VISTA-5

Installation Instructions
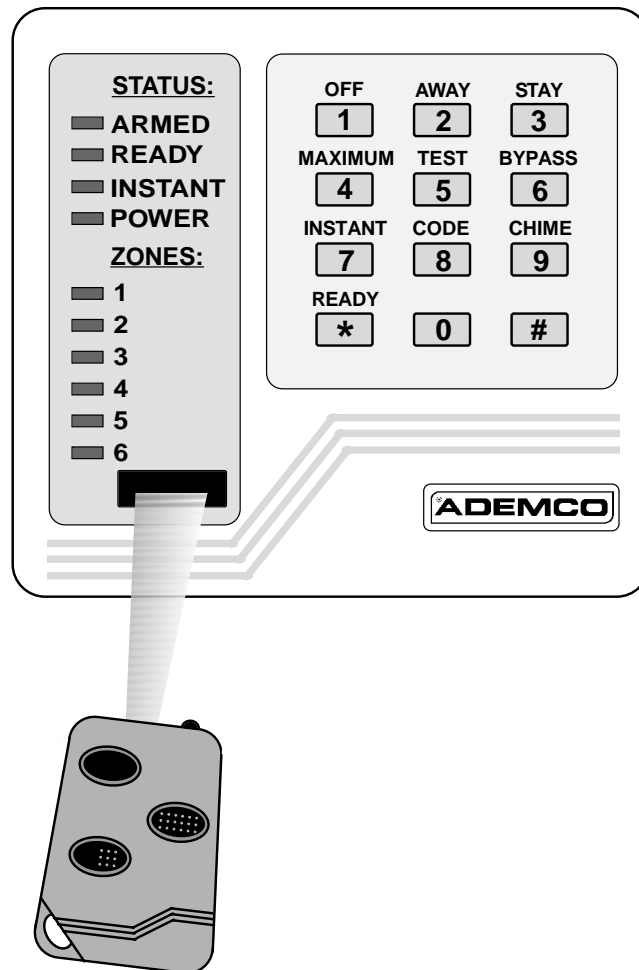
STATUS:
- ARMED
- READY
- INSTANT
- POWER

ZONES:
- 1
- 2
- 3
- 4
- 5
- 6

OFF	AWAY	STAY
1	2	3
MAXIMUM	TEST	BYPASS
4	5	6
INSTANT	CODE	CHIME
7	8	9
READY		
*	0	#

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System Features

Zones Supported

- Up to 6 wired EOLR zones
- EOLR supervised
- N.O. or N.C. sensors
- 300msec normal response or optional fast (10msec) response, programmable by zone
- 24-hr zones. Zones 95, 96, 99 are programmable for silent panic, audible panic, auxiliary, or fire.
- Duress (zone 92, user 06 if enabled)

Refer to the list of ZONE TYPES in the PROGRAMMING THE SYSTEM section for the available zone types that can be programmed in this system.

System

The VISTA-5 is a microprocessor-based state-of-the-art security control that supports up to 6 wired zones.

Auto-Stay Mode

If system is armed AWAY, but the entry/exit door is not faulted by the end of exit delay, the system automatically arms in STAY mode.

STATUS:
- ARMED
- READY
- INSTANT
- POWER

ZONES:
- 1
- 2
- 3
- 4
- 5
- 6

OFF	AWAY	STAY
1	2	3
MAXIMUM	TEST	BYPASS
4	5	6
INSTANT	CODE	CHIME
7	8	9
READY		
*	0	#

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Access Codes

- Installer Code
- Master Code
- Up to 4 Secondary User Codes can be assigned by the system's Master Code.

Communication

The system provides communication capability (central station reporting, etc.) over public analogue telephone lines.

OFF

AWAY

PANIC

STAY OR
PROG. OUTPUT

IMPORTANT

Remove the protective covering from the 6145IR keypad's IR window after installation.

Remote Keypads

(6145IR shown)
- System supports up to four 6145 or 6145IR LED keypads or a 6146IR infrared receiver.
- Keypads are cover/wall removal tamper protected.
- System may also be armed and disarmed using a keyswitch.

Programming

- Easily programmed from any of the 6145 or 6145IR remote keypads.
- Programmed options to establish specific alarm and reporting features are stored in nonvolatile EEROM memory.
- The system can be uploaded, downloaded, or controlled via a computer and Hayes/Baksia modem (see REMOTE PROGRAMMING AND CONTROL section).
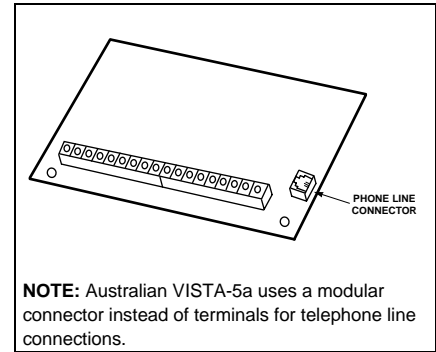
Keyfob
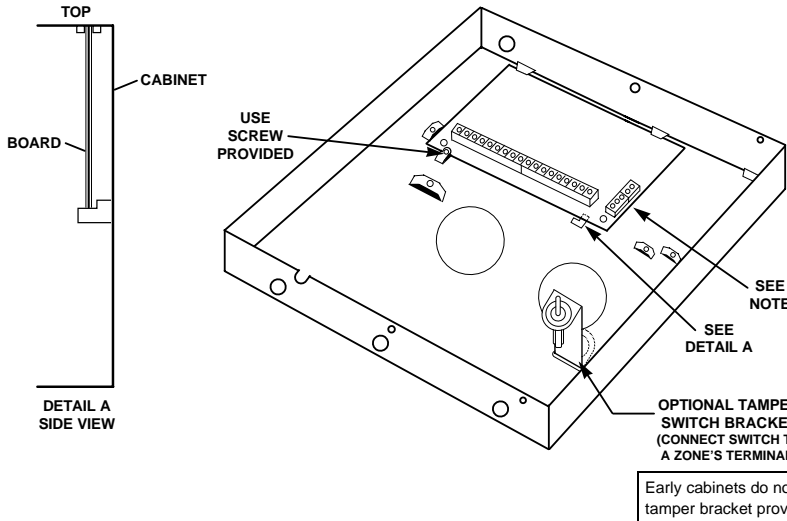
- 6145IR/6146IR support up to 4 remote wireless IR (infrared) keyfobs (INF-TX).
- To install keyfobs, simply assign each one a user number (see SYSTEM OPERATION section), then press any button on the keyfob being assigned while aiming at the 6145IR or 6146IR.
- To select Stay function or Programmable Output for the bottom key, see PROGRAMMING THE CONTROL section: Group 0, field 1, option 6.
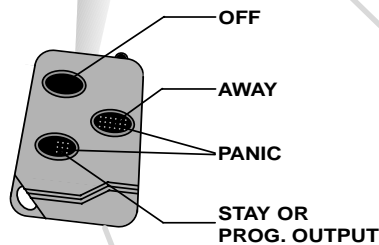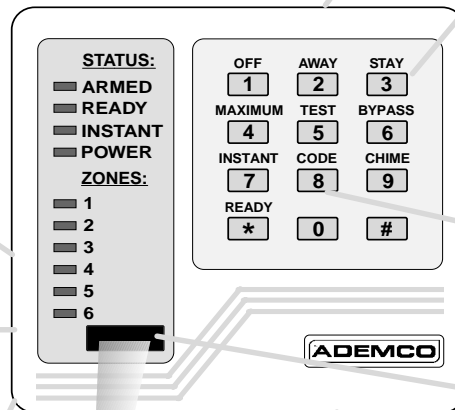
Mounting the Board, Lock & Keypad

MOUNTING THE BOARD

1. Slide the PC board into the slots at the top edge of the cabinet, allowing the board to rest on the cabinet tab and screw-hole standoff.

2. Secure the board using the screw provided.

TOP

CABINET

BOARD

USE SCREW PROVIDED

DETAIL A SIDE VIEW

SEE NOTE

SEE DETAIL A

OPTIONAL TAMPER SWITCH BRACKET (CONNECT SWITCH TO A ZONE'S TERMINAL)

Early cabinets do not have tamper bracket provision.

PHONE LINE CONNECTOR

NOTE: Australian VISTA-5a uses a modular connector instead of terminals for telephone line connections.

