

No.1005 CONTROL INSTRUMENT

GENERAL INFORMATION:

The No. 1005 is a closed circuit control intended for direct connection to a leased telephone line to a Modularm, Mini-Modularm or other remote station system. The central office reversing relay is built-in.

The control can ring a local bell or the bell may be omitted for a completely silent alarm.

Hold-up devices, if connected, will provide a silent alarm during the day and ring the bell as well during the night.

An automatic telephone dialer or digital communicator may be actuated in lieu of the control's connection to a leased telephone line.

Leads are provided for the easy (optional) connection of a No. 355 Entry/Exit Time Delay Module. Its adjustable time delays of 10-35 seconds upon entering and exiting eliminate the need for shunt locks.

INSTALLATION: (See Diagrams A, B and C)

Control Terminal Connections:

Terminals

1,2

BELL: Use a 6V.DC Bell (such as No. 1011 Bell-in-Box) or Low Current Drain Electronic Siren (such as No. 700). OBSERVE POLARITY, particularly with electronic siren. Sounding device may be omitted if silent alarm only is desired.

A,B

TELEPHONE LINE POWER: If telephone line resistance is below 1250 ohms (approximately 2-3 miles), follow Diagram A. A single No. 497 Recharge-A-Pack (or No. 492 for greater standby capacity) can power telephone line, bell and protection circuits.

If telephone line resistance exceeds 1250 ohms (more than 3 miles), Diagram A can still be followed if a No. 349 Telephone Line Voltage Booster is introduced between these terminals and the No. 497's (or 492's) terminals 3 and 4 (Instructions accompany the No. 349). Alternatively, Diagram B may be followed, using separate voltage sources for the telephone bell and protective circuits as shown.

If Entry/Exit Time Delay is desired, follow Diagram C.

3,4

ALARM CIRCUIT: Provide 6 V.DC across these terminals as shown, whether or not a local bell is used. OBSERVE POLARITY.

C, D

TELEPHONE LINES: Connect leased telephone line directly across these terminals. The central office reversing relay is built into the control.

FOR ACTUATION OF TELEPHONE DIALER OR DIGITAL COMMUNICATOR IN LIEU OF LEASED LINE TO REMOTE SYSTEM, SEE INSTALLATION NOTE 1.

