

**WIDEBAND DATA STATION USING DATA SET 303-TYPE
TWO-WIRE SWITCHED SERVICE
(460.8 Kbps DATA OVER PICTUREPHONE® FACILITIES)
INSTALLATION AND CONNECTIONS**

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1. GENERAL

1.01 This practice provides the necessary information for installing and connecting a 303-type wideband data station that is used to transmit data over PICTUREPHONE facilities. The connections and options in this practice apply only to data on PICTUREPHONE facilities.

1.02 The information in this practice does not replace other sections for installation and connection of Data Set (DS) 303-type.

1.03 The data set configuration in this section applies only to DS 303J26. Other types of service for both commercial and governmental use are found in sections entitled Wideband Data Station Using Data Set 303 (593-800-ZZZ). Information applicable to the business machine is not included.

1.04 This section will include installation information for the 114A Interconnecting Unit when located within the wideband data station cabinet. Connection information is also included for use when connecting the wideband data station to the 114A Interconnecting Unit. For additional information, refer to section "PICTUREPHONE®" Connecting Arrangement PVF, 114A Interconnecting Unit (463-390-ZZZ).

1.05 This section also includes installation and connection information for Data Auxiliary Set (DAS) 801C4; however, the unit is not necessarily used but may be provided on an optional basis. For information other than that contained in this practice, refer to Section 598-012-101.

1.06 Photographs used in this section are of lab models and production models may vary slightly.

2. MECHANICAL ASSEMBLY

2.01 This part describes the installation and location of the cabinet (Fig. 1) and equipment that is common to both station arrangements.

2.02 The DS 303 and DAS 806 may be installed in the KS-20018, List 4 cabinet. When the List 4 cabinet is provided, it will also accommodate the DAS 801C4 and the 114A Interconnecting Unit.



Fig. 1—Wideband Data Station Cabinet

Data Auxiliary Set 806D1 and DS 303J26 are mounted into the cabinet with 87-type brackets listed in Table A.

2.03 The 114A Interconnecting Unit and DAS 801C4 may be mounted inside the cabinet on two KS-20018-L9B shelves. The two shelves should be located at the two lower-tier locations within the cabinet. When the 114A Interconnecting Unit is to be provided external to the cabinet, it will be necessary to install only a single shelf within the cabinet to accommodate the DAS 801C4.

2.04 The cabinet should be located within range of the interface cable which is to be supplied by the customer. This cable should not exceed 50 feet in length. A well lighted and well ventilated area with adequate surrounding floor space should be selected. Easy access to both the front and back of the set, after the panels have been removed, is of prime importance.

2.05 The power outlet, which is to be furnished by the customer, should be equipped with a 3-wire, U-ground duplex receptacle (UL approved and rated at 60 Hz, 117 volts ac, 15 amp).

2.06 A common ground should exist between the data station and the business machine.

2.07 The data set, data auxiliary sets, and 114A Interconnecting Unit derive their ac power from an outlet box located to the left (as viewed from the rear) of DS 303. The outlet box derives its power from the customer-provided ac outlet.

2.08 The 114A Interconnecting Unit may be remotely located from the KS-20018 cabinet by a maximum distance of 100 cable feet. When

located remotely, the extender cable should be provided in a separate cable run in order to minimize interference. Cable runs with foreign services and power cables should be avoided.

3. COMPONENT INSTALLATION

3.01 The following paragraphs will describe the installation and cabling connections of the DS 303J26, DAS 806D1, DAS 804A7, DAS 801C4, and the 114A Interconnecting Unit.

3.02 Either of two PICTUREPHONE line arrangements may be provided with the 460.8 kilobits per second (kbps) wideband data station, ie, single station line and key telephone system. The data station may be provided with the automatic calling capability (DAS 801C4) in either of these arrangements.

3.03 The data station apparatus should be installed and all connections made to conform to existing practices covering the installation of station sets.

3.04 When the station installation is complete, it should be inspected and tested as described in the installation test of the section entitled Wideband Data Station Using Data Set 303-Type, Two-Wire Switched Service, (460.8 KBPS Data Over PICTUREPHONE® Facilities), Test Procedures (593-800-511).

TABLE A
BRACKETS REQUIRED FOR MOUNTING DATA APPARATUS

| DATA APPARATUS | DATA SET 303J26 | DATA AUXILIARY SET 806D1 |
|---------------------|---------------------------|--------------------------|
| | CODE OF BRACKETS REQUIRED | |
| KS-20018-L4 Cabinet | 87T* | 87B |

* The 87T bracket mounting Data Set 303J26 will also accommodate the mounting of KS-20598-L1 outlet box which serves as the ac power distribution point for apparatus located within the cabinet.

**DATA SET 303J26, DATA AUXILIARY SET 804A7,
AND DATA AUXILIARY SET 806D1**

A. General

3.05 The following part of this practice will describe the installation of DS 303J26, DAS 804A7, DAS 806D1, and the 114A Interconnecting Unit when located within the wideband data station cabinet. In some installations, a DAS 801C4 may be provided. When DAS 801C4 is provided, refer to the part of this section entitled Data Set 303J26, Data Auxiliary Set 804A7, Data Auxiliary Set 806D1, and Data Auxiliary Set 801C4. Figure 2 shows a complete wideband data station and also shows the 114A Interconnecting Unit installed in the data station cabinet. The 114A Interconnecting Unit and DAS 801C4 may, however, be mounted outside the cabinet. The L4 cabinet may still be used since the larger cabinet permits flexibility in arrangement. Figures 3 and 4 show a block wiring diagram of the single line station and key telephone system arrangements.

B. Assembly

3.06 The chassis of DS 303J26 with its 87-type mounting bracket attached is fastened to the mounting strips (located on the side of the cabinet) by four or eight bolts which screw into prethreaded holes (a minimum of two on each side). The DS 303J26 is to be mounted in the position shown in Fig. 2. When viewing the station from the front, the 26A power unit should be located on the left side.

3.07 Circuit packs are mounted and shipped in their proper positions in the data mounting. Verify the locations of all circuit packs prior to installing options and cabling. Refer to Table B for circuit packs and their locations.

3.08 The DAS 806D1 used as part of this type data station should be located at the top of the cabinet. It should be installed from the front side of the cabinet and mounted directly above the DS 303J26. The 26A power unit (part of DAS 806D1) is located on the left side of the cabinet as viewed from the front. See Table A for mounting bracket.

3.09 Data Auxiliary Set 806D1 is also shipped with circuit packs installed. Refer to Table C and verify the circuit packs and their locations.



This practice refers to DAS 804A7; however, the DAS 804A3 may be used for most installations. The DAS 804A7 must be used on all UNIGAUGE lines and ESS central offices.

3.10 The DAS 804A7 is desk-top type telephone equipment and is not to be mounted inside the cabinet. It may be placed on top of the cabinet or at any other convenient location within 75 feet of the associated DAS 806D1. When the DAS 804A7 is to be located on top of the station cabinet, connection to the DAS 806D1 is made by using a 5-foot extension B25A cable. The B25A-type cable is available in 5-, 15-, 30-, or 60-foot lengths.

3.11 Two KS-20018-L9B shelves may be provided within the cabinet for mounting the DAS 801C4 and the 114A Interconnecting Unit as required. The shelves should be mounted from the front of the cabinet in the positions shown in Fig. 5 and secured with the screws provided.

3.12 The 114A Interconnecting Unit is part of the PICTUREPHONE line facilities; therefore, it is not necessary that it be mounted in the wideband data station cabinet. The 114A Interconnecting Unit may be remotely located from the data station by a distance not to exceed 100 cable feet. When it is desired to locate the 114A Interconnecting Unit inside the data station cabinet, it should be located on a shelf installed in the lower-tier position. Prior to installing the 114A Interconnecting Unit, carefully remove and store its cover in a safe place for future use. Refer to Fig. 6 which shows the 114A Interconnecting Unit with the cover removed. When the 114A Interconnecting Unit is to be installed in the data station cabinet, it should be installed from the front side. Connecting cables attached should exit to the left as viewed from the front of the cabinet. (See Fig. 2.)

