

100-TYPE NIU (NETWORK INTERFACE UNIT) DESCRIPTION AND INSTALLATION

	CONTENTS	PAGE
1.	GENERAL	1
2.	DESCRIPTION	1
3.	INSTALLATION	3

1. GENERAL

1.01 This practice provides information on the description and installation of the 100-type NIU (Network Interface Unit).

1.02 When this practice is reissued, the reasons for reissue will be listed in this paragraph.

1.03 The 100-type NIU provides the following features:

- Equipped with or provisions for mounting a station protector
- Provisions for terminating aerial or buried service wire
- Provisions for terminating subscriber wiring
- Equipped with an RJ11X network interface for subscriber access to customer premise wiring
- Provisions for remote testing circuitry.

The NIU provides an enclosed, secure, environmental-resistant housing for the above features.

2. DESCRIPTION

2.01 The 100-type NIUs (Fig. 1) consist of a housing with a hinged cover, a modular plug and jack, binding posts for termination of subscriber wiring, and grommets for entry of drop wire or service wire and subscriber wiring. The NIUs are available with optional features by code as indicated in Table A.

2.02 The housing and cover are made of flame-retardant plastic. The hinged cover is equipped with a captive fastener having a screwdriver slot which permits the NIU to be secured while providing customer access to the modular plug.

2.03 A removable cover inside the NIU housing provides access to the network side of the box. The cover has a recessed locking nut assembly to safeguard against subscriber entry.

2.04 The 100-type NIU when equipped with a **123E2A protector** (Table A) provides station protection for one pair of wires. See Practice 462-005-100 for detailed information on the 123E2A protector.

2.05 The **3A termination** provides a half-ringer equivalent for loop testing and the **6A termination** provides the means, when testing the loop, to locate the trouble between the central office and the NIU or between the NIU and the customer equipment. Faults which may be sectionalized with the 6A termination include tip-to-ring or conductor-to-ground resistive faults, shorts, and opens.

