OPERATING GUIDE FOR YOUR MAGNUM ALERT-900 SECURITY SYSTEM
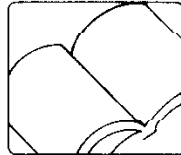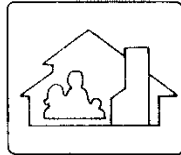
NAPCO

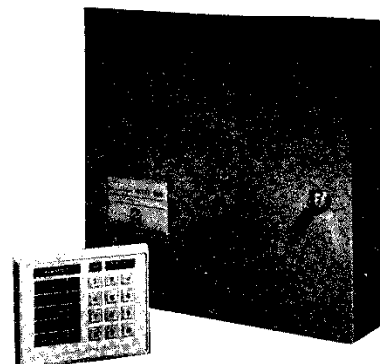You have taken a major step in protecting your home or business by having a Napco Magnum Alert-900 Alarm Control Center installed. Please read this guide thoroughly to familiarize yourself with your new security system. Keep this booklet handy for future reference. Note especially the ALARM PLAN on page 15. Your alarm specialist will help you fill it out and explain the various features and operating procedures for your new Magnum Alert-900.

NOTICE

You'll probably find items mentioned in this booklet which do not apply to your system. DON'T WORRY!

The Napco Magnum Alert-900 has such a wide variety of features that few, if any, security systems will ever need them all. Your alarm professional has chosen appropriate features for your situation. Ask him about them.

Your Magnum Alert-900 is carefully designed and engineered to the highest industry standards. To provide optimum safety and security with this equipment, we recommend that the user become thoroughly familiar with the unit and periodically check its condition and state of readiness.

GLOSSARY OF TERMS

Abort Delay
A delay period that allows the system to be reset before it reports to a central station.

Alarm Plan
Identifies the areas of your premises protected by each zone of protection and lists zone features. (See page 15)

Ambush Code
A two digit code used before an arm/disarm code that causes a silent report to be sent to a central station.

Arming/Disarming
Turning your system ON or OFF. This can be done by entering a code on the Digit-Key keypad, or by turning an optional key-switch.

Arm/Disarm (Personal) Codes
Up to 8 four digit codes used to arm and disarm the system from the keypad.

Battery
Standby battery is placed in the Control Center box to provide backup protection in the event of a power loss.

Central Station
Monitors incoming burglary and emergency messages from a Digital Communicator, and alerts the proper authorities. (optional feature)

Control Center
The heart of the Magnum Alert-900 security system; it controls all system functions.

Digital Communicator
Reports burglary and emergencies directly to the central station over telephone lines.

Digital Keypad
Napco's Digit-Key keypad puts Control Center functions at your fingertips. It can be mounted either at the Control Center or anywhere in your premises.

Exit/Entry Delay
Lets you exit and enter your premises without setting off an alarm after the system is armed.

Hold Down Function
Digit keys have secondary functions which are activated by holding down a digit until a beep is heard.

Keypad Program Code
A 3 to 6 digit code used to enter or change the arm/disarm codes at the keypad.

Mini-Sounder
Buzzer at each Napco Digit-Key keypad warns that entry delay time has started. It also sounds when you attempt to arm the system if a particular zone is in "trouble". It also verifies contact with a central station (optional).

Panic Buttons
Two buttons (* and #) on the Digit-Key keypad which will alert the central station of an emergency.

Report
A communication sent to a central station indicating a specific change in condition of the security system (alarm, trouble, low battery, etc.). (optional)

Shunt Button
Labelled "S" on the Digit-Key keypad. Lets you manually remove one or more protective zones from the system.

Zones
Independent circuits that protect specific areas of your premises.

Auto Shunted Zone: A zone capable of being automatically bypassed (shunted) out of the protection system if it is in "trouble" (faulty) when you attempt to arm the system.

Burglary Zones: Detect intrusion.

Day Zone: A zone programmed to cause visual and audible (optional) indication at the Digit-Key keypad when it is in "trouble" during the disarmed period.

Exit/Entry Follower Zone: Provides exit and entry delay for interior devices. Entry delay only occurs if re-entry takes place through the normal exit/entry door.
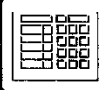
Group Shunt Zones: A group of zones programmed so they can be manually bypassed (shunted) all at once.

Priority Zones: When a zone selected for the feature is in "trouble" it will be impossible to arm the Control Center.

Selective Shunted Zones: Zones that can be individually bypassed (shunted) using the Shunt Button.