C. Cabling and Connections

3.13 All connections to the components in the station are made from the rear of the cabinet. Options wired into the sets are made on terminal boards located at the rear of the sets.

3.14 Access to the customer's interface cables is made through the rectangular access port in the rear center of the base. Interface cables should be dressed neatly up the rear of the cabinet. The

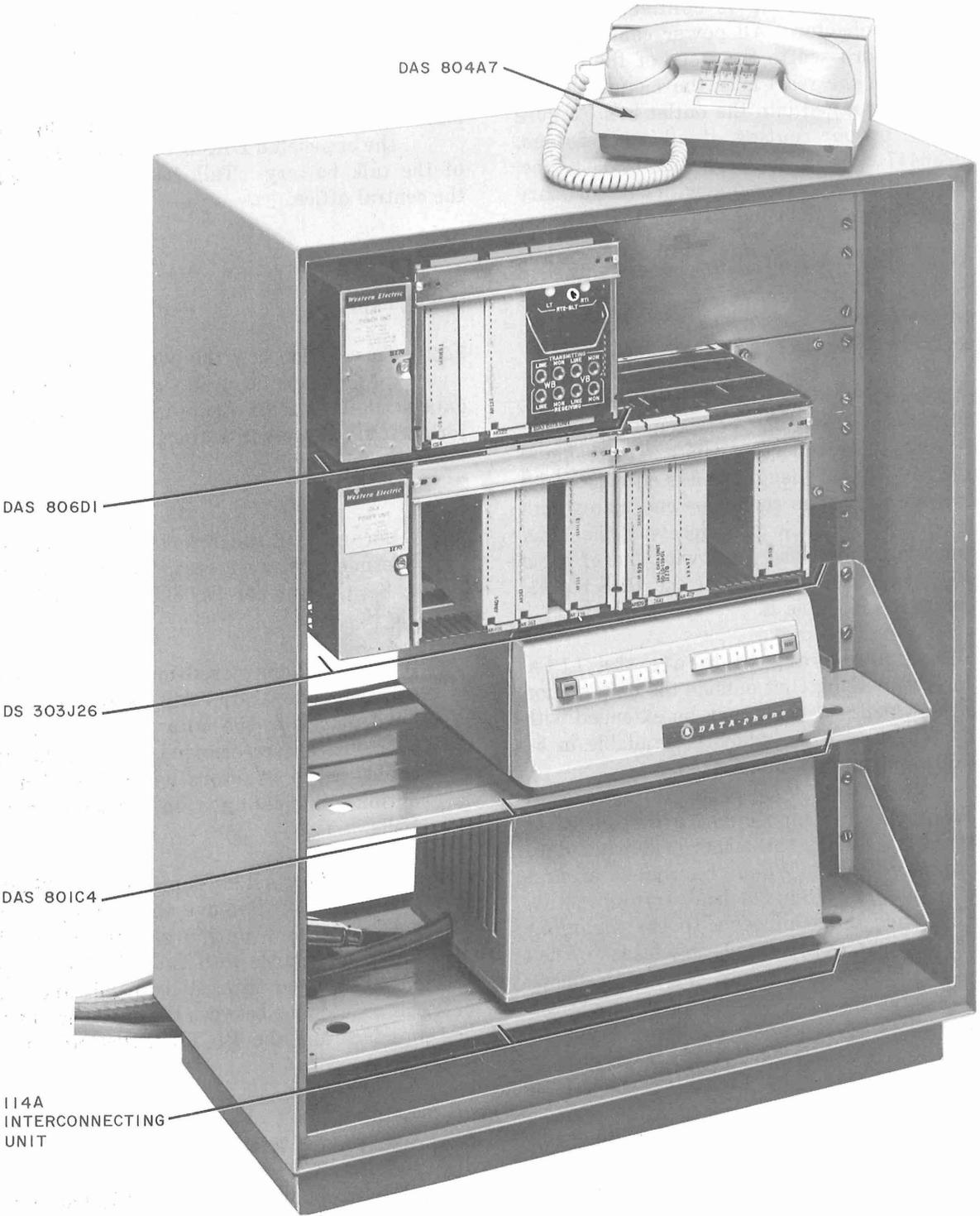


Fig. 2—Data Set 303J26 Wideband Data Station

SECTION 593-800-211

customer-provided, high-speed data cable equipped with a KS-19402-L1 plug is connected to the synchronous connector. All power cables should be located and dressed to the sides of the cabinet (as viewed from the rear) near the mounting strip and should be plugged into the outlet box. Figure 7 shows the proper routing of all other cables. The 840286447 cable is supplied with DS 303-type. Cables and connectors associated with data auxiliary sets are listed under their individual categories.

3.15 One cable is required to connect the DAS 806D1 to the DS 303J26. This cable is coded 840286447 and is provided with DS 303J26. Refer to Table D for these connections.

3.16 A separately provided cable, coded 840286454, provides connections between DAS 806D1 and the 114A Interconnecting Unit. This cable is approximately 5 feet in length and is equipped with a 50-pin connector. The connector end mates with the plug end of the cable provided with the 114A Interconnecting Unit. The loose wire end of cable 840286454 should be connected at the DAS 806D1, TB1 as indicated in Table E.

3.17 When necessary to locate the 114A Interconnecting Unit outside the data station cabinet, the 840286454 cable may be extended with a B25A connecting cable which is available in 5-, 15-, 30-, 60-, and 100-foot lengths.

3.18 Telephone line connections are required at the DAS 806D1 for either wideband data station arrangement. When the wideband data station is used in a single line arrangement, connections are made directly to the incoming 2-wire TOUCH-TONE® tip and ring leads. When the wideband data station is used in a key telephone system arrangement, telephone line connections are made to the 1P2 key telephone system. Telephone line connections should be provided as required in accordance with Table F and Fig. 3 or Fig. 4.

3.19 When the DAS 801C4 automatic calling unit is not provided and the wideband data station (WDS) is used in the single line station arrangement, additional connections between DAS 806D1 and the 114A Interconnecting Unit are necessary. Make connections indicated in Table G and Fig. 4.

3.20 The DAS 804A7 is equipped with a D50R-61 mounting cord. Access for the cord to the data set is through the rear opening at the base

of the cabinet. The cord should be plugged into J5 on the rear of the DAS 806D1 and held in place with clamp attached to rear cover plate of DAS 806D1.

3.21 Power for the DAS 804A7 is supplied by the associated DAS 806D1 with the exception of the talk battery. Talk battery is supplied by the central office.

D. Options

3.22 This section lists the wiring options required in the various units within the wideband data station. Factory-installed options are listed for craft employee verification.

