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OPERATION and INSTALLATION INSTRUCTIONS

RP-1002 ZONE EXPANSION INDICATOR STATION for MAGNUM ALERT-800 and CCI-8DD ALARM CONTROL CENTERS

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The RP-1002 Zone Expansion Indicator Station provides the additional indication necessary to operate two Napco MAGNUM ALERT-800 or CCI-8DD control centers from a common keypad and thereby expand the number of usable zones to 12 for installations requiring more than 6 zones of coverage. Each control center is individually programmed and wired to provide zone indication, alarm output and communicator reporting capability for its group of 6 zones.

OPERATION

ARM/DISARM CODES

Although it is recommended that both of the control centers be wired to accept different arm/disarm codes, it is possible to use one code to arm and disarm them together. Each method requires different wiring connections, and different code loading and arming procedures. (See Wiring section, Figure 1 for one arm/disarm code, Figure 2 for two arm/disarm codes.)

Loading codes:

- (1) Put the RUN/LOAD switch of the control center with the RP-1003P keypad in the LOAD position. Leave the switch on the control center with the RP-1002 Zone Expansion Indicator Station in the RUN position.
- (2) Enter the code through the keypad.
- (3) Return the switch in the LOAD position to the RUN position.
- (4) If loading a different code for the control center with the RP-1002, put its RUN/LOAD switch in the LOAD position and enter its code from the RP-1003P keypad. Return the switch to the RUN position.

Arming/Disarming

Both control centers are armed and disarmed from the RP-1003P keypad.

Warning: When arming or disarming each control center with a different code, wait 5 seconds after entering the first code before entering the second.

If a priority zone on one control center has trouble, only that control center will be prevented from arming.

If arming with zones in trouble, watch STATUS indicators on both the RP-1003P keypad and the RP-1002 carefully, to determine whether zones on both control centers have been auto-shunted.

INDICATION, PANIC ALARMS AND SHUNTING

Keypads and Zone Expansion Indicator Stations provide light and Mini-Sounder indication, panic buttons and manual zone shunting for the control center to which they are connected. Panic alarms will occur on Zone Five of the first control center only.

CENTRAL STATION REPORTING

Telephone line terminals are wired in series between the two control centers, giving both full reporting capability, including low battery condition, opening and closing reports. Transmission codes are programmed separately on the subscriber PROM for each control center, and all events can have different codes for each control center.

Since incoming telephone lines are connected directly to the first control center, it will have reporting priority. Fire, panic and other high priority alarm devices should be wired to this first control center, as shown in Figures 1 and 2.

Each control center must have its own standby battery. Low battery condition can be reported with a different event code for each battery.

ALARM DEVICE OUTPUT

The two control centers can supply common alarm output devices, separate devices, or a combination of common and separate devices. Fire alarms occur on Zone Six (Auxiliary Zone) of the first control center only. Alarm outputs are separately selected for each zone on the subscriber PROM of the control center to which that zone is connected. Alarm time out can be different for each control center.

PROGRAMMING

Zone features, alarm outputs, timing periods and transmission information are programmed for the first 6 zones on the subscriber PROM for the first control center. All programming for the second 6 zones is separately programmed on the subscriber PROM for the second control center. Only the first control center can be used for panic or fire protection.

Different exit and entry delay times can be programmed for each control center, if both have zones selected for exit/entry delay. An exit/entry door that is further from the keypad may then be given longer exit/entry delays. If using different delay times: (1) Use shorter exit/entry times and the shortest exit/entry path for the first control center (which has priority in seizing the telephone lines). (2) Be sure no detection devices (such as passive infrared detectors) connected to a zone on one control center lie in the exit/entry path of the other control center. (3) Tell the end-user the exit and entry time periods on each exit/entry door.

If one arming code (Figure 2) is used to arm or disarm both control centers simultaneously:

- (1) Program Relay Closure With Key On (8 in location 111) on the PROM for the second control center, (to which the RP-1003P keypad is connected).
- (2) Select Maintain Key (1 in location 118) on the PROM for the first control center, to which the RP-1002 is connected.
- (3) If fire protection is also required:

- (a) On both PROMs, program timed alarm output for burglary zones and alarm time out period.
- (b) If using a single bell for both fire and burglary alarms, program pulsing alarm output for the auxiliary (fire) zone of the first control center only.

MOUNTING

Follow the instructions in the manual provided with the control centers to locate and mount the two cabinets. The two control centers must be mounted within 3 feet of each other.

Two Arm/Disarm Codes (Figure 1): Connect all RP-1003P Keypads to the first control center and RP-1002 Zone Expansion Indicator Stations to the second control center. Use no keyswitches or RP-1003L Keyswitch Stations.

