

500A ADAPTER

IDENTIFICATION, INSTALLATION, OPERATION, AND MAINTENANCE

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1. GENERAL

1.01 This section contains information on the 500A Adapter which is an optional adjunct to all DIMENSION® AIS*/System 85 voice terminals, ex-

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cept the 7101A. The adapter provides the interface for connecting a head telephone set to the associated voice terminal.

1.02 Whenever this section is reissued, the reason(s) for reissue will be given in this paragraph.

2. DESCRIPTION

2.01 The 500A adapter (Fig. 1) is a self contained unit consisting of an upper housing, a lower housing, a pair of head telephone set jacks, a 4-wire modular cord jack, and a special 8-wire modular cord jack. The special 8-wire modular cord jack accepts the D8AC-87 double-keyed cord. The 4-wire modular jack accepts a standard 4-conductor modular mounting cord. The pair of head telephone set jacks accept the double phone plug connector of Western Electric (WE) 60-type, KS-20778, or KS-22729 headsets. The adapter measures 3-7/8 inches by 3-3/4 inches by 1-7/8 inches in size and is housed in silver painted plastic.

2.02 Two pushbutton switches, one marked ON/QUIET and the other marked OFF, and a light emitting diode (LED) are located on top of the adapter. The ON/QUIET button is used to turn the adapter on, and to disable (QUIET) transmission from the microphone of the head telephone set for privacy when desired during a call. Depressing the OFF button turns the adapter off. The LED is green and is lighted when the adapter is on. Dialing is accomplished through the associated voice terminal in the usual manner. The handset is deactivated during headset operation, and can only be reactivated by turning the adapter off.

2.03 The 500A adapter requires no routine maintenance because no user serviceable items are included in the unit.

NOTICE

Not for use or disclosure outside the Bell System except under written agreement

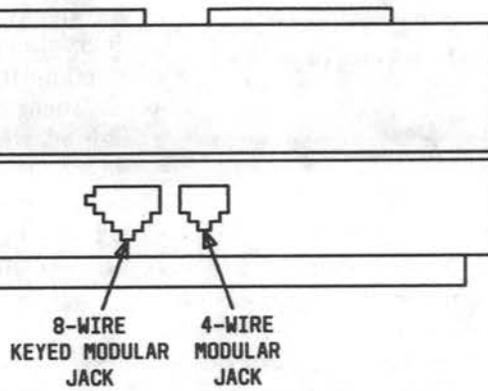
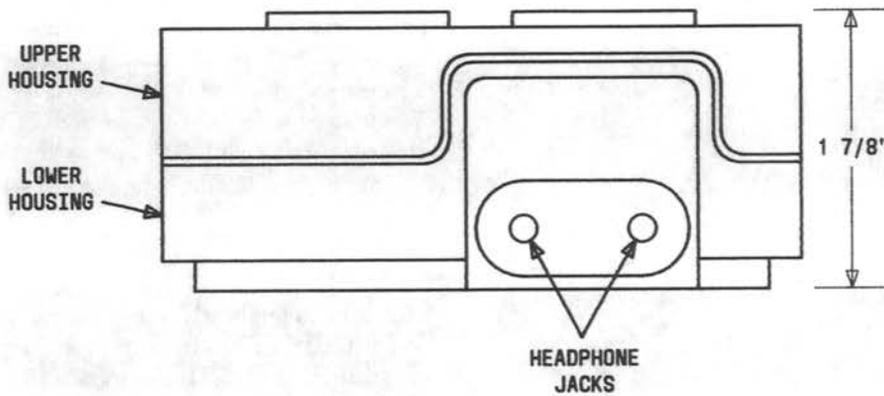
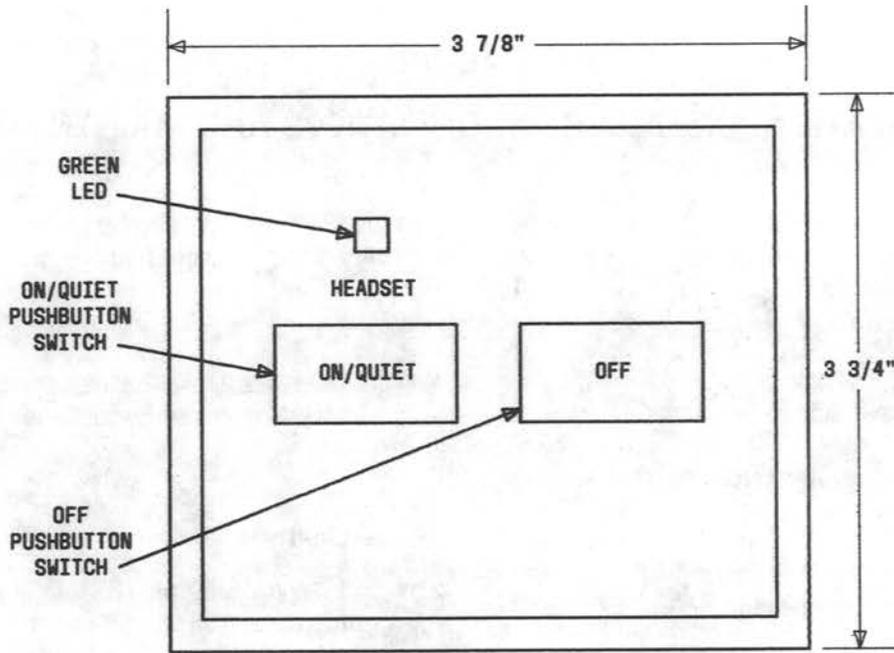


