DATA SET 202D TYPE TRANSMITTER-RECEIVER INSTALLATION

1. GENERAL

1.01 This section is reissued to:

- Change ac receptacle in Fig. 1, 2, and 3.
- Add note to Fig. 2 and 3

1.02 Data set 202D type and its associated control circuitry shall be installed in conformance with existing practices covering installation of station sets. This includes standard dc talk, signaling, supervision, and mounting requirements.

Note: The amount and type of control equipment required for each service application is shown in Section 592-016-100.

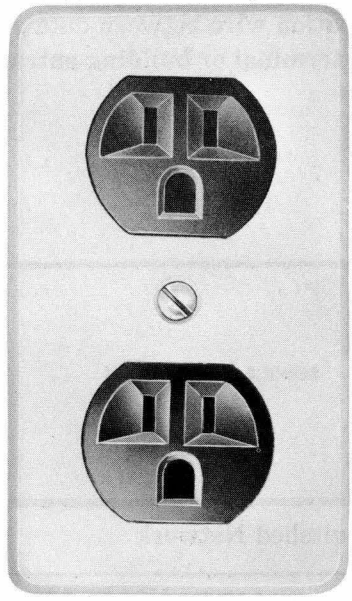


Fig. 1 — Standard 3-Wire Grounding Type Receptacle

2. INSTALLATION

2.01 The data set must be located within range of interface connector cord supplied by the customer. This cord must not exceed 50 feet in length.

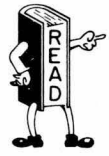
2.02 To avoid interference during data transmission, the following restrictions apply to the data line where practicable.

- Do not connect extension telephones.
- Use only on individual lines.

2.03 No provision is made for operation with 1A, 1A1, or 1A2 key telephone systems.

2.04 The customer must furnish a standard 3-wire grounding type power receptacle (Fig. 1). This receptacle must be on a circuit that is not controlled by a switch.

2.05 To avoid the possibility of data errors due to a potential difference between data set ground and business machine ground, the power outlet for the data set power cord should be served from the same ac distribution panel as the power outlet for the business machine. If they are not served from the same panel, a test using the 6A impulse counter should be made to detect excessive noise. This test procedure is described in Section 592-016-500. If the test requirement is not met, data set ground and business machine ground must be bonded together.



The method of providing this bond should be in accordance with local instructions.

Note: When data auxiliary set 801-type (automatic calling unit) is installed, a test between the ACU, data set, and the business machine must also be performed.

2.06 Verify that the overall facilities have been tested and meet the transmission requirements specified in Section 314-205-500.

2.07 To minimize inductive interference to data signals on the telephone (data) line, the line should not be carried in the same run as cable between data sets and customer's business machine or lines connected to dc teletypewriter services. If this requirement cannot be met, it will be necessary to run telephone (data) line in SK (shielded) station wire between data set and cable distribution terminal or building entrance.

2.08 The designation strip of the associated control data auxiliary set is furnished with designations DATA, TALK, and TEST. Additional designations must be added on certain service applications. Select the appropriate service application and add designations as shown in Table A.

2.09 Fig. 2 and 3 show main components of two typical installation layouts.

TABLE A

KEY DESIGNATIONS

SERVICE APPLICATIONS	DATA AUXILIARY SET 804A KEY DESIGNATIONS					
	TO BE ADDED			FURNISHED		
						
2-Wire Switched Network	‡	‡	‡	TEST	TALK	DATA
2-Wire Switched Network With Data Aux Set 801A	DIAL TONE	‡	‡	TEST	TALK	DATA
2-Wire Private Line Without Alternate Switched Network Line	RING	‡	‡	TEST	TALK	DATA
2-Wire Private Line With Alternate Switched Network Line	RING	*	‡	TEST	TALK	DATA
4-Wire Private Line Without Alternate Switched Network Line	RING	‡	‡	TEST	TALK	DATA
4-Wire Private Line With Alternate Switched Network Line (1 Switched Network Line)	RING	*	‡	TEST	TALK	DATA
4-Wire Private Line With Alternate Switched Network Lines (2 Switched Network Lines)	HOLD	(1) †	(2) †	TEST	TALK	DATA

*Add Telephone Number of Switched Network Line.
†Add Telephone Number of 1st and 2nd Switched Network Line.
(Do not assign Terminal Hunt Numbers)
‡Block Key By Using P-12A858 Blocking Ring.