One Arm/Disarm Code (Figure 2): All RP-1002 Zone Expansion Indicator Stations are connected to the first control center. All RP-1003P Keypads, keyswitches and RP-1003L Keyswitch Stations must be connected to second control center.

Optionally use the square knockout on the cabinet doors of each control center.

Mount remote RP-1002 indicator stations next to remotely located keypads and keyswitch stations, so that indicator lights for both control centers can be viewed from the same locations. Backplate (Napco order number RPB-1) are available for mounting RP-1003P keypads; junction box (Napco order number RPB-2) mounting are available for RP-1003P, RP-1003L and RP-1002 stations.

If an RP-1003U Fire Supervision and Indicator Station is used, it is mounted either remotely or on the cabinet door of the first control center, to which it must be connected.

WIRING

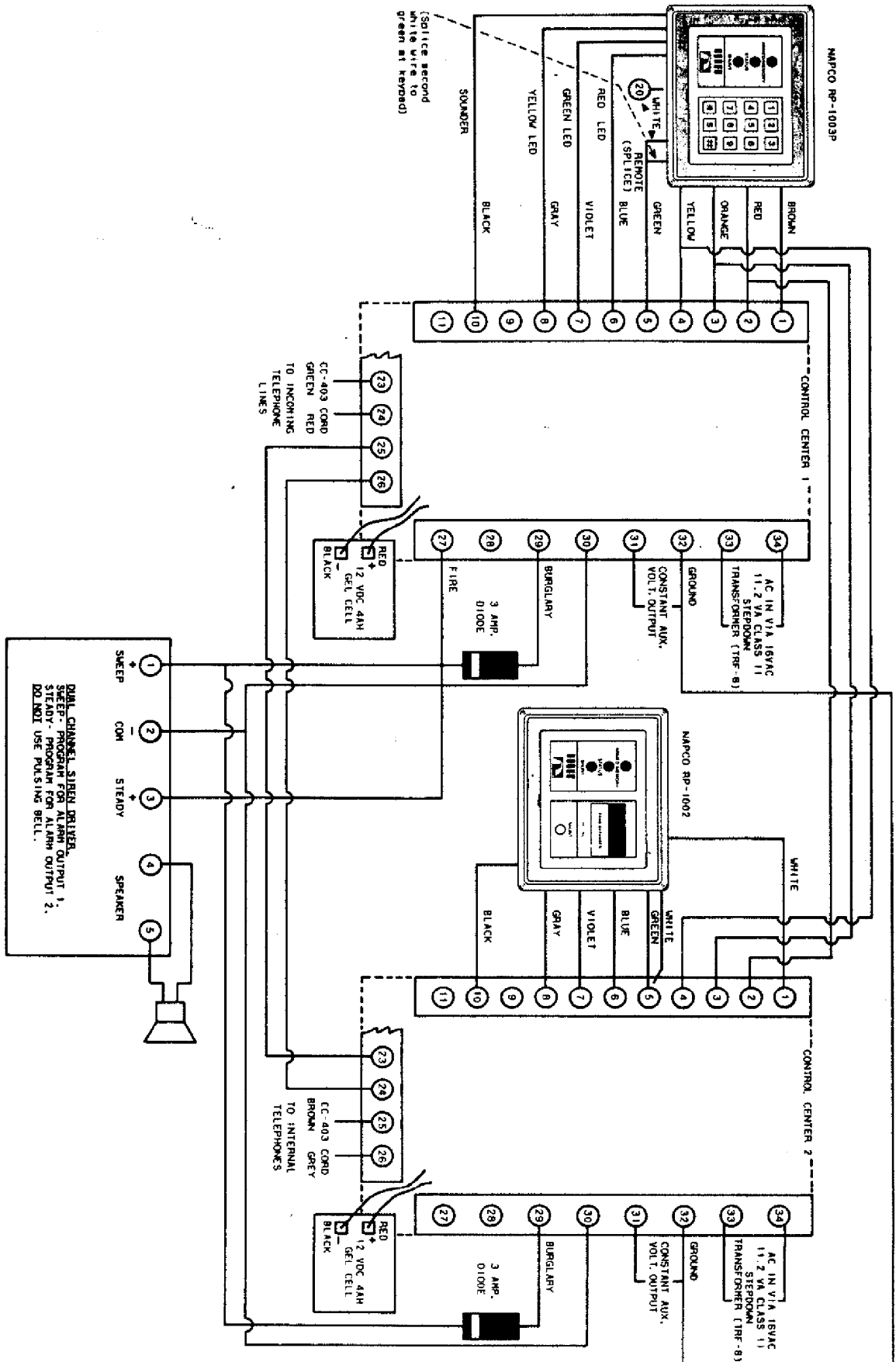


FIGURE 1: KEYPAD AND ZONE EXPANSION INDICATOR STATION WIRING REQUIRED WHEN USING TWO DIFFERENT ARMING CODES. OPTIONAL SHARED SIREN CONNECTIONS.

