

## TELEPHONE SETS AND BASES (LESS HOUSINGS) AND APPARATUS UNITS IN CUSTOMER-OWNED ENCLOSURES IDENTIFICATION, INSTALLATION, SELECTION, CONNECTIONS, AND MAINTENANCE

### 1. GENERAL

**1.01** This section covers telephone apparatus which can be used in providing special installations in customer-owned enclosures, such as desks, cabinets, or furniture, where a custom built-in effect is desired.

**1.02** Units included in this section are complete telephone sets with the exception of the 11A apparatus unit (which has no ringer) and the AD1 telephone base (which has no handset, network, or dial mechanism).

**1.03** Dimensions are given for the units with the housings removed. Line switch actuator travel requirements are also included.



*The customer must provide mounting facilities, backboards, panels, and brackets. All cutouts and drilling to accept telephone apparatus must be done by the customer.*

### 2. IDENTIFICATION AND INSTALLATION

#### 11A APPARATUS UNIT

**2.01** The 11A apparatus unit (Fig. 1) consists of a G3AR handset, H4CJ handset cord, 4010B network, 8F dial, and a line switch mounted to a flat metal baseplate. The handset and handset cord are light gray (-61) color although handsets and cords of other colors are available. See section covering telephone apparatus color.

**2.02** The 11A apparatus unit is approximately 6 inches long, 2-13/16 inches wide, and 3 inches high.

**2.03** Four mounting holes are provided in the baseplate for securing the apparatus unit to the customer-owned enclosure. The unit may also be mounted using suitable clamps at the ends and sides.

**2.04** The customer-owned enclosure must allow a minimum 11/32-inch travel of the line switch actuator arms from the up (off-hook, line switch contacts closed) to the down (on-hook, line switch contacts open) position.

**2.05** The 11A apparatus unit can be used with 1A1 or 1A2 key telephone systems. An external ringer, such as the E1A ringer, must be provided if signaling is required.

#### 11C APPARATUS UNIT

**2.06** The 11C apparatus unit (Fig. 2) is the same as the 11A apparatus unit except that the metal baseplate is longer and an M1A ringer is included.

**2.07** The 11C apparatus unit is approximately 7-13/16 inches long, 2-3/4 inches wide, and 3 inches high.

**2.08** Five mounting holes are provided in the baseplate for mounting purposes. The unit may be secured using suitable clamps at each end and side.

**2.09** The ringer volume control mechanism protrudes through the baseplate. A stop screw is provided which must be removed to activate the ringer cut off feature. See section covering M-type ringers for further information on the ringer.