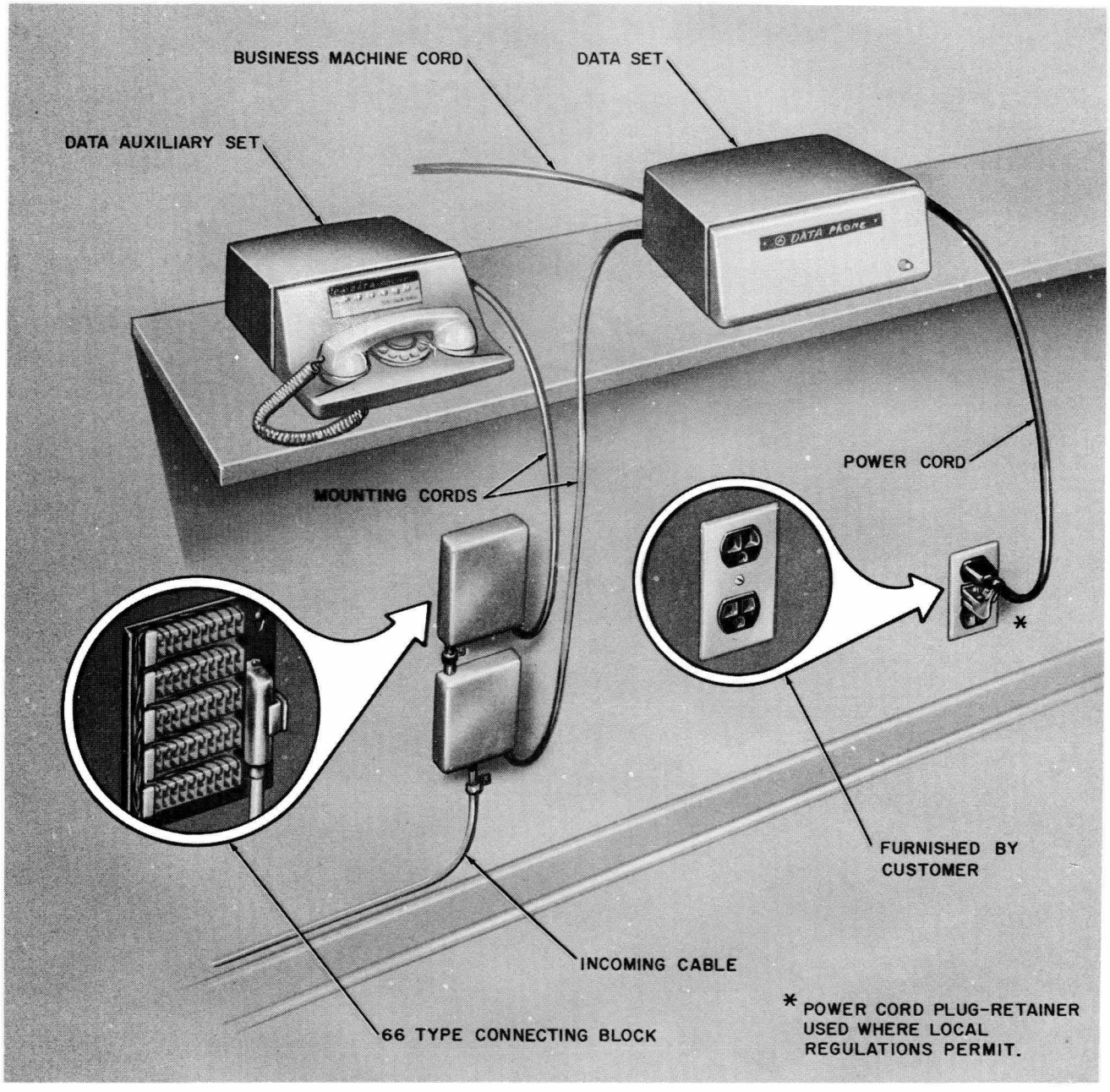
