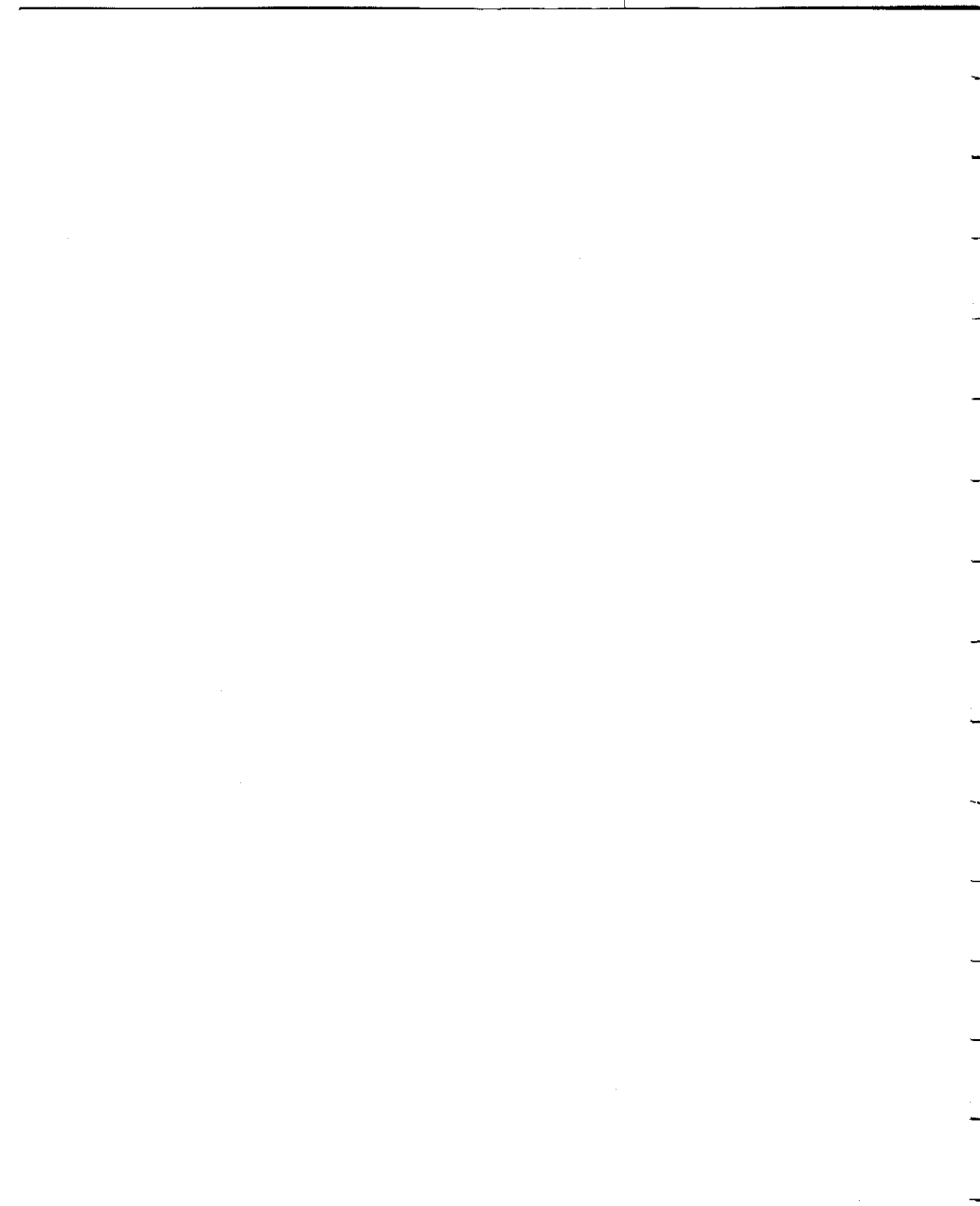


Downloading Software

User's Guide

ADEMCO

The Technology Leader



ALARM DEVICE MANUFACTURING COMPANY

A Division of Pittway Corporation
165 Eileen Way, Syosset, NY 11791

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INTRODUCTION

PITTSWAY SECURITY GROUP's V-LINK Downloading Software for the VISTA family of products has been redesigned to provide a quick and easy method of planning, designing and communicating to the Control Panels. Almost anything that can be done directly from the keypad can be done remotely, using V-LINK.

Downloading allows the operator to remotely access, program, and control the security system over normal telephone lines.

By using V-LINK, programming can be performed at the office prior to installation, or can be downloaded from a remote location or at the job site using a PC Laptop with an **ADEMCO 4100SM Serial Module** (where the Control Panel supports it). The Control Panel at the subscribers' premises must be connected to the existing telephone line to download from a remote location.

V-LINK is easy to learn and use, and all instructions are menu driven.

DOCUMENT CONVENTIONS

Before you start using V-LINK it is important to understand what the following symbols used in this manual mean:



IMPORTANT NOTE

THIS SYMBOL INDICATES A VERY IMPORTANT NOTE. PLEASE READ EACH ONE CAREFULLY



TECH TIP

This Symbol Indicates A Technical Tip That Will Help Make Certain Steps Or Functions Easier To Do.

SYSTEM REQUIREMENTS

V-LINK Downloading Software requires MS DOS 3.1 or higher, a hard disk with 12 MB of disk space available, a 3½ diskette drive (5¼ available on special order), and Com1 or Com2 must be available. It runs on the IBM PC 286, 386 or 486 compatible family of computers with at least 1MB of RAM memory and a printer. For proper communication the V-LINK downloader requires a HAYES SMARTMODEM 1200 External, 1200B Internal Modem, REV. 1.2 higher, or a HAYES OPTIMA24 PLUS FAX96 Modem, or an ADEMCO 4100SM module for direct wire download (where the Control Panel supports it).



IMPORTANT NOTE

YOU MUST HAVE 530K OF CONVENTIONAL MEMORY AVAILABLE TO RUN V-LINK.



TECH TIP

You Can Check Your PC For Available Memory By Typing "Chkdsk" For DOS Levels Below DOS Version 5.0. Look For The Line "Bytes Free", It Must Be Greater Than 530k. For DOS Version 5.0 And Up Type "Mem", Look For The Line "Largest Executable Program Size".







INSTALLING V-LINK



1. *IT IS IMPORTANT TO KEEP YOUR ORIGINAL DISKS IN A SAFE PLACE AFTER INSTALLATION IS COMPLETE.*
2. *IT IS STRONGLY RECOMMENDED TO BACKUP YOUR ACCOUNT FILES ON A REGULAR BASIS. THESE FILES ARE DENOTED WITH A .VST EXTENSION. IT IS EQUALLY IMPORTANT TO BACKUP THE FILES NAMED VRUN1.COM AND VRUN2.COM, AS THESE FILES ACT AS "KEYS" TO UNLOCK YOUR ACCOUNT FILES FOR EDITING AND VIEWING.*

FIRST TIME INSTALLATION

To install V-LINK for the first time, do the following:

1. Insert Installation disk #1 in your A: drive.
2. At the C:> prompt, type A: and press .
3. At the A:> prompt, type INSTALL. The system will display two choices. They are: **New Installation** and **Update**. Using the cursor keys, highlight **New Installation**. Press .
4. The system will then prompt for the disk drive on which V-LINK is to be installed. A list of drives is displayed. Using the cursor keys, highlight the desired drive and press . The system will then prompt for the sub-directory on which V-LINK is to be installed. The default is \VISTA. To accept this, press . If the location is different, enter the full path for installation. Press .
5. The installation program then checks for free disk space. If there is not enough space to complete the installation process, the system will display the details of its findings regarding available disk space verses required disk space. Upon pressing , the screen displays a message "THIS INSTALLATION MUST BE TEMPORARILY TERMINATED."
6. The installation program will then check to see whether or not a previous version of V-LINK has been installed in that directory. If it finds a previous version, it will display the message "AN EXISTING DOWNLOADER HAS BEEN DETECTED ON YOUR COMPUTER AND THEREFORE A NEW ONE MAY NOT BE REINSTALLED." "DO YOU WISH TO

PERFORM AN UPDATE OR TERMINATE THE INSTALLATION?" Using the cursor keys, select either **Update** or **Terminate** and press .







7. If the installation program does not find an existing version of V-LINK, it will install the software in the designated location. Follow the system prompts. When it has finished installing the program, it will display the message "INSTALLATION IS COMPLETE. YOU MAY NOW START V-LINK BY TYPING DL30 AT THE DOS PROMPT."



BE SURE TO STORE YOUR ORIGINAL DISKS IN A SAFE PLACE.








UPDATING EXISTING SOFTWARE

To update an existing V-LINK installation, do the following:

1. Insert Installation disk #1 in your A: drive.
2. At the C:> prompt, type A: and press .
3. At the A:> prompt, type INSTALL. The system will display two choices, **New Installation** and **Update**. Using the cursor keys, highlight **Update**. Press .
4. The system will then prompt for the disk drive on which V-LINK is installed. A list of drives is displayed. Using the cursor keys, highlight the desired drive and press . The system will then prompt for the sub-directory on which V-LINK is installed. The default is \VISTA. To accept this, press . If this is not correct, type in the full path where V-LINK is installed. Press .
5. The installation program then checks for free disk space. If there is not enough space to complete the update process, the system will display the details of its findings regarding available disk space verses required disk space. Upon pressing , the screen displays a message "THIS INSTALLATION MUST BE TEMPORARILY TERMINATED."

INSTALLING ON A NETWORK

To install V-LINK on a network, do the following:

1. Insert Installation disk #1 in your A: drive.
2. At the C:> prompt, type A: and press .
3. At the A:> prompt, type **INSTALL**. The system will display two choices, **New Installation** and **Update**. Using the cursor keys, highlight **New Installation**. Press .
4. The system will then prompt for the disk drive on which V-LINK is to be installed. A list of drives is displayed. Using the cursor keys, highlight the desired drive and press . The system will then prompt for the sub-directory on which V-LINK is to be installed. The default is \VISTA. To accept this, press . If the location is different, enter the full path for installation. Press .
5. The installation program then checks for free disk space. If there is not enough space to complete the installation process, the system will display the details of its findings regarding available disk space versus required disk space. Upon pressing , the screen displays a message "THIS INSTALLATION MUST BE TEMPORARILY TERMINATED."
6. The installation program will then check to see whether or not a previous version of V-LINK has been installed in that directory. If it finds a previous version, it will display the message "AN EXISTING DOWNLOADER HAS BEEN DETECTED ON YOUR COMPUTER AND THEREFORE A NEW ONE MAY NOT BE REINSTALLED." "DO YOU WISH TO PERFORM AN UPDATE OR TERMINATE THE INSTALLATION?" Using the cursor keys, select either **Update** or **Terminate** and press .
7. Make the file SC30.EXE a "read only" file if SHARE.EXE is loaded at the workstation. To do this, go to the drive and directory in which V-LINK is installed, and type **ATTRIB +R SC30.EXE**.

NETWORK ADVISORIES



IMPORTANT NOTE

1. **V-LINK DOES NOT HAVE FULL FILE LOCKING CAPABILITIES. IF INSTALLED ON A NETWORK, IT IS IMPERATIVE THAT ONLY ONE USER HAVE ACCESS TO A SPECIFIC ACCOUNT FILE AT A TIME. IF MORE THAN ONE USER ACCESSES THE SAME ACCOUNT FILE AT THE SAME TIME, ONLY THE MOST RECENTLY SAVED INFORMATION WILL BE KEPT (SEE THE DEFINITION OF ACCOUNT FILE IN THE TERMS AND DEFINITIONS SECTION).**

IF A MODEM IS USED FOR COMMUNICATIONS, THE MODEM MUST BE LOCATED ON THE INDIVIDUAL WORKSTATION. IT CANNOT BE LOCATED ON THE NETWORK FILE SERVER.

MODEM SETUP

The following modems are supported by V-LINK and must be used on either COM1 or COM2, which are the only COM ports supported by V-LINK at this time.

Hayes Smartmodem 1200 External Modem

Hayes Smartmodem 1200B Internal Modem--Software Rev. 1.2 or higher

Hayes Optima 24 Plus FAX 96 External Modem



IMPORTANT NOTE

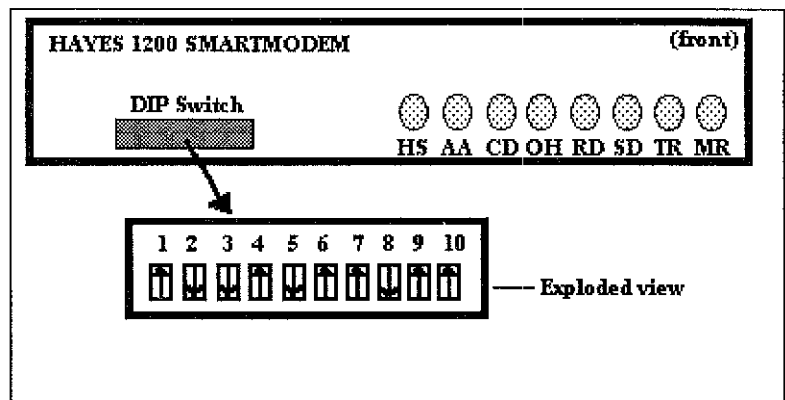
ONLY THE EXTERNAL HAYES OPTIMA 24 PLUS FAX96 MODEL MODEMS IS COMPATIBLE WITH V-LINK. THE INTERNAL HAYES OPTIMA 24 PLUS FAX96 MODEL MODEMS ARE NOT COMPATIBLE!

CONFIGURATION:

Each modem type must be configured differently for communications to be successful. The following defines the requirements for each model.

HAYES SMARTMODEM 1200 External Modem.

Configure the DIP switches behind the modem's front panel in the following manner:



HAYES SMARTMODEM 1200

HAYES SMARTMODEM 1200(B) Internal Modem

DIPSWITCHES

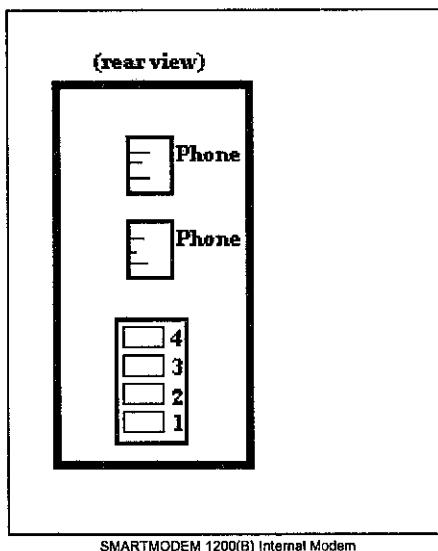
SW4 - OFF IF #4 DIPSWITCH IS NOT PRESENT, DTR JUMPER MUST BE ACROSS PINS A&B

SW3 - ON

SW2 - OFF

SW1 - ON = COMPORT #2

OFF= COMPORT #1



HAYES OPTIMA 24 PLUS FAX96 External Modem

Enter the following setup string in the AUX MODEM CMD field on your Setup System screen: **X&D2&C1&Q0.** (all caps and no spaces)

HARDWARE HOOKUP

External modem:

1. Install the external modem to the COM port you are selecting in the System Setup screen using a standard RS232 cable.
2. Connect the telephone line cord between the modem telephone jack labeled "To Line" and the telephone jack on the wall.
3. Plug the transformer in and turn the modem on.

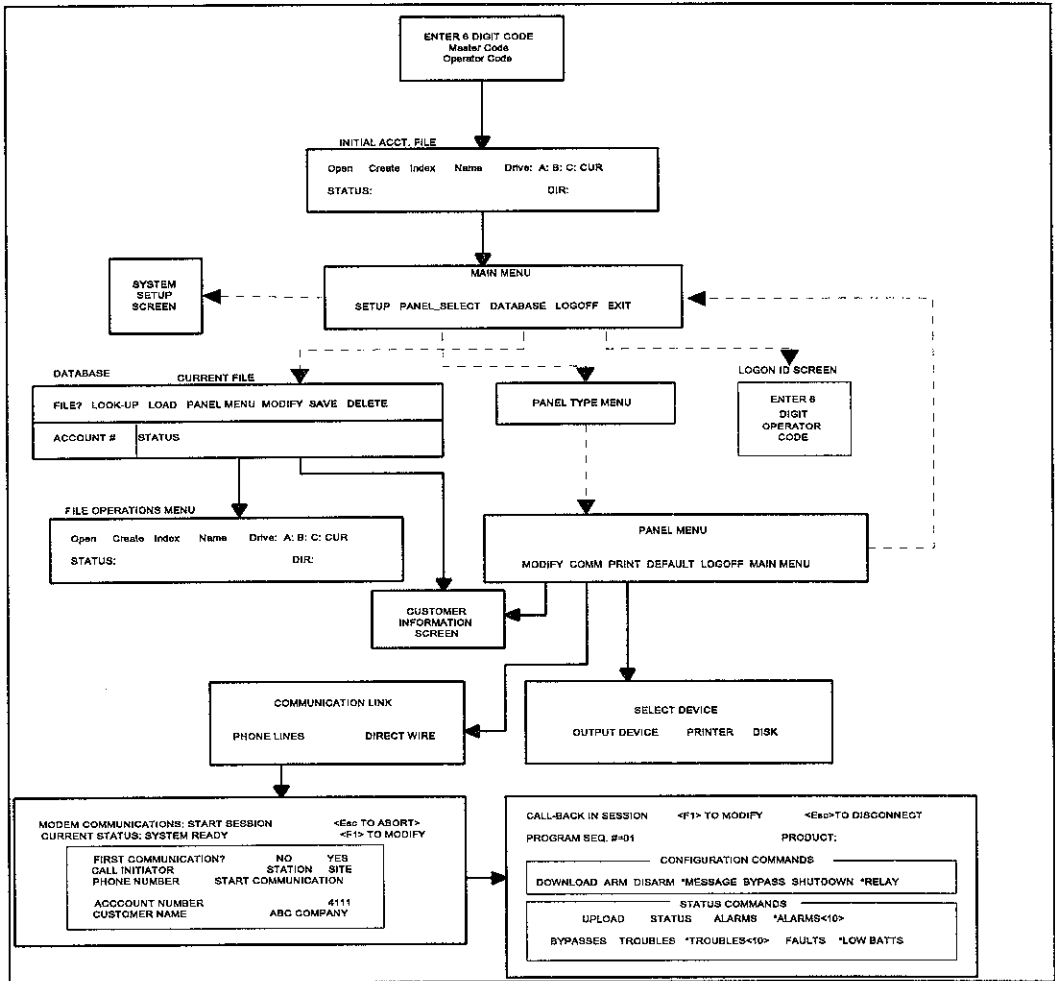
Internal Modem:

1. Install the internal modem into an available slot in your PC according to the instructions supplied with the modem.
2. Connect the telephone line cord between the modem telephone jack and the wall telephone jack.