Trouble Zones: Zones that cannot be armed because of an open window, door or other problem in the area.

24 Hour Zones: Are always armed and ready at all times to respond to an emergency situation.

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Indicator Lights

NUMERICAL DISPLAY

- Flashes Digits 1 thru 9 - indicates which non-24 hour zones are in an alarm condition, and which day zones are in a trouble condition.
- Flashes "0" - indicates a priority condition (armed with a priority zone in trouble, armed without resetting the display's memory or armed without AC power available to the system).

ARMED/ALARM (Red)

- Steady - system is armed.
- Flashes - alarm on a non-24 hour zone.
- Flashes (fast) - exit/entry delay cancelled.

STATUS (Green)

- Steady - system disarmed, all non-24 hour zones OK.
- Flashes - trouble on any non-24 hour zone.
- Flashes (fast) - trouble on a day zone.

SHUNT (Yellow)

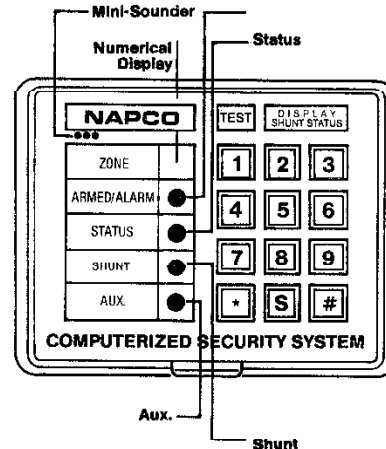- Steady - one or more zones manually shunted (bypassed).

AUX (Bottom Red): See pages 13 and 14 if labeled other than "AUX" or "AUX ZONE".
- Steady - zone in alarm condition
- Flashes - zone in trouble condition.

Mini-Sounder

- Steady Tone: a priority condition exists.
- Steady Tone (when entering): entry delay in progress.
- Beep (2 seconds): a zone has been auto shunted upon arming the system.
- Pulsing: a day zone or auxiliary zone (if used) is in trouble.

(To stop Mini-Sounder "Trouble" warnings, hold down Key 9 for 2 seconds.)

Keys

NOTICE: Keys 1-9 must be held down for 2 seconds (until mini-sounder beeps) to perform their designated "Hold-Down" ("key") functions.

Key 1: TEST
Momentarily sounds the burglar alarm from the battery. If no alarm is heard, or if it is weak, the battery may need replacing. Use this test weekly. (To perform this function the key *must* be held down until a beep is heard.)

Key 2: DISPLAY SHUNT
Numerically displays zones (1 to 9) that have been shunted with the "S" key. To perform this function the key *must* be held down until a beep is heard, and then continued to be held down until all zones are displayed.

Key 3: DISPLAY STATUS
Numerically displays zones (1 to 9) that are in "trouble". To perform this function the key *must* be held down until a beep is heard, and then continued to be held down until all zones are displayed.

Key 4: INSTANT PROTECTION
Cancels the exit/entry delay periods when arming. The delay is restored after you disarm the system. (To perform this function the key *must* be held down until a beep is heard.)

Key 5: START EXIT DELAY WITHOUT RINGBACK
Allows you to manually start the exit delay if you have the "Exit Delay After Ringback" feature programmed into your system. (To perform this function the key *must* be held down until a beep is heard.)

Key 6: COMMUNICATOR CONFIDENCE TEST
(Only for systems programmed to communicate with a central station.) Pressing the key tests your phone lines. The mini-sounder will start to pulse. If the line is good, the pulsing will stop; if not, a steady tone will occur. (To perform this function the key *must* be held down until a beep is heard.) Reset the mini-sounder with Key 9.

Key 7: FAULT FIND
Used by installers so that opening and closing a zone (such as a window or door) will cause the mini-sounder to sound for 2 seconds. This is helpful for testing zones and finding "swingers" (the cause of intermittent false alarms). Arming will cancel Fault Find. (To perform this function the key *must* be held down until a beep is heard.)

Key 8: PROGRAM
Allows you to enter the programming mode. Once in this mode you can program up to 8 arm/disarm codes and an access control code. Refer to "Selecting Your Codes" on page 7 for more information. (To perform this function the key *must* be held down until a beep is heard.)

Key 9: RESET
Resets any mini-sounder indication, AC power loss indication, a priority zone trouble indication; or may be programmed to reset latched detection devices. After an alarm occurs and the system is disarmed, a numerical display will still indicate which non-24 hour zones caused the alarm. Use key 9 to clear the display. (To perform functions the key *must* be held down until a beep is heard.)

