

No.674 SELECT-A-LINE

GENERAL INFORMATION:

The No. 674 Select-A-Line is designed to permit a digital communicator (such as the Nos. 669 or 670) to be connected to two telephone pairs, thus considerably increasing the communicator's chances of reaching the receiver in the event of telephone line trouble. Alternate attempts at calling are made over the two lines.

Line seizure is provided by the No. 674 as well as assurance that the audio from a No. 676 Listen-In Module (if used) will go out over the same line on which the digital communicator completes its call. No. 659 Line Fault Monitors may also be used to speed line selection when one line is inoperative.

The No. 674 is powered from the same 6 V. DC source that supplies the digital communicator (as well as the No. 659 Line Fault Monitors and No. 676 Listen-In Module when used).

NOTE: The No. 674 cannot be used with the Nos. 612 or 662 Dialers nor can it be used with the Nos. 679, 669 (A version) or 670 (A version). The new No. 674A will adapt to the No. 669A and 670A. The No. 674A will also be compatible with the screw-programmed Nos. 669 and 670 Digital Communicators. See page 180 for information on No. 674A.

OPERATION:

When the digital communicator is activated, its calling attempts will be made, via the No. 674, alternately over the two telephone lines. The first attempt will be made on line number one. If the communicator does not receive "handshake" or "kiss-off" from the receiver the second attempt will be made on line number two. If "handshake" or "kiss-off" is not received after the second attempt, the next attempt will be made on line one, etc.

Line seizure is provided for both telephone lines, and terminals are provided on the No. 674 for connecting local handsets as well as the phone lines.

If used with No. 659 Line Fault Monitors, the No. 674 automatically eliminates a line before dialing occurs, if it has been detected as out-of-service. Even if the digital communicator is forced to dial without dial tone, it will not attempt to dial on an out-of-service line.

When a No. 676 Listen-In Module is used with a digital communicator served by two telephone lines the No. 674 remembers on which line a call was completed by the communicator and sends the audio from the No. 676 out over that same (and not the alternate) line.

INSTALLATION:

For ease of installation the No. 674 Select-A-Line has a housing which permits it to be conveniently mounted in the digital communicator (or other) cabinet. The No. 674's upper edge is provided with a lip that can be slipped over the upper edge of the cabinet without interfering with the ability of the cabinet's cover to close and lock. See Diagram I.

WIRING:

See Diagram I.

Some leads of the No. 674 come already connected permanently to its circuit board. Other

leads, with "quick disconnect" terminals, are packaged with the No. 674 for attaching to connection posts on the unit in the field. Field wiring must be extended from these leads as indicated. Wire nuts, solderless crimp Wire Splices (Ademco No. 301) or solder and tape are recommended.

Barrier terminal strips are provided for the telephone line and local handset connections.

Proceed with wiring as follows:

1. Ground: Connect a "quick disconnect" lead (provided) to the post indicated on Diagram 1 and extend to a cold water pipe ground. This provides protection against externally induced transient voltages in the telephone lines.
2. Telephone Connections: Connect as indicated on the two barrier strips provided on the circuit board. No incoming telephone line or handset connections are made directly to the digital communicator.
3. No. 659 Line Fault Monitors (if used):
 - a. Connect quick disconnect leads to the two posts on the No. 674 as indicated on Diagram 1 and extend each to its respective Logic Level Signal Post on the No. 659 for the line indicated.
 - b. Connect from the No. 674's incoming telephone line terminals as shown on Dia. 1 to the YELLOW and GREEN leads of the No. 659 for the line indicated.
4. Digital Communicator:
 - a. GREEN and YELLOW (selected telephone line) leads: Connect to terminals 1 and 7 respectively in the digital communicator.
 - b. WHITE (line selection control) lead: Connect to the "PD" post located at the lower right corner of the digital communicator's circuit board.
 - c. BLACK (negative power) lead: Connect to the negative (-) post of the digital communicator's 6 V. DC power source.
 - d. GRAY (switched positive power) lead: Connect to the "Coupler Power" post located at the upper left corner of the digital communicator's circuit board.
5. No. 676 Listen-In Module (if used):

Connect a quick disconnect lead to the post indicated on Diagram 1 and extend to the No. 676 Listen-In Module (see installation instructions for the No. 676).
6. Negative (-) Power and Switched Positive (+) Power Posts: These posts are provided for convenience in making connections to other modules as needed.

SPECIFICATIONS:

Physical:

Width: 2 1/2" (6.4 cm)
Height: 6" (15.2 cm)
Depth: 1 1/2" (3.8 cm)
Weight: 8 oz. (227 grams)

Electrical:

Voltage: 6 V. DC (Switched power from
Digital Communicator or
No. 676 Listen-In Module)

Standby Current: 0
Operating Current: 110 ma.

