DATA AUXILIARY SET 806A-TYPE

INSTALLATION

1. GENERAL

1.01 This section contains information needed to install a Data Auxiliary Set (DAS) 806A-type (Fig. 1), and connect the options which are available with it.

1.02 This section is reissued to:

- Delete any reference to the M2EP power cord
- Include information on the 2075A transformer
- Include instructions for multiple arrangement.

1.03 The installer should be familiar with the sections entitled Data Sets—General Installation and Connection Information (590-010-200) and Connecting Blocks 66-Type—Tools, Terminating, Adapters, and Maintenance (461-604-100) before installation is started on the DAS. After the installation is completed, the set should be tested in accordance with the sections entitled Data Auxiliary Set 806A-Type—Test Procedures (598-036-500) and Transmission Maintenance of 4-Wire Facilities—Equipped With Data Auxiliary Set 806A-Type (314-410-501). No special tools or equipment are required to install the DAS or strap the options.

2. OPTION CONNECTION

2.01 The options listed in Table A are available with this DAS. Table A also lists the connections which must be made on TB1 to strap the options. The external connections to the DAS (customer equipment and facility lines) are made on TB2. See Fig. 2 for TB1 and TB2 location.

2.02 The DAS cover may be removed by loosening the 4 captive screws (Fig. 1) and lifting it off.

2.03 The clips of TB1 are designed for making connections with unskinned wire of the types and gauges listed in Table B. Wires larger than 20 gauge must ***not*** be used. Wires not listed in Table B must be skinned (and cleaned if enameled). The required option connections are made by inserting the wire into the clips with a 714B tool.

3. INSTALLATION INSTRUCTIONS

3.01 The DAS is designed to be mounted on a wall, although it may be mounted on a desk or shelf. It is secured in place with a screw in each of the four corners. The top two screw holes are keyhole-shaped to allow the installer to drive the top screws, hang the DAS on them, and then secure the set with the bottom screws. Fig. 3 can be used to properly locate the screw holes and to allocate space for multiple arrangement.

3.02 The power required by the DAS is supplied by a 2075A transformer, mounted external to the DAS. The transformer is equipped with a 13-inch power cord and should be mounted close enough to a standard 3-wire grounding-type power receptacle to utilize this cord. The receptacle must be on a circuit that is ***not*** controlled by a switch. The transformer should be connected to the DAS with wire listed in Table B. (The wires should be twisted.) For additional information, refer to SD-1D053-01.

3.03 When several DAS's are to be installed at one location, they should be affixed to the wall as shown in Fig. 4 or 5. The power leads and facility wiring should be routed as shown. If Bell System cabinets are available at the customer location, the DAS's may be placed in them.

3.04 External connections to the DAS are as follows:

- Telephone facilities—T to TB2-3, R to TB2-8
  T1 to TB2-9, R1 to TB2-10
- Customer facilities—DT to TB2-1, DR to TB2-2
  DT1 to TB2-4, DR1 to TB2-5
- Power transformer—Twisted pair to TB1-5 and 6