NOTE: It is advisable to dedicate this telephone line to the PC modem to avoid interference from fax machines, other telephones, Etc., which may affect communications.

FLOWCHART OVERVIEW OF MENUS

Displayed is a brief operation overview of the V-LINK software. The dotted lines signify database operations to and from the Main Menu.



TERMS and DEFINITIONS

The following are terms you will need to know to use in this manual:


TERMS

DEFINITIONS

ACCOUNT FILE

A collection of subscriber (customer) accounts, created under a selected Account File. You may create as many files as necessary. We highly recommend only 1,000 subscriber accounts per account file.

CARRIAGE RETURN (CR)

Same as  or RETURN key.

CENTRAL STATION ID

An ID number that is set by the Master Operator or Owner of the V-LINK software to secure their Control Panels.

DEFAULT

Pre-determined factory settings. You may modify these defaults to suit your customer's needs.

FILE DIRECTORY

Is a named directory where subscriber accounts may be located. The field called **SUBS FILE DIR** is located in the System Setup screen. Enter the file directory name there.

FILE OPERATIONS MENU

Is intended for use by the V-LINK operator to create account files. A user can Open, Create or Index (view) files.

HIGHLIGHT

When a menu option is selected by the cursor, the option is encircled by a lighted box and the selection will flash.

HOT KEY

A letter that is highlighted in the name of an option in a menu (e.g. MAIN MENU). The E in MENU is highlighted as the **HOT KEY**. (e.g., Type **E** to select **MAIN MENU**).

INITIAL ACCOUNT FILE

Is intended for use by the V-LINK operator to Open, Create or Index (view) files.

LOG OFF

Select this option to leave V-LINK without exiting to DOS so another user can Log On with their Master or Operator code.

LOG ON

Enter the system with your six digit Master or Operator code.

MASTER CODE	Is a Log On code intended for use by the Master Operator or Owner of the V-LINK software. The Master Code has all levels of access and can be used to assign up to 15 temporary operators each having their own Log On codes. The default master code is 111111.
ON-LINE	When V-LINK connects to the Control Panel for communication.
OPERATOR CODE	Is a log on code assigned to other V-LINK operators by the Master Operator. Each operator can be assigned one of three levels of access.
PANEL TYPE MENU	A display of control panels by model numbers.
SUBSCRIBER ACCOUNT	Contains the programming information of a Control Panel Type for a given subscriber.

QUICK START



QUICK START is intended for users who are anxious to get V-LINK up and running quickly.

To take full advantage of the many fine features of V-LINK, we strongly suggest you take a few moments and read the **OPERATING V-LINK** section.

The following steps will get you quickly and easily into V-LINK.

STEP A

LOGGING ON

1. At the C:\ prompt (or whichever drive V-LINK is installed) type DL30. Press .
2. Enter your 6 DIGIT MASTER CODE. (default is 111111)
3. Enter your 6 DIGIT OPERATOR CODE. (default is 111111)
4. Press  three times.
5. MAIN MENU displays.




IMPORTANT NOTE

THE INITIAL FILE YOU HAVE OPENED IS A SAMPLE FILE, WHICH SHOULD NOT BE USED TO STORE YOUR SUBSCRIBER INFORMATION. IT IS, HOWEVER, VERY VALUABLE AND PACKED FULL OF GOODIES AND IS EXPLAINED IN THE SAMPLE.VST SECTION.

STEP B

CREATING A NEW ACCOUNT FILE

A new Account File is where the programming information for your Subscriber Accounts will be stored (e.g. NEWYORK, this is where all the Subscriber Accounts in New York are stored. Your filename can be a maximum of eight characters.)

1. From the Main Menu select **DATABASE**.
2. From the **DATABASE** menu, select **FILE?**
3. Select **CREATE**.
4. Type the new filename.
5. Press  to select DIR (drive).
6. Enter DIR if necessary.
7. Press **ESC** twice to exit to the **MAIN MENU**.

STEP C

CREATING A NEW SUBSCRIBER ACCOUNT

A new Subscriber Account holds the programming information for the Control Panel.

1. From the Main Menu, select **PANEL SELECT**.
2. Select Panel Type desired.
3. The Panel Menu displays.
4. Select **MODIFY**. The Customer Information screen displays.
5. Enter new Subscriber Information.
V-LINK organizes and saves Subscriber Accounts by the Primary Account number. The Primary Account number is the same used for Alarm Reporting to Central Station.
6. When done entering the Subscriber Account information, press **ESC** to save. A "pop-up" screen displays the following: "ACCOUNT INFORMATION HAS CHANGED" "DO YOU WISH TO SAVE THIS ACCOUNT <Y/N>."
7. Select **Y** to save and return to the **PANEL MENU**.

STEP D

GETTING ON-LINE WITH THE CONTROL PANEL



For this procedure to work you must use a new or newly defaulted Control Panel





CONTROL PANEL PREPARATION

1. Program a Ring Count of two in the Control Panel.
2. Program Callback number to the PC modem.
3. Connect to a phone line that is different than the PC modem's phone line.
4. Make sure The Control Panel is no longer in Program Mode.

NOTE: See the specific Control Panel Installation Instructions on how the above steps are listed.

COMMUNICATING WITH V-LINK

1. From the Panel Menu, select **COMM**. If prompted with Communication Link screen, select phone lines, press .
Wait for **MODEM SETUP**. If the configuration is incorrect, or the modem is inactive, V-LINK displays "MODEM INACTIVE, MANUALLY RESET PRESS RETURN TO RETRY." Press . If status persists press **ESC** to abort. If the problem persists, make sure the modem is turned on, check for proper configuration of modem setup, DIP Switch settings, **AUX MODEM CMD**, and the correct Comm. Port.

2. When "MODEM READY", select YES for FIRST COMMUNICATION, then press .
3. Select STATION for CALL INITIATOR. Press .
4. If the Customer's Phone number was not entered at the Customer Information screen, enter the number here. Press .
5. "START COMMUNICATION" will be highlighted and flashing. Press .
6. The PC modem will call the Control Panel and the Control Panel will respond. A series of SEND and RECEIVE arrows at the bottom of the screen will display. The modem will disconnect and the STATUS field will display "WAITING FOR CALLBACK.;" within 40 seconds the Control Panel will call back V-LINK. Once On-Line, V-LINK displays "SUBSCRIBER XXX IS ON-LINE."

CONGRATULATIONS!! YOU HAVE:

- ☒ SUCCESSFULLY STARTED V-LINK.
- ☒ SUCCESSFULLY LOGGED ON.
- ☒ SUCCESSFULLY CREATED A NEW ACCOUNT FILE.
- ☒ SUCCESSFULLY CREATED A NEW SUBSCRIBER ACCOUNT.
- ☒ SUCCESSFULLY GOT ON-LINE WITH THE CONTROL PANEL.
- ☒ COMMUNICATED WITH V-LINK.

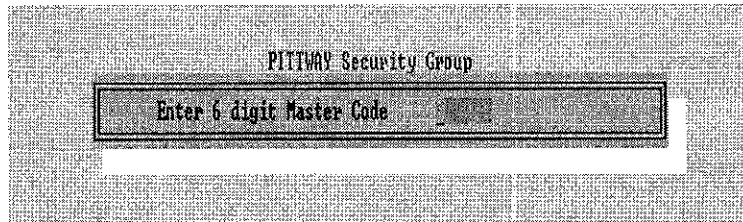
Since this is a first time installation, we recommend that you go to the SETUP section and change the Central Station ID number, Master Code, and modify the system setup to your requirements.

OPERATING V-LINK

STARTING V-LINK

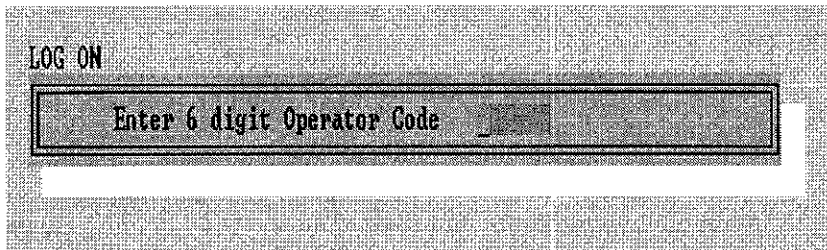
At the DOS prompt, type DL30. Press .

The **MASTER CODE** screen displays. Enter your 6 digit Master Code.
(Default = 111111)



MASTER CODE SCREEN

The **LOG ON** screen displays. Enter your 6 digit Operator Code.
(Default = 111111)



OPERATOR CODE SCREEN

The INITIAL ACCOUNT FILE screen displays. There are three options:

```

INITIAL ACCOUNT FILE
+-----+
| OPEN  CREATE  INDEX |
+-----+
| STATUS |
+-----+
  
```

INITIAL ACCOUNT FILE SCREEN

- OPEN** open an existing account file
 (i.e. a collection of subscriber accounts)
- CREATE** add a new account file
- INDEX** view an index of existing files by selecting a drive (a:, b:, c:, or cur:) and
 enter a directory if necessary.

See detailed descriptions below:

```

INITIAL ACCOUNT FILE
+-----+
| OPEN  CREATE  INDEX  Name:  Drive: A: B: C:  |
+-----+
| STATUS | DIR: |
+-----+
  
```






INITIAL ACCOUNT FILE SCREEN

To OPEN, CREATE or INDEX a file, do the following:


OPEN

1. Select Open by using your cursor key or pressing the HOT KEY **O**.
2. Press . NAME, DIR and DRIVE fields display.
3. At the NAME field, type the filename you wish to open. Press .
4. The CURSOR will move to the DRIVE field. Select a drive from which you are retrieving your file. If your file was created in a sub-directory, you must type the directory name in the DIR field. Press .
5. The STATUS field displays FILE OPENED. Press . The Main Menu displays.

CREATE

1. Select Create by using the cursor key or pressing the HOT KEY **C**. Press . NAME, DIR. and DRIVE fields display.
2. Type the new filename. Press  and the cursor will revert to the drive field. With your cursor key, select the drive on which the new file will reside. Press .
3. If you want to name a specific directory, make sure to type the directory name in the DIR field. Press .
4. The STATUS field displays FILE CREATED. Press . The Main Menu displays.

INDEX

1. Select INDEX by using the cursor key or pressing the HOT KEY **I**.
2. The DRIVE and DIR fields display. Enter the drive and directory to where the Account Files reside. Press  and a list of Account Files display.



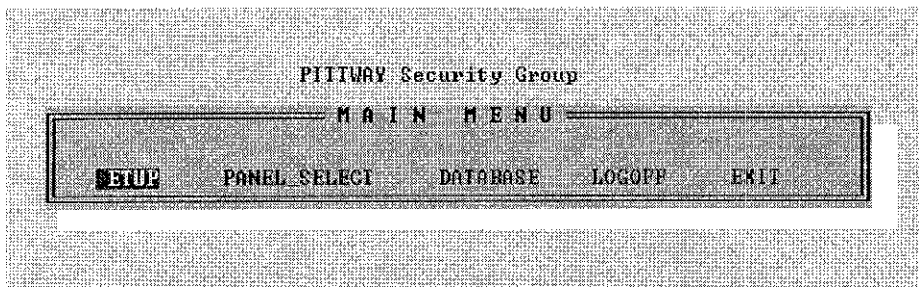
THE C: DRIVE REFERS TO YOUR LOCAL HARD DRIVE. CUR: IS THE DRIVE AND DIRECTORY ON WHICH THE SOFTWARE IS LOADED AND EITHER REFERS TO THE C: OR ANOTHER DRIVE SUCH AS A NETWORK DRIVE.

MAIN MENU

The **MAIN MENU** displays five system options. This section will describe each option in detail:

SETUP -	Contains System Setup information.
PANEL_SELECT -	Used to select Control Panel types.
DATABASE -	Used to create, modify, or load a new Subscriber Account.
LOGOFF -	Used to logoff V-LINK without exiting to DOS.
EXIT -	Used to exit to DOS.

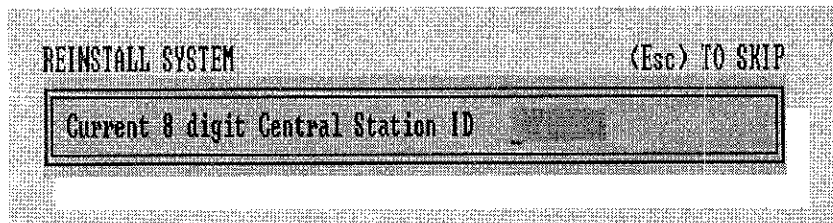
See detailed descriptions below:



MAIN MENU SCREEN

SETUP

This option can only be accessed by the Master Operator or Owner of the V-LINK. This screen contains the Central Station ID and System Setup parameters. From the Main Menu select **SETUP** and press **ENTER**. The **REINSTALL SYSTEM** screen displays. This screen allows you to change the Central Station ID, if desired. Press **ESC** if no change is desired.



REINSTALL SYSTEM SCREEN

TO CHANGE CENTRAL STATION ID:

1. Enter the Current 8 digit Central Station ID #.(System default = 11111111)
2. Enter your new 8 digit Central Station ID #.(System default = 11111111)
3. Re-enter new CS ID to confirm 8 digit Central Station ID #.(System default = 11111111)



IMPORTANT NOTE

THE CENTRAL STATION ID IS A UNIQUE EIGHT DIGIT CHARACTER ID ([0-9] [B-F] NO SPACES) CREATED BY THE MASTER OPERATOR OR OWNER OF V-LINK. THE CENTRAL STATION ID IS USED TO IDENTIFY AND SECURE YOUR CUSTOMERS' CONTROL PANELS TO V-LINK AND DISALLOWS UNAUTHORIZED INTERVENTION.

YOU MUST KEEP A RECORD OF THE NEW CENTRAL STATION ID IN A SAFE PLACE, AS IT CANNOT BE VIEWED AFTER IT HAS BEEN CHANGED.

After pressing ESC from the REINSTALL SYSTEM screen, the SYSTEM SETUP screen displays showing current settings. (On initial installation, default settings are displayed.)

SYSTEM SETUP				
SUBS FILE DRIVE A: B: C:	SUBS FILE NAME			
SUBS FILE DIR				
COM PORT	DIAL TYPE			
MODEM LEVEL	MODEM SPEAKER			
COMM LINK	AUX. MODEM CMD.			
OPER #	INIT	OPER CODE	FILE ACCESS	CON ACCESS
MASTER				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Press F1 for help. Press (F2) FOR COLOR SETUP (Esc) TO EXIT

SYSTEM SETUP SCREEN


In the fields depicted by the [*] asterisk, use the [+] [-] keys to change the current selection. This will appear when the field is highlighted.

To change the drive selection use the CURSOR keys.

Use the (CR) CARRIAGE RETURN or the key to move from field to field.

SUBS FILE DRIVE:

This is the drive where your Subscriber File will be created, stored or accessed. You may select the following:

- A: or B: drives and requires a diskette (5¼ or 3½).
- C: drive refers to your local hard drive. If C: is selected, you must use a **SUB FILE DIR**.
- CUR is the drive and directory from which the software is loaded and either refers to the C: or another drive such as a network drive (you cannot use the **SUB FILE DIR** when CUR is selected).
- To change the settings, use your left/right [←→] cursor keys, move to the desired option and press  to continue.

**TECH TIP**

It is recommended for ease of operations that you always use the cur selection.

SUBS FILE NAME:

Enter the Subscriber's account file name that you work with frequently. This will appear in the INIT. ACCT. FILE menu when you start V-LINK.

SUBS FILE DIR:

If the SUBS FILE drive A:, B: or C: have been selected, enter the full path where the Account Files are located (e.g. C:\VISTA\FILES). If the SUBS filename is located in a sub-directory, enter the sub-directory name.

COM PORT:

Select the serial port to which the modem is connected. Only COM1 and COM2 are supported by V-LINK.

DIAL TYPE:

Select Pulse or Touch Tone dialing.



IMPORTANT NOTE

IF TOUCH TONE IS SELECTED, MAKE SURE THE LINE YOU ARE USING HAS TOUCH TONE SERVICE.