**2.10** The 11C apparatus unit can be used with 1A1 or 1A2 key telephone systems.

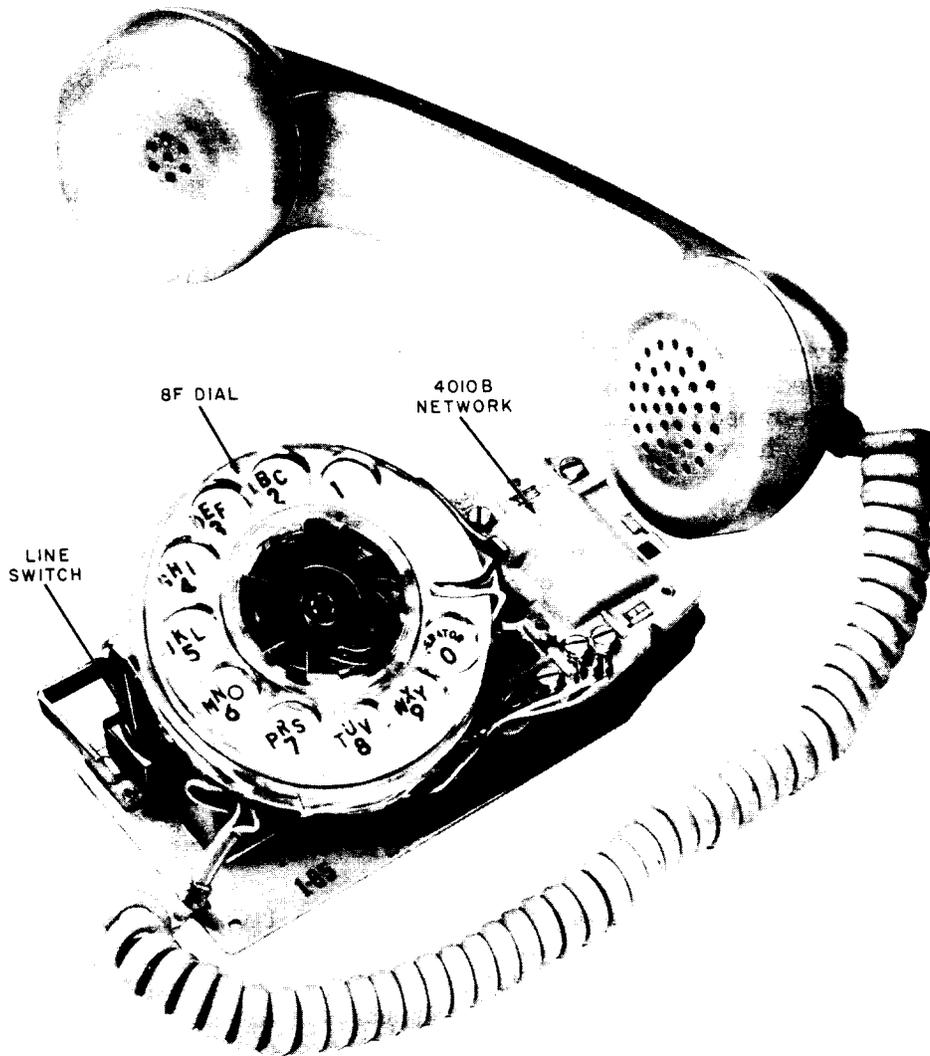


Fig. 1 — 11A Apparatus Unit

**AD1 TELEPHONE BASE**

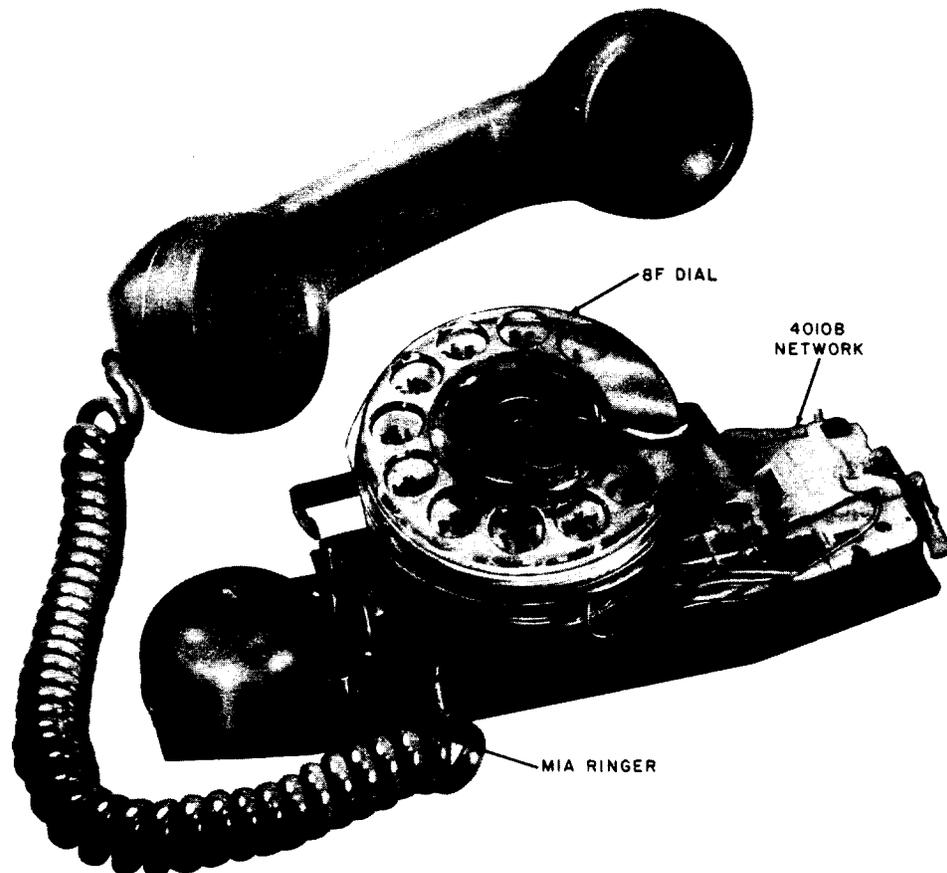
2.11 The AD1 telephone base (Fig. 3) consists of a line switch, P1A ringer, and terminal board mounted to a metal baseplate and enclosed in a plastic housing. Connectors are provided to accept plug-ended line cords and handset cords. The line cord is included.