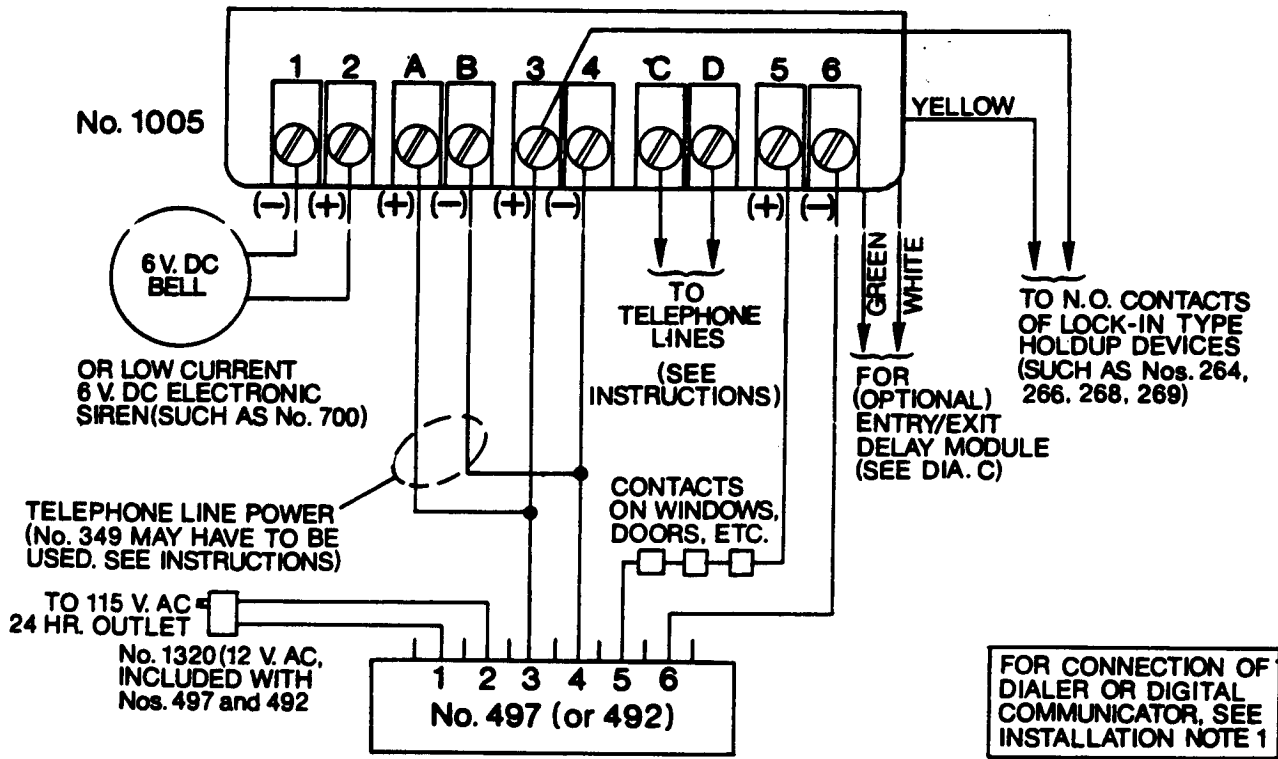


DIAGRAM A. Using No. 497 Recharge-A-Pack (or No. 492 Battery Pack)

- 5,6 PROTECTIVE CIRCUIT: Connect contacts and power as shown in Diagrams A or B or (with entry/exit delay) Diagram C.
- 3 & Yellow Lead HOLD-UP CIRCUIT: Connect N.O. contacts of lock-in type hold-up devices in parallel across these terminals (e.g. Nos. 268 and 269 Hold-up Switches, No. 266 Footrails, or No. 264 Money Clips).
- Green & White Leads ENTRY/EXIT TIME DELAY: If used, connect these leads to a No. 355 Entry/Exit Delay Module and make other connections as shown in Diagram C. See Installation Note 3.

Installation Notes:

1. FOR ACTUATION OF TELEPHONE DIALER OR DIGITAL COMMUNICATOR (when leased phone line to Modularm type remote system is not used) do not make connections to terminals A, B, C and D as shown in the diagrams. Instead, connections for actuating a dialer or digital communicator may be made by using: a) 6 V.DC OUTPUT from No. 1005's terminals 1 and 2 (Bell Test may have to be eliminated as described in Note 2 below) or b) DRY CLOSURE appearing across No. 1005's terminals B and C. If hold-up devices are to be installed, use dry closure only for dialer, etc. actuation.
2. BELL TEST MAY BE ELIMINATED, if desired, by cutting the white jumper wire on the rear of the wafer switch on the key lock. (Bell Test must be eliminated if a dialer or digital communicator is to be actuated from the bell terminals as described in Note 1a, ...unless a digital communicator with No. 658 Trigger Delay Adapter is used.)
3. IF ENTRY/EXIT TIME DELAY IS USED, the following information is applicable. See Diagram C.
 - a. A No. 497 (or No. 492) should be used as shown in Diagram C. (Do not use dry cells.)

