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# *VISTA-20SE*

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2-PARTITIONED  
SECURITY SYSTEM

## **PROGRAMMING FORM**

**® ADEMCO**

Principal changes between the VISTA-20SE and  
the former VISTA-20 are indicated by margin lines.

**Local programming requires the use of a 2-line Alpha keypad connected to partition 1 keypad terminals on the control.**

NOTE: For UL installations, the system may be configured as a single partition only.

Field	Function	Programmed Values	[ ] = Default Value
<b>SYSTEM SETUP (*20–*29)</b>			
*20	INSTALLER CODE	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> [4 1 1 2] Enter 4 digits, 0–9	
*21	QUICK ARM ENABLE	<input type="checkbox"/> <input type="checkbox"/> [0] Part. 1† Part.2† 0 = no; 1 = yes	
*22	RF SYSTEM	<input type="checkbox"/> [0] 0 = none; 1 = 5800 (5881/5882)	
*23	FORCED BYPASS	<input type="checkbox"/> <input type="checkbox"/> [0] [0] Part. 1† Part. 2† 0 = none; 1 = bypass open zones "0". for UL installations.	
*24	RF HOUSE ID CODE	<input type="text"/> <input type="text"/> [0][0] 00 = disable all wireless keypad usage; 01–31 = using 5827 keypad; Partition 2 RF House ID = Partition 1 House ID + 1	
*25	WIRED ZONE EXPANSION	<input type="checkbox"/> † [0] 0 = none; 1 = 4219; 2 = 4229; 3 = 4204	
*26	CHIME BY ZONE	<input type="checkbox"/> † [0] 0 = no; 1 = yes (program zones to chime on zone list 3)	
*27	X–10 HOUSE CODE	<input type="checkbox"/> [0] 0 = A; 1 = B, 2 = C, 3 = D, 4 = E, 5 = F, 6 = G, 7 = H, 8 = I, 9 = J, #10 = K, #11 = L, #12 = M, #13 = N, #14 = O, #15 = P	
*28	PHONE MODULE ACCESS CODE	<input type="text"/> <input type="text"/> [00] (Partition 1 only) 1st digit: enter 1–9; 2nd digit: enter # + 11 for "*", or # + 12 for "#". Entering 0 for either digit disables code.	
*29	OUTPUT TO LONG RANGE RADIO	<input type="checkbox"/> [0] 0 = disable; enable = Trouble code 1–9, B (# +11), C (# + 12), D (# + 13), E (# + 14), or F (# + 15). The 2nd digit of Trouble Dialer Report is automatically entered from field * 60. "0" for UL installations.	
<b>ZONE SOUNDS AND TIMING (*31–*39)</b>			
*31	SINGLE ALARM SOUNDING/ZONE	<input type="checkbox"/> † [0] 1 = yes; 0 = no; "0" for UL installations.	
*32	FIRE SOUNDER TIMEOUT	<input type="checkbox"/> † [0] 0 = timeout; 1 = no timeout	
*33	ALARM BELL TIMEOUT	<input type="checkbox"/> † [1] 0 = none; 1=4 min; 2=8 min; 3=12 min; 4 = 16 min; "1" (4 min.) minimum for UL.	
*34	EXIT DELAY	<input type="text"/> <input type="text"/> [70] [70] Part. 1† Part. 2† 00-99 = exit delay time for each partition	
*35	ENTRY DELAY 1 (zone type 01)	<input type="text"/> <input type="text"/> [30] [30] Part. 1 † Part. 2 † 00-99 = entry delay 1 time for each partition; 20 seconds max. for UL installations	

† Entry of a number other than one specified will give unpredictable results.