Key S: SHUNT
Momentarily press key to manually bypass (shunt-out) a zone or zones. Refer to "Arming With Selective Zone Shunting", page 10 for more information.

Keys * and #: PANIC BUTTONS
Momentarily pressing these keys will activate the panic zone. Refer to "Panic Zone", page 10 for more information.

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UNDERSTANDING
YOUR SECURITY SYSTEM

Your Magnum Alert-900 Security System has three basic components:

1. Zones

Your system contains nine burglary zones, 2 pre-set 24 hour zones (can be used for ambush, panic, etc.) and an auxiliary zone. (Auxiliary zones are not always used in each system. Check with your alarm professional.)

Each zone is an independent circuit that protects specific areas of your home. For example: your alarm specialist may have set aside a zone for window protection, exit/entry delay, interior space protection, safe and valuables protection or emergencies. Each zone can be "programmed" to react in a specific manner. Check and be certain that you know what each zone protects.

2. The Digit-Key Keypad

Lets you program arm/disarm codes, arm and disarm the system, check the condition (status) of each zone, temporarily bypass (shunt) individual (or a group of) zones, send an ambush alarm, cancel exit/entry delay, test the battery and alarm device, reset detection devices, reset a priority condition, reset a day zone condition and test your phone line.

Four lights, a mini-sounder and a numerical display on the Digit-Key keypad monitor the system.

3. The Alarm Output

When any zone is activated, the Control Center responds by sounding an audible alarm and/or alerting a central station (optional). Your alarm specialist has programmed your system to react in a specific manner to each type of emergency. Be sure you understand how your system responds to these emergencies.

The Digit-Key Keypad

All security system operations are carried out at the keypad. Each key has a special function of its own (see "DIGIT-KEY KEYPAD CONTROLS" page 5) plus the ability to arm and disarm the system when they are used in a pre-selected combination (codes).

Personal (Arm/Disarm) Codes

You can choose up to 8 four digit codes which will allow you to arm and disarm your system. Any of these codes can easily be changed, thus allowing temporary guests, baby-sitters, employees, etc., access to the premises. When no longer needed, the codes can be changed or removed from service.

Your security system can not be disarmed by unauthorized persons. It will respond only when a code of your choosing is entered through the keypad.

Selecting Your Codes

After your alarm specialist installs your system he will give you a "Master Code" and show you how to program your Personal Codes.

1. Press Key 8 (hold for two seconds). This puts the system into its Programming Mode.

2. Enter your Master Code into the keypad. When the keypad accepts your Master Code it will flash its top three lights and pulse the mini-sounder.

3. You may now program up to 8 Personal Codes:
   A) Press Key "S"
   B) Press the Personal Code User's Number (1-8)
   C) Enter a four digit Personal Code
   Examples:
   - S + 1 + Four digit First User's Personal Code
   - S + 2 + Four digit Second User's Personal Code
   - S + 3 + Four digit Third User's Personal Code

- S + 4 + Four digit Fourth User's Personal Code
- S + 5 + Four digit Fifth User's Personal Code
- S + 6 + Four digit Sixth User's Personal Code
- S + 7 + Four digit Seventh User's Personal Code
- S + 8 + Four digit Eighth User's Personal Code

You do not have to use all eight Personal Code options. Use as many as you need. Change them as often as you feel necessary.

4. To end the programming mode, press key "S" twice.

Access Control Codes (optional)

If so installed, this code will release an electric door switch. The code is programmed as a Personal Code with a User's number of 9.

Example: to program enter S + 9 + any four digit code.

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Checking AC Power

If the top three lights of your keypad are blinking slowly, you have lost AC power. Check to see if there has been a general power outage, or if the Control Center's transformer is disconnected. If you must operate without AC power, press Key 9 to stop the lights from blinking. Next test your standby battery by pressing Key 1. If the alarm doesn't sound, or is weak, replace battery. Always check your battery weekly.

Arming The System Before You Leave

Test your battery by using Key 1. Check the green status light at the Digit-Key keypad. If it glows steadily, enter your code. The red armed/alarm light will come ON and the green light will go OFF. If your system is programmed for "Audible Test On Arming", the alarm will sound for 2 seconds, a short while after arming.

Leave immediately through the exit/entry delay door before the delay time runs out. If you wait too long, the mini-sounder will warn that the entry delay has started. To avoid causing an alarm, quickly return to the keypad and enter your code to reset the control panel. You may then arm the system again.