MODEM LEVEL:

This option controls the volume of the modem speaker. The selections are:

LOW, MED, HIGH, EXT (only use EXT if you have an older modem which has an external volume control).

MODEM SPEAKER:

This option controls the modem speaker.

- | | |
|---------------------|---|
| OFF- | No sound from the speaker. |
| ON DIALING - | The sound is on during dialing until the link is made to the Control Panel. |
| ALWAYS ON - | Sound is always on. |

COMM LINK:

This option is used to specify whether V-LINK will be used for both modem over phone line & direct wire, or modem communication over telephone line only. **DIRECT WIRE/TELCO** will allow you to select either modem communication or a direct wire hookup directly to your computer's COM port using an ADEMCO 4100SM Module (where the Control Panel controls it).

AUX. MODEM CMD.:

This option is used for modems that do not have Dipswitches. It is used to enter a modem setup command string.



Aux Modem Cmd Must Not Be Used Except Where Specified Below.

MODEMS**SETUP STRING**

Optima 24 & Fax96

X&D2&C1&Q0

Hayes 1200B

&C1&D2

SETTING UP OPERATOR CODES**OPER #:**

This is a code used to Log On to V-LINK, it also controls user access to Subscribers' Accounts. Up to 16 operator codes (**MASTER, PLUS USERS 1 - 15**) can be entered. The **MASTER** Operator is the primary user of the system when programming system functions.

OPERATOR #**V-LINK**

Master

The primary user of V-LINK can start V-LINK from the Master Code screen. This is the only code that can access the System Setup screen.

Oper. 1

Operator 1 can also access V-LINK from the Master Code screen. However, Operator 1 cannot access the System Setup screen.

Oper. 2 - 15

Operators 2-15 can logon and off V-LINK providing that the Master Code or Operator code has already started V-LINK.

The Master Operator can assign up to 15 operator codes each with individual levels of access, and can eliminate or change these codes at any time.

INIT:

Initials (INIT) is a three character field, usually the initials of an operator assigned to a given operator code.

OPER CODE:

The Operator Code is used to log on to V-LINK and identifies the Operator during Database and Downloading functions. The Operator Code must contain six characters, which can consist of any combination of letters, numbers, punctuation marks, or any other printable characters.

FILE ACCESS:

This option defines the access level an operator has to database files. The **MASTER OPERATOR** assigns the following access levels to an operator:

FULL R/W: Create or change files.

PART R/W Read and modify all screens (*cannot read a subscriber's Control Panel access codes*).

RD ONLY Read only (*cannot read a subscriber's Control Panel access codes or modify a subscriber's account.*).

COMM ACCESS:

This option defines the access level an operator has to communication files. The **MASTER OPERATOR** assigns the following access levels to the operator:

FULL R/W Perform all communication functions.

PART R/W All communication functions except "SHUTDOWN."

RD ONLY Retrieve status information from the subscriber's Control Panel, arm the Control Panel and upload the program for viewing. This access level cannot disarm, bypass zones, download or shutdown the panel.

COLOR SETUP:

To change the color scheme, enter the color set up screen by pressing the F2 key. New screen color combinations are selected by pressing keys F1-F6. The Function Keys selections are as follows:

<u>KEYS</u>	<u>CHANGES</u>
F1	Screen background/User entry text
F2	Box Title/User Entry Backgrounds
F3	Box Background
F4	Box Outline
F5	Screen Text/Unselected Choices
F6	Hot Key Display Mode (Color or Mono)

COLOR SETUP SCREEN

CUSTOMER NAME STEEL'S HARDWARE CENTER

STREET 1234 MAIN STREET

CITY/STATE/ZIP INDIANAPOLIS, IN 46201

TEST INTERVAL (HOURS) DISABLED 12 24 168

KEY	CHANGES
F1	SCREEN BACKGROUND/USER ENTRY TEXT
F2	BOX TITLE/USER ENTRY BACKGROUNDS
F3	BOX BACKGROUND
F4	BOX OUTLINE
F5	SCREEN TEXT/UNSELECTED CHOICES
F6	HOT KEY DISPLAY MODE (COLOR OR MONO)

HIT <Esc> KEY WHEN COLOR CHOICES ARE COMPLETE

COLOR SETUP SCREEN

When all color combinations are selected, press the ESC key.


Select **YES** to save color selections to disk.

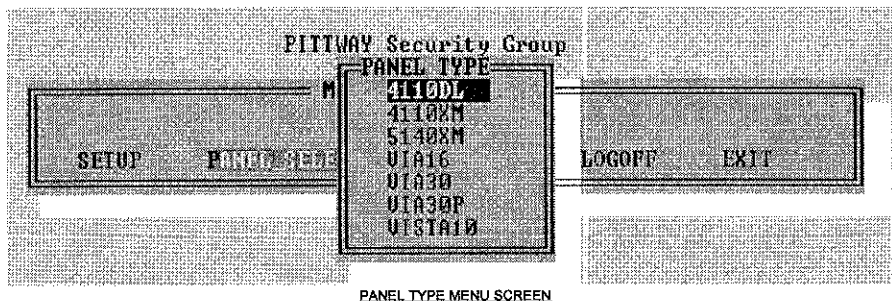
When all parameters are set, press **ESC** to exit the setup screen.

V-LINK will display "WAIT SYSTEM SETUP" (this may take several seconds) then return to the **MAIN MENU**.

PANEL_SELECT

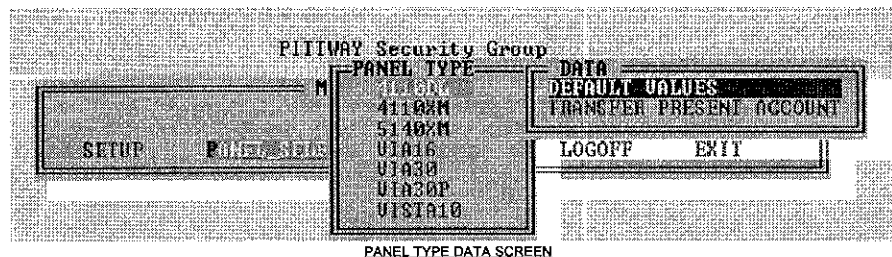
This option is used to select the Control Panel type that you are working with. From the **MAIN MENU**, select **PANEL_SELECT**.

A "pop-up screen" displays a list of Control Panel types installed on your system. (*The actual list may be smaller or larger than the picture shown*). With your cursor key, select the appropriate model number and press .



YOU MUST SELECT THE SAME CONTROL PANEL TYPE AS THE CONTROL PANEL AT THE SUBSCRIBER'S LOCATION. FAILURE TO DO SO WILL RESULT IN THE INABILITY TO GET ON-LINE WITH THE CONTROL PANEL AND MAY RESULT IN DATA LOSS.

When the Control Panel type is selected, the **DATA** "pop-up" screen displays. If this is a new account, select **DEFAULT VALUES** to load in V-LINK. Factory default values will be loaded.

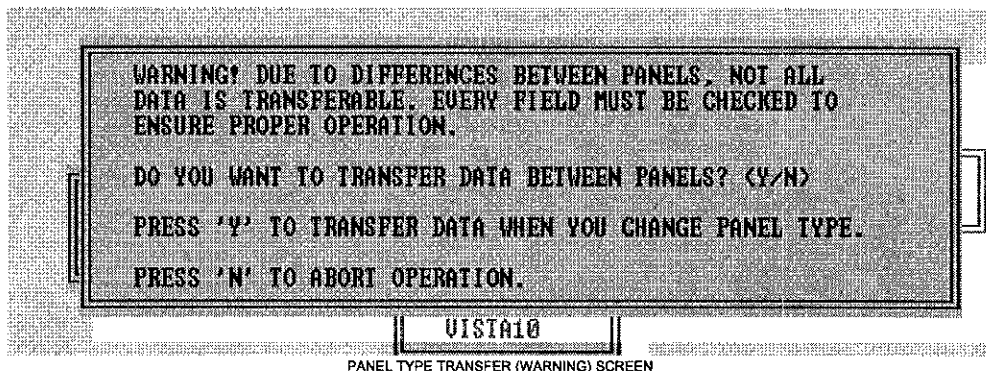


If you are transferring a subscriber's account to a different or newer Control Panel type, select **TRANSFER PRESENT ACCOUNT**. A warning screen displays. Select **YES** to transfer data between panels (see picture below).



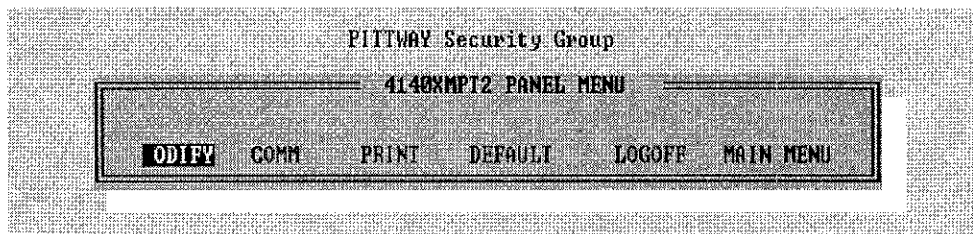
IMPORTANT NOTE

EVERY FIELD MUST BE CHECKED TO ENSURE PROPER DATA TRANSFER; NOT ALL DATA IS TRANSFERABLE.



PANEL TYPE TRANSFER (WARNING) SCREEN

The next screen display is the **PANEL MENU**. From this menu you may begin programming or communicating with your Control Panel. (Refer to the **PANEL MENU** section later in this manual for using this menu.)



PANEL MENU SCREEN

DATABASE

This function is used to create, view, maintain, delete, or update existing accounts.

Select **DATABASE** from the **MAIN MENU**.

DATABASE		CURRENT FILE: DONNA		(Esc) TO EXIT	
FILE?	LOOK-UP	LOAD	MODIFY	PANEL MENU	SAVE DELETE
ACCOUNT#		STATUS			

DATABASE MENU SCREEN

From this option the following menu selections are displayed:

CURRENT FILE:

The Current File displays the subscriber's account file you are currently working on.

FILE?:




Use this option to access the **FILE OPERATIONS MENU**.

FILE OPERATIONS			(Esc) TO EXIT		
OPEN	CREATE	INDEX	Name: []	Drive: A: B: C: []	
STATUS		DIR: []			





FILE OPERATIONS MENU

- | | |
|---------------|---|
| OPEN | open an existing account file
(i.e. a collection of subscriber accounts) |
| CREATE | add a new account file |
| INDEX | view an index of existing files by selecting a drive (a:, b:, c:, or cur:) and enter a directory if necessary. |


OPEN

1. Select **OPEN** by using your cursor key or pressing the **HOT KEY O**.
2. Press . **NAME**, **DIR** and **DRIVE** fields display.
3. At the **NAME** field, type the filename, you wish to open. Press .
4. The **CURSOR** will move to the **DRIVE** field. Select a drive from which you are retrieving your file. If your file was created in a sub-directory, you must type the directory name in the **DIR** field. Press .
5. The **STATUS** field displays **FILE OPENED**. Press **ESC** *twice* to return to the **MAIN MENU**.

CREATE

1. Select **CREATE** by using the cursor key or pressing the **HOT KEY C**. Press . **NAME**, **DIR**, and **DRIVE** fields display.
2. Type the new filename. Press  and the cursor will revert to the drive field. With your cursor key, select the drive on which the new file will reside. Press .
3. If you want to name a specific directory, make sure to type the directory name in the **DIR** field. Press .
4. The **STATUS** field displays **FILE CREATED**. Press **ESC** *twice* to return to the **MAIN MENU**.

INDEX

1. Select **INDEX** by using the cursor key or pressing the **HOT KEY I**.
2. The **DRIVE** and **DIR** fields display. Enter the drive and directory to where the Account Files reside. Press  and a list of Account Files display.



The **C:** Drive Refers To Your Local Hard Drive. **Cur:** Is The Drive On Which V-Link Is Loaded And Either Refers To The **C:** Or Another Drive Such As A Network Drive.

LOOK-UP:

There are three ways to LOOK-UP subscribers' accounts:

DATABASE		CURRENT FILE: ABC		<Esc> TO EXIT	
FILE?	LOOK-UP	LOAD	MODIFY	PANEL MENU	SAVE DELETE
ACCOUNT#	0000	STATUS Highlight account and hit ENTER to LOAD			

ACCT	NAME	STREET	CITY/STATE/ZIP
2222	ALARM CO.	ANYWHERE ST.	ANY CITY, ANY STATE, 111
7777	SECURITY CO.	ANYWHERE ST.	ANY CITY, ANY STATE, 111

DATABASE SCREEN WITH SUBSCRIBER ACCOUNTS



TO LOOK UP ALL SUBSCRIBER ACCOUNTS WITHIN AN ACCOUNT FILE

- Highlight LOOK-UP, press . A list of all Subscriber Accounts will display.
- Using the up/down [$\uparrow\downarrow$] cursor keys, highlight the desired account. Press . The STATUS field displays "OK TO LOAD? <Y>. NOT OK <N>". Press Y to load.
- To LOOK-UP all Subscriber Accounts within an Account File and an account number already exists in the ACCOUNT # field, press the down cursor [\downarrow] key, enter four 0's to see all.

2. TO LOOK-UP A SPECIFIC SUBSCRIBER ACCOUNT WITHIN AN ACCOUNT FILE


- To LOOK-UP a specific account, highlight LOOK-UP, press the down cursor [\downarrow] key and enter the Subscriber Account number in the ACCOUNT # field. Press twice.
- The STATUS field displays "OK TO LOAD? <Y> NOT OK <N>." Press <Y> to LOAD.

3. TO LOOK-UP A RANGE OF SUBSCRIBER ACCOUNTS (e.g. ACCOUNT NUMBER STARTING AT 2000)

- Highlight LOOK-UP, press the down [↓] cursor key.
- Enter the Subscriber Account number in the ACCOUNT # field. Press  **twice**.
- With the up/down [↑↓] cursor keys, highlight the desired Account. Press .
- The STATUS field displays, "OK TO LOAD? <Y> NOT OK <N>." Press <Y> to LOAD.

LOAD:

This option is used if you already know the Subscriber Account you want to work with.

1. Highlight LOAD with your cursor [←→] key, press the down cursor [↓] key **once** to the ACCOUNT # field.
2. Enter the Subscriber Account number you wish to load, press  **twice**.
3. The cursor positions itself on the LOAD field. The STATUS field displays, "OK TO LOAD? <Y>. NOT OK <N>". LOAD COMPLETED displays in the STATUS field when "Y" (yes) is selected.

MODIFY:

Select MODIFY to change data in the selected subscriber account.
If MODIFY is selected, the Customer Information Screen displays.


PANEL MENU:

When selected, the PANEL MENU displays.

SAVE:

The SAVE option is used to save changes to the subscriber file. This option can also be used when a subscriber's account is moved from one account file to another. (Refer to the FILE MANAGEMENT section).

DELETE:

To DELETE a subscriber's account from an account file, use LOOK-UP or LOAD to identify the subscriber's account. While the account number is displayed in the ACCOUNT # field, use your cursor [←→] key to highlight DELETE. Press  and the STATUS field displays "OK TO DELETE? <Y> or <N>". Press <Y> to DELETE.

LOGOFF

Select this option to logoff V-LINK without exiting to DOS.

The LOG ON screen displays, allowing another user to Log On.



IMPORTANT NOTE

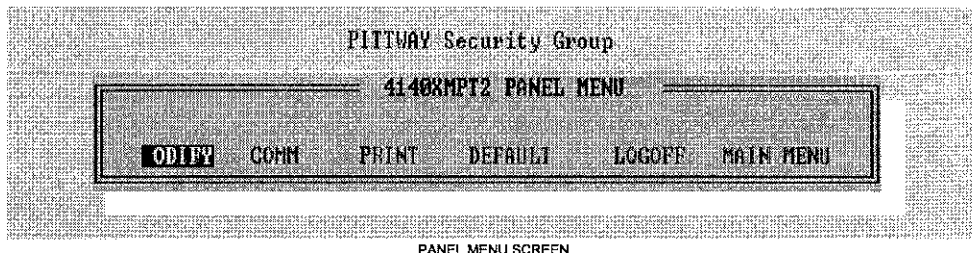
IT IS IMPORTANT TO LOGOFF AFTER A SESSION. THIS IS TO PREVENT UNAUTHORIZED ACCESS TO V-LINK.

EXIT

Select Y (yes) to go to DOS. Select N (no) to remain in the MAIN MENU.

PANEL MENU

The PANEL MENU displays six system options. See detailed descriptions below:



MODIFY:

When Modify is selected, the Customer Information screen displays. You can verify, add or make changes to a Subscriber's Account.

COMM:

All panel communications originate from this menu selection.

PRINT:

Output subscriber account information to a printer or a file on disk. (Files are saved in ASCII format. They can be easily read with a text editor, such as DOS Edit.com)

DEFAULT:

To set factory system defaults into the Subscriber Account.



***SELECTING DEFAULT WILL OVERRIDE ANY PROGRAMMING
INFORMATION PREVIOUSLY ENTERED.***

LOGOFF:

To logoff V-LINK without exiting to DOS. The LOG ON screen displays, allowing a second user to enter 6 DIGIT Operator Code to re-enter V-LINK.

MAIN MENU:

Select Y(yes) to return to the MAIN MENU.

