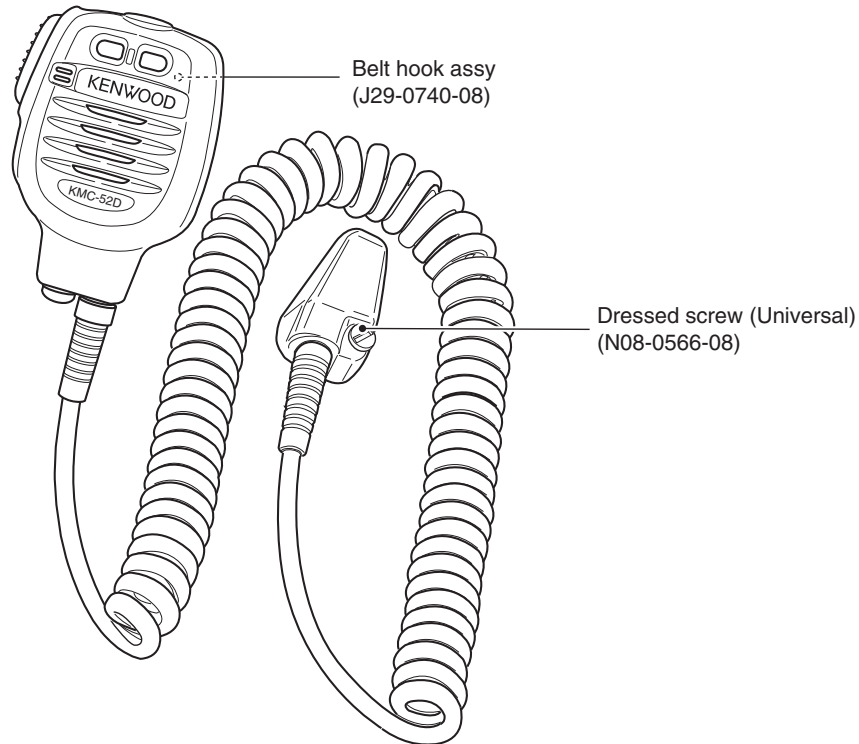


SPEAKER MICROPHONE  
**KMC-52D**  
SERVICE MANUAL

**KENWOOD**

JVCKENWOOD Corporation

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## SPECIFICATIONS

### General

Operating temperature range  
.....-30°C ~ +60°C (-22°F ~ +140°F)