System Does Not Respond to Personal Code

If after an extended power failure your personal codes do not work, you can temporarily use the "Fall-back" code to operate the system. To restore personal codes, see page 7 "Selecting Your Codes".

Arming With A Zone In Trouble

A flashing green status light indicates that at least one non-24 hour zone is in trouble. That is the zone is in an open or shorted condition. If the zone has been programmed to be a day zone, the zone will also display numerically and the mini-sounder will be pulsing. Any zone (1 through 9) in a troubled condition can be displayed numerically by pressing Key 3. Try to fix the zone by closing any open windows or doors. If a day zone has been in trouble, reset the day zone indication by pressing Key 9. The green light will then glow steadily and the system is ready to be armed.

In the case where a zone cannot be fixed immediately, it still may be possible to arm without the protection of that zone. Check your alarm plan. If auto-shunt has been selected for the zone in trouble, simply arm your system. A short beep will be heard from the keypad's mini-sounder. This indicates that a zone has been auto-shunted; meaning it cannot now cause an alarm.

If the zone has been programmed for selective shunt, pressing the "S" key, and then the number of the zone (1 through 9) will manually shunt that zone. Group shunt zones are a group of zones that can all be manually shunted together at the same time simply by pressing the "S" key twice. You may use Key 2 to

numerically display selective or group shunted zones.

You will not be able to arm your system if: 1) a zone selected as a priority zone is in trouble, 2) a numerical display indication is still flashing (from a previous alarm or day zone alert), or 3) if the top three lights are flashing due to an AC power failure.

If you attempt to arm. the mini-sounder will come ON steadily and a zero will be displayed. Enter your code again, and reset the digital display memory or AC failure indication by holding down Key 9, (Remember to test your battery!). Zones selected to be "priority with bypass" may be bypassed by using reset before arming. Be certain to have all zones in trouble fixed quickly.

Disarming When You Return

When you enter through the Exit/Entry door, the mini-sounder will come ON steadily for the entire entry period. Disarm the panel quickly, using your arm/disarm code. If there has been an extended power failure all arm/disarm codes will be erased. If your alarm specialist has wired your system to come back in an armed state, you may use your pre-programmed "Fallback" code to disarm the system.

If there has been an alarm on a non-24 zone, the armed/alarm light will be flashing and the zone number will be displayed on the numerical display. even after you disarm. To reset the display, press Key 9.

Once the system is disarmed, the red armed/alarm light will go OFF, and the green light will come ON (or flash if a zone is in trouble). If you enter the wrong code, you must wait 2 seconds before reentering your code.

If an alarm has occurred on a 24 hour zone, there will be no indication. The cause of the alarm must be determined and removed before you rearm your system. Remember, zones (1 through 9) that are in trouble can be displayed by holding down Key 3.

Ambush Code

If an intruder forces you to disarm your system, enter your pre-programmed two digit ambush code BEFORE your arm/disarm code. This activates your ambush zone which is usually programmed to send a silent alarm to a central station. (This is an optional feature.)

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Arming With Selective Zone Shunting

Your alarm specialist may have opted for one or more zones that can be selectively shunted (removed) from the system. Since a shunted zone cannot cause an alarm, you may wish to use this feature to turn OFF the interior areas while arming, and keeping your perimeter zones (windows, doors, etc.) active.

To arm, check the green light to make sure no zone is in trouble. Press the shunt button (labeled "S"), and then the number of the zone (1 through 9) you wish to shunt.

Your alarm specialist may also have opted for interior zones to all be "group shunt" zones. Shunt these zones simply by pressing the "S" key twice. The yellow shunt light will come ON whenever yo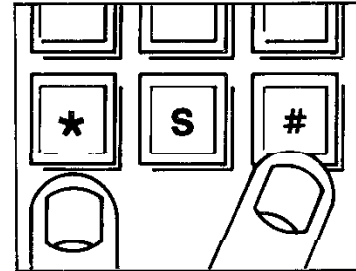u shunt one or more zones. Enter your arm/ disarm code to arm your remaining zones. The green light will go OFF, and the red armed/alarm light will come ON. The yellow light will go OFF when you disarm again indicating that the shunted zones are no longer shunted. (Note: The shunt light does NOT come on when zones are auto-shunted.)

