

WIDEBAND DATA STATION USING DATA SET 303-TYPE
TWO-WIRE SWITCHED SERVICE
(DATA-PHONE® 50 SERVICE)
INSTALLATION AND CONNECTIONS

1. GENERAL

1.001 This addendum supplements Issue 1 of Section 593-800-210. The attached pages must be inserted in the section in accordance with the filing instructions above. This addendum supersedes Addendum Issue 1 dated July 1973.

1.002 The purpose of this addendum is as follows:

- (a) To transpose Fig. 13 and 14 and to correct the title of new Fig. 13.
- (b) To change Fig. 7 to show strapping required on DAS 806D1 when a DAS 801C automatic calling unit is *not* used.
- (c) To change the note in Table F to show strapping when a DAS 801C is not used.
- (d) To change Fig. 12 to show square keys and to delete RING designation on first key.

3. COMPONENT INSTALLATION

3.001 The following changes apply to Part 3 of the section:

- (a) Figure 7—revised
- (b) Table F—revised
- (c) Figure 12—revised.

5. AUTOMATIC CALLING CAPABILITY

5.001 The following changes apply to Part 5 of the section:

- (a) Figure 13—revised
- (b) Figure 14—revised.

Attached:

Page 13/14 dated August 1974, revised
Page 19 dated August 1974, reissued
Page 20 dated August 1974, revised
Page 21 dated August 1974, reissued
Page 22 dated August 1974, revised
Page 27 dated August 1974, revised
Page 28 dated August 1974, revised

