# 32A-TYPE DATA MOUNTING IDENTIFICATION

## 1. GENERAL

**1.01** This section describes in general terms the physical dimensions, weight, major components, and use of the 32A-type data mounting.

**1.02** This section is reissued to add information on the 32A2 data mounting.

**1.03** The 32A-type data mounting provides the housing for and the delivery of power to data sets (DSs) 113B-type used in the 113-type data station. The 32A-type data mounting can house 20 DSs 113B-type, each of which is contained on a single printed circuit card (9-1/3 inches high, 1-1/2 inches wide, and 9-3/4 inches deep).

**1.04** ▶The 32A2 data mounting is the same as the 32A1 data mounting except as follows:

(a) The 41D1 power unit is changed to a 41D2 power unit.

(b) Filter capacitors C1 through C7 are added.◀

## 2. DESCRIPTION

**2.01** The 32A-type data mounting (Fig. 1) is 20 inches high, 23 or 25 inches wide, 11 inches deep, weighs 45 pounds without data sets, and mounts in either 23- or 25-inch racks. It requires 125 watts of power at 105 to 130 volts and 57 to 63 Hz.

**2.02** The 32A-type data mounting consists of the following components: two nest assemblies, one 41D-type power unit, one 2215D transformer (TF1) with two full-wave rectifiers, twenty 927A connectors, four KS-16672-L3 connectors, one KS-20143-L13 connector, one KS-19088-L2 connector, one 7595 Hubbell® inlet, one 7593 Hubbell connector, one screw switch option block, one terminal block, two fuse blocks, two fuse holders, one service line on a cord reel, and one 479E key.

**2.03** Each of the two nest assemblies can house 10 DSs 113B-type.

**2.04** The 41D-type power unit provides power for up to 20 DSs 113B-type and the AR529-type circuit pack in the optional data auxiliary set (DAS) 804T-type. Input power protection is provided by a fuse contained on the power unit.

**2.05** The 2215D transformer and the two associated full-wave rectifiers provide lamp power to the optional DAS 804T-type.

**2.06** The twenty 927A connectors (J1-J20) are 40-pin connectors into which DSs 113B-type are inserted.

**2.07** The four KS-16672-L3 connectors (J21-J24) are 50-pin connectors. J21 and J22 provide connections to the optional DAS 804T-type. J23 provides a means of connecting the telephone line inputs (tip and ring) to each of the 20 data sets and the service line. J24 provides access to the sleeve leads for the data sets.

**2.08** The KS-20143-L13 connector (J27) connects to the output (P2) on the 41D-type power unit.

**2.09** The KS-19088-L2 connector (TM) conforms to the Electronic Industries Association (EIA) Standards. It is used to facilitate remote testing when connected to a data set interface connector.

**2.10** The 7595 Hubbell inlet (J25) provides access for 117V, 60-Hz power to the 32A-type data mounting.

**2.11** The 7593 Hubbell connector (J26) connects the 117V, 60-Hz power to the input connector (P1) on the 41D-type power unit.

