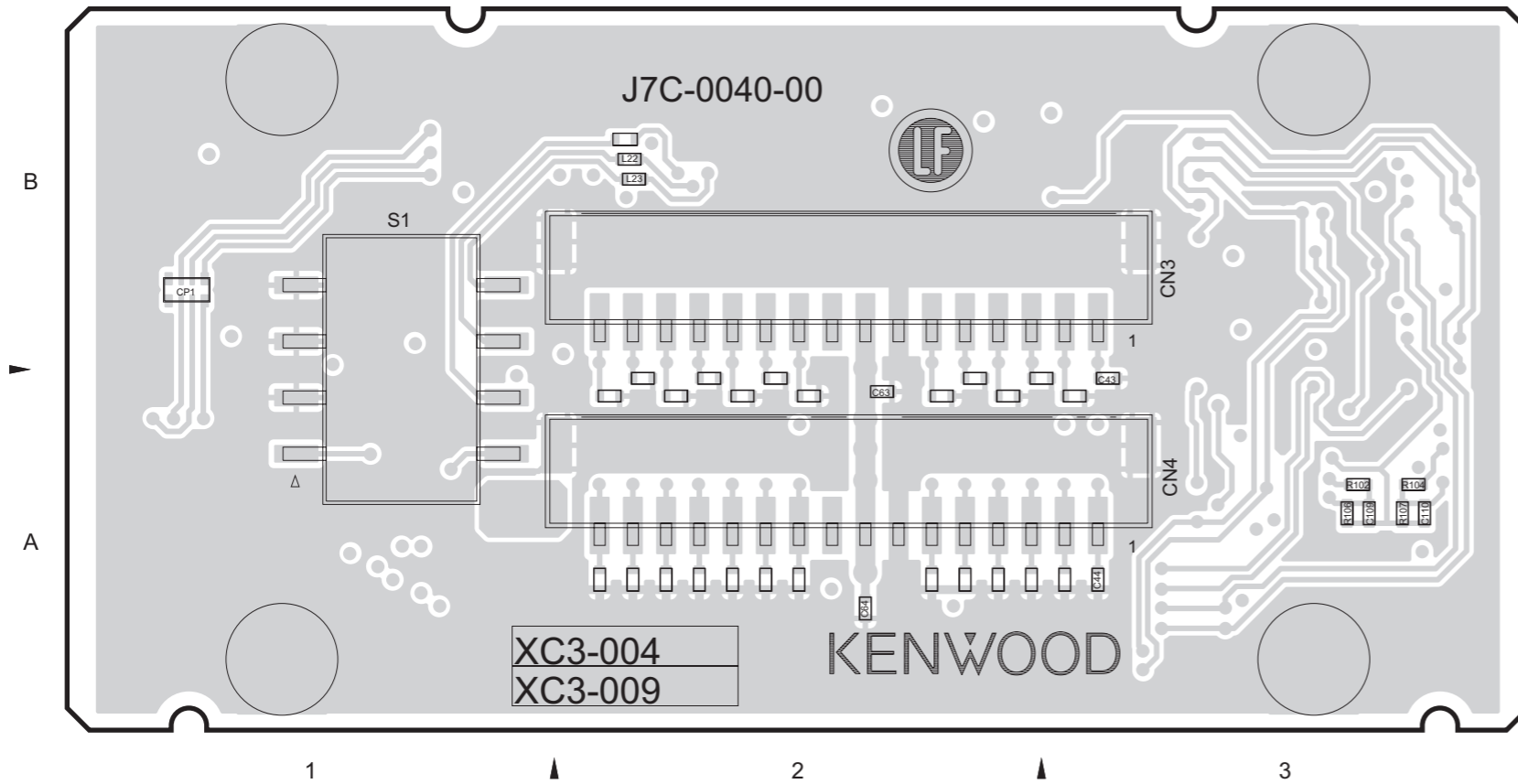
Each address may have an address error by one interval.



REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
IC		R46	A-3A	R142	B-2A	C57	A-4B	C146	B-2A	L16	A-4A
IC1	B-1A	R47	A-4A	R143	B-2A	C58	A-4A	C148	B-2A	L17	A-4B
IC2	A-3B	R48	A-4A	R144	B-2A	C59	A-4A	C150	B-2A	L18	A-4B
IC3	A-3A	R49	A-3A	R145	B-2A	C60	A-4A	C151	B-1B	L19	A-4A
IC4	A-4A	R50	A-3B	R146	B-3A	C61	A-4B	C152	B-2B	L20	A-4A
IC5	A-4A	R51	A-3A	R147	B-2A	C62	A-4A	C153	B-2A	L21	A-4A
IC6	A-3B	R52	A-3A	R148	B-2B	C63	A-4A	C154	B-2B	L22	A-3B
IC7	A-4B	R53	A-3B	R149	B-2A	C64	A-4A	C155	B-5A	L23	B-3A
IC8	A-3A	R54	A-4B	R150	B-2A	C65	A-4A	C156	B-5A	L24	B-3A
IC9	A-1B	R55	B-4A	R151	B-2B	C66	A-4A	C157	B-5A	L25	B-3A
IC10	A-1B	R56	B-4A	R152	B-2B	C67	A-4A	C158	B-2A	L27	B-1B
IC11	A-2B	R57	B-5A	R153	B-2A	C68	A-4B	C159	B-2A	L28	B-2B
IC12	A-2B	R58	A-3B	R154	B-2A	C69	A-4A	C160	B-2B	L30	B-5A
IC13	A-2B	R59	A-3B	R155	B-2A	C70	B-4A	C161	B-5A	L31	B-2B
IC14	A-2B	R60	A-4B	R156	B-2A	C71	A-4A	C162	B-5A	L32	B-2B
IC15	A-1B	R61	A-3B	R157	B-2A	C72	B-5A	C163	B-4B	L35	B-4B
IC16	B-4A	R62	B-4A	R158	B-2B	C73	A-4B	C164	B-4B	L36	B-4B
IC17	B-3A	R63	B-5A	R159	B-2B	C74	A-4B	C165	B-2B	L37	B-3B
IC18	B-2A	R64	B-4B	R160	B-2A	C75	A-4A	C166	B-2B	L38	B-3B
IC19	B-2A	R65	B-5A	R161	B-2A	C76	A-4B	C167	B-2B	L39	B-3B
IC20	B-2A	R66	B-5A	R162	B-4B	C77	A-4A	C168	B-5A	L40	B-3B
IC21	B-4B	R67	B-5A	R163	B-4B	C78	A-4A	C169	B-5B	L41	B-3B
IC22	B-4B	R68	B-5A	R164	B-4A	C79	A-3B	C171	B-2A	L42	B-3B
IC23	B-5A	R69	B-5A	R167	B-4A	C80	A-4A	C172	B-2A	L43	B-3B
IC25	B-2B	R70	A-2B	R169	B-2B	C81	A-3B	C173	B-5A	L44	A-4A
IC29	B-4A	R71	A-1B	R170	B-4A	C82	A-4A	C175	B-2A	L45	B-1B
		R72	A-2B	R171	B-2B	C83	A-4B	C176	B-5A	L46	A-2A
		R73	A-1B	R174	B-4B	C85	A-4A	C177	B-2B	L47	A-2A
TRANSISTOR		R74	A-2B	R187	B-2A	C86	A-4B	C178	B-2B	L48	A-2A
Q1	A-3A	R75	A-1B	R188	B-2B	C87	A-4A	C185	B-4A	L49	A-2A
Q2	A-4A	R76	B-4B	R189	A-2B	C88	A-4B	C186	B-4B	L50	B-3B
Q3	A-3A	R77	B-4B	R190	A-2B	C89	A-4B	C187	B-4B		
Q4	A-3A	R78	B-4B	R191	A-2B	C90	A-3B	C188	B-2B		
Q5	A-3A	R79	B-4B	R192	A-2B	C91	A-4B	C189	B-4B		
Q6	B-2A	R80	B-4B	R193	A-2A	C92	A-4A	C191	B-4B		
Q7	B-2B	R81	B-4B	R194	A-2A	C93	A-3A	C192	B-3B		
Q8	A-2A	R82	B-4B	R195	B-2B	C94	B-5A	C193	B-4B		
Q9	A-2A	R83	A-2B	R196	B-2B	C95	B-5A	C194	B-3B		
Q10	B-3B	R84	A-1B	R197	A-2A	C96	A-1B	C195	B-3B		
		R85	B-4B	R198	A-3A	C97	B-5A	C196	B-3B		
DIODE		R86	B-4B	R199	A-2A	C98	A-2B	C201	B-2B		
D1	A-2A	R91	A-1B	R200	A-2A	C99	A-2B	C216	B-2B		
D2	A-2A	R92	A-2B	R250	A-3A	C100	A-2B	C217	A-3B		
D3	A-2A	R93	A-2B	R251	A-3A	C101	A-2B	C218	A-4A		
D4	A-2A	R94	A-2B	R252	B-2A	C102	A-1B	C219	A-4B		
D5	A-2A	R95	A-2B	R253	B-4B	C103	A-1B	C220	B-1A		
D6	B-1A	R96	A-2B	R501	A-1A	C104	A-1B	C223	B-2A		
D7	A-3B	R97	A-1B			C105	A-1B	C224	B-2A		
D8	A-3A	R98	A-1B			C106	A-2B	C250	B-2A		
D9	A-3A	R99	A-2B	CAPACITOR		C107	A-2B	C251	B-1B		
D10	B-5A	R100	A-2B	C1	B-2A	C108	A-1B	C252	B-2B		
D11	B-2A	R101	A-1B	C2	B-2A	C109	A-1B				
D12	B-2A	R102	A-1B	C3	B-2A	C110	A-2B				
D13	B-4A	R103	A-2B	C4	A-2A	C111	A-1B	OTHER			
D15	A-3B	R104	B-4A	C5	A-2A	C112	A-2B	X1	B-4A		
		R107	A-1B	C6	A-2A	C113	A-2B	CN1	A-2B		
RESISTOR		R109	B-4A	C7	A-2A	C114	A-1B	CN2	A-2A		
R3	A-2A	R110	B-4A	C15	A-2A	C115	A-2B	CN35	B-2A		
R7	B-1A	R111	B-5A	C16	A-2A	C116	A-2B	CN37	B-3B		
R8	A-4B	R112	B-5B	C17	A-2A	C117	A-1B				
R9	B-1A	R113	B-5B	C20	B-1A	C118	A-2B	S1	A-1B		
R10	A-2A	R114	B-2A	C21	B-1A	C119	A-2B				
R12	A-3B	R115	B-2A	C23	A-4B	C120	A-1B	CP1	B-3A		
R13	A-3B	R119	B-4B	C24	B-1A	C121	B-3A	CP2	B-3A		
R14	A-3A	R120	B-5A	C25	A-4B	C122	B-3A	CP3	B-3A		
R15	A-2A	R121	B-5A	C26	B-1A	C123	B-3A	CP4	B-3A		
R16	A-2A	R122	B-3A	C27	A-3B	C124	B-3A	CP5	B-3A		
R17	A-2A	R123	B-3A	C29	A-3B	C125	B-3A				
R22	A-3B	R124	B-3A	C30	B-1A	C126	B-3A	A1	A-3A		
R27	A-4A	R125	B-3A	C31	A-4A	C127	B-3A				
R28	A-3A	R126	B-3A	C32	A-4B	C130	B-3A	E1	A-4B		
R29	A-4A	R127	B-3A	C33	B-1B	C131	B-2A	E2	B-1B		
R30	A-4A	R128	B-3A	C34	B-1B	C132	B-2A	E3	B-4A		
R31	A-3A	R129	B-3A	C35	A-2A	C133	B-2A				
R32	B-1A	R130	B-3A	C36	A-4B	C134	B-3A	L1	B-1A		
R33	B-1A	R131	B-2A	C37	A-4B	C135	B-3A	L2	A-4B		
R34	B-1A	R132	B-2A	C38	A-4A	C136	B-3A	L3	B-1B		
R35	A-4A	R133	B-2A	C39	A-3B	C137	B-2A	L4	A-4A		
R36	A-3A	R134	B-2A	C40	A-4A	C138	B-2A	L5	A-3B		
R37	A-3B	R135	B-2A	C41	A-3A	C139	B-2A	L6	A-4A		
R38	A-3B	R136	B-4B	C42	A-4A	C140	B-2A	L7	A-3A		
R39	A-2A	R137	B-2A	C43	A-3A	C141	B-2A	L8	A-3A		
R40	A-2A	R138	B-2A	C44	A-4A	C142	B-2A	L12	A-4A		
R41	A-3A	R139	B-2A	C46	A-4A	C143	B-2A	L13	A-4A		
R42	A-3A	R140	B-2A	C48	A-3A	C144	B-2A	L14	A-4A		
R43	A-3A	R141	B-2A	C51	A-3A	C145	B-2A	L15	A-4A		
R45	A-4A			C56	A-4A						

