

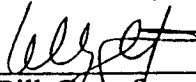


Date: December 16, 1993

To: 11 Branch Managers
All Tech Managers

From: Dennis Gillman 

Reviewed by:


Bill Gustafson


Steve Neace


Paul Schlichter

Subject: **Introduction of 1000C Panel**

Starting in January 1994, you will be receiving the BHS-1000C panels in your branches. These panels will replace the BHS-1000B panels we are currently installing. No more BHS-1000B panels will be made and the new panels will be shipped when we use all the remaining stock.

There are several differences in the new BHS-1000C panel. These changes are listed below and explained in detail on the following pages.

- a. Three Digit Codes
- b. Wrap Around Codes
- c. Violation at Expiration of Exit Delay Option
- d. Dialer Delay
- e. Cancel Command During Dialer Delay
- f. Arm Instant

Included in the following paper work is a programming chart and a page on how to test the new BHS-1000C panel.

Make sure all technicians are aware of the new panel and how to program it. Please make copies of these pages and distribute them at your next tech meeting.

NOTE: When you send a BHS-1000B mother board back to the factory for repair, you will receive a BHS-1000C mother board in return.

(Dennis/1000C)

BHS 1000C - Software Variations

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Page Two

5) Cancel Command (*Address 033*) During Dialer Delay;

If a valid code is entered followed by [#,I], during the dialer delay period, then dialer messages will be aborted. If a valid code is entered followed by [#,I], after the dialer delay period, the dialer messages will be transmitted along with a Cancel signal.

6) Arm Instant; (*Hard Coded*)

If the [#,I], "Instant" command is activated after arming, the 80 second exit time is immediately aborted, and all Entry/Exit doors act as if they were standard Instant doors. Unlike the "B"Panel that would still allow exit time and only the entry delay was aborted.

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ZONE CONFIGURATION**Zone 1 CC & OC**

Zone Type 000 0
 Zone Option 1 001 3
 Report Code 002 0
 Zone Option 2 003 1

Zone 2 CC & OC

Zone Type 004 0
 Zone Option 1 005 3
 Report Code 006 0
 Zone Option 2 007 1

Zone 3 CC & OC

Zone Type 008 3
 Zone Option 1 009 3
 Report Code 010 0
 Zone Option 2 011 1

Zone 4 CC & OC

Zone Type 012 3
 Zone Option 1 013 3
 Report Code 014 0
 Zone Option 2 015 1

Zone 5 CC & OC

Zone Type 016 2
 Zone Option 1 017 3
 Report Code 018 0
 Zone Option 2 019 1

Zone 6 CC & OC

Zone Type 020 2
 Zone Option 1 021 3
 Report Code 022 0
 Zone Option 2 023 1

Zone 7 CC & OC

Zone Type 024 14
 Zone Option 1 025 0
 Report Code 026 0
 Zone Option 2 027 0

Zone 8 CC & OC

Zone Type 028 14
 Zone Option 1 029 0
 Report Code 030 0
 Zone Option 2 031 0

ZONE DOUBLING ZONES**Zone 1 OC Reports Zone 10**

Zone Type 036 0
 Zone Option 1 037 3
 Report Code 038 0
 Zone Option 2 039 1

Zone 2 OC Reports Zone 11

Zone Type 040 0
 Zone Option 1 041 3
 Report Code 042 0
 Zone Option 2 043 1

Zone 3 OC Reports Zone 12

Zone Type 044 3
 Zone Option 1 045 3
 Report Code 046 0
 Zone Option 2 047 1

Zone 4 OC Reports Zone 13

Zone Type 048 3
 Zone Option 1 049 3
 Report Code 050 0
 Zone Option 2 051 1

Zone 5 OC Reports Zone 14

Zone Type 052 2
 Zone Option 1 053 3
 Report Code 054 0
 Zone Option 2 055 1

Zone 6 OC Reports Zone 15

Zone Type 056 2
 Zone Option 1 057 3
 Report Code 058 0
 Zone Option 2 059 1

Zone 7 OC Reports Zone 16

Zone Type 060 14
 Zone Option 1 061 0
 Report Code 062 0
 Zone Option 2 063 0

Zone 8 OC Reports Zone 17

Zone Type 064 14
 Zone Option 1 065 0
 Report Code 066 0
 Zone Option 2 067 0

KEYPAD CONFIGURATION**Duress / Hold-up Code**

Zone Type 072 9
 Zone Option 1 073 0
 Report Code 074 0
 Zone Option 2 075 0

Fire Dispatch Key

Zone Type 076 11
 Zone Option 1 077 0
 Report Code 078 0
 Zone Option 2 079 1
 Mast Code Repro En (8)

Medical Dispatch Key

Zone Type 080 5
 Zone Option 1 081 0
 Report Code 082 0
 Zone Option 2 083 1
 Exit Delay Tone Enable (8)