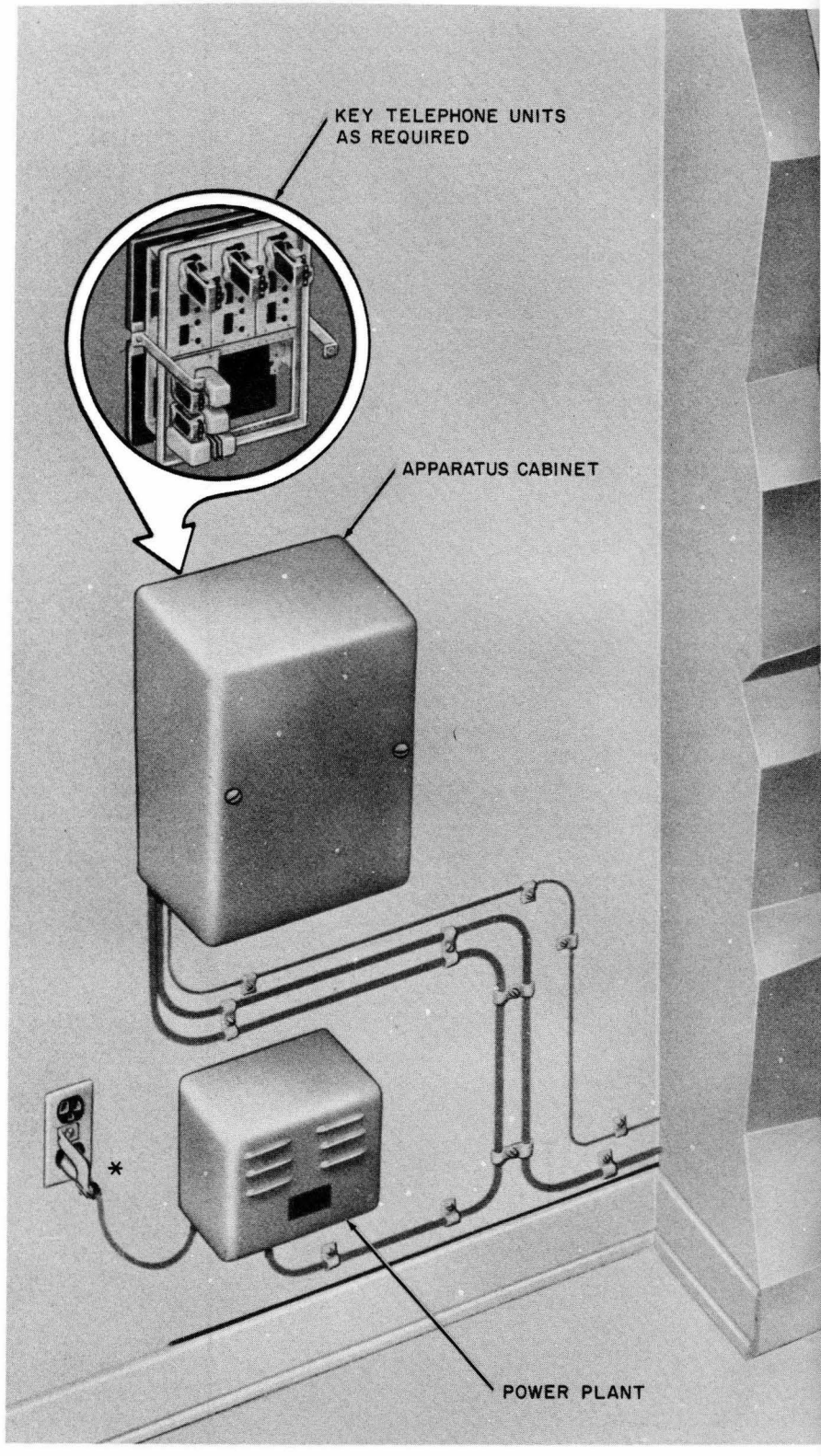