Arming With Instant Protection

Pressing key 4 (until you hear a beep) will cancel the exit/entry delay on the exit/entry zone when arming. The red armed/ alarm light will flash rapidly to indicate this condition. If someone enters through the exit/entry zone, an alarm will sound immediately.
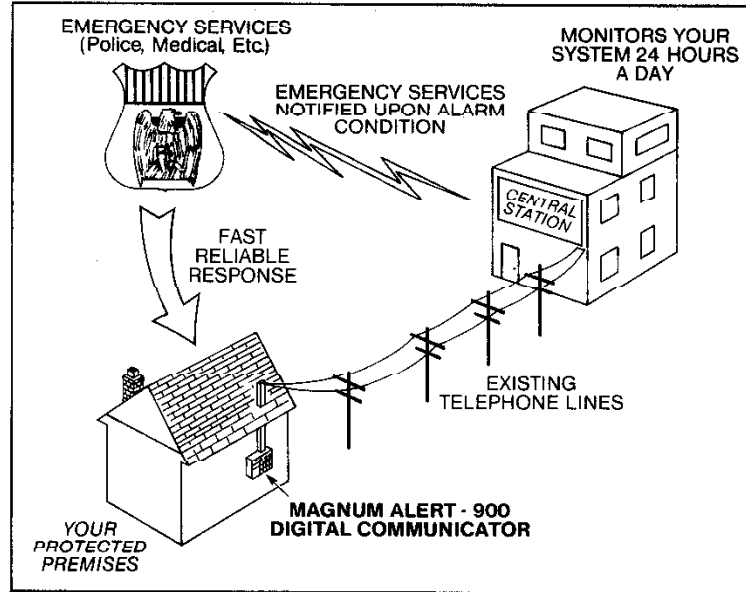
Panic Zone

To activate the panic zone, simultaneously press the two keys marked * and # on the Digit-Key keypad. The panic zone can be programmed to send a silent alarm to a central station, activate an audible alarm, or both.

Your Alarm Specialist may have programmed your security system to be monitored by a central station. The built-in digital communicator can transmit emergency signals to the central station 24 hours a day.

EMERGENCY SERVICES
(Police, Medical, Etc.)

EMERGENCY SERVICES
NOTIFIED UPON ALARM
CONDITION

MONITORS YOUR
SYSTEM 24 HOURS
A DAY

CENTRAL
STATION

FAST
RELIABLE
RESPONSE

EXISTING
TELEPHONE LINES

MAGNUM ALERT - 900
DIGITAL COMMUNICATOR

YOUR
PROTECTED
PREMISES

TEAR HERE

11

COMMUNICATOR FEATURES

Abort Delay

Note which zones on your alarm plan have abort delay. This is a 16 second delay that enables you to reset the system before a zone condition report is sent to the central station. Non-24 hour zone reports are stopped by arming and then disarming. 24 hour zones, however, must first be repaired.

Opening and Closing Reporting

An optional feature that permits the central station to receive a signal each time the system is armed, disarmed or both (up to 8 individual users can be identified).

Central Station Ringback

The central station will acknowledge the fact that you have armed your system by "Ringing back" with a short beep of the mini-sounder. If the exit/entry delay is programmed to start after ringback, you must wait a while for this signal before leaving. If you suspect trouble on your phone line, test it by pressing Key 6. If you do not obtain ringback, you can manually start exit delay by using Key 5 (see page 5).

Testing the Telephone Lines

To check your telephone connection with the central station press Key 6. Once pressed, a pulse tone will be heard from the mini-sounder. If the phone line is good the sound will silence in a few seconds. If not, a continuous tone will sound. The mini-sounder can be silenced by pressing Key 9.

FIRE PROTECTION

The following information is applicable only where local ordinance permits use of your alarm Control Center for fire detection.

Controlling Your Fire Circuit

If your alarm specialist installed smoke detectors or heat sensing thermostats, you have 24 hour fire protection. Your Control Center will constantly monitor this zone for any alarm or trouble condition.

Fire Alarm

An alarm on the fire zone will cause the bottom red light to glow steadily and the mini-sounder to pulse constantly. Your fire alarm will sound, overriding any other alarm.

Fire Zone Trouble

If there is trouble on your fire circuit, the bottom red Fire/Trouble light will flash, and the mini-sounder

will pulse constantly after a 10 second delay. To silence the sounder, press Key 9. The light will continue to flash to indicate the trouble (you may use Key 7 to annunciate when the trouble is repaired). After the trouble is repaired, press Key 9 again to turn OFF the light.

