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Linear ACCESS

LINMODEM Setup Requirements

The LINMODEM can be used easily with the AM/II, AE-1, or AE-2 Access Control Systems. It is primarily designed to be used with AM/II Version 5.0 or newer firmware, but it can also be used with firmware Version 4.2.

★ *NOTE: The AM/II Installation & Programming Instructions has detailed instructions for programming the AM/II.*

Installation includes the mechanical mounting, electrical connections, and changing the initialization string(s) sent to the LINMODEM by the AM/II.

AccessEntry Installation

Stick the loop/hook fasteners to the bottom of the LINMODEM. Place the LINMODEM in the space provided to the right of the AM/II. Make connections as indicated in Figure 1 for power, RS-232 and phone line.

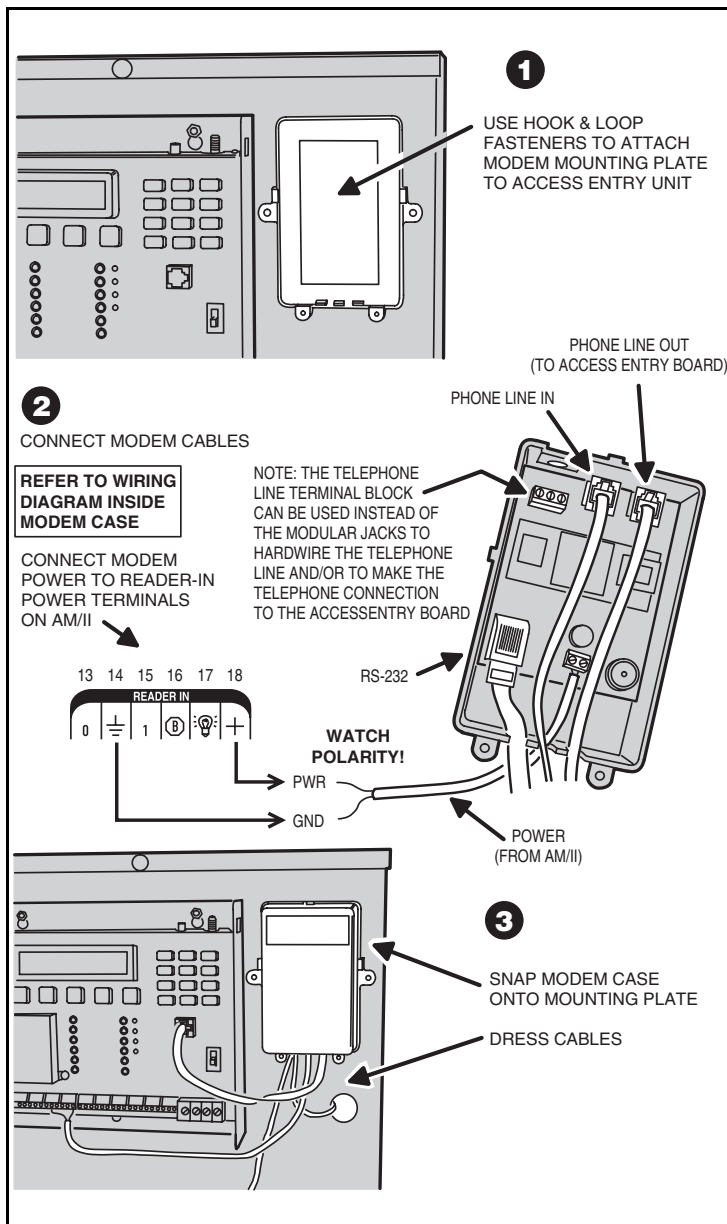


Figure 1. Modem Installation in AccessEntry Unit

Changing Modem Initialization Strings

After the network has been installed, verify the initialization strings before operating the equipment.

Using Linear's AccessBase software, select SETUP for NODE 1 and click the RS-232 tab.

String 1 should be: **ATH0E0&D0S37=9F8&Q0L3**

String 2 should be: **ATS0=0Q0N0&W0Z**

If the modem strings are different, set the modem strings to the values above. **BE SURE TO ENTER ZERO, NOT THE LETTER "O" IN THE INITIALIZATION STRINGS.**

Program the network, then reset the Node by clicking on NODE 1, then select REAL TIME CONTROL, then select RESET NODE. This loads the new modem string into the LINMODEM.

AM/II Version 4.2 Programming

The following programming activities are performed on the AM/II in programming Area 24. From the main menu, use the [↑], [↓] key, or enter "24" on the keypad to scroll to "RS-232 Port Setup Enter Program Area: 24" and press [OK]. When finished programming, press RESET to load the new modem strings into the LINMODEM.

✓ **WARNING: Be careful not to overwrite the "=" sign as there is no way to enter this from the AM/II keypad.**

STEP 1 Modem Initialization String 1

1 Use [↑] or [↓] to scroll to "Modem Init. String 1".

2 The factory set initialization string is:

ATQ1E0&D0S0=1%9600

Press [=] until the "Q" is blinking, then enter:

H0

Press [=] until the "%" sign is blinking, then enter:

F8&Q0

The new modem initialization string should read:

ATH0E0&D0S0=1F8&Q0

3 Press [OK].

Modem Initialization String 2 is correct from the factory.

It should read: **AT&W0Z**

LINMODEM INDICATORS

The four LEDs on the modem's circuit board indicate modem conditions and data flow. The small, round speaker in the modem monitors the phone line while the modem is establishing communications.

RX LED - Receive. Flashes when the modem is transferring received data or result codes to the AM/II over the RS-232 interface.

TX LED - Transmit. Flashes when the modem is receiving commands or data from the AM/II over the RS-232 interface.

DCD - Data Carrier Detect. Lights when an incoming carrier from another modem is detected on the phone line. The LINMODEM will hang up if the incoming carrier is lost.

DTR - Data Terminal Ready. Lights when the modem has been initialized by the command string from the AM/II.