Data Set 303J26

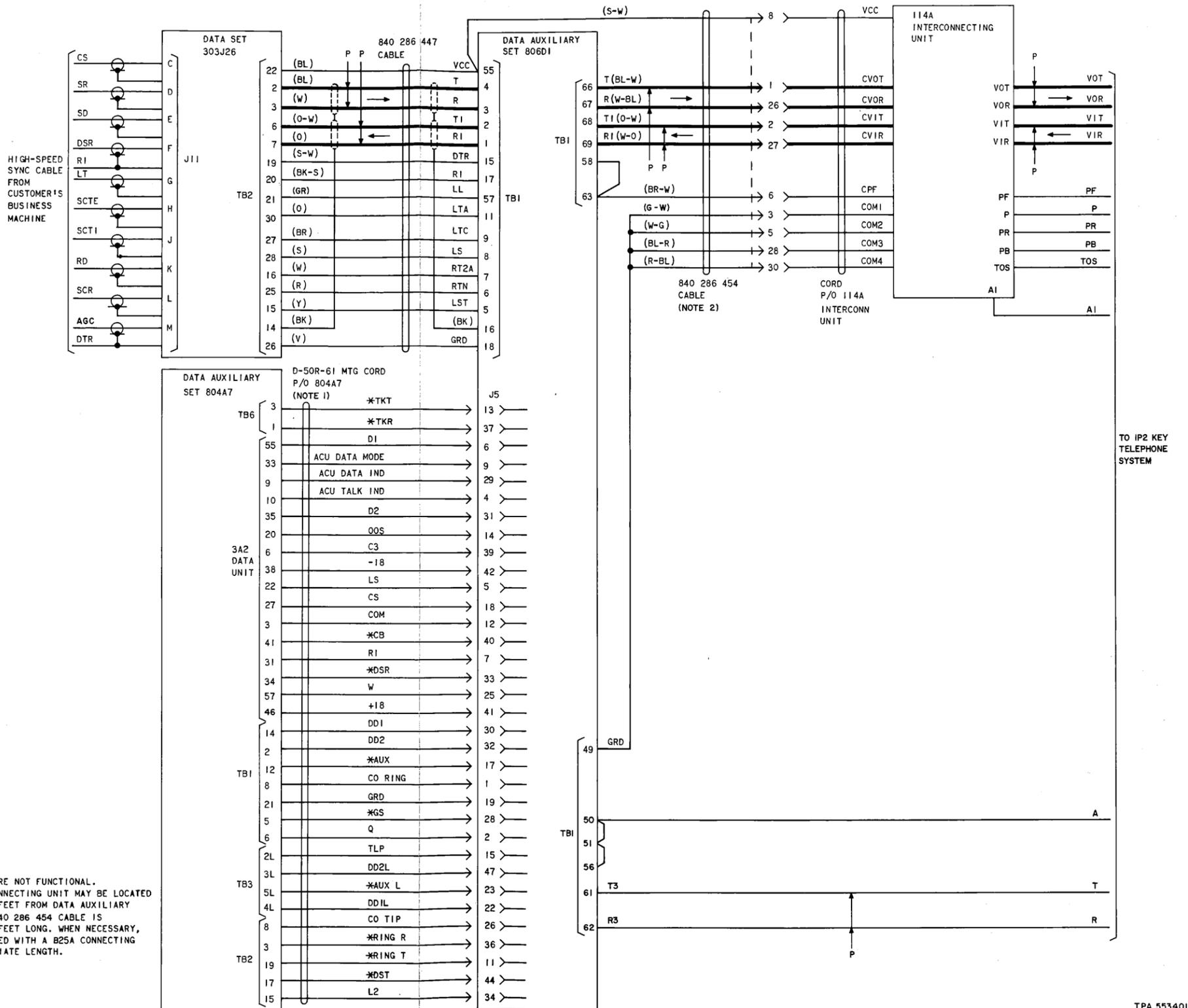
3.23 Location of the interface connectors and terminal blocks corresponds to those shown in Fig. 8. Options for DS 303-type will be found in Table H.

Note: Options wired into DS 303-type and associated apparatus will be recorded on the label placed in the data station cabinet. If circuit packs are changed, this should also be noted. Such notations will aid in identifying options and changes on subsequent repair visits.

3.24 Circuit pack AR361 is provided in DS 303J26, location J8. Remove this circuit pack and verify that factory option strapping has been provided in accordance with Table I. This strapping provides the proper internal transmit and receive data pair connections between the dc-coupled balanced line interface and the PICTUREPHONE loop line interface.

Data Auxiliary Set 806D1

3.25 Certain options within DAS 806D1 are required for this particular data station arrangement. Refer to Table J and apply options as required. Location of terminal boards corresponds to those shown in Fig. 9. For additional information applicable to options, refer to the section entitled 32A-Type Data Unit, Description and Operation (590-100-122).



NOTES:
 1. LEADS MARKED * ARE NOT FUNCTIONAL.
 2. THE 114A INTERCONNECTING UNIT MAY BE LOCATED UP TO 100 CABLE FEET FROM DATA AUXILIARY SET 806D1. THE 840 286 454 CABLE IS APPROXIMATELY 5 FEET LONG. WHEN NECESSARY, IT MAY BE EXTENDED WITH A B25A CONNECTING CABLE OF APPROPRIATE LENGTH.

Fig. 3—Key Telephone System Arrangement—Automatic Calling Unit not Provided

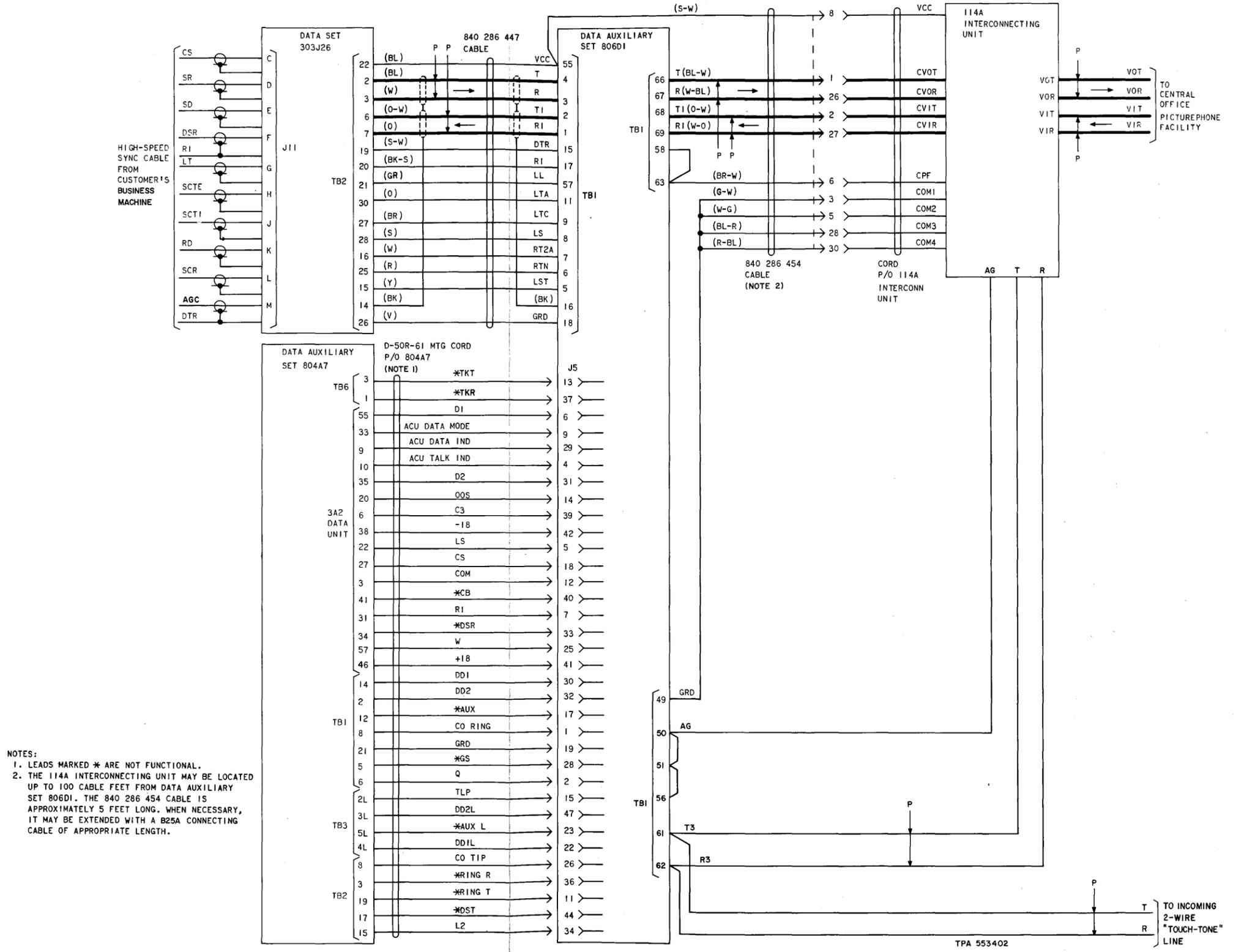


Fig. 4—Single Line Station Arrangement—Automatic Calling Unit not Provided

TABLE B
DATA SET 303J26 CIRCUIT PACKS

| LOCATION (See Note) | CIRCUIT PACK | |
|------------------------|-------------------|--------------------------------------|
| | CODE | FUNCTION |
| J1 | AR513 | PICTUREPHONE loop line interface |
| J4 | AR407 | Sync recovery and signal regenerator |
| J5 | 16A1 Data Unit | Scrambler/descrambler |
| J6 | AR579 | Signal control |
| J7 | AR135 | Unbalanced customer interface |
| J8 | AR361 | DC-coupled balanced line interface |
| J9 | AR406 | Clock generator |

Note: Data Set 303J26 jacks are numbered from right to left as viewed from the front (circuit pack plug-in side) of the data set.

