Dear Tech-Man Subscriber:

ADEMCO apologizes for any misunderstanding that has arisen due to our recent decision to have our technical information removed from the Tech-Man web site. You may appreciate that one of our key concerns is to provide installing security dealers with timely and accurate information on our products, and we were concerned about the data posted to the Tech-Man web site. For obvious reasons, we also do not wish unauthorized individuals to have access to information on installing and configuring ADEMCO systems. These concerns were what prompted us to ask Tech-Man to stop posting ADEMCO installation instructions and user manuals.

Several of you have written us to ask that we reconsider this decision. We have. We will not require Tech-Man to remove the ADEMCO data. ADEMCO, however, is not responsible for the operation and maintenance of this site - thus we cannot guarantee the timeliness or accuracy of the information posted on the Tech-Man web site.

The ADEMCO web site is located at www.ademco.com and contains accurate timely data about our products. You may request a PIN number for access to the ADEMCO Technical Support web site and FAXBACK system.

If you need assistance on troubleshooting, or if you have other technical questions about our products not addressed in the information posted at our web site, please contact ADEMCO Technical Support at 800-645-7492.

Thank you for understanding.

Sincerely,

Herb Lustig

No. 1026 ALARM PROCESSING CENTER

GENERAL INFORMATION:

The No. 1026 Alarm Processing Center is a local alarm panel with the following features:

Basic Supervised Protection Zone for Normal and Fast Acting Perimeter and Interior Devices.

Entry/Exit Zone with 45 (or 30) Second Entry and Exit Delay Times. Supervised.

24 Hour Emergency (Panic) Circuit.

LED Indication of Zone Status, A.C. Power and Alarm Memory (indicates alarm has taken place and bell has timed off).

Outputs for Bell(s) or Electronic Siren(s), Closure of Dry Contacts, and (Optional) Early Warning Horn.

Automatic Alarm Cut-off and Restore.

Bell and Battery Test Switch.

Includes Low Voltage Plug-in Transformer and Built-in Rechargeable Power Supply.

System Turned ON and OFF from any SPST Keyswitch (e.g.: Nos. 5073, 4073, 2174). Remote Station(s) may be used instead (see ACCESSORIES at end of these instructions).

The No. BC1026 is similar to the No. 1026 except it is housed in a larger cabinet that provides room for optional installation of a No. WS669 or WS670 Digital Communicator Shielded Circuit Board or other accessories.

INSTALLATION AND WIRING: See Figure 1

Do not connect the battery or plug-in transformer until all other wiring has been completed.

A WHITE jumper is provided at the top of the chassis. If this jumper is cut it will shorten the factory provided entry delay, exit delay and "bell" cut-off times as tabulated in Figure 1.

Terminals	Wiring Information
1,2,3,4	Basic Protection Zone (Double Loop): Run a pair of wires from terminals 1 and 2 to all protection points in this zone and return to terminals 4 and 3 respectively. Connect protection devices into the two loops as follows:
2,3	Normal Response Loop (Basic Protection Zone): Connect closed circuit contacts of normal acting devices (such as magnetic contacts, foil, etc.) in series with this loop. Maximum permissible resistance: 300 ohms.
1,4	Fast Response Loop (Basic Protection Zone): Connect closed circuit contacts of fast acting devices (such as vibration contacts and photoelectric units without built-in delays) in series with this loop. Maximum permissible resistance: 300 ohms.