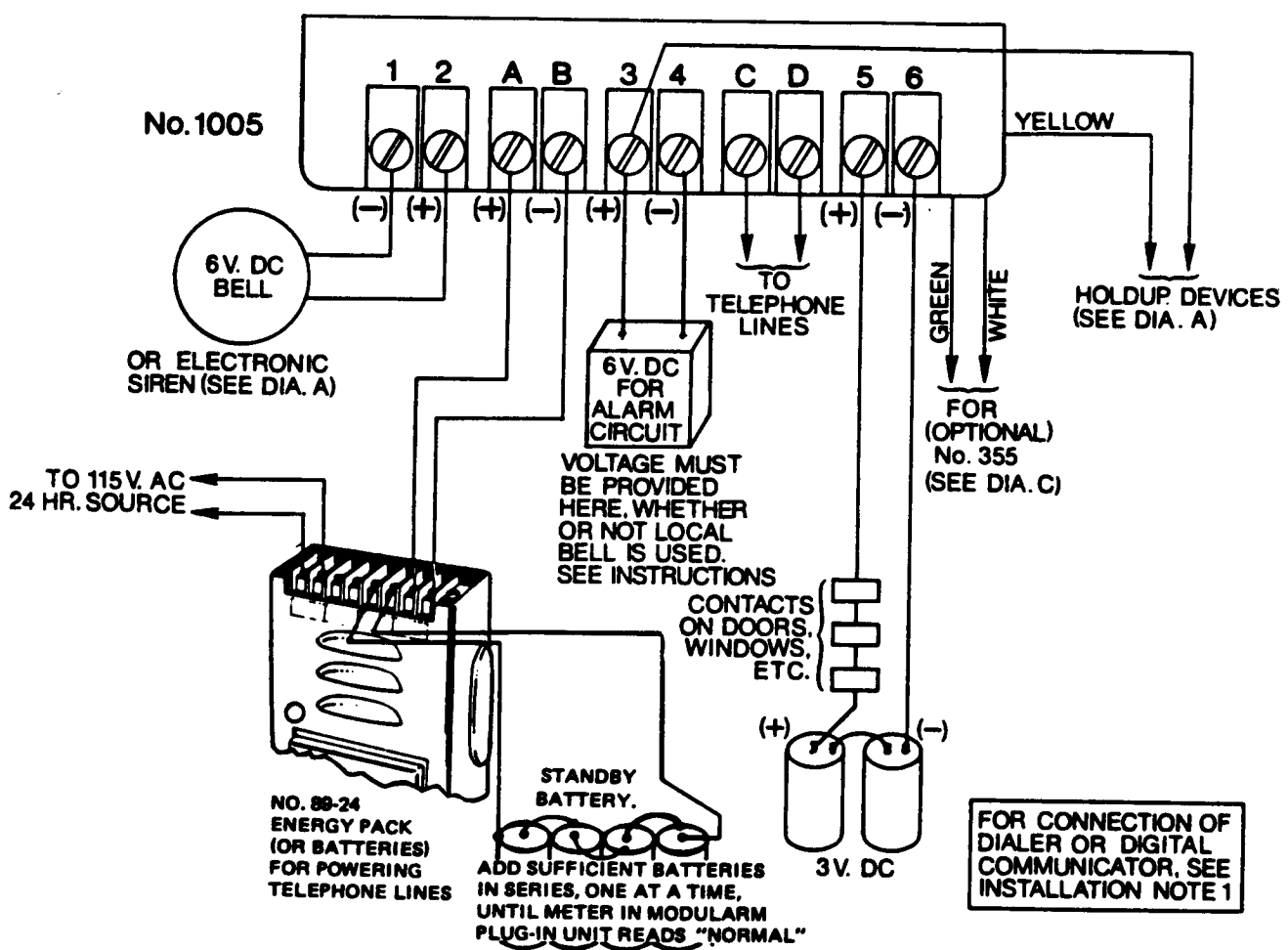


DIAGRAM B: Using No. 89-24 Energy Pack and Dry Cells

- b. In this application of the No. 355, the spring switch included with it is not used.
- c. "Delay" Circuit: Closed circuit contacts between terminals 1 and 4 of the No. 355 constitute a "Delay" Circuit. Usually only the exit and entry doors are connected into this circuit. Devices that might be actuated when the subscriber leaves or enters, such as ultrasonics, mats or photocells can also be wired into the "Delay" Circuit.
- d. "No-Delay" Circuit: The remaining contacts shown in Diagram C are not delayed and give the alarm signal immediately upon actuation.
- e. To set time delays, refer to the instructions included with the No. 355.