TABLE C
DATA AUXILIARY SET 806D1 CIRCUIT PACKS

| LOCATION (See Note) | CIRCUIT PACK | |
|------------------------|-------------------|------------------------------|
| | CODE | FUNCTION |
| J1 | CS4 | Coordination channel unit |
| J2 | AR122 | 2800-Hz Remote test detector |
| J3 | 10A3 Data Unit | Line circuit |

Note: Data Auxiliary Set 806D1 jacks are numbered from left to right as viewed from the front (circuit pack plug-in side) of the data set.

Data Auxiliary Set 804A7

3.26 Options required in DAS 804A7 for this particular station arrangement are listed in Table K. Refer to the section entitled Data Auxiliary Set 804A-Type, Identification and Connections (598-030-200) for application of options.

3.27 In addition to the options in Table K, the physical appearance is changed by the addition of a key designation strip under the press-fit, plastic key number strip. Key designation strips are provided in a separate container attached to the data auxiliary set. Locate the strip which provides designations in accordance with Fig. 10.

To place or replace the key designation strip, pry plastic key strip from the edge slightly and lift over keys. If a prestamped key designation strip is not factory-provided, a locally provided key designation strip must be stamped in accordance with Fig. 10 and installed under the plastic key strip.

3.28 The mechanical operation of the AUTO, TST, and WB CHAN keys must be changed. The WB CHAN key must be blocked by inserting a P-12A858 blocking ring under the key. The AUTO and TST keys should be altered to make them locking. This is accomplished by removing the cover and installing screw P-10E837. In addition

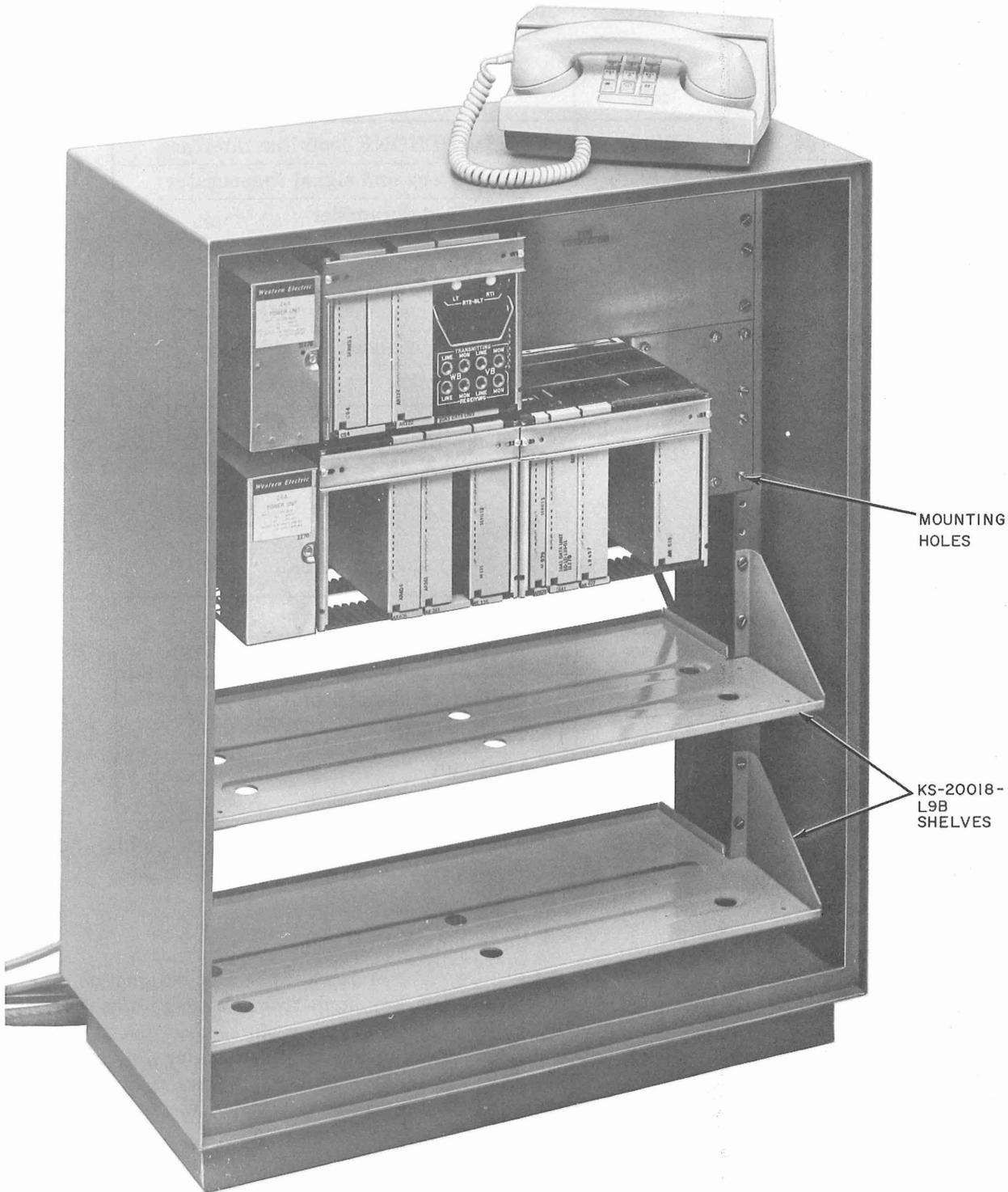


Fig. 5—Location of KS-20018-L9B Shelves When Mounted in Cabinet

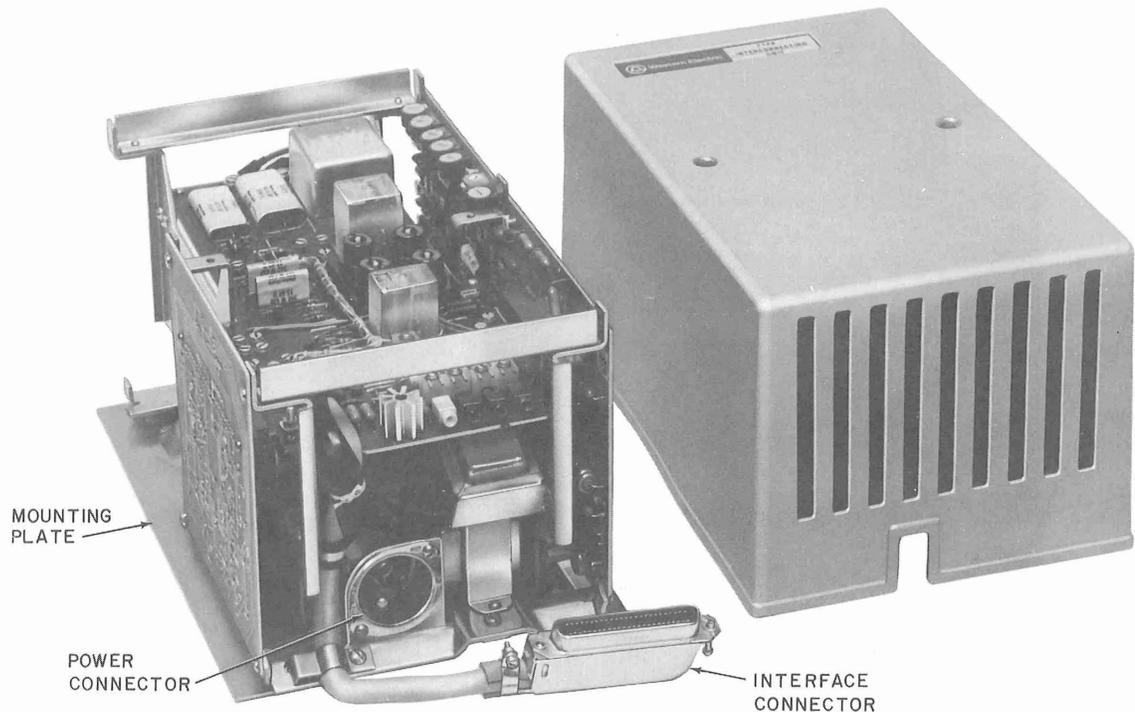


Fig. 6—114A Interconnecting Unit, Cover Removed

to the above modification, the data lamp beneath the DATA key should be removed. For additional information applicable to modification, refer to Section 598-030-100.