INSTALLING THE CABINET LOCK
If a lock is used (Optional ADEMCO No. N6277 Lock/N6277-1 Clip)
(The cabinet can be closed without a lock by using 2 screws in the cover.)
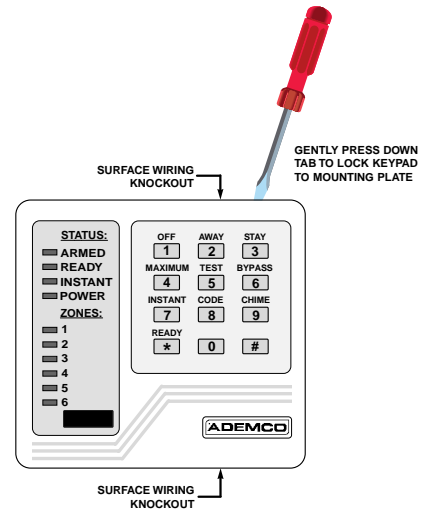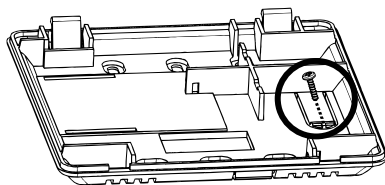
1. Remove the lock knockout on the control cabinet cover. Insert the key into the lock. Position the lock in the hole, making certain that the latch will make contact with the latch bracket when the door is closed.

2. While holding the lock steady, insert the retainer clip into the retainer slots. Position clip as illustrated to facilitate easy removal.

RETAINER CLIP (NOTE POSITION)

LOCKED

RETAINER CLIP

RETAINER SLOTS

UNLOCKED

CABINET DOOR BOTTOM
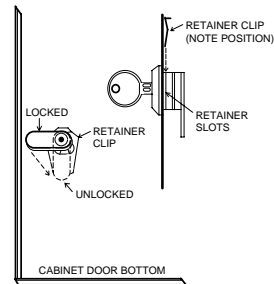
MOUNTING THE KEYPAD

1. Remove the back mounting plate of the keypad by pressing down on the locking tabs.

2. Mount the back plate. If surface wiring the keypad, break one of the surface wiring knockouts before mounting. For concealed wiring installations, pull the connection wires though the rectangular cutout.

   For wall removal tamper protection, insert a screw through the back plate's tamper tab and into the wall.

GENTLY PRESS DOWN TAB TO LOCK KEYPAD TO MOUNTING PLATE

SURFACE WIRING KNOCKOUT

STATUS:
ARMED
READY
INSTANT
POWER
ZONES:
1
2
3
4
5
6

OFF / AWAY / STAY
[1] [2] [3]
MAXIMUM / TEST / BYPASS
[4] [5] [6]
INSTANT / CODE / CHIME
[7] [8] [9]
READY
[*] [0] [#]

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SURFACE WIRING KNOCKOUT

3. After making wiring connections (see next page and Summary of Connections diagramme), snap the keypad back onto the plate by gently pressing down on the locking tabs.

Make wiring connections by referring to the Summary of Connections diagramme on the inside back cover of this manual. Below is a summary description of the terminal connections.

Power Connections

⚠ **Do not connect the battery or AC until all other wiring connections have been completed.**
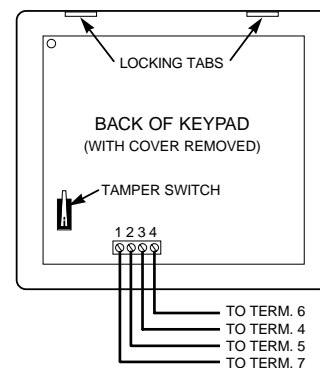
- Connect AC Input from 16.5VAC, 25VA (minimum) transformer to terminals 1 and 2.
- Use ADEMCO 1321 transformer, 16.5VAC, 25VA in locations using 120VAC mains power.

Sounder
- Connect the external sounder to terminals 3 (+) and 4 (–).
- Alarm output is 12VDC, 2.0A maximum.

Keypad, Keyswitch, IR Receiver and Other Devices
- Connect keypads and IR receiver to terminals 4-7 as shown on the Summary of Connections diagramme.
- Terminal 5 can be used to power the keyswitch, if used.
- Terminal 5 can be used to provide smoke detector power (+12VDC at 500 mA).
- Wire each keypad to the control.
- Use no more than 67m of 0.8mm wire or 168m of 1mm wire.
- Multiple keypads (up to 4) may be used, as long as their total current drain is within the auxilliary power output limitations described in the SPECIFICATIONS AND ACCESSORIES section.

LOCKING TABS

BACK OF KEYPAD
(WITH COVER REMOVED)

TAMPER SWITCH

1 2 3 4

TO TERM. 6
TO TERM. 4
TO TERM. 5
TO TERM. 7

Zone Connections
- Connect zone sensors to terminals 8-16 as shown on the Summary of Connections diagramme.
- When zones are used, a 1,000-ohm EOLR should be wired between the farthest sensor connected to the zone terminal and the low side (–) of the zone.

Programmable Output Connections
- Connect devices using Programmable Output #1 to terminal 17 (can sink 150mA) as shown on the Summary of Connections diagramme.
- Connect devices (e.g., keyswitch using red LED) using System Status (red LED) output to terminal 18 (can sink 10mA) as shown on the Summary of Connections diagramme.

Phone connections
- Connect the premises telephones to terminals B1 (TIP) and B2 (RING).
- Connect the incoming phone line to terminals B3 (TIP) and B4 (RING).

⚠ **To prevent the risk of shock, disconnect telephone line at Telecom jack before servicing the unit.**

Grounding the System
- A proper earth ground must be provided for the system in order to protect the system from lightning and electrostatic discharge damage.
- Connect a lead from the B5 terminal to a proper earth ground.

Battery Connections
- Connect the battery leads to a 12VDC battery as shown in the Summary of Connections diagramme.
- When AC mains is present, 13.8VDC is being developed to recharge a gel lead acid battery. When AC mains is absent, 12VDC current is drawn from the battery.

⚠ **Reversing the battery lead will blow the battery fuse.**

Programming The Control

USING PROGRAMME MODE

Installer options are programmed using the keypad and stored in nonvolatile EEROM memory.

> It is possible to programme the system at any time – even at the installer's premises prior to the actual installation. Simply apply power temporarily to the control and then programme the unit as desired.

To enter the Programming mode, use one of the following methods:

- Simultaneously depress the **[*]** and **[#]** keys within 50 seconds after power is applied – **OR**
- Key the factory default **Installer Code** (6+1+4+5) + **8 (CODE) + 0 + 0** keys.
  (Once a different Installer code is assigned, use it instead of 6145 to enter Programming Mode.)

Upon entry to the Programming Mode, all LEDs light momentarily, and the keypad beeps 4 times, then emits 1 long beep. The keypad ARMED LED blinks while in Programme Mode.

NOTE: If the system does not enter Programme Mode, a panic alarm might be active. Clear the alarm (code + OFF) then try again to enter Programme Mode.

To exit Programming Mode, press [*] [#] at the same time, then press either [9] [8] or [9] [9].

98 = Cannot re-enter Programming Mode using Installer Code method.
99 = Can re-enter Programming Mode using Installer Code method.

Programming options are organised into 10 groups of related programming fields. Each field within a group contains locations for data entry. The contents of each group are summarised as follows:

Group 0 – System Options (4 fields, each field containing multiple options)
Group 1 – Installer Code and Phone Numbers (6 fields†)
Group 2 – Zone Response Types for Wired Zones (6 fields†)
Group 3 – Zone Response Types for Panic Keys (3 fields†)
Group 4 – Reporting Options (4 fields†)
Group 5 – Alarm Report Codes for Wired Zones (6 fields†)
Group 6 – Alarm Report Codes for Panics, Duress, Arm AWAY, Exit Error (7 fields†)
Group 7 – System Report Codes (7 fields†)
Group 8 – System Restore Codes (7 fields†)
Group 9 – Bell Timeout, Entry Delay, Ring Detect, Programmable Output Options (4 fields†)

† Each field contains a single option.

To programme the system, do the following:

1. Select a group and field number using the following command string:

[*] [#]	**[Group Number]**	**[Field Number]**
both at same time	(1 beep as key is pressed)	(1 beep as key is pressed plus 1 beep)
(1 long keypad beep)	0-9; Status/Zone 1 LEDs	1-7; Status LEDs
	display group in binary code	display field in binary code
	(see Group Number ID Table);	(see Field Number ID Table in the respective Group sections);
	Zone 6 LED unlit	Zone 6 LED lit (blinks more on than off)

   If this is first-time programming, begin with Group 0, Field 1 ([*] [#] + [0] + [1]).