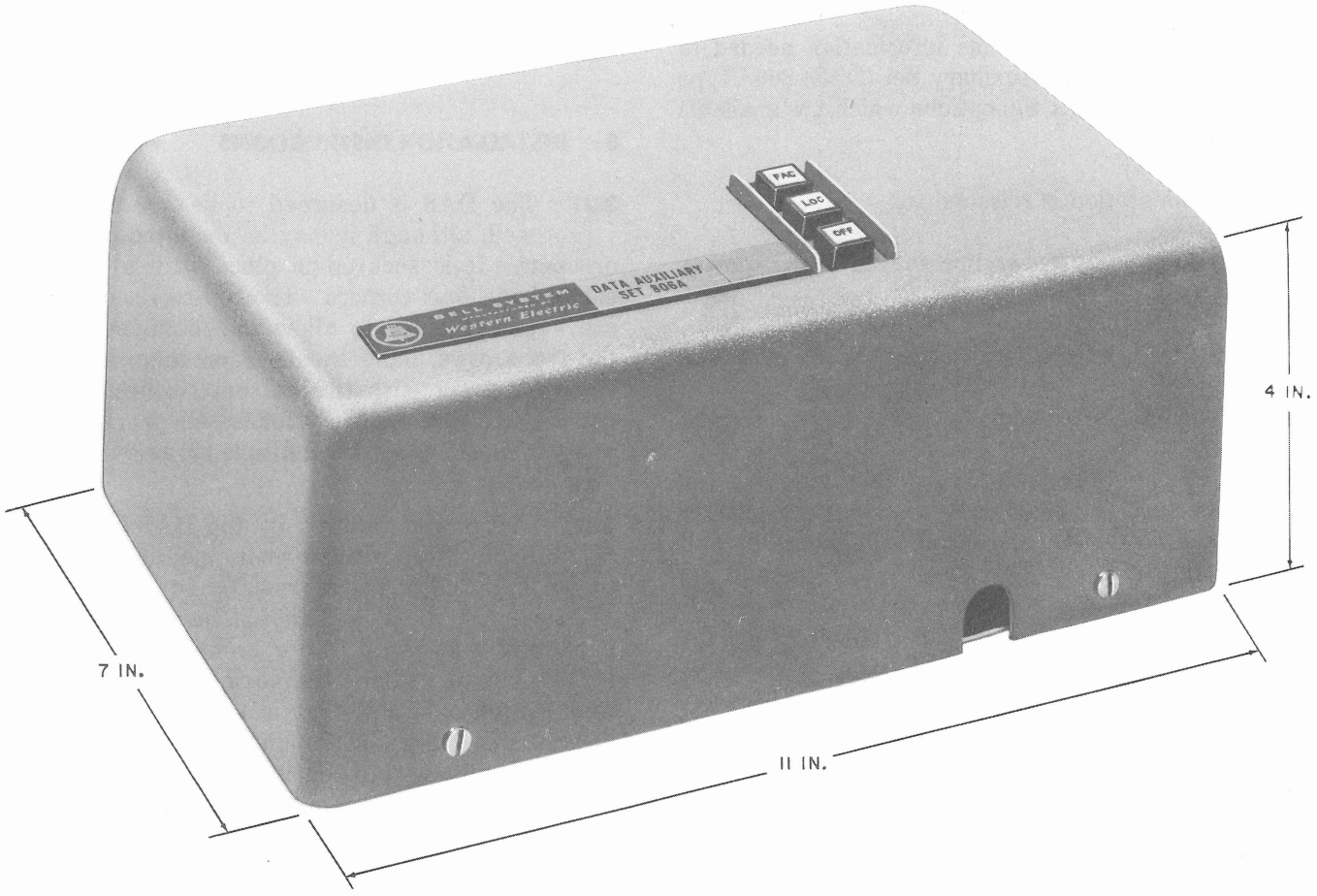


Fig. 1—DAS 806A-Type

TABLE A

OPTION CONNECTIONS AND IDENTIFICATION

OPTION	DESIG	TB1 CONNECTIONS	
		FROM TERM.	TO TERM.
Metallic transmission paths	Z	1 2 9 10	18 17 20 19
Repeat coil in receive leg	Y	1 2 9 10 15 16	11 14 20 19 18 17
Repeat coil in transmit leg	X	1 2 11 14 15 19	18 17 9 10 20 16
Line loop-back conditioned for wet line	V	11 12 14 15 16	27 13 25 39 40
Line loop-back conditioned for dry line	W	25 27	40 39
With auxiliary local key	M	33 34 35	Connected to AUX Switch Connected to AUX Switch Connected to AUX Switch
Without auxiliary local key	N	33	34
Station side looped	R	22 24 28	21 26 30
Station side terminated	S	21 29	23 30
Used with X or Y option when line is wet	J	12	13

TABLE A (Cont)

OPTION	DESIG	TB1 CONNECTIONS	
		FROM TERM.	TO TERM.
DC signaling facility indicator	F	31	33
DC loop signaling	H	37 38	13 12
DC simplex tip side grounded	K	7 13	37 38
DC simplex balanced to ground	T	7 12 38	37 13 12
DC simplex ring side grounded	G	12 7	38 37
Binary operation	A	3	4