Fig. 2 — Main Components of Typical Installation Layout


KEY TELEPHONE UNITS
AS REQUIRED
APPARATUS CABINET
*
POWER PLANT

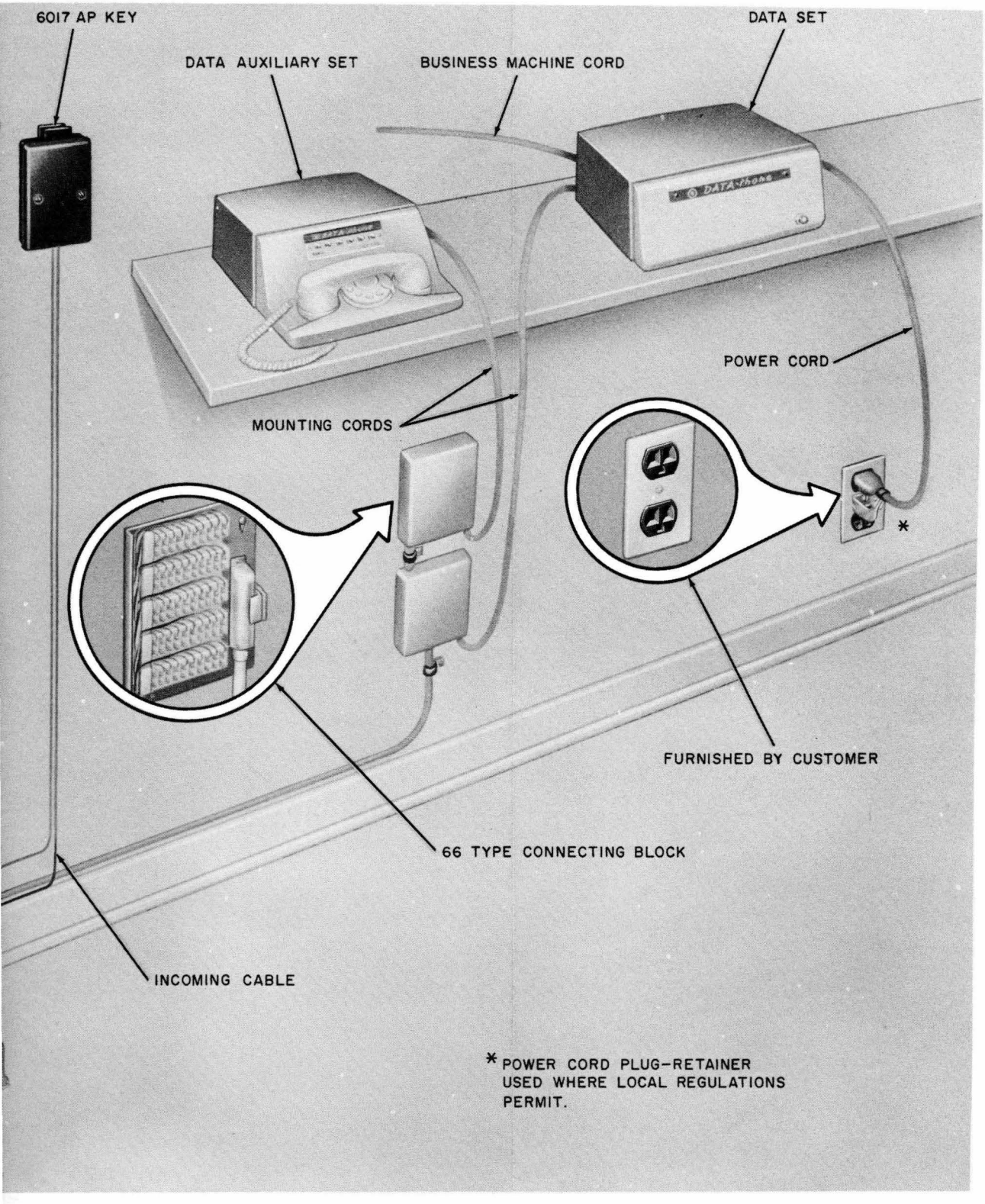


Fig. 3 — Main Components of Typical Installation Layout