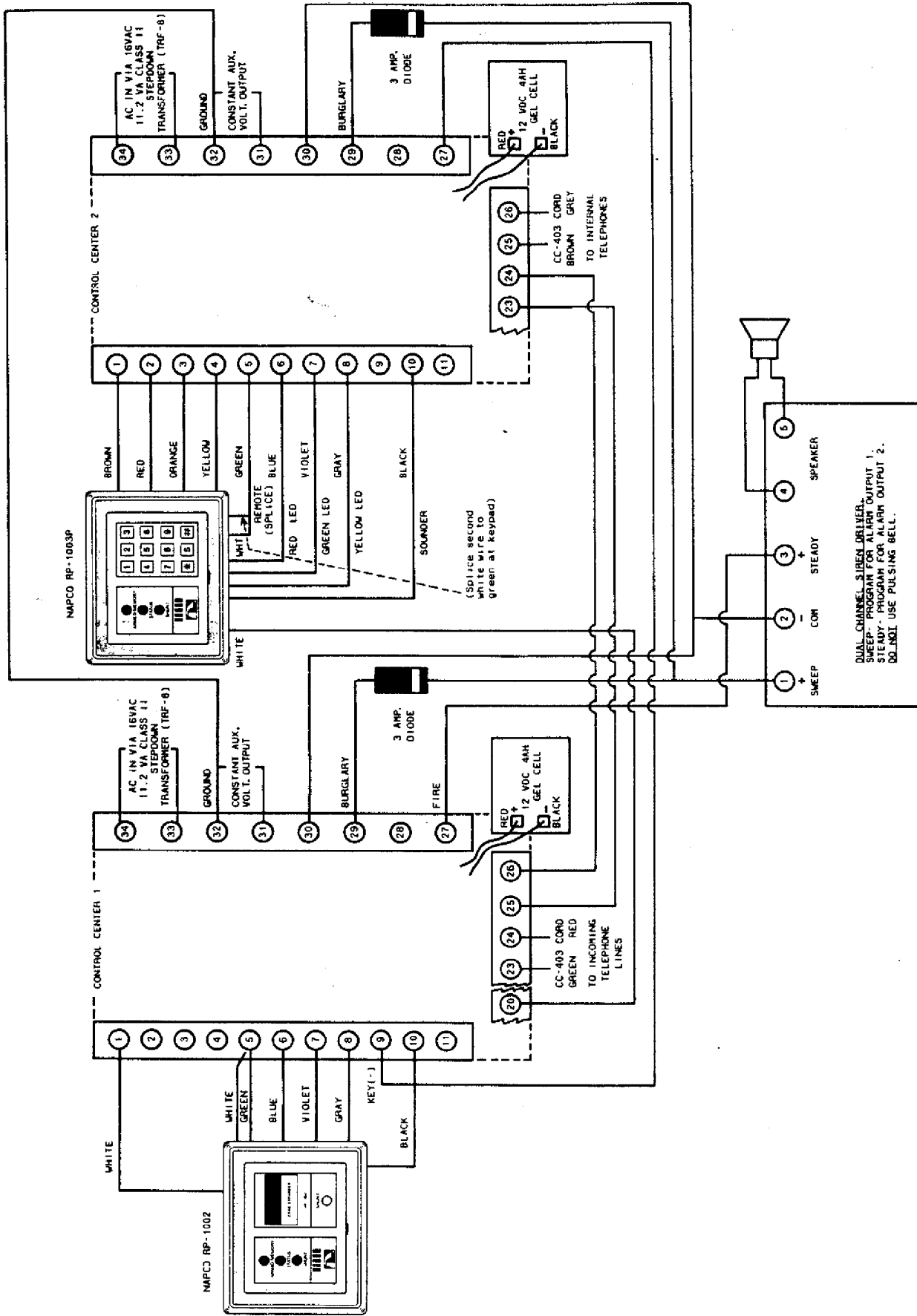


FIGURE 2: KEYPAD AND ZONE EXPANSION INDICATOR STATION WIRING REQUIRED WHEN USING ONE ARMING CODE FOR BOTH CONTROL CENTERS. (NOTE CONNECTION FOR WHITE PANIC WIRES FROM KEYPAD.)

OUTPUT 2 CANNOT BE USED FOR ALARM DEVICE ON SECOND CONTROL CENTER.

TERMINALS

WIRING INFORMATION (SEE FIGURES 1 and 2)

Arming Options

(A) Two Arming Codes (Figure 1)

If each control center is to be armed with a different code:

1 to 8, 10, 20
(first control center)

(1) One or more RP-1003P keypads are connected in parallel to the first control center. Connect one white wire to terminal 20 of the first control center to activate keypad panic input.