2.12 The AD1 telephone base is not an operational telephone set since a network and dial are not provided. It is intended for use with a 220A hand telephone set which contains a dial and network.

2.13 The AD1 telephone base, without the housing, is approximately 7-5/16 inches long, 2-11/32 inches wide, and 1-11/16 inches high. The customer-owned enclosure must allow a minimum of 1/2-inch travel space for the line switch actuator from the up (off-hook, line switch contacts closed) to the down (on-hook, line switch contacts open) positions.

2.14 The ringer volume control mechanism protrudes from the underside of the baseplate.

2.15 No mounting holes are provided in the baseplate. The telephone base must be secured to the customer-owned enclosure by suitable clamping devices.



**Fig. 2 — 11C Apparatus Unit**

**2.16** The AD1 telephone base can be wired for use with 1A1 or 1A2 key telephone systems.

#### **500DR TELEPHONE SET**

**2.17** The 500DR telephone set (Fig. 4) consists of a line switch, C4A ringer, 425E network, 7- or 9-type dial, G3AR handset, and H4CJ handset cord mounted to a metal base and enclosed in a plastic housing. A four conductor mounting cord is also included.

**2.18** The 500DR telephone set is available in all standard colors. See section covering telephone apparatus color.

**2.19** The 500DR telephone set, without housing, is approximately 8-3/4 inches long, 5 inches wide, and 3-1/2 inches high. The customer-owned enclosure must allow 3/8-inch line

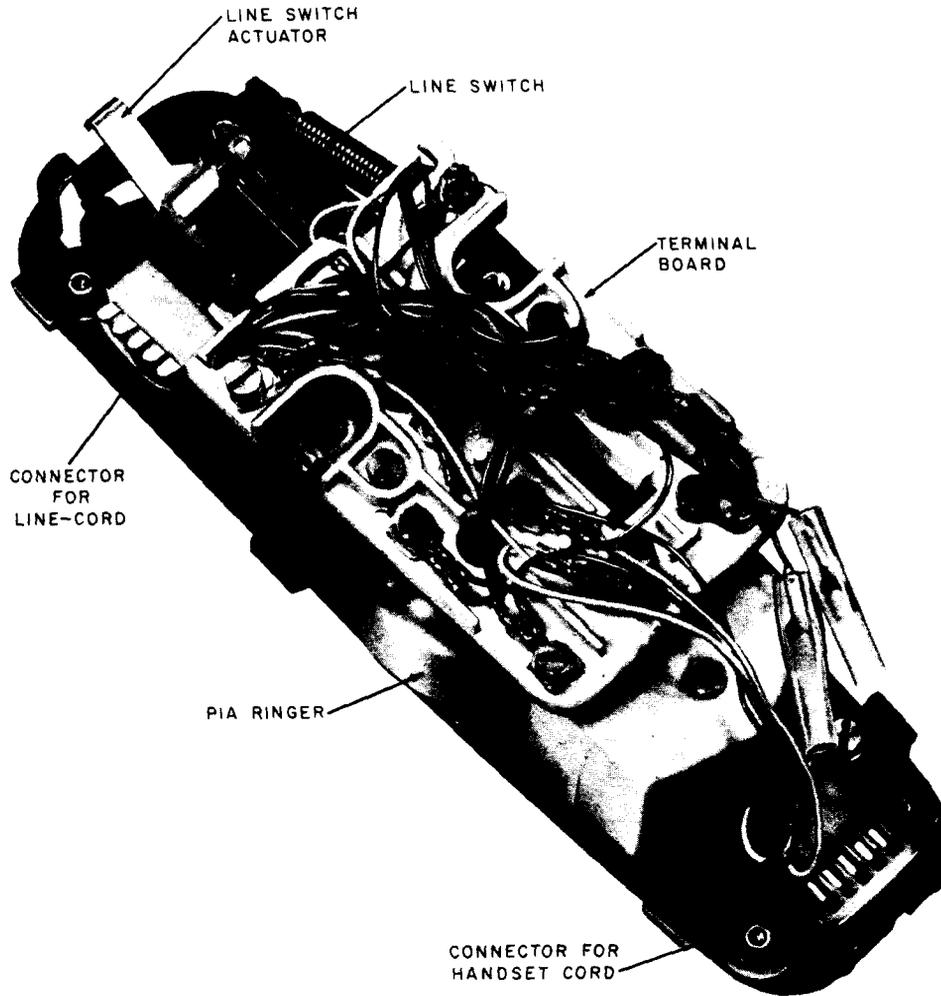
switch actuator travel from the up (off-hook, line switch contacts closed) to the down (on-hook, line switch contacts open) positions.