Police Dispatch Key

Zone Type 084 6
 Zone Option 1 085 0
 Report Code 086 0
 Zone Option 2 087 1

REPORTING OPTIONS

L. Batt Rest Code 088 0
 L. Batt Rest Opt 2 089 0
 L. Batt Report Code 090 0
 L. Batt Options 2 091 0
 AC Rest Rep Code 092 0
 AC Rest Options 2 093 0
 AC Loss Rep Code 094 0
 AC Loss Options 2 095 0
 Batt Extended Code 096 0
 AC Extended Code 097 0
 Reset Report Code 098 0
 Reset Options 2 099 0
 Auto Test Rep Code 100 0
 Auto Test Options 2 101 0
 Test Report Code 102 0
 Test Options 2 103 1
 Auto Test Ext. Code 104 0
 Man Test Ext. Code 105 0
 Cancel Report Code 106 0
 Cancel Options 2 107 0
 Reset Ext. Code 108 0
 Not Used 109 0
 Open Report Code 110 0
 Open Options 2 111 0
 ***Date Code Month 112 -
 ***Date Code Month 113 -
 Close Report Code 114 0
 Close Options 2 115 0
 Force Arm Code 116 0
 Force Arm Opt 2 117 0
 Part Arm Code 118 0
 Part Arm Opt 2 119 0
 ***Date Code Day 120 -
 ***Date Code Day 121 -
 Restore Code 122 0
 Restore Opt 2 123 0
 ***Date Code Year 124 -
 ***Date Code Year 125 -
 Trouble Code 126 0
 Trouble Opt 2 127 0

ZONE TYPES

0 - Exit / Entry
 (Doors)
 Reports Burg
 1 - Secondary Delay
 (OH door or E/E device only)
 Reports Burg
 2 - Instant
 (Door/Window)
 Reports Burg
 3 - Nomad
 (PIR's Only, Special F/A Prev)
 Reports Burg
 4 - Day / Night (24HR)
 (Line Cut)
 Reports Burg
 5 - Medical (24HR)
 (Panics)
 Reports Medical
 6 - Assault (24HR)
 (Panics)
 Reports Police
 7 - Silent Assault (24HR)
 (Panic)
 Reports Police
 8 - Auxiliary (24HR)
 (Temp Alert)
 Reports Auxiliary
 9 - Duress (24HR)
 (Panic / Code)
 Reports Hostage
 10 - Momentary Arm / Disarm
 (Key Switch)
 Non-Reporting
 11 - Fire (24HR)
 (Smoke / Heat / Panic)
 Reports Fire
 12 - Local (24HR)
 (Momentary Siren)
 Non-Reporting
 13 - Shunt Disarm / Arm
 (Key Switch)
 Non-Reporting
 14 - Non-Existent
 (Unused Zone)
 Non-Reporting
 15 - Special Disarm
 (Key Switch)
 Non-Reporting

ZONE OPTIONS 1

Restore Report Enable 8
 Trouble Report Enable 4
 Chimes Enable 2
 *Dialer Delay Enable 1

REPORT CODES

These fields are not used when reporting in the SIA format and should be left a null value. (Address 150 when set to 4 Enables SIA reporting)

ZONE OPTIONS 2

**Double Dispatch Key Enable 4
 Phone 2 Report 2
 Phone 1 Report 1

NOTES

* Does not apply to Cabinet/Tamper, Line Cut, or Duress/Hold-Up.
 ** Double dispatch key enablement can only be programmed in locations 079, 083 and 087.
 *** Date Code represents version of software that is labeled on microprocessor.
 Entering "00" in a location is a null.

SPECIAL FEATURES**Cabinet/Tamper**

Zone Type 032 14
 Zone Option 1 033 1
 Cancel Command Enable (1)
 Report Code 034 0
 Zone Option 2 035 4
 Dialer Warning Enable (8)
 E/E Zone Violation Warn (4)

Line Cut Type

Zone Type 068 14
 Zone Option 1 069 0
 Report Code 070 0
 Code Option 071 12
 3-Digit Code Enable (8)
 Wrap Around Enable (4)

NOTES ON LINE CUT

The Line Cut monitor checks the phone line every two minutes for voltage loss. If voltage is lost, then it is verified for two additional minutes. This causes the delay to be between two to four minutes depending on when loss has occurred between the initial two minute checks.

To enable Line Cut Monitor program a (4) in address (069). If Panel is disarmed, then a trouble indication will be given at the keypad. If the Panel is armed, then the siren will sound. No signals will be sent, this is a local alarm only.