- \*36** ENTRY DELAY 2 (zone type 02)   [60] [60]  
 Part. 1 † Part. 2 † 00-99 = entry delay 2 time for each partition; 50 seconds max. for UL installations
- \*37** AUDIBLE EXIT WARNING   [1] [1]  
 Part. 1 † Part. 2 † 0 = no; 1 = yes
- \*38** CONFIRMATION OF ARMING DING   [0] [0]  
 Part. 1 † Part. 2 †  
 0 = no; 1 = yes (wired keypads and RF); 2 = yes, RF only
- \*39** POWER UP IN PREVIOUS STATE  † [1]  
 0 = no; 1 = yes; "1" for UL installations

**DIALER PROGRAMMING (\*40–\*53)**

In fields \*40, \*41, \*42, enter up to the number of digits shown. Do not fill unused spaces. Enter 0–9; #+11 for '\*'; #+12 for '#'; #+13 for a pause.

- \*40** PABX ACCESS CODE   
 Enter 6 digits. If fewer than 6 digits are entered, exit by pressing \* (and press 41, if entering next field). To clear entries from field, press \*40\* .

- \*41** PRIMARY PHONE No.   
 Enter up to 16 digits; Do not fill unused spaces. If fewer than 16 digits entered, exit by pressing \* (and press 42, if entering next field). To clear entries from field, press \* 41\* .

- \*42** SECONDARY PHONE No.   
 Enter up to 16 digits; Do not fill unused spaces. If fewer than 16 digits entered, exit by pressing \* (and press 43, if entering next field). To clear entries from field, press \*42\* .

- \*43** PRIMARY SUBS ACCT # (Part. 1)
- \*44** SECONDARY SUBS ACCT # (Part. 1)
- \*45** PRIMARY SUBS ACCT # (Part. 2)
- \*46** SECONDARY SUBS ACCT # (Part. 2)

**For fields \*43 - \*46:**

Enter 0–9; #+11 for B; #+12 for C; #+13 for D; #+14 for E; [#+15 for F]. Enter \* as 4th digit, if 3+1 dialer reporting is to be used. If only 3 digits used, exit by pressing \* (and press next field).

To clear entries from field, press \*43\* , \*44\* , \*45\* , or \*46\* .Examples:

- For Acct. **1234**, enter:
- For Acct. **B234**, enter:
- For Acct. **123**, enter:

**NOTE:** If using the paging feature, do not enter a leading 0 in the subscriber account number, and do not use digits A-F anywhere in the number. Some paging systems provide voice mail capability, which is activated by a leading 0 in the message.

- \*47** PHONE SYSTEM SELECT  † [1]  
 If Cent. Sta. *IS NOT* on a WATS line: 0 = Pulse Dial; 1 = Tone Dial; if Cent. Sta. *IS* on a WATS line: 2 = Pulse Dial ; 3 = Tone Dial.

- \*48** REPORT FORMAT   [7] [0]  
 Primary Secondary

- |   |  |
|---|--|
| <b>0</b> = 3+1, 4+1 ADEMCO L/S STANDARD | <b>6 or undefined</b> = 4+2 ADEMCO EXPRESS |
| <b>1</b> = 3+1, 4+1 RADIONICS STANDARD  | <b>7</b> = ADEMCO CONTACT ID REPORTING     |
| <b>2</b> = 4+2 ADEMCO L/S STANDARD      | <b>8</b> = 3+1, 4+1 ADEMCO L/S EXPANDED    |
| <b>3</b> = 4+2 RADIONICS STANDARD       | <b>9</b> = 3+1, 4+1 RADIONICS EXPANDED     |

† Entry of a number other than one specified will give unpredictable results.

**\*49 SPLIT/DUAL REPORTING**

 [0]

0 = Disable (Backup report only)

**TO PRIMARY PHONE No.**

- 1 = Alarms, Restore, Cancel
- 2 = All except Open/Close, Test
- 3 = Alarms, Restore, Cancel
- 4 = All except Open/Close, Test
- 5 = All

**TO SECONDARY PHONE No.**

- Others
- Open/Close, Test
- All
- All
- All

\*\* A 10-digit code is sent to the pager consisting of a 4-digit subscriber number, a 3-digit event code, and a 3-digit user or zone number. See Installation Instructions for an explanation of the 10-digit code.

