MODEL 500DR

RELAY CARD

GENERAL PROCEDURE

» **BEFORE REMOVING OR INSERTING CIRCUIT CARDS, TURN OFF POWER TO THE MAINFRAME. FAILURE TO DO SO MAY RESULT IN DAMAGE TO THE CARDS AND WILL VOID THE WARRANTY.**

Installation of the 500DR Zone Output card consists of two steps:

1. Check and/or set the address
2. Plug the 500DR card in to its proper slot in the 500M/500ME mainframe. Be sure that the component side of the 500DR card faces left as seen from the front of the mainframe.

ADDRESS

Given that all the cards are plugged into the same control bus, the address is the scheme by which the computer identifies the 500DR with which it wishes to communicate. The address range is 0 to 127. 500DR cards are addressed in a group together with the 500D cards. There is no conflict between the addresses for the 500D/500DR and other cards in the system, but each 500DR card must have a unique address, and must not duplicate a 500D address. To avoid confusion and possible errors, addresses are factory preset, starting with 1 + the last 500D card address. Addresses are selected using the jumper array, J3, located near the lower left corner of Figure 2. Each jumper position is marked with a value adjacent to it on the printed circuit board (see the magnified view on the left side of the drawing). These values are 1, 2, 4, 8, 16, 32, and 64. In the magnified view, jumpers are shown in positions 1, 2, and 8. The address would be:

1 + 2 + 8 = 11

CORRECT SLOT

Systems are configured at the factory with the 500DR cards grouped with the 500D cards. The first 500DR card is located in the slot to the right of the last 500D card, and additional 500DR cards continue to the right. The first 500DR card address is 1 + the last 500D card address. Addresses for additional 500DR cards progress in sequence to the right. 500DR card slots must always be associated with 500GT boards on the rear of the 500M/500ME Mainframe.

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If a 500DR card is replaced for any reason, the address of the new card must be set to the same value as the card which was removed.

LED INDICATORS

Each 500DR card has 8 green LEDs near the bottom of the front edge. One is for each relay. The LEDs are arranged in order starting with 1 at the top. A LED lit means that the relay is currently energized.

SELECTING RELAY OPTIONS

Relay options are factory preset to customer specifications by jumpers soldered directly to the solder side of the printed circuit board. Selections may be verified by referring to to Figure 1 below. Modifying the selections in the field will void the warranty.

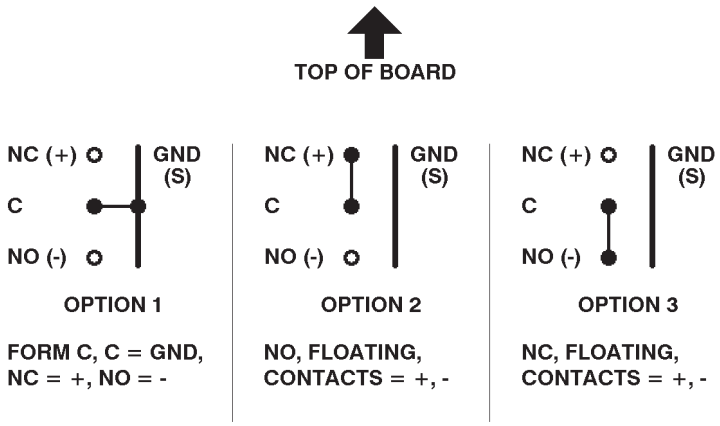

Figure 1 - Relay contact option selections

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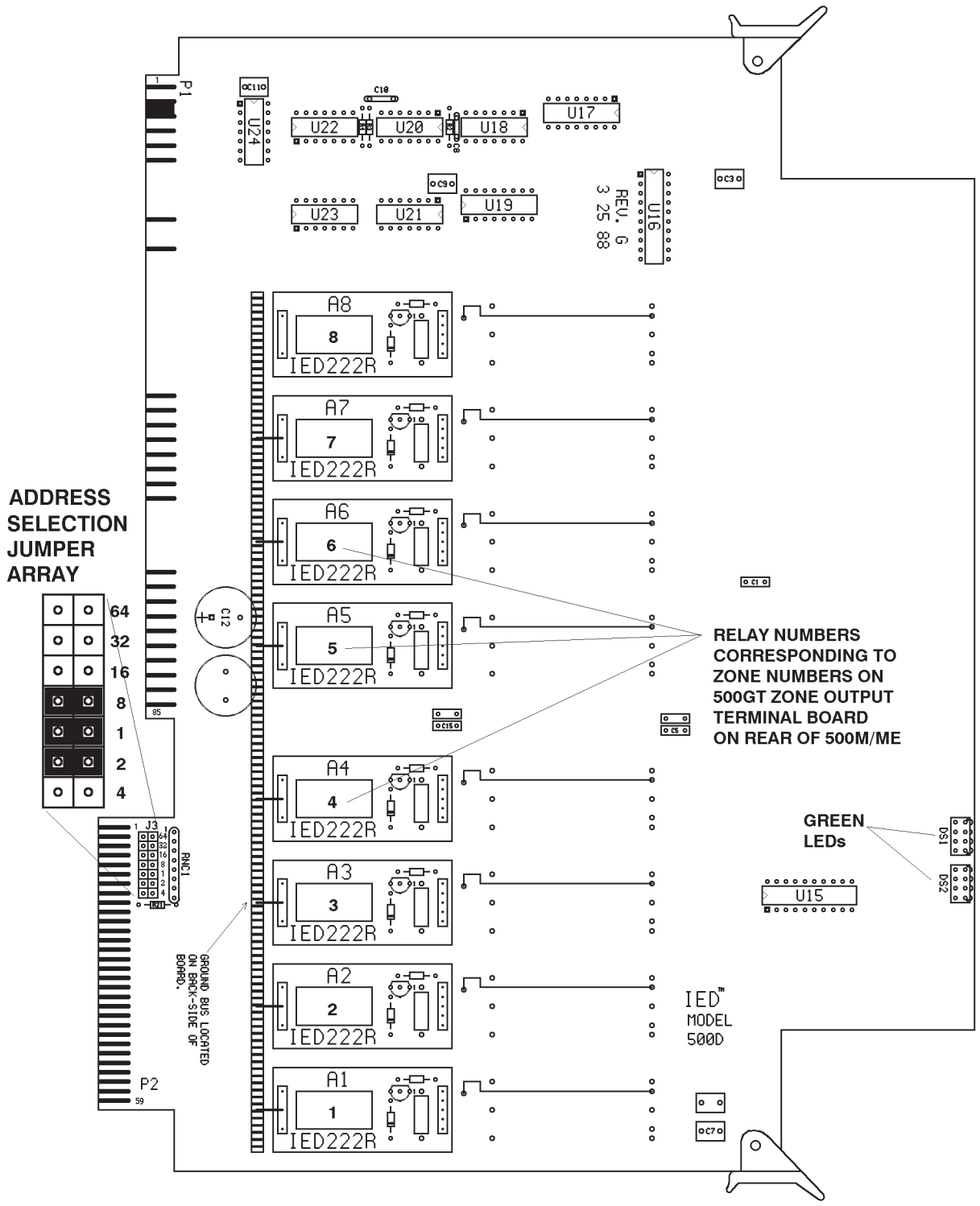

Figure 2 - 500DR card showing location of address jumpers

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