

Title: **32MP I-O BOARD COMPONENT FAILURE**

Number: C8904
Date: 4/7/89

Models Affected: 17/19 32MP CHILLERS, RETROKITS, AND RCD REPLACEMENTS
SHIPPED FROM OCTOBER 1988 TO APRIL 1989

Supersedes:
Date:

EMERGENCY ALERT!

READ THIS BULLETIN BEFORE POWERING UP ANY NEW 32MP CONTROLS!

PURPOSE:

This bulletin provides information on a component failure on 32MP input-output boards shipped from October 1988 to April 1989 that can lead to improper chiller and auxiliary equipment starts and subsequent damage.

BACKGROUND:

The HK35EZ002 and HK35EZ008 I-O boards shipped from the supplier between October 1988 and April 1989 (s/n xxx8844 to 8916) have a misrated component. The MOV's in question are small disk-shaped devices with two leads, located just to the right of the large heat sink bar, near the fuses. The board is stamped RV1 through RV12 on the right side of the MOV's. Early versions were red, blue or black but recently the supplier switched to a green MOV made by Sanken. The MOV is a miniature surge protector, in parallel with the output triacs, intended to protect the triacs from voltage surges from the power supply to the control panel or from component starter relays back to the I-O board.

PROBLEM DEFINITION:

Since the Sanken MOV is not of the proper rating it can overheat and fail when the power is turned on, even with the chiller shutdown. It is likely that it will short as it fails and then the output (pumps or even compressor starter) is powered from L1 and can't be turned off. All chillers, retrokits and replacement boards shipped from TR1 or RCD from November 1988 to April 1989 must be inspected; and all I-O boards with green MOV's must be removed. Boards can be returned to RCD for repair by the supplier. Repair depots have been set up by Zone Service Personnel for the convenience of international customers.

MAIL KEYS: 2.33B, 2.33D, 2.40B, 2.45, 2.53, 5.14A, and 5.14B

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TEMPORARY FIX:

If a chiller must be operated and an I-O board with good MOV's (not green) isn't available, the green MOV's can be cut off and removed and the control will still function properly. The board should be changed out as soon as reworked I-O's are available, however, to provide full protection of the triacs.

DO NOT LEAVE POWER ON ANY CONTROL WITH GREEN MOV's! SERIOUS DAMAGE CAN RESULT!

WARRANTY EXPENSE:

Your warranty administrator will be advised of the details of how to handle documented expenses associated with this problem as soon as they are available. It is important to track down all suspect boards at once to minimize the inconvenience to customers and cost to Carrier.