MODIFY



TECH TIP

Various Programming Option Screens Will Be Displayed When Page Down is Pressed From the Screen shown below. These Screens Are Discussed In The MODIFY SCREENS FIELD DESCRIPTIONS AND PROCEDURES Section.


CUSTOMER INFORMATION	
CUSTOMER NAME	XXXXXXXXXXXXXXXXXXXX
STREET	XXXXXXXXXXXXXXXXXXXX
CITY/STATE/ZIP	XXXXXXXXXXXXXXXXXXXX
PHONE NUMBER	XXXXXXXXXXXX
CALL-BACK NUMBER	XXXXXXXXXXXX
AUXILIARY INFORMATION	XXXXXXXXXXXXXXXXXXXX
PRIMARY ACCT NUMBER	XXXX
SYSTEM	310
LAST SAVE	OPERATOR #
LAST DOWNLOAD	OPERATOR #

CUSTOMER INFORMATION SCREEN

This option is used to program the Control Panel. To begin programming the Control Panel options, select **MODIFY**.


The **CUSTOMER INFORMATION** screen displays the Subscriber Account information.

The **SYSTEM** field displays the Panel Type. If the wrong **PANEL TYPE** was selected, do the following:

- If a wrong panel type was selected, press **ESC**.
- Select **(X) EXIT**, **(Y)** to the **MAIN MENU**.
- Select **(P) PANEL_SELECT**.
- Select from the **PANEL TYPE** "pop-up" menu screen.
- Press . The Panel Menu displays.
- Select **(M) MODIFY**.

PHONE NUMBER:



The number at the Subscriber's premises which the PC is going to use to call the Control Panel. Digits 0-9 can be used. A [,] comma will cause a pause of two seconds in the dialing sequence. Parentheses, spaces, and dashes may be used to separate numbers.

 TECH TIP	TO DISABLE CALL WAITING:	
	Touch-Tone Line	Enter a *70, [,] then the Phone Number you wish to dial.
	Rotary Dial	Enter 1170, [,] and the Phone Number you wish to dial.

CALLBACK NUMBER:

This number is stored in the Control Panel for callbacks to the PC. This number is entered by the Installer at the Control Panel.

PRIMARY ACCT NUMBER:

This is the Subscriber Account number assigned by the Central Station for Alarm Reporting. It is also used for identification in V-LINK. Begin programming the Subscriber's Account, using the   keys to move from screen to screen.

LAST SAVE:

V-LINK displays the last date and time of subscriber account update.

LAST DOWNLOAD:

V-LINK displays the last date and time of subscriber account download.

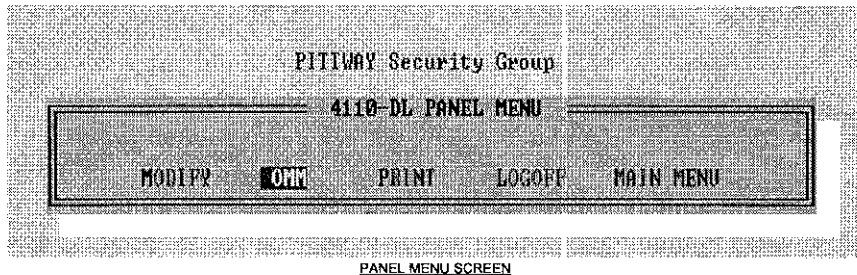
OPERATOR #:

V-LINK displays the last operator number who did an update from or download to a subscriber account.

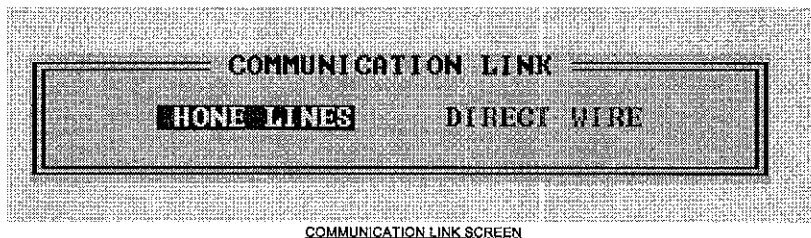
COMM (Communication Screen)

This option is used to remotely control or program the Control Panel at the Subscriber site. The **COMMUNICATION** mode is available either with the computer connected to an active modem and telephone system, or connected to an **ADEMCO 4100SM Serial Module** (where the Control Panel supports it).

From the **PANEL MENU**. Select **COMM**.



Select **PHONE LINES** or **DIRECT WIRE** depending on how you intend to communicate with your subscriber's Control Panel.



If "Telco" Was Selected In The System Setup Screen. The Communication Link Screen Will Not Display. Continue To The Next Screen.

If **PHONE LINES** is selected, the Modem Communications screen displays the following fields:

MODEM COMMUNICATIONS: START SESSION (Esc TO ABORT)
(F1) TO MODIFY

CURRENT STATUS **SYSTEM READY**

FIRST COMMUNICATION ?	<input checked="" type="checkbox"/> NO	YES
CALL INITIATOR	STATION	SITE
PHONE NUMBER	404085	
FIRST COMMUNICATION		
ACCOUNT NUMBER	0001	
CUSTOMER NAME	DIN COMPANY	


MODEM COMMUNICATIONS SCREEN

MODEM COMMUNICATIONS:

This field will always display Start Session.

CURRENT STATUS:

Displays modem status. V-LINK will attempt to setup the modem. If the modem is configured properly and is active, V-LINK displays "SYSTEM READY."

If the configuration is incorrect, or the modem is inactive, V-LINK displays "MODEM INACTIVE, MANUALLY RESET PRESS RETURN TO RETRY." Press . If status persists press ESC to abort.

If the problem persists, make sure the modem is turned on, check for proper configuration of modem setup, DIP Switch settings, AUX MODEM CMD, and the correct Comm. Port.

FIRST COMMUNICATION has been designed to permit you to quickly and easily get On-Line with the Control Panel. For First Communication to be successful, the Control Panel must have the Central Station ID number and Subscriber Account number set to factory default values.

The following will describe First Communication in detail:

In order to get On-Line with a Control Panel as a First Communication, do the following:

1. Select **YES** for First Communication.
2. Control Panels normally come with factory default values for Central Station ID number and Subscriber Account number set. If defaults have been changed you must re-enter them based on the Control Panel you are working with. See the following table for the correct entries.

<u>MODELS</u>	<u>IN PROGRAMMING MODE</u>
4110 - all models VIA - all models VISTA-10	ENTER *96
4120XM, 4140 all models 5140XM VISTA-40 VISTA-50	*32, ENTER 15 15 15 15 then *36, ENTER 15 15 15 15 15 15 15

3. The Control Panel must have a ring detect count and download callback number programmed. Some Control Panels have an option to disable the callback requirement. If callback is disabled at the Control Panel, you must also Enable **DOWNLOAD WITHOUT CALLBACK** in the **REMOTE ACCESS ENABLES** screen of the **MODIFY** option.
4. If callback is disabled, the panel will get On-Line with your system without a callback.

In order to get On-Line with a panel after it is programmed, whether it was programmed manually from the keypad or via the downloader, do the following:

1. Select **NO** for First Communication.
2. The Control Panel must have a ring detect count and download callback number programmed. Some panels have an option to disable the callback requirement. If callback is disabled at the Control Panel, you must also Enable **DOWNLOAD WITHOUT CALLBACK** in the **REMOTE ACCESS ENABLES** screen of the **MODIFY** option.


3. The subscriber's account number and the Download ID number that are in the Control Panel must match the subscriber account number and the Download ID number programmed in V-LINK.
4. If either of these fields do not match, the panel will not get On-Line with your system.

If none of the above methods work, see the **FIRST COMMUNICATION** tips section.

FIRST COMMUNICATION TIPS

If the Control Panel is pre-programmed with a Subscriber's Account number but the Central Station ID number is defaulted.

Do the following:

1. Make sure the Primary Account number in the Customer Information screen in V-LINK matches the Primary Account number in the Control Panel.
2. Say **NO** to **FIRST COMMUNICATION**.
3. V-LINK calls the Control Panel, and the Primary Account number matches the Subscriber's Account, V-LINK hangs up and displays "WAITING FOR CALLBACK."
4. Press **ESC**.
5. Select **COMM** from the **PANEL MENU**.
6. At First Communication, select **YES**.
7. At **CALL INITIATOR**, select **SITE**. Press  three times.
8. V-LINK displays "WAITING FOR CALLBACK."
9. The Control Panel calls back and V-LINK will get On-Line.



Steps 4-9 Must Be Done Within 40 Seconds Before The Control Panel Calls Back.

CALL INITIATOR:

Select **STATION** if the PC is calling the Control Panel. Select **SITE** if the control panel is calling the PC.

PHONE NUMBER:

This is the Phone Number that the PC uses to call the Control Panel. This number is entered in the Customer Information screen.

ACCOUNT NUMBER and CUSTOMER NAME:

These fields are read only and are entered in the Customer Information screen.

The screenshot displays the 'MODEM COMMUNICATIONS: START SESSION' screen. At the top right, it shows '(Esc TO ABORT)' and '<F1> TO MODIFY'. Below this, 'CURRENT STATUS' is followed by a box containing 'STATION'. A large rectangular box contains the following fields: 'FIRST COMMUNICATION ?' with 'NO' selected and 'YES' as an option; 'CALL INITIATOR' with 'STATION' and 'SITE' as options; 'PHONE NUMBER' with the value '4463085'; and a 'START COMMUNICATION' button. At the bottom of this box, 'ACCOUNT NUMBER' is '4463' and 'CUSTOMER NAME' is 'ABC COMPANY'. Below the entire form, the text 'MODEM COMMUNICATIONS SCREEN' is centered.

MODEM COMMUNICATIONS: START SESSION (Esc TO ABORT)
<F1> TO MODIFY

CURRENT STATUS STATION

FIRST COMMUNICATION ? NO YES

CALL INITIATOR STATION SITE

PHONE NUMBER 4463085

START COMMUNICATION

ACCOUNT NUMBER 4463

CUSTOMER NAME ABC COMPANY

MODEM COMMUNICATIONS SCREEN

INITIATING A CALL FROM STATION:


Once the communication process has begun, V-LINK prompts with "WAITING FOR CONNECTION." This means V-LINK is dialing the number for the control panel and is waiting for a connection.

The next message V-LINK provides after the control panel has picked up the phone is "SENDING CALL-BACK." This is a security process V-LINK and the control panel go through to prevent tampering by unauthorized individuals or organizations. The sequence is as follows:

Once the control panel answers the call, V-LINK puts out tones on the line to establish a modem connection. Once the modem link is established, V-LINK then sends a "CALLBACK" message (including the subscriber account number), which if received and verified properly, tells the control panel to call back the computer using the download callback number stored in the control panel to establish a continuous link.

After the message is successfully sent, V-LINK will display a message "WAITING HANG-UP" and then "WAITING (xxx) SECONDS FOR CALLBACK."

After approximately 30 to 40 seconds (depending on the time it takes to establish a phone connection in your area), V-LINK will display "VISTA CALLING BACK."

 TECH TIP	If The Panel Fails To Call Back Because Of A Programming Error In The Call Back Number, V-Link Will Wait 100 Seconds And Then Will Display A "Failed To Receive Call Back" Message.
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Once the connection is re-established, V-LINK will exchange modem handshakes and central station ID numbers. If they are correct, V-LINK will display "SUBSCRIBER XXXX IS ON LINE." If the handshake is not correct, then the control panel will hang up, and V-LINK will display the message "CENTRAL STATION ID MISMATCH."

Once the call back process is complete and the communication link is established, V-LINK displays the "COMMUNICATION" screen.


INITIATING A CALLBACK FROM STATIONS (WITH AN ANSWERING MACHINE):

V-LINK allows remote operation to be initiated to sites that have an answering machine. The "RINGS (00-15)" entry on the communication screen must be set to 15 and the same for the Control Panel. Additionally, the modem speaker must be set to ON DIALING or ALWAYS ON in the SETUP SYSTEM screen, so that you can hear the phone at the site ringing.

1. Initiate a call to the site from the PC. The PC displays "ANSWERING MACHINE MODE." Listen for the phone to ring at the site. Allow the phone to ring twice.
2. During the second ring, press the ESC key to disconnect the call. The PC will automatically hang up, wait 3 seconds, and re-dial the number. The message "HANGING UP AND CALLING AGAIN" displays.
3. The panel should answer the second call on the first ring.
4. The Control Panel will initiate a callback to your PC.

INITIATING A CALL FROM SITE:

Select SITE if the call is initiated from the control panel.

The V-LINK operator must press , at the "START COMMUNICATION" prompt. The installer Code + [#] + [1] is entered at the Control Panel

V-LINK will display a message "WAITING (XXX) SECONDS FOR CALLBACK."

After approximately 30 to 40 seconds (depending on the time it takes to establish a phone connection), V-LINK will prompt the user with "VISTA CALLING BACK."

Once the modem answers the call, it puts out tones on the line to establish a modem connection. Once the link is established "READ STATUS IN PROGRESS" displays.

Once the connection is established, V-LINK will exchange modem handshakes and central station ID numbers.

If correct, V-LINK displays "SUBSCRIBER (XXX) IS ON-LINE," and the COMMUNICATION COMMAND screen displays.

CALL-BACK IN SESSION		<F1> TO MODIFY		<Esc> TO DISCONNECT	
PROGRAM SEQ. # = 01		XXXXXXXXXXXXXXXXXXXX		PRODUCT-4110-DL REV.01	
CURRENT STATUS					
CONFIGURATION COMMANDS					
DOWNLOAD	ARM	DISARM	*MESSAGE	BYPASS	SHUTDOWN *RELAY
STATUS COMMANDS					
UPLOAD	STATUS	ALARMS	*ALARMS<10>		
BYPASSES	TROUBLES	*TROUBLES<10>	FAULTS	*LOW BATT	

COMMUNICATION COMMAND SCREEN

CONFIGURATION COMMANDS:

Download: Downloads programming information to the Control Panel.
Arm: Arms the panel from V-LINK.
Disarm: Disarms the panel from V-LINK.
Message: Message to the Control Panel.
Bypass: Bypasses zones from V-LINK.
Shutdown: Initiate shutdown of Download Command Enables.
***Relay:** Displays trigger options that can be tripped.

STATUS COMMANDS:

Upload: Uploads from Control Panel to V-LINK.
Status: Displays current system status.
Alarms: Displays current alarms in the Control Panel.
***Alarms<10>:** Displays a ten day history of Alarms.
Bypasses: Displays any zones bypassed in the Control Panel.
Troubles: Displays any zone troubles in the Control Panel.
***Troubles<10>:** Displays a ten day history of zone troubles.
Faults: Displays any zone currently at fault.
***Low Batts:** Displays RF Transmitter low battery.

**TECH TIP**

Depending On The Panel Type, Options Depicted With An [*] Asterisk Are Not Available.

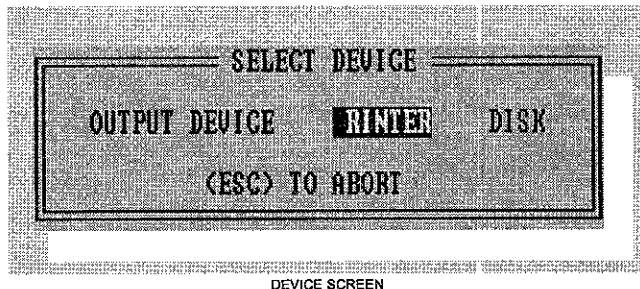
PRINT

The PRINT option is selected when you need a hard copy of a subscribers account.

Select PRINT from the PANEL MENU.


The **SELECT DEVICE** option menu displays.

The output device selections are **PRINTER** and **DISK**.




If **PRINTER** is selected, the **PRINT MODE** screen displays.

Press **ESC** to Abort, or **F1** to cancel printing.

To **PRINT** press .

If **DISK** is selected, select the **DRIVE**, enter the **DIRECTORY** and **FILE NAME**.

Press  to begin printing or saving to a disk. Do not add an extension to the file name, V-LINK automatically puts an extension **.PRN** to the filename.

DEFAULT

Select this option to load system defaults in V-LINK.

LOGOFF

Select this option to logoff V-LINK without exiting to DOS.

Select **LOGOFF** from the **PANEL MENU**.

The **LOG ON** screen displays, allowing another user to login if desired.




MAIN MENU

To leave the **PANEL MENU** and return to the **MAIN MENU**.




Select **MAIN MENU**, **EXIT** and **(Y)**Yes.

FILE MANAGEMENT

CREATING A NEW ACCOUNT FILE

1. From the **INITIAL ACCOUNT FILE** or **FILE OPERATIONS MENU** select **CREATE**.
2. Type new file name. Press  to select the drive.
3. Select **DRIVE**. Press .
4. Enter Directory name if necessary. Press .
5. **MAIN MENU** displays. (At the **FILE OPERATIONS** menu, press **ESC** to exit.)






OPENING AN EXISTING ACCOUNT FILE

1. From the **INITIAL ACCOUNT FILE** or **FILE OPERATIONS MENU** select **OPEN**.
2. Type file name. Press  to select the drive.
3. Select **DRIVE**. Press .
4. Enter Directory name if necessary. Press .
5. **MAIN MENU** displays.




CREATING A NEW SUBSCRIBER ACCOUNT

1. From the **MAIN MENU**, select **PANEL_SELECT**.
2. Select panel type desired.
3. The Panel Menu displays. Load default values.
4. Select **MODIFY**. The Customer Information screen displays.
5. Enter new subscriber information. Press **ESC** to save.
6. A "pop-up" screen displays the following "ACCOUNT INFORMATION HAS CHANGED."
"DO YOU WISH TO SAVE THIS ACCOUNT <Y/N>."
7. Select <Y> to save and return to the **PANEL MENU**.