DATA SET 303J26, DATA AUXILIARY SET 804A7, DATA AUXILIARY SET 806D1, AND DATA AUXILIARY SET 801C4

A. General

3.29 The information contained in the preceding paragraphs is also applicable when the Data Auxiliary Set 801C4 is provided. The DAS 801C4 provides the wideband data station with the automatic calling capability. For application of the DAS 801C4, refer to Section 593-800-111.

B. Assembly

3.30 The DAS 801C4 is desk-top type apparatus; however, when used in this station arrangement, it should be mounted inside the KS-20018-L4 cabinet. The data auxiliary set should be inserted from the front of the cabinet and placed in the center of

the vacant shelf. The unit is held in place by its own weight.

3.31 A complete description of the automatic calling unit will be found in the description and operation section, 598-012-101. For general installation of DAS 801C4, refer to installation section, 598-012-201.

C. Cabling and Connections

3.32 The automatic calling unit requires three connecting cords:

- D10P-61 mounting cord (factory-furnished)
- KS-14532-L16 power cord (factory-furnished)
- Business machine and DAS 801C4 interface cord (customer-provided).

The interface cord must be equipped with a plug to match the KS-19087-L6 connector located on the rear of the automatic calling unit. The maximum length of the interface cord shall not exceed 50 feet.

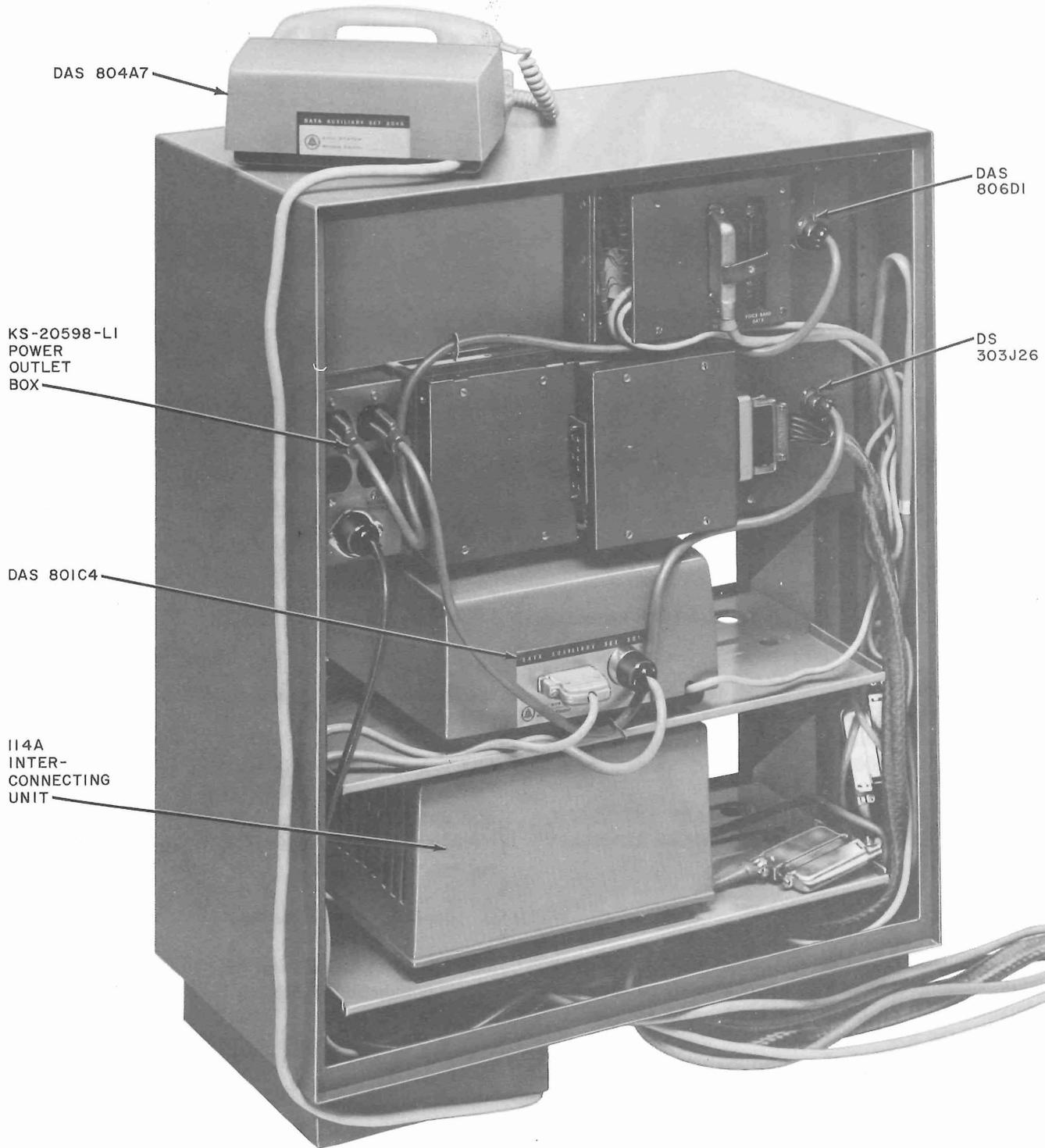


Fig. 7—Wideband Data Station Cabling Arrangement

TABLE D
CONNECTIONS BETWEEN DATA AUXILIARY SET 806D1 AND DATA SET 303J26

| DATA SET 303J26 | COLOR | DESIGNATIONS | DATA AUXILIARY SET 806D1 |
|-----------------|-------|--------------|--------------------------|
| TB2 TERMINAL | | | TB1 TERMINAL |
| 2 | BL | T* | 4 |
| 3 | W | R* | 3 |
| 6 | O-W | T1* | 2 |
| 7 | O | R1* | 1 |
| 14 | BK | SHIELD | 16 |
| 15 | Y | LST | 5 |
| 16 | W | RT2A | 7 |
| 19 | S-W | DTR | 15 |
| 20 | BK-S | RI | 17 |
| 21 | GR | LL | 57 |
| 22 | BL | VCC | 55 |
| 25 | R | RTN | 6 |
| 26 | V | GRD | 18 |
| 27 | BR | LTC | 9 |
| 28 | S | LS | 8 |
| 30 | O | LTA | 11 |

* These leads are paired T and R, T1 and R1.

3.33 The factory-provided D10P-61 mounting cord is equipped with spade tips for connection at the DAS 806D1 end. The other end is factory-terminated on TB2 in the DAS 801C4. Refer to Table L and Fig. 11 and 12 and make connections as required.

3.34 When the wideband data station is arranged as a single line station, certain locally provided connections are required between DAS 801C4 and the 114A Interconnecting Unit. Refer to Table M and make connections as required.

3.35 Telephone line connections are required at the DAS 801C4 for either wideband data station arrangement. When the wideband data station is used in a single line station arrangement, connections are made directly to the incoming 2-wire TOUCH-TONE tip and ring leads. When the wideband data station is used in a key telephone

system arrangement, telephone line connections are made to the 1P2 key telephone system. Telephone line connections should be provided as required in accordance with Table N.

3.36 The factory-provided KS-14532-L16 power cord is equipped with a Twist-lock plug for power connections at the rear panel of DAS 801C4. The other end of KS-14532-L16 power cord is equipped with a plug for terminating at the outlet box adjacent to DS 303.

D. Options

3.37 Certain options must be installed in the DAS 801C4. Refer to Table O for options that must be added or removed. For information on the installation of options, refer to Section 598-012-201.