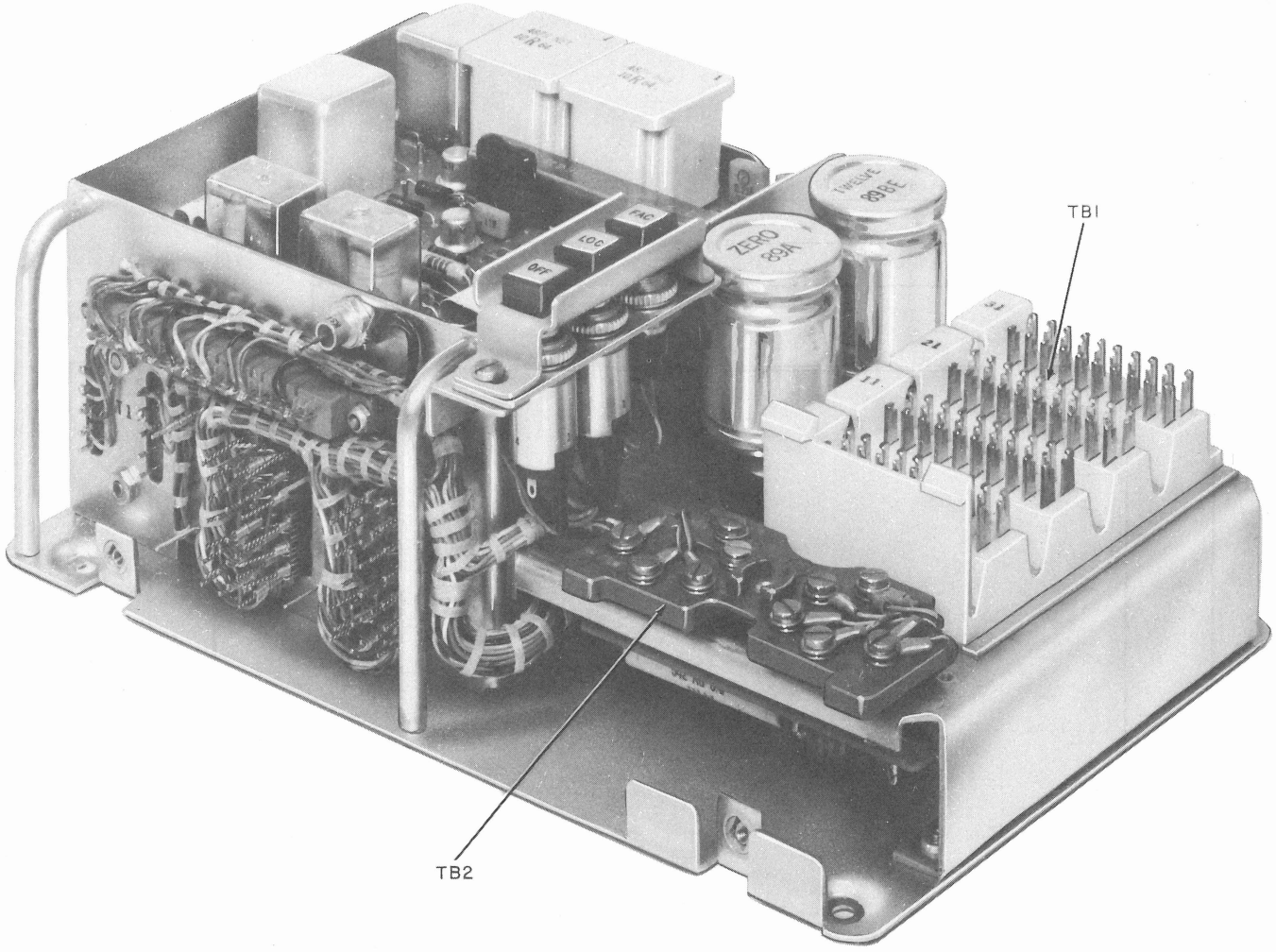