**2.12** The screw switch option block provides a means of installing or removing common

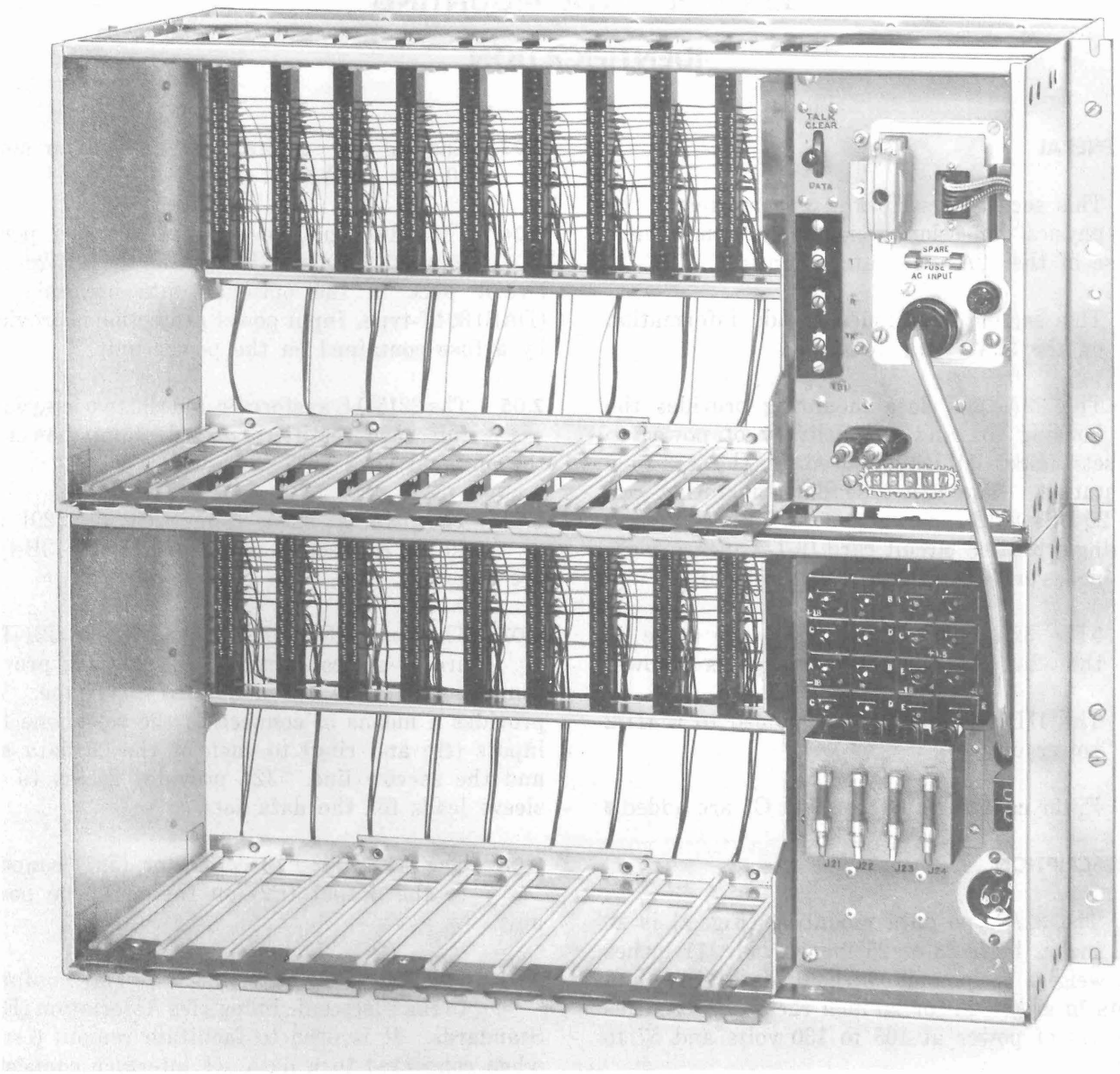


**Fig. 1—32A-Type Data Mounting**

grounds and providing a dummy load for installations equipped with less than 10 data sets.

**2.13** The terminal block (TB1) provides access to tip (T) and ring (R) of the service line. The TK terminal is used to facilitate remote testing.

**2.14** Two fuse blocks house 16 fuses. Fuses F1 through F12 protect DSs 113B-type (see Table A). Fuses F13, F15, and F16 protect circuitry in the optional DAS 804T-type (see Table B).

*Note:* Fuse F14 is a spare.

**2.15** One of the two fuse holders contains fuse F17 which protects the primary side of TF1, while the second fuse holder contains fuse F18 which protects the secondary side of TF1 (see Table C).

**TABLE A**

**DATA SET FUSING ARRANGEMENT**

| VOLTAGE | J1-J5 | J6-J10 | J11-J15 | J16-J20 |
|---|---|---|---|---|
| +18V | F1 | F2 | F3 | F4 |
| −18V | F5 | F6 | F7 | F8 |
| +4.5V | F9 | F10 | F11 | F12 |

**TABLE B**

**804T FUSING ARRANGEMENT**

| VOLTAGE | J21 |
|---|---|
| +18V | F16 |
| −18V | F15 |
| +4.5V | F13 |

**TABLE C**

**LAMP POWER SUPPLY FUSING**

| VOLTAGE | 32A-TYPE DATA MOUNTING |
|---|---|
| 117Vac | F17 |
| +11V | F18 |

**2.16** The service line on a cord reel is used to facilitate remote testing when plugged into a particular data set.

**2.17** The 479E DATA/TALK-CLEAR key provides local control of the service line when used for testing a data set.

## 3. REFERENCES

**3.01** Detailed information for the 32A-type data mounting is contained in the following Bell System Practices.

| SECTION | TITLE |
|---|---|
| 591-814-100 | 113-Type Data Station— Description and Operation |
| 591-814-180 | 113-Type Data Station—Summarizing Specification— Data Systems |
| 591-814-200 | 113-Type Data Station— Installation |
| 591-814-300 | 113-Type Data Station— Maintenance |
| 591-814-500 | 113-Type Data Station— Test Procedures |

**3.02** The following schematic drawing and circuit description include information on the 32A-type data mounting.

SD- & CD-1D208-01 Data Systems Station—Data Set 113B-Type and 32A-Type Data Mounting—Part of 113-Type Data Station