

 <b>ROLAND SERVICE INFORMATION</b>	NO.	100222
	DATE	August 4, 1984

PRODUCT AFFECTED: JUNO-106

TO SERVICE ENGINEERS: SUBJECT  
COUNTERMEASURE TO MEMORY BACK UP BATTERY

We inform you that we have taken a modification to JUNO-106 to set longer battery life than now from the serial number 437300 (last June production). This information is issued for solution you can apply to JUNO-106 with the serial numbers 437299 and before when you have a chance to repair it.

PROBLEM

It was found that JUNO-106 is likely to break memory data in a short period as IC-4 40H000P on CPU BOARD draws a variance current ranging 250 micro ampere to zero.

CAUSE & SOLUTION

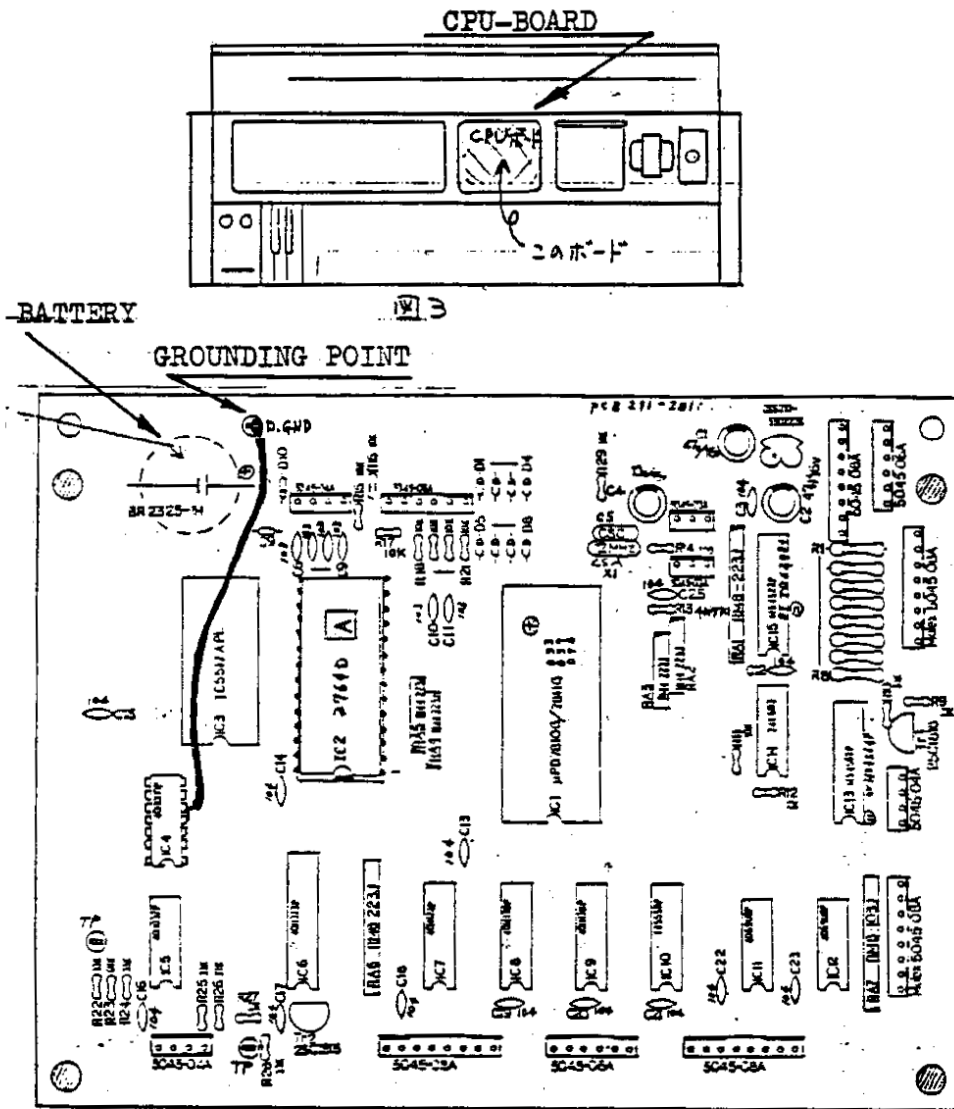
The "floating" inputs (pins 4 and 5) of the unused section of IC-4 40H000P are the cause of this problem. The solution is that they should be connected to ground point by using a jumper wire. Please refer to the attached drawing.

NOTE: If you have a chance to repair JUNO-106 on any problem, please take the following steps, certainly.

- STEP-1: Check whether the battery voltage is more than 2.8V or not.
- STEP-2: If the battery voltage is less than 2.8V, please replace the battery with new one and then take above modification to CPU BOARD.
- STEP-3: If the battery voltage is more than 2.8V, you do not need to replace the battery but need to take the modification.

NOTE: Before proceeding above steps, please save DATA (group A and B) into an external cassette tape to keep a memorized DATA.

JUNO-106 MODIFICATION



NOTE: Firstly, connect a jumper wire to above ground point to prevent breaking IC from happening on, and then, connect the jumper wire to pins 4 and 5 of IC-4.



Pins 4 and 5 must be connected to grounding point by using a jumper wire.

 <b>ROLAND SERVICE INFORMATION</b>	NO	100229
	DATE	Dec. 21, 1984

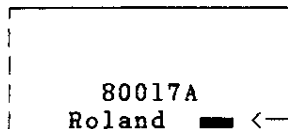
PRODUCT AFFECTED: JUNO-106/MKS-30/GR-700

TO SERVICE ENGINEERS: SUBJECT  
 IC AIQ-80017 FOR JUNO-106/MKS-30/GR-700

Recently there are many IC(AIQ-80017) faults on JUNO-106.  
 So we checked this IC and found the following trouble points.

- 1) Obfected IC Lot: 41C and 42B lots
- 2) Problem: Leakage between jump wire and -15V line on IC.  
 Poor soldering.  
 Surface leakage etc....
- 3) Countermeasure: Must be replaced with the new one  
 (the other lot).

So when you meet to repair the above model, please check this  
 and replace it with the new one if necessary.



← Indicated IC Lot no.