OPENING AN EXISTING SUBSCRIBER ACCOUNT

1. From the **MAIN MENU**, select **DATABASE**.
 2. **DATABASE** menu displays. Select **FILE?**.
 3. **FILE OPERATIONS** menu displays. Select **OPEN**.
 4. In the **NAME** field, type **ACCOUNT FILE** name where the Subscriber Account exists. Press  to select the drive.
 5. Select the **DRIVE**. Press . Type in **DIRECTORY** if necessary.
 6. Press . Press **ESC**.
 7. **DATABASE** Menu displays. Select **LOOK-UP**. Press .
 8. With the up/down [**↑↓**] cursor keys, highlight the Subscriber Account. Press .
- Select <Y> to **LOAD** your selection. Select **MODIFY** or **PANEL MENU**.

DISPLAYING AN INDEX OF ACCOUNT FILES

1. From the **INITIAL ACCOUNT FILE** or **FILE OPERATIONS MENU** select **INDEX**.
2. Press  to select the drive.
3. Select **DRIVE**. Press .
4. Enter Directory name if necessary. Press .
5. An **INDEX** of existing **ACCOUNT FILES** display.


MOVING A SUBSCRIBER ACCOUNT FROM ONE ACCOUNT FILE TO ANOTHER

1. Select **DATABASE** from the **MAIN MENU**.
2. Select **FILE?**, press . At the **FILE OPERATIONS** menu, **OPEN** the file where the account exists. Press **ESC** to return to **DATABASE** menu.
3. **LOOK-UP** account, highlight and **LOAD** into memory.
4. **OPEN** destination Account File by repeating step 2.
5. Select **SAVE**.
6. Return to original account file to **DELETE** if desired.

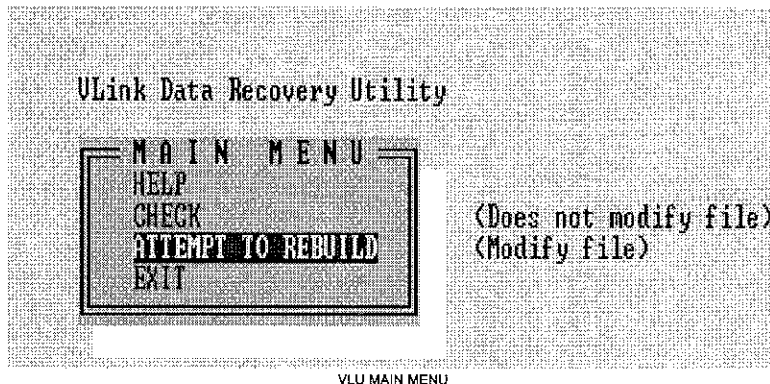
REPAIRING AN ACCOUNT FILE



USE THIS OPTION IF YOU SUSPECT A DAMAGED ACCOUNT FILE (I.E. IF SUBSCRIBERS' ACCOUNTS ARE MISSING OR IF YOU RECEIVED AN ERROR CODE WHEN ATTEMPTING TO LOAD A SUBSCRIBER ACCOUNT).

1. Exit V-LINK to DOS.
2. From the C:\ prompt change to the directory where V-LINK is located. (e.g. C:\CD VISTA).
3. At the located directory type VLU press . The V-LINK DATA RECOVERY UTILITY screen displays. Enter your 6 DIGIT MASTER or OPERATOR 1 code.
4. The V-LINK DATA RECOVERY UTILITY Main Menu displays.

The VLU Main Menu options are as follows:

**HELP**

The HELP screen displays.

CHECK

Displays basic VST file header information.

NOTE: .VST is an extension added by V-LINK to identify Account files.

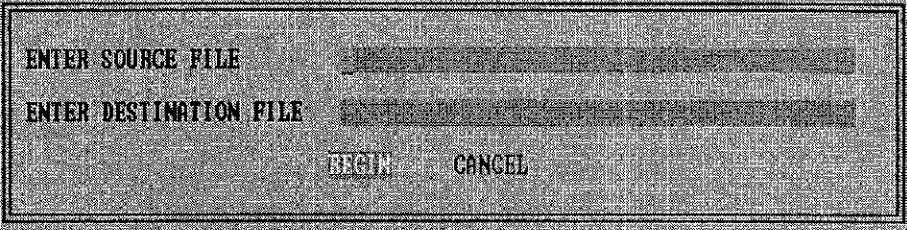
ATTEMPT TO REBUILD

This will access a damaged VST file and attempt to copy account information to a new file. Enter the **SOURCE FILENAME** (damaged filename) and enter the **DESTINATION FILENAME** (new filename). Select **BEGIN** to begin repairing.

NOTE: The Destination Filename must be different than the Source Filename.

EXIT

Exit to DOS.



ENTER SOURCE FILE

ENTER DESTINATION FILE

BEGIN CANCEL

VLU REPAIR SCREEN

5. Restart V-LINK, open the Account File to verify that it was repaired.



THE V-LINK DATA RECOVERY UTILITY (VLU) WILL REPAIR MOST DAMAGED DATABASE ACCOUNT FILES. HOWEVER, THERE ARE RARE CASES WHEN ACCOUNT FILES CAN NOT BE REPAIRED. THEREFORE, IT IS ESSENTIAL TO REGULARLY BACK UP ALL ACCOUNT FILES (FILES WITH A .VST EXTENSION), AND ALSO THE VRUN1.COM AND VRUN2.COM FILES.

MODIFY SCREEN FIELD DESCRIPTIONS AND PROCEDURES

This section includes detailed descriptions and procedures of fields displayed in the Modify screen for all Control Panels available to V-LINK. (Since these screen descriptions are inclusive of all Control Panels, some may not appear on the Modify screens of the Control Panel that is being programmed.)

This section is organized by screen title in alphabetical order.



TECH TIP

To Use This Section: If You Are On A Modify Screen Called "Sounder Options", And Need To Know What "Alarm Sounder Duration" Is, Look Up "Sounder Options" In This Section, Then Look In The Left Hand Column For "Alarm Sounder Duration". To The Right Of "Alarm Sounder Duration" You Will Find A Detailed Description Of The Option.

ACCESS CODES

4/6-digit High Security Code	Allows choice of either 4-digit or 6-digit security code to be used for arming/disarming and other system functions. If 6-digit is selected, the user number is entered before the 4-digit code.
Console Programming Mode	This option allows access to program mode via the console (same as exiting *99). If not selected, you will be prevented from re-entering or entering the program mode from the keypad (same as exiting *98). To re-enter you must power the system down then power the system up and press the * and # at the same (within 60 seconds) time.
Installer Code	This is a four digit code used by the installer and is the only code with the authority to enter the program mode.
Local Program Lockout	This option prevents re-entry into the program mode through the keypad.
Master Security Code	This is a 4-digit code intended for use by the primary user of the alarm system.
Open/Close by User	Select YES if this user's code is to send Opening/Closing reports to the Central Station (if YES, make sure report codes are programmed for both Openings and Closings). If not desired, select NO.

ACCESS CODES FOR PARTITIONS


Control panels which offer users different levels of authority and/or multiple access among partitions are programmed in the following way:



Make Sure The Number Of Partitions And The Maximum Number Of Users Per Partition Is Programmed In Your Partition Definition Screen.

At the **User Access Codes** screen,

TO ADD A USER:

1. Go to the partition that will be that user's main partition (select [F3] to go to the next partition and [F4] to go to the previous partition). Use the arrow keys, go to the next available space for a user. Press [F1] to edit the user.
2. Type in the four-digit security code (and initials of the user, if desired). Press . Complete the following information for each partition in which the user is to be enabled:

AUTHORITY LEVEL:

Enter the authority level of the user (1=Master, 2=Manager, 3=Operator Level 1, 4=Operator Level 2, 5=Operator Level 3, 6=Duell). For a further explanation of how these levels operate, see your panel's Installation Instructions.

OPENING/CLOSING:

Select **YES** if this user's code is to send Opening/Closing reports to the central station (if **YES**, make sure report codes are programmed for both Openings and Closings). If not desired, select **NO**.

GLOBAL ARM:

Select **YES** if this user's code is to have the ability to arm all partitions in which Global Arming was selected from any partition it has access to in a single command. Select **NO** if the system should arm only the partition the user is arming at that time.

NOTE: If Global Arming is selected, whenever the user arms, the question "ARM ALL?" will be displayed. If **YES** is selected, all partitions selected for Global Arming will be armed (provided all partitions are **READY** for arming). If **NO** is selected, the system will display which partitions it should arm, one at a time.

3. When you have entered all information pertaining to that user, press the **ESC** key. You will then be prompted for the Access Group this user belongs to. Enter data only if this user's access is to be limited to working during a given time frame.

NOTE: The number you enter for the Access Group coincides with the number of the Access Schedule you create (for example, anyone belonging to Access Group 1 will follow Access Schedule 1.) For further information on Access Schedules, see the **SCHEDULING** section. If the user does not belong to an access group, press **ESC**.

TO EDIT OR DELETE A USER:

A user code must be edited or deleted from its Master (Primary) partition. Although all codes that work in Partition 1 will be displayed in Partition 1, a user may have been entered through another partition, indicating that user's master partition.

1. Move to the user code you want to edit or delete.
2. At the top of the screen where the partitions are listed, displayed an asterisk (*) next to one of the partitions. That indicates the master partition for that user code. Press the [F3] (Next Partition) and the [F4] (Previous Partition) keys to get to the desired partition.

Press [F1] to Edit The User code or [F5] to Delete The User. Press the **ESC** key when finished.



ALARM REPORT CODES

Enter the Alarm Report Codes for each zone.

ALPHA SCREEN EDIT/ALPHA DESCRIPTORS




Alpha Descriptors are used to display English language descriptors for each zone at the control panel keypad. This makes it easier to identify zones. If alpha descriptors are not used, only the zone number will be displayed, with no indication of what protection area the number actually represents.

To program Alpha Descriptors, do the following:

1. From the first Zone Definitions screen, press [F1]/[F2]. (Whichever applies to the control panel) The **Custom Entries** screen displays.
2. If the system's vocabulary does not contain words that you need for your customer's descriptors (such as proper nouns, etc.), you may add custom words on this screen. Once all customer words are entered, press the  key. The **Alpha Descriptors** screen displays.
3. Zone 1 is displayed. If not using zone 1, use the [+] key to advance to the zone desired. Using your cursor keys, scroll through the words until the first word of the desired descriptor is highlighted (you may also type the first letter of the word desired and the system will automatically scroll to words beginning with that letter). When the desired word is highlighted, press .



NOTE: If Custom Words Were Entered, They Will Appear In The Vocabulary Of Words On The Alpha Descriptors Screen In Alphabetical Order

4. Now scroll to the second word of this zone's descriptor. Press .
5. If a third word is required, repeat the above procedure. Press  to have the zone descriptor move from New Version to Present Version. If the zone descriptor field is full, this may happen automatically.
6. Once the descriptor appears in the Present Version field, use the [+] key to advance to the next zone (the [+/-] keys are used to change zone numbers).
7. Continue entering your zone descriptors until all zones have been entered. Press the  key to continue your system programming.

COMMUNICATIONS/COMMUNICATIONS OPTIONS

15 Sec Delay Burg Report	Provides 15-second delay on burglary alarm communication which allows time for subscriber to avoid false burglary alarm transmission. If system is disarmed before 15 seconds, no report will be sent.
24 Hour Test Report	If selected, a test report is sent to the Central Station every 24 hours. The first test report is sent 12 hours after exiting program mode.
Back-Up Dialer Method	Selects Touch-Tone or Rotary dialing for the backup dialer.
Bell 2 & Aux. Relay Time-out	Select the alarm sounder duration for Bell2 and the Aux Relay.
Burg. Alarm Comm. Delay	Provides a 15/16 -second delay on burglary alarm communication. Allows time for subscriber to avoid false burglary alarm transmission. If system is disarmed before 15/16 seconds, no report will be sent.
C.S. on WATS Line	Selects Touch-Tone or rotary dialing for Central Station systems using WATS lines.
Checksum Verification	<p>This option allows either or both primary/secondary formats to send a verification digit to validate the message at the receiver without having to send two message rounds. Selection is valid for 3+1, 4+2, and ADEMCO High Speed reports. It is automatic in Contact ID and ADEMCO Express.</p> <p>NOTE: The Central Station receiver must be able to accept checksum, please check with Central Station before choosing this option. Same as Checksum (Transmit Format).</p>
Dial Tone Detect	Determines whether the Control Panel will wait for a true dial tone before dialing, or if it will simply wait for a short period before dialing. The latter may be desirable in high-noise environment Telco networks where noise can be confused with dial tone, resulting in premature dialing.

Dial Tone Wait	This field is used to select the delay time if the "Dial Tone Detect" field has been set to NO.
Dialer Reports For Panics	Select whether or not each console panic will send a report for the selected partition.
Dialing Method	Selects Touch-Tone or Rotary dialing.
Dual Reporting	Selects whether or not all reports will be sent to the primary and secondary numbers. If Dual Reporting is desired and ADEMCO High Speed format is to be used at all, it must be selected as both the primary and secondary transmission formats.
Enable J7 Triggers By Partition	For partitioned systems, this option allows the voltage triggers to be enabled for each partition.
Ground Start O/P	This feature determines the use of Trigger No. 1 on J7 output. Select the appropriate option with your (+/-) key. Options include, Open/Close, Beeps or Enable.
Intelligent Test Reporting	If selected, and a communication is sent between two test reports, the Control Panel will skip the next test report.
Main Dialer	Selects Touch-Tone or Rotary dialing for main dialer.
Main dialing method	Selects Touch-Tone or Rotary for main dialer.
Max. Dialer Attempts	Used to select the number of attempts the dialer will make to the Central Station before quitting.
No. Reports per Armed Period	Limits the number of reports that can be sent during a given armed period.
PABX Access Number	This field is used to enter up to four numbers 0-9 and B-F (11-15). If not required, enter nothing and proceed to next address; otherwise, enter prefix needed to obtain an outside Telco line. This field may be used alternatively to enter a prefix that can suppress the Telco's call waiting feature from interfering with outgoing transmissions. This prefix is only useful if the Telco option to suppress call waiting has been obtained by your customer. The prefix to be used is 1170 if rotary dialing is being used or *70 if Touch-Tone dialing is being used. Only enter digits required. Do not fill unused spaces.

Primary Format	This field selects the reporting format for the primary number . Enter the appropriate number for the primary format for one of the following: Low Speed, Contact ID, ADEMCO High Speed, ADEMCO Express.
Primary Phone Number	<p>This option is used to enter the primary phone number, up to 12 digits, 0-9. This is the phone number the control will use to transmit alarm and status messages to the central station. Do not fill unused spaces.</p> <p>NOTE: Back-up reporting is automatic only if a secondary phone number is entered (8 calls are made to the secondary phone number if no acknowledgment is received after 8 attempts to the primary number).</p>
Primary Transmit Format	Same as Primary Format.
Randomize AC Loss Report	Select this option to randomize AC loss reporting between 10-40 min. after an actual AC loss. Select Disable for normal AC loss reporting (about 2 minutes after actual AC loss). Selecting this option helps prevent an overload of AC loss messages at the central station during a community blackout.
Receiver Type (RF Expander)	Select the type of Receiver being used, 4280, 4281, 5881.
Restore (Restoral) Report Timing	Permits selection of the following: <u>Instant</u> for restore report as zone restores; <u>Time-out</u> for reporting after bell time-out if zone restored; <u>Disarm</u> for restore report when system is subsequently disarmed.
Ring Detection Count (Rings)	Only applicable if Central Station-initiated downloading or a voice module will be used. Enter 01–14 for ring counts of 1 to 14; enter 15 to select answering machine mode to allow the system to receive calls even when a telephone answering machine is connected to the same phone line. In the answering machine mode, the download caller should let the phone ring once, then hang up, then call again within 30 seconds. The system, upon hearing one ring followed by nothing, will not answer that call, but will ready itself to pick up on the first ring of the next incoming call that is received within 30 seconds (the downloader calling again).

Secondary Format	This field selects the reporting format for the secondary number . Enter the appropriate number for the secondary format for one of the following: Low Speed, Contact ID, ADEMCO High Speed, ADEMCO Express.
Secondary Phone Number	This field is used to enter the secondary phone number, up to 12 digits, 0-9. The secondary phone is the number that the control will use if communication on the primary number is unsuccessful. Do not fill unused spaces. If this field is programmed, some controls require that a secondary subscriber account number <i>must</i> also be programmed (can be the same as the primary account number).
Split/Dual Reporting	This field allows reports to be sent to both primary and secondary phone numbers in various configurations. Select Yes <i>(or use your (+/-) key to select an option depending on the Panel Type selected)</i> .
Standard/Expanded Report Primary	Select either standard or expanded reporting for the primary phone number.
Swinger Suppression	If selected, this option limits the number of messages (Alarms or Troubles) sent for a specific zone or channel in an armed period . If 00 is selected, all Alarm or Trouble codes are reported.
Test Initiation Time	Used to select the time and day the first test report will be sent.
Test Report Interval (Hours)	Used to specify the time interval (001–199 hours) between test reports. Enter 000 if no test reporting is desired. If time interval is selected, a test code must be entered in the System Status (Non-Alarm) Report Codes fields (in the "Test" location).