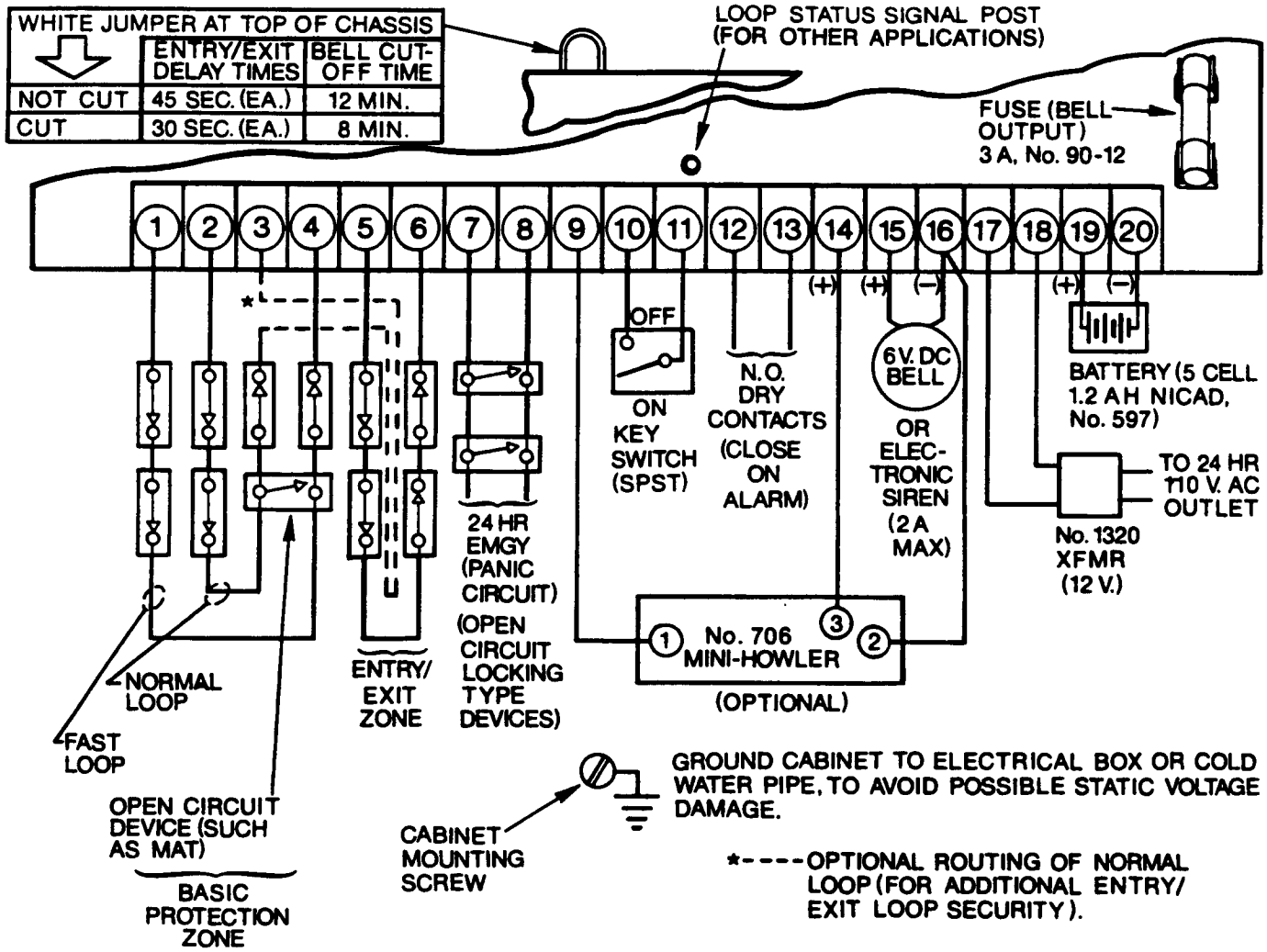

FIGURE 1: Field Connections

1,4 (cont'd) Notes: An open in either of these loops, or a short between loops will cause an immediate alarm when the system is ON.

Devices with open circuit contacts (such as mats) may be connected between these loops (or into the fast response loop with an Ademco No. 602 Mat Coupler).

5,6 Entry/Exit Zone: Connect closed circuit contacts on the entry/exit door as well as interior contacts or sensors located in the path between the exit door and the control in a series wiring loop across these terminals. Maximum permissible loop resistance: 300 ohms.

This zone provides entry and exit times of 45 seconds each (30 seconds if the WHITE jumper is cut per Fig. 1).

For additional security (against shorts and grounds) the Basic Protection Zone's normal response loop may be routed along with the entry/exit loop as shown in Figure 1. A short between these loops will result in an immediate alarm when the system is ON.

