

® ADEMCO

INSTALLATION INSTRUCTIONS

NO. 695-6080
PROGRAM CARTRIDGE
(for No. 699 Intelligent Programmer
to program Nos. 4160 and 4180 Series
Control/Communicators)

I. INTRODUCTION

The No. 695-6080 Program Cartridge provides formatted display questions and responses so as to permit a user to program all of the installer variable PROM features of the Nos. 4160, 4160-12, 4180EC, and 4180-12 Control/Communicators, accommodating both the Control and the Communicator No. 691 PROMs for each product. The cartridge plugs into the PRODUCT CARTRIDGE connector of the No. 699 and that product's keypad is used for the programming functions. The following is a brief explanation of: 1) Keys and their function, 2) Special Displays, 3) Standby Power, 4) Displays and Responses.

A. Keypad Entries

All programming questions are responded to by the entry of a decimal or hexadecimal number or by positioning the display pointer next to a multiple choice selection.

POWER

This key is used to turn the unit On or Off.

ENTER

Depressing this key will command the programmer to accept your number entry or selection. It also automatically advances the display to the next question.

ESC

Depressing this key will command the programmer to Escape from the current screen (or operation). The programmer will terminate its current activity and will revert to the previous display level.



Moving the display pointer sideways is accomplished by using either \rightarrow or \leftarrow keys. When these keys are used, the current choice selection will be erased when the pointer passes through the data field.

If there are more multiple choice selections than can be displayed at any time, "...more" will be displayed and the display pointer should be moved to this selection to display these additional selections.

Moving from the current question to the next question is accomplished by using \downarrow key.

Moving from the current question to the previous question is accomplished by using \uparrow key.

SHIFT

Upper case letters and some special characters are entered by simultaneously depressing the Shift key and the corresponding keys.

SELECT/SPACE

This key is used to select one (or more if applicable) of the multiple choice selections. Entering this key once more for an already selected choice de-selects the item.

B. Special Displays

In the detailed descriptions to follow, a few special symbols will be used adjacent to some of the displays. These are:

- "**" indicates the Default Values selected by Ademco.
- "-" indicates a value is not selected yet (e.g. telco number)

C. Standby Power

Your 699 Intelligent programmer is capable of operation with AC power (all system functions available) or without AC power (PROM or EPROM programming and printing are disabled). However, in either case, the unit can be used to enter or modify the end-user data.

The 699 employs two batteries to maintain the entered data and/or to enable some limited operation.

A rechargeable 9 Volt - 75 maH NiCad battery (Ademco Part #N2215) provides power for all system operations except for PROM programming and for printing, for which a connection to AC is mandatory. This battery, when fully charged, is capable of powering the 699 for approximately 45 minutes of operation without AC connection (the unit will automatically shut down after 5 minutes of inactivity). The full charge is achieved after the unit is connected to AC power for at least 18 hours. Under normal use, the life of this battery will be in excess of three years.

IMPORTANT: NiCad batteries require complete charge-discharge cycling in order to achieve the stated battery capacity. Hence, occasionally (e.g., once every two or three months) allow the 699 to operate under battery power until the unit is shut-down with a "low-battery" indication.

The 699 also has a non-rechargeable 3V-60 maH Lithium battery (Ademco Part #N2225) which maintains the entered data even when the power from both the AC and the NiCad Battery is unavailable. Under normal circumstances (NiCad battery is always kept charged), the lifetime for this battery will be in excess of 6 years.

D. Replacing Batteries

Both batteries must only be replaced with the part numbers cited above. This can be accomplished by removing the six screws on the underside of the base of the unit and by removing the 699 from its plastic carrying case. Observe polarity, especially for the Lithium battery.

II. USAGE OF THE CARTRIDGE

When the cartridge is plugged into the PROGRAM CARTRIDGE socket and the POWER key is pressed, the Product Type Selection Display is presented.

Select Product Type	Use → ←
*4180	4160

Move the display pointer to select the product whose PROMs are being programmed and press ENTER to obtain:

Select 4160 PROM Type (Rev 1.0)
*4160 CONTROL 4160 DIALER

or

Select 4180 PROM Type (Rev 1.0)
*4180 CONTROL 4180 DIALER

Move the display pointer to select the PROM being programmed and press ENTER to obtain the appropriate Main Function Selection Display.

Select 4160 CONTROL Operation
*LOAD MODIFY SAVE PRINT

or

Select 4160 DIALER Operation
*LOAD MODIFY SAVE PRINT

or

Select 4180 CONTROL Operation
*LOAD MODIFY SAVE PRINT

or

Select 4180 DIALER Operation
*LOAD MODIFY SAVE PRINT

Move the display pointer to the left of the function desired and that function is selected by keying ENTER.

FUNCTIONS

DESCRIPTION

LOAD	Selects the source of the predefined data to be used in the programming of the product's PROM.
MODIFY	Select this mode when the predefined PROM data loaded requires modification or when viewing of PROM data is desired.
SAVE	Save PROM data on a Blue/Red No. 691 master PROM for later copying into similar products yet to be programmed or on a PROM directly being used in a control.
PRINT	Used to make a printed record of the PROM data entered if optional printer is connected.

A. **LOAD**

When the LOAD function is selected, the following display appears:

Select Data Source To LOAD
*None Defaults External

Move the display pointer to the source desired and select it by pressing ENTER.

Source

Description

Defaults Factory defined selections that are stored in the Program Cartridge. When selected, the display returns to the Main Function Selection Display.

External Previously saved PROM data (e.g. Master PROM) can be read into the programmer by inserting a 32 x 8 master PROM into SOCKET B. This mode can also be used to load the contents of a previously programmed PROM so that the MODIFY mode can be used subsequently to review the PROM's contents. **For the 4180, it is critical that the EXPERT path be followed during the review to avoid overwriting the data with the Ademco factory default program.** When selected, the following display appears:

Insert PROM In Socket B
Hit ENTER To Start, ESC To Abort

After the PROM is inserted, press ENTER. The display "Load Successful" followed by the display "Remove PROM, Enter When Ready" appears. To proceed, the PROM has to be removed. Press ENTER to return to the Main Function Selection Display.