**Touch-Tone
Or Rotary Dial
(Dialing Method)**

Select Touch-Tone if Touch-Tone service is being used. Select ROTARY if rotary phone service is being used.

IMPORTANT: If selecting Touch-Tone, make sure the subscriber has requested and is paying for Touch-Tone service. Note that whether or not Touch-Tone dialing for call placement is permitted, communication by the use of DTMF signaling (ADEMCO High Speed) will still take place.


**Touch-Tone W/Rotary Backup
(Rotary after 1 Attempt)**


The system dials by the method selected in the Touch-Tone/Rotary dial option. The Rotary backup option allows the control to dial using rotary service if not successful on dialing using Touch-Tone on first attempt. Select No if this option is not to be used.

CUSTOMER INFORMATION

Account #	Subscriber Account # is assigned to customers by Central Station for reporting purposes.(Same as Primary Account number)
Aux. Information	This is a "read only" field for auxiliary information. It is not downloaded to the Control Panel.
Callback No.	This is the telephone number that the Control Panel will use to call the modem at which V-LINK is installed.
City, State, Zip	Customer's City, State and Zip.
Customer Name	Customer's name.
Phone Number	Customer's phone number.
Primary Account No.	Same as Account number.
Street	Customer's address.

DAYLIGHT SAVINGS TIME:

Daylight Savings Start Use the [+/-] keys to change the month and week of the month in which Daylight Savings Time will start. Press .




Daylight Savings Stop Use the [+/-] keys to change the month and week of the month in which Daylight Savings Time will stop. Press the  key.


END USER OUTPUT PROGRAMMING

End User Output Programming is an option available to an end user who wants to activate a relay based on a "timer" either temporarily or permanently. This is often accomplished by the end user at the keypad through an end-user menu-driven programming mode (not the installer's mode). This mode does not use previously defined Time Windows, but rather an On-Time and an Off-Time entered "on the fly" for relay activation.

To program these options through **V-LINK**, do the following:

At the **End User Output Programming** screen,

1. Enter the Output Device (Relay) number for Timer #1. Press .
2. Enter the On-Time for the relay. Press .
3. Enter the Off-Time for the relay. Press .
4. Using the **[+/-]** keys, check or uncheck the days the timer is to activate. This schedule will be in force for one week from the day it is entered. If the setup is to be permanent, select YES in the PERM box.

When all timers have been entered, press the  key to continue your Scheduling options. Press **ESC** to return to the **Customer Information** screen.




EVENT LOGGING OPTIONS


Event Log Types	Select the types of events the system will keep track of in its event log. When full, the oldest events will be discarded as new events occur. Event Log Types include: Alarms, Troubles, Bypasses, Openings/Closings, and System conditions.
Printer Baud Rate	Select 1200 if printer is configured for 1200 baud (preferred). Select 300 if printer is configured for 300 baud.
Printer On Line	Select if Serial Printer is connected to the Control Panel, and will print all events as they occur.
Time Format	Selects the Event Log time stamp format. This can be the standard 12-hr format, or the 24-hr format.

HOLIDAY SCHEDULE

The **Holiday Schedule** includes all holidays for which openings and closings may occur at different times than usual. The Holiday Schedule overrides the regular Opening/Closing Schedule for that particular day.

To define holidays, at the **Holiday Schedule** screen, do the following:



1. Enter the month of the first holiday, using the **[+/-]** keys to change your selection. Press .
2. Enter the actual day of the month on which the holiday occurs, also using the **[+/-]** keys. Press .
3. Check each partition for which the holiday schedule applies, using the **[+/-]** keys to check and un-check each partition. Press .


When all holidays have been entered, press the  key to continue your Scheduling options. Press **ESC** to return to the **Customer Information** screen.

LIMITATION OF ACCESS

Limitation of Access applies to those users whose access codes are to have "limited" access to the system. This means that their codes will only work during certain hours of the day, and will not work if attempted outside of that schedule. You can create up to eight Access Schedules. Any user belonging to an Access Group will automatically follow the Access Schedule of the same number (i.e., Access Group 1 follows Access Schedule 1).

To define Access Schedules, at the **Limitation of Access** screen do the following:

1. At Access Schedule 1 for Monday, enter the Time Window # for the first access window. Press . Enter the Time Window # for the second access window, if applicable. If one large window is preferred, do not enter a second window. Press . The Time Window Table is displayed so you can easily see the windows you have pre-defined.
2. Enter the Access Schedule for each day.
3. If different groups of users will have different Access Schedules, enter the schedules for each group.

When all schedules have been entered, press the  key to continue your Scheduling options. Press ESC to return to the **Customer Information** screen.

LRR SUPERVISION PULSE

Supervision Pulses For LORRA Trigger Outputs (LRR Supervision Pulses)

Select if supervised connection to 7920SE is desired. This option causes the control to send periodic short pulses on the J7 radio triggers. These pulses are used by the 7920SE to determine that its connection to the control is still intact.

Enable for each of the following Trigger Outputs:

Burglary/Audible Panics
Fire
Silent Panic/Duress.



OPEN/CLOSE SCHEDULE


Opening/Closing Schedules are used primarily to outline regular schedules for businesses to Open (Disarm) and Close (Arm) on a daily basis. This allows reporting of Openings and Closings to be limited to those occurring outside of these windows (exception reporting), since this would not "normally" be expected to occur. Opening and Closing Schedules are also used to allow Auto-Arming and Auto-Disarming of the system should no one Open/Close by the end of these windows.



To set up an Opening/Closing Schedule, Time Windows must be pre-defined in the Time Window Definition screen.

To program an Opening/Closing schedule, do the following:

1. Enter the Time Window # for the Opening of Partition 1 for Monday. Press . Enter the Time Window # for the Closing of Partition 1 for Monday. The Time Window Table is displayed so you can easily see the windows you have pre-defined. Press .
2. Enter the Opening/Closing Windows for every day of the week, including holidays.
3. Enter the Opening/Closing Windows for other partitions (if applicable).




When the Opening/Closing schedule is complete, press the  key to continue your scheduling options. Press **ESC** to return to the Customer Information screen.

OUTPUT DEVICE PROGRAMMING

1. At Output (Relay) No. 1, enter the starting Action of the relay. You may press the [F1] **HELP** key to view the available options.
2. Enter the starting Event for the relay. Again, choose from the [F1] options. Then enter the Zone List this event is limited to.

OR

Skip the Event and Zone List and enter a Zone Type. Zone types are used by themselves. If a zone response is chosen as the Zone Type, the relay will transfer on a fault, trouble, or alarm on that zone response type. If a system operation is chosen as the Zone Type (such as Any Burglar Alarm or Disarming), it is the only entry needed for starting the relay Action. Use the [F1] key to see the available options.






3. Enter the Partition the starting event will be triggered by. Enter 0 for all partitions.
4. Enter the stopping event for the relay. Again, if it is a Zone Type/System Operation, it is used without entering a Zone List.
5. Enter the Partition the stopping event will be triggered by. Enter 0 for all partitions. Press .
6. If this relay belongs to a Relay Group (a group of relays that will be activated at the same time), enter the Relay Group #. Press . If it is being activated independently, do not enter anything in this field. Press .
7. If this relay is to be Restricted from use by the end-user (via End-User Output Programming), choose (Y)yes for Restriction.
8. Enter the Relay Type. When you enter 1 for a 4204 relay, you will be prompted for the Device Address and physical Relay Number of that relay. When you enter 2 for an X-10 device, you will be prompted for the House Code and Unit Code of the X-10.

When all relays have been programmed, press the **ESC** key.

PARTITION DEFINITIONS

The Partition Definition screen is used to define your system parameters. It is an overall definition of what the system will consist of in terms of partitions, users, and what physical areas the partitions will represent.




To program Partition Definitions, at the Partition Definition screen, do the following:

1. Enter the number of partitions the system will be comprised of. Press .
2. In the No. Users column, enter the maximum number of users to have access to Partition 1. Press .
3. Now enter a four-letter descriptor for that partition (if desired). This descriptor will appear on each keypad in Partition 1. Press .
4. The Primary Subscriber Account (PRI SUB) for Partition 1 defaults to the Account # entered in the Customer Information Screen. Press .
5. If a Secondary Subscriber Account (SEC SUB) is desired, enter a three or four digit number (0-9). Press .
6. Enter the above information for remaining partitions. You may want to enter a different Primary Subscriber Account for other partitions, especially if other partitions are to be used by different customers (i.e., mini-shopping center).
7. To modify the Default Message for each partition's keypads when the system is ready for arming, press [F1]. Type in the desired message for the displayed partition. Choose [F3] to go to the next partition. Select [F4] to go to the previous partition. Press ESC when all messages have been entered.

PERIPHERAL DEVICES

Peripheral Devices are devices which are connected to the keypad terminals, and are used in conjunction with an addressable system. Since you may be assigning consoles to various partitions, and may have an RF Receiver and/or 4204 relay module, the panel must have a way to tell one device from another, giving it the appropriate information. We call this method Enhanced Console Protocol (ECP). It is accomplished by assigning each device its own unique address.

To assign devices to individual addresses, at the **Peripheral Devices** screen, do the following:

1. Place a Device Type next to a Device Address located to the left of your screen (a list of Device Types is displayed). The address of 00 is reserved for an Alpha Console. Press .
- 2a. If the device is an Alpha or Fixed Console, enter the home partition of the console. Press  again and enter the sounder suppression option if desired (Press [F1] for a list of choices).
- 2b. If the device is an RF Expander, enter the House ID of the receiver.
- 2c. If the device is an Output Relay Module (4204), or a Voice Module (4284) no additional information is required.
- 2d. If the device is a 4285 voice module, enter the home partition. Press .



IMPORTANT! EACH DEVICE MUST BE SET TO THE SAME PHYSICAL ADDRESS TO WHICH YOU HAVE ASSIGNED IT IN V-LINK (CHECK DEVICE INSTALLATION INSTRUCTIONS FOR ADDRESS SETTINGS).

If two devices are accidentally set to the same address, or a console is in the non-addressable mode, it will adversely affect other devices. If you experience difficulty with console operation, compare the programmed device addresses to the physical device addresses.

PRIMARY REPORT OPTIONS

Alarms
Restores
Bypasses, Troubles
Open/Close
Low Batt./AC
Loss/Test

This screen allows you to select whether a standard or expanded report format will be sent to the Central Station for these report types.

RELAY TIMEOUT OPTIONS

Access Control Relay: This option allows you to enter an access control relay for each partition. This is a relay that will transfer for two seconds when a user's access code + 0 is entered from any keypad in that partition. This feature is frequently used to unlock a main entry door. If more than two seconds is required, do not program the relay in this section.


Long Timeout: Used for relays that will turn off after minutes have passed. The number you enter will be multiplied by two and will apply to the Stopping Event of a relay (Zone Type 56), or the Time Driven Event Action 09, if selected.




Short Timeout: Used for relays that will turn off after seconds have passed. The number you enter will apply to the Stopping Event of a relay (Zone Type 57), or the Time Driven Event Action 10, if selected.

Press the  key to continue Output Device Programming.

RELAY VOICE DESCRIPTORS

Relay Voice Descriptors are English language descriptors for relays which are enunciated over a telephone line by the 4285 voice module (where supported by the control panel). To program Relay Voice Descriptors, do the following:

From the Customer Information screen, select [F4] RELAYS. Press the  key until you get to the Relay Voice Descriptors screen.

1. Relay 1 is displayed. If a descriptor is not desired for Relay 1, use the [+] key to advance to the relay desired. Using your cursor keys, scroll through the vocabulary of words until the first word of the desired descriptor is highlighted (you may also type the first letter of the word desired and the system will automatically scroll to words beginning with that letter). When the desired word is highlighted, press . The word will appear in the "New Version" box.
2. Now scroll to the second word of this relay's descriptor. Press . This word will appear under the first word in the "New Version" box.
3. If a third word is required, repeat the above procedure. Press  to have the relay descriptor move from New Version to Present Version. If the relay descriptor field is full, this may happen automatically.
4. Once the descriptor appears in the Present Version field, use the [+] key to advance to the next relay (the [+/-] keys are used to change relay numbers).

Continue entering your relay voice descriptors until all relays have been entered. Press ESC to leave the Relay Programming section.

REMOTE ACCESS ENABLES

Local Program Lockout	This option prevents re-entry into the program mode through the keypad.
Arm	If selected, this option allows zones to be remotely armed through V-LINK
Bypass	If selected, this option allows zones to be remotely bypassed through V-LINK.
Console Programming Mode	This option allows access to program mode via the console (same as exiting *99). If not selected, you will be prevented from re-entering or entering the program mode from the keypad (same as exiting *98). To re-enter you must power the system down then power the system up and press the * and # at the same (within 60 seconds) time.
Dialer Shutdown	If selected, the dialer at the Control Panel can be shutdown at a later time using the SHUTDOWN command while On Line with the Control Panel.
Disarm	If selected, this option allows zones to be remotely disarmed through V-LINK.
Download Callback	Used when downloading to select callback, or no callback.
Download Leave Message	Used to display a special message on the keypad.
Download without Callback	See "Download Callback."
System Shutdown	If selected, the Control Panel operation can be shutdown at a later time using the SHUTDOWN command while On Line with the Control Panel.
Upload	If selected, this option allows Control Panel programming to be uploaded to V-LINK.

REPORT CODES

Alarm Digit	The first digit of alarm code for each zone.
Alarm 2nd Digit	The second digit of alarm report code for each zone.
Alarm Restore	Report code sent when zone that caused alarm restores.
Bypass	Report code sent when a zone is bypassed.
Bypass Restore	Report code sent when a zone is un-bypassed (Code + OFF).
Trouble	Report code sent for zone trouble.
Trouble Restore	Report code sent when zone trouble condition has been removed.

REPORT CODES TO CENTRAL STATION

AC Loss	Report code sent when control panel loses AC Power.
AC Loss Restore	Report code sent when AC Power has been restored.
Armed Stay	Report code sent when system is armed in STAY mode.
Cancel	Report code sent when system is disarmed when the system is in an alarm condition.
Close	Report code sent when system is armed in the AWAY or MAXIMUM mode.
Exit Alarm	Report code sent for an alarm occurring right after exit delay has expired, indicating that the entry/exit zone was not properly closed.
Low Batt	Report code sent for a low system backup battery.
Low Batt Restore	Report code sent when low battery condition has been removed.
Opening	Report code sent when system is disarmed.
Power Up	Report code sent when system is powered from a completely un-powered state.
Program Tamper	Report code sent when exiting the program mode, whether through the keypad or through V-LINK.
Stay	Report code sent when system is armed in the stay mode.
Test	Report code sent periodically (depending on control panel options) to verify communicator operation.
Trouble	Report code sent for zone trouble.
Trouble Restore	Report code sent when zone trouble condition has been removed.
Time & Date Set & Event Log Reset	Report code sent when the current time and date or the event log has been reset.

Event Log 50% Full & Event Log 90% Full Report code sent when event log is 50% and 90% full.

Event Log OverFlow Report code sent when new events occur causing the oldest events to be discarded.

RESTORE REPORT CODES

Alarm	Report code sent when zone that caused an alarm restores.
Trouble	Report code sent when zone that caused a trouble condition restores.
AC Loss	Report code sent when AC power is restored.
Low Battery	Report code sent when Low Battery condition is removed.
Transmitter Low Battery	Report code sent when Transmitter Battery has been replaced, and transmission has been sent with new battery.

RF INFORMATION

4281/5881 Monitoring Interval (Hours)	Enter the check-in monitoring interval, if desired. Failure of a receiver to receive any RF signal within the time entered will result in activation of the response type programmed for the receiver.
RF Button Force Bypass	This option is used to allow the RF Button user to force bypass all faulted zones. When attempting to arm the system, the console will beep once after pressing the button, if any faulted zones are present. If this feature is enabled, the user should then press the button again within 4 seconds will force bypass those zones and arm the system.
RF Button Global Arm	This option allows the system to arm/disarm in accordance with the button user's global arming settings. Select Disable if the button is not to be used to global arm the system (however, home partition arming will still occur).
RF Supervision Audible (Disable Trouble Sounder for RF Supervision)	Provides audible sounding for transmitter check-in failure.
RF Transmitter Low Battery Annun.	Select Enable if audible beep and visual display upon RF transmitter low battery condition is desired.
RF Transmitter Low Battery Report Enable	Allows a trouble message for RF transmitter low battery conditions to be sent to the central station. Note that a trouble message will be sent for a transmitter supervision failure independent of this selection.
RF Transmitter Supervision Check-in Interval (RF Point Supervision)	Enter the check-in monitoring interval. Failure of an individual transmitter to send a supervision signal within the time entered will result in a trouble response and related communication report. Enter 00 to Disable transmitter supervision.
Wireless Keypad Assignment	For partitioned system, enter the partition in which the RF keypad is used. Enter 0 if no RF keypad is used.

**Wireless Keypad
Tamper Detection**

This option enables tamper detection for the wireless keypad. If this feature is enabled, any attempt to tamper by means of many trial entries at a wireless keypad will be blocked by the Control Panel. If more than 40 key depressions are received without a valid sequence (arm, disarm, etc.), the Control Panel will disable the wireless keypad. The inhibit is removed once a valid key sequence is received from a wired keypad.

SCHEDULING OPTIONS FOR PARTITIONS

AUTO-ARM DELAY:

This is a period of time that Auto-Arming will be delayed past the end of the normal closing window. Use the [+/-] keys to make your selection. Select **Instant** for no delay. Select **Disabled** for no Auto-Arming. Otherwise, choose the delay time desired.