■ INTERFACE UNIT (XC3-0090-20 (KRK-15B_M))

--- Component side view (J7C-0040-00) ---



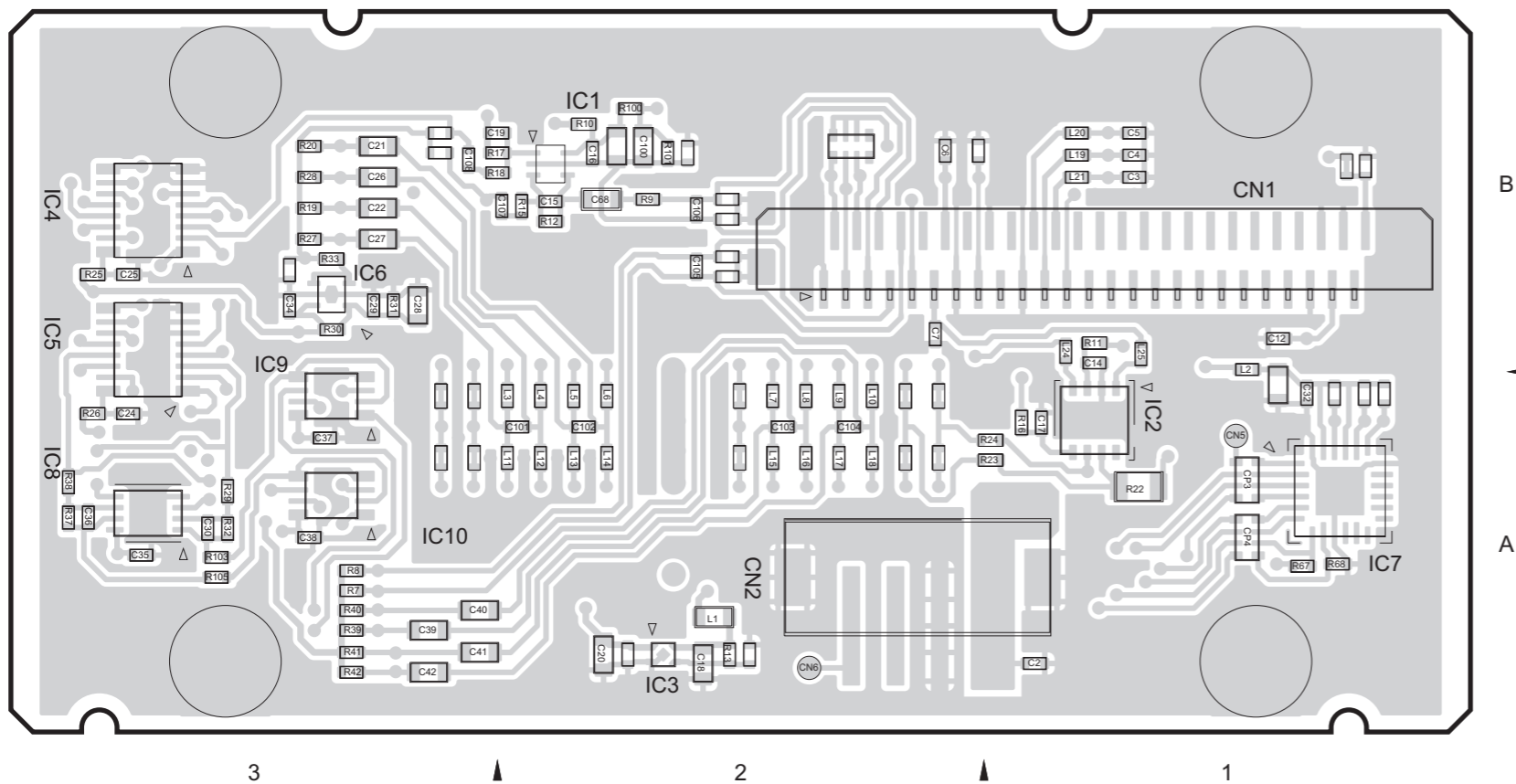
● ADDRESS TABLE OF BOARD PARTS

Each address may have an address error by one interval.



REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
IC		R29	B-3A	C17	B-1A	C105	B-2B	L15	B-2A
IC1	B-2B	R30	B-3B	C18	B-2A	C106	B-2B	L16	B-2A
IC2	B-1A	R31	B-3B	C19	B-3B	C107	B-2B	L17	B-2A
IC3	B-2A	R32	B-3A	C20	B-2A	C108	B-3B	L18	B-2A
IC4	B-3B	R33	B-3B	C21	B-3B	C109	A-3A	L19	B-1B
IC5	B-3B	R37	B-3A	C22	B-3B	C110	A-3A	L20	B-1B
IC6	B-3B	R38	B-3A	C24	B-3A			L21	B-1B
IC7	B-1A	R39	B-3A	C25	B-3B			L22	A-2B
IC8	B-3A	R40	B-3A	C26	B-3B	OTHER		L23	A-2B
IC9	B-3A	R41	B-3A	C27	B-3B	CN1	B-1B	L24	B-1B
IC10	B-3A	R42	B-3A	C28	B-3B	CN2	B-2A	L25	B-1B
		R67	B-1A	C29	B-3B	CN3	A-2B		
		R68	B-1A	C30	B-3A	CN4	A-2A		
RESISTOR		R100	B-2B	C32	B-1A	S1	A-1B		
R7	B-3A	R101	B-2B	C34	B-3B				
R8	B-3A	R102	A-3A	C35	B-3A	CP1	A-1B		
R9	B-2B	R103	B-3A	C36	B-3A	CP3	B-1A		
R10	B-2B	R104	A-3A	C37	B-3A	CP4	B-1A		
R11	B-1B	R105	B-3A	C38	B-3A				
R12	B-2B	R106	A-3A	C39	B-3A	L1	B-2A		
R13	B-2A	R107	A-3A	C40	B-3A	L2	B-1B		
R15	B-2B			C41	B-3A	L3	B-2A		
R16	B-1A			C42	B-3A	L4	B-2A		
R17	B-3B	CAPACITOR		C43	A-3A	L5	B-2A		
R18	B-3B	C2	B-1A	C44	A-3A	L6	B-2A		
R19	B-3B	C3	B-1B	C63	A-2A	L7	B-2A		
R20	B-3B	C4	B-1B	C64	A-2A	L8	B-2A		
R22	B-1A	C5	B-1B	C68	B-2B	L9	B-2A		
R23	B-1A	C6	B-2B	C100	B-2B	L10	B-2A		
R24	B-1A	C7	B-2B	C101	B-2A	L11	B-2A		
R25	B-3B	C12	B-1B	C102	B-2A	L12	B-2A		
R26	B-3A	C14	B-1B	C103	B-2A	L13	B-2A		
R27	B-3B	C15	B-2B	C104	B-2A	L14	B-2A		
R28	B-3B	C16	B-2B						