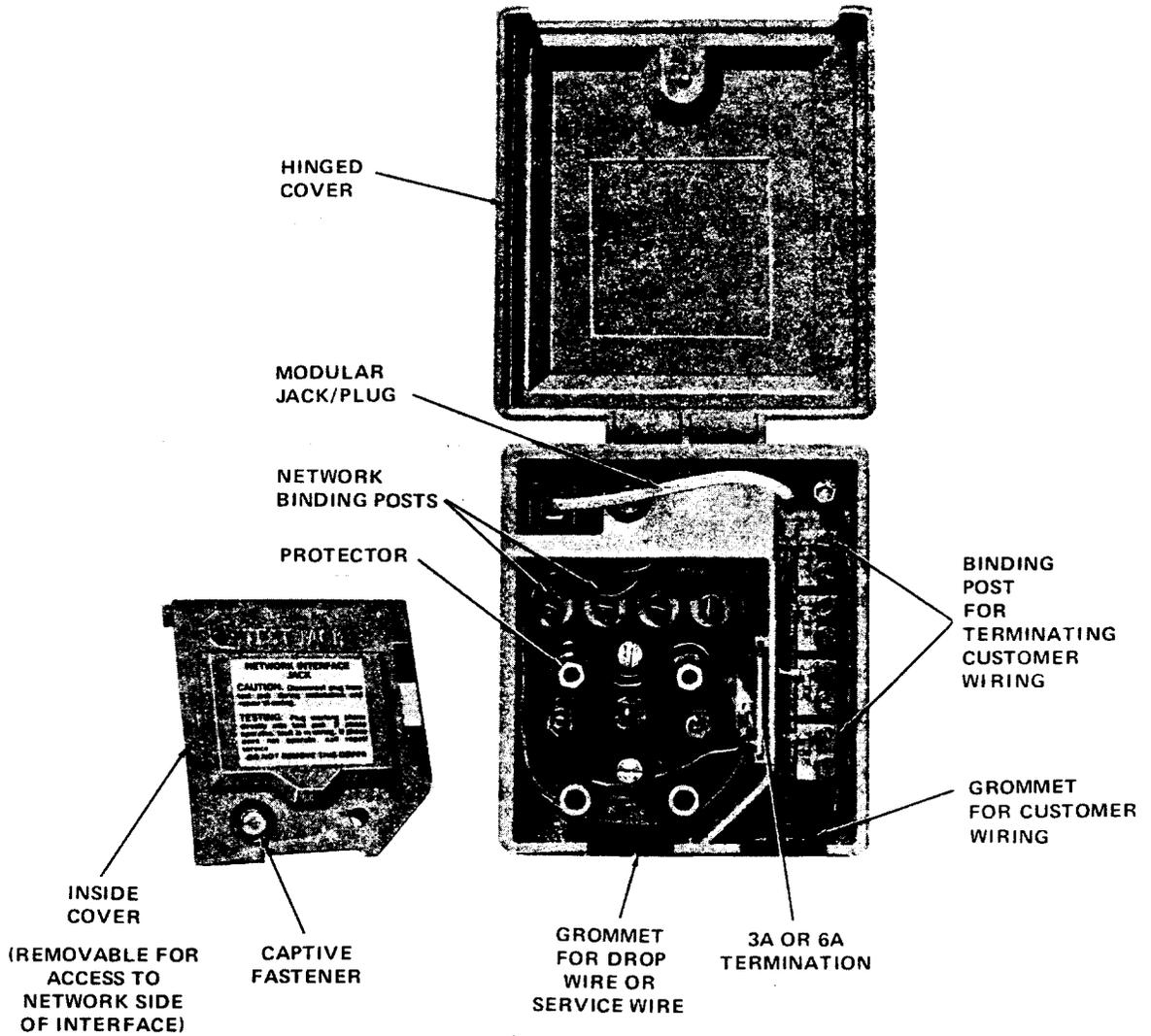


Fig. 1— 100-Type Network Interface Unit

TABLE A 100-TYPE NIU (NETWORK INTERFACE UNITS)					
100-TYPE NIU CODE	EQUIPPED WITH				DIAGRAM (FIG.)
	NETWORK INTERFACE BOX	123E2A PROTECTOR	3A TERMINATION (RINGER EQUIVALENT)	WIRING 6A TERMINATION (REMOTE TESTING)	
100A1E1-1	X	X			3
100B1-1*	X		X		4
100B1E1-1	X	X	X		5
100C1-1*	X			X	6
100C1E1-1	X	X		X	7

*A protector is not furnished with the NIU and must be provided locally.

3. INSTALLATION

3.01 The 100-type NIU is designed for inside or outside mounting on a wall or pedestal. Mount the 100-type NIU as illustrated in Fig. 2.