7,8 Emergency (Panic) Switches: Connect locking type open circuit emergency switches (such as Nos. 264, 266, 268 or 269) in parallel across these terminals.

Operation of an emergency switch at any time (system OFF or ON) will cause the alarm bell(s) to ring and the output contacts to close. Alarms activated from emergency switches do not cut off until the switches are reset.

9,14(+),16(-) No. 706 Mini-Howler (Optional): Connect as shown in Figure 1. The mini-howler will sound: 1) During the entry delay period. 2) In case of accidental closing with the entry/exit zone open. 3) If an alarm occurs in the entry/exit zone while the panel is ON. In this last case, the No. 706 will sound until the alarm bell cuts off or the entry/exit loop returns to normal (whichever occurs later). Be sure the jumper on the No. 706 is cut before wiring the mini-howler to the panel.

10,11 Keyswitch: Connect a single pole single throw keyswitch with key removable in "make" and "break" positions across these terminals (OFF position: Contacts CLOSED, ON position: Contacts OPEN). A knockout is provided on the cover of the cabinet for mounting.

Suggested keyswitches: No. 2174 (Flat Key), No. 4073 (Round Key), No. 5073 (Higher Security, Pick Resistant).

Instead, remote station(s) showing system status may be used via adapters. See ACCESSORIES.

12,13 N.O. Dry Contacts: These contacts may be used to trip a digital communicator, telephone dialer or as desired. The contacts close on alarm (burglary or emergency) and open upon bell cut-off (burglary) or when emergency (panic) switches are manually reset. (The contacts do not close during bell test.)

15(+), 16(-) 6 V.DC Bells or Electronic Sirens having a combined total rating of 2 amperes may be connected in parallel across these terminals. If electronic sirens are used, observe polarity.

Note: Except during an emergency (panic) alarm, cut-off occurs after approximately 12 minutes (8 minutes if the WHITE jumper is cut per Fig. 1). The Alarm Memory LED remains lit. If the protective circuits are then normal the unit will report any subsequent alarm condition.

17,18 Power Input, 12 V.AC: Turn the keyswitch to its OFF position and connect these terminals to the output terminals of the No. 1320 Transformer. Do not plug in the transformer yet.

Ground Ground the cabinet to an electrical box or cold water pipe.

19(+), 20(-) Standby Battery: After all other wiring is completed, and with the keyswitch OFF, connect the battery to these terminals.

Caution: Observe polarity. First connect (+) battery to terminal 19. Next connect (-) battery to terminal 20. Do not let the battery leads touch other terminals.

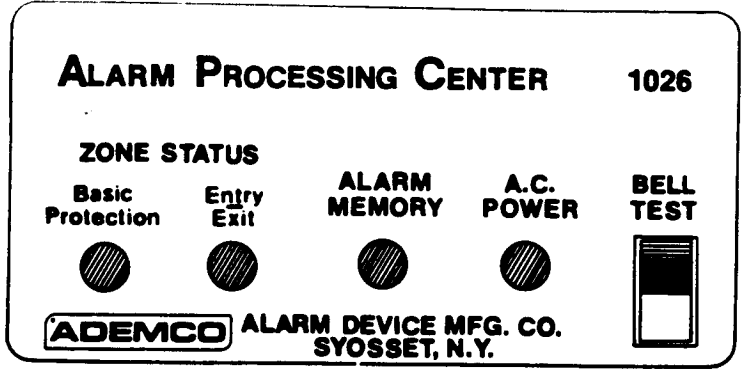

FIGURE 2: Indicators

TESTING AND CHECKOUT:

Perform these tests after the wiring and connections described in the previous section have been completed.

The keyswitch should still be OFF and the standby battery must be connected.

1. Plug the transformer into a 115V. AC outlet that is ON 24 hours a day. The AC Power LED should light.

2. Observe the Zone Status LED's. Neither will be lit if the protective loops are properly wired and all contacts are properly set.