--- Foil side view (J7C-0040-00) ---



SCHEMATIC DIAGRAM

INTERFACE UNIT (XC3-0080-20 (KRK-14H_M))

INTERFACE UNIT (XC3-008)

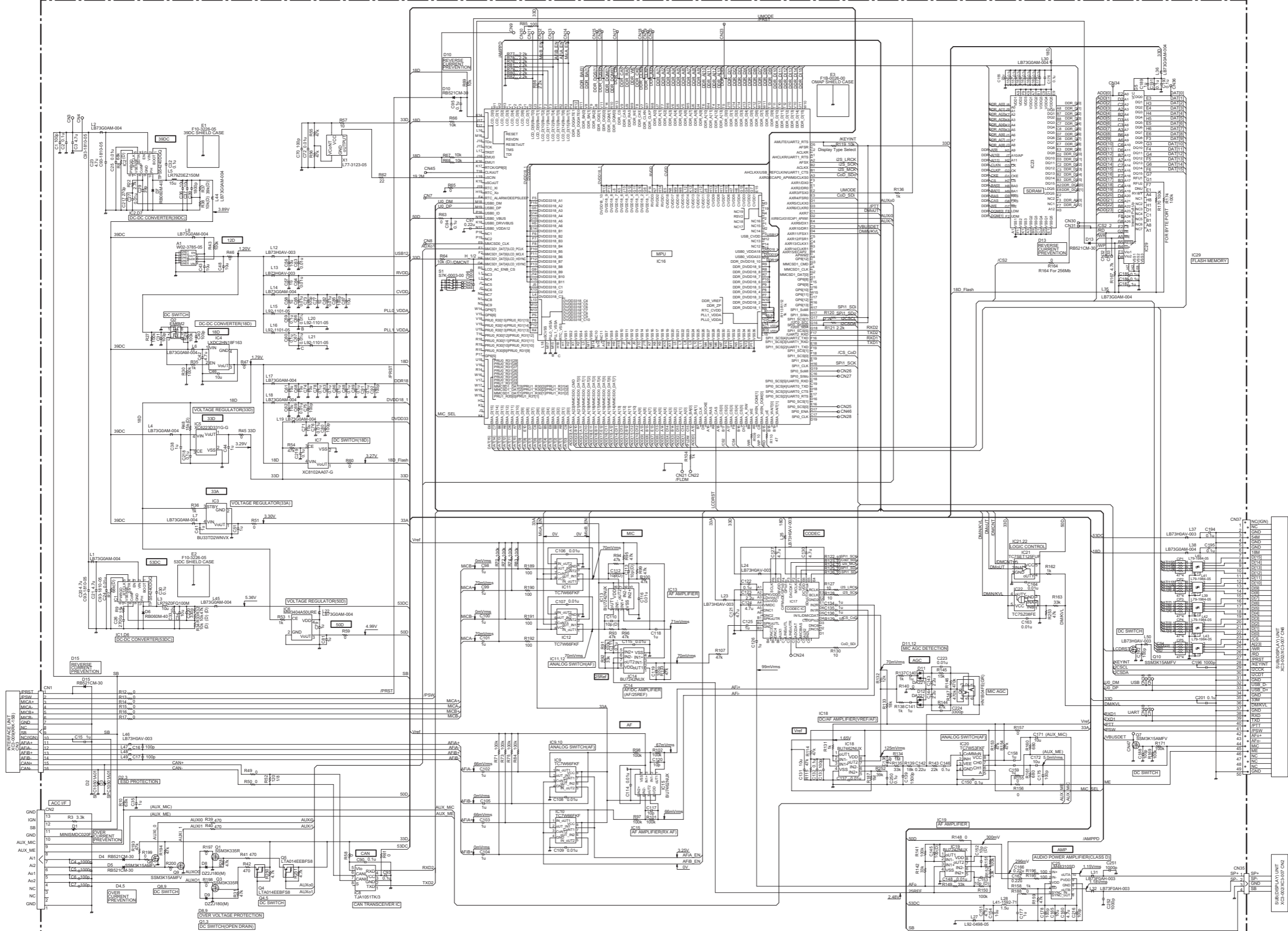
5

4

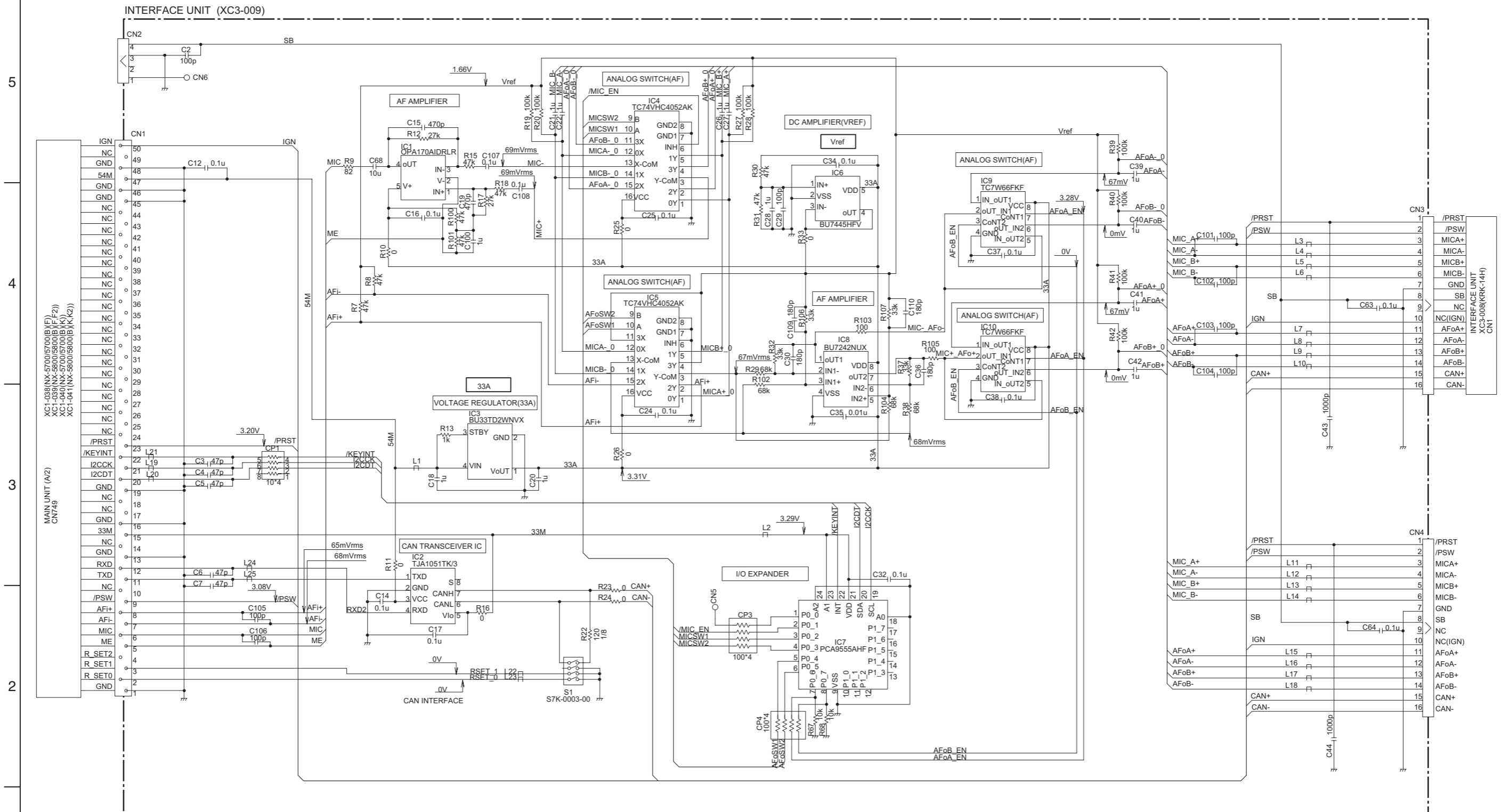
3

2

1

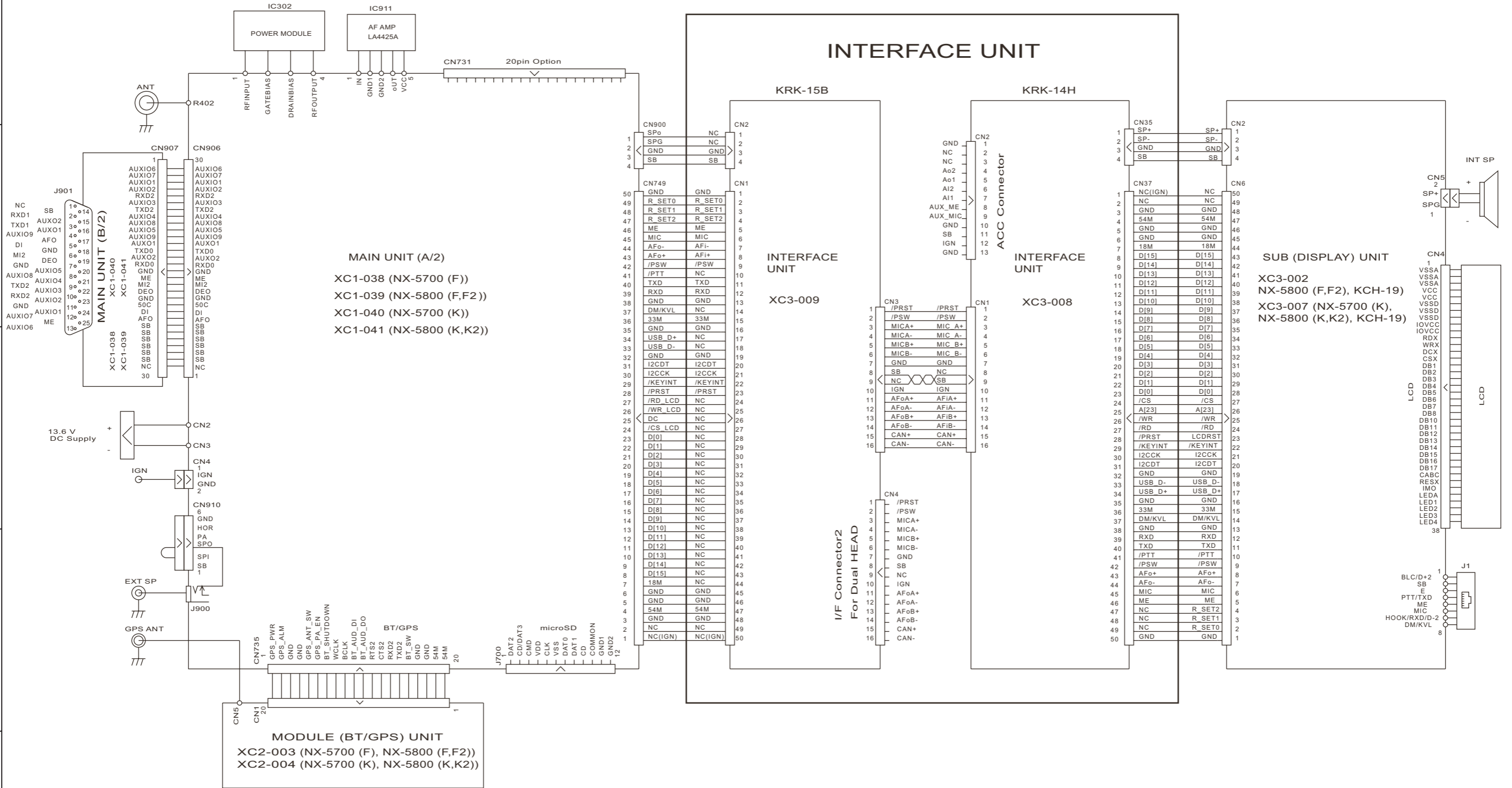


INTERFACE UNIT (XC3-0090-20 (KRK-15B_M))



INTERCONNECTION DIAGRAM

5
4
3
2
1



MEMO

PARTS LIST

[KRK-14H,KRK-15B]

* SAFETY PRECAUTION

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

* BEWARE OF BOGUS PARTS

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

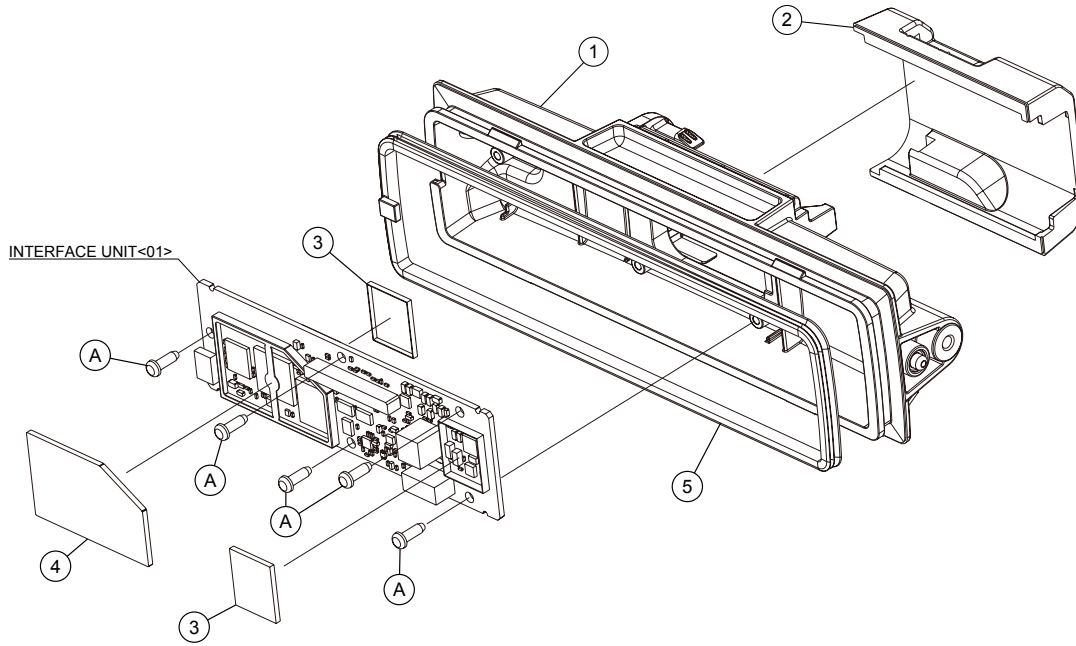
* (x_) in a description column shows the number of the used part.

- Contents -

Exploded view of general assembly and parts list	3-2
Electrical parts list	3-4
Packing materials and accessories parts list	3-8

Exploded view of general assembly and parts list (KRK-14H)

Block No.M1MM



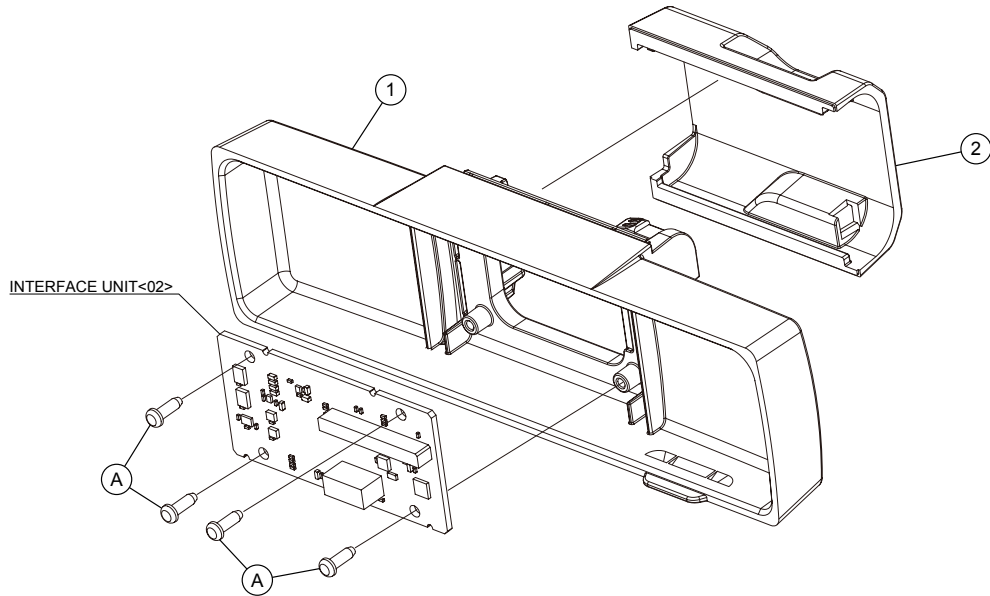
General assembly

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

△ Symbol No.	Part No.	Part Name	Description	Local
1	A2D-0001-00	REAR PANEL		
2	F0G-0002-00	MOLDING COVER		
3	F10-3225-05	SHIELDING COVER(DC/DC)	(x2)	
4	F1B-0027-00	SHIELDING COVER(OMAP)		
5	G5D-0017-00	PACKING(FRONT)		
A	N80-2608-48	P.HEAD T.SCREW	(x5)	
-	XC3-0080-21	SERVICE INTERFACE UNIT		

Exploded view of general assembly and parts list (KRK-15B)

Block No.M2MM



General assembly

Block No. [M][2][M][M]

△ Symbol No.	Part No.	Part Name	Description	Local
1	A6C-0001-00	MAIN PANEL		
2	F0G-0002-00	MOLDING COVER		
A	N80-2608-48	P.HEAD T.SCREW	(x4)	

Electrical parts list

INTERFACE UNIT

XC3-0080-20(KRK-14H_M)

***Note : This part cannot be replaced. Therefore, this part is not supplied as a service part.**

Block No. [0][1]