Resetting After An Alarm

The fire alarm may be reset by arming, and then disarming; or (if so programmed) by waiting for it to automatically shut off. The mini-sounder and the Fire/Trouble light will stay ON. Press Key 9 to silence the mini-sounder. If smoke has not cleared from a smoke detector, or a thermostat has not cooled, the red fire/trouble light will remain ON. Press Key 9 every 8 seconds until the condition has cleared and the light goes OFF.

Would You Like More Safety Information?

For information on home fire detection, burn safety, and home fire safety, contact the National Fire Protection Association, Public Affairs Dept. 05A, Batterymarch Plaza, Quincy, MA 02269.
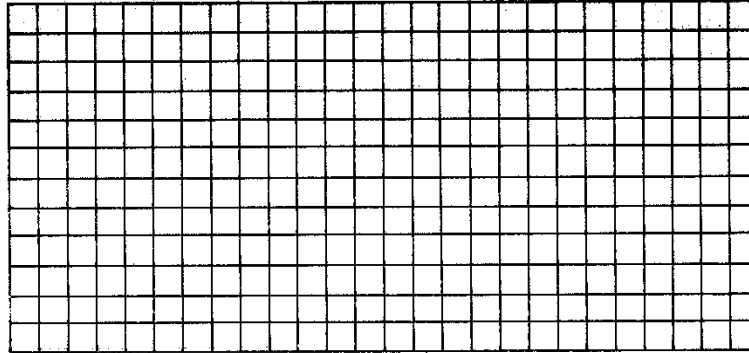
TEAR HERE

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Even with the most advanced fire alarm system, adequate protection requires an escape plan. To prepare your plan:

Draw floorplans of your building. Show two exits - a front or back door and a window from each room. (Make sure the window works. You may need a special fire escape ladder if the window is high up.) Write down your outside meeting place.

Family Rehearsal

Rehearse each of the following activities:

1) Everyone in their room with the doors closed.
2) One person sound the alarm.
3) Each person tests his door.
4) Pretend the door is hot and use the alternate escape exit.
5) Everyone meet outdoors at the assigned spot.

IMPORTANT! - Read Carefully

Discuss these escape procedures with those who use the building.

1) In a residence, sleep with the bedroom door closed. A closed door will hold back deadly smoke while you escape.

2) When the fire alarm signals, escape quickly. Do not stop to pack.

3) Test the door. If it is hot, use your alternate route through the window. If the door is cool, brace your shoulder against it and open it cautiously. Be ready to slam the door if smoke or heat rush in. Crawl through smoke, holding your breath. Close the doors again on leaving to help prevent the fire from spreading.

4) Go to your specific outdoor meeting place so you can see that everyone is safe.

5) Assign someone to make sure nobody returns to the burning building.

6) Call the fire department from a neighbor's telephone.

ALARM PLAN

Zone	Area Protected	Zone Features	Contacts (doors, windows, etc.)
1			
2			
3			
4			
5			
6			
7			
8			
9 Exit/Entry			
Panic			
Ambush			
Aux.			

Central Station _____ **Telephone** _____
(Optional)

Service Person _____ **Telephone** _____ 15

NAPCO LIMITED WARRANTY

NAPCO SECURITY SYSTEMS, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for fifteen months following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

In case of defect, contact the security professional who installed and maintains your security system. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges.

In order to exercise the warranty, the product must be returned by the user or purchaser, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty.

There are no warranties, express or implied, which extend beyond the description on the face hereof. There is no express or implied warranty of merchantability or a warranty of fitness for a particular purpose. Additionally, this warranty is in lieu of all other obligations or liabilities on the part of NAPCO.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. In no case shall NAPCO be liable to anyone for any consequential or incidental damages for breach of this or any other warranty, express or implied, even if the loss or damage is caused by the seller's own negligence or fault.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. NAPCO neither assumes, nor authorizes any other person purporting to act on its behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall NAPCO be liable for an amount in excess of NAPCO's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise, nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage. If the user wishes to protect itself to a greater extent, NAPCO will, at user's sole cost and expense, obtain an insurance policy to protect the user, supplemental to user's own policy, at a premium to be determined by NAPCO's insurer upon written notice from user by Certified Mail, Return Receipt Requested, to NAPCO's home office address, and upon payment of the annual premium cost by user.

Some states do not allow limitations on how long an implied Warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

THE FOLLOWING STATEMENT IS REQUIRED BY THE FCC.

This equipment generates and uses radio-frequency energy and, if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class-B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be

determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient the receiving antenna; relocate the computer with respect to the receiver; move the computer away from the receiver; plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402; Stock No. 004-000-00345-4.