**TO PRIMARY PHONE No.**

- 6 = All except Open/Close
- 7 = All reports
- 8 = All reports
- 9 = All except Open/Close

**TO PAGING No. \* (Secondary)**

- \*\* Alarms, Open/Close, Troubles
- \*\* Alarms, Troubles
- \*\* Alarms, Open/Close, Troubles
- \*\* Alarms, Open/Close for users 5-25 (users 5-16 or wireless button zones 10-25), Troubles

\* Can only be used if primary reporting format is Ademco Contact ID.

**\*50 15 SEC DIALER DELAY (BURG)**

 † [0]

0 = no; 1 = yes; "0" for UL installations

**\*51 PERIODIC TEST REPORT**

 † [0]

0 = none; 1 = 24 hours; 2 = weekly; 3 = 30 days (Enter Test Code in field \* 64. Reports with Partition 1 subscriber No.)

**\*52 TEST REPORT OFFSET**

 † [2]

0 = 24 hour; 1 = 6 hours; 2 = 12 hours; 3 = 18 hours (Time to 1st report from programming or downloading).

**\*53 SESCOA/RADIONICS SELECT**

 [0]

0 = Radionics (0-9, B-F reporting); 1 = SESCOA (0-9 only reporting). Select 0 for all other formats.

† Entry of a number other than one specified will give unpredictable results.

**\*56 ZONE ASSIGNMENT/ALARM REPORT CODES** —This field is an interactive mode. Fill in the required data on the worksheet below (and on next page) and follow the programming procedure in the installation manual.

**ZONES ON CONTROL:**

*See explanation of headings on next page .*

ZONE RESPONSE DESCRIPTION	ZONE		ZONE	PART'N	ALARM RPT CODE	INPUT	TIME (RT)
	No. (Zn)		TYPE (ZT)	No. (P)	(Hex) (RC)	TYPE (In)	
Wired Zone 1*	0	1				HW	
Wired Zone 2	0	2				HW	
Wired Zone 3	0	3				HW	
Wired Zone 4	0	4				HW	
Wired Zone 5	0	5				HW	
Wired Zone 6	0	6				HW	
Wired Zone 7	0	7				HW	
Wired Zone 8**	0	8				HW	
Expansion Module Supervision	0	9	0 5	Both		—	—
Duress	9	2	— —	Both		—	—
Console Panic (1 & *, or A)	9	5		Both		—	—
Console Panic (3 & #, or C)	9	6		Both		—	—
Console Panic (* & #, or B)	9	9		Both		—	—

\*Zone 1 can be used as a 2-wire Fire zone.

\*\*Zone 8 can be used as a Glassbreak zone.



**TO PROGRAM SYSTEM STATUS, & RESTORE REPORT CODES (\*59–\*76, & \*89):**

**With a 3+1 or 4+1 Standard Format:** Enter a code in the *first* box: 1–9, 0, B, C, D, E, or F. Enter "#+10" for 0, "#+11" for B, "#+12" for C, "#+13" for D, "#+14" for E, "#+15" for F.

A "0" (*not* "#+10") in the *first* box will disable a report.  
 A "0" (*not* "#+10") in the *second* box will result in automatic advance to the next field when programming.

**With an Expanded or 4+2 Format:** Enter codes in *both* boxes (1st and 2nd digits) for 1–9, 0, or B–F, as described above.

A "0" (*not* "#+10") in the *second* box will eliminate the expanded message for that report.

A "0" (*not* "#+10") in *both* boxes will disable the report.

**With Ademco Contact ID Reporting:** Enter any digit (other than "0") in the *first* box, to enable zone to report (entries in the *second* boxes will be ignored).

A "0" (*not* "#+10") in the *first* box will disable the report.