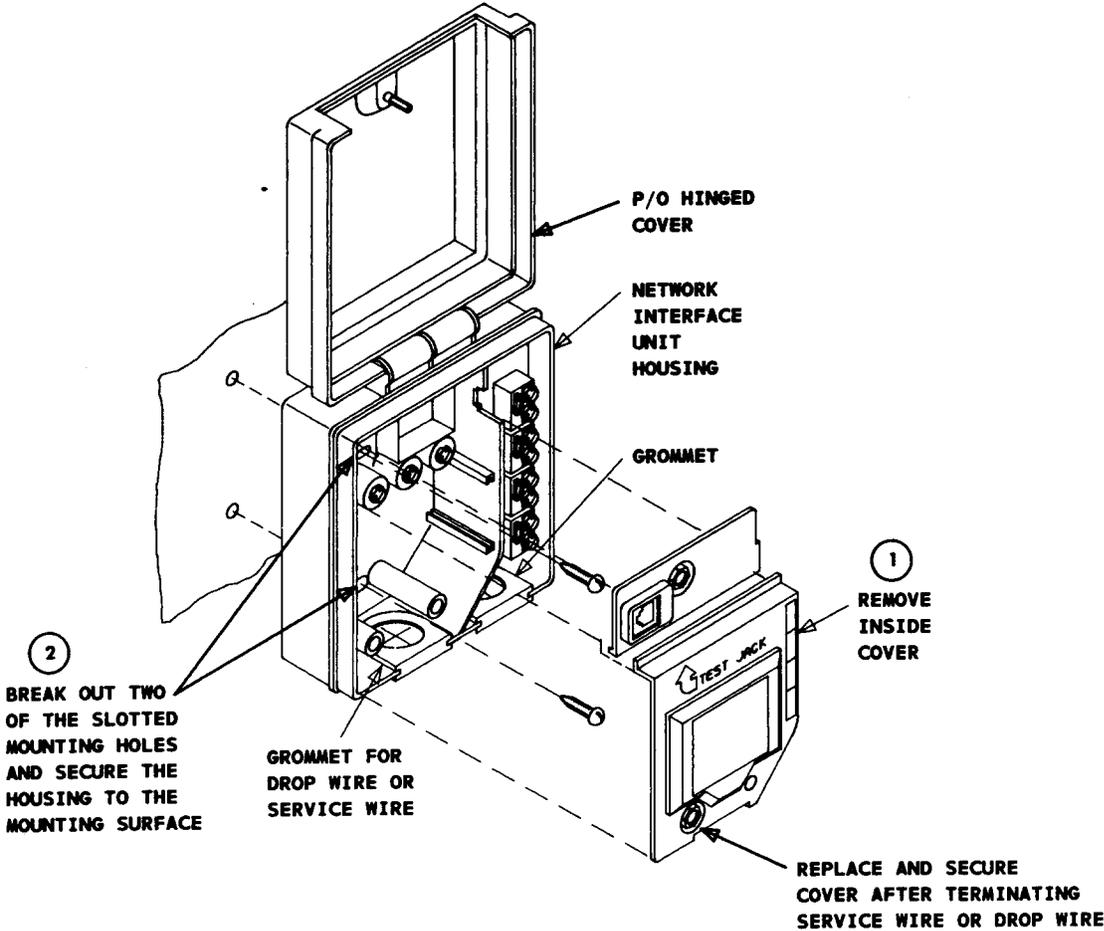


Fig. 2—Mounting 100-Type NIU

3.02 To wire the 100-type NIUs, disconnect the modular plug from the test jack and terminate the conductors as illustrated in Fig. 3 through 7 for the appropriate NIU.

3.03 After the wiring is completed, verify proper operation of the NIU in accordance with local procedures. Reconnect the modular plug at test jack and close the cover. The cover should be secured with the captive fastener.