Fig. 1—500A Adapter

3. ORDERING GUIDE

3.01 The 500A adapter which is furnished with an 18-inch D8AC-87 cord, is a modular adjunct and may be ordered as follows:

Module: Adapter, 500A

Options: Cord, D8AC-87, 4 feet
Cord, D8AC-87, 14 feet

3.02 The power arrangement may be ordered as follows:

Unit, Power, 329A

Transformer, 2012D-50

Adapter, 248B-50

Cord, D6AP-87 (7 feet, 14 feet, or 25 feet)

Adapter, 400B

Note: Either the 2012D transformer equipped with a 248B adapter or the 329A power unit can be used to power the 500A adapter. Use the 2012D transformer equipped with a 248B adapter unless 7403D or 7405D voice terminals require the 329A power unit for powering other adjuncts, or if distance limitations for use of the 2012D transformer in remote power arrangement is exceeded.

4. POWER CONNECTION ARRANGEMENTS

A. General

4.01 The 500A adapter can be powered on low-voltage ac supplied from a 2012D transformer equipped with a 248B adapter or on 48 VDC from a 329A power unit. Use of the 2012D transformer is more economical and should be utilized whenever possible. The 329A must be used when power is required to power 7403D and 7405D voice terminal adjuncts.

4.02 The 500A adapter connects to one of the following DIMENSION AIS/System 85 voice terminals: 7103A, 7203H, 7205H, 7403D, or 7405D. The 500A adapter is not compatible and cannot be used with the 7101A voice terminal.

Note: The 7103A voice terminal is furnished with a D4BU-29 cord. This D4BU-29 cord must be replaced with a D8W-87 cord to permit connection to the 500A adapter.

B. Local Power Arrangement

4.03 The local power connection arrangement (Fig. 2) consists of a 2012D transformer with a 248B adapter or 329A power unit (see paragraph 4.01), D6AP-87 cord, 400B adapter, D8W-87 cord, voice terminal, D8AC-87 cord, and a 500A adapter.

4.04 The D6AP-87 cord is used to connect the 2012D transformer or 329A power unit to the 400B adapter. The D8W-87 cord is used to connect the 400B adapter to the LINE jack of the voice terminal. The 18-inch D8AC-87 cord is used to connect the 500A adapter to the jack labeled OTHER on the bottom of the voice terminal. A D4-type modular cord can be used to remote the headset connection to an external headset jack located in the knee well of the desk; it is intended that this arrangement, when provided, be locally engineered and assembled.

4.05 To connect the equipment for a local power arrangement, proceed as follows:

1. When the 2012D transformer is used, connect the 248B adapter to the 2012D transformer.
2. Plug the 2012D transformer or 329A power unit into the ac outlet.
3. Plug the 400B adapter into the telephone wall jack.
4. Using the D6AP-87 cord, connect the 400B adapter to the 2012D transformer or 329A power unit.
5. Using the D8W-87 cord, connect the 400B adapter to the jack labeled LINE on the back of the voice terminal.
6. Using the 18-inch D8AC-87 cord, connect the 500A adapter to the jack labeled OTHER on the back of the voice terminal.

C. Remote Power Arrangement - Hardwired Connection of the 2012D Transformer

Note: Hardwired remote connection of the 500A adapter power is permitted only for the