If ENTER is pressed prior to the PROM being inserted, the following display appears:

PROM NOT Inserted
Insert New PROM, and Hit ENTER

B. **MODIFY**

When the MODIFY function is selected, the following display appears:

Customer Name : []
-

Press ENTER without making any entry in Questions 1-5 unless a printer is being used to log the program. Key the end user's name (30 chars., max) and press ENTER to obtain the following display:

Street (line 1) : [2]
-

Key the street address of the end user (30 chars., max) and press ENTER to obtain the following display:

Street (line 2) : [3]
-

Key the supplemental street address information (30 chars., max) and press ENTER to obtain the following display:

City/State/Zip [4]
-

Key the end user's town/state/zip code (30 chars., max) and press ENTER to obtain the following display:

Auxiliary information [5]
-

Key customer account number or other miscellaneous information about the account (30 chars., max) and press ENTER to obtain the following display:

IF 4160 CONTROL PROM is being programmed:

Enter MASTER SECURITY CODE [6]
Master Security Code: *0000

NOTE: This is the first programming question.

Enter the 4 digit (0-9) code desired as the master keypad arm/disarm code and press ENTER to obtain:

ENTRY Delay (000-135 Secs) [7]
*030

Enter 3 digit (leading zeroes required) numeric (0-9) time duration (in 15 second increments or No. 699 will round off to next **LOWEST** multiple of 15) for the entry delay period desired and press ENTER to obtain:

EXIT Delay (000-135 Secs) [8]
*030

Enter 3 digit (leading zeroes required) numeric (0-9) time duration (in 15 second increments or No. 699 will round off to next **LOWEST** multiple of 15) for the exit delay period desired and press ENTER to obtain:

Sounder Duration (04-36 Min) [9]
*04

Enter 2 digit (leading zero required) numeric (0-9) time duration (in 4 minute increments or No. 699 will round off to next **LOWEST** multiple of 4) for the sounding of burglary, audible 24 hour, and fire alarms and press ENTER to obtain:

Select Zone 4 TYPE [10]
*Nite BURG Day/Nite BURG FIRE

Position the display pointer to the left of the type of zone response desired for Zone 4 and press ENTER.

***NOTE:** Day/Nite BURG is a burglary zone wherein a zone fault produces a trouble when the control is disarmed and an alarm when it is armed.

If Nite BURG or Day/Nite BURG is selected, jump to Question 12:

If FIRE is selected, the following display appears:

Sounder TIMEOUT Enabled [11]
*YES NO

Position the pointer to select whether fire alarm sounding will automatically turn off after the programmed period or sound indefinitely until silenced by the user turning off the system and press ENTER to obtain:

Select Zone 5 PANIC type [12]
*SIL(no disp) SIL(w/disp) AUD

Position the pointer to select whether Zone 5 will function as a silent panic zone (with or without an LED and numeric indication on the console) or as an audible panic zone with LED and numeric indications and press ENTER to obtain:

Select Zone 6 TYPE [13]
*Nite BURG Audible PANIC

Position the pointer to select whether Zone 6 will function as a burglary zone or as an audible panic zone and press ENTER to obtain:

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Select ENTRY/EXIT Delay Zones [14
Zone 1 Zone 2 Zone 3

Position the pointer next to each burglary zone for which entry/exit delay is desired (entry/exit zone and possibly interior zone) and make your selection(s) by pressing the SELECT key (leaving a * next to each zone selected). When all selections are made, press ENTER to obtain:

Select FAST RESPONSE Zones [15
Zone 2 Zone 3 Zone 4

Position the pointer next to each zone in which fast acting sensors (15-250 msec faults) will be used and make your selection(s) by pressing the SELECT key (leaving a * next to each zone selected). When all selections are made, press ENTER to obtain:

Enable FORCED ARMING BYPASS [16
ZN1 ZN2 ZN3 ZN4 ZN5 ZN6

Position the pointer next to each zone for which user forced arming bypass is desired and make your selection(s) as above. When all selections are made, press ENTER to obtain:

Enable INDIVIDUAL BYPASS [17
ZN1 ZN2 ZN3 ZN4 ZN5 ZN6

Position the pointer next to each zone for which user individual bypass is desired and make your selection(s) as above. When all selections are made, press ENTER to obtain:

Enable Zone RESTORE [18
ZN1 ZN2 ZN3 ZN4 ZN5 ZN6

Position the pointer next to each zone for which you desire to have the zone restored for subsequent alarms after a first alarm during an armed period and make your selection(s) as above. When all selections are made, press ENTER to obtain:

Enable DIALER RESTORE Report [19
Z1 Z2 Z3 Z4 Z5 Z6 Z4TR

Position the pointer next to each zone (with a separate selection for Zone 4 Trouble) for which you desire to have the zone restore communicated to the central station and make your selection(s) as above. When all selections are made, press ENTER to obtain:

SOUNDER Delay (000-135 Secs) [20
*030

Enter 3 digit (leading zeroes required) numeric (0-9) time duration (in 15 second increments or No. 699 will round off to the next LOWEST multiple of 15) for the delay after the console starts sounding an alarm and before the outside sounders commence their alarm sounding and press ENTER to obtain:

Enable SOUNDER Delay for [21
ZN1 ZN2 ZN3 ZN4 ZN5 ZN6

Position the pointer next to each zone for which sounder delay is desired and make your selection(s) as above. When all selections are made, press ENTER to obtain:

Select COMMUNICATOR Reports [22
*OP/CL BYP ✓Z4TR *AC/L-B ✓CNCL #

Position the pointer next to each communicator report desired (OP/CL = Open/Close, BYP = Bypass, Z4TR = Zone 4 Trouble, AC/L-B = Loss of AC or Low Battery, CNCL = Cancel) and make your selection(s) as above. When all selections are made, press ENTER to obtain:

If AC/L-B was one of the selections:

LO BAT Report/NEW H.S.Format [23
*YES NO

Position the pointer to select whether or not the Low Battery Report in the Ademco High Speed format will be an 8 in Channel 9 (old format) or a 1 in Channel 2 when Channel 9 is a 6 (new format) and press ENTER to obtain:

If AC/L-B was not one of the selections, proceed directly to Question 24:

Enable COMMUNICATOR Delay [24]

*Z1 *Z2 *Z3 *Z4 *Z6 TR CL

Position the pointer next to each report for which a 16 second delay (prior to report transmission) is desired and make your selection(s). [TR = Zone 4 Trouble and CL = Closing]. When all selections are made, press ENTER to obtain:

Confirmation of ARM "DING" [25]

*Disabled Enabled

Position the pointer to select whether or not the external sounder will be turned on for a 1/2 second at the end of the exit delay to confirm arming and press ENTER to obtain:

MASTER Code Disable Soft Code [26]

*YES NO

Position the pointer to select whether or not usage of the master security code will cause lock-out of the secondary security code(s) from being able to be used and press ENTER to obtain:

ZONE# for Code to CS (1-6) [27]

-

If Ademco High Speed format is being used, make no entry and just press ENTER to advance to Question 28. If Ademco High Speed format is **not** being used, enter the 1 digit number (1-6) of the zone whose report is to be programmed and press ENTER to obtain:

Select CS CODE For Zone # [28]

*No 1 2 3 4 5 6 7 8 ON

Position the pointer to select the numeric report desired or select NO for no Central Station report and press ENTER to return to Question 27 for entry of the number of the next zone having its report programmed. Repeat the above procedure for each of the zones used. When the last zone report has been programmed, press ENTER without keying any zone number, when Question 27 is again reached, to obtain:

Select CS Rpt Code for DURESS [28]

*No 1 2 3 4 5 6 7 8

Position the pointer to select the numeric report desired for Duress or select NO for no Duress Report and press ENTER to obtain:

Reports To 2nd PHONE # Only [29]

Z1 Z2 Z3 Z4 Z5 Z6 TR OC

If none of these reports are being sent exclusively to a second Central Station phone number, make no selections and press ENTER. If a second CS phone number is being used, position the pointer next to the reports that are to be routed **exclusively** to that phone number and make your selection(s). After all selections are made, press ENTER to obtain:

Reports To 2nd PHONE # Only [30]

DURESS AC/TST/L-B

Continue with the procedure used for Question 29 above and press ENTER to obtain:
[AC/TST/L-B refers to the Loss of AC, Test, and Low Battery Reports]

ALL DIALER REPORTS on 1 CALL [31]

*YES NO

Position the pointer to select, when multiple dialer reports need to be transmitted, whether all reports destined for the primary phone number are sent before any reports are sent to the secondary phone number or whether a report should be sent to both phone numbers (i.e. alarms) before other reports are sent and press ENTER to obtain:

Select Reporting Method [32]

Split/1Rprt *Alt-By-2s Dual

Position the pointer to select the method of communicator reporting:

Split/1Rprt =

Single phone number reporting or split reporting where some reports go to one CS phone number and other reports go to a different CS phone number (e.g. open/close).

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Alt By 2s = Alternate By 2s back-up reporting, where up to two tries are made to the primary phone number to deliver the message and then up to two tries are made to the secondary phone number. The latter sequence repeats until either the message is delivered to one phone number or the maximum number of tries have been exhausted.

Dual = Dual reporting, where reports not otherwise designated are transmitted to both the primary and secondary CS phone numbers.

Press ENTER to obtain:

AC Failure Delay (00-36 mins) [33]
*36

Enter 2 digit (leading zero required) numeric (0-9) time duration (in 4 minute increments or No. 699 will round off to next **LOWEST** multiple of 4) for the period that AC power must be lost before trouble sounding will commence and a Loss of AC report will be transmitted and press ENTER to obtain:

Select BURGLARY SIREN SOUND [34]
*Rapid Hi/Lo Slow Hi/Lo

Position the pointer to select the desired sound to be produced by the external siren for a burglary alarm and press ENTER to obtain:

Select ARMED Status Level [35]
*LOW HIGH

Position the pointer to select the desired signal level from the Armed Status output terminal (Low is required to properly control the memory of most popular Ademco motion detectors) and press ENTER to obtain:

Review the Modified Data ?
Yes No

Position the pointer to select whether you want to review the data just entered by you or move ahead to the next programming task and press ENTER. If your selection is "Yes", the 699 will return to Question 1. If your selection is "No", the 699 will return to the Main Function Selection Display for the 4160 CONTROL PROM.

IF 4180 CONTROL PROM is being programmed:

Enter MASTER SECURITY CODE [6]
Master Security Code: *0000

Enter the 4 digit (0-9) code desired as the master keypad arm/disarm code and press ENTER to obtain:

Zone Programming Method [7]
*Normal by Type Expert by Zone

Position the pointer to select whether you desire to use the factory predefined zone definitions ("Normal") or to custom program each attribute of each zone ("Expert"). Even if "Normal..." is selected, it is possible to subsequently selectively modify specific zone attributes to your liking. Press ENTER. **CAUTION: When viewing previously programmed or entered data, it is mandatory that the "Expert by Zone" path be used in order to avoid overwriting the data with the factory default data, as would happen if "Normal by Type" were selected.**

If Normal by Type is selected, the following Display Appears:

Zone # For TYPE SELECT(1-8) [8]
-

Enter the 1 digit number (1-8) of the zone whose characteristics are to be programmed and press ENTER to obtain:

Type Selected For Zone # 0N
 NO *E/E PER INTI INTD more

Position the printer to the zone type desired (NO = None of the choices offered, E/E = Entry/Exit Burg., PER = Perimeter Burg., INTI = Instant Interior Burg., INTD = Interior Burg. w/E/E Delay) and press ENTER. If none of these choices are desired, position the pointer to NO and press ENTER to obtain:

Type Selected For Zone # 0N
 NO D/N A/P SP MED FIRE

Position the pointer to the zone type desired (D/N = Perimeter Burg. that yields trouble during disarmed state and alarm during armed state, AP = Audible Panic, SP = Silent Panic, MED = 24 Hr. Medical). Press ENTER to return to Question 8 for entry of the next zone to have its characteristics programmed. Repeat the above procedure for each of the zones used. The zone selections offered have the following attributes:

	E/E	PER	INTI	INTD	D/N	AP	SP	MED	FIRE
Force Arm/Bypass	X	X	X	X	X				
Zone Restore	X	X	X	X	X	X	X	X	X
Communicator Restore	X	X	X	X	X	X	X	X	X
16 Sec. Dialer Delay	X	X	X	X	X				X
Exterior Sounder Delay									
Exterior Sounder Inhibit							X	X	
Console Sounder/Display Inhibit							X		
CS Call To 2nd # Only									
CHIME	X	X							
Lites On									
Trouble on Open					X				X
Trouble on Short					X				
24 Hour Alarm						X	X	X	X
Fire Alarm Sound									X
E/E Delay	X			X					
Interior Zone			X	X					

When the last zone has been programmed, press ENTER without keying any zone number, when Question 8 is again reached, to proceed to Question 9.

If "Expert by Zone" is Selected, the Following Display Appears:

Modify Zone Descriptions [9]
 *YES NO

Position the pointer to select whether the zone types as defined in the above parameter table are to be modified or not and press ENTER.

If the Parameter Table is to be modified and YES is selected, proceed to Question 10.

FORCE ARM/BYPASS ENABLE [10]
 Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which the force arm/bypass characteristic is to be changed (disable if enable or enable if not previously set) and use the SELECT key to make your selection(s). When all selections are made, press ENTER to obtain:

ZONE RESTORE ENABLE [11]
 *Z1 *Z2 *Z3 *Z4 *Z5 *Z6 *Z7 *Z8

Position the pointer next to each zone for which the zone restore capability is to be deleted (or added if Expert Mode is used) and make your selection(s). When all selections are made, press ENTER to obtain:

NOTE: In questions 10-25, the SELECT key is used to make your selections.

COMMUNICATOR RESTORE ENABLE [12]

#Z1 #Z2 #Z3 #Z4 #Z5 #Z6 #Z7 #Z8

Position the pointer next to each zone for which communicator restore reports are not wanted (or wanted if Expert Mode is used) and make your selection(s).

When all selections are made, press ENTER to obtain:

16 Sec DIALER DELAY ENABLE [13]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which dialer delay before transmission is to be enabled or disabled and make your selection(s). When all selections are made, press ENTER to obtain:

EXTERIOR SOUNDER DELAY ENABLE [14]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which you want exterior alarm sounding to be delayed subsequent to the start of interior console alarm sounding and make your selection(s). When all selections are made, press ENTER to obtain:

EXTERIOR SOUNDER INHIBIT [15]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which you want to inhibit exterior alarm sounding and make your selection(s).

When all selections are made, press ENTER to obtain:

CONSOLE SOUNDR/DISPLY INHIBIT [16]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which you want to inhibit console alarm sounding and display and make your selection(s). When all selections are made, press ENTER to obtain:

CS CALL TO 2ND # ONLY ENABLE [17]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone whose alarm report is to be routed only to the 2nd central station phone number and make your selection(s). When all selections are made, press ENTER to obtain:

CHIME ENABLE [18]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which chime console audible annunciation is to be enabled or inhibited during the disarmed state and make your selection(s). When all selections are made, press ENTER to obtain:

"LITES ON" ENABLE [19]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which the "Lites On" output is to be activated when the zone has an alarm tripped and make your selection(s). When all selections are made, press ENTER to obtain:

TROUBLE ON OPEN ENABLE [20]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which a "trouble" condition should be produced when the loop is opened (e.g. fire zone) and make your selection(s). When all selection(s) are made, press ENTER to obtain:

TROUBLE ON SHORT ENABLE [21]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which a "trouble" condition should be produced when the loop is shorted and make your selection(s). When all selection(s) are made, press ENTER to obtain:

24 HOUR RESPONSE ENABLE [22]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which an alarm should be produced at all times (ex: fire, panic, medical, etc...) and make your selection(s). When all selections are made, press ENTER to obtain:

FIRE ALARM SOUND ENABLE [23]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which an alarm should result in a pulsed (fire) alarm sound and make your selection(s). When all selections are made, press ENTER to obtain:

DELAYED RESPONSE ENABLE (E/E) [24]

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which entry/exit delay is to be added or deleted and make your selection(s). When all selections are made, press ENTER to obtain:

INTERIOR ZONE RESPONSE ENABLE [25]
 Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone for which bypassing via the console STAY Key is desired and make your selection(s). When all selections are made, press ENTER to proceed to Question 26.

If the Parameter Table is NOT to be modified and NO is selected, the following display is obtained:

Zone # For CODE To CS (1-8) [26]
 -

Enter the 1 digit number (1-8) of the zone whose report is to be programmed and press ENTER to obtain:

Select CS CODE For Zone # 0N
 *No 1 2 3 4 5 6 7 8

Position the pointer to select the numeric report code desired or select NO for no Central Station report and press ENTER to return to Question 26 for entry of the number of the next zone having its report programmed. Repeat the above procedure for each of the zones programmed previously. When the last zone report has been programmed, press ENTER without keying any zone number, when Question 26 is again reached, to obtain:

Fast Zone Response Enable [27]
 Z5 Z6 Z7 Z8(Toggle w/SELECT)

Position the pointer next to each zone for which fast (15 msec) response is desired (for use with fast acting glass break and vibration sensors) and make your selection(s). When all selections are made, press ENTER to obtain:

Zone # for FIRE Keys (0-8) [28]
 *0

Enter the 1 digit number (0-8) of the zone to which the FIRE keys on the 5322 Console are to be assigned for alarm response and central station reporting (0 is retained or entered to suppress the keys' function) and press ENTER to obtain:

Zone # for POLICE Keys (0-8) [29]
 *0

Enter the 1 digit number (0-8) of the zone to which the POLICE keys on the 5322 Console are to be assigned for alarm response and central station reporting (0 is retained or entered to suppress the keys' function) and press ENTER to obtain:

Zone # for EMERG Keys (0-8) [30]
 *0

Enter the 1 digit number (0-8) of the zone to which the EMERG keys on the 5322 Console are to be assigned for alarm response and central station reporting (0 is retained or entered to suppress the keys' function) and press ENTER to obtain:

Modify MISC PROM PARAMETERS [31]
 *YES NO

Position the pointer to select whether or not various factory preset control PROM parameters, as described in the below table, are to be changed and press ENTER.