Examples:

For Code **3** (single digit), enter:

For Code **3 2** (two digits), enter:

For Code **B 2** (Hexadecimal), enter:

**SYSTEM STATUS REPORT CODES (\*59–\*68)**

Default for all report codes = [00]

- \*59 EXIT ERROR REPORT CODE
- \*60 TROUBLE REPORT CODE
- \*61 BYPASS REPORT CODE
- \*62 AC LOSS REPORT CODE t
- \*63 LOW BAT REPORT CODE t
- \*64 TEST REPORT CODE
- \*65 OPEN REPORT CODE Part. 1  ††  
Part. 2  ††
- \*66 ARM AWAY/STAY RPT CODE Part. 1   ††  
AWAY STAY  
Part. 2   ††  
AWAY STAY

† 2nd digit is automatically sent as the 2nd digit of the zone alarm report code programmed in \*56, if expanded or 4+2 reporting is selected.

†† 2nd digit is automatically sent as the user number if expanded or 4+2 reporting is selected.

- \*67 RF XMTR LOW BAT REPORT CODE
- \*68 CANCEL REPORT CODE

**RESTORE REPORT CODES (\*70–\*76)**

Default for all restore report codes = [00]

- \*70 ALARM RESTORE RPT CODE   
2nd digit is automatically sent as the 2nd digit of the zone alarm report code programmed in \*56, if expanded or 4+2 reporting is selected.
- \*71 TROUBLE RESTORE RPT CODE
- \*72 BYPASS RESTORE RPT CODE
- \*73 AC RESTORE RPT CODE t
- \*74 LOW BAT RESTORE RPT CODE t

t Reports with Partition 1 Subscriber No.

- \*75 RF XMTR LO BAT RST RPT CODE
- \*76 TEST RESTORE RPT CODE

**OUTPUT AND SYSTEM SETUP (\*80–\*93)**

*80	OUTPUT RELAYS AND POWERLINE CARRIER DEVICES	<i>Program only if Relays and/or Powerline Carrier devices are to be used. See next page.</i>
*81	ZONE LISTS FOR OUTPUT DEVICES	

- \*82 CUSTOM ALPHA EDITING: (Also entered from field \*56): *See procedure in instructions.*
- \*83 SEQUENTIAL LEARN MODE (Also entered from field \*56): *See procedure in instructions.*
- \*89 EVENT LOG 80% FULL RPT CODE
- \*90 EVENT LOGGING [3]   
0 = None; 1 = Alarm/Alarm Restore; 2 = Trouble/Trouble Restore; 4 = Bypass/Bypass Restore; 8 = Open/Close.  
*Example:* To select "Alarm/Alarm Restore", and "Open/Close", enter 9 (1 + 8); To select all, enter #15.  
**Note:** System messages are logged when any non-zero selection is made.
- \*91 OPTION SELECTION (AAV) [0]   
0 = None; 4 = AAV; "0" for UL installations.
- \*92 PHONE LINE MONITOR ENABLE [0]   
0 = Not used  
1 = Keypad display when line is faulted  
2 = Keypad display plus keypad trouble sound  
3 = Same as "2", plus Device #2 STARTS. If either partition is armed, external sounder activates also.  
**Note:** Device #2 must either be programmed to be STOPPED in field \*80 or STOPPED by Code + # + 8 + 2.
- \*93 No. OF REPORTS IN ARMED PERIOD [0]   
0 = 10 Alarm/Alarm Restore Reports; 1 = Unlimited.  
"1" for UL installations.

**DOWNLOAD INFORMATION (\*94, \*95)**

\*94 DOWNLOAD PHONE No.

Enter up to 16 digits, 0–9; #+11 for \*\*; #+12 for #; #+13 for a pause. Do not fill unused spaces. If fewer than 16 digits entered, exit field by pressing \* (and press 95, if entering next field). To clear entries from field, press \*94\*.