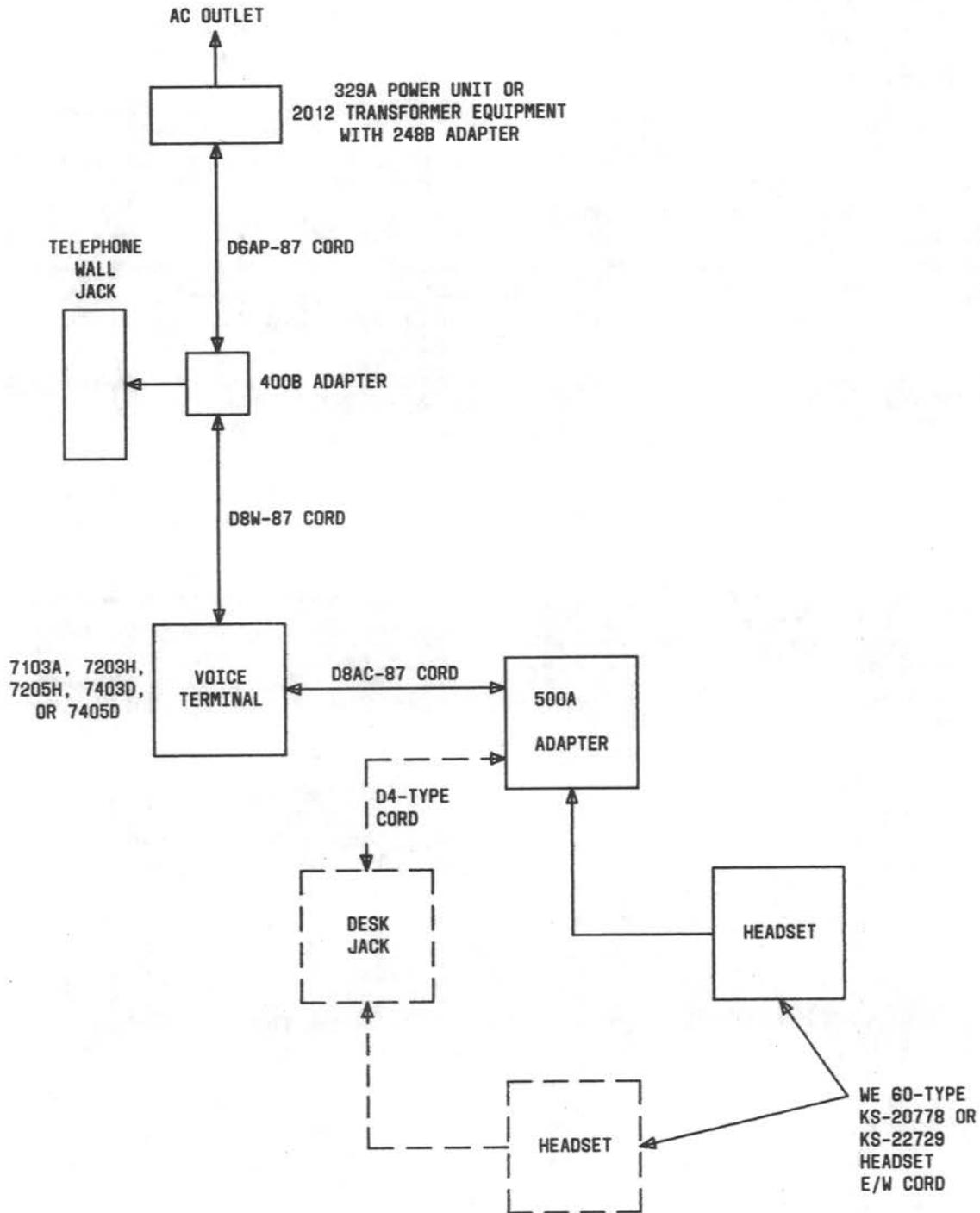


Fig. 2—Local Power Arrangement for a Voice Terminal, Headset, and Desk Jack

customers who have elected not to perform their own moves or rearrangements. Do not install hardwired remote connection without proper authorization.

4.06 The power connection arrangement (Fig. 3) to remote power the 500A adapter with a voice terminal consists of a 2012D transformer, 4-pair D-station wire, station connection block, D8W-87 cord, voice terminal, D8AC-87 cord, and a 500A adapter.

4.07 One-pair jumper wire is used to connect the 2012D transformer to a terminal block in the satellite closet and then the fourth pair of the 4-pair D-station wire connects to the terminal block and terminates at the modular 8-pin wall jack in the area where the 500A adapter is to be used. The D8W-87 cord connects the voice terminal LINE jack to the wall jack. The 18-inch D8AC-87 cord is used to connect the 500A adapter to the connection labeled OTHER on the back of the voice terminal. A D4-type modular cord can be used to remote the headset connection to an external headset jack located in the knee well of the desk.

4.08 To connect the equipment for a remote power hardwired arrangement, proceed as follows:

Note: The 2012D transformer may not be used in remote power arrangements if the conductor loop resistance of this connection exceeds 10 ohms. For 24-gauge wire, the maximum distance is 200 feet.