TABLE E
CABLE 840286454 CONNECTIONS BETWEEN DATA AUXILIARY SET
806D1 AND 114A INTERCONNECTING UNIT

| CONNECT AT DATA AUXILIARY SET 806D1 | | | PLUG END OF CABLE MATES WITH 114A INTERCONNECTING UNIT | |
|-------------------------------------|-------------|-------|--|-------------|
| TB1 | | | | |
| TERMINAL | DESIGNATION | COLOR | PIN NUMBER | DESIGNATION |
| 49 | GRD | R-BL | 30 | COM4 |
| 49 | GRD | BL-R | 28 | COM3 |
| 49 | GRD | W-GR | 5 | COM2 |
| 49 | GRD | GR-W | 3 | COM1 |
| 63 | See Note | BR-W | 6 | CPF |
| 66 | T | BL-W | 1 | CVOT |
| 67 | R | W-BL | 26 | CVOR |
| 68 | T1 | O-W | 2 | CVIT |
| 69 | R1 | W-O | 27 | CVIR |
| 55 | VCC | S-W | 8 | VCC |

Note: Craft employee should provide a connection at DAS 806D1, TB1 between terminals 58 and 63.

TABLE F
TELEPHONE LINE CONNECTIONS FROM DATA AUXILIARY SET 806D1

| CONNECT DAS 806D1, TB1 | | | TO 1P2 KEY TELEPHONE SYSTEM | OR | TO INCOMING 2- WIRE TOUCH- TONE LINES |
|------------------------|------------------|--------------|--------------------------------------|----|--|
| FUNCTION | TERMINAL | DESIGNATION | | | |
| Voice Line | 61 | T3 | T | | T |
| Voice Line | 62 | R3 | R | | R |
| Control | 50 (See Note) | ACU DATA IND | A | | — |
| Control | 51 (See Note) | ACU TALK IND | — | | — |

Note: Craft employee should provide a connection at DAS 806D1, TB1 between terminals 50, 51, and 56.

TABLE G

LOCALLY PROVIDED CONNECTIONS BETWEEN DATA AUXILIARY SET 806D1
AND 114A INTERCONNECTING UNIT (FOR SINGLE-LINE ARRANGEMENT)

| CONNECTIONS AT DATA AUXILIARY SET 806D1 | | CONNECTIONS AT 114A INTERCONNECTING UNIT |
|--|-------------|---|
| TB1 | | TERMINALS |
| TERMINAL | DESIGNATION | |
| 50* | AG | AG |
| 61 | T3 | T |
| 62 | R3 | R |

* Craft employee should provide a connection at DAS 806D1, TB1 between terminals 50, 51, and 56.

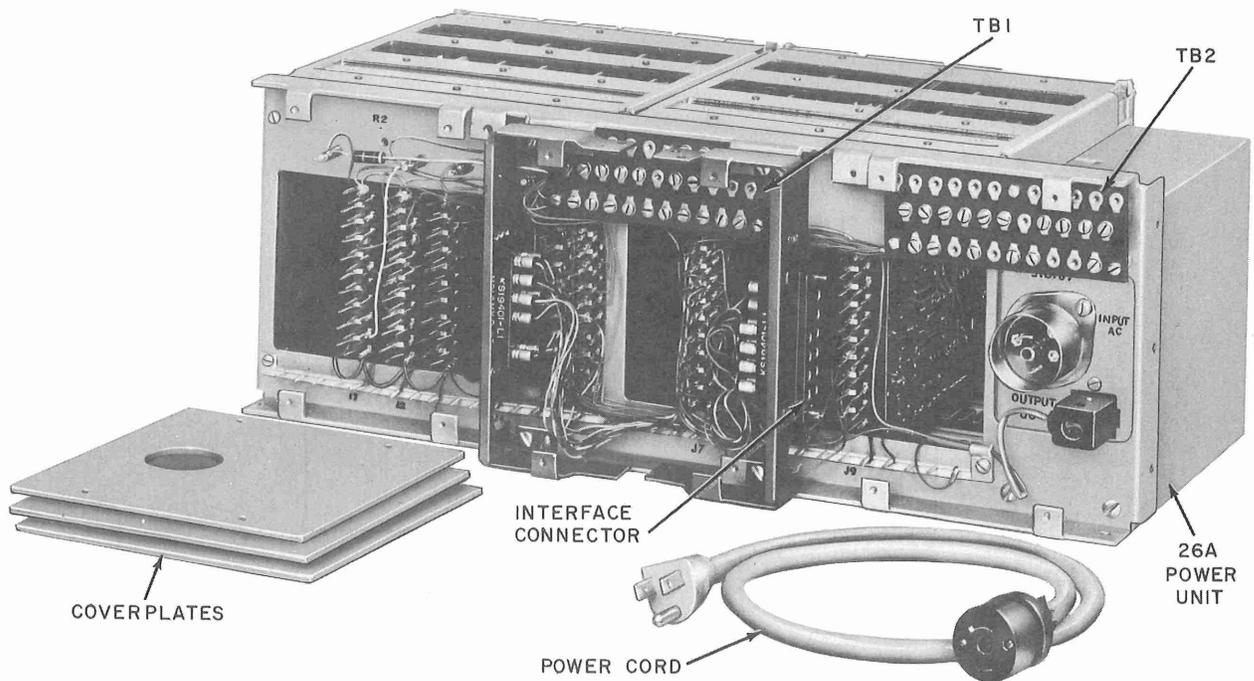


Fig. 8—Data Set 303J26—Rear View Showing Power Supply, Connector, and Terminal Blocks

TABLE H
OPTIONS APPLICABLE TO DATA SET 303J26

| WIRING OPTIONS | FEATURES | TERMINAL BLOCK CONNECTIONS | |
|-----------------|----------------------------|----------------------------|----------|
| | | TB1 | TB2 |
| Z (See Note 1.) | Internal Transmitter Clock | — | 10 to 11 |
| J (See Note 1.) | Sync Logic Normal | 4 to 13 | — |
| Q (See Note 2.) | Free-Running Scrambler | 17 to 19 | — |

Note 1: This option is factory-provided.

Note 2: The Q option must be provided by the craft employee. Also the craft employee must remove the M option strap on TB1 between terminals 16 and 19.

TABLE I
STRAPPING REQUIRED ON CIRCUIT PACK AR361

| CONNECT | | |
|----------|----|----------|
| TERMINAL | TO | TERMINAL |
| E1 | | F1 |
| E2 | | F2 |
| B1 | | C1 |
| B2 | | C2 |

TABLE J
OPTIONS APPLICABLE TO DATA AUXILIARY SET 806D1

| OPTION REQUIRED (See Notes 1 and 2) | FUNCTION | FACTORY- PROVIDED | STRAPPING REQUIRED ON TB1 | |
|--|--|----------------------|--|----------------------------------|
| | | | 10A3 DATA UNIT | 32A1 DATA UNIT |
| B | Wideband line circuit through test relay contacts | Yes | 22 to 23 25 to 26 28 to 29 31 to 32 | — |
| J | Answer-back tone and data path continuity | Yes | — | 13 to 14 30 to 31 31 to 32 |
| S | DTR from customer data terminal | Yes | — | 28 to 29 |
| W | Voice circuit, 2-wire | No | 2 to 3 5 to 6 | — |
| X | 0-dB transmit line pad | Yes | — | — |
| ZA | Drive for WB CHAN lamp | No | — | 45 to 46 |
| ZB | ACU TALK IND from DAS 804A7 | No | — | 52 to 53 |
| ZC | Simultaneous WB DATA/TALK feature | See Note 3. | — | — |
| ZE | Termination for voice line when voiceband data set not provided | See Note 4. | — | — |

Note 1: At DAS 806D1, TB1, a connection is required between terminals 58 and 63.

Note 2: When DAS 801C4 is not provided, strap terminal 50 to 51 to 56 on TB1 of the DAS 806D1.

Note 3: Remove circuit pack CS4 and strap terminal 18 to 19.

Note 4: Remove circuit pack CS4 and strap terminals 10 to 11 and 12 to 13.