(2) Use no keyswitches or keyswitch stations. Terminal 9 is not used.

1, 5 to 8, 10
(second control center)

(3) Connect all RP-1002 Zone Expansion Indicator Stations to the second control center.

2 to 4

(4) Connect terminals 2-4 in parallel between the two control center terminal strips.

(B) Single Code Arming (Figure 2)

If one code is to be entered to arm or disarm both control centers together:

1, 5 to 8, 10
(first control center)

(1) Connect all RP-1002 Zone Expansion Indicator Stations to the first control center. Use no keyswitches or keyswitch stations on the first control center.

1 to 8, 10 (second control center),
20 (first control center)

(2) Connect all RP-1003P Keypads to terminals 1 to 8 and 10 on the second control center. Connect one white keypad wire to terminal 20 of the first control center to activate keypad panic input.

1 to 10 (second control center)

(3) Connect all keyswitches to terminals 5 (+) and 9 (-) and all RP-1003L Keyswitch Stations (terminals 1 to 8 and 10) of the second control center. One white RP-1003L wire is connected to terminal 1 and the other is spliced to the RP-1003L green wire.

9 (first control center),
27 (second control center)

(4) Connect a wire terminal 9 (key) of the first control center and between terminal 27 (normally alarm output 2) of the second control center. Note that alarm output 2 on the second control center can no longer be used.

Programming is required for single code arming. (See Programming section of these instructions.)

When properly programmed, the relay on terminals 27 and 30 of the second control center will close when the code is entered from the keypad or a key is turned to arm both control centers, providing voltage to the key input of the first control center.

23 to 24
25 to 26

Incoming Telephone Lines

Internal Telephone

Prepare a Napco CC-403 telephone cord as follows: Remove the lugs at the end of the CC-403 brown and gray wires. Another length of wire long enough to reach the second control center must be added to the brown wire and to the gray wire. Connect the extra lengths with wire nuts or (preferably) by soldering and insulating the exposed portions with electrician's tape.

Connect terminals 23-24 of the first control center to the green and red, respectively, of the CC-403 cord.

Wire terminals 25-26 from the first control center in parallel with terminals 23-24 of the second control center.

Connect terminals 25-26 of the second control center to the brown and gray wires of the CC-403 telephone cord.

NOTE: Do not plug the free end of the CC-403 cord into the telephone company RJ31X jack until after power is applied to both control centers.

27 to 30

Alarm Output Options

Panic (Zone Five) and Fire (Zone Six - Auxiliary Zone) alarms can occur on only the first control center.

Note: If one code is to be used to arm/disarm both control centers, output two (terminals 27 and 30) will be unavailable as an alarm output on the second control center.

Alarm output devices can be shared between the two control centers, each control center can use separate devices, or a combination of common and separate devices can be used.

A common siren driver and speaker (terminals 27, 28 and 30) can be used to signal alarms on both control centers if one of the 3 amp. diodes supplied with the RP-1002 is connected between terminal 29 of each control center and the sweep terminal of the device. Figures 1 and 2 show one siren connected to signal both fire and burglary on the first control center and burglary on the second.

Alternatively, a single bell can be used to signal alarms on both control centers (terminals 29 and 30) if one of the 3 amp. diodes supplied with the RP-1002 is connected between terminal 29 of each control center and the positive lead to the device. The bell may be programmed for timed alarm output for burglary zones of either control center and pulsing alarm output for the auxiliary

zone of the first control center, if both fire and burglary signals are required.

32 (-)

Ground

Wire terminal 32 of both control centers together.
NOTE: This connection must be made before any power can be applied to either control center.

33 to 34

AC Power

To supply AC operating power to each control center, connect a separate Napco TRF-8 (16 VAC, 11.2 VA) or TRF-9 (16 VAC, 20 VA) Class II stepdown transformer to each across terminals 33 and 34. Use of any transformer other than the Napco TRF-8 or TRF-9 may result in damage, or improper operation of the control center.

Each transformer must be plugged into an outlet that provides 24-hour continuous power.

NOTE: Do not apply power until terminal 32 is connected between the control centers.

Battery Leads

Standby Battery

Connect a separate 12 volt DC 4 or 5 AH rechargeable Gel-type or 'Starved Electrolyte' YUASA type battery to the flying leads on the circuit board of each control center. Observe polarity: red lead (+), black lead (-).

Napco Limited Warranty

NAPCO SECURITY SYSTEMS, INC. (NAPCO) warrants each of its products to be free from manufacturing defects in materials and workmanship for fifteen months following the date of purchase. 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 accident, nuisance (flood, fire or acts of God), or on which any serial numbers have been altered, defaced or removed. Seller 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 at its offices at 6 DiTomas Court, Copiague, New York. 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 of 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.

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This warranty shall be construed in accordance with the Laws of the State of New York.

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