Symbol No.	Part No.	Part Name	Description	Local
IC1	TPS54240DGQ	IC(MOS-IC)		
IC2	TPS54240DGQ	IC(MOS-IC)		
IC3	BU33TD2WNVX	IC(MOS-IC)		
IC4	LXDC2HN18F163	IC(MOS-IC)		
IC5	XC6223D331G-G	IC(MOS-IC)		
IC6	MM3404A50URE	IC(MOS-IC)		
IC7	XC8102AA07-G	IC(MOS-IC)		
IC8	TJA1051TK/3	IC(MOS-IC)		
IC9	TC7W66FKF	IC(MOS-IC)		
IC10	TC7W66FKF	IC(MOS-IC)		
IC11	TC7W66FKF	IC(MOS-IC)		
IC12	TC7W66FKF	IC(MOS-IC)		
IC13	BU7242NUX	IC(MOS-IC)		
IC14	BU7242NUX	IC(MOS-IC)		
IC15	BU7462NUX	IC(MOS-IC)		
IC16	-----	MPU IC	*Note	
IC17	-----	MPU IC	*Note	
IC18	BU7462NUX	IC(MOS-IC)		
IC19	BU7242NUX	IC(MOS-IC)		
IC20	TC7W53FKF	IC(MOS-IC)		
IC21	TC7SET125FUF	IC(MOS-IC)		
IC22	TC7SZ08FE	IC(MOS-IC)		
IC23	-----	SRAM IC	*Note	
IC25	LM48310SD	ANALOG IC		
IC29	-----	ROM IC	*Note	
Q1	SSM3K335R	TRANSISTOR		
Q2	EM6M2	FET		
Q3	SSM3K335R	TRANSISTOR		
Q4	LTA014EEBFS8	DIGI TRANSISTOR		
Q5	LTA014EEBFS8	DIGI TRANSISTOR		
Q6	HN1B04FE(GR)	TRANSISTOR		
Q7	SSM3K15AMFV	FET		
Q8	SSM3K15AMFV	FET		
Q9	SSM3K15AMFV	FET		
Q10	SSM3K15AMFV	FET		
D1	MINISMDC020F	VARISTOR		
D2	SPC10501A01	VARISTOR		
D3	SPC10501A01	VARISTOR		
D4	RB521CM-30	DIODE		
D5	RB521CM-30	DIODE		
D6	RB060M-40	DIODE		
D7	RB060M-40	DIODE		
D8	DZ2J180(M)	ZENER DIODE		
D9	DZ2J180(M)	ZENER DIODE		
D10	RB521CM-30	DIODE		
D11	DA221	DIODE		
D12	DA221	DIODE		
D13	RB521CM-30	DIODE		
D15	RB521CM-30	DIODE		
C1	CC73HCH1H101J	C CAPACITOR	100PF J	
C2	CK73GBB1H104K	C CAPACITOR	0.10UF K	
C3	C93-1810-05	C CAPACITOR	4.7UF K	
C4	CK73HBB1H102K	C CAPACITOR	1000PF K	
C5	CK73HBB1H102K	C CAPACITOR	1000PF K	
C6	CC73HCH1H101J	C CAPACITOR	100PF J	
C7	CC73HCH1H101J	C CAPACITOR	100PF J	
C15	CK73GB1H105K	C CAPACITOR	1.0UF K	
C16	CC73HCH1H101J	C CAPACITOR	100PF J	
C17	CC73HCH1H101J	C CAPACITOR	100PF J	
C20	C93-1810-05	C CAPACITOR	4.7UF K	
C21	C93-1810-05	C CAPACITOR	4.7UF K	
C23	C93-1810-05	C CAPACITOR	4.7UF K	
C24	CK73HB1H103K	C CAPACITOR	0.010UF K	
C25	CK73HB1H103K	C CAPACITOR	0.010UF K	