**2.20** No mounting holes are provided in the base, therefore, suitable clamps must be used to secure the telephone set to the customer-owned enclosure.

**2.21** Ringer volume is adjustable by a volume control wheel on the underside of the base.

#### **702B TELEPHONE SET**

**2.22** The 702B telephone set (Fig. 5) consists of an 8A dial, 4010B network, M1A ringer, G3AR handset, and a lamp for dial illumination mounted on a metal base and enclosed in a plastic housing. A five conductor mounting cord is also included.



**Fig. 3 — AD1 Telephone Base — Housing Removed**

**2.23** The dial lamp is lighted whenever the handset is removed or the night light switch on the rear of the base is operated. Power for the lamp is provided by a 2012A transformer, ordered separately.

**2.24** Ringer volume is adjustable by a volume control mechanism protruding through the underside of the base.

**2.25** The 702B telephone set, with housing removed, is approximately 8-5/32 inches long, 3-49/64 inches wide, and 3 inches high. The customer-owned enclosure must allow 11/32-inch travel space for the line switch actuator arms from the up (off-hook, line switch contacts closed) to the down (on-hook, line switch contacts open) positions.

**2.26** No mounting holes are provided in the telephone set base. Suitable clamping devices must be provided in the customer-owned enclosure to secure the 702B telephone set.

**2.27** The 702B telephone set can be used with 1A1 or 1A2 key telephone systems or the 3A speakerphone system. If used with 3A speakerphone a six-conductor mounting cord must be installed.

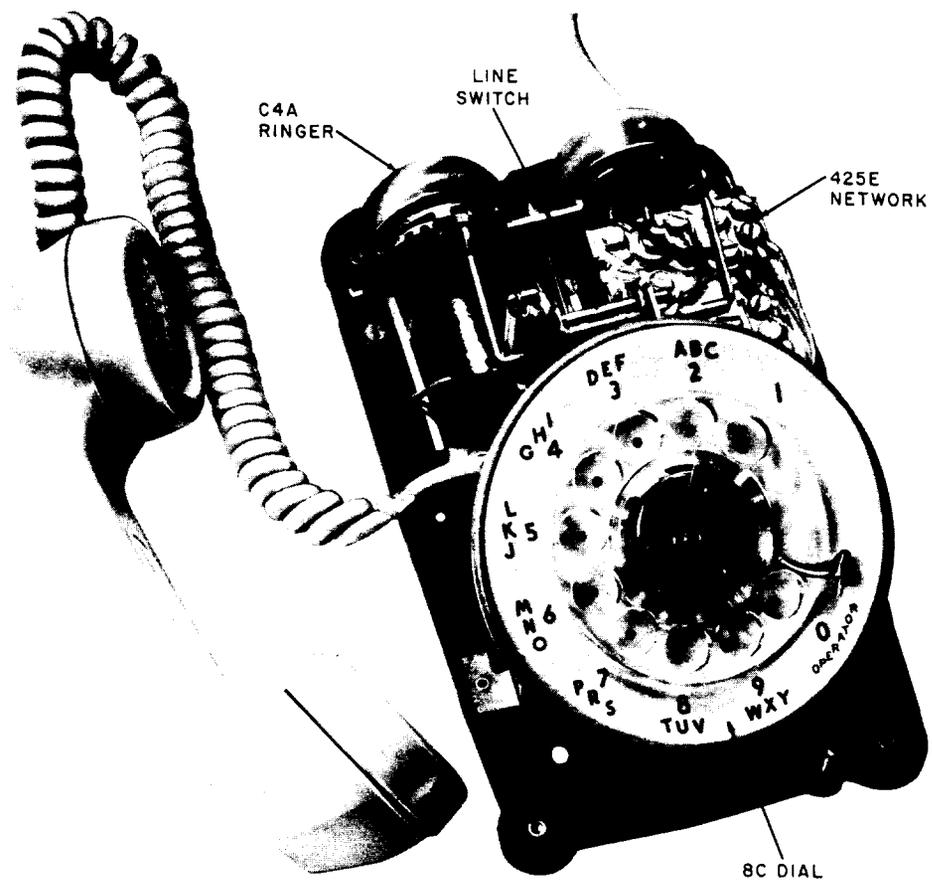


Fig. 4 — 500DR Telephone Set — Housing Removed

### 3. SELECTION

3.01 Table A lists the telephone sets and apparatus units that can be used in customer-owned enclosures and gives the approximate di-