OPERATING INSTRUCTIONS, Without Entry/Exit Delay (Diagrams A and B)

When closing, make certain that all doors, windows and other protected points are closed, then turn keyswitch on control from OFF to BELL TEST.

BELL TEST: Bell should ring, unless Bell Test has been eliminated per Installation Note 2 above. Turn keyswitch to...

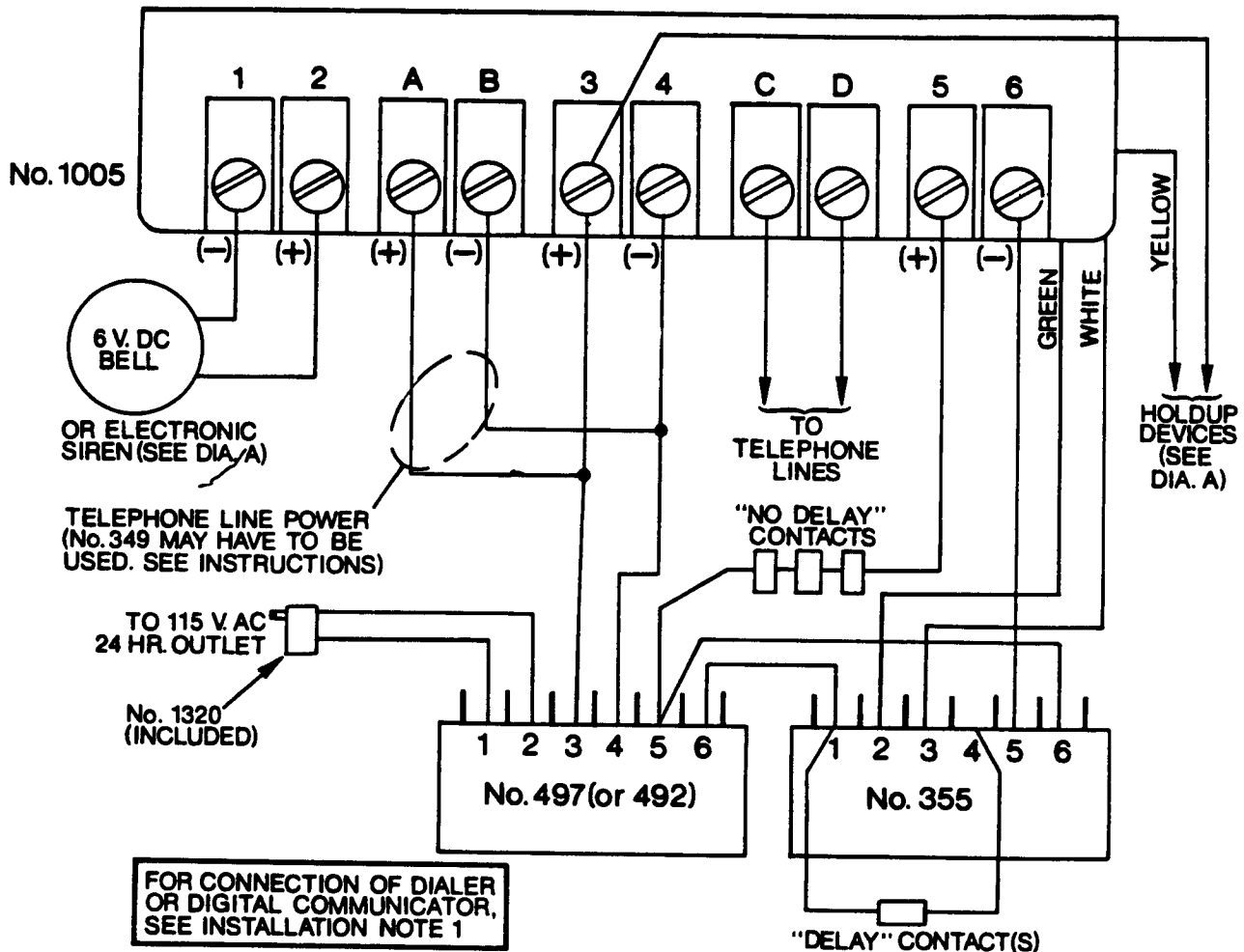


DIAGRAM C: Connection of (Optional) No. 355 Commercial Entry/Exit Delay Module

CIRCUIT TEST: The meter tests the operation of the battery and should read at least 3-4 ma if all protected doors, windows, etc. are closed. IF METER READS ZERO OR LESS THAN 2.5 ma, DO NOT TURN SYSTEM ON, AS A FALSE ALARM MAY BE SENT. The control may be left in the CIRCUIT TEST position while a check is made for a possible open door or window. If proper reading cannot be obtained, call alarm company for service.

With proper reading on meter, turn keyswitch to...

ON: Exit in normal manner. In the event of a break-in, bell will ring and alarm signal will be sent.

The panel meter reads zero during the ON period as it is not in circuit.

When opening, enter in normal manner and turn keyswitch to...

OFF: All doors, windows and other protected points may be operated without initiating alarm.

HOLD-UP DEVICES are in circuit 24 hours a day. A silent signal is sent over the telephone lines if a device is actuated during the day (control OFF). During the night (control ON) both bell and telephone signals are present. Devices must be the lock-in type and will require resetting after actuation

OPERATING INSTRUCTIONS. With Entry/Exit Delay (Diagram C):

Note: To prevent an alarm when opening, follow the entering procedure at the end of this section.

In the OFF position, the control's front panel meter reads zero. All devices wired into the "No-Delay" or "Delay" Circuits may be operated without danger of initiating an alarm. When closing, make certain all doors, windows and other protected points are closed, then turn keyswitch on control to BELL TEST.

BELL TEST: Bell should ring, unless Bell Test has been eliminated per installation Note 2 above. Turn keyswitch to ...