Symbol No.	Part No.	Part Name	Description	Local
C26	CK73HB1H272K	C CAPACITOR	270UF K	
C27	CK73HB1H103K	C CAPACITOR	0.010UF K	
C29	CC73HCH1H390G	C CAPACITOR	39PF G	
C30	CK73HB1E104K	C CAPACITOR	0.10UF K	
C31	CC73HCH1H101J	C CAPACITOR	100PF J	
C32	CK73HB1E104K	C CAPACITOR	0.10UF K	
C33	CK73FB1C106K	C CAPACITOR	10UF K	
C34	CK73FB1C106K	C CAPACITOR	10UF K	
C35	CK73HB1C105K	C CAPACITOR	1.0UF K	
C36	CK73FB1C106K	C CAPACITOR	10UF K	
C37	CK73FB1C106K	C CAPACITOR	10UF K	
C38	CK73GB1E105K	C CAPACITOR	1.0UF K	
C39	CK73HB1H182K	C CAPACITOR	180UF K	
C40	CC73HCH1H101J	C CAPACITOR	100PF J	
C41	CK73GB1E105K	C CAPACITOR	1.0UF K	
C42	CK73FXR1E475K	C CAPACITOR	4.7UF K	
C43	CK73FB1C106K	C CAPACITOR	10UF K	
C44	CK73GB1E105K	C CAPACITOR	1.0UF K	
C46	CK73GB0J106K	C CAPACITOR	10UF K	
C48	CK73GB0J106K	C CAPACITOR	10UF K	
C51	CK73GB1E105K	C CAPACITOR	1.0UF K	
C56	CK73GB0J106K	C CAPACITOR	10UF K	
C57	CK73GB1E105K	C CAPACITOR	1.0UF K	
C58	CK73GB1E105K	C CAPACITOR	1.0UF K	
C59	CK73HB1E104K	C CAPACITOR	0.10UF K	
C60	CK73HB1E104K	C CAPACITOR	0.10UF K	
C61	CK73GB0J106K	C CAPACITOR	10UF K	
C62	CK73GB0J106K	C CAPACITOR	10UF K	
C63	CK73HB1H103K	C CAPACITOR	0.010UF K	
C64	CK73HB1H103K	C CAPACITOR	0.010UF K	
C65	CK73HB1H103K	C CAPACITOR	0.010UF K	
C66	CK73HB1H103K	C CAPACITOR	0.010UF K	
C67	CK73HB1H103K	C CAPACITOR	0.010UF K	
C68	CK73GB0J106K	C CAPACITOR	10UF K	
C69	CK73HB1H103K	C CAPACITOR	0.010UF K	
C70	CC73HCH1H101J	C CAPACITOR	100PF J	
C71	CK73GB0J106K	C CAPACITOR	10UF K	
C72	CK73HB1H103K	C CAPACITOR	0.010UF K	
C73	CC73HCH1H101J	C CAPACITOR	100PF J	
C74	CK73GB0J106K	C CAPACITOR	10UF K	
C75	CC73HCH1H101J	C CAPACITOR	100PF J	
C76	CK73HB1H103K	C CAPACITOR	0.010UF K	
C77	CK73GB1E105K	C CAPACITOR	1.0UF K	
C78	CK73HB1E104K	C CAPACITOR	0.10UF K	
C79	CK73GB1E105K	C CAPACITOR	1.0UF K	
C80	CC73HCH1H101J	C CAPACITOR	100PF J	
C81	CK73GB1E105K	C CAPACITOR	1.0UF K	
C82	CK73HB1H103K	C CAPACITOR	0.010UF K	
C83	CK73HB1E104K	C CAPACITOR	0.10UF K	
C85	CC73HCH1H101J	C CAPACITOR	100PF J	
C86	CK73HB1E104K	C CAPACITOR	0.10UF K	
C87	CK73GB0J106K	C CAPACITOR	10UF K	
C88	CK73HB1E104K	C CAPACITOR	0.10UF K	
C89	CK73HB1E104K	C CAPACITOR	0.10UF K	
C90	CK73HB1E104K	C CAPACITOR	0.10UF K	
C91	CK73HB1E104K	C CAPACITOR	0.10UF K	
C92	CC73HCH1H101J	C CAPACITOR	100PF J	
C93	CK73HB1E104K	C CAPACITOR	0.10UF K	
C94	CK73HB1E104K	C CAPACITOR	0.10UF K	
C95	CK73HB1E104K	C CAPACITOR	0.10UF K	
C96	CK73HBB1H102K	C CAPACITOR	0.0H10UF K	
C97	CK73HB1A224K	C CAPACITOR	0.22UF K	
C98	CK73HB1C105K	C CAPACITOR	1.0UF K	
C99	CK73HB1C105K	C CAPACITOR	1.0UF K	
C100	CK73HB1C105K	C CAPACITOR	1.0UF K	
C101	CK73HB1C105K	C CAPACITOR	1.0UF K	
C102	CK73HB1C105K	C CAPACITOR	1.0UF K	
C103	CK73HB1C105K	C CAPACITOR	1.0UF K	
C104	CK73HB1C105K	C CAPACITOR	1.0UF K	
C105	CK73HB1C105K	C CAPACITOR	1.0UF K	
C106	CK73HB1H103K	C CAPACITOR	0.010UF K	
C107	CK73HB1H103K	C CAPACITOR	0.010UF K	
C108	CK73HB1H103K	C CAPACITOR	0.010UF K	
C109	CK73HB1H103K	C CAPACITOR	0.010UF K	
C110	CC73HCH1H100D	C CAPACITOR	10PF D	
C111	CK73HB1E104K	C CAPACITOR	0.10UF K	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C112	CC73HCH1H100D	C CAPACITOR	10PF D		C250	CK73HB1E104K	C CAPACITOR	0.10UF K	
C113	CC73HCH1H100D	C CAPACITOR	10PF D		C251	CK73HBB1H102K	C CAPACITOR	1000PF K	
C114	CK73HB1H103K	C CAPACITOR	0.010UF K		C252	CK73HBB1H102K	C CAPACITOR	1000PF K	
C115	CK73HB1H103K	C CAPACITOR	0.010UF K						
C116	CK73HB1H103K	C CAPACITOR	0.010UF K		R3	RK73FB2B332J	MG RESISTOR	3.3K J 1/8W	
C117	CC73HCH1H100D	C CAPACITOR	10PF D		R7	RK73HH1J683D	MG RESISTOR	68K D 1/16W	
C118	CK73HB1C105K	C CAPACITOR	1.0UF K		R8	RK73HH1J683D	MG RESISTOR	68K D 1/16W	
C119	CC73HCH1H101J	C CAPACITOR	100PF J		R9	RK73HH1J153D	MG RESISTOR	15K D 1/16W	
C120	CC73HCH1H100D	C CAPACITOR	10PF D		R10	RK73HB1J682J	MG RESISTOR	6.8K J 1/16W	
C121	CK73HB0J475M	C CAPACITOR	4.7UF M		R12	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C122	CK73HB1E104K	C CAPACITOR	0.10UF K		R13	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C123	CK73GXR1C225K	C CAPACITOR	2.2UF K		R14	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C124	CK73HB0J475M	C CAPACITOR	4.7UF M		R15	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C125	CK73HB1C105K	C CAPACITOR	1.0UF K		R16	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C126	CK73HB1C105K	C CAPACITOR	1.0UF K		R17	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C127	CK73HB0J475M	C CAPACITOR	4.7UF M		R22	RK73HB1J272J	MG RESISTOR	2.7K J 1/16W	
C130	CK73HB0J475M	C CAPACITOR	4.7UF M		R27	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C131	CK73GB0J106K	C CAPACITOR	10UF K		R28	RK73HH1J473D	MG RESISTOR	47K D 1/16W	
C132	CK73HB1E104K	C CAPACITOR	0.10UF K		R29	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C133	CC73HCH1H101J	C CAPACITOR	100PF J		R30	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C134	CK73HB1C105K	C CAPACITOR	1.0UF K		R31	RK73HH1J473D	MG RESISTOR	47K D 1/16W	
C135	CK73HB1C105K	C CAPACITOR	1.0UF K		R32	RK73HH1J473D	MG RESISTOR	47K D 1/16W	
C136	CK73HB1C105K	C CAPACITOR	1.0UF K		R33	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
C137	CK73HB1H103K	C CAPACITOR	0.010UF K		R34	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
C138	CC73HCH1H220G	C CAPACITOR	22PF G		R35	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
C139	CK73HBB1H152K	C CAPACITOR	0.015UF K		R36	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
C140	CK73HB1C105K	C CAPACITOR	1.0UF K		R37	RK73HH1J393D	MG RESISTOR	39K D 1/16W	
C141	CK73HB1C105K	C CAPACITOR	1.0UF K		R38	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
C142	CK73HB1A224K	C CAPACITOR	0.22UF K		R39	RK73HB1J471J	MG RESISTOR	470 J 1/16W	
C143	CK73HB0J225K	C CAPACITOR	2.2UF K		R40	RK73HB1J471J	MG RESISTOR	470 J 1/16W	
C144	CK73HB0J225K	C CAPACITOR	2.2UF K		R41	RK73HB1J471J	MG RESISTOR	470 J 1/16W	
C145	CC73HCH1H100D	C CAPACITOR	10PF D		R42	RK73HB1J471J	MG RESISTOR	470 J 1/16W	
C146	CK73HB1E104K	C CAPACITOR	0.10UF K		R43	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C148	CK73HB1H103K	C CAPACITOR	0.010UF K		R45	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C150	CK73HB1E104K	C CAPACITOR	0.10UF K		R46	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C151	CK73FXR1E475K	C CAPACITOR	4.7UF K		R47	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C152	CC73HCH1H100D	C CAPACITOR	10PF D		R48	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
C153	CC73HCH1H100D	C CAPACITOR	10PF D		R49	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C154	CK73FB1C106K	C CAPACITOR	10UF K		R50	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C155	CK73FXR0J226M	C CAPACITOR	22UF M		R51	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C156	CK73HB1E104K	C CAPACITOR	0.10UF K		R52	RK73FB2B151J	MG RESISTOR	150 J 1/8W	
C157	CK73HB1E104K	C CAPACITOR	0.10UF K		R53	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
C158	CK73HB1C105K	C CAPACITOR	1.0UF K		R54	RK73HH1J473D	MG RESISTOR	47K D 1/16W	
C159	CK73HB1C105K	C CAPACITOR	1.0UF K		R55	RK73HH1J473D	MG RESISTOR	47K D 1/16W	
C160	CK73FXR1E475K	C CAPACITOR	4.7UF K		R56	RK73HH1J473D	MG RESISTOR	47K D 1/16W	
C161	CK73HB1E104K	C CAPACITOR	0.10UF K		R57	RK73HB1J100J	MG RESISTOR	10 J 1/16W	
C162	CK73HB1E104K	C CAPACITOR	0.10UF K		R58	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C163	CK73HB1H103K	C CAPACITOR	0.010UF K		R59	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C164	CK73HB1H103K	C CAPACITOR	0.010UF K		R60	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C165	CK73FB1C106K	C CAPACITOR	10UF K		R61	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C166	CK73HB1A224K	C CAPACITOR	0.22UF K		R62	RK73HB1J220J	MG RESISTOR	22 J 1/16W	
C167	CK73HB1A224K	C CAPACITOR	0.22UF K		R63	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C168	CK73HB1E104K	C CAPACITOR	0.10UF K		R64	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
C169	CK73HB1E104K	C CAPACITOR	0.10UF K		R65	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
C171	CK73GB0J106K	C CAPACITOR	10UF K		R66	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
C172	CK73GB0J106K	C CAPACITOR	10UF K		R67	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
C173	CK73HB1E104K	C CAPACITOR	0.10UF K		R68	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
C175	CC73HCH1H101J	C CAPACITOR	100PF J		R69	RK73HH1J103D	MG RESISTOR	10K D 1/16W	