mensions of each. Dimensions are given with housings removed for units normally enclosed in housings.

TABLE A  
TELEPHONE SETS, BASES, AND APPARATUS UNITS FOR CUSTOMER-OWNED ENCLOSURES

ITEM	LENGTH	WIDTH	HEIGHT	FEATURES
11A Apparatus Unit	6	2-13/16	3	Ringer not included.
11C Apparatus Unit	7-13/16	2-3/4	3	Equipped with ringer.
AD1 Telephone Base	7-5/16	2-11/32	1-11/16	Does not contain network, dial or handset.
500DR Telephone Set	8-3/4	5	3-1/2	Complete telephone set.
702B Telephone Set	8-5/32	3-49/64	3	Complete PRINCESS® type set equipped with dial light.

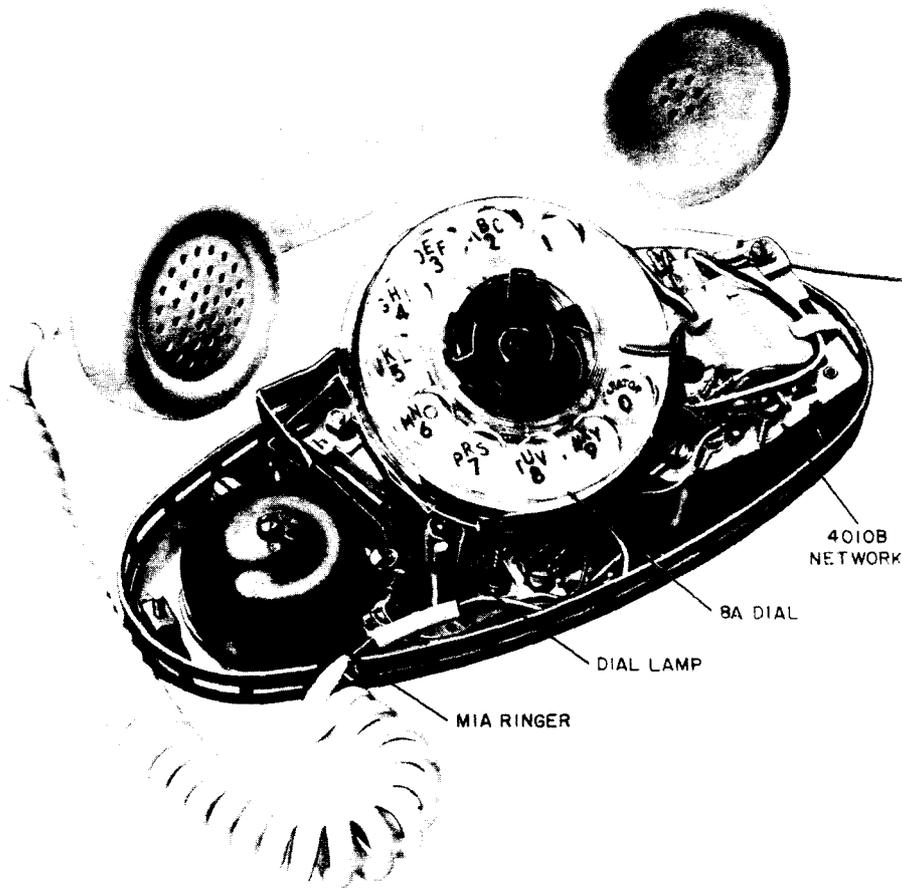


Fig. 5 — 702B Telephone Set — Housing Removed

**4. CONNECTIONS**

**4.01** For connection diagrams of the AD1 telephone base, 500DR telephone set, and 702B telephone set, refer to Sections 502-320-400, 502-510-401, and 502-710-403, respectively.