   - The keypad beeps once after the field number has been entered and the Zone 6 LED flashes, indicating the system is ready to accept entries for the first digit of that field.
   - The keypad beeps twice at the end of a field†† and beeps four times when at the end of a group.
   - To go to a particular field in a particular group, simply press [*] [#], then enter that Group number and Field number (for example, to go to Field 3 of Group 2, press [*] [#] + [2] + [3]).
   - To exit a field without making changes, press [*] [#], then enter the desired group and field number to be displayed.

   (†† three times for report code fields)

2. Enter the data for the fields in the selected group as described in each of the following sections: PROGRAMMING GROUP 0, PROGRAMMING GROUP 1, and PROGRAMMING GROUPS 2-9.
3. Select the next group of fields to programme by pressing [*] [#] + [Group number] + [Field number].
4. After programming all fields in all groups, exit Programming Mode by pressing [*][#]98 (no re-entry to Programme Mode by installer code) or [*][#]99 (allows re-entry to Programme Mode by installer code).

Keypad Sounds and LEDs

When programming, the keypad beeps to indicate the following:
1 beep	=	acknowledgment of key press
1 long beep	=	occurs after pressing [*] [#]; system is waiting for a group number to be entered
2 beeps	=	a. indicates the end of a programme field (occurs after entering the last digit of a field)
		b. in Group 0, indicates toggle of field status (in effect, the end of the field)
3 beeps	=	indicates end of 2-digit field (for example, report code fields)
4 beeps	=	indicates the end of a group
		(occurs after entering the last digit of the last field in a group)

Status LEDs	=	indicate group number or field number in binary code
ZONE LEDs	=	indicate value of digit being entered or viewed in binary code
Zone 6 LED	=	flashes when ready to accept **first digit** of a programme field
		a. rapid flash means system is waiting for first digit entry
		b. slow flash (more on than off) means first digit has been entered, system is waiting for entry of second digit upon which the LED turns off

Group Number Identification

When the group number is entered (before the field number is entered), the Status and Zone 1 LEDs on the keypad display the selected programme group in binary code, as shown in the following table (note that once the field number is entered, the LEDs display the selected field number):

Binary Weight (add if ON)	STATUS:	Group Number									
		0	1	2	3	4	5	6	7	8	9
	ARMED	ARMED LED BLINKS									
1 --	READY	off	**ON**	off	**ON**	off	**ON**	off	**ON**	off	**ON**
2 --	INSTANT	off	off	**ON**	**ON**	off	off	**ON**	**ON**	off	off
4 --	POWER	off	off	off	off	**ON**	**ON**	**ON**	**ON**	off	off
	ZONES:										
8 --	1	off	off	off	off	off	off	off	off	**ON**	**ON**
	2										
	3										
	4										
	5										
	6										

PROGRAMMING GROUP 0 (System Options)

Group 0 consists of 4 programming fields, with each field containing multiple options. The options within each field are explained later in this section and are summarised on the following chart.

- After selecting a field within Group 0, the Zone LEDs indicate whether the respective options within the selected field are on (LED on) or off (LED off).
- To enable or disable an option, simply press the respective key so the corresponding LED is toggled on or off as desired (i.e., press key 1 to toggle state of option 1, key 2 to toggle state of option 2, etc.). The keypad beeps twice when you have toggled a field's status.
- Press the [*] key to advance to the next programme field in Group 0.
- To select another Group or exit a Field without making changes, press [*] [#] at the same time, then press the desired Group number and Field number.

Field Numbers For Group 0

Binary Weight (add if ON)

| 1 -- |
| 2 -- |
| 4 -- |

STATUS:
- ARMED
- READY
- INSTANT
- POWER

ZONES:
- 1
- 2
- 3
- 4
- 5
- 6

The Zone LEDs indicate the state of each option for the displayed programme field (on or off).
To toggle each option on or off, press the respective key.

	Field Number			
	1	2	3	4
ARMED LED BLINKS				
→	ON	off	ON	off
→	off	ON	ON	off
→	off	off	off	ON
Options For Each Field				
→	quick arm	AC loss byp	z1 rsp. time	phone
→	quick byp	exit warn	z2 rsp. time	Sescoa/Rad
→	code lock	arm ding	z3 rsp. time	30s delay
→	inh. dnload	1 alarm/zn	z4 rsp. time	dynam. rest.
→	type 5 opt.	fire alrm time	z5 rsp. time	keyswitch z6
→	keyfob opt.	LEDs off	z6 rsp. time	auto-stay

Begin programming Group 0 (System Options) by pressing [*] [#] + [0] + [1].

GROUP 0 Field 1	Zone LED		Press the respective option number key
	ON	OFF	to toggle the option on/off.

Option Number and Title

		ON	OFF	
1	Quick Arm?	☐	☐	ON = Enable arming without a code entry [OFF = Code always required to arm]
2	Quick Bypass?	☐	☐	[ON = Allow bypass of all open zones using code + [6] + [#]] OFF = Zones must be individually bypassed
3	Keypad Code Tamper?	☐	☐	ON = 20 keystrokes in 15 minutes or less without a valid command locks out the keypad for 15 minutes [OFF = Code tamper protection disabled]
4	Inhibit Download if Armed?	☐	☐	ON = No downloading when system is armed [OFF = Download at any time]
5	Zone Type 5 Response Option?	☐	☐	[ON = Trouble when disarmed, alarm when armed] OFF = Alarm when armed or disarmed
6	IR Keyfob Soft Key Option?	☐	☐	ON = Programmable output (see Group 9, Field 4) [OFF = button 3 will arm in STAY mode]

When options 1-6 in Field 1 are programmed as desired, press [*] to advance to Field 2 in Group 0 (keypad beeps twice), or press [*] [#] + next desired Group and Field number.

GROUP 0
Field 2

Option Number and Title	Zone LED ON	OFF	Press the respective option number key to toggle the option on/off.
1 AC Mains Loss Warning Beeps?	☐	☐	[ON = System beeps upon AC mains loss]
			OFF = No sound upon AC mains loss
2 Exit Delay Warning Beeps?	☐	☐	[ON = Keypad beeps during exit delay]
			OFF = No sounding during exit delay
3 Confirmation of Arming Ding	☐	☐	[ON = 0.5 sec. alarm sound when system is armed]
			(Dings after closing report kissoff, if programmed, and after exit delay, if not.)
			OFF = No arming ding
4 Single Audible Alarm Per Zone?	☐	☐	[ON = Single alarm/zone/ armed period]
			OFF = Multiple alarms/zone/ armed period
5 Fire Zone Timeout?	☐	☐	ON = Same alarm timeout as burglary
			[OFF = Unlimited, manual turnoff]
6 Keypad LEDs off when armed AWAY?	☐	☐	ON = All LEDs off except during E/E delay and 1 minute after when system is armed AWAY.
			[OFF = LEDs active at all times]

When options 1-6 in field 2 are programmed as desired, press [*] to advance to Field 3 in Group 0 (keypad beeps twice), or press [*] [#] + next desired Group and Field number.

GROUP 0
Field 3

Option Number and Title	Zone LED ON	OFF	Press the respective option number key to toggle the option on/off.
1 Zone 1 Response Time?	☐	☐	ON =Fast, 10mSec; [OFF = Normal, 300mSec]
2 Zone 2 Response Time?	☐	☐	ON =Fast, 10mSec; [OFF = Normal, 300mSec]
3 Zone 3 Response Time?	☐	☐	ON =Fast, 10mSec; [OFF = Normal, 300mSec]
4 Zone 4 Response Time?	☐	☐	ON =Fast, 10mSec; [OFF = Normal, 300mSec]
5 Zone 5 Response Time?	☐	☐	ON =Fast, 10mSec; [OFF = Normal, 300mSec]
6 Zone 6 Response Time?	☐	☐	ON =Fast, 10mSec; [OFF = Normal, 300mSec]

When options 1-6 in field 3 are programmed as desired, press [*] to advance to Field 4 in Group 0 (keypad beeps twice), or press [*] [#] + next desired Group and Field number.