C176	CK73HB1E104K	C CAPACITOR	0.10UF K		R70	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C177	CK73GB1E105K	C CAPACITOR	1.0UF K		R71	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C178	CC73HCH1H101J	C CAPACITOR	100PF J		R72	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C185	CK73HB1E104K	C CAPACITOR	0.10UF K		R73	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C186	CK73HB1E104K	C CAPACITOR	0.10UF K		R74	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C187	CK73GB1E105K	C CAPACITOR	1.0UF K		R75	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C188	CC73HCH1H101J	C CAPACITOR	100PF J		R76	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
C189	CK73GB1E105K	C CAPACITOR	1.0UF K		R77	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
C191	CK73HB1E104K	C CAPACITOR	0.10UF K		R78	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
C193	CK73HB1E104K	C CAPACITOR	0.10UF K		R79	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
C194	CK73HB1E104K	C CAPACITOR	0.10UF K		R80	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
C195	CK73HB1E104K	C CAPACITOR	0.10UF K		R81	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
C195	CK73HB1E104K	C CAPACITOR	0.10UF K		R82	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
C196	CK73HBB1H102K	C CAPACITOR	1000PF K		R83	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C216	CC73HCH1H101J	C CAPACITOR	100PF J		R84	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C217	CC73HCH1H271J	C CAPACITOR	270PF J		R85	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
C219	CK73HB1E104K	C CAPACITOR	0.10UF K		R86	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W	
C220	CC73HCH1H331J	C CAPACITOR	330PF J		R91	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
C223	CK73HB1H103K	C CAPACITOR	0.010UF K		R92	RK73HB1J333J	MG RESISTOR	33K J 1/16W	
C224	CK73HBB1H332K	C CAPACITOR	0.0033UF K		R93	RK73HH1J473D	MG RESISTOR	47K D 1/16W	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R94	RK73HH1J473D	MG RESISTOR	47K D 1/16W		R194	RK73HH1J473D	MG RESISTOR	47K D 1/16W	
R95	RK73HH1J473D	MG RESISTOR	47K D 1/16W		R195	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R96	RK73HH1J473D	MG RESISTOR	47K D 1/16W		R196	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R97	RK73HB1J104J	MG RESISTOR	100K J 1/16W		R197	RK73GB2A000J	MG RESISTOR	0.0 J 1/10W	
R98	RK73HB1J104J	MG RESISTOR	100K J 1/16W		R198	RK73GB2A000J	MG RESISTOR	0.0 J 1/10W	
R99	RK73HH1J473D	MG RESISTOR	47K D 1/16W		R199	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R100	RK73HH1J473D	MG RESISTOR	47K D 1/16W		R200	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R101	RK73HB1J104J	MG RESISTOR	100K J 1/16W		R250	RK73HB1J472J	MG RESISTOR	4.7K J 1/16W	
R102	RK73HB1J104J	MG RESISTOR	100K J 1/16W		R251	RK73HB1J472J	MG RESISTOR	4.7K J 1/16W	
R103	RK73HH1J473D	MG RESISTOR	47K D 1/16W		R252	RK73HB1J393J	MG RESISTOR	39K J 1/16W	
R104	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W		R253	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R107	RK73HH1J473D	MG RESISTOR	47K D 1/16W						
R109	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L1	LB73G0AM-004	CHIP FERRITE BEADS		
R110	RK73HB1J470J	MG RESISTOR	47 J 1/16W		L2	LB73G0AM-004	CHIP FERRITE BEADS		
R111	RK73GH2A49R9D	MG RESISTOR	49.9 D 1/10W		L3	LR79Z0FQ100M	SMALL FIXED INDUCTOR(10UH)		
R112	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W		L4	LB73G0AM-004	CHIP FERRITE BEADS		
R113	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W		L5	LR79Z0EZ150M	SMALL FIXED INDUCTOR(15UH)		
R114	RK73HH1J473D	MG RESISTOR	47K D 1/16W		L6	LB73G0AM-004	CHIP FERRITE BEADS		
R115	RK73HH1J473D	MG RESISTOR	47K D 1/16W		L7	LB73G0AM-004	CHIP FERRITE BEADS		
R119	RK73HH1J103D	MG RESISTOR	10K D 1/16W		L8	LB73G0AM-004	CHIP FERRITE BEADS		
R120	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W		L12	LB73H0AV-003	CHIP FERRITE BEADS		
R121	RK73HB1J222J	MG RESISTOR	2.2K J 1/16W		L13	LB73H0AV-003	CHIP FERRITE BEADS		
R122	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L14	LB73G0AM-004	CHIP FERRITE BEADS		
R123	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L15	L92-1101-05	CHIP FERRITE		
R124	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L16	L92-1101-05	CHIP FERRITE		
R125	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L17	LB73G0AM-004	CHIP FERRITE BEADS		
R126	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L18	LB73G0AM-004	CHIP FERRITE BEADS		
R127	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L19	LB73G0AM-004	CHIP FERRITE BEADS		
R128	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L20	L92-1101-05	CHIP FERRITE		
R129	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L21	L92-1101-05	CHIP FERRITE		
R130	RK73HB1J100J	MG RESISTOR	10 J 1/16W		L22	LB73G0AM-004	CHIP FERRITE BEADS		
R131	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W		L23	LB73H0AV-003	CHIP FERRITE BEADS		
R132	RK73HB1J123J	MG RESISTOR	12K J 1/16W		L24	LB73H0AV-003	CHIP FERRITE BEADS		
R133	RK73HB1J183J	MG RESISTOR	18K J 1/16W		L25	LB73H0AV-003	CHIP FERRITE BEADS		
R134	RK73HB1J105J	MG RESISTOR	1.0M J 1/16W		L27	L92-0498-05	CHIP FERRITE		
R135	RK73HB1J333J	MG RESISTOR	33K J 1/16W		L28	L41-1592-71	SMALL FIXED INDUCTOR(1.5UH)		
R136	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W		L30	LB73G0AM-004	CHIP FERRITE BEADS		
R137	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W		L31	LB73FOAH-003	CHIP FERRITE		
R138	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W		L32	LB73FOAH-003	CHIP FERRITE		
R139	RK73HB1J183J	MG RESISTOR	18K J 1/16W		L35	LB73G0AM-004	CHIP FERRITE BEADS		
R140	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W		L36	LB73G0AM-004	CHIP FERRITE BEADS		
R141	RK73HB1J104J	MG RESISTOR	100K J 1/16W		L37	LB73H0AV-003	CHIP FERRITE BEADS		
R142	RK73HB1J333J	MG RESISTOR	33K J 1/16W		L38	LB73G0AM-004	CHIP FERRITE BEADS		
R143	RK73HB1J223J	MG RESISTOR	22K J 1/16W		L39	L79-1984-05	FILTER		
R144	RK73HH1J473D	MG RESISTOR	47K D 1/16W		L40	L79-1984-05	FILTER		
R145	RK73HB1J153J	MG RESISTOR	15K J 1/16W		L41	L79-1984-05	FILTER		
R146	RK73HB1J474J	MG RESISTOR	470K J 1/16W		L42	L79-1984-05	FILTER		
R147	RK73HB1J474J	MG RESISTOR	470K J 1/16W		L43	L79-1984-05	FILTER		
R148	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W		L44	LB73G0AM-004	CHIP FERRITE BEADS		
R149	RK73HB1J333J	MG RESISTOR	33K J 1/16W		L45	LB73G0AM-004	CHIP FERRITE BEADS		
R150	RK73HB1J104J	MG RESISTOR	100K J 1/16W		L46	LB73H0AV-003	CHIP FERRITE BEADS		
R151	RK73HB1J104J	MG RESISTOR	100K J 1/16W		L47	LB73H0AV-003	CHIP FERRITE BEADS		
R152	RK73HB1J333J	MG RESISTOR	33K J 1/16W		L48	LB73H0AV-003	CHIP FERRITE BEADS		
R153	RK73HH1J473D	MG RESISTOR	47K D 1/16W		L49	LB73H0AV-003	CHIP FERRITE BEADS		
R154	RK73HH1J473D	MG RESISTOR	47K D 1/16W		L50	LB73H0AV-003	CHIP FERRITE BEADS		
R155	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W						
R156	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W		A1	W02-3785-05	DC/DC CONVERTER		
R157	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W		CN1	EA710AC-1516B	WIRE TO BOARD CONNECTOR SMD		
R158	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W		CN2	EA710AC-1513B	WIRE TO BOARD CONNECTOR SMD		
R159	RK73HH1J473D	MG RESISTOR	47K D 1/16W		CN35	E41-2673-05	PIN ASSY		
R160	RK73HB1J681J	MG RESISTOR	680 J 1/16W		CN37	E40-6913-05	FLAT CABLE CONNECTOR		
R161	RK73HB1J681J	MG RESISTOR	680 J 1/16W		CP1	RK74HB1J470J	NET RESISTOR	47 J 1/16W	
R162	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W		CP2	RK74HB1J470J	NET RESISTOR	47 J 1/16W	
R163	RK73HB1J333J	MG RESISTOR	33K J 1/16W		CP3	RK74HB1J470J	NET RESISTOR	47 J 1/16W	
R164	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W		CP4	RK74HB1J470J	NET RESISTOR	47 J 1/16W	
R167	RK73HB1J472J	MG RESISTOR	4.7K J 1/16W		CP5	RK74HB1J470J	NET RESISTOR	47 J 1/16W	
R168	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W		E1	F10-3226-05	SHIELDING CASE		
R169	RK73HB1J104J	MG RESISTOR	100K J 1/16W		E2	F10-3226-05	SHIELDING CASE		
R170	RK73HB1J104J	MG RESISTOR	100K J 1/16W		E3	F1B-0026-00	SHIELDING CASE		
R171	RK73HB1J104J	MG RESISTOR	100K J 1/16W		S1	S7K-0003-00	DIP SWITCHES		
R174	RK73HB1J104J	MG RESISTOR	100K J 1/16W		X1	L77-3123-05	TCXO(19.2MHZ)		
R187	RK73HB1J105J	MG RESISTOR	1.0 M 1/16W						
R188	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W						
R189	RK73HB1J101J	MG RESISTOR	100 J 1/16W						
R190	RK73HB1J101J	MG RESISTOR	100 J 1/16W						
R191	RK73HB1J101J	MG RESISTOR	100 J 1/16W						
R192	RK73HB1J101J	MG RESISTOR	100 J 1/16W						
R193	RK73HH1J473D	MG RESISTOR	47K D 1/16W						