### Microphone

Impedance .....600Ω (MAX)  
Sensitivity .....-39dB ±3.5dB at 1kHz

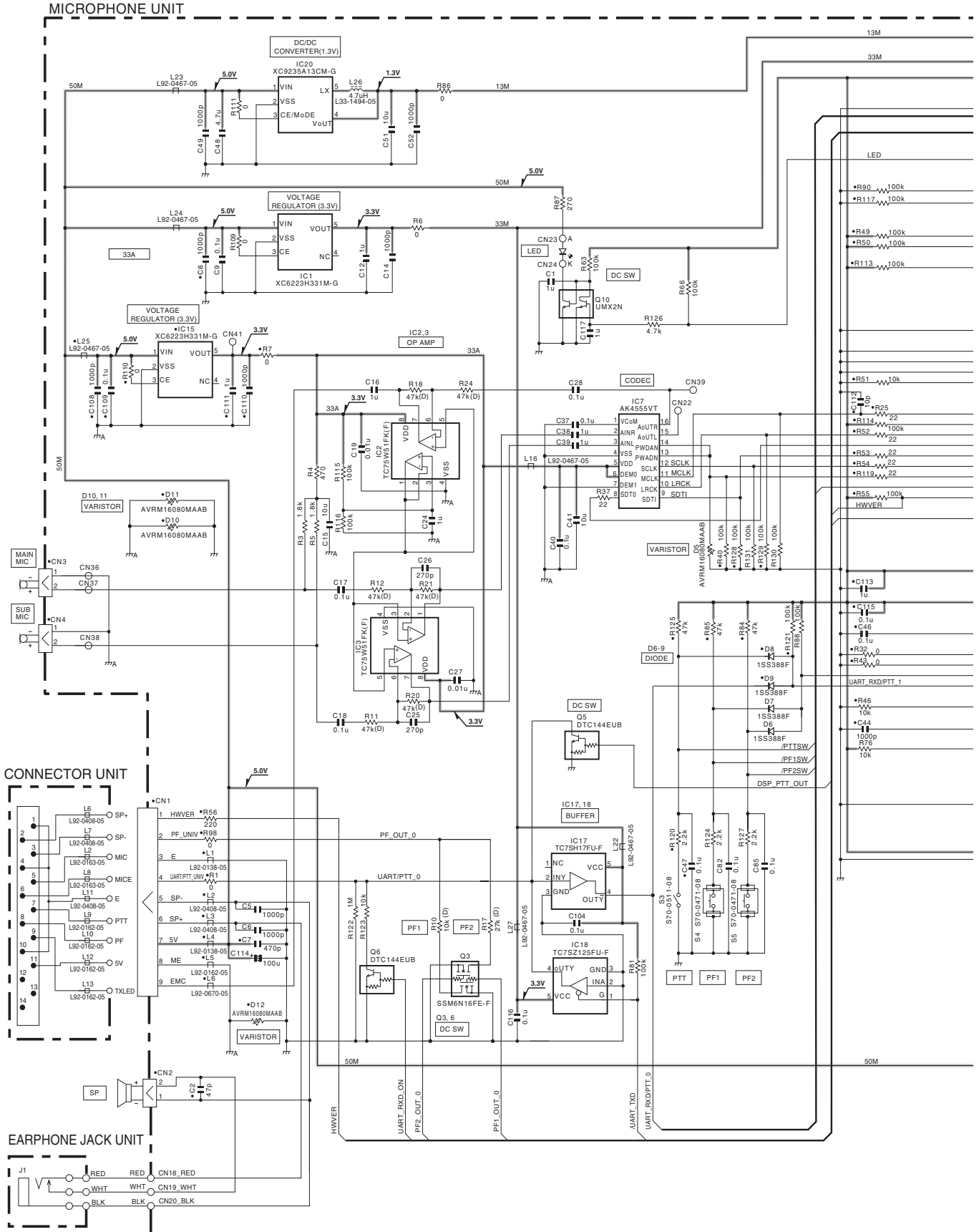
### Speaker

Impedance .....16Ω ±15% at 1.2kHz  
Rating input ..... 0.8W  
Maximum input ..... 1.6W  
Dimensions (W x H x D)  
..... 67.8 x 91.5 x 43.3 mm (2.67 x 3.60 x 1.70 in)  
Weight ..... Approx. 260g/9.2oz



# KMC-52D

# SCHEMATIC DIAGRAM





# KMC-52D

## NOISE CANCELLATION OPERATION CHECK METHOD

Check the noise cancellation operation according to the following procedures.

### ■ Preparation

Procedure 1. Prepare the two transceivers (transmitting side and receiving side) and one microphone. (The receiving side can also use the radio communication tester, etc..)

Procedure 2. Set the two transceivers so that they can communicate.

Procedure 3. Connect the microphone to the universal connector on the transmitting transceiver.

Procedure 4. Press the PTT switch of the microphone (the transceiver will transmit if the LED lights up).

### ■ Checking the main microphone

Procedure 5. Blow into the front side microphone hole, from a distance of 3 to 4 cm (1.18 to 1.57 inches).