GROUP 0
Field 4

Option Number and Title	Zone LED ON	OFF	Press the respective option number key to toggle the option on/off.
1 Phone System Dial Select?	☐	☐	[ON = Multifreq. (DTMF)]; OFF = Decadic Pulse Dial
2 Radionics/ SESCOA Format?	☐	☐	[ON = Radionics]; OFF = SESCOA
3 30 sec. Delay dialler/alarm sound on Burg.	☐	☐	ON = Provide delay; [OFF = No delay]
4 Restore Report Transmission?	☐	☐	ON = Dynamic, as zones restore; [OFF = At disarm]
5 Keyswitch on Zone 6?	☐	☐	ON = Keyswitch used; [OFF = Zone 6 is security zone]
NOTE: If using keyswitch, Auto-Stay option should be disabled.			If yes, keyswitch tamper protection responds as type 5 zone (trouble day / alarm night). If disarmed, fault of tamper switch causes trouble sound and report to CS (if code programmed). If armed, tamper fault causes an alarm and report to CS (if code programmed).
6 Auto-Stay Option	☐	☐	ON = On; [OFF = Off]
			If yes: When armed AWAY, system automatically changes to STAY mode at the end of exit delay if no Entry/Exit zone has been faulted during exit time.

When options 1-6 in Field 4 are programmed as desired, press [*] [#] + next desired Group and Field number.

PROGRAMMING GROUP 1 (Installer Code, ID, Phone Numbers)

The options in Group 1 are programmed by entering the actual numerical data (Installer Code, Subscriber ID, PABX code and phone numbers) in each field. Refer to the Group Number Identification diagramme in the USING PROGRAMME MODE section to identify Group number displays.

- After selecting a field within Group 1, make the required data entry. Zone 1-4 LEDs display data entries in binary code as each digit is pressed (see the diagramme below for binary weights of each zone LED).
- Zone 6 LED flashes rapidly when at the first digit of a field, then changes to a slow flash (more on than off) after the first digit has been entered and the system is waiting for the second digit to be entered. The LED turns off after the second digit has been entered.
- The Installer Code and Subscriber ID fields require all digits to be entered before continuing. Press [*] to advance after entering all digits.
- The PABX and phone number fields are of variable length, and each digit remains displayed until you press the next digit. If using fewer than the maximum digits for the PABX and phone number fields, enter "A" ([#] + 0) to end the field. Press [*] to advance to the next field.
- For the phone number fields: to enter "*," press [#] + [1]; to enter "#," press [#] + [2]; to enter a 3-second pause, press [#] + [3].
- After completing a field entry, press [*] to advance to the next field in this group.
- The keypad beeps four times when at the end of this group.

Field Numbers and Data Entry Binary Codes for Group 1

Binary Weight (add if ON)
1 --
2 --
4 --

STATUS:
- ARMED
- READY
- INSTANT
- POWER

ZONES:
1
2
3
4
5
6

For Groups 1-9, Zone 1-4 LEDs indicate the binary code for the data being entered.
1 --
2 --
4 --
8 --
off--

Zone 6 LED indicates the first → digit of the data entry when flashing.

Field Number						
	1	2	3	4	5	6
ARMED LED BLINKS						
→	ON	off	ON	off	ON	off
→	off	ON	ON	off	off	ON
→	off	off	off	ON	ON	ON

NOTE for Group 1, Fields 2-6:

Entries of "0" (zero) are displayed as "A" (10). When ending a field with [#] + [0], the "A" (#0) is displayed as "0" (zero; all off).

Begin programming Group 1 by pressing [*] [#] + [1] + [1]. Bracketed [ ] values represent factory default values.

Group 1: Installer Code, ID, Phone Numbers		
Field Number and Title	**Explanation**	**Entries**
1- Installer Code	0-9, Not usable when system is armed	☐ ☐ ☐ ☐ [6145]
	Press [*] to advance to next field after 4th digit entered.	
2- Subscriber ID	0-9, B-F	☐ ☐ ☐ ☐ [FFFF]
	Press [*] to advance to the next field after 4th digit entered.	
3- PABX Access Code	0-9, * #, pause	☐ ☐ ☐ ☐ ☐ ☐ [All As]
	Press [#] + [0] to end field if less than max. digits used. Press [*] to advance to next field.	
4- Download Call Back Number	0-9, * #, pause	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ [All As]
	Press [#] + [0] to end field if less than max. digits used. Press [*] to advance to next field.	
5- Primary Reporting Phone Number	0-9, * #, pause	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ [All As]
	Press [#] + [0] to end field if less than max. digits used. Press [*] to advance to next field.	
6- Secondary Reporting Phone Number	0-9, * #, pause	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ [All As]
	Press [#] + [0] to end field if less than max. digits used. Press [*] to accept entry. Keypad beeps 4 times indicating the end of Group 1.	

When all fields in Group 1 are programmed as desired, press [*] [#] + next desired Group and Field number.

PROGRAMMING GROUPS 2-9 (Zone Types, Comm. Options, Report Codes, Misc. Options)

The options in Groups 2, 3, 4, and 9 are programmed by entering a single digit representing the desired option from a list of options for each field. Groups 5-8 contain 2-digit report code fields. Simply enter the desired 2-digit report code. Refer to the Group Number Identification diagramme in the USING PROGRAMME MODE section to identify Group number displays.

- After selecting a Field within a Group, make the required entry. Zone 1-4 LEDs display data entries in binary code as each digit is pressed (see the diagramme below for binary weights of each zone LED).

- Zone 6 LED flashes rapidly when at the first digit of a field, then changes to a slow flash (more on than off) after the first digit has been entered and the system is waiting for the second digit to be entered. The LED turns off after the second digit has been entered.

- To enter A, B, C, D, E, F hex digits in report code fields, press [#] + [0] for A, [#] + [1] for B, [#] + [2] for C, [#] + [3] for D, [#] + [4] for E, and [#] + [5] for F.

- Press [*] to advance to the next field in this group.

- The keypad beeps four times when at the end of each of these groups.

Field Numbers and Data Entry Binary Codes for Groups 2-9

	STATUS:	Field Number						
		1	2	3	4	5	6	7
		ARMED LED BLINKS						
Binary Weight (add if ON)	ARMED							
1 --	READY	→ ON	off	ON	off	ON	off	ON
2 --	INSTANT	→ off	ON	ON	off	off	ON	ON
4 --	POWER	→ off	off	off	ON	ON	ON	ON

ZONES:

For Groups 1-9, Zone 1-4 LEDs indicate the binary code for the data being entered.

1 --
2 --
4 --
8 --
off--

Zone 6 LED indicates the first → digit of the data entry when flashing.

1
2
3
4
5
6

Group 2: Zone Response Types for Wired Zones

Enter the desired zone response type for each zone as follows:

0 = Zone Not Used	6 = 24-Hour Silent Panic
1 = Entry/Exit	7 = 24-Hour Audible Panic
3 = Perimeter	8 = 24-Hour Auxilliary
4 = Interior/Follower	9 = Fire
5 = 24-Hour Burglary (Tamper)	A or 10 (press [#] + [0]) = Interior w/Delay

Begin programming Group 2 by pressing [*] [#] + [2] + [1]. Brackets indicate factory default values.

Field Number and Title	Explanation	Entries
1- Zone 1 Response Type	0-A as described above. Press [*] to advance. Keypad beeps twice.	☐ [1]
2- Zone 2 Response Type	0-A as described above. Press [*] to advance. Keypad beeps twice.	☐ [3]
3- Zone 3 Response Type	0-A as described above. Press [*] to advance. Keypad beeps twice.	☐ [3]
4- Zone 4 Response Type	0-A as described above. Press [*] to advance. Keypad beeps twice.	☐ [3]
5- Zone 5 Response Type	0-A as described above. Press [*] to advance. Keypad beeps twice.	☐ [4]
6- Zone 6 Response Type	0-A as described above. Press [*] to accept entry. Keypad beeps 4 times.	☐ [9]

When all fields in Group 2 are programmed, press [*] [#] + next desired Group and Field number.

Begin programming Group 3 by pressing [*] [#] + [3] + [1]. Brackets indicate factory default values.

Group 3: Zone Response Types for Panic Keys		
Field Number and Title	**Explanation**	**Entries**
1- Zone 95 Response Type	[1] and [*] keys pressed simultaneously. Press [*] to advance.	☐ [0]
2- Zone 96 Response Type	[3] and [#] keys pressed simultaneously. Press [*] to advance.	☐ [0]
3- Zone 99 Response Type	[*] and [#] keys pressed simultaneously, or AWAY/STAY keys on Infrared Key (keyfob) pressed simultaneously. Press [*] to accept entry. **NOTE:** An Infrared Key cannot be used to turn off a panic alarm. Therefore, do not use zone 99 if a Keypad is not installed.	☐ [6]

When all fields in Group 3 are programmed, press [*] [#] + next desired Group and Field number.