INTERFACE UNIT

XC3-0090-20(KRK-15B_M)

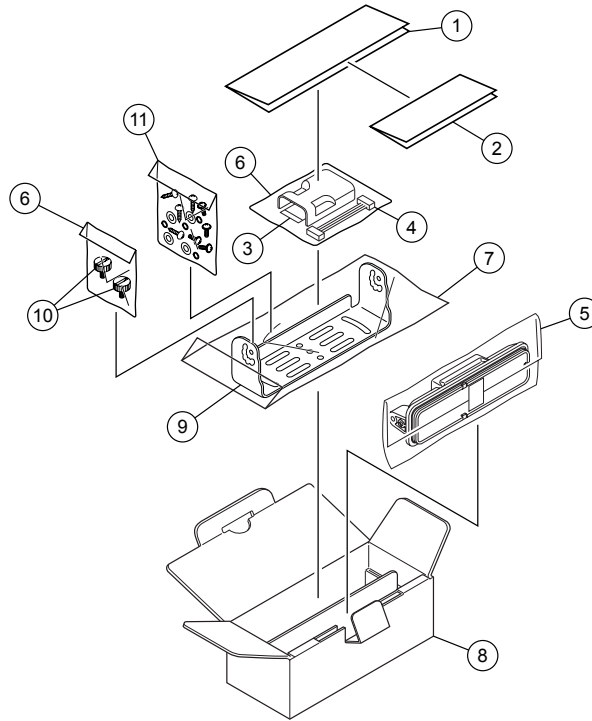
Block No. [0][2]