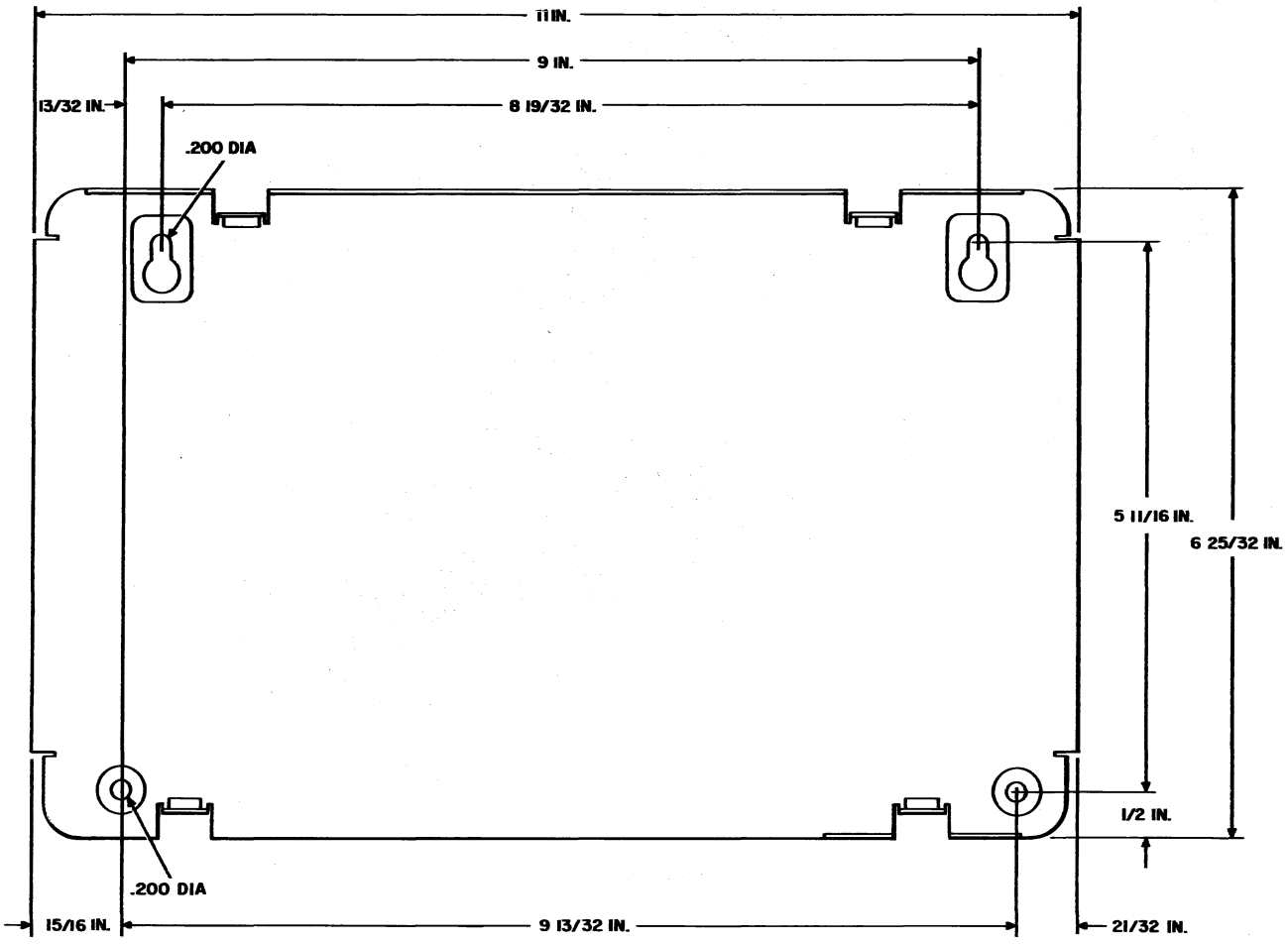


