

# INSTALLATION INSTRUCTIONS

**Nos. 800LR,  
801LR  
ASSIST ALERTS**

## INDEX:

<u>Subject</u>	<u>See Section(s)</u>
General Description.....	A
Preliminary (Location) Considerations.....	B
Telephone Company Requirements.....	B
Hard Wired Activating Devices (Optional).....	A, C6, D4
*Radio Signal Receiver and Transmitters (Optional).....	A, B2, C8, C9, D4, D5, E (See important note at end of D)
Removing Chassis from Cabinet.....	C1, C2
Wiring Connections.....	C
*Digital Communicator.....	A, C4, C5, D
*Direct Connect Cord (for telephone line).....	A, C4, C7, D3
Transformer and A.C. Outlet.....	A, B, C3, D1, E
Final Connections and Testing.....	D
Operation.....	See Unit's Nameplate (also A, D)
Emergency Standby Battery.....	A, E
General Specifications.....	E

\*Also see the individual instructions accompanying these items.

### A. GENERAL:

The No. 800LR and 801LR Assist Alerts permit a request for assistance to be initiated from various locations in the covered premises and automatically transmitted over the standard telephone line to a central monitoring station.

The Assist Alert's cabinet contains a digital communicator (No. 669 type in No. 800LR, No. 670 type in No. 801LR) and rechargeable standby battery with power supply and has provision for adding an optional radio signal receiver (such as the Ademco No. 1680, 1684 or 1690). A No. 1320 Transformer and No. 620 Direct Connect Cord accompany the unit.

The Assist Alert may be triggered by open circuit devices (such as the Nos. 269 and 270 Emergency Switches) hard wired to the unit, or by radio transmitters (such as the Nos. 1691 and 1692, which are for use with the No. 1690 Receiver) if a radio receiver is used.

The GREEN Indicator light on the front of the Assist Alert shows that AC is present and

that the unit is ready for use. The POWER ON-OFF switch is at the rear of the unit and is normally left ON. If turned OFF, or if AC is lost, the GREEN Indicator will go out. The RED LED and a buzzer (within the unit) will be on when the unit has been triggered and a call is in progress. A momentary contact CANCEL TRANSMISSION switch on the front of the unit can be pressed to abort a transmission once it has started.

Complete OPERATION instructions appear on the unit's nameplate.

## B. PRELIMINARY CONSIDERATIONS:

1. If a radio receiver is NOT to be used in the Assist Alert, the unit may be located anywhere in the premises that is convenient to a "24 Hr." AC outlet that is not switch controlled (live at all times). The telephone company should be requested to provide and install a telephone line jack (USOC No. RJ38X) near the selected location.
2. If a radio receiver is to be used, similar location conditions apply. In addition, the location selected should not have large metal objects such as refrigerators; plumbing pipes or wire lathed plaster walls between the unit and any important location in the premises from which a transmitter signal might be initiated. Such metal objects may completely or partially obstruct radio signals from reaching the receiver. For more information, refer to the instructions that accompany the radio equipment to be used. Proper receipt of signals by the receiver from transmitters activated in all parts of the premises should be ascertained before deciding on a final location.

## C. WIRING: See Diagram.

The Assist Alert is shipped with a digital communicator, standby battery, terminals, indicators and switches already installed and partially connected.

1. Remove the unit's rear panel, which is held in place by two screws.
2. Remove the chassis from the cabinet. It is held in place by four screws at the bottom of the cabinet.
3. Connect wiring for the No. 1320 Transformer (provided) to terminals 1 and 2 of the barrier strip, as shown in the diagram. Do not plug in the transformer until TESTING (described in the next section).
4. Program the digital communicator and connect the No. 620 Direct Connect Cord (provided) to it as described here and in the accompanying instructions for these items. If Channel A is to be used, connect it for NON-ABORT (YELLOW jumper on Post P1). If Channel B is to be used, connect it for NON-ABORT (BLUE jumper on Post P2) and NON-RESTORE (GREEN jumper on Post P3). Program the other channel (A or B) for "0" (zero) if not used for other purposes. In addition, cut the appropriate jumper to eliminate triggering delay from the channel used (GRAY for Channel A, WHITE for Channel B). Do not plug in the No. 620 Cord until TESTING (described in the next section).
5. Make sure the RED, BLACK and YELLOW leads for the communicator are connected as shown in the diagram, and that the communicator's VIOLET jumper is on its STORAGE POST.
6. If open circuit hard wired devices are to be used, connect them (in parallel) to terminal 3 of the barrier strip and to the communicator as shown in the diagram.
7. Route the transformer wiring, the wiring to activating devices (if used) and the No. 620 Cord out from the rear of the chassis via the cable clamp provided on the chassis.