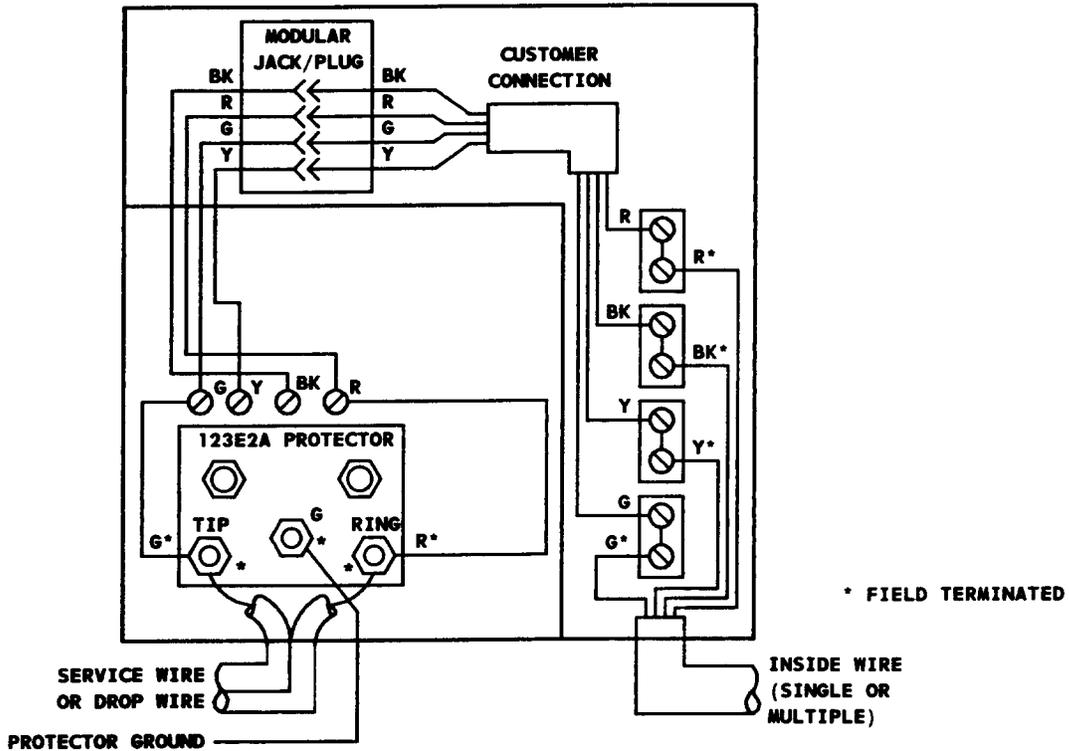


Fig. 3—100A1E-1 NIU—Wiring Diagram

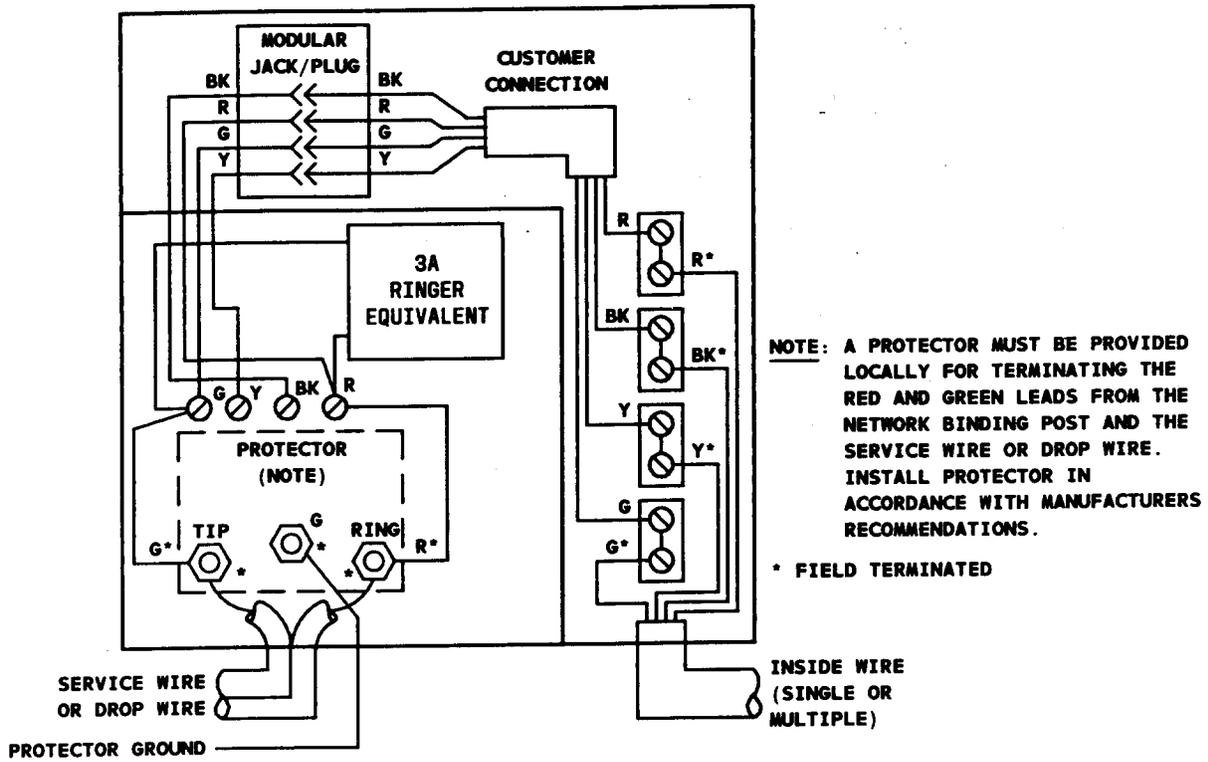