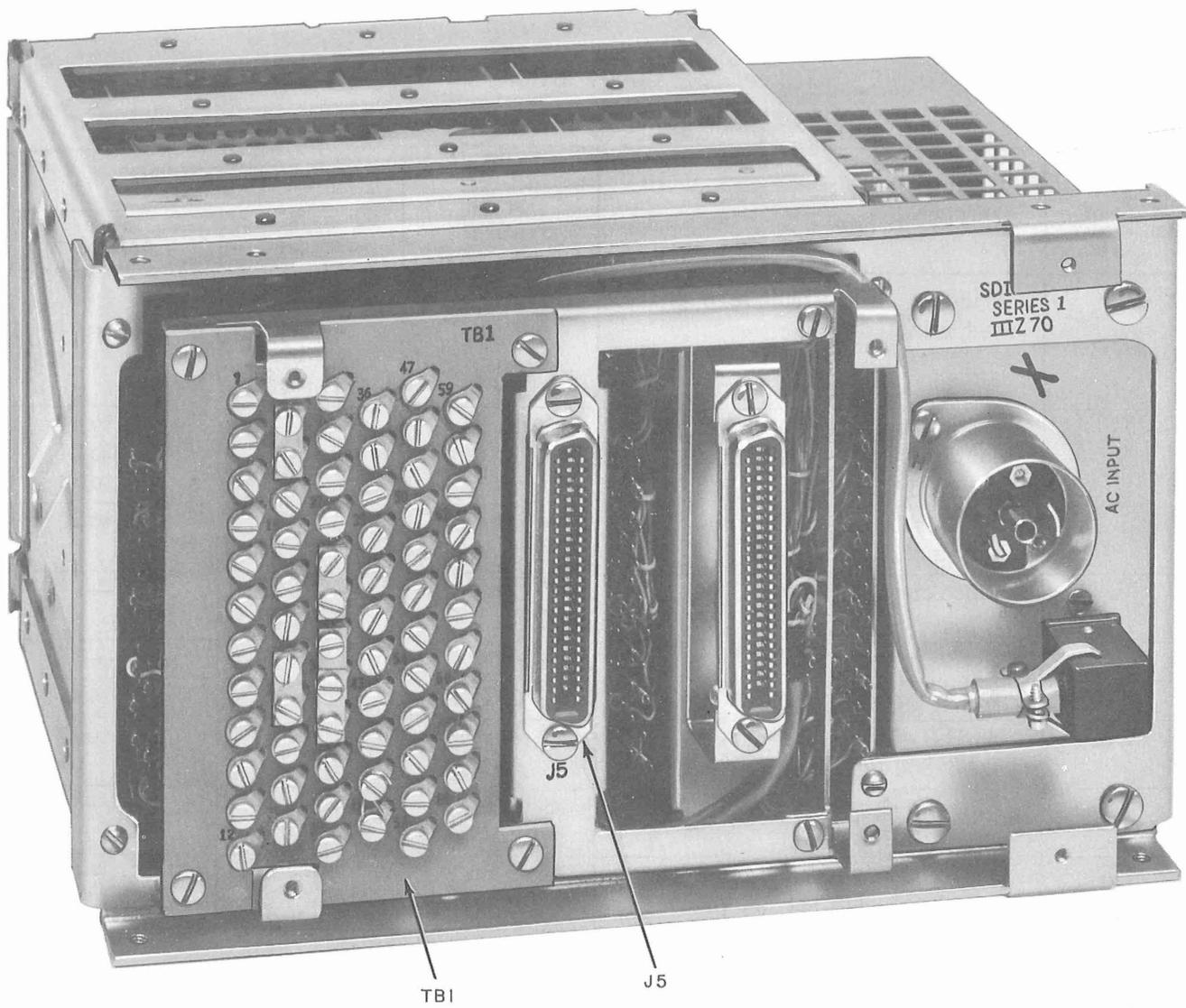


Fig. 9—Data Auxiliary Set 806D1—Rear View

TABLE K
OPTIONS APPLICABLE TO DATA AUXILIARY SET 804A7

| OPTION REQUIRED | FUNCTION | FACTORY- PROVIDED |
|--------------------|------------------------|----------------------|
| B | Contact interface | Yes |
| F | Talk light | No |
| G | Automatic answer | No |
| H | Balanced pair | No |
| J | Fixed 2-wire | Yes |
| Q | Ring on transmit pair | Yes |
| W | 900-ohm line impedance | Yes |
| X | -12 dB Answer tone | Yes |
| ZA | +18 Volt | Yes |
| ZD | 11G Apparatus unit | Yes |
| ZM* | No Data Set 203 | Yes |

* When DAS 804A3 is provided, the ZM option is not applicable since the ZM option is not provided for in DAS 804A3.

| LABEL | | TST | AUTO | WB CHAN | TALK | DATA |
|-------|--|---------|---------|------------|---------|-----------------|
| KEYS | | LOCKING | LOCKING | BLOCKED | LOCKING | NON- LOCKING |

Fig. 10—Data Auxiliary Set 804A7 Designation Strip

TABLE L
CONNECTIONS OF D10P-61 MOUNTING CORD
BETWEEN DAS 806D1 AND DAS 801C4 (See Note 1.)

| CONNECTIONS AT DAS 806D1 | | | CONNECTIONS AT DAS 801C4 | |
|--------------------------|---------------|-------|--------------------------|--------------------|
| TB1 | | | TB2 | |
| TERMINAL | DESIGNATION | COLOR | DESIGNATION | TERMINAL |
| 47 | CO TIP | W-BR | D1 | D1 |
| 48 | ACU DATA MODE | W-S | D2 | D2 |
| 49 | GRD | O-W | G | G (See Note 2.) |
| 50 | ACU DATA IND | BR-W | C | C |
| 51 | ACU TALK IND | W-O | TK | TK |
| 61 | T3 | W-G | DT | DT |
| 62 | R3 | G-W | DR | DR |
| 56 | DTO | S-W | SH1 | SH1 |

Note 1: Remove the T and R leads of the D10P cord connected on the TB2 terminal board of DAS 801C4 and tape and store these leads. Remove the W-S lead from terminal SH2 and reconnect it to D2 on the TB2 terminal board. (D10P cord is factory-furnished with DAS 801C4.)

Note 2: At DAS 801C4, the craft employee should strap together terminals G and 2 on TB2.