Zones Response Type Definitions

Each zone must be assigned a zone type, which defines the way in which the system responds to faults on that zone.

Type 0: Zone Disabled

Type 1: Entry/Exit Burglary
Assigned to sensors on doors through which entry and exit normally take place when the system is armed.

Type 2: Not used.

Type 3: Perimeter Burglary
Normally assigned to all sensors on exterior doors and windows requiring instant alarm.

Type 4: Interior, Follower
Delayed alarm only if the Entry/Exit zone is faulted first; otherwise, produces an instant alarm. Assigned to zone covering an area such as a foyer or lobby through which one must pass upon entry to reach the keypad to disarm the system. Designed to provide instant intrusion alarm in the event an intruder hides on the premises prior to the system being armed or gains access to the premises through an unprotected area. Automatically bypassed in STAY and INSTANT arming modes.

Type 5: 24-hour Response, Burglary
Can be assigned to a zone containing tamper switches or to a zone covering a "sensitive" area such as a stock room, drug supply room, etc., or other controlled access area where immediate notification of an entry is desired. During the disarmed state, the system will provide latched keypad annunciation (and central station report, if desired) of openings or troubles. During the armed state, violations will initiate an alarm; or can initiate an alarm if the system is either armed or disarmed (see PROGRAMMING THE CONTROL section: Group 0, Field 1, option 5).

Type 6: 24-hour Silent Alarm
This type generally assigned to a zone containing an Emergency button that is designed to initiate an alarm report to the central station, but which produces no local displays or alarm sounds.

Type 7: 24-hour Audible Alarm
This type also assigned to a zone containing an Emergency button, but which will initiate an audible alarm in addition to an alarm report to the central station.

Type 8: 24-hour Auxilliary Alarm (keypad sounder only).
This type assigned to a zone containing a button for use in personal emergencies, or to a zone containing monitoring devices such as water sensors, temperature sensors, etc. Designed to initiate an alarm report to the central station and only provides keypad warning sounds and alarm displays.

Type 9: Supervised Fire (alarm on short/trouble on open).
Fire zone may not be bypassed.

Type 10: Interior w/Delay
Delayed alarm whether or not an Entry/Exit zone is faulted first. Exit delay is present for any arming mode. Automatically bypassed in STAY and INSTANT arming modes.

Begin programming Group 4 by pressing [*] [#] + [4] + [1]. Brackets indicate factory default values.

Group 4: Communication Options		
Field Number and Title	**Explanation**	**Entries**

1- Digicom Report Format

0 = ADEMCO Low Speed (3+1/4+1) - Std.	5 = ADEMCO 4+2 Express
1 = Radionics (3+1/4+1) - Std.	6 = ADEMCO 4+2 Express
2 = ADEMCO Low Speed (4+2)	7 = ADEMCO Contact ID (see Table of Event Codes on page 15)
3 = Radionics (4+2)	8 = ADEMCO Low Speed (3+1/4+1) - Expanded.
4 = Audio Tone (No ACK wait, only alarms)	9 = Radionics (3+1/4+1) - Expanded.

Press [*] to advance.

☐ [7]

2- Reporting Method

Primary No.	Secondary No.
0 = All reports	Back-up, only if can't access primary no.
1 = Alarms, Restores, Cancels	Other Reports
2 = All except Open/Close, Test	Open/Close, Test
3 = Alarms, Restores, Cancels	All reports
4 = All except Open/Close, Test	All reports
5 = All reports	All reports (Dual)

Press [*] to advance.

☐ [0]

3- Test Report Periodicity   0 = No periodic Test Report; 1 = 24 hours (daily); 2 = Weekly; 3 = Monthly   ☐ [0]

The first test report is sent 12 hours after exiting Programme Mode. Press [*] to advance.

4- Maximum No. of Reports   1-15, 0= Unlimited (applies to alarms and alarm restores)   ☐ [0]
   Per Armed Period   where: A=10, B=11, C=12, D=13, E=14, F=15

Press [*] to accept entry. Keypad beeps 4 times indicating the end of the group.

When all fields in Group 4 are programmed, press [*] [#] + next desired Group and Field number.

Report Code Entries

When entering report codes in Groups 5, 6, 7, and 8, use the following entry scheme:

Format	1st Digit	2nd Digit	Commentary
ADEMCO Contact ID	0	0	Report Disabled
	1-9, A-F	0	Report Enabled
3+1/4+1 - Standard	0	0	Report Disabled
	1-9, A-F (A=0)	0	Report Enabled[†]
4+2 and Expanded	0	0	Report Disabled
	1-9, A-F (A=0)	1-9, A-F (A=0)	Report Enabled[†]
	1-9, A-F (A=0)	0	Report Enabled,[†] No expansion

[†] Entry is the digit reported.

Begin programming Group 5 by pressing [*] [#] + [5] + [1]. Brackets indicate factory default values.

Group 5: Wired Zone Alarm Report Codes		
Field Number and Title	**Explanation**	**Entries**
1- Zone 1 Alarm Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [10]
2- Zone 2 Alarm Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [10]
3- Zone 3 Alarm Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [10]
4- Zone 4 Alarm Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [10]
5- Zone 5 Alarm Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [10]
6- Zone 6 Alarm Report Code	See Report Code Entries box above. Press [*] to accept entry (4 beeps).	☐ ☐ [10]

When all fields in Group 5 are programmed, press [*] [#] + next desired Group and Field number.

Begin programming Group 6 by pressing [*] [#] + [6] + [1]. Brackets indicate factory default values.

Group 6: Panic, Duress and AWAY Arm Alarm Report Codes		
Field Number and Title	**Explanation**	**Entries**
1- Zone 95 Alarm Report Code	See Report Code Entries box above (1 and * keys). Press [*] to advance.	☐ ☐ [00]
2- Zone 96 Alarm Report Code	See Report Code Entries box above (3 and # keys). Press [*] to advance.	☐ ☐ [00]
3- Zone 99 Alarm Report Code	See Report Code Entries box above (* and # keys). Press [*] to advance.	☐ ☐ [00]
4- Duress (zone 92) Alarm Report Code	See Report Code Entries box above. Press [*] to advance. (duress report activated by entry of user 06 security code)	☐ ☐ [00]
5- Away/Stay Close Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [0] [0] Away Stay
6- Opening Report Code	See Report Code Entries box above. Press [*] to advance.	☐ [0]
7- Exit Error Report Code Enable	See Report Code Entries box above. (Must use Contact ID reporting.) Press [*] to accept entry. Keypad beeps 4 times.	☐ [0]

When all fields in Group 6 are programmed, press [*] [#] + next desired Group and Field number.

Begin programming Group 7 by pressing [*] [#] + [7] + [1]. Brackets indicate factory default values.

Group 7: System Report Codes		
Field Number and Title	**Explanation**	**Entries**
1- Bypass Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
2- AC Loss Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
3- Low Battery Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
4- Trouble Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
5- Keypad Tamper Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
6- Test Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
7- Intrusion Verifier Report Enable	See Report Code Entries box above. Two burglary alarms within a 45-minute period (Must use Contact ID reporting.) Press [*] to accept entry. Keypad beeps 4 times.	☐ [0]

When all fields in Group 7 are programmed, press [*] [#] + next desired Group and Field number.

Begin programming Group 8 by pressing [*] [#] + [8] + [1]. Brackets indicate factory default values.

Group 8: System Restore Report Codes		
Field Number and Title	**Explanation**	**Entries**
1- Alarm Restore Report Code	See Report Code Entries box above. Press [*] to advance. In expanded formats and 4+2, 2nd digit is the zone number.	☐ [0]
2- Trouble Restore Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
3- Bypass Restore Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
4- AC Loss Restore Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
5- Low Battery Restore Report Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
6- Keypad Tamper Restore Rprt Code	See Report Code Entries box above. Press [*] to advance.	☐ ☐ [00]
7- Cancel Report Code	See Report Code Entries box above. Press [*] to accept entry. 4 beeps.	☐ ☐ [00]

When all fields in Group 8 are programmed, press [*] [#] + next desired Group and Field number.

Begin programming Group 9 by pressing [*] [#] + [9] + [1]. Brackets indicate factory default values.