#### [Expected Result]

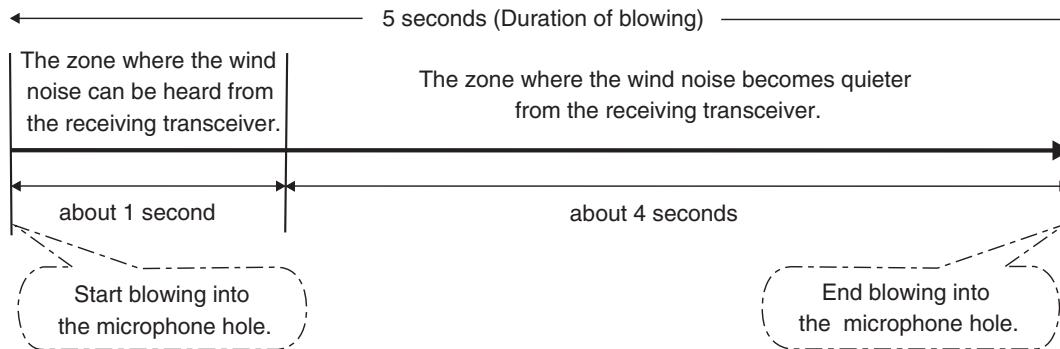
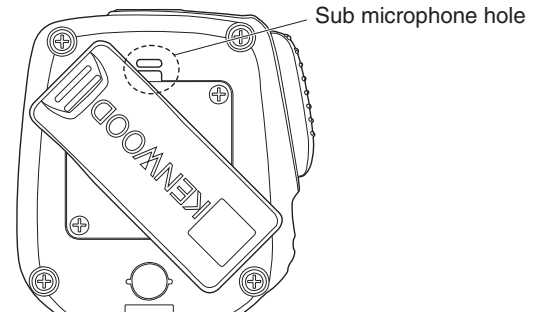
It is OK if you can hear a wind noise from the speaker of the receiving transceiver.

### ■ Checking the sub microphone

Procedure 6. Blow into the rear side microphone hole for 5 seconds, from a distance of 3 to 4 cm (1.18 to 1.57 inches).

#### [Expected Result]

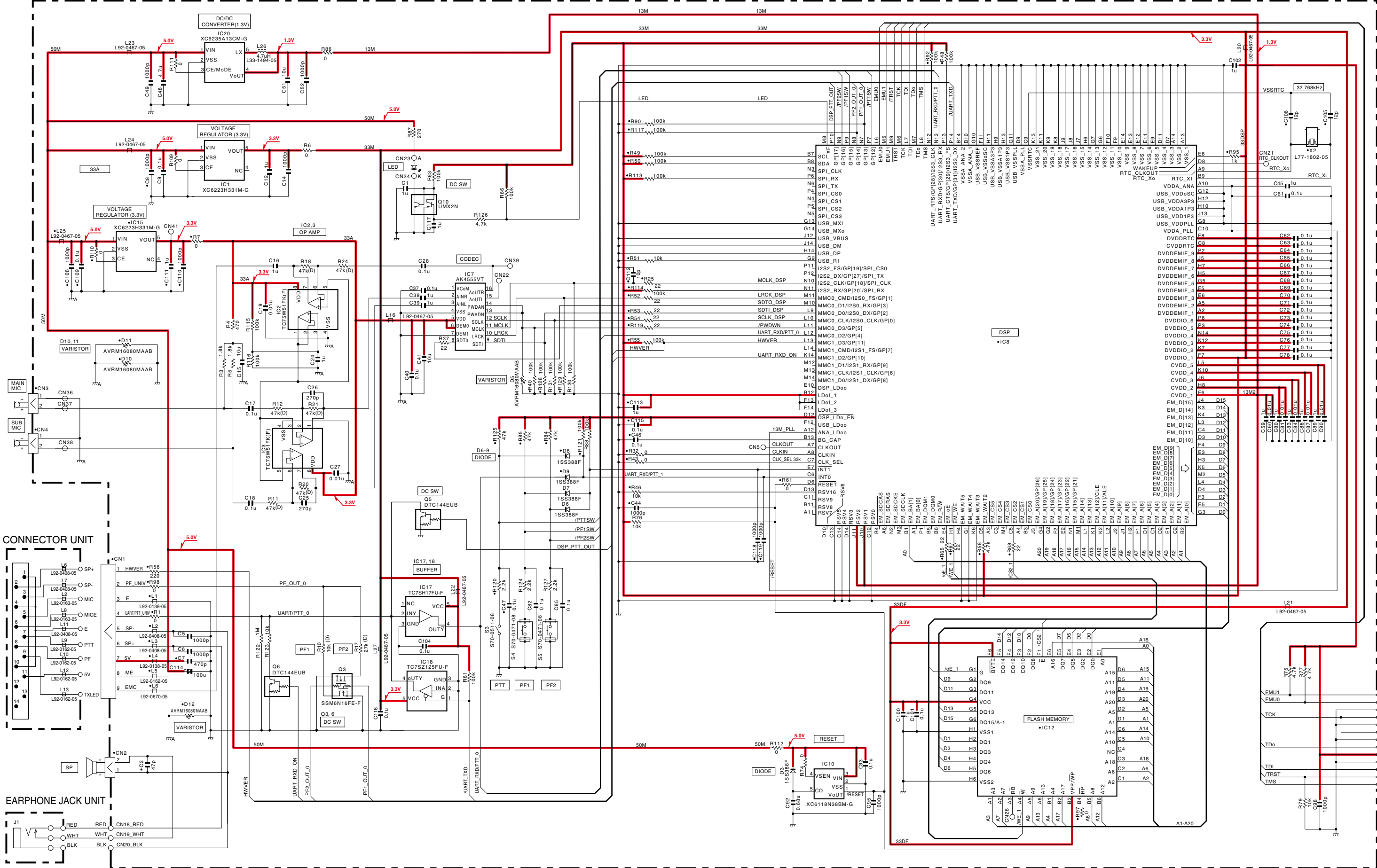
You can hear a wind noise from the speaker of the receiving transceiver for about 1 second. Then, it is OK if the wind noise level becomes quieter.