**4.02** Fig. 6 and 7 show connections for the 11A and 11C apparatus units, respectively.

**5. MAINTENANCE**

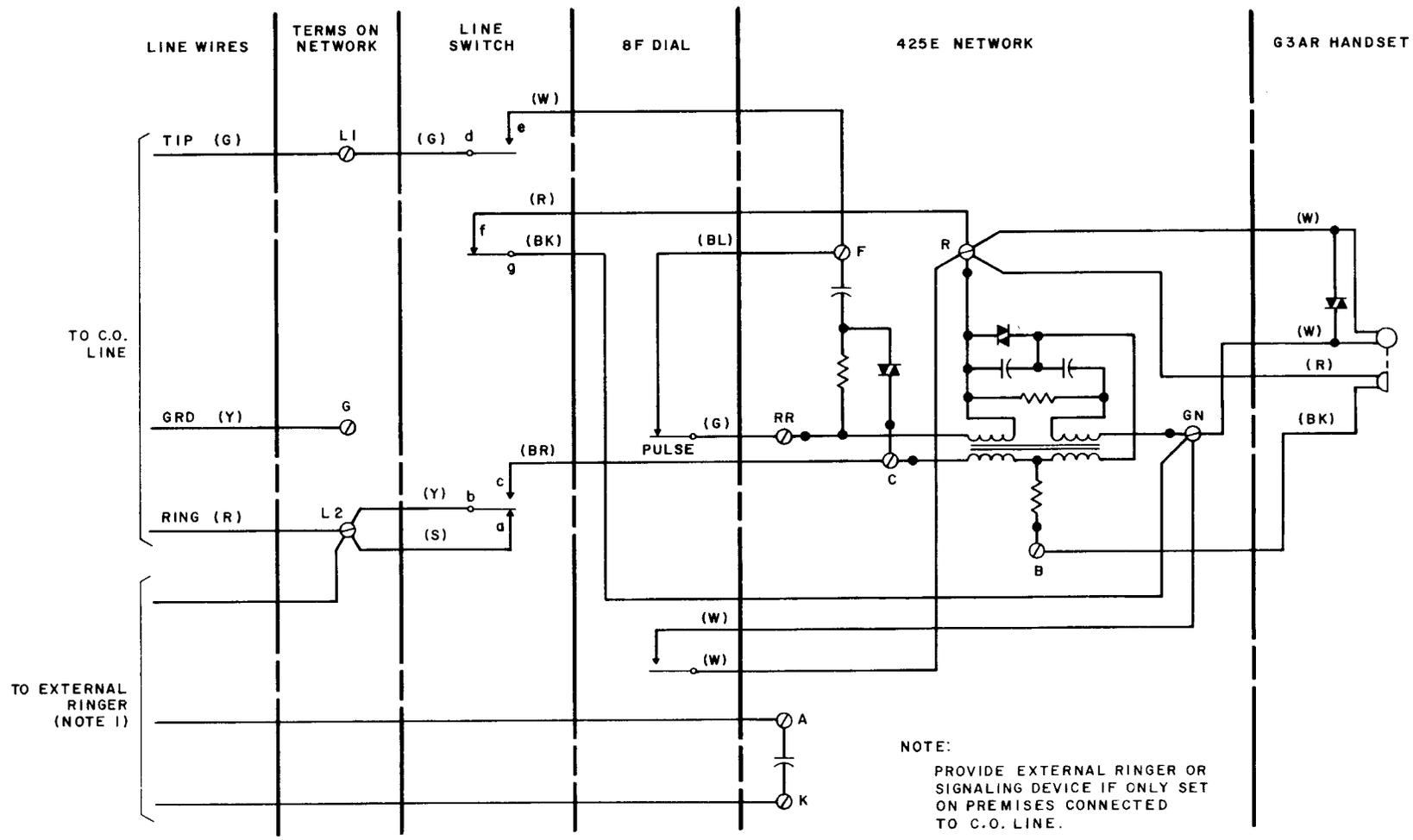


*Maintenance of telephone sets, bases, or apparatus units installed in customer-owned enclosures is limited to Bell System components only. No maintenance of the customer-owned enclosure or components is authorized.*

**5.01** Maintenance procedures for the AD1 telephone base, 500DR telephone set, and 702B telephone set are found in Sections 502-321-100, 502-510-300, and 502-710-300, respectively.

**5.02** Maintenance of 11A and 11C apparatus is similar to that of the 702B telephone set and Section 502-710-300 should be referenced for maintenance purposes.