Group 9: Miscellaneous Options (In Group 9, A=10, B=11, C=12, D=13, E=14, F=15)		
Field Number and Title	**Explanation**	**Entries**
1- Alarm Timeout (minutes)	1-15, 0 = No timeout; Press [*] to advance.	☐ [3]
	Selection overridden for fire alarms if no timeout is selected in Group 0 Field 2	
2- Entry Delay (increments of 10 seconds)	1-15 (entry times 10 seconds, or 10-150 secs); 0= No delay	☐ [3]
	(Exit Delay = Entry Delay + 15 secs.)	
	Press [*] to advance.	
3- Number of Rings to Answer Downloader	1-14, 15=Answering Machine/Fax Bypass; 0 = Disabled	☐ [4]
	Press [*] to advance.	
4- Programmable Output 1 Options	0 = Disabled	☐ [0]
	1 = Mimic keypad sounder	
	2 = Resettable 4-wire smoke detector power (connect to low side)	
	3 = Output active during Entry/Exit time	
	4 = Keyswitch Green LED (Ready/Not Ready)	
	5 = Memory of alarm strobe	
Prog. Out 2 = Red LED (System Status)	6 = [User Code] + [#] + [9] or IR keyfob to toggle output on or off	
On = Armed AWAY	7 = [User Code] + [#] + [9] or IR keyfob to turn output on for 5 seconds	
Pulse = Armed STAY	8 = [#] + [9] or IR keyfob to toggle output on or off	
Flashing = Alarm	9 = [#] + [9] or IR Keyfob to turn output on for 5 seconds	
Off = Disarmed	10 = Fail to communicate	
	Press [*] to accept entry. Keypad beeps 4 times.	

When all fields in Group 9 are programmed, press [*] [#] + next desired Group and Field number, or exit Programming Mode.

VISTA-5 TABLE OF CONTACT ID EVENT CODES	
110	Fire Alarm
121	Duress
122	Alarm, 24 hour Silent
123	Alarm, 24 hour Audible
131	Alarm, Perimeter
132	Alarm, Interior
134	Alarm, Entry/Exit
135	Alarm, Day/Night (Tamper) and Keypad Tamper
139	Alarm, Intrusion Verifier
150	Alarm, 24 hour auxiliary
301	AC Mains Power
302	Low System Battery/Battery Test Failure
305	System Reset
341	Keypad Tamper when disarmed
373	Fire Loop Trouble
374	Exit Error Alarm
380	Keyswitch Tamper/Trouble, Day/Night (Tamper)
401	Armed/Disarmed AWAY/MAXIMUM (Quick arm is reported as User 00)
406	Cancel by User
407	Remote Arm/Disarm (Downloading-automatically enabled when 401 is enabled)
408	Quick Arm
409	Keyswitch AWAY Arm/Disarm (Automatically enabled when 401 AND keyswitch is enabled) & also for keyswitch STAY arm (if 441 AND keyswitch is enabled)
441	Armed/Disarmed STAY/INSTANT (Quick arm is reported as User 00)
570	Bypass
601	Manually Triggered Test (Automatically enabled when 602 is enabled)
602	Periodic Test

Special Functions

While in Programming Mode, entry of:

[*] [#] + 971 = Initialise/Clear/ Reset Central Station ID for downloading

[*] [#] + 972 = Loads factory defaults for all programmed data for Groups 0-9.

Remote Programming And Control

VISTA-5 can be remotely programmed from an IBM compatible personal computer (PC).

Programming VISTA-5 from a remote location is protected against compromise by someone attempting to defeat the system, using 3 levels of security protection:
1. **Security Code Handshake:** An 8-digit central station ID code must be matched between VISTA-5 and the central station.
2. a. **Office-initiated Remote Programming:** The operator calls the site from your office to initiate the download call. The control hangs up and then calls back the PC via the pre-programmed telephone number. The unit can then be uploaded, downloaded, or controlled from your office.
   b. **Site-Initiated Remote Programming:** The installer or subscriber calls the central station from the subscriber premises (by pressing Master Code + # + 1) and all parameters are downloaded via the phone lines using a personal computer.
3. **Data Encryption:** Data passed between the central station and VISTA-5 is encrypted for security so that it is very difficult for a foreign device tapped into the phone line to take over communication and substitute system-compromising information.

Equipment Required
At the premises: VISTA-5 and 6145 Keypad.
At the central station (or the installer's office/home):
An IBM compatible PC, a Hayes brand Smartmodem 1200 (Level 1.2 or higher, external, or Level 1.1 or higher, internal style; or a Hayes brand Optima 24 Plus Fax 96 modem), V-LINK Downloading Software Diskette Rev. 3 or higher (or Compass Downloader for Windows), and appropriate interconnecting cables.

Programming
The downloading system can perform many functions when in communication with the control unit. Besides uploading and downloading, the status of the system can be observed and various commands can be initiated, as follows:
- Arm the system in the AWAY Mode; disarm the system.
- Bypass a zone.
- Force the system to accept a new programme download.
- Shut down communication (dialler) functions (nonpayment of monitoring fees in an owned system).
- Shut down all security system functions (non-payment for a leased system).
- Inhibit local keypad programming (prevents account takeover).
- Command the system to upload a copy of its resident programme to the office.
- Read: arming status, ac power status, lists of faulted zones, bypassed zones, zones currently in alarm, and zones currently in trouble.

Notes: After the control and the PC have established valid communication, the system will remain active except when a programme download data transfer is taking place. If an alarm does occur, download communication will be broken off, and the proper dialler reports will be sent to the central station.

Remote Programming Advisory Notes:
Alarm and trouble reporting are disabled during the time that the system and the central station are linked to each other following a valid exchange of codes. Reporting occurs after the link is broken.
Keypad entries are processed during the same time interval cited above.
Should an alarm transpire during the remote programme interval, the system would respond to the alarm condition.
A copy of the programme downloaded may be produced from the IBM compatible PC, using the product's internal report generator, when an optional printer is connected.
Programme download time is less than 45 seconds for a complete programme.

Refer to the User's Manual for procedures in system operation. The following summarises these functions.

SECURITY CODES

Security codes are used when performing system functions. The system supports up to 6 security codes and up to 4 infrared keys, which can also be used to perform system functions. Each code or infrared key is assigned a user number as follows:

User 1 = Installer Code (programmed by the installer while in Programming Mode)
User 2 = Master Code (assigned by the installer and can be changed by master user)
Users 3-6 = Secondary User Codes (assigned by the master user); User 6 not available as normal Secondary Code if duress reporting is enabled (see User 6 below)
User 6 = Duress Code (if duress reporting is enabled, use of this code will perform system functions, but will also automatically send a duress report); if duress report is not enabled, User 6 is a normal secondary user
Users 11-14 = Infrared Keys (assigned by the master user)

All security codes, master and secondary, permit access to the system for arming, disarming, etc.

The Installer Code permits re-entry into the Programming Mode and also allows access to the normal functions of the system when the system is disarmed. It is not usable when the system is armed in any arming mode, unless it was the code used to arm the system.
If the Installer exits Programming Mode with:

[*][#]98 – installer cannot re-enter Programming Mode with Installer Code
[*][#]99 – installer can re-enter Programming Mode with Installer Code

To assign the Master Code (by installer): Installer Code + CODE Key + 02 (User #2)+ Master Code
The keypad will beep three times when the Master Code has been successfully entered.

The Master Security Code can be used to assign up to four Secondary Codes; it can also be used to remove all Secondary Codes from the system (individually).
To assign Secondary Security Codes:
Master Code + CODE key + 2-digit User Number (03-06) + Secondary Code
The system will emit a single beep when each Secondary Code has been successfully entered.

NOTE: When a Secondary Code is inadvertently repeated for different users, the lower user number will take priority.
To delete Secondary Security Codes: Master Code + CODE key + User No. (03-06, 11-14) + wait 5 sec.
The keypad will beep once for users 03-06 or the LEDs will flash for keyfobs 11-14, confirming the deletion.
To change the Master code: Installer Code + CODE Key + 02 + New Master Code   **OR**
Master Code + CODE Key + 02 + New Master Code + New Master Code again

TO ASSIGN AN INFRARED KEY, DO THE FOLLOWING:

Enter the Master Code + CODE key + User Number (11-14), then press any button on the infrared key being assigned within 30 seconds (point the key at the infrared keypad or receiver when pressing a button).