PHONE 1		
Phone 1	128	1
"	129	8
"	130	10
"	131	10
"	132	0
"	133	0
"	134	0
"	135	0
"	136	0
"	137	0
"	138	0
"	139	0
"	140	0
"	141	0
"	142	0
"	143	0

ACCOUNT 1		
Account 1	144	0
"	145	0
"	146	0
"	147	0

PHONE 1 OPTIONS		
Dialing Attempts	148	8

See PHONE PROGRAMMING		
Phone Options 1	149	1
Phone Options 2	150	4
Phone Options 3	151	4

PHONE NOTES		
Put "0" in unused locations		
Put "10" for dialing a "0"		
Put "13" for second dial tone		
Put "14" for dialing ""		
Put "15" for a 5 second pause		

PHONE 2		
Phone 2	160	0
"	161	0
"	162	0
"	163	0
"	164	0
"	165	0
"	166	0
"	167	0
"	168	0
"	169	0
"	170	0
"	171	0
"	172	0
"	173	0
"	174	0
"	175	0

ACCOUNT 2		
Account 2	176	0
"	177	0
"	178	0
"	179	0

PHONE 2 OPTIONS		
Dialing Attempts	180	0

See PHONE PROGRAMMING		
Phone Options 1	181	0
Phone Options 2	182	0

PANEL OPTIONS		
See PANEL PROGRAMMING		
Panel Options 0	183	15
Panel Options 1	184	0
Panel Options 2	185	8

ACCESS CODES		
Aux 1	192	0
"	193	0
"	194	0
"	195	0
Aux 2	196	0
"	197	0
"	198	0
"	199	0
Aux 3	200	0
"	201	0
"	202	0
"	203	0
Aux 4	204	0
"	205	0
"	206	0
"	207	0
Aux 5	208	0
"	209	0
"	210	0
"	211	0
Aux 6	212	0
"	213	0
"	214	0
"	215	0
Installer Test	216	4
"	217	7
"	218	4
"	219	9
Special Disarm	220	0
"	221	0
"	222	0
"	223	0
Master	224	1
"	225	2
"	226	3
"	227	4
Duress	228	0
"	229	0
"	230	0
"	231	0
Download Answer	232	1
"	233	10
"	234	10
"	235	10

DEFAULT PROGRAMMING		
Not to be changed	254	10
Frozen LOAD	255	10
10 = No Change		
05 = Test Program		
01 = Brinks Default		

PHONE PROGRAMMING		
PHONE OPTIONS 1 (149)		
Dialer Disable	8	
Extended Report	4	
Multiple Report	2	
DTMF Dialing	1	
PHONE OPTIONS 2 (150)		
SK4+2 Format	8	
SIA Format	4	
Radionics Format	2	
20 PPS Format	1	
10 PPS Format	0	
PHONE OPTIONS 3 (151)		
Ans Mach Bypass	4	
Dutch	1	

PANEL PROGRAMMING		
PANEL OPTIONS 0 (183)		
False Alm Prev	8	
Force Nomad	4	
No ELOR	2	
Strobe Latch	1	
PANEL OPTIONS 1 (184)		
Bypass After DL	8	
Zone Doubling	4	
Pwr Up Arm Aft DL	2	
Silent Burg Alarm	1	
PANEL OPTIONS 2 (185)		
Quick Arm Enable	8	
Defer Test Mess	4	
Abort Enable	2	
Phone 2 Backup	1	

DELAY OPTIONS

RESTORAL TIME		
Restoral Timer	152	5
Do Not Program	153	-

SIREN ALARM TIME		
Burg Alm Time Out	186	5
Fire Alm Time Out	187	5

DELAY TIMES		
Ring Count (Xx1)+	236	0
Ring Count (Xx16)	237	1
Ring Time (Xx1)+	238	2
Ring Time (Xx16)	239	0

DELAY TIME RANGES		
Burg Alm Time Out	0-15 Min	
Fire Alm Time Out	1-14 Min	
Fire Alm Continuous	= 15	
Exit Time	0-255 Sec	
Entry Time	0-255 Sec	
Second Entry Time	0-255 Sec	
Dialer Delay	0-255 Sec	
AC Loss Delay	0-255 Min	
Test Mess Interval	0-255 Days	

MISC. ZONE OPTIONS

[#],[1] Manual Bypass Enable		[#],[0] Standard Bypass En.	
See Table 1	154 14	See Table 1	188 8
See Table 2	155 15	See Table 2	189 1
Fast Zone Enable		Special Disarm Zone Enable	
CC See Table 1	156 0	See Table 1	190 0
CC See Table 2	157 0	See Table 2	191 0
OC See Table 1	158 0		
OC See Table 2	159 0		

ZONE SELECTION TABLES

Table 1		Table 2	
Zone 3 Enable	8	Zone 7 Enable	8
Zone 2 Enable	4	Zone 6 Enable	4
Zone 1 Enable	2	Zone 5 Enable	2
Zone 8 Enable	1	Zone 4 Enable	1