<u>Parameter</u>	<u>Factory Setting</u>
Entry Delay	30 seconds
Exit Delay	30 seconds
Alarm Sounder Delay	15 seconds
Alarm Sounder Duration	4 minutes
A.C. Loss Delay	36 minutes
PROM Master Code Suppression	NO
Power Up Arming State	Disarmed
Arming Status Output Level	Low-Armed
Confirmation of Arming "DING"	NO
Telco Line Fault Alarm	YES
Alarm Relay Enable	Burg/Fire
Alarm Siren Enable	Burg/Fire

CONTROL

<u>Parameter</u>	<u>Factory Setting</u>
Latch Alarm Relay for Strobe	NO
Fire Alarm Sounder Timeout	YES
4 Hr AC Loss Alarm (UL609)	NO
<u>COMMUNICATION</u> Reporting Method	Alternate by 2s
All Reports on One Call	YES
Expanded Ademco HS Format for Low Battery	YES
CS Report for Miscellaneous Items	Loss of AC/Low Battery
CS Reports to 2nd Phone Number Only	NONE
16 Second Closing Report Delay	YES

If NO is selected, the programmer will return to the Main Function Selection Display for the 4180 CONTROL PROM.

If YES is selected, the following display appears:

MODIFY PARAMETERS Related To [32]
*CONTROL COMMUNICATION

Position the pointer to select whether CONTROL or COMMUNICATION parameters are to be changed and press ENTER.

If CONTROL is Selected, the following display appears:

ENTRY DELAY (000-225 Sec) [33]
*030

Enter 3 digit (leading zeroes required) numeric (0-9) time duration (in 15 second increments, or No. 699 will round off to the next **lowest** multiple of 15) for the entry delay period and press ENTER to obtain:

EXIT DELAY (000-225 Sec) [34]
*030

Enter 3 digit (leading zeroes required) numeric (0-9) time duration (in 15 second increments, or No. 699 will round off to the next **lowest** multiple of 15) for the exit delay period and press ENTER to obtain:

SOUNDER DELAY (000-225 Sec) [35]
*015

Enter 3 digit (leading zeroes required) numeric (0-9) time duration (in 15 second increments, or No. 699 will round off to the next **lowest** multiple of 15) for the period after the console sounder produces alarm sounds but before the exterior alarm sounders begin to sound and press ENTER to obtain:

SOUNDER DURATION (04-60 Min) [36]
*04

Enter 2 digit (leading zero required) numeric (0-9) time duration (in 4 minute increments, or No. 699 will round off to the next **lowest** multiple of 4) for the alarm sounding period and press ENTER to obtain:

A.C. LOSS DELAY (00-36 Mins) [37]
*36

Enter 2 digit (leading zero required) numeric (0-9) time duration (in 4 minute increments, or No. 699 will round off to the next **lowest** multiple of 4) for the period that AC power must be lost before trouble sounding will begin and a report will be sent to the central station and press ENTER to obtain:

SUPPRESS PROM MASTER CODE [38]
YES *NO

Position the pointer to select whether or not the PROM Master Security Code is to be enabled once any secondary security codes are entered and press ENTER to obtain:

POWER UP ARMING STATE [39]
 ARMED *DISARMED

Position the pointer to select whether the control should come up armed or disarmed after power is restored subsequent to a long power outage (that completely depletes the battery) and press ENTER to obtain:

ARMING STATUS OUTPUT LEVEL [40]
 *LO-ARMED HI-ARMED

Position the pointer to select whether the arming status level should be high or low to indicate that the system is armed (low is useful to control Ademco PIR memory and high is useful for activation of a Derived Channel STU) and press ENTER to obtain:

CONFIRMATION OF ARM "DING" [41]
 YES *NO

Position the pointer to select whether or not the exterior alarm sounder should produce a 1/2 second alarm sound at the end of the exit delay (as required by UL609 for Grade 'A' Local Mercantile Burglary Alarms) as a confirmation of arming and press ENTER to obtain:

ALARM if TELCO LINE FAULT [42]
 *YES NO

Position the pointer to select whether or not an alarm should be produced if a telephone line fault is detected by a No. 659EN connected to the control and press ENTER to obtain:

ALARM RELAY ENABLED FOR [43]
 *BURGLARY *FIRE

Position the pointer next to the alarm types for which the alarm relay should **not** be activated and make your selection(s). When all selections are made, press ENTER to obtain:

SIREN OUTPUT ENABLED for [44]
 *BURGLARY *FIRE

Position the pointer next to the alarm types for which the siren should **not** be activated and make your selection(s). When all selections are made, press ENTER to obtain:

LATCH ALARM RELAY AT TIMEOUT [45]
 YES *NO

Position the pointer to select whether or not you want the alarm relay to latch on after the alarm times out to activate a memory of alarm strobe and press ENTER to obtain:

SOUNDER TIMEOUT FOR FIRE [46]
 *YES NO

Position the pointer to select whether or not you want alarm sounder timeout or indefinite sounding (until the alarm is manually silenced from the keypad) per UL985 for residential fire and press ENTER to obtain:

ALARM AFTER 4HR AC LOSS/UL609[47]
 YES *NO

Position the pointer to select whether or not an alarm should be activated after AC power has been lost for 4 hours (a UL609 Grade 'A' Mercantile Burglary requirement) and press ENTER to return to Question 31. At that time, select YES to reach Question 32 where access to certain communication parameters can be obtained by selecting COMMUNICATION and pressing ENTER:

If COMMUNICATION is Selected, the following display appears:

REPORTING METHOD SELECTED [48]
 *ALT by 2s DUAL other

Position the printer to select the method of communication reporting:

ALT by 2s = Alternate By 2s back-up reporting, where up to two tries are made to the primary phone number to deliver the message and then up to two tries are made to the secondary phone number. The latter sequence repeats until either the message is delivered to one phone number or the maximum number of tries have been exhausted.