NOTE: If **Instant** is programmed, the system will start its Auto-Arm Warning Period, if one is programmed, at the end of the closing window. If an Auto-Arm Warning period is not programmed, the system will automatically arm at the end of the closing window.

AUTO-ARM WARNING:

This is the warning period before Auto-Arming occurs. If programmed, the keypad will give an audible warning at the end of the closing window for the period of time chosen until Auto-Arming occurs. Use the [+/-] keys to make your selection.

AUTO-DISARM DELAY:


This is a period of time that Auto-Disarming will be delayed past the end of the normal opening window. Use the [+/-] keys to make your selection. Choose **Instant** for no delay. Select **Disabled** for no Auto-Disarming. Otherwise, choose the delay time desired.

FORCE ARM FOR AUTO-ARM:

This option allows arming of the system even if a zone (or more than one zone) is faulted. If Enabled, the system will automatically bypass all faulted zones and Auto-Arm. If Disabled, the system will not Auto-Arm if a zone is faulted.

DISARM ONLY DURING DISARM WINDOW:

This option allows the system to be disarmed only during the opening window. If an attempt is made to disarm outside of the opening window, the user's code will not work. Select Enable to limit disarming to the opening window. Select Disable to allow disarming any time in which the user's code normally operates.

When these selections have been made, press the  key to continue your Scheduling options. Press ESC to return to the Customer Information screen.

SCHEDULING REPORT CODES

Scheduling Report Codes are used for reports that are dependent on time-related activities. If an activity (i.e., arming/disarming) is normally expected to occur at or by a certain time, and it doesn't, a notification may be sent to the Central Station, if desired. Following is a description of each report code related to Scheduling:

Early Opening:

This signal will be sent if the system (or a partition) is disarmed before the beginning of its Opening Window.

Early Closing:

This signal will be sent if the system (or a partition) is armed before the beginning of its Closing Window.

Late Opening:

This signal will be sent if the system (or a partition) is disarmed after the end of its Opening Window.

Late Closing:

This signal will be sent if the system (or a partition) is armed after the end of the Closing Window.

No Opening:

This signal will be sent if the system (or a partition) is not disarmed by the end of its Opening Window.

No Closing:

This signal will be sent if the system (or a partition) is not armed by the end of the Closing Window. (If system is programmed for Auto-Arm, this report should not be used.)

Auto-Arm Failure:

This signal will be sent if the system (or a partition) fails to Auto-Arm at the specified time.

Access Schedule Changed:

This signal will be sent if an Access Schedule (schedule for enabling of an Access Groups' user codes) has been changed.

When all Scheduling Report Codes have been entered, press **ESC** to return to the **Customer Information** screen.

SECONDARY REPORT OPTIONS

Alarms
Restores
Bypasses, Troubles
Open/Close
Low Batt./AC
Loss/Test

This screen allows you to select whether a standard or expanded report format will be sent to the Central Station for these report types.

SOUNDER OPTIONS/SOUNDER OPTIONS FOR PARTITION

AC Power Loss Alarm	If selected an external alarm sounds after AC power has been out for four hours. Normally, only Console Sounding occurs during AC power loss (if programmed).
AC Power Loss Console Sounding	If selected, sounding (rapid beeping) at the console occurs when AC Power is lost. If not selected, no AC Loss Sounding occurs.
Alarm Bell Sound (Pulse/Steady)	Selects the type of alarm sound, steady or pulse.
Alarm Sounder Duration	Defines the length of time the external sounder and the console's sounder will sound for all audible alarms. This duration can be overridden by the fire time-out Disable option for Fire Alarms.
Aux Relay Function	Select the function of the Auxiliary Relay: trouble/supervisory, alarm silenced by Code + Off, reset, battery save, or alarms silenced by Code + # + 67.
Beeping Sound on AC Loss	If selected, a beeping sound on AC power loss occurs. Same as "AC Power Loss Console Sounding."
Bell 1, Bell 2 & Aux Relay Activation	Used to assign each zone to either one or both bell outputs and/or the auxiliary relay. Enter the corresponding number of your choice for each zone.
Chime on External Siren	Select if chime is to heard on the external sounder in addition to the keypad.
Confirmation Of Arming Ding	If selected a short external alarm sounding "ding" at the of Exit delay #1 occurs. If sending a closing signal, the "ding" will be heard upon <u>kissoff</u> from the Central Station receiver.
Console Annunciation on Entry (Entry Warning)	Selects the type of console sounding upon entry delay, 3 beeps or continuos.
Console Annunciation on Exit (Console Annunciation During Exit Delay)	If selected, a quick beeping at the console during the exit delay period occurs.

Sounder Timeout Duration

Same as Sounder Duration.




Sounder Timeout for Fire

Select whether or not fire zones will follow the bell timeout selected, or sound until disarmed.

SUBSTITUTE VOICE DESCRIPTORS

Substitute Voice Descriptors are used in conjunction with a 4285 Voice Module. Since the voice module cannot annunciate custom words, this option allows you to replace those words with words in the voice module's vocabulary. If you have entered custom words for the zones' Alpha Descriptors, These words will act as "substitutes" for the original custom words when the control panel is accessed through the phone line. They will not be replaced on the system's keypads.

To program Substitute Voice Descriptors, at the Substitute Voice Descriptors screen, do the following:

1. The first custom word is displayed. Using your cursor keys, scroll through the list of words in the voice module's vocabulary until the desired replacement descriptor is highlighted (you may also type the first letter of the word desired and the system will automatically scroll to words beginning with that letter). When the desired word is highlighted, press . The word will appear under the custom word in the "Custom Word" box on the right-hand side of the screen.
2. If the incorrect word was chosen in error, choosing another word in the manner described above will replace the first. If not, press  again. The new word now becomes the replacement word and appears in the left-hand "Custom Word" box under the first custom word.
3. Use the [+] key to display the next custom word. Follow steps 1 and 2 to enter a "substitute" word for this custom word.
4. Continue entering your "substitute" descriptors until all custom words have been replaced. Press  to continue programming your Alpha Descriptors.

Note: If the voice module does not recognize a word in the alpha descriptor for a zone, it will annunciate the zone number only.

SYSTEM DEFINITIONS/SYSTEM DEFINITIONS FOR PARTITION

1st RF Expander in use	Select Yes if 1st RF Expander is installed.
2nd RF Expander in use	Select Yes if 2nd RF Expander is installed.
4284/4285 Phone Code	A 2-digit code required to access system via voice module.
Allow Sign-On From Other Partition	For partitioned systems, allows this partition to be accessed from another Partition using a GOTO command.
Aux Unit (selects 4116, 4281)	Selects the type of device being used with the system, 4116 keyswitch or 4281 series RF receiver
Console Panics for Keys	Used to select which console panics will be used for selected partition.
Enable Burg. Features	Select Enable to allow keypad arming functions which include AWAY , STAY , MAX and INSTANT , as well as the CHIME mode. Disable if system is used strictly for fire and 24-hour Zone Supervision.
Enable Fire and Supervisory Zone Bypass	Select to allow fire and supervisory zones to be bypassed.
Enable Permanent Display Backlighting	Allows backlighting for the console display to remain on at all times. If not selected the display remains unlit unless a key is pressed. The backlighting then turns off again after a period of keypad inactivity. Note that when a key is pressed, display backlighting turns on for all consoles in that partition.
Enable Printer Port J2	If selected, J2 pins 5 & 9 serve as printer RXD&DTR pins.
Entry Delay #1	Defines the delay time which allows users to reenter the premises through a door that has been programmed as an entry delay door and disarm the system without sounding an alarm. The system must be disarmed within this period or an alarm will occur. Enter the entry delay time desired for the zone assigned to Entry Delay #1.
Entry Delay #2	Entry Delay #2 is used for the zone assigned to Entry Delay #2 zone type. Note that this delay must be longer than Entry Delay #1.

Exit Delay #1	Exit delay defines the delay period that allows users to leave the premises through a programmed Entry/Exit door after arming the system without setting off the alarm. Enter the exit delay time for the zone assigned to Exit Delay #1.
Exit Delay #2	Exit delay #2 is used for the zone assigned to Exit Delay #2. Note that this delay must be longer than Exit Delay #1.
Expansion Zone Tamper Disable (4190 Tamper Detection)	Only applicable to certain polling loop sensors with tamper switches or if 5800 series transmitters are used. This option is used to disable this module's tamper detection. Select Enable if tamper detection is desired.
Extended Delay for Zone Types 17/18 (Expander)	Provides up to 30 second delay for waterflow and fire supervisory zones.
First 4280 Receiver Select	Select Yes if 4280 Receiver is installed.
Force Bypass	If selected, permits selection of quick bypass of all open zones.
House (ID) Code	Enter a House ID for the wireless receiver. Allows receiver to hear transmitters programmed for the same House ID.
Keyswitch Arming	Select if using a keyswitch in this installation.
Keyswitch Assignment (Keyswitch Arming Partition)	For partitioned systems, enter the partition number in which the keyswitch is being used; otherwise, enter 0. Keyswitch may require the use of a hardwired zone, which will no longer be available as a protection zone when used for keyswitch operation. If the keyswitch is used, the fire and panic alarm voltage triggers automatically become ARMING and READ status outputs for support of the Keyswitch LEDs.
	NOTE: Refer to Control's instruction manual for details.
Keyswitch Mode 1, 2	Determines how the keyswitch operates, either arms/disarms and silences alarm bells or silences alarms only if fire is present.

LRR Burg. Trigger For Response Type 8	Allows optional triggering of the burglary trigger output for zone response type 8 (24-hour auxiliary). The disable selection is useful if this output is used for a panic trigger, and non-panic devices are used for all zones assigned to zone response type 8 (e.g. water sensor, temp. sensor). If disabled, only burglary or audible panic alarms (zone type 7) will trigger.
Multiple Alarms (per armed period)	Determines whether or not more than one alarm can be sounded in a given zone during an armed period. Note that multiple alarm soundings will not occur more frequently than allowed by the programmed alarm sounder duration. This selection applies to local sounding and has no impact on the number of communication messages transmitted. Refer to Swinger Suppression for limiting communication messages.
Non-Bypassable Zone	Enter a zone number that is not to be bypassed under any circumstance.
Only 1 4208 Zone Expander in use?	Always set to NO.
Open/Close Reporting For Keyswitch	If selected open/close reports for the keyswitch will be sent.
Power Up In Previous State	Select this option if it is desired that upon Power-Up the system will assume the system status prior to power down. Select Disable if it is desired that the system will always power up in a disarmed state. When the system powers up armed, an alarm will occur 3 minutes after arming if a zone is faulted. Note that if the previous state was armed AWAY or STAY, the system may not respond to sensor changes for a small period of time (1-3 min.), which allows time for sensors such as PIRs to stabilize.
Quick Arm	Allows arming of the system by using the [#] key instead of the Security Codes. (The security code must always be used to disarm the system.)
Relay Expansion	Selects use of 4204 Relay Module.
RF Expander Type	Select the type of receiver installed; 4280/4281/5881.

RF House ID	Enter a House ID for the wireless receiver. Allows receiver to hear transmitters programmed for the same House ID. (Same as House (ID) Code.)
Second 4280 Receiver Select	Select Yes if second 4280 Receiver is installed. Enter No if only one or no Receiver is installed. If second Receiver is installed, be sure to configure it as such at the receiver (by cutting blue jumper on the 4280).
Single Alarm Sounder per Zone	Limits the sounding of alarms within a given armed period for a zone. Same as Multiple Alarms (per armed period).
Supervisory On Open & Short	Select if a short or an open on a Supervisory Zone is to cause a trouble response.
Trigger Outputs Function	Determine Long Range Radio output functions.
Use Partition Descriptors	Select if partition descriptors will be programmed. If selected the normal console display will include a partition number and the partition descriptor.
User 22 Baby-sitter Code	Select this option if it is desired that User 22 cannot disarm the system unless the system was armed by User 22.
Water Flow Alarm Silence	Select whether Water Flow Alarm will be silenced Automatically when zone restores or As Other Alarms (Code + OFF) .
Water Flow and Fire Supervision Delay	Enter the delay time for alarm on these zone types.
Water Flow and Fire Supervision Delay (Zone types 17 & 18)	Provides a programmable delay up to 30 seconds for zone types 17 & 18 (water flow and fire supervisory).
Wired Expansion	Selects either 4219, 4229, or 4204 wired expansion modules.








SYSTEM STATUS REPORT CODES


AC Loss	Report code sent when control panel loses AC Power.
AC Loss Restore	Report code sent when AC Power has been restored.
Armed Stay	Report code sent when system is armed in STAY mode.
Cancel	Report code sent when system is disarmed when the system is in an alarm condition.
Close	Report code sent when system is armed in the AWAY or MAXIMUM mode.
Exit Alarm	Report code sent for an alarm occurring right after exit delay has expired, indicating that the entry/exit zone was not properly closed.
Low Batt	Report code sent for a low system backup battery.
Low Batt Restore	Report code sent when low battery condition has been removed.
Opening	Report code sent when system is disarmed.
Power Up	Report code sent when system is powered from a completely un-powered state.
Program Tamper	Report code sent when exiting the program mode, whether through the keypad or through V-LINK.
Stay	Report code sent when system is armed in the stay mode.
Test	Report code sent periodically (depending on control panel options) to verify communicator operation.
Trouble	Report code sent for zone trouble.
Trouble Restore	Report code sent when zone trouble condition has been removed.

TEMPORARY SCHEDULE

A **Temporary Schedule** overrides the regular Opening/Closing Schedule and may be defined at any time. Once defined, it must be "turned on" for a particular day of the week, or for as many as seven days from the date of activation. Once each day of the Temporary Schedule has passed, that day reverts back to its normal schedule.

To create a Temporary Schedule, at the **Temporary Schedule** screen, do the following:




1. Press  until you are at the first day of the week in which the change is to take place.
2. Enter the Start time for the Disarm (Opening) window. Enter the hours first. Press . Enter the minutes. Press  again. Then select AM or PM by using the [+/-] keys. Press .
3. Enter the Stop time for the Disarm (Opening) window as described Start time (step 2). Press  to proceed to the Arm (Closing) window.
4. Enter the Start time for the Arm (Closing) window as described step 2. Press .
5. Enter the Stop time for the Arm (Closing) window as described above in step 3. Press .
6. Complete your Temporary Schedule for each day to which it applies. To activate the schedule for a particular day or days, there is an option at the top of the screen to turn the schedule on or off for each day. Use the [+/-] keys to change your selection. This activation applies only to the next occurrence of that day. If the change is to be permanent, change your permanent Opening/Closing Schedule.

When the Temporary Schedule is complete, press the  key to continue your Scheduling options. Press **ESC** to return to the **Customer Information** screen.

TIME DRIVEN EVENT PROGRAMMING

Time Driven Events are events that are completely dependent on time. An event uses a time window to be activated, and can use either the beginning of the window, the end of the window, both beginning and end of the window, or the duration of the window for activation.

To program Time Driven Events, at the **Time Driven Events** screen, do the following:




1. Enter the Time Window # you will be working with. Press .
2. Check the days for which you want this event to be activated. Do this by using the [+/-] keys to check and uncheck the days desired.
3. Enter the Action desired. Use the [F1] Help key to view the available actions. Enter the Action's corresponding number.
4. Now enter the Activation Time for the event. Press  to review the available options. Press .


When all entries have been made, press the  key .

TIME WINDOW DEFINITIONS

This screen is used to pre-define time windows that will be used in various applications. Once created, you may use the same time window for more than one application. For example, you may want to activate a relay to turn a light on between the hours of 8:00 PM and 10:00 PM. You may also want the system to Auto-Arm at 10:00 P.M. You may use the same window, but the activation time for each application would be different. You want the light to come on during the window, but you want the system to Auto-Arm at the end of the window. These are two different events that may use the same time window. Therefore, the window need only be created once.

To create time windows at the Time Window Definitions screen, do the following:

1. Enter the Start Time for Time Window 1. Enter the hours first. Press . Enter the minutes. Press  again. Then select AM or PM by using the [+/-] keys.
2. Enter the Stop Time for Time Window 1 as described above. Press  to proceed to Time Window 2.
3. Enter all time windows to be used for your schedules and time-driven applications as described above.

When all windows are defined, press the  key to continue your Scheduling options. Press ESC to return to the Customer Information screen.