OTHER FEATURES

Keypad Lockout Feature (see programming Group 0, Field 1, option 3)
There is the capability to lock out keypad entry for 15 minutes, which protects against keypad code tampering. This feature, if enabled, activates after 20 keystrokes are entered in a 15-minute or less period without a valid command sequence being entered.
Command Functions: User Code + [#] + [9]
Activates the device/function assigned to prog. output 1 (options 6-9).
Zone LED Indications:
slow equal on/off blink = trouble in Fire or Tamper zone
short on flash = zone bypassed manually
steady on = zone faulted if system disarmed
Armed LED Indications:
steady on = system armed AWAY
pulse on = system armed STAY
flashing= alarm condition
Ready LED lit but cannot arm or cannot enter Programme Mode = faulted silent panic zone
Ready LED not lit, no zone LEDs lit = keypad tamper switch activated

User Operating Functions

Arm All Protection:	Code + [2] AWAY
Arm Perimeter Only:	Code + [3] STAY
Arm Perimeter, No Delay:	Code + [7] INSTANT
Disarm System:	Code + [1] OFF
Disarm Fire Alarm:	Press [1] OFF to silence
then Code + [1] OFF twice to clear display	
Bypass a Zone:	Code + [6] + zone no.
Quick Bypass (if prog.):	Code + [6] + [#]
Chime Mode On/Off:	Code + [9] CHIME
Panic Alarms:	[*] [#] at same time
(if programmed)	[*] [1] at same time
(if programmed)	[#] [3] at same time
Test Mode On:	Code + [5] TEST
Test Mode Off:	Code + [1] OFF

Ready LED Indications:
steady on = system ready to be armed
blinking = communication failure
off = system not ready to be armed

Testing The System

After installation is completed, test the Security System carefully.

1. With the System in the disarmed state, check that all zones are intact. If **READY** LED is not lit, check the zone LEDs to locate the faulted zone(s). Restore faulted zone(s) if necessary, so that **READY** LED is lit. Fault and restore every sensor individually to assure that it is being monitored by the system.

2. Enter the **security code** and press the **TEST** key. 4 beeps will sound from the keypad, and the external sounder (if used) should sound for 1 second and then turn off. A test report should be transmitted (if programmed) to the central station immediately. If the backup battery is discharged or missing, the external sounder may still turn on and a low battery and test report will be transmitted. The keypad will beep once every 40 seconds to indicate that the system is in the Test Mode.

   Each zone that is activated during the Test Mode will result in a keypad emitting 4 beeps and illuminating the zone LED for the activated zone. To exit from the Test Mode, enter [code] + [OFF].

   In order to test all of the keypad LEDs, press keys 4, 5, and 6 simultaneously. All LEDs should turn on. This test can be done at any time and in any mode of the system.

The system will send a message to the central station during the following tests. Notify the central station that a test will be in progress.

3. Arm the system and fault one or more zones. After 30 seconds (if optional dialler delay is selected), silence alarm sound(s) by entering the **code** and pressing **OFF**. Check Entry/Exit delay zones.

4. Check the keypad-initiated alarm by pressing the Panic key pairs – **[*]** and **[#]**. If the system has been programmed for audible emergency, the console will emit a steady alarm sound, and the **ALARM** LED will flash on and off. Silence the alarm by entering the **security code** and pressing **OFF**.

   If the system has been programmed for silent emergency, there will be no audible alarms or displays, but a report will be sent to the central station.

5. Notify the central station that all tests are finished, and verify results with them.

NOTES

NOTES

Specifications

VISTA-5 SECURITY CONTROL

Physical: 254mm W, 254mm H, 76mm D

Electrical: VOLTAGE INPUT: 16.5VAC (from 25VA mains transformer (ADEMCO No. 1321 in 120VAC regions)
RECHARGEABLE BACKUP BATTERY: 12VDC, 6AH max. (Gel type)
ALARM SOUNDER: 12V, 2.0 Amp output can drive 12V sounders
AUXILLIARY POWER OUTPUT: 12VDC, 500mA max.
STANDBY TIME: To determine total standby battery load, add 100mA to total Aux. Power output and remote keypad currents.
FUSES: Battery (3A) No. 90-12; Aux. Power (1A) No. 90-14

Communication:

FORMATS SUPPORTED:
ADEMCO Express, 10 characters/sec, DTMF (TouchTone) Data Tones, 1400/2300 Hz ACK, 1400 Hz KISSOFF, 4+2 format.
ADEMCO Low Speed, 10 pulses/sec, 1900 Hz Data Tone, 1400 Hz ACK/KISSOFF, 3+1/4+1/4+2 format
SESCOA/Radionics 20 pulses/sec. 1800 Hz Data Tone, 2300 Hz ACK/KISSOFF. All formats report 0-9, B-F, 3+1/4+1/4+2 format.
ADEMCO Contact ID, 10 characters/sec. DTMF (TouchTone) Data tones, 1400/2300 Hz ACK, 1400 Hz KISSOFF, 4+9 format.
Line Seize: Double Pole

ACCESSORIES

No. 1321 16.5VAC, 25VA Plug-In Transformer for 120VAC primary power.
No. 6145 Series Remote Keypad
No. 6145IR-LL Remote Keypad w/IR Receiver
No. 6146IR IR receiver
No. INF-TX IR transmitter
No. 4146 Keyswitch

6145/6145IR REMOTE KEYPAD

Physical: 118mm W, 116mm H, 21mm D

Electrical: Voltage Input: 12VDC
Current Drain: 25mA when disarmed (6145), 36mA (6145IR-LL)

Interface Connections:

Terminal 1: Data In from Control (term. 7 on VISTA-5)
Terminal 2: 12VDC input (+) aux pwr (term. 5 on VISTA-5)
Terminal 3: Ground (term. 4 on VISTA-5)
Terminal 4: Data Out to Control (term. 6 on VISTA-5)

6146IR IR RECEIVER

Physical: 102mm W, 66mm H, 23mm D.

Electrical: Voltage Input: 12VDC
Current Drain: 9mA

Interface Connections:

Terminal 1: Data In from Control (term. 7 on VISTA-5)
Terminal 2: 12VDC input (+) aux pwr (term. 5 on VISTA-5)
Terminal 3: Ground (term. 4 on VISTA-5)
Terminal 4: Data Out to Control (term. 6 on VISTA-5)

WARNING!
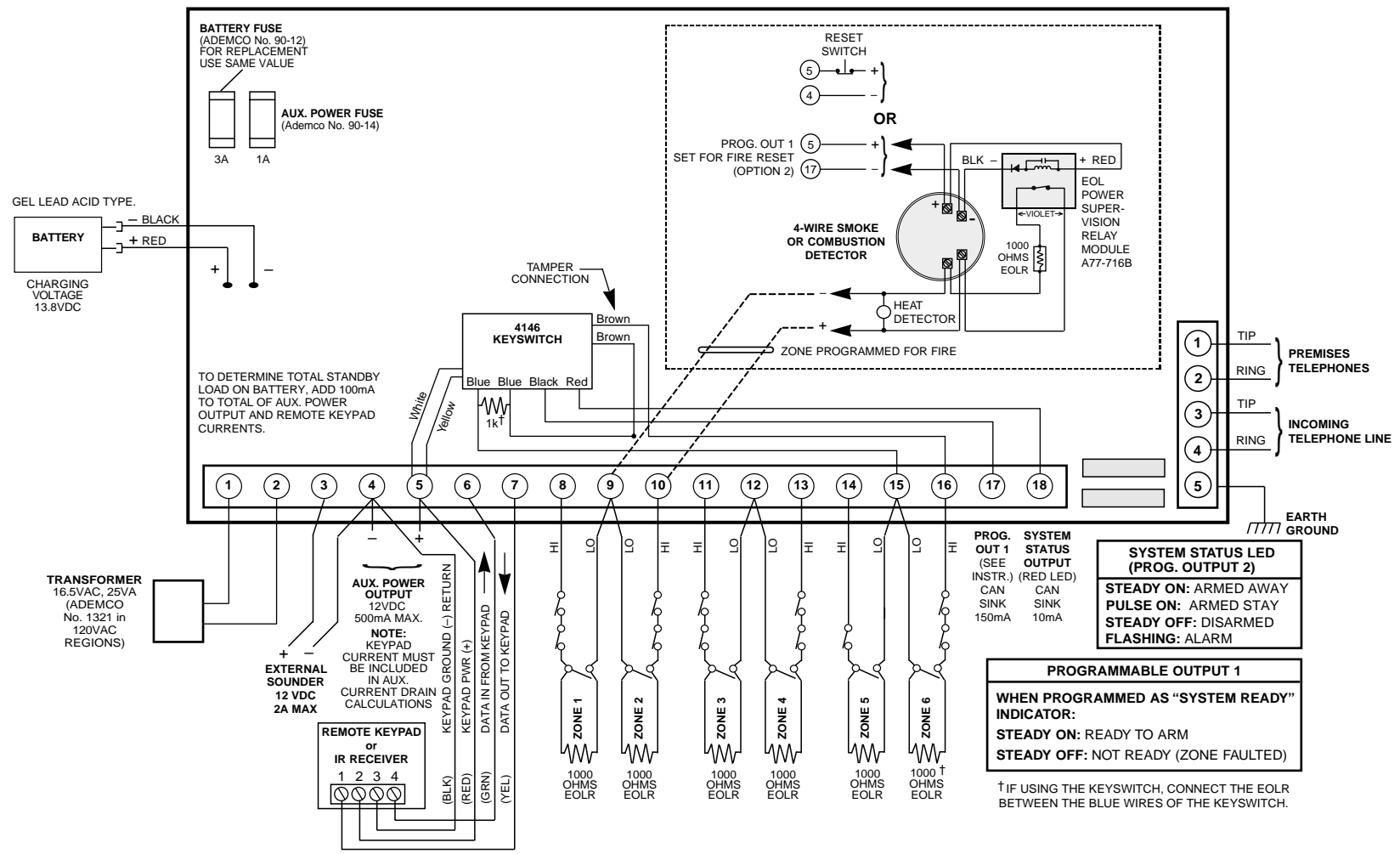**THE LIMITATIONS OF THIS ALARM SYSTEM**