Dual = Dual reporting, where reports not otherwise designated are transmitted to both the primary and the secondary CS phone numbers.
Other = Single phone number reporting or split reporting where some reports go to one CS phone number and other reports go to a different CS phone number (e.g. open/close).

Press ENTER to obtain:

ALL REPORTS ON one CALL [49]
*YES NO

Position the pointer to select, when multiple dialer reports need to be transmitted, whether all reports destined for the primary phone number are sent before any reports are sent to the secondary phone number or whether a report should be sent to both phone numbers (i.e. alarm) before other reports are sent and press ENTER to obtain:

CS REPORT ENABLE for [50]
O/C BYP TEL *AC/LBAT

Position the pointer next to each communicator report desired (O/C = Open/Close, BYP = Bypass, TBL = Trouble, AC/LBAT = Loss of AC or Low Battery) and make your selection(s). When all selections are made, press ENTER to obtain:

If AC/LBAT is Not Selected:

Proceed to Question 52

If AC/LBAT is Selected:

Expanded HS Format for LBAT [51]
*YES NO

Position the pointer to select whether or not the Low Battery Report in the Ademco High Speed format will be an 8 in Channel 9 (old format) or a 1 in Channel 2 when Channel 9 is a 6 (new format) and press ENTER to obtain:

CS REPORT TO 2nd PHONE ONLY [52]
TROUBLE O/C-BYPASS

If none of these reports are being sent exclusively to a second Central Station phone number, make no selections and press ENTER. If a second CS phone number is being used, position the pointer next to each report to be routed **exclusively** to the second phone number and make your selection(s). After all selections are made, press ENTER to obtain:

CS REPORT TO 2nd PHONE ONLY [53]
DURESS AC-LBATT-TEST

Continue with the procedure used for Question 52 above and press ENTER to obtain:

[AC-LBATT-TEST refers to the Loss of AC, Low Battery, and Test Reports]

16secs DELAY on CLOSING REPS [54]
*YES NO

Position the pointer to select whether or not a 16 second delay should be in effect for closing reports and press ENTER to obtain:

Review the Modified Data ?
Yes No

Position the printer to select whether you want to review the data just entered by you or move ahead to the next programming task and press ENTER. If your selection is "Yes", the 699 will return to Question 1. If your selection is "No", the 699 will return to the Main Function Selection Display for the 4180 CONTROL PROM.

IF 4160 or 4180 COMMUNICATOR PROM is being programmed:

Number Of Digits for ACCT No. [6]
*3 Digits 4 Digits

Position the pointer to select whether 3 or 4 digit subscriber account numbers will be used. Ademco High Speed Format requires the use of 4 digit subscriber ID numbers. The other formats can use either 3 or 4 digits, depending upon the capabilities of the receiver being used. Ademco's No. 685 accommodates 3 or 4 digits for the other formats. Press ENTER to obtain:

Enter PRIMARY ACCOUNT No. [7]
Prim. Account No. : ----

Enter the 3 or 4 digit (as appropriate) hexadecimal (0-9,B-F) account ID number for the reports to be transmitted to the primary phone number and press ENTER to obtain:

Enter SECONDARY ACCOUNT No. [8]
Sec. Account No. : ----

If the secondary phone number is to be used, enter the 3 or 4 digit (as appropriate) hexadecimal (0-9,B-F) account ID number for the reports to be transmitted to that phone number. If a secondary phone number will not be used, no entry is necessary. Press ENTER to obtain:

Enter PRIMARY PABX Number [9]
PABX : ---- (0-9, *, #)

If a PABX access code must be dialed in order to obtain an outside telco line or if a phone number prefix is required to shut down a "call waiting" feature, enter up to 4 digits (0-9, *, #). If neither situation is present, no entry is required. Press ENTER to obtain:

Enter PRIMARY PHONE Number [10]
----- (0-9, * #)

Enter up to 12 digits (0-9, *, #) for the primary phone number being called (use a # at the end of the phone number if the control is being used in a part of the G.T.&E. telco system that uses TouchTone-to-Dial Pulse Converters AND Ademco High Speed format is being used, so as to shut down the converter before the alarm message is transmitted) and press ENTER to obtain:

PRIMARY Phone ACK Wait [11]
*30 Secs 60 Secs

Position the pointer to select whether the standard (30 secs.) or the long (60 secs., for slow response Telco networks) Acknowledge wait time is to be used and press ENTER to obtain:

PRIMARY Report Xmit FORMAT [12]
*ADHI ADLO SES RAD RDF BFSK

Position the pointer to select the report transmission format being used for the primary telephone number:

- ADHI = Ademco High Speed (DTMF) Format
 - ADLO = Ademco Low Speed (10 pulses/sec, 1400 Hz ACK/Kissoff)
 - SES = SESCOA Format (20 pulses/sec, 2300 Hz ACK/Kissoff, Variable Interdigit Time)
 - RAD = Radionics Format (20 pulses/sec, 2300 Hz ACK/Kissoff, Fixed Interdigit Time)
 - RDF = Radionics Superfast Format (40 pulses/sec, 2300 Hz ACK/Kissoff, Fixed Interdigit Time)
 - BFSK = Radionics BFSK Format
- and press ENTER to obtain:

IF ADHI Was Selected:

CS Phone Service Used [13]
*LOCAL WATS/SATELLITE

Position the pointer to select the type of phone line used (since the Kissoff wait time needs to be extended if a WATS/SATELLITE line is being used) and press ENTER to proceed to Question 16.

IF ADLO, SES, RAD, or RDF Was Selected:

PRIMARY Low Speed REPORTING [14]
*Standard Expanded

Position the pointer to select the type of reporting desired, standard single message or expanded two message (e.g. open/close by user, trouble or restore by zone, etc...), and press ENTER to proceed to Question 16.