Exit Time (Xx1)+	240	0
Exit Time (Xx16)	241	5
Entry Time (Xx1)+	242	8
Entry Time (Xx16)	243	2
Sec En Time (Xx1)+	244	0
Sec En Time (Xx16)	245	0
Dialer Delay (Xx1)+	246	4
Dialer Delay (Xx16)	247	1
AC Loss Dly (Xx1)+	248	0
AC Loss Dly (Xx16)	249	0
Test Mes Int (Xx1)+	250	0
Test Mes Int (Xx16)	251	0
Test Offset (Xx1)+	252	0
Test Offset (Xx16)	253	0

TIME ENCODING TABLE		
Times	=	(Xx1) + (Xx16)
0	=	0
10	=	10
20	=	4
30	=	14
40	=	8
50	=	2
60	=	12
70	=	6
80	=	0
90	=	10
100	=	4
110	=	14
120	=	8
180	=	4
240	=	0
255	=	15

TESTING THE BHS-1000C

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Testing BHS-1000C:

- 1) [#] [7] and wait for CONFIRMATION. CONFIRMATION = Short siren blast & beep from Keypad. If confirmation is not received then troubleshoot and begin with step 1 again.
- 2) 474, trip in this order: Police, Medical, Fire on Keypad. Then 474 to exit test mode, [#] [9] to trip Cancel. Wait for CONFIRMATION.
- 3) Enter 474, [#] [5] (To make zones Instant) & Trip all the Zones. Enter 474 to exit test mode, and wait for CONFIRMATION.

Note: If a Smoke/Heat detector is installed disconnect & reconnect the red wire powering the detector in order to trigger a trouble code, then trip the Smoke/Heat detector. If a Heat only detector is used on a different zone from the Smoke/Heat detector then trigger another trouble code by disconnecting & reconnecting one of the loop wires to the heat detector at the control panel.

Other Notes (Same as BHS-1000B):

Phone Line Cut Monitor (Chargeable feature) - To enable, program as follows:

Zone Type (068) = 4 (To enable Day Night loop)

In the disarmed state, a trouble condition will exist (if violated 2-4 minutes). If armed, only a local alarm will sound. It will not report to Brinks. Alarm will automatically clear when phone line is restored.

Unused Zones - Program all unused zones as Zone Type ([14] Non-Existent), jumpers will not be necessary.

EOLR - No EOLR (RESISTORS) are used unless zone is programmed as a Fire.

Fire Zone - If a Fire is enabled then the following programming changes must be made to meet UL requirements:

- | | | |
|--------------------------|--------------------------------|------------------|
| 1) Zone Type = 11 | (To enable zone 8 for Fire) | Address 028 = 11 |
| 2) Zone Options 1 = 4 | (To enable zone 8 for Trouble) | Address 029 = 4 |
| 3) Trouble Options 2 = 1 | (To enable Trouble report) | Address 127 = 1 |
| 4) L.B. Options 2 = 1 | (To enable Low Batt report) | Address 091 = 1 |

BHS-1000C Software Variations from "B"Panel

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Default Programming changes; (These Options must be left enabled)

- A) Three Digit Codes, enabled
- B) Wrap Around Code, enabled
- C) Violation at Expiration of Exit Delay Option, enabled
- D) Dialer Delay By Zone, enabled for 20 seconds on burglary zone types only
- E) Cancel Command During Dialer Delay, enabled
- F) Exit Time, is now set for 80 seconds

1) Three/Four Digit Code Option; (Address 071)

This makes all codes become three digits. If a code is "1234" then it will become "123". This also includes the installer test code "4749" will then become "474".

2) Wrap Around Code Option; (Address 071)

Allows code to be accepted if the last 3 or 4 digits are correct. This eliminates having to use [F], [0], to clear an invalid code. Example: (With Three Digit Code Enabled) If the code is "123" and "3123" is entered this would be accepted as a valid code. The panel will only look at the last 3 digits entered. Like the "B"Panel, the Wrong Code Lockout will still activate after five invalid attempts. The BHS-1000C determines this by the total number of 0-9 keys pressed, once 15 keys have been pressed without a valid code, the Lockout is then enabled.

3) Violation at Expiration of Exit Delay Option; (Address 035)

Any Entry/Exit door, if left ajar, will trigger an alarm at the end of the programmed exit delay time.

4) Dialer Delay; (Address 246,247, and Zone Options 1)

Reporting of messages will be delayed for programmed dialer delay time. This option is only to be used on burglary zone types. If another burglary zone type is added, then the dialer delay must also be activated for that zone by adjusting "Zone Options 1". Also if a non-burglary zone type is programmed, then the dialer delay for that zone must be disabled by adjusting "Zone Options 1".