8. If a radio signal receiver is to be used, install and connect it as indicated. The diagram shows a No. 1690 "DRF System" Receiver in use. Its bracket is mounted to the digital communicator cover via two screws. If another receiver is used, it may be secured (space permitting) with double sided tape.

Note: The No. 1690 Receiver contains dry contacts which transfer upon receipt of a signal from a radio transmitter. If a receiver is used, instead, which provides a positive (+) voltage output when triggered it may be connected directly to terminal 9 (CH. A) or 11 (CH. B) of the communicator. In either case no additional negative (-) connection is required as the receiver and communicator share the same power source.

9. Replace the chassis in the cabinet and replace the unit's rear panel. Replace the appropriate screws at the bottom and rear of the cabinet.

Note: If a receiver is used, its antenna wire should be routed as high as possible in the cabinet and out the rear.

#### D. FINAL CONNECTION AND TESTING:

It is advisable to notify the central monitoring station before testing the system in case unwanted digital communicator messages are accidentally sent in the course of testing.

Make sure that the switch at the rear of the unit is OFF and that all devices that will be used to trigger the communicator are in their "set" or "normal" position.

1. Plug the transformer into a 120V. AC, 60 Hz outlet that is live at all times.
2. Slide the switch at the rear of the unit ON. The GREEN LED on the front of the unit should light. The RED LED and buzzer (within the unit) should remain off.
3. Plug the No. 620 Direct Connect Cord into the jack provided by the telephone company.
4. Activate a contact or (if used) radio transmitter momentarily. The RED LED on the Assist Alert should light and the buzzer within the unit should sound, indicating that the digital communicator has triggered. If no telephone line transmission is desired at this time, depress the CANCEL TRANSMISSION switch on the unit IMMEDIATELY when the RED light and buzzer go on. Hold the switch down for at least two seconds.
5. If radio transmitters are being used, they should be activated from all parts of the premises to check reception by the receiver in the Assist Alert unit. Depress the CANCEL TRANSMISSION switch immediately after each activation. If the receiver fails to activate from any important location in the premises, the unit should be relocated.
6. As a final test, (make sure the central monitoring station has been notified) trigger the Assist Alert but DO NOT depress the CANCEL TRANSMISSION switch, thus permitting the digital communicator's message to be transmitted. The RED LED and buzzer will be on during transmission and will turn off automatically when transmission is completed. Check with the central monitoring station to determine whether they have received the message.

**SEE IMPORTANT NOTE  
ON NEXT PAGE**

**IMPORTANT!** Cautions and Notes for Optional Radio Signal System, if used.

It should be noted that radio signal systems are neither "failsafe" or "foolproof" and continual periodic testing by the user and service company is required to insure reliable performance.

Transmitters which require a dry battery for operation (as do the Nos. 1691 and 1692 Transmitters mentioned herein) must be tested by the user at least weekly from various locations in the premises and batteries should be changed at least every six (6) months (preferably scheduled and done by the service company).

For further information, refer to the instructions accompanying the particular radio signal system used.

## **E. GENERAL SPECIFICATIONS:**

Physical:           Width: 9 1/8" (23.2 cm)  
                          Height: 4 1/2" (11.4 cm)  
                          Depth: 9 1/4" (23.5 cm)

Electrical:   Voltage: 12V. AC (from No. 1320 Transformer)

Power Supply within Assist Alert provides 6V. DC for Digital Communicator and (if used) Radio Signal Receiver.