Fig. 2—DAS 806A-Type—Cover Removed

TABLE B

GAUGE	TYPE
20-24	D, F, and G cross-connecting wire
20-24	D inside-wiring cable
20-24	D station wire
20-24	E inside-wiring cable



DAS 806A TYPE BASE PLATE

Fig. 3—DAS 806A-Type—Mounting Diagram

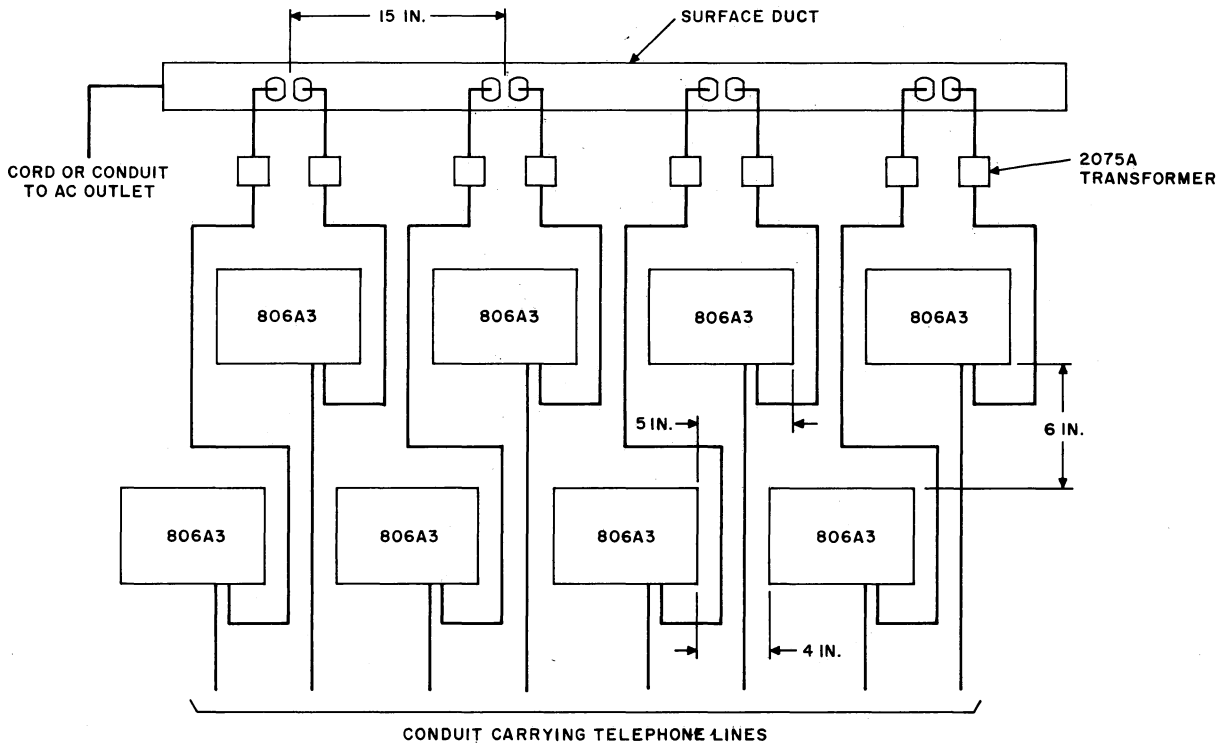


Fig. 4—Recommended Installation Using Surface Duct

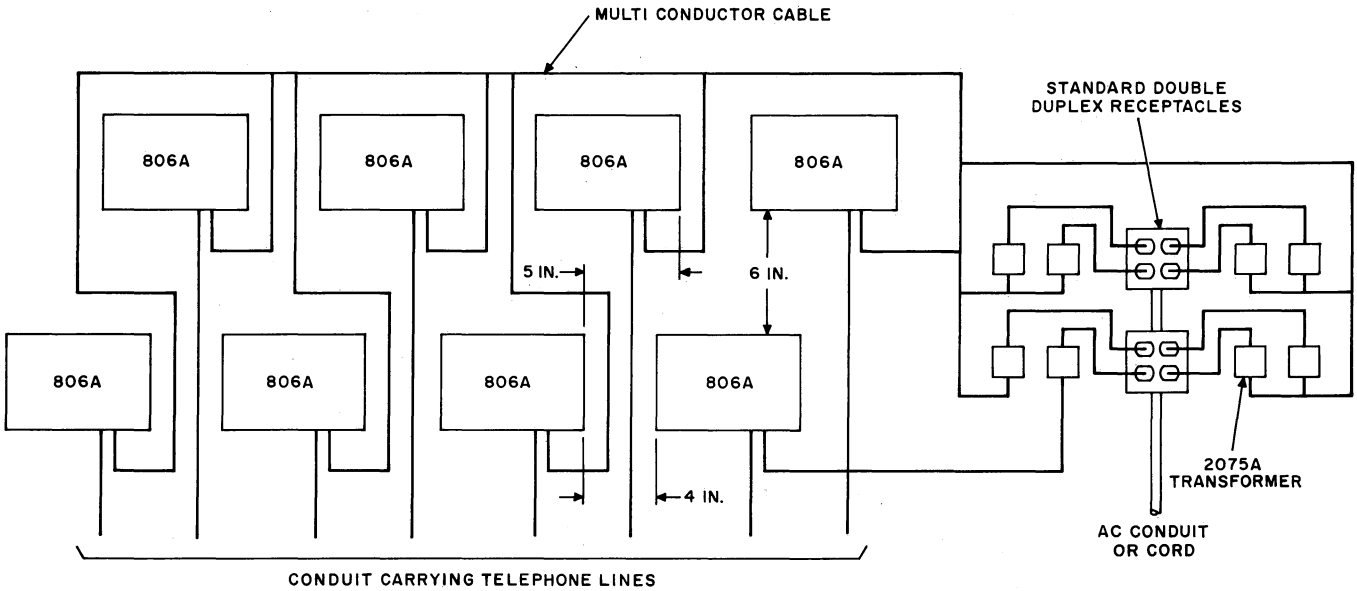


Fig. 5—Recommended Installation Using Standard Receptacles