△ Symbol No.	Part No.	Part Name	Description	Local
IC1	OPA170AIDRLR	IC(MOS-IC)		
IC2	TJA1051TK/3	IC(MOS-IC)		
IC3	BU33TD2WNVX	IC(MOS-IC)		
IC4	TC74VHC4052AK	IC(MOS-IC)		
IC5	TC74VHC4052AK	IC(MOS-IC)		
IC6	BU7445HFV	IC(MOS-IC)		
IC7	PCA9555AHF	IC(MOS-IC)		
IC8	BU7242NXX	IC(MOS-IC)		
IC9	TC7W66FKF	IC(MOS-IC)		
IC10	TC7W66FKF	IC(MOS-IC)		
C2	CC73HCH1H101J	C CAPACITOR	100PF J	
C3	CC73HCH1H470J	C CAPACITOR	47PF J	
C4	CC73HCH1H470J	C CAPACITOR	47PF J	
C5	CC73HCH1H470J	C CAPACITOR	47PF J	
C6	CC73HCH1H470J	C CAPACITOR	47PF J	
C7	CC73HCH1H470J	C CAPACITOR	47PF J	
C12	CK73HB1E104K	C CAPACITOR	0.10UF K	
C14	CK73HB1E104K	C CAPACITOR	0.10UF K	
C15	CK73HBB1H471K	C CAPACITOR	470PF K	
C16	CK73HB1E104K	C CAPACITOR	0.10UF K	
C17	CK73HB1E104K	C CAPACITOR	0.10UF K	
C18	CK73GB1E105K	C CAPACITOR	1.0UF K	
C19	CK73HBB1H471K	C CAPACITOR	470PF K	
C20	CK73GB1E105K	C CAPACITOR	1.0UF K	
C21	CK73GB1E105K	C CAPACITOR	1.0UF K	
C22	CK73GB1E105K	C CAPACITOR	1.0UF K	
C24	CK73HB1E104K	C CAPACITOR	0.10UF K	
C25	CK73HB1E104K	C CAPACITOR	0.10UF K	
C26	CK73GB1E105K	C CAPACITOR	1.0UF K	
C27	CK73GB1E105K	C CAPACITOR	1.0UF K	
C28	CK73GB1E105K	C CAPACITOR	1.0UF K	
C29	CC73HCH1H101J	C CAPACITOR	100PF J	
C30	CC73HCH1H181J	C CAPACITOR	180PF J	
C32	CK73HB1E104K	C CAPACITOR	0.10UF K	
C34	CK73HB1E104K	C CAPACITOR	0.10UF K	
C35	CK73HB1H103K	C CAPACITOR	0.010UF K	
C36	CC73HCH1H181J	C CAPACITOR	180PF J	
C37	CK73HB1E104K	C CAPACITOR	0.10UF K	
C38	CK73HB1E104K	C CAPACITOR	0.10UF K	
C39	CK73GB1E105K	C CAPACITOR	1.0UF K	
C40	CK73GB1E105K	C CAPACITOR	1.0UF K	
C41	CK73GB1E105K	C CAPACITOR	1.0UF K	
C42	CK73GB1E105K	C CAPACITOR	1.0UF K	
C43	CK73HB1H102K	C CAPACITOR	1000PF K	
C44	CK73HB1H102K	C CAPACITOR	1000PF K	
C63	CK73HB1E104K	C CAPACITOR	0.10UF K	
C64	CK73HB1E104K	C CAPACITOR	0.10UF K	
C68	CK73GB0J106K	C CAPACITOR	10UF K	
C100	CK73GB1E105K	C CAPACITOR	1.0UF K	
C101	CC73HCH1H101J	C CAPACITOR	100PF J	
C102	CC73HCH1H101J	C CAPACITOR	100PF J	
C103	CC73HCH1H101J	C CAPACITOR	100PF J	
C104	CC73HCH1H101J	C CAPACITOR	100PF J	
C105	CC73HCH1H101J	C CAPACITOR	100PF J	
C106	CC73HCH1H101J	C CAPACITOR	100PF J	
C107	CK73HB1E104K	C CAPACITOR	0.10UF K	
C108	CK73HB1E104K	C CAPACITOR	0.10UF K	
C109	CC73HCH1H181J	C CAPACITOR	180PF J	
C110	CC73HCH1H181J	C CAPACITOR	180PF J	
R7	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R8	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R9	RK73HB1J820J	MG RESISTOR	82 J 1/16W	
R10	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R11	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R12	RK73HB1J273J	MG RESISTOR	27K J 1/16W	
R13	RK73HB1J102J	MG RESISTOR	1.0K J 1/16W	
R15	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R16	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R17	RK73HB1J273J	MG RESISTOR	27K J 1/16W	
R18	RK73HB1J473J	MG RESISTOR	47K J 1/16W	

△ Symbol No.	Part No.	Part Name	Description	Local
R19	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R20	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R22	RK73FB2B121J	MG RESISTOR	120 J 1/8W	
R23	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R24	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R25	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R26	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R27	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R28	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R29	RK73HB1J683J	MG RESISTOR	68K J 1/16W	
R30	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R31	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R32	RK73HB1J333J	MG RESISTOR	33K J 1/16W	
R33	RK73HB1J000J	MG RESISTOR	0.0 J 1/16W	
R37	RK73HB1J333J	MG RESISTOR	33K J 1/16W	
R38	RK73HB1J683J	MG RESISTOR	68K J 1/16W	
R39	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R40	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R41	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R42	RK73HB1J104J	MG RESISTOR	100K J 1/16W	
R67	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R68	RK73HB1J103J	MG RESISTOR	10K J 1/16W	
R100	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R101	RK73HB1J473J	MG RESISTOR	47K J 1/16W	
R102	RK73HB1J683J	MG RESISTOR	68K J 1/16W	
R103	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R104	RK73HB1J683J	MG RESISTOR	68K J 1/16W	
R105	RK73HB1J101J	MG RESISTOR	100 J 1/16W	
R106	RK73HB1J333J	MG RESISTOR	33K J 1/16W	
R107	RK73HB1J333J	MG RESISTOR	33K J 1/16W	
L1	LB73G0AM-004	CHIP FERRITE BEADS		
L2	LB73H0AV-003	CHIP FERRITE BEADS		
L3	LB73H0AV-003	CHIP FERRITE BEADS		
L4	LB73H0AV-003	CHIP FERRITE BEADS		
L5	LB73H0AV-003	CHIP FERRITE BEADS		
L6	LB73H0AV-003	CHIP FERRITE BEADS		
L7	LB73H0AV-003	CHIP FERRITE BEADS		
L8	LB73H0AV-003	CHIP FERRITE BEADS		
L9	LB73H0AV-003	CHIP FERRITE BEADS		
L10	LB73H0AV-003	CHIP FERRITE BEADS		
L11	LB73H0AV-003	CHIP FERRITE BEADS		
L12	LB73H0AV-003	CHIP FERRITE BEADS		
L13	LB73H0AV-003	CHIP FERRITE BEADS		
L14	LB73H0AV-003	CHIP FERRITE BEADS		
L15	LB73H0AV-003	CHIP FERRITE BEADS		
L16	LB73H0AV-003	CHIP FERRITE BEADS		
L17	LB73H0AV-003	CHIP FERRITE BEADS		
L18	LB73H0AV-003	CHIP FERRITE BEADS		
L19	LB73H0AV-003	CHIP FERRITE BEADS		
L20	LB73H0AV-003	CHIP FERRITE BEADS		
L21	LB73H0AV-003	CHIP FERRITE BEADS		
L22	LB73H0AV-003	CHIP FERRITE BEADS		
L23	LB73H0AV-003	CHIP FERRITE BEADS		
L24	LB73H0AV-003	CHIP FERRITE BEADS		
L25	LB73H0AV-003	CHIP FERRITE BEADS		
CN1	E40-6913-05	FLAT CABLE CONNECTOR		
CN2	E41-2673-05	PIN ASSY		
CN3	EA710AC-1516B	WIRE TO BOARD CONNECTOR SMD		
CN4	EA710AC-1516B	WIRE TO BOARD CONNECTOR SMD		
CP1	RK74HB1J100J	NET RESISTOR	10 J 1/16W	
CP3	RK74HB1J101J	NET RESISTOR	100 J 1/16W	
CP4	RK74HB1J101J	NET RESISTOR	100 J 1/16W	
S1	S7K-0003-00	DIP SWITCHES		

Packing materials and accessories parts list (KRK-14H)

Block No.M3MM



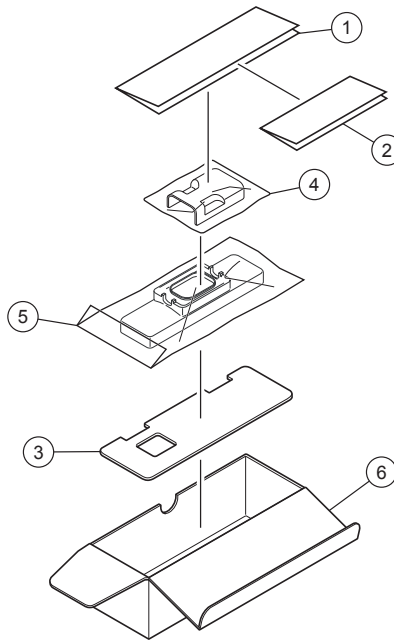
Packing and accessories

Block No. [M][3][M][M]
Local

Symbol No.	Part No.	Part Name	Description	Local
1	-----	PAMPHLET(ROHS)		
2	-----	PAMPHLET		
3	E3F-0019-00	FLAT CABLE(50PIN TO HEAD)		
4	E3H-0008-00	LEAD WIRE WITH CONNECTOR(4PIN TO HEAD)		
5	-----	ANTI-STATIC BAG		
6	-----	PROTECTION BAG(60/110/0.07)	(x2)	
7	-----	PROTECTION BAG(100/250/0.07)		
8	H5A-0244-00	ITEM CARTON		
9	J1K-0003-00	BRACKET		
10	N08-0550-14	DRESSED SCREW(BRACKET)	(x2)	
11	N9X-0009-00	SCREW SET		

Packing materials and accessories parts list (KRK-15B)

Block No.M4MM



Packing and accessories

Block No. [M][4][M][M]
Local

△ Symbol No.	Part No.	Part Name	Description
1	-----	PAMPHLET(ROHS)	
2	-----	PAMPHLET	
3	H1C-0004-00	PACKING FIXTURE	
4	-----	PROTECTION BAG(MOLDING COVER)	
5	-----	PROTECTION BAG (100/250/0.07)	
6	H5A-0245-00	ITEM CARTON	



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