TRANSMISSION FORMAT

Checksum	<p>This option, allows either or both primary/secondary formats to send a verification digit to validate the message at the receiver without having to send two message rounds. Selection is valid for 3+1, 4+2, and ADEMCO High Speed reports. It is automatic in Contact ID and ADEMCO Express.</p> <p>NOTE: The Central Station receiver must be able to accept checksum, please check with Central Station before choosing this option. Same as Checksum (Transmit Format).</p>
Primary Transmission	<p>This field selects the reporting format for the primary telephone line. Enter the appropriate number for the primary format for one of the following: Low Speed, Contact ID, ADEMCO High Speed, ADEMCO Express</p>
Radionics	<p>Select YES if Radionics (0-9, A-F) reporting is desired.</p>
Secondary Transmission	<p>This field selects the reporting format for the secondary telephone line. Enter the appropriate number for the secondary format for one of the following: Low Speed, Contact ID, ADEMCO High Speed, ADEMCO Express.</p>
Sescoa/Radionics Select	<p>This option applies if Low Speed is selected. Select Radionics for hexadecimal 0-9, B-F reporting. Select SESCOA format if it is to be used with numeric reporting only (0-9). Note that the selection applies to both primary and secondary phone numbers.</p>
Speed	<p>Select either ADEMCO or SESCOA.</p>

ZONE DEFINITIONS

EOLR Supervision, Zones 2–8	Must be selected if EOLR are used on any of these zones.
EOLR Supervision, Zones 3–8	Must be selected if EOLR are used on any of these zones.
IN: L (Input Type Loop)	Enter the zone devices input type, hardwired, wireless, polling loop, etc
NC (Normally Closed)	Select if this zone will use normally close contacts.
NO (Normally Open)	Select if this zone will use normally open contacts.
PART (Partition)	Enter the Partition this zone is in.
Report Codes For Zones (RC)	Enter the appropriate report codes for each zone used in the system.
RF/RPM	Select whether this zone is wireless or on the multiplex loop.
RPM Loop	Select whether this zone is on the "left" or "right" loop of an RPM module.
S/N (Serial Number)	Applicable only if 5800 series wireless is used. This is the internal serial number of the wireless transmitter. The Serial Number can be entered manually, scanned using a Bar Code decoder, or uploaded from a control panel that has previously learned serial transmitters/contacts. For more information on Bar Codes see Bar Code Decoder section in this manual.
Type	Enter the zone response type of the zone.
Zone 6 Alt. Function	Allows Zone six to operate as a tamper loop for both control cabinet and bell box. If used, Zone 6 should be assigned Type 5 (day/night).
Zone 9 (8, 3) Response Speed	Permits selection of fast or slow response for the zones displayed.








See Zone Definitions Revealed For Detailed Information On Programming Zone Definitions.

ZONE DEFINITIONS REVEALED

The **Zone Definitions** screen is used to define the characteristics of zones, such as a zone's response to a fault or trouble in both armed and disarmed states, whether a zone is hardwired, wireless, or located on the multiplex loop, and the partition the zone belongs to (if applicable). Different panel types have different requirements.


4140XMPT2, VISTA-40:

1. Enter the number corresponding to the Zone Type desired for Zone 1 (Press the [F1] Help key for a list of available Zone Types). A description of the Zone Type appears in the **Type** column. Press .
2. Enter information about the zone in the **Zone Info** column. *This information is for reference only!* It is not an alpha descriptor of the zone. Press .
3. Enter the **Partition** to which you are assigning this zone. If the system is not partitioned, enter 1. Press .
4. Enter the Reporting Code for this zone in the **RC** column. Press .
5. Enter the **IN** (Input Device Type) for this zone. The Input Device Type tells the system where to look for the zone, whether on the panel, the multiplex (polling) loop, or an RF type of zone. The system divides these categories down even further. Press [F1] Help to see the list of options. Change your selection by using the [+/-] keys. Press .






IMPORTANT NOTE

IT IS CRITICAL TO MAKE THE RIGHT SELECTION IN THIS FIELD FOR PROPER ZONE OPERATION.

6. The **L** and **S/N** columns are strictly for information that will be uploaded to V-LINK from the panel. They are abbreviations for "Learned RF Loop Input" and "Learned S/N." These are used only for control panels using 5800 series wireless systems, and will only be used for the RF zones. Press .
7. Continue programming the other zones that will be used in the system in the manner described above.

When Zone Definitions are complete, press the  key to continue your system programming.

4140XMP:

1. Enter the number corresponding to the Zone Type desired for Zone 1. A description of the Zone Type appears in the Type column. Press .
2. Enter information about the zone in the Zone Info column. *This information is for reference only!* It is not an alpha descriptor of the zone. Press .
3. For zones 1-9, select either RF (wireless) or Wired, using the cursor keys. For any zone above Zone 9, select either RF (wireless) or RPM (Remote Point Module) which is any device used on the multiplex (polling) loop. If RPM is selected, you must tell the system whether the device is a Left Loop or a Right Loop device. Press .





A Left Loop Device Refers To Any Zone On A 4208 Zone Expander, The First Zone On A 4190 2-Zone Expander (The Zone Number That Matches The Dipswitch Settings), Or Any Device Wired Directly To The Polling Loop. The Right Loop Refers Only To The Second Zone Of A 4190, Or The Second Zone Of An RPM Motion Detector, If Used.

4. Continue programming the other zones that will be used in the system in the manner described above. At the bottom of the first screen, you will be asked to select whether EOLR (End-Of-Line Resistor) supervision is being used for zones 2-8.

When Zone Definitions are complete, press the  key to continue your system programming.









5140XM:

1. Enter the number corresponding to the Zone Type desired for Zone 1. A description of the Zone Type appears in the **Type** column. Press .
2. Enter information about the zone in the **Zone Info** column. *This information is for reference only!* It is not an alpha descriptor of the zone. Press .

On this panel, zones 1-9 are hardwire only, and zones above zone 9 are designated as left (supervised) zones of the multiplex (polling) loop. Therefore, there are no other options for zones on this panel.









When Zone Definitions are complete, press the  key to continue your system programming.

VIA 30, VIA 30P:

1. Enter the number corresponding to the Zone Type desired for Zone 5. A description of the Zone Type appears in the **Type** column. Press .
2. Enter information about the zone under the **Zone Info** column. *This information is for reference only!* It is not an alpha descriptor of the zone. Press .
3. Enter the Reporting Code for this zone in the **RC** column. Press .
4. Repeat steps 1 and 2 above for your keypad (console) panic zones. For Duress and RF Receiver Supervision zones, a response type is not required.
5. Press the  key to display your first expansion zones (starting with Zone 10).
6. Enter the number corresponding to the Zone Type desired for your first expansion zone. A description of the Zone Type appears in the **Type** column. Press .
7. Enter information about the zone under the **Zone Info** column. *This information is for reference only!* It is not an alpha descriptor of the zone. Press .
8. Enter the Reporting Code for this zone in the **RC** column. Press .
9. If an Auxiliary Hardwire Zone Expander has been enabled, your first eight expanded zones will be denoted in the **IN** (Input Device Type) column as **AW** (Aux. Wired). If not, and 5800 series RF has been enabled, then select the Input Device Type of the RF device. Press [F1] Help to see the list of options. Change your selection by using the [+/-] keys. If 5700 series RF has been enabled, the Input Device Type will default to RF.
10. The **L** and **S/N** columns are strictly for information that will be uploaded to V-LINK from the panel. They are abbreviations for "Learned RF Loop Input" and "Learned S/N." These are used only for control panels using 5800 series wireless systems, and will only be used for the RF zones. Press .



When Zone Definitions are complete, press  to continue your system programming.

VISTA 10:

1. Enter the number corresponding to the Zone Type desired for Zone 1. A description of the Zone Type appears in the **Type** column. Press .
2. Enter information about the zone under the **Zone Info** column. *This information is for reference only!* It is not an alpha descriptor of the zone. Press .
3. Enter the Reporting Code for this zone in the **RC** column. Press .
4. Repeat **steps 1 and 2** for your keypad (console) panic zone. For Duress and RF Receiver Supervision zones, a response type is not required.
5. Press the  key to display your first expansion zones (starting with Zone 10.)
6. Enter the number corresponding to the Zone Type desired for your first expansion zone. A description of the Zone Type appears in the **Type** column. Press .
7. Enter information about the zone under the **Zone Info** column. *This information is for reference only!* It is not an alpha descriptor of the zone. Press .
8. Enter the Reporting Code for this zone in the **RC** column. Press .
9. If 5800 series RF has been enabled, then select the Input DeviceType of the RF device. Press [F1] Help to see the list of options. Change your selection by using the [+/-] keys. If 5700 series RF has been enabled, the Input Device Type will default to RF.
10. The **L** and **S/N** columns are strictly for information that will be uploaded to V-LINK from the panel. They are abbreviations for "Learned RF Loop Input" and "Learned S/N." These are used only for control panels using 5800 series wireless systems, and will only be used for the RF zones. Press .


When Zone Definitions are complete, press the  key to continue your system programming.

4120XM:

1. Enter the number corresponding to the Zone Type desired for Zone 1. A description of the Zone Type appears in the Type column. Press .
2. Enter information about the zone under the Zone Info column. *This information is for reference only!* It is not an alpha descriptor of the zone. Press .
3. For zones 1-8, select either RF (wireless) or Wired, using the cursor keys. A 4219 Auxiliary Hardwire Zone Expander can be enabled in a previous screen by entering a first zone number for that module (program field 158). If the first zone number of that module is entered as zone 9, zones 9-16 will automatically be set as wired zones. Any zone not designated by the 4219 Zone Expander will automatically be set to RF.
4. Continue programming the other zones that will be used in the system in the manner described above. At the bottom of the first screen, you will be asked to select whether EOLR (End-Of-Line Resistor) supervision is being used for Zone 1.



When Zone Definitions are complete, press the  key to continue your system programming.


4110, 4110DL, 4120EC:


1. Enter the number corresponding to the Zone Type desired for Zone 1. A description of the Zone Type appears in the **Type** column. Press .
2. For 4120 EC only, select whether this zone is to be used with N.O. (Normally Open) or N.C.(Normally Closed) contacts.
3. Continue programming the other zones that will be used in the system in the manner described above. For 4120EC only, at the bottom of the first screen, you will be asked to select whether EOLR (End-Of-Line Resistor) supervision is being used for zones 1-8.

When Zone Definitions are complete, press the  key to continue your system programming.

4110XM, VIA 16:

1. Enter the number corresponding to the Zone Type desired for the first hardwired zone. A description of the Zone Type appears in the **Type** column. Press .
2. Enter the number corresponding to the Zone Types desired for the rest of the hardwired zones. Press .

NOTE: At the bottom of the screen for the 4110XM, enter Zone 3 Response Time. Options are 400 ms (normal response) or 10 ms (fast response). Press the  key.


3. Enter the Zone Number corresponding to the Zone Type desired for the first expansion zone (if wireless has been enabled). The system automatically knows the expansion zone is a 5700 series wireless device, since this is the only option available for this panel. Press .

When Zone Definitions are complete, Press the  key to continue your system programming.

ZONE LISTS

If your relays are going to operate based on an event occurring on a specific zone or group of zones, you will want to create a Zone List containing those zones.

Programmed zones appear to the left-hand side of the screen. To add a zone to a zone list, do the following:

1. At Zone List 1 (L1), move down through the list of zones to a zone you want to include for that list. Press the [+] key. A check mark will appear in that zone.
2. Move through the zones, adding other zones to the list. If more than one zone list is used, add the appropriate zones to each list. When your lists are complete, press the  key to continue your Output Device Programming.

ZONE TYPES REPORTING RESTORE

Zone Type Restores For
Zone Types

This option allows restore reporting for individual zone types.

BAR CODE DECODER (READER)

Many of the wireless transmitters and contacts available from ADEMCO are now "serialized". Serial devices have unique serial numbers "built in" and are uniquely identified by the Control Panel.

Serial devices have a Bar Code decal affixed to them. By using a Bar Code Decoder, the serial number can be scanned directly into V-LINK. To scan serial numbers into V-LINK follow the steps outlined below:

1. Connect the Bar Code Decoder to the computer according to manufacturer's instructions (the default values of decoder are normally acceptable).
2. Start V-LINK.
3. Select a Control Panel from the **Panel_Select** option of **Main Menu** (*not all Control Panels support serial devices*).
4. Select **Modify** from the **Panel Menu**.
5. Page Down to the **Zone Definitions** screen.
6. Enter Zone information such as Response Type, Report Code, etc. In the **IN** (Input Device Type) field, select the type of serial device this zone represents using the [+/-] keys. Applicable Input Device Types are as follows:

RF -	Supervised 5800 Wireless Device (e.g. 5816)
UR -	Unsupervised 5800 Wireless Device (e.g. 5801)
BR -	Button Type 5800 Wireless Device (e.g. 5803)
SL -	Serial Multiplex (Polling Loop) Device (e.g. 4191SN)
7. In the "L" (Loop) field, enter the loop number of the device (1-4).
8. The "S/N" (Serial Number) field should now have the flashing cursor in it.
9. Carefully scan the Bar Code reader device across the Bar Code of the transmitter/contact. The serial number will appear in the S/N field and a beep will be emitted to confirm entry.
10. Repeat steps 6-9 until all serial numbers are scanned into V-LINK.




A Serial Number May Be Scanned Over Another To Replace An Existing Serial Number. It Is Not Necessary To Clear The S/N (Serial Number) Field Before Scanning Another Serial Number.

SAMPLE.VST FILE

This file is included with the installation/upgrade diskettes, and is automatically installed. **SAMPLE.VST** includes ready made default Subscriber Account Files that support Vista Plus.

Vista Plus is an exciting new concept that allows you to sell convenience and control to your customers. It uses the New line of Vista controls that support relays and X-10.

*Subscriber account information must not be stored in **SAMPLE.VST**. The following procedure must be followed to insure the security of your Subscriber files:*

1. Select **DATABASE** from the **MAIN MENU**.
2. Select **FILE?**, press . At the **FILE OPERATIONS** menu, **OPEN** the file "**SAMPLE**". Press **ESC** to return to **DATABASE** menu.
3. **LOOK-UP** the account referenced on the back of the application sheet in the "Vista Plus Application and Programming Guide",
4. Highlight and **LOAD** into memory.
5. **OPEN** destination Account File by repeating step 2, replacing **SAMPLE.VST** with the appropriate account file. Press **ESC** to return to **DATABASE** menu.
6. Select **SAVE**.

A complete manual of **Vista Plus** applications is available from ADEMCO. Call 1-800-645-7568, ask for Customer Service. Tell them you would like to know more about **Vista Plus** and would like the "Vista Plus Application and Programming Guide". This in-depth guide will help you sell and install the **Vista Plus** concept.

ERROR MESSAGES

ERROR CODES DISPLAYED DURING DATABASE FUNCTIONS:

1. Error Code "***2***"

An error occurred during a read/write attempt of an Account File. If the error occurred while you were creating a new file, there may not be enough room on your disk for the new file.

REMEDY:

If the destination disk is full try creating the file on another drive. If the problem occurred with a file that already exists, the file is damaged and must be repaired using the VLU database repair utility supplied with V-LINK. See **FILE MANAGEMENT, Repairing An Account File** section.

2. Error Code "***22***"

The Account File being opened is not in the correct format. This account file may have been created by an newer version of V-LINK than is currently running.

REMEDY:

Update system to latest version of V-LINK. If you are using the latest version of V-LINK, try repairing the file with the VLU database repair utility supplied with V-LINK. See **FILE MANAGEMENT, Repairing An Account File** section.

3. Error Code "***30***"

The filename specified is not a V-LINK file. Alternatively, it may be a file that was created by an old version of V-LINK and it was not updated by the appropriate revision of V-LINK.

REMEDY:

Make sure you have correctly entered the Subscriber Account filename.

4. Error Code "***35***"

Either the drive specified does not exist or the path name is incorrect.

REMEDY

Check your spelling of the directory name.

5. Error Code "***61**"

Not enough room on your disk drive for database operations.

REMEDY

In general, you should have as much free space on your disk drive as your largest .VST file.

6. Error Code "***61**"

You tried to open or create a file in a directory for which you did not have proper network privileges on the drive in question.

REMEDY

Try another drive or directory or contact your network administrator to get create privileges on the drive in question.

ERROR CODES DISPLAYED WHILE ON-LINE WITH CONTROL PANELS:

1. Error Code "0"

Error code may appear on screen immediately before a Central Station ID Mismatch occurs between V-LINK and the subscribers control panel.

REMEDY:

Be sure the control has the correct central station ID number or is defaulted properly.

2. Error Code "2, 3, or 4"

V-LINK has stopped receiving data from the control panel.

REMEDY

These codes could be due to a lost connection, trouble at the subscriber's site, or equipment trouble. Try to reconnect. If the connection is successful then it was probably a telecommunications provider problem. Otherwise, equipment trouble on site or in the PC is a possibility.

3. Error Code "9"

The carrier detect signal from the modem dropped during transmission of data. This is most likely caused by telephone line noise. After the error code appears, V-LINK will re-transmit the data to the subscriber's control panel.

REMEDY:

Only during severe cases of phone line noise will this error cause interruption of data transmission. In that case the phone lines must be serviced.

4. Error Code "10"

V-LINK transmitted data to the control panel, but did not receive an acknowledge from the subscriber's control panel; indicating that the data was received. This is most likely caused by telephone line noise. After the error code appears, V-LINK will re-transmit the data to the subscriber's control panel.

REMEDY:

Only during severe cases of phone line noise will this error cause interruption of data transmission. In that case the phone lines must be serviced.

5. Error Code "***11**"

V-LINK has been waiting for a carrier from the control panel and the time out period was exceeded.

REMEDY:

Try reconnecting with the panel. If this fails, it could be due to Phone line problems.

ERROR CODES DISPLAYED WHILE STARTING V-LINK:

1. "File BT not Loaded"

V-LINK was not able to load the Btrieve database manager. This is normally due to a small amount of DOS memory available. The minimum amount of DOS memory is 530K.

REMEDY:

There are several ways to acquire more memory available to DOS programs. Some of these are listed below.

If you are running DOS version 6 or greater, run the upper memory manager program **MEMMAKER**. See the instructions that accompanied your DOS system for details.

For DOS version prior to version 6, you may purchase a third party upper memory manager (i.e. Qemm, 386Max).

Remove some of the programs your Autoexec.bat file is loading each time your computer boots. See the instructions accompanying your computer for details.

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