

ADEMCO

INSTALLATION INSTRUCTIONS

No. 685-8 MULTI-FORMAT LINE CARD

FOR USE WITH No. 685 DIGITAL ALARM RECEIVER

IMPORTANT!

The No. 685 Digital Alarm Receiver **must** be equipped with Rev. 4.0 (or higher) software to function with the No. 685-8 Multi-format Line Card. An attempt to use the card with earlier versions may cause the system to crash whenever the line card is called.

The No. 685PR2 Software Upgrade Package is available for converting receivers with earlier software to Rev. 4.0.

INTRODUCTION:

The No. 685-8 Multi-format Line Card allows the No. 685 Digital Alarm Receiver to handle a number of transmission formats over a single phone line. Until now, separate cards (e.g. Nos. 685-1, 685-2, 685-3, 685-4) and phone lines were required for each type of transmission.

When called, the line card will follow a pre-defined sequence of acknowledge tones until it hears a communicator start transmitting. The acknowledge sequence may be programmed into the supplied No. 691 PROM that is then inserted into the line card. **If no PROM is used, the card will automatically use the sequence of: Ademco HI Speed, Ademco LOW Speed and SESCOA/Radionics.**

With the addition of the Rev. 4.0 software to the No. 685, the No. 685-8 as well as the Nos. 685-1, 685-2, 685-3 and 685-4 Line Cards can now handle variable length messages. The message formats that can be handled include:

- 3-1 (3 digit account number, 1 digit event code)
- 3-1 w/checksum (cannot be mixed with 4-1 on the same card)
- 4-1
- 4-2
- 4-2 w/checksum
- 4-1 and 3-1 w/checksum cannot be mixed since they both use 5 digits. The receiver must be told which format to use. The default format is 4-1. (See PROGRAMMING section below).

Note: When the No. 685 receives 4-2 messages, the first digit of the event code is used for determining the English language translation of the message. For example, if the message 1234 B3 were received, the B would determine the meaning of the message (in this case, it is an opening report).

PROGRAMMING:

The acknowledge tone numbers that may be programmed into the No. 685-8's PROM for various formats are:

- 0 - Skip this entry
- 1 - Ademco HI Speed (100 msec each: 1400 Hz/PAUSE/2300 Hz)
- 2 - Ademco LOW Speed (1400 Hz)
- 3 - SESCOA/Radionics (2300 Hz)

Note: Entries other than those listed above will be interpreted as skips.

1. **List the order of acknowledge tones desired.** A sequence of up to 3 tones may be used.
 - a. For quickest response, list only those tones applicable to the equipment formats to be used on that phone line.
 - b. List the line's predominant equipment format first, followed by the lesser used formats. **EXCEPTION:** Ademco HI Speed should **always** be listed **ahead** of Ademco LOW Speed if **both** are to be used.

- c. If only one or two tones are to be used, follow with two or one "0 - Skip this entry" numbers respectively (0 numbers not needed if programming is to be done on a No. 699 PROM Programmer).

2. **Use a No. 690 or 699 PROM Programmer to program the order list into the SECONDARY ACCESS NUMBER of the supplied No. 691 PROM.**

If using a No. 690 PROM Programmer proceed as follows:

- a. Insert the PROM into the NEW PROM socket following standard programmer procedure.
- b. Set the rotary switch on the programmer to position 1 (ACCESS #) and the KEYPAD SELECT (PHONE NUMBER) switch to SECONDARY.
- c. Pull down and hold the PROGRAM switch while successively pressing the three keypad keys corresponding to the sequence of acknowledge tone numbers determined in Step 1.
- d. Verify that the proper digits have been entered by pressing the VIEW BUTTON on the keypad and observing the DISPLAY as described in the programmer's instructions.
- e. Turn the rotary switch to the OFF position and remove the PROM.
3. **Insert the PROM into the empty socket on the line card.** Make sure that the marked corner of the PROM is toward the left.
4. **Install the line card in the No. 685 Receiver.**
5. **Program those line card slots in the No. 685 Receiver for which 3-1 with checksum (3-1-C) is desired (if any).** A No. 690 PROM programmer can be used as follows:
 - a. Remove the option PROM from the No. 685 Receiver's Memory Board. Insert it into the NEW PROM socket of the No. 690 PROM Programmer, following standard procedure.
 - b. Set the rotary switch on the programmer to position 12 (labelled NOT USED).
 - c. Raise the slide switch(es) corresponding to the line card slot(s) for which 3-1-C is desired. If a switch is **not** raised, that slot's card will process a 5 digit input as a 4-1 format.
 - d. Momentarily pull back on the PROGRAM switch. The LEDs above the raised switches should now be lit.
 - e. Set the rotary switch to the OFF position and remove the PROM.
 - f. Replace the option PROM in the memory board and replace the memory board in the No. 685.
6. **Apply power to the No. 685 and dial the line card from a telephone.** Verify the sequence of tones heard.

LIMITED WARRANTY

Seller warrants its products to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for 18 months from the date stamp control on the product or for products not having an Ademco date stamp, for 12 months from date of original purchase unless the installation instructions or catalog sets forth a shorter period, in which case the shorter period shall apply. Seller's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any part which is proved not in compliance with Seller's specifications or proves defective in materials or workmanship under normal use and service. Seller shall have no obligation under this Limited Warranty if the product is altered or improperly repaired or serviced by anyone other than Ademco factory service. For warranty service, return product transportation prepaid, to Ademco Factory Service, 165 Eileen Way, Syosset, New York 11791.

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