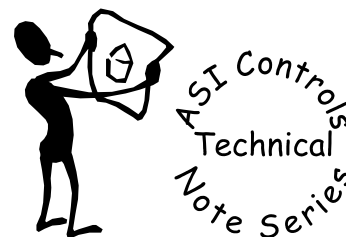




ASIC/1-6000 Floating Actuator Problem

Affects: ASIC/1-6000, -PD, -MB, -MB-PD

Date: 20 June 2008

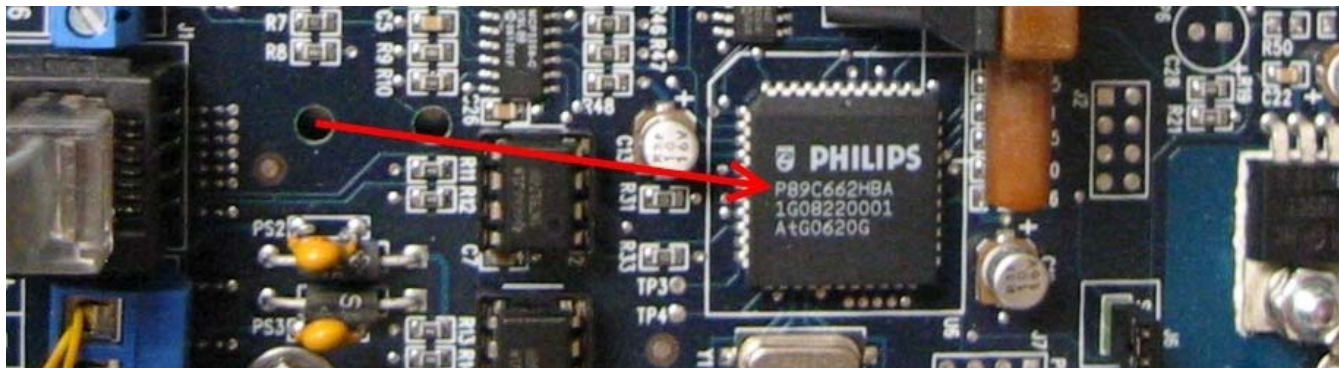


Note No. TN-040

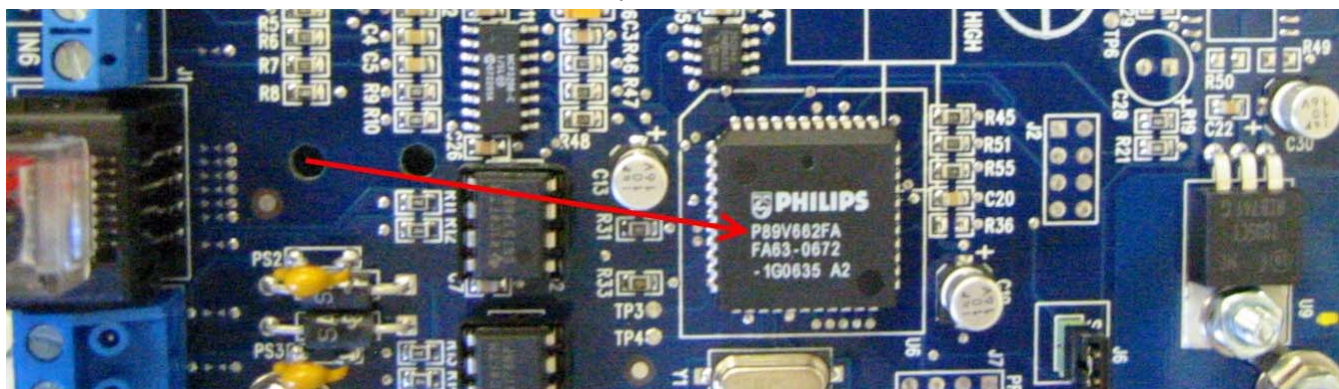
We have identified a possible problem when using newer (2008 model) ASIC/1-6000 controllers with a floating (tri-state) hot water valve actuator. It appears to be caused by the new ROHS or lead free "green" version of the microprocessor.

We received a report from one customer that some ASIC/1-6000 controllers would stop communicating and controlling within 24 hours. We have since found in testing that this problem occurs with controllers using a new "green" processor and certain floating hot water valve actuators controlled by outputs 3 and 4. Our testing has not found any problem when using relays connected to outputs 3, 4 or 5 or when positioning the integral damper actuator using outputs 1 and 2. No problems have been found when using the analog output to position a hot water valve actuator either.

We began shipping a portion of ASIC/1-6000 controllers with a newer ("green"), lead-free processor subsequent to February 1, 2008. The newer processor can be identified by looking at the Philips P89 chip on the circuit board (U6). Chips beginning with "P89V" are the newer "green" processors; chips beginning with "P89C" are the older processors. Two images are provided below to help you identify which processor your controllers uses. Our testing has not found any problems with the P89C processors.



Older processor P89C



Newer (green) processor P89V

Please contact Technical Support at 925-866-8808 (option 3) if you have controllers using P89V processors and floating hot water valve actuators.