**Note:** In UL installations, down loading may only be performed if a technician is at the site.

- \*95 RING DET COUNT FOR DOWNLOADING [0]   
0 = Disable Station Initiated Download; 1–14 = number of rings (1–9, # +10 =10, # +11 =11, # +12 =12, # +13 =13, # +14 =14); 15 = answering machine defeat (# +15 =15)  
**Note:** Do not enter "0" if using 4285 Voice Module.

*96	INITIALIZES DOWNLOAD ID, SUBSCRIBER ACCOUNT No. FOR INITIAL DOWNLOAD: No data entry required.
*97	SETS ALL PROGRAM FIELDS TO DEFAULT VALUES: No data entry required.

- \*98 Exits programming mode and *prevents* re-entry by: Installer Code + 8 + 0 + 0. If \*98 is used to exit programming mode, system must be powered down, and method 1 above used to enter the programming mode.
- \*99 Exits programming mode and *allows* re-entry by: Installer Code + 8 + 0 + 0 or: Power-up, then press "\*" and "#" within 50 seconds of power up.

# OUTPUT RELAYS/POWERLINE CARRIER DEVICES WORKSHEET FOR ·80, and ·81.

*Applicable only if Relays and/or Powerline Carrier Devices are to be used.*

**·80 OUTPUT DEVICES** – This is an interactive menu mode. Fill in the required data on the worksheet on below and follow the programming procedure in the installation manual as you enter the data during the displays and prompts that appear in sequence.

- Notes:**
1. For Relays, field ·25 must be programmed for a 4229 (Relays 01 and 02), OR for a 4204 (Relays 01 to 04).
  2. For Powerline Carrier devices, field ·27 must be programmed with a House Code.
  3. Tamper of expansion units cannot be used to operate devices.

DEVICE NUMBER	ACTION (A)	START =either or both-				STOP =either or both-			X-10 SELECT
		EVENT (EV)	ZONE LIST (ZL)	ZONE TYPE SYST OP'N (ZT)	PART'N No. (P)	RESTORE of ZONE LIST (ZL)	ZONE TYPE /SYST OP'N (ZT)	PART'N No. (P)	
OUTPUT RELAY OR P.L.C.D.* 01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OUTPUT RELAY OR P.L.C.D.* 02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OUTPUT RELAY OR P.L.C.D.* 03	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OUTPUT RELAY OR P.L.C.D.* 04	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P.L.C.D.* 05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P.L.C.D.* 06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P.L.C.D.* 07	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P.L.C.D.* 08	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

+\* P.L.C.D. = Powerline Carrier Device (X-10).

Where:

**X-10 SELECT** = **Powerline Carrier Device** Enter "1" if Powerline Carrier Device is being used, enter "0" if relay is being used.

**A = DEVICE ACTION** 0 = No Response; 1 = Close for 2 sec; 2 = Close and stay closed; 3 = Pulse on and off.

**EV = EVENT** 0 = Not used; 1 = Alarm; 2 = Fault; 3 = Trouble.

**ZL = ZONE LIST** 1, 2, or 3 (from Field ·81) or 0 = Not Used.

"START" **ZONE LIST**: Upon alarm, fault, or trouble of ANY zone on this list, device action will START.

"STOP" **RESTORE of ZONE LIST**: Upon restore of ALL zones on this list, device action will STOP. It need not be same list as used for START.

**NOTE:** Do not use input type "BR" transmitters in a zone list to STOP a relay action, since these transmitters do not send restores.

**ZT = ZONE TYPE/SYSTEM OPERATION**

**Choices for Zone Types are:**

- |                              |                       |
|------------------------------|-----------------------|
| 00 = Not Used                | 06 = 24 Hr Silent     |
| 01 = Entry/Exit#1            | 07 = 24 Hr Audible    |
| 02 = Entry/Exit#2            | 08 = 24 Hr Aux        |
| 03 = Perimeter               | 09 = Fire Trouble     |
| 04 = Interior Follower       | 10 = Interior w/Delay |
| 05 = Trouble Day/Alarm Night | 24 = Silent Burglary  |

**Note:** Any zone in "ZT" going into alarm, fault, or trouble will actuate relay. Any zone of that type that restores will stop relay action.