CIRCUIT TEST: When the key is turned to the CIRCUIT TEST position, no reading should be obtained initially on the control's meter.

After a few seconds the meter should read at least 3-4 ma.

If no reading appears after a few seconds, either the "No-Delay" Contacts Circuit or the "Delay" Contacts Circuit is open. The control may be left in the CIRCUIT TEST position while the appropriate part of the circuit is checked.

If a reading appears immediately when the control is turned to CIRCUIT TEST position, it is an indication that the exit delay time is not yet properly set. TURNING THE CONTROL TO ON TOO SOON AND OPENING THE DELAYED EXIT DOOR WILL CAUSE AN ALARM. Merely leave the control in the CIRCUIT TEST position for 5 seconds to set the exit delay time before proceeding.

When the proper (at least) 3-4 ma reading is obtained, turn the control to ON, ONLY WHEN READY TO LEAVE, because...

ON: Turning the key to the ON position begins the EXIT DELAY period (10 to 35 seconds, as pre-set). The subscriber must leave through any door in the "Delay" Circuit during this period to avoid triggering an alarm. The panel meter reads zero during the ON period as it is not in circuit. In the event of a break-in, the bell will ring and an alarm signal will be sent.

OFF: To prevent an alarm, the subscriber must enter through a "delayed" door when opening. This begins the Entry Delay Period (10 to 35 seconds as pre-set). To further prevent an alarm, the control must be turned to OFF before the end of the Entry Delay Period.

HOLD UP DEVICES are in circuit 24 hours a day. A silent signal is sent over the telephone lines if a device is actuated during the day (control OFF). During the night (control ON) both bell and telephone signals are present. Devices must be the lock-in type and will require resetting after actuation.

SPECIFICATIONS:

Physical:

Width: 12" (30.5 cm)
Height: 12" (30.5 cm)
Depth: 4" (10.2 cm)
*Weight: 8 lbs (3.6 Kg)

Electrical: Alarm Circuit:

6 V.DC
0 ma (normal)
700 ma (alarm, using
No. AD10 Bell or No.
700 Electronic Siren)

Protective Circuit:

3V. (dry cells) or 6V. (No. 497 or 492)
3-6 ma (normal)

*Less power source (not supplied)