1. Connect the 2012D transformer to the terminal block, using a one-pair jumper wire.
2. Plug the 2012D transformer into the ac outlet.
3. Using the fourth pair (brown-brown/white) of the D-station wire, connect the telephone modular 8-pin wall jack to the terminal block in the satellite closet.
4. Using the D8W-87 cord, connect the jack labeled LINE on the back of the voice terminal to the telephone modular 8-pin wall jack.
5. Using the 18-inch D8AC-87 cord, connect the 500A adapter to the jack labeled OTHER on the bottom of the voice terminal.

5. OPERATION

A. Originate Call

5.01 A call may be originated from a voice terminal with an associated 500A adapter in either the handset or headset mode of operation. To originate a call in the headset mode, momentarily depress the ON/QUIET button and the green LED will light. When dial tone is received, the number is dialed from the voice terminal in the usual manner.

B. Transfer Call

5.02 When the 500A adapter is on, the handset of the associated voice terminal is disabled. To convert from headset operation to voice terminal handset operation, it is necessary to momentarily depress the OFF button.

5.03 To convert from voice terminal operation to headset operation, depress the ON/QUIET button on the 500A adapter. The call will be transferred to the headset and the green LED on the adapter will light. Replace the handset in its cradle.

C. Privacy

5.04 To disable transmission from the head telephone set transmitter, when it is desired not to transmit local conversation to the distant party, depress and hold down the ON/QUIET button. Release the ON/QUIET button to resume transmission from the head telephone set transmitter.

D. Terminate Call

5.05 To terminate a call, replace the voice terminal handset and depress the OFF button on the 500A adapter.

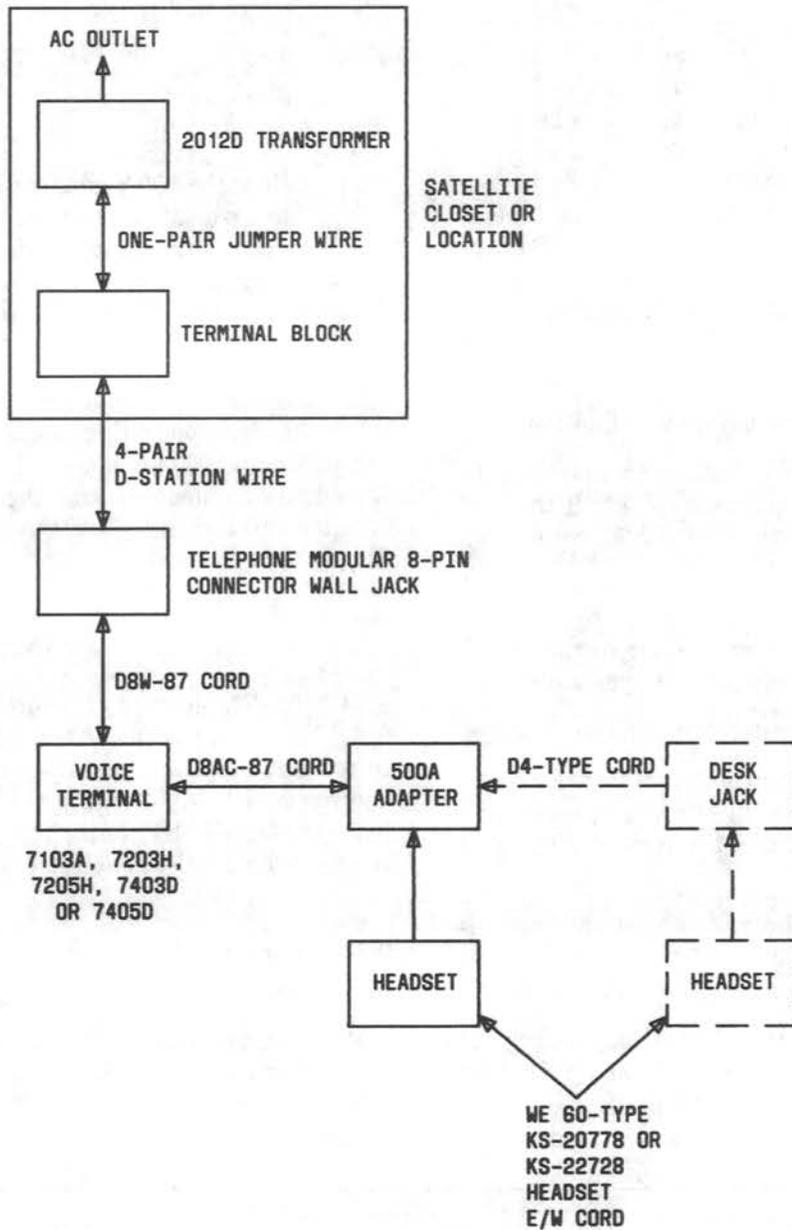


Fig. 3—Hardwired Remote Power Arrangement