

RTS-TB-029**20-June-2014****RP-1000 Microphone Gating Rework**

Issue Severity:	Product(s) Affected:
<input type="checkbox"/> High: URGENT – Immediate Action Required	<ul style="list-style-type: none">RP-1000 panels manufactured and shipped prior to July 2014
<input checked="" type="checkbox"/> Medium: Bosch Security Systems, Inc. strongly recommends you take the action(s) described below.	
<input type="checkbox"/> Low: Advisory	
Notification Applies To:	Access Restrictions:
<input checked="" type="checkbox"/> Technical Support (TSS)	<input type="checkbox"/> Internal Distribution <u>ONLY</u>
<input checked="" type="checkbox"/> Repair (ASA)	<input checked="" type="checkbox"/> <u>No</u> Restrictions (Internal & External Distribution)
<input checked="" type="checkbox"/> Sales (NSO / RSO)	

1.0 Issue

There have been several field complaints from various regions regarding a gating behavior on the RP-1000 microphone circuits (both headset and panel). This behavior was originally seen on early CLD panels before a change was made to a component value in the design. As part of the recent move of the analog PCBAs from one manufacturing facility to another, this change was omitted on RP-1000 builds. As such, an audible gating effect has returned to the microphones on the unit.

2.0 Resolution / Corrective Actions

In order to address this issue, four resistors need to be replaced on the analog daughter card of the RP-1000. These resistors effectively disable the gating behavior of the analog compression ICs present on all microphone circuits. This returns the behavior to the same performance as the previous CLD panels.

3.0 Detailed Rework Instructions



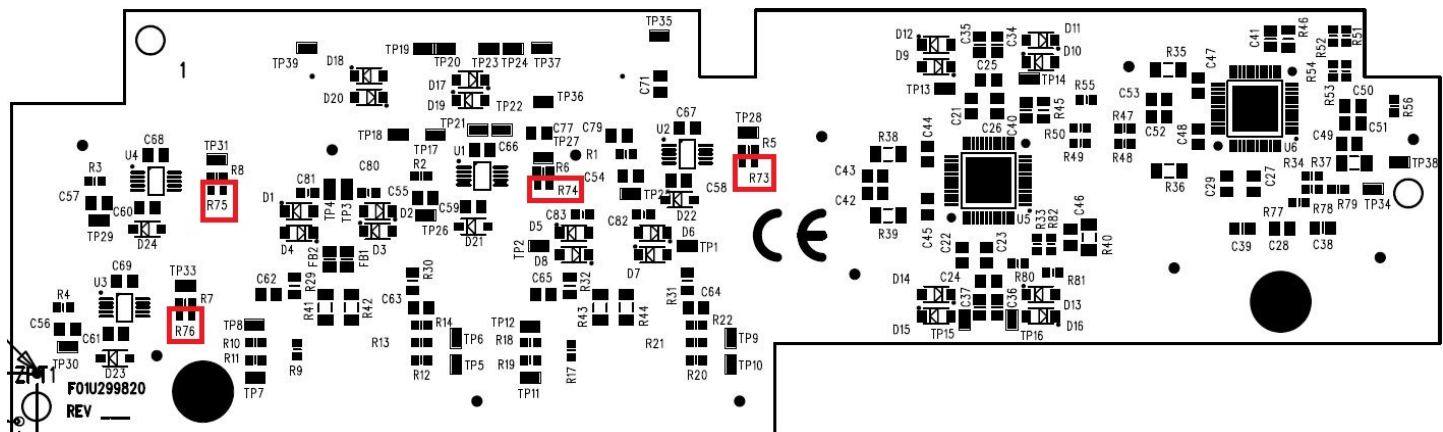
NOTICE! The following rework should only be performed by qualified repair personnel operating according to proper safety, ESD and soldering practices

The assumption is made that the repair technician is capable of removing the analog daughter PCBA (F.01U.284.620) from the unpowered RP-1000 unit.

Necessary rework parts:

- 4 pieces of 30.1 kOhm 0603 1% 0.1W resistor (Bosch part number F.01U.013.116, F.01U.164.192 or equivalent)

1. Locate gating resistor reference designators R73, R74, R75 and R76 according to the assembly drawing below.



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2. Remove and discard the existing resistors located at locations R73, R74, R75 and R76.
3. Solder the 30.1 kOhm 0603 1% 0.1W part (F.01U.013.116 or equivalent) onto R73, R74, R75 and R76.
4. Re-assemble PCBA into RP-1000 and re-test for proper operation.