Fig. 4—100B1-1 NIU—Wiring Diagram

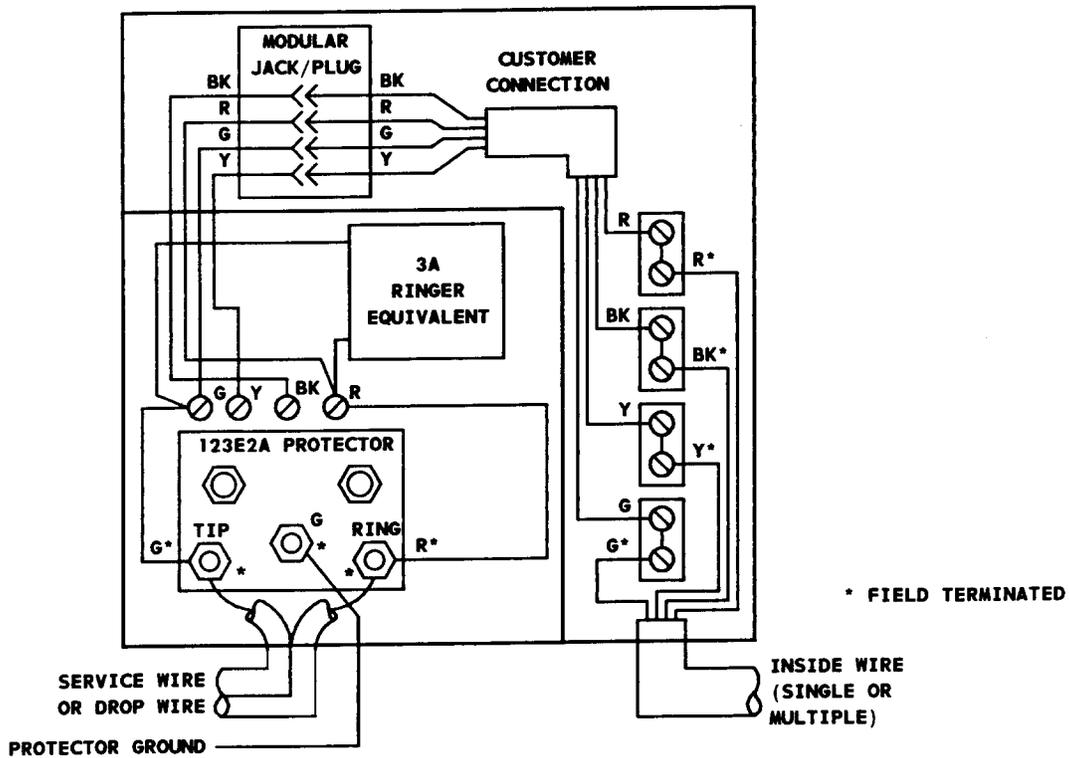


Fig. 5—100B1E1-1 NIU—Wiring Diagram

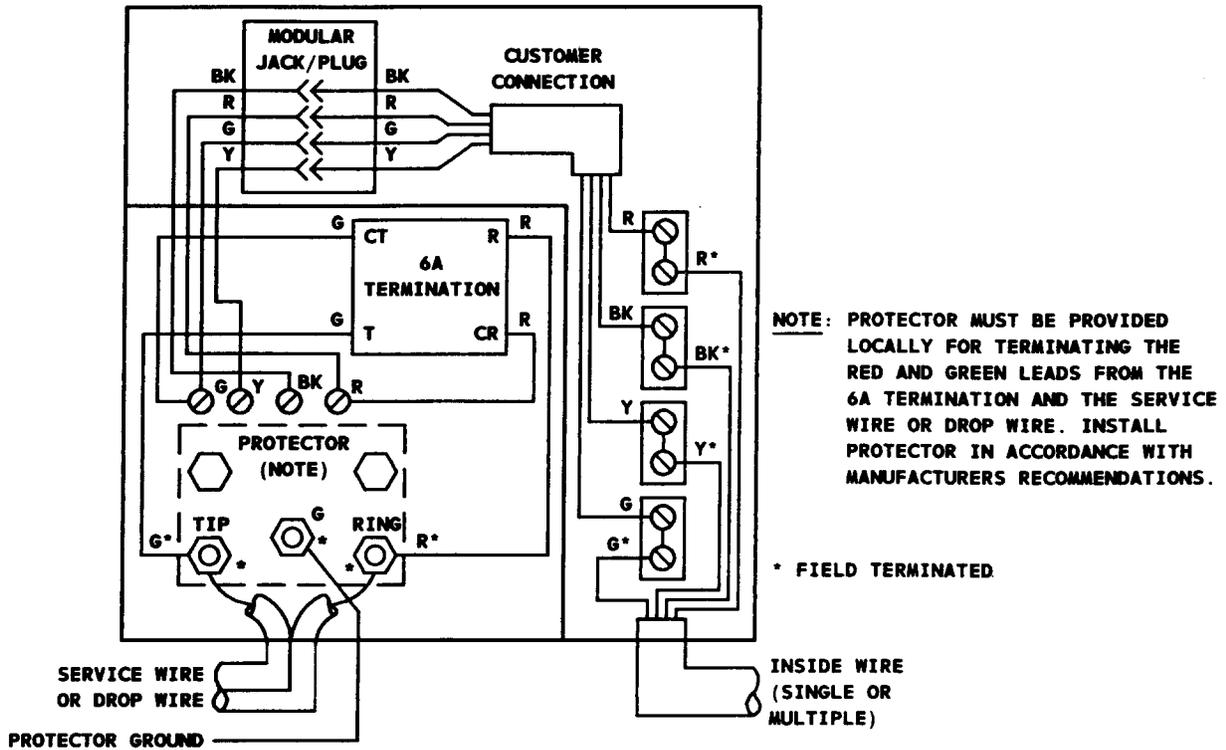