**5.03** For maintenance of dials, ringers, and handsets reference the sections covering the individual component.



NOTE:  
 PROVIDE EXTERNAL RINGER OR  
 SIGNALING DEVICE IF ONLY SET  
 ON PREMISES CONNECTED  
 TO C.O. LINE.

Fig. 6— 11A Apparatus Unit, Wiring Diagram

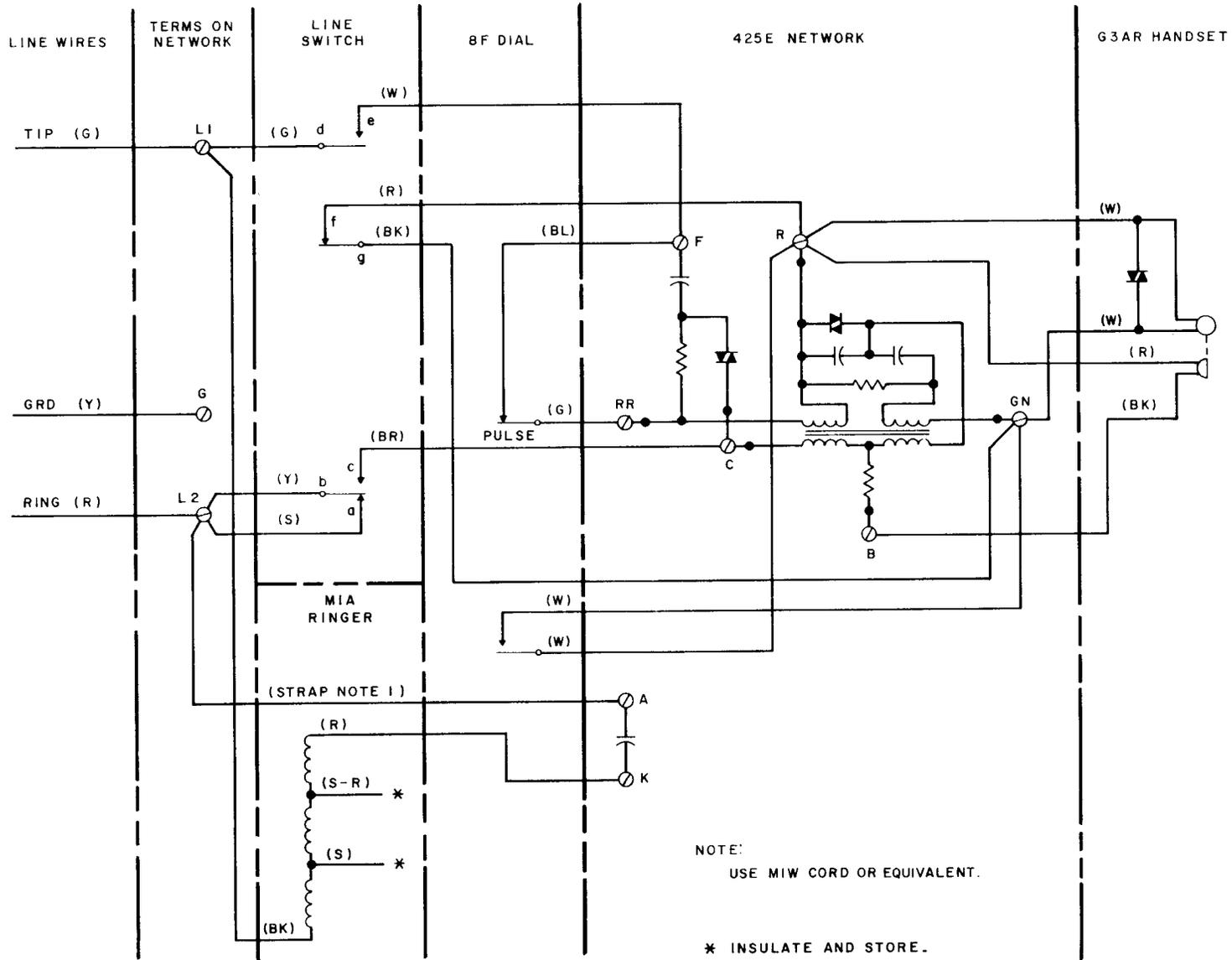


Fig. 7 — 11C Apparatus Unit, Wiring Diagram