**Choices for System Operation are:**

- |                             |                            |              |
|-----------------------------|----------------------------|--------------|
| 20 = Arming-Stay            | 38 = Chime                 | 52 = Kissoff |
| 21 = Arming-Away            | 39 = Any Fire Alarm        | 58 = Duress  |
| 22 = Disarming (Code + OFF) | 40 = Bypassing             |              |
| 31 = End of Exit Time       | 41 = **AC Power Failure    |              |
| 32 = Start of Entry Time    | 42 = **System Battery Low  |              |
| 33 = Any Burglary Alarm     | 43 = Communication Failure |              |
| 36 = **At Bell Timeout***   |                            |              |

**Note:** In normal operation mode:  
Code + # + 7 + N Key Entry **starts** Device N.  
Code + # + 8 + N Key Entry **stops** Device N.

\*\* Use 0 (Any) for Partition No. (P) entry.

\*\*\* Or at Disarming, whichever occurs earlier.

**P = PARTITION No.** 1, 2, or 0 for Any

**81 ZONE LISTS FOR OUTPUT DEVICES** – This is an interactive mode. Fill in the required data on the worksheet below and follow the procedure in the installation manual as you enter the data during the displays and prompts that appear in sequence.

**Note:** Record desired zone numbers below. More or fewer boxes than shown may be needed, since any list may include *any* or *all* of system's zone numbers.

**Zone List 1:** Started or stopped by zone numbers (enter 00 to end entries).

,  ,  ,  ,  ,  ,  ,  ,  ,  .etc.

**Zone List 2:** Started or stopped by zone numbers (enter 00 to end entries).

,  ,  ,  ,  ,  ,  ,  ,  ,  .etc.

**Zone List 3:** Started or stopped by zone numbers AND/OR assignment of Chime zones (enter 00 to end entries)

,  ,  ,  ,  ,  ,  ,  ,  ,  .etc.

**Zone List 4:** Assignment of common lobby zones (enter 00 to end entries).

,  ,  ,  ,  ,  ,  ,  ,  ,  .etc.

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## SPECIAL MESSAGES

**OC** = OPEN CIRCUIT (no communication between Console and Control).

**EE** or **ENTRY ERROR** = ERROR (invalid field number entered; re-enter valid field number).

After powering up, **AC**, **dl** (disabled) or **Busy Standby** and **NOT READY** will be displayed after approximately 4 seconds. This will revert to **READY** in appx. 1 minute, which allows PIRS, etc. to stabilize. To bypass this delay, press: [#] + [0].

If **E4** or **E8** appears, more zones than the expansion units can handle have been programmed. Correct the programming and then completely de-power and re-power the control to clear this indication and remove the disable indication.

### TO ENTER PROGRAMMING MODE:

1. POWER UP, then depress [**\***] and [**#**] both at once, within 50 seconds of powering up.  
OR
2. Initially, key: **Installer Code (4 + 1 + 1 + 2)** plus **8 + 0 + 0**.  
OR
3. If different **Installer Code** is programmed, key: **New Installer Code + 8 + 0 + 0**.  
(if \*98 was used to exit previously, method 1 above must be used to enter the program mode again)

### TO EXIT PROGRAMMING MODE:

- \*98 Exits programming mode and *prevents* re-entry by: Installer Code + 8+ 0 + 0. If \*98 is used to exit programming mode, system must be powered down, and method 1 above used to enter the programming mode.
- \*99 Exits programming mode and *allows* re-entry by: Installer Code + 8 + 0 + 0 or: Power-up, then press "\*" and "#" within 50 seconds of power up.

**® ADEMCO**

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