

Title: **LOCKED UP ESP'S**

Number: C8908

Date: 8/23/89

Supersedes: NEW

Date:

Models Affected: 32MP ESP's - 1988 & 1989 PRODUCTION

**Purpose:** This bulletin provides information regarding ESP's that lock up randomly and display all "5555's" or an "E".

**Background:** During this operating season reports of ESP's that lock up with "5555" or "E" in the display have become quite common. It has been determined that the problem is related to the clear ribbon cable located between the touch pad/display board and the middle printed circuit board of the ESP assembly.

The ribbon cable is made up of two separate layers with conductors printed on the facing surfaces. Two of the conductor traces overlap and if the insulation between those two overlapping traces breaks down even slightly it's like holding down the recall button which will display "5555" and then "E" if further keystrokes are made.

The chiller continues to run with its safeties and options intact but the ESP is disabled.

**Procedure:** Remove the back and then the middle printed circuit boards which will expose the clear plastic ribbon cable with a blue connector at the middle board. Carefully pull the connector from the board and with care separate the two layers of the ribbon cable and insert a thin insulator between them, the full length and width of the ribbon. The insulating material can be mylar or plastic film such as that used with overhead projectors. Trim the insulator so it can be pushed in around the first bend where the ribbons come out of the touch pad/display board.

If the ESP continues to lock up replace it and return it to RCD (for warranty credit if it is in warranty.)

All boards shipped from August on have the insulator installed by the supplier. The serial number of corrected boards is 8930 and later.

AMJ/sm

Attachment

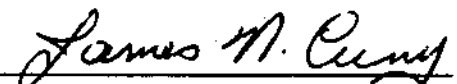
FILE INSTRUCTIONS: CONTROLS-WIRING

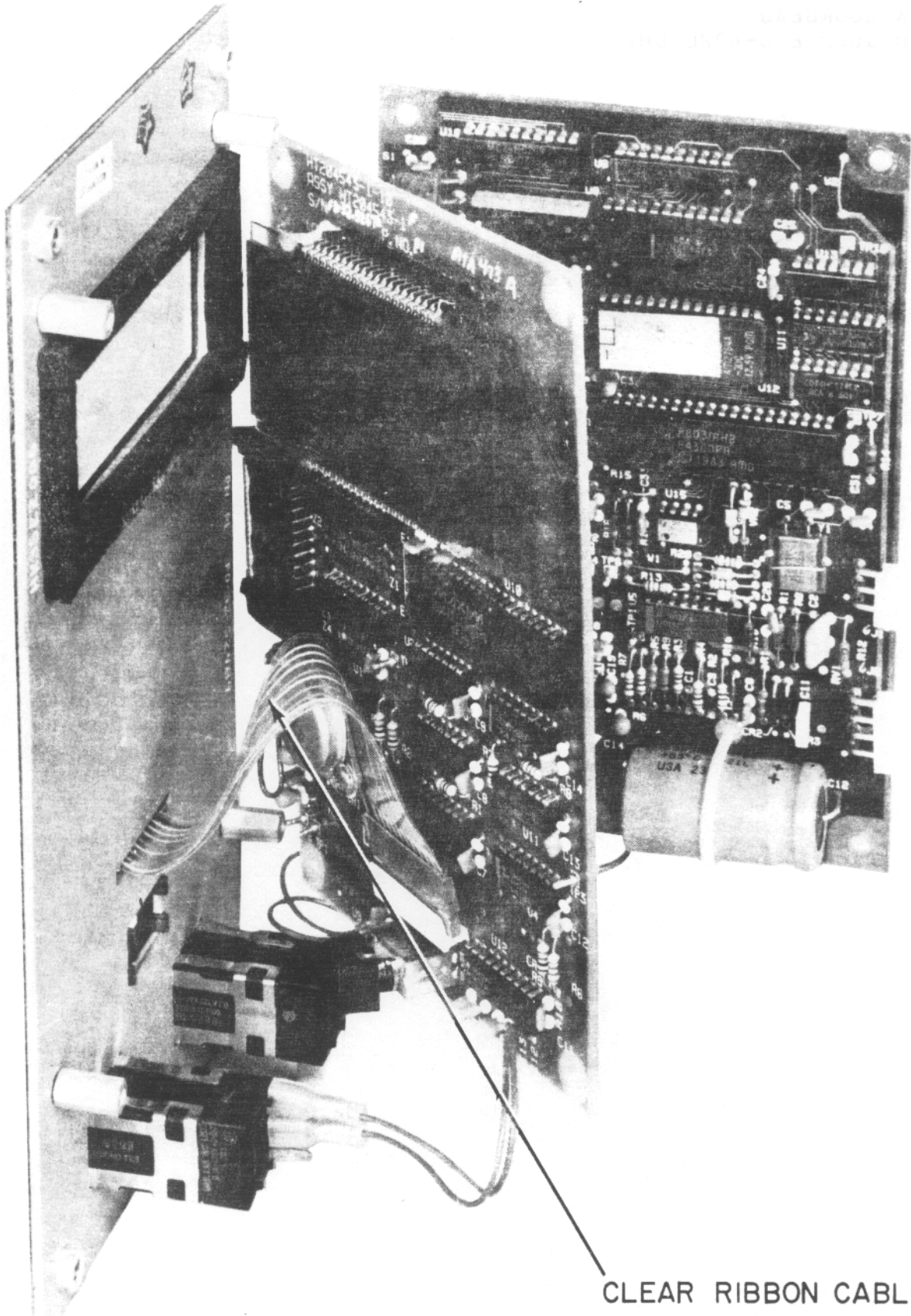
MAIL KEYS: 2.33B, 2.33D, 2.40B, 2.45, 2.53, 5.14A, and 5.14B

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CLEAR RIBBON CABLE