Digital Communicator Current Drain:

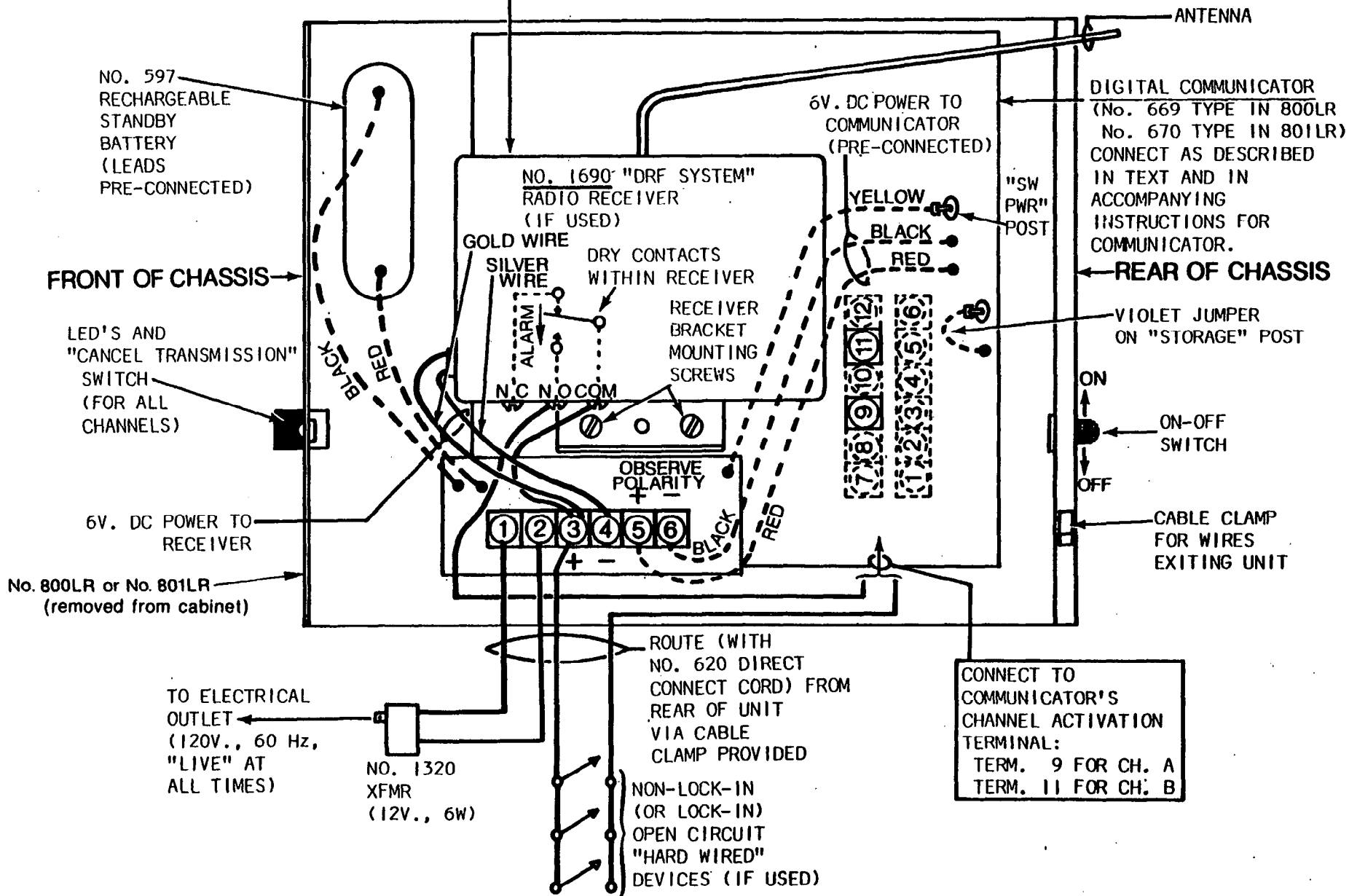
Standby: below 0.01 ma  
During Call: 0.25 amps

(Optional) Radio Signal Receiver Current Drain, if No. 1690 "DRF System" Receiver used:

Standby: 15 ma  
Operating: 120 ma

Standby Battery: No. 597, 6V., Rechargeable (Can power system including No. 1690 Receiver for up to 60 hours in event of AC power failure, depending on activation rate.)

NOTE: TO REMOVE RECEIVER FROM ITS BRACKET, SLIDE RECEIVER TOWARDS BRACKET AND LIFT.



370  
363

DIAGRAM: FIELD CONNECTIONS (SHOWN WITH OPTIONAL No. 1690 RADIO RECEIVER)