IF BFSK Was Selected:

FIRE ZONE Select for BFSK [15]
Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone being used for fire protection and make your selection(s). When all selections are made, press ENTER to obtain:

PRIMARY Message VERIFICATION [16]
*2 Message 1 Message+Checksum

Position the pointer to select whether two identical message verification or single message transmission with checksum verification is used (dependent upon Telco line quality and the receiver used) and press ENTER to obtain:

SECONDAry PHONE Utilized [17]
*YES NO

Position the pointer to select whether or not a secondary phone number is to be used and press ENTER.

If NO is Selected, proceed to Question 26

If YES is Selected:

Enter SECONDAry PABX Number [18]
PABX : ---- (0-9, *, #)

If a PABX access code must be dialed in order to obtain an outside telco line or if a phone number prefix is required to shut down a "call waiting" feature, enter up to 4 digits (0-9, *, #). If neither situation is present, no entry is required. Press ENTER to obtain:

Enter SECONDAry PHONE Number [19]
----- (0-9, *, #)

Enter up to 12 digits (0-9, *, #) for the secondary phone number being called (use a # at the end of the phone number if the control is being used in a part of the G.T.&E. telco system that uses TouchTone-to-Dial Pulse Converters AND Ademco High Speed format is being used, so as to shut down the converter before the alarm message is transmitted) and press ENTER to obtain:

SECONDAry Phone ACK Wait [20]
*30 Secs 60 Secs

Position the pointer to select whether the standard (30 secs.) or the long (60 secs, for slow response Telco networks) Acknowledge wait time is to be used and press ENTER to obtain:

SECONDAry Report Xmit FORMAT [21]
*ADHI ADLO SES RAD RDF BFSK

Position the printer to select the report transmission format being used for the secondary telephone number:

ADHI = Ademco High Speed
ADLO = Ademco Low Speed
SES = SESCOA
RAD = Radionics
RDF = Radionics Superfast
BFSK = Radionics BFSK

and press ENTER to obtain:

IF ADHI Was Selected:

CS Phone Service Used [22]
*LOCAL WATS/SATELLITE

Position the pointer to select the type of phone line used and press ENTER to proceed to Question 25.

IF ADLO, SES, RAD, RDF Was Selected:

SECONDARY Low Speed REPORTING [23

*Standard Expanded

Position the pointer to select the type of reporting desired, standard single message or expanded two message, and press ENTER to proceed to Question 25.

IF BFSK Was Selected:

FIRE ZONE Select for BFSK [24

Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8

Position the pointer next to each zone being used for fire protection and make your selection(s). When all selections are made, press ENTER to obtain:

SECONDARY Message VERIFICATION [25

*2 Message 1 Message+ChkSum

Position the pointer to select whether two identical message verification or single message transmission with checksum verification is used and press ENTER to obtain:

ADLO,SES,RAD,RDF on PRI/SEC [26

*YES NO

Position the pointer to select whether or not any of the listed formats (Ademco Low Speed, SESCOA, Radionics, or Radionics Superfast) would be used in transmissions to either the primary or secondary telephone number and press ENTER.

IF NO, the Next Display Will be that of Question 38 (Ademco Hi Speed users select NO)

IF YES, the Next Display Will Be:

CODE Reported for TROUBLE [27

CODE :*0 (1-F, A=0, 0=NoReport)

Enter 1 hexadecimal digit (1-F) that you desire to be reported as a zone trouble code (enter 0 if no trouble report is desired) and press ENTER to obtain:

CODE Reported for TBL.RESTORE [28

CODE :*0 (1-F, A=0, 0=NoReport)

Enter 1 hexadecimal digit (1-F) that you desire to be reported as a zone trouble restore code (enter 0 if no trouble restore report is desired) and press ENTER to obtain:

CODE Reported for ALARM REST. [29

CODE :*0 (1-F, A=0, 0=NoReport)

Enter 1 hexadecimal digit (1-F) that you desire to be reported as a zone trouble restore code (enter 0 if no alarm restore report is desired) and press ENTER to obtain:

CODE Reported for BYPASS [30

CODE :*0 (1-F, A=0, 0=NoReport)

Enter 1 hexadecimal digit (1-F) that you desire to be reported as a bypass (shunt) code (enter 0 if no bypass report is desired) and press ENTER to obtain:

CODE Reported for BYP.RESTORE [31]
CODE : *0 (1-F, A=0, 0=NoReport) Enter 1 hexadecimal digit (1-F) that you desire to be reported as a bypass restore code (enter 0 if no bypass restore report is desired) and press ENTER to obtain:

CODE Reported for OPENING [32]
CODE : *0 (1-F, A=0, 0=NoReport) Enter 1 hexadecimal digit (1-F) that you desire to be reported as an opening signal (enter 0 if no opening report is desired) and press ENTER to obtain:

CODE Reported for CLOSING [33]
CODE : *0 (1-F, A=0, 0=NoReport) Enter 1 hexadecimal digit (1-F) that you desire to be reported as a closing signal (enter 0 if no closing report is desired) and press ENTER to obtain:

IF 4160, proceed directly to Question 35

IF 4180:

CODE Reported for DURESS [34]
CODE : *0 (1-F, A=0, 0=NoReport) Enter 1 hexadecimal digit (1-F) that you desire to be reported as a duress code (enter 0 if no duress report is desired) and press ENTER to obtain:

CODE Reported for LOSS of AC [35]
CODE : *0 (1-F, A=0, 0=NoReport) Enter 1 hexadecimal digit (1-F) that you desire to be reported for a loss of AC power (enter 0 if no loss of AC report is desired) and press ENTER to obtain:

CODE Reported for LOW BATT. [36]
CODE : *0 (1-F, A=0, 0=NoReport) Enter 1 hexadecimal digit (1-F) that you desire to be reported as a low battery code (enter 0 if no low battery report is desired) and press ENTER to obtain:

CODE Reported for TEST [37]
CODE : *0 (1-F, A=0, 0=NoReport) Enter 1 hexadecimal digit (1-F) that you desire to be reported as a test code (enter 0 if no test report is desired) and press ENTER to obtain:

UNLIM. # of DIALING Attempts [38]
YES *NO Position the pointer to select whether or not the number of dialing attempts should be unlimited or be a programmable number and press ENTER.