MOUNTING LIP
(SEE DETAIL
AT RIGHT)

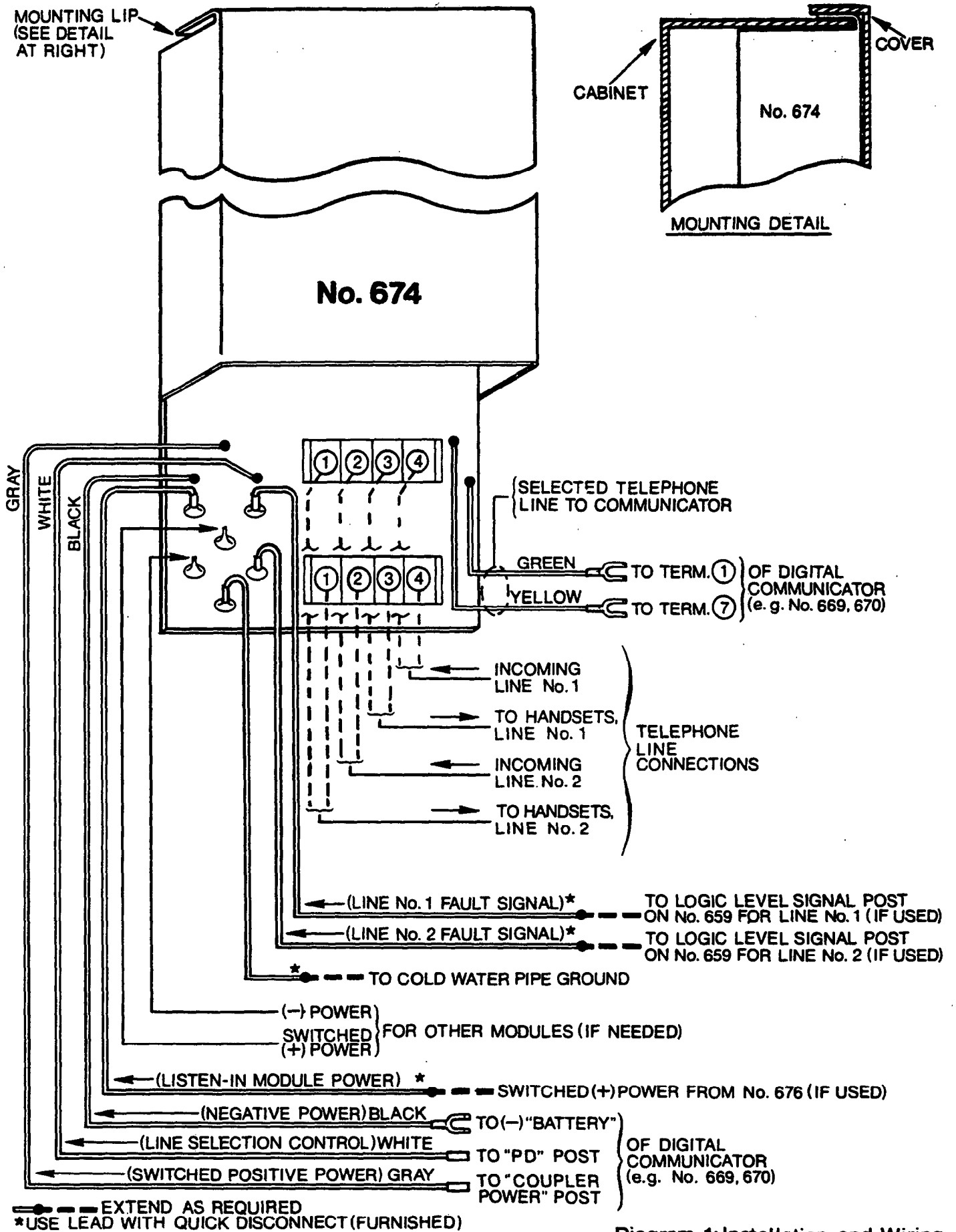
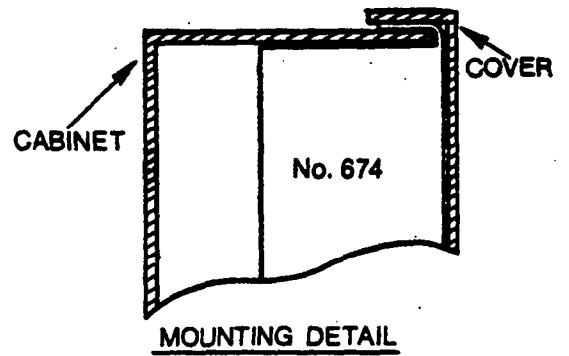


Diagram 1: Installation and Wiring