While this System is an advanced security system, it does not offer guaranteed protection against burglary, fire or other emergency. Any alarm system, whether commercial or residential, is subject to compromise or failure to warn for a variety of reasons. For example:

- Intruders may gain access through unprotected openings or have the technical sophistication to bypass an alarm sensor or disconnect an alarm warning device.

- Intrusion detectors (e.g., passive infrared detectors), smoke detectors, and many other sensing devices will not work without power. Battery-operated devices will not work without batteries, with dead batteries, or if the batteries are not put in properly. Devices powered solely by AC will not work if their AC power supply is cut off for any reason, however briefly.

- A user may not be able to reach a panic or emergency button quickly enough.

- While smoke detectors have played a key role in reducing residential fire deaths, they may not activate or provide early warning for a variety of reasons in as many as 35% of all fires. Some of the reasons smoke detectors used in conjunction with this System may not work are as follows. Smoke detectors may have been improperly installed and positioned. Smoke detectors may not sense fires that start where smoke cannot reach the detectors, such as in chimneys, in walls, or roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level of a residence or building. A second floor detector, for example, may not sense a first floor or basement fire. Finally, smoke detectors have sensing limitations. No smoke detector can sense every kind of fire every time. In general, detectors may not always warn about fires caused by carelessness and safety hazards like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches, or arson. Depending on the nature of the fire and/or location of the smoke detectors, the detector, even if it operates as anticipated, may not provide sufficient warning to allow all occupants to escape in time to prevent injury or death.

- Passive Infrared Motion Detectors can only detect intrusion within the designed ranges as diagrammed in their installation manual. Passive Infrared Detectors do not provide volumetric area protection. They do create multiple beams of protection, and intrusion can only be detected in unobstructed areas covered by those beams. They cannot detect motion or intrusion that takes place behind walls, ceilings, floors, closed doors, glass partitions, glass doors, or windows. Mechanical tampering, masking, painting or spraying of any material on the mirrors, windows or any part of the optical system can reduce their detection ability. Passive Infrared Detectors sense changes in temperature; however, as the ambient temperature of the protected area approaches the temperature range of 32° to 40°C, the detection performance can decrease.

- Alarm warning devices such as sirens, bells or horns may not alert people or wake up sleepers if they are located on the other side of closed or partly open doors. If warning devices are located on a different level of the residence from the bedrooms, then they are less likely to waken or alert people inside the bedrooms. Even persons who are awake may not hear the warning if the alarm is muffled by noise from a stereo, radio, air conditioner or other appliance, or by passing traffic. Finally, alarm warning devices, however loud, may not warn hearing-impaired people.

- Telephone lines needed to transmit alarm signals from a premises to a central monitoring station may be out of service or temporarily out of service. Telephone lines are also subject to compromise by sophisticated intruders.

- Even if the system responds to the emergency as intended, however, occupants may have insufficient time to protect themselves from the emergency situation. In the case of a monitored alarm system, authorities may not respond appropriately.

- This equipment, like other electrical devices, is subject to component failure. Even though this equipment is designed to last as long as 20 years, the electronic components could fail at any time.

The most common cause of an alarm system not functioning when an intrusion or fire occurs is inadequate maintenance. This alarm system should be tested weekly to make sure all sensors and transmitters are working properly. The security keypad (and remote keypad) should be tested as well.

Installing an alarm system may make the owner eligible for a lower insurance rate, but an alarm system is not a substitute for insurance. Homeowners, property owners and renters should continue to act prudently in protecting themselves and continue to insure their lives and property.

We continue to develop new and improved protection devices. Users of alarm systems owe it to themselves and their loved ones to learn about these developments.

BATTERY FUSE
(ADEMCO No. 90-12)
FOR REPLACEMENT
USE SAME VALUE

AUX. POWER FUSE
(Ademco No. 90-14)

3A   1A

GEL LEAD ACID TYPE.

BATTERY
— BLACK
+ RED

+   —

CHARGING
VOLTAGE
13.8VDC

RESET
SWITCH

(5) + }
(4) —

OR

PROG. OUT 1 (5) + }
SET FOR FIRE RESET
(OPTION 2) (17) —

BLK —   + RED

EOL
POWER
SUPER-
VISION
RELAY
MODULE
A77-716B

←VIOLET→

1000
OHMS
EOLR

**4-WIRE SMOKE
OR COMBUSTION
DETECTOR**

+   —

TO DETERMINE TOTAL STANDBY
LOAD ON BATTERY, ADD 100mA
TO TOTAL OF AUX. POWER
OUTPUT AND REMOTE KEYPAD
CURRENTS.

TAMPER
CONNECTION

**4146
KEYSWITCH**

Brown
Brown

Blue Blue Black Red

White
Yellow

1k†

HEAT
DETECTOR

ZONE PROGRAMMED FOR FIRE

(1) TIP
(2) RING

**PREMISES
TELEPHONES**

(3) TIP
(4) RING

**INCOMING
TELEPHONE LINE**

(5)

EARTH
GROUND

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18)

TRANSFORMER
16.5VAC, 25VA
(ADEMCO
No. 1321 in
120VAC
REGIONS)

—   +

**AUX. POWER
OUTPUT**
12VDC
500mA MAX.

NOTE:
KEYPAD
CURRENT MUST
BE INCLUDED
IN AUX.
CURRENT DRAIN
CALCULATIONS

KEYPAD GROUND (–) RETURN
KEYPAD PWR (+)
DATA IN FROM KEYPAD
DATA OUT TO KEYPAD

+   —

**EXTERNAL
SOUNDER
12 VDC
2A MAX**

HI LO LO HI HI LO HI HI LO LO HI

ZONE 1 ZONE 2 ZONE 3 ZONE 4 ZONE 5 ZONE 6

1000 1000 1000 1000 1000 1000 †
OHMS OHMS OHMS OHMS OHMS OHMS
EOLR EOLR EOLR EOLR EOLR EOLR

**REMOTE KEYPAD
or
IR RECEIVER**

1 2 3 4

(BLK) (RED) (GRN) (YEL)

**PROG.
OUT 1**
(SEE
INSTR.)
CAN
SINK
150mA

**SYSTEM
STATUS
OUTPUT**
(RED LED)
CAN
SINK
10mA

**SYSTEM STATUS LED
(PROG. OUTPUT 2)**

STEADY ON: ARMED AWAY
PULSE ON: ARMED STAY
STEADY OFF: DISARMED
FLASHING: ALARM

PROGRAMMABLE OUTPUT 1

**WHEN PROGRAMMED AS "SYSTEM READY"
INDICATOR:**

STEADY ON: READY TO ARM
STEADY OFF: NOT READY (ZONE FAULTED)

† IF USING THE KEYSWITCH, CONNECT THE EOLR
BETWEEN THE BLUE WIRES OF THE KEYSWITCH.

VISTA-5
SUMMARY OF CONNECTIONS

®**ADEMCO**

ALARM DEVICE MANUFACTURING COMPANY
A DIVISION OF PITTWAY CORPORATION
165 Eileen Way, Syosset, NY 11791
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