IF YES is Selected, the display of Question 40 will appear

IF NO is Selected, The Following Display Appears:

DIALING Attempts (01-15) [39]
*08 Enter 2 digit (leading zero required) number (0-9) of dialing attempts (01-15) that the control should make before giving up trying and press ENTER to obtain:

ANTI JAM ENABLE [40]
*YES NO Position the pointer to select whether or not telephone anti-jam (called party disconnect of incoming calls) is to be enabled and press ENTER to obtain:

2nd ACCT No to 2nd Telco No. [41]
YES *NO Position the pointer to select whether or not the second subscriber account number should be routed to the secondary telephone number and press ENTER to obtain:

Type of DIALING [42]
*PulseDial TouchTone Position the pointer to select whether pulse (rotary) dialing or TouchTone dialing would be used and press ENTER to obtain:

Phone System [43]

*USA/Canada Other

Position the pointer to select the phone system in which this control will be used and press ENTER.

If USA/Canada is Selected, the Next Display to Appear Will Be that of Question 47.

If Other is Selected, the Following Display Will Appear:

DATA TONE Frequency (Hz) [44]

*USA/Canada(1900) Other(1890)

Position the pointer to select the North American (1900 Hz) or Foreign (1890 Hz) data tone frequency for Ademco Low Speed and press ENTER TO OBTAIN:

INTERDIGIT Time (msec) [45]

*USA/Canada(600) Other(830)

Position the pointer to select the North American (600 msec) or Foreign (830 msec) data interdigit time and press ENTER to obtain:

DIAL PULSE RATIO [46]

*USA/Canada(60/40) Other(67/33)

Position the pointer to select the North American (60/40) or Foreign (67/33) dial pulse On-To-Off Ratio and press ENTER to obtain:

DIAL Tone WAIT (Seconds) [47]

*Standard(5 or 11) Extended(30)

Position the pointer to select the time that the control should wait for dial tone before attempting to dial without detecting it and press ENTER.

If Extended is Selected, the Next Display Will Be the one Following Question 48.

If Standard is Selected, the Following Display Will Appear:

STANDARD Dial Tone Wait [48]

*5 Secs 11 Secs

Position the pointer to select which of the two standard dial tone waits is to be used (as a function of the phone system in which the control will be used) and press ENTER to obtain:

Review the Modified Data ?

Yes No

Position the pointer to select whether you want to review the data just entered by you or move ahead to the next programming task and press ENTER. If your selection is "Yes", the 699 will return to Question 1. If your selection is "No", the 699 will return to the Main Function Selection Display for the 4160 or 4180 COMMUNICATOR PROM.

C. Save

When the SAVE function is selected, the following display appears.

Select Type of PROM. Use → ←

*Red PROM Blue PROM

Make your selection, dependent upon the color of the PROM label and then press ENTER to obtain the following display:

Insert Red (Blue) PROM in Socket B

Hit ENTER To Start, ESC To Abort

Insert a blank 32 x 8 No. 691 PROM (BLUE or RED LABEL) in Socket B and then press ENTER.

If no PROM is inserted, then the following message appears:

Prom NOT Inserted

Insert New Prom and Hit ENTER

If a non-blank PROM is inserted, then the following message appears:

```
NON BLANK *Will be Modified*
ESC to abort, ENTER to continue
```

If you key ENTER, the system will continue and overwrite the PROM. It will then perform a verification pass. If the verification fails, the following message appears:

```
Prom Inserted Is Defective
Insert New Prom and Hit ENTER
```

If you hit ESC, the system will start from the beginning of the SAVE. Remove the first PROM and replace it by a known blank PROM and then press the ENTER key.

If a blank PROM is inserted, the system programs the PROM and then verifies the data programmed versus the original data held in the programmer. If the verification fails, the following message appears:

```
PROM Inserted Is Defective
Insert New PROM and Hit ENTER
```

Repeat the replacement procedure described above and program a new PROM. If the verification is successful, the following message appears briefly (for 3 seconds) before the system returns the user to the Main Function Selection Display:

"SAVE successful" followed by **"Remove PROM, Enter when ready"**. After removing the PROM, press ENTER to return to the main display.

D. Print*

When the PRINT function is selected, the following display appears:
(no initial values for time and date are provided)

```
Enter Current Time      (HH:MM)
  00:00
```

Key the correct time using the military time format (e.g. 18:00 = 6:00 PM) and press ENTER to obtain:

```
Enter Current Date      (MM/DD/YY)
  00/00/00
```

Key the correct date and press ENTER to obtain:

```
CONNECT PRINTER CABLE TO 699
ESC to Abort, ENTER when ready
```

The 699 will not proceed until printer cable is connected and the printer is ready/selected. Plug the interconnect cable into the telephone jack in the 699 and into the printer and then press ENTER to obtain:

```
PRINTING 41XX CTRL(DIALER) PROM DATA      : where XX = 80 or 60
                                           CTRL = CONTROL
```

If the printer gets deselected at this point in time or is not connected, the following display will appear within a short time:

```
PRINTER TIME OUT
ENTER to Retry, ESC to Exit.
```

If printing is successful, the PROM parameters will be printed.

If the printing is to be stopped while in process, press ESC. The printing will stop and the following display appears:

```
*** PRINT ABORTED ***
ENTER to Retry. ESC to Exit
```

***NOTE:** In order to interface a printer to the No. 699 Intelligent Programmer, obtain an optional No. 699PA Printer Adapter and connect it to the RJ11X plug at the end of the coiled cord, whose other end should be plugged into the **CABLE** jack on the face of the programmer. Plug the Adapter into any RS232C compatible, serial interface printer whose functional options can be

configured as follows:

- . Data Rate = 1200 baud
 - . Data Word = 11 bits w/1 start bit, 8 data bits, and 2 stop bits
 - . Parity = None, bit 8 will be supplied by the 699 as a data bit
 - . Clear To Send = "Space" when the Printer is Ready to Receive data.
- This signal should be available on pin 20 of the interface connector.

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