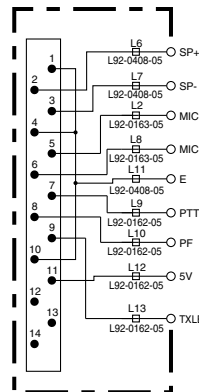
# KENWOOD

JVC KENWOOD Corporation  
Communications Equipment Div

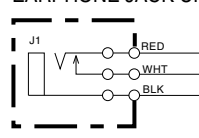
MICROPHONE UNIT



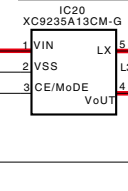
CONNECTOR UNIT



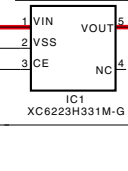
EARPHONE JACK UNIT



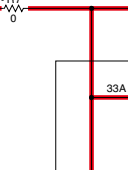
DC/DC CONVERTER(1.3V)



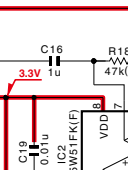
VOLTAGE REGULATOR (3.3V)



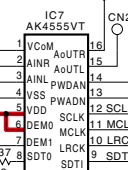
VOLTAGE REGULATOR (3.3V)



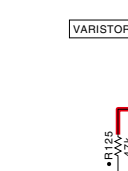
OP AMP



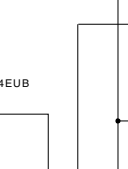
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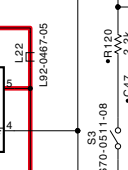
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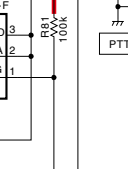
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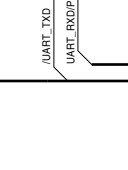
DC SW



DC SW



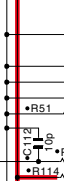
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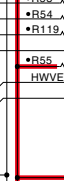
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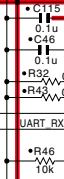
LED



LED



LED



LED



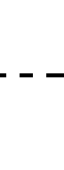
LED



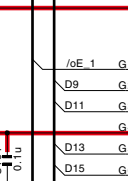
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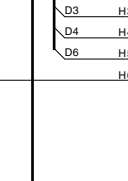
LED



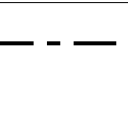
FLASH MEMORY



FLASH MEMORY



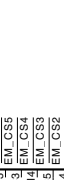
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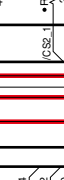
DSP



DSP



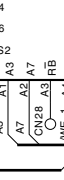
DSP



DSP



DSP



DSP