Fig. 6—100C1-1 NIU—Wiring Diagram

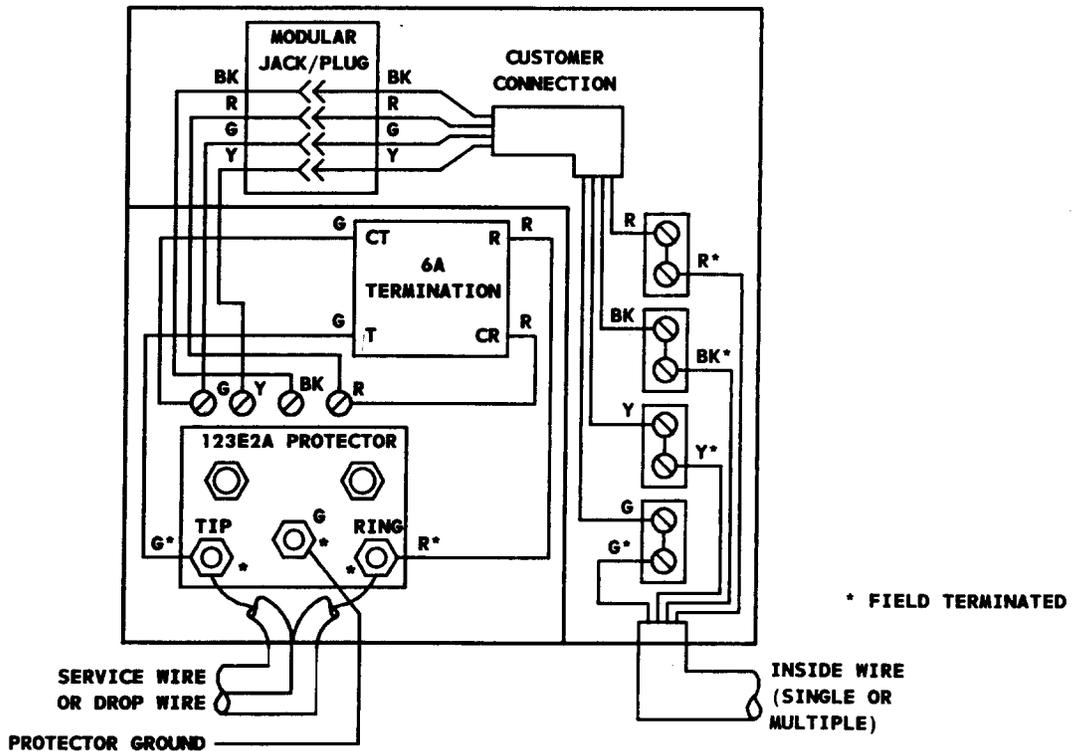


Fig. 7—100C1E1-1 NIU—Wiring Diagram