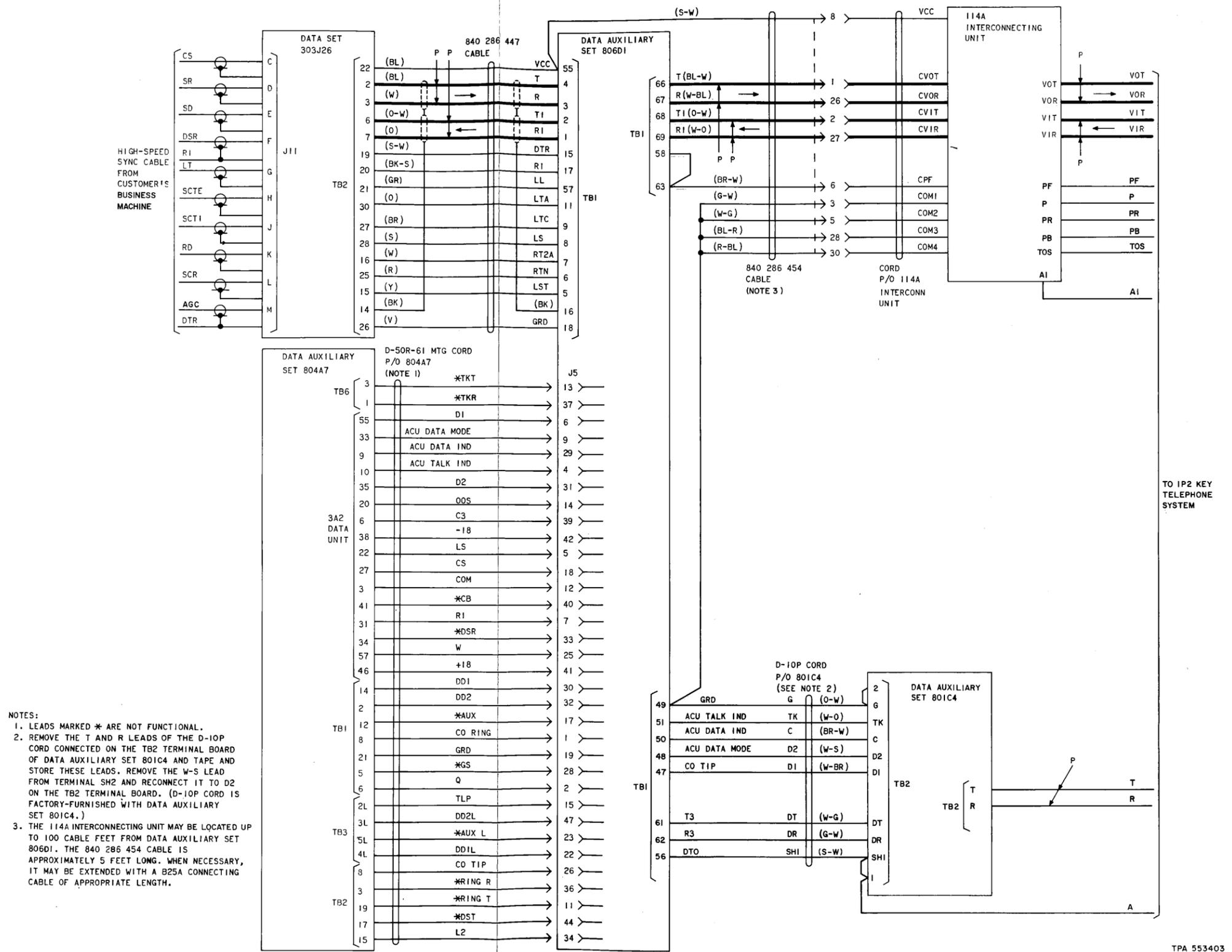


Fig. 11—Key Telephone System Station Arrangement With Optional Automatic Calling Unit Provided

TPA 553403

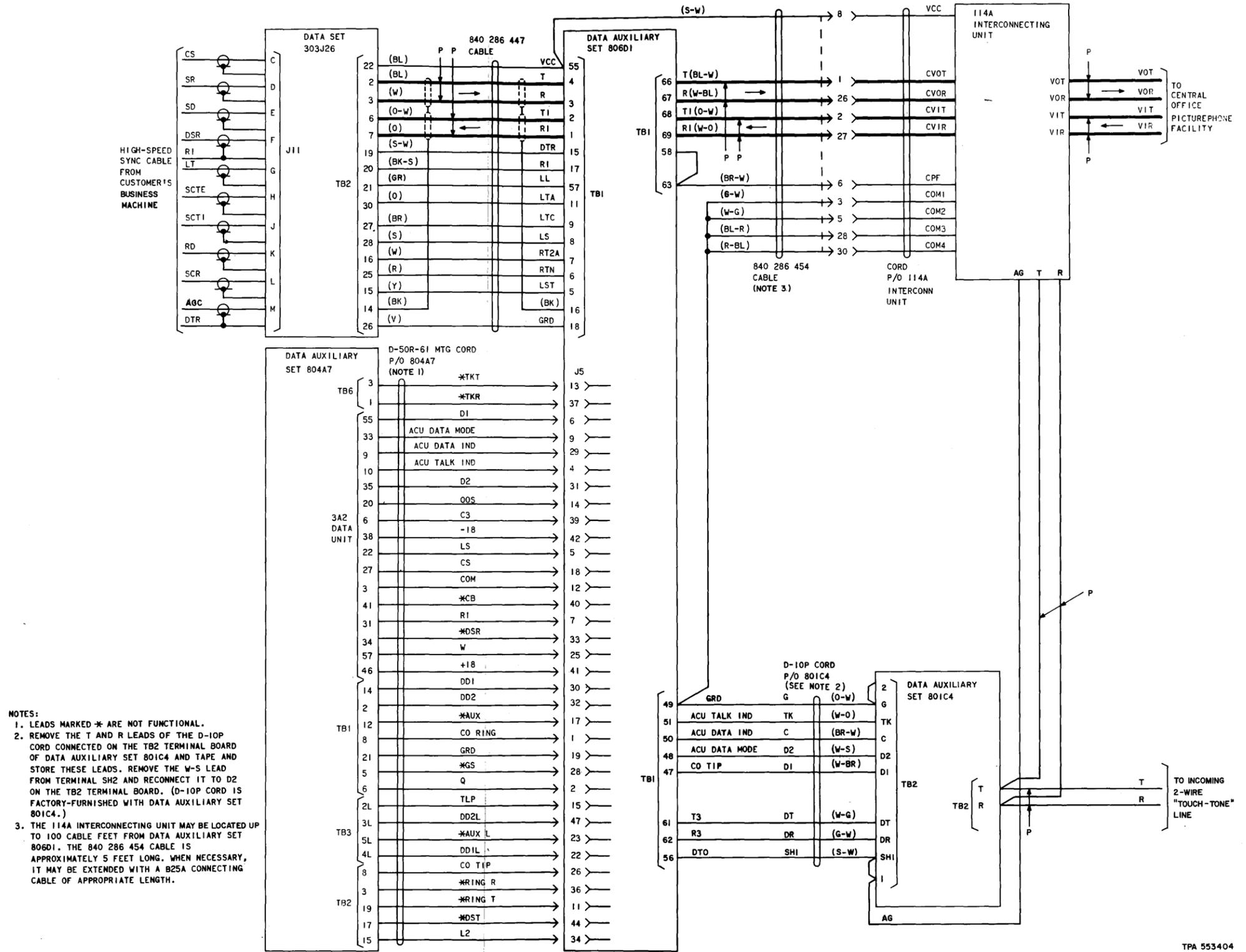


Fig. 12—Single Line Station Arrangement With Optional Automatic Calling Unit Provided

TPA 553404

TABLE M
LOCALLY PROVIDED CONNECTIONS BETWEEN
DATA AUXILIARY SET 801C4 AND 114A
INTERCONNECTING UNIT (FOR SINGLE-LINE
ARRANGEMENT)

| CONNECTIONS AT DATA AUXILIARY SET 801C4 | | CONNECTIONS AT 114A INTERCONNECTING UNIT |
|--|-------------|---|
| TB2 | | TERMINAL |
| TERMINAL | DESIGNATION | |
| SH1 (See Note) | — | — |
| 1 | AG | AG |
| T | T | T |
| R | R | R |

Note: Craft employee should strap together terminal 1 and SH1 at DAS 801C4, TB2.

TABLE N
TELEPHONE LINE CONNECTIONS FROM DAS 801C4 TO THE INCOMING TELEPHONE
LINES OR 1P2 KEY TELEPHONE SYSTEM

| CONNECTIONS AT DAS 801C4, TB2 | | | CONNECTIONS AT 1P2 KEY TELEPHONE SYSTEM (KEY TELEPHONE ARRANGEMENT) | OR | CONNECTIONS AT INCOMING 2-WIRE TOUCH-TONE LINES (SINGLE-LINE ARRANGEMENT) |
|----------------------------------|----------|-------------|---|----|---|
| FUNCTION | TERMINAL | DESIGNATION | | | |
| Voice Line | T | T | T | | T |
| Voice Line | R | R | R | | R |
| Control | SH1 | A | A | | — |

TABLE O
DATA AUXILIARY SET 801C4 OPTIONS

| OPTIONS | | FUNCTION | FACTORY-PROVIDED | |
|---------|--------|--|------------------|----|
| INSTALL | REMOVE | | YES | NO |
| B | | ACU answer detection or end of number | X | |
| F | | Data set to data mode by isolated contact | | X |
| R | | ACR timer stopped when DSS goes ON | X | |
| S | | Detect 2025-Hz answer tone | X | |
| | Q | Data set to data mode by contact to DT | X | |
| W | | Detect end of answer tone | | X |
| | X | Detect beginning of answer tone | X | |
| Y | | Loop start | X | |
| | Z | Terminate call via CRQ signal after DSS ON | X | |
| | ZA | Isolate TK contact | X | |
| ZD | | Terminate call via data set after DSS ON | | X |
| ZH | | 2-Wire | X | |
| ZM | | DLO controlled by ACU | X | |
| M | | D10P cord | X | |
| ZQ | | | See note. | |
| ZB | | Ground TK and CL contacts | | X |

Note: Option ZQ (CP AS64) is provided with DAS 801C4, series 3.