3. When both Zone Status LED's are out, do the following and observe the appropriate LED light in each case:

   a. Open the fast response loop momentarily. The Basic Zone LED should light while the loop is open.

   b. Open the normal response loop momentarily. The Basic Zone LED should light again.

   c. Open the entry/exit loop momentarily. The Entry/Exit Zone LED should light.

   d. Short the fast and normal loops momentarily. The Basic Zone LED should light momentarily.

   e. Short the normal and entry/exit loops momentarily. The Entry/Exit LED should light momentarily.

4. Test the Bell(s) and Standby Battery by depressing the Bell Test Switch momentarily. The bell(s) should ring while the switch is depressed.

   Note: The battery may not be fully charged. If this test is tried with a low battery there will not be enough power to ring the bell. Let the unit charge (transformer plugged in) for at least one half hour if the battery is low.

5. Test the Emergency (Panic)Circuit by momentarily shorting terminals 7 and 8 or tripping an emergency switch. The bell(s) should ring only as long as the short remains.

6. Turn the system ON and simulate leaving the premises by following the procedure given in the OPERATION section.

NOTE: If an alarm is tripped during testing, the bell(s) can be silenced by turning the keyswitch to OFF.

7. Simulate entering the premises and turn the system OFF by following the procedure given in the OPERATION section.

OPERATION:

When Turning System ON:

1. AC Power LED should be lit at all times. If out, AC failure to unit is indicated.

2. Zone Status LED's should be off. If lit, protective loop is not set properly.

   Caution: If either Zone Status LED is lit, turning the keyswitch ON will cause an alarm immediately in the case of the Basic Protection Zone or after 90 seconds (exit plus entry delay times) for the Entry/Exit Zone (60 second if the WHITE jumper has been cut). In the latter case, the No. 706 Mini-Howler (if installed) will sound a warning immediately that an alarm can be avoided if the keyswitch is returned to OFF before 90 (60) seconds have expired.

3. Depress Bell Test Switch to test bell and standby battery.

4. Turn Keyswitch ON to arm system. Leave via entry/exit door within 45 (30) seconds.

When Turning System OFF:

1. Enter only through entry/exit door. If a No. 706 Mini-Howler has been installed it will sound during the entry delay period.

2. Note if Alarm Memory LED on panel is lit (it will be if an alarm has taken place).

3. Turn Keyswitch OFF before end of entry delay period.

Note: The Zone Status LED's on the No. 1026 will go on and off as the protective loops open and close during normal operation of doors, windows, etc., while the system is OFF.

SPECIFICATIONS:

		No. 1026	No. BC1026
Physical:	Width:	8" (20.3 cm)	8" (20.3 cm)
	Height:	8" (20.3 cm)	15" (38.1 cm)
	Depth:	2" (5.1 cm)	3" (7.6 cm)
Electrical:	Voltage:	12 V.AC (From No. 1320 Plug-in Transformer)	
	Current (per Loop):	4 ma	
	Maximum Resistance (per Loop):	300 ohms	
	Bell Circuit Output:	2 A maximum at 6 V.DC, (3 A Fuse, No. 90-12)	
	Output Relay Contacts:	SPST, 3 A rating	
	Standby:	5 cell NiCad Rechargeable Battery, 1.2 A.H (Ademco No. 597) Up to 60 hrs. standby (may be less with accessory load).	

ACCESSORIES:

Instead of using a keyswitch to control the panel, up to 4 remote stations (e.g.: Nos. 214, 231, 246, 246R, 5231 or 5246) may be used via a No. 244 Remote Station Adapter (each remote station shows system status via a single LED).

Alternatively, the following are available for coded pushbutton control of the No. BC1026:

No. 215 Two Wire Digital Remote Station with Panic Circuitry (up to 4 can be used, via a No. 216 Adapter)

or

No. 227 Single Button Digital Remote Station (up to 5 can be used, via a No. 228 Adapter)

or

No. 5241 Self-Contained Digital Remote Station (single unit only can be used).

Complete information is contained in the individual installation instruction for the above.

Other accessories may be used if they do not draw more than 30 ma continuous current (at 6V. DC) from terminals 14 (+) and 16 (-). Total current of alarm (including alarm sounding device) should not exceed 2 amperes.