

# KENWOOD

ASB-967R

## Service Bulletin

Amateur Radio Division

**Subject:** TM-701 Intermittent Memory Loss

**Date:** July 16, 1992

### Background:

Some TM-701A owners have reported that the transceiver intermittently loses its memory channel information at power on. The following modification will absorb pulses on the CPU interrupt line (INT4) and reconfigure the backup switching circuit to avoid unintentional memory loss.

**WARNING:** This radio uses micro-sized surface mount components, and/or multi-layer circuit boards. *If you are not familiar with the techniques for service of this type of equipment do not attempt this modification yourself.* You will invalidate your warranty if you attempt to modify the equipment and damage the radio. If you are at all in doubt about your qualification to perform this modification you should seek qualified assistance.

### Required Parts:

220uf, 6.3v Electrolytic Capacitor	CE04NW0J221M
.01uf Ceramic Capacitor	CK45B1H103K
.022uF Ceramic Capacitor	C91-0457-05 (Revised)
2.2K ohm Chip Resistor	RK73FB2A222J
1K Ohm Carbon Resistor	RD14BB2C102J
2.0v Zener Diode	MTZ3.0JB

### Procedure:

1. Disconnect the power supply, antenna and microphone.
2. Remove the top and bottom covers (12 screws). You may want to disconnect the speaker and set it aside.
3. Remove the knobs from the front panel.
4. Remove the nut from the microphone jack and the 11mm nut from the channel selector switch.
5. Remove the 4 screws that secure the front panel to the body of the transceiver.
6. Pull the front panel off the transceiver to expose the Control Board.
7. Remove the 3 screws from the Control Board. Gently pull the board off the transceiver.
8. Perform the changes shown in the accompanying diagram. C202 is on the component side of the Control Board. All other work will be done on the foil side of the board.

This modification may be covered under warranty. Time required for this modification is 1 hr or less.

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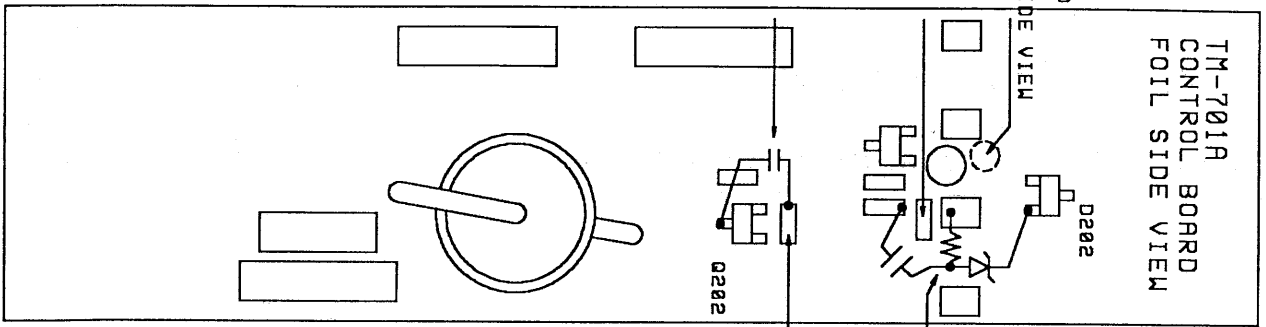
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Communications and Test Equipment Group

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TM-701A  
CONTROL BOARD  
FOIL SIDE VIEW



C202  
CHANGE  
10uF, 15V TO  
220uF, 6.3V  
COMPONENT SIDE VIEW

REMOVE  
C203

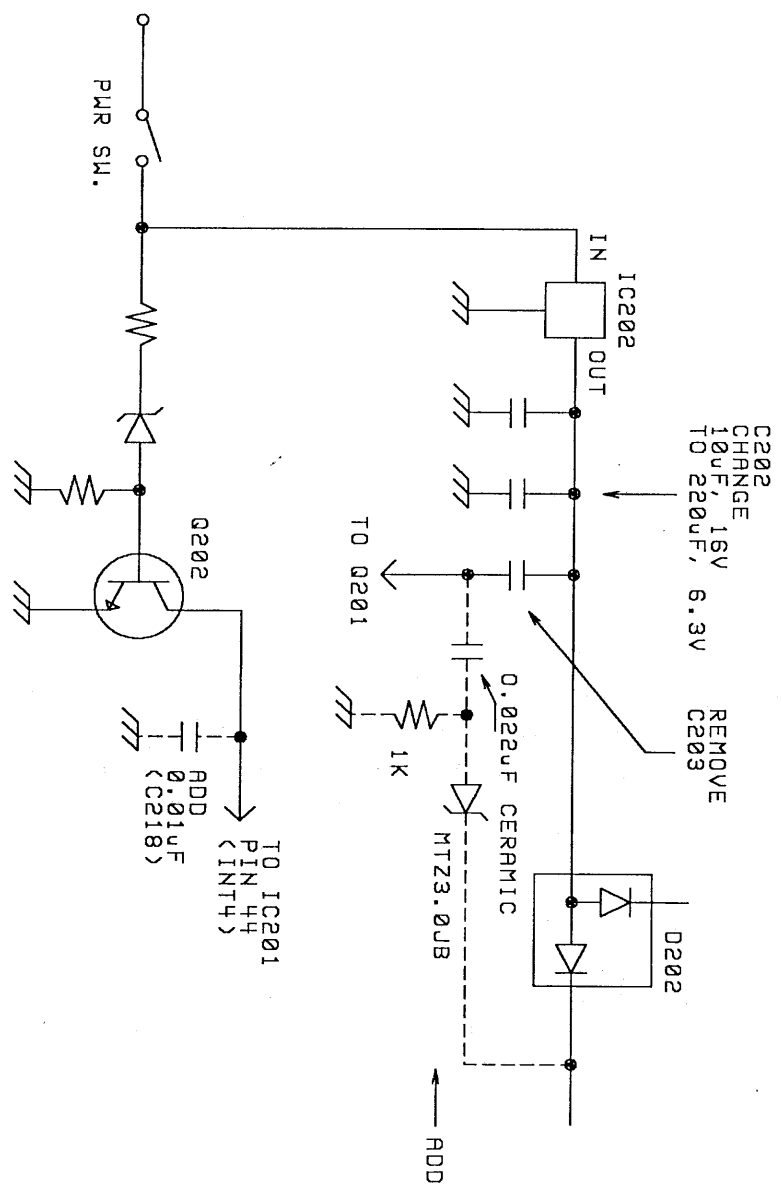
ADD  
0.01uF  
CERAMIC  
CAP

D202

ADD  
MT23.0JB ZENER  
1K RESISTOR  
0.022uF  
CERAMIC CAP

R236  
CHANGE  
470K TO  
2.2K

Q202



C202  
CHANGE  
10uF, 15V  
TO 220uF, 6.3V

REMOVE  
C203

0.022uF CERAMIC  
1K  
MT23.0JB  
TO Q201

TO IC201  
PIN 44  
(INT4)

ADD  
0.01uF  
(C218)

R236  
CHNG  
470K TO 2.2K

PWR SW.

IN  
IC202

OUT  
IC202

Q202

D202

ADD