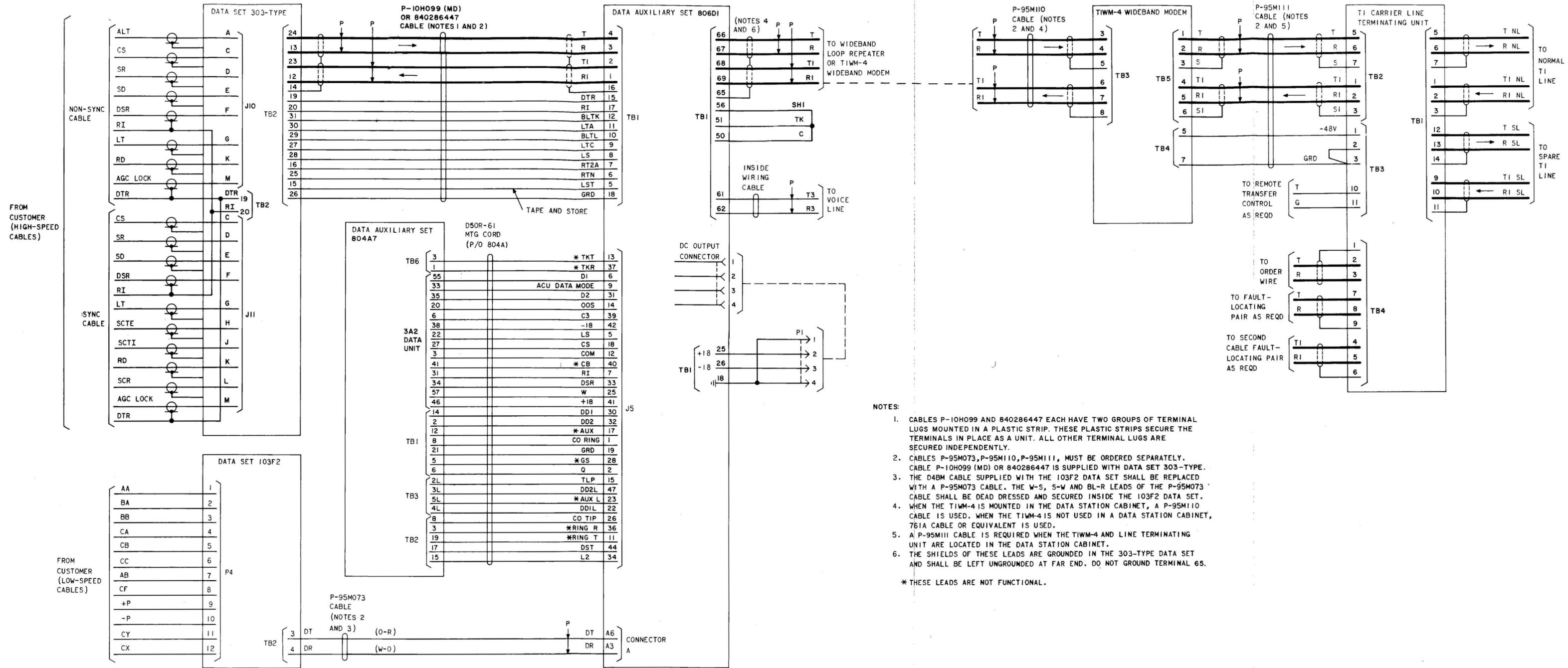


Fig. 7—Connection Diagram—Wideband Data Station Using DAS 806D1

TABLE D
OPTIONS FOR DAS 806B7

WIRING OPTIONS	FEATURES	CONNECTIONS	
		DAS 806B7 (Note)	10A-TYPE DATA UNIT
		TB1	TB1
W	2-Wire voiceband circuit	—	2-3 5-6 8-9 11-12
X	Wideband 0-dB transmit line pad	Factory-installed	
S*	Data terminal ready signal provided by customer data terminal	28-29	—
J*	Completes the voice-frequency data path in DAS 804A	13-14 30-31-32	—

Note: See Fig. 10 for location of option terminal boards on DAS 806B7.

* Factory-installed.

TABLE E
TELEPHONE LINE CONNECTIONS FOR DAS 806B7

FUNCTIONS	DESIGNATION	REMARKS	CONNECTIONS	
			TB2	TB3
WB TRMTG LINE	T	Shielded leads will be used on all data input and output levels. Lead dress of the shielded pair will not exceed one inch after termination at terminal. Cable will be 761A-type or equivalent. Ground shield at DS 303-type end only. Leave ungrounded at the far end. Do not ground terminal 5 of TB3 on DAS 806B7.	—	1
	R		—	2
WB RECVG LINE	T1		—	3
	R1		—	4
VOICE LINE	T3	—	3	—
	R3	—	4	—

TABLE F
OPTIONS FOR DAS 806D1

WIRING OPTIONS		FEATURES	CONNECTIONS DAS 806D1		
			32A DATA UNIT	10A3 DATA UNIT	CP CS4
			TB1	TB1	
B*		Routes path of wideband line circuit in 10A3 DU through test relay contacts. Used when 32A DU is part of DAS 806D1.	—	22-23, 25-26, 28-29, 31-32	—
W		2-Wire voiceband circuit	—	2-3, 5-6 8-9, 11-12	—
X*		0-dB Wideband transmit line pad	—	"Plug-in" Pad	—
S*		Data terminal ready signal provided by customer data terminal.	28-29	—	—
J*		Completes the voice-frequency data path in DAS 804A.	13-14, 30-31-32	—	—
ZA		Provides drive for WB CHAN lamp. Used when 32A1 DU is part of DAS 806D1.	45-46	—	—
ZB		Provides ACU TLK IND from DAS 804A-type. Used when DAS 804A-type is provided.	52-53	—	—
One Per Station	ZC†	Simultaneous wideband data/talk operation when 32A1 DU is used in DAS 806D1. Synchronous service with DS 303.	—	—	18-19
	ZD†	Simultaneous wideband data/talk operation when 32A1 DU is used in DAS 806D1. Under control of alternate-use signal to DS 303.	—	—	18-20
	ZE‡	Termination for voice line when no voiceband data set is provided.	—	—	10-11, 12-13

Note: See Fig. 11 for location of option terminal boards on DAS 806D1.

* Factory-installed.

†Neither the ZC nor the ZD option should be provided when the simultaneous wideband data/talk capability is not required as is the case when a voiceband data set is provided. Option ZC should be used when the simultaneous wideband data/talk capability is required as a permanent arrangement. Option ZD should be used when control of this capability is from the alternate-use (ALT) signal to DS 303. ◆In addition, where Option ZC or ZD is used and an 801-type ACU is not provided, strap terminals 50, 51, and 56 on TB1 in DAS 806D1.◆

‡ Do not install the ZE option when DS 103 is provided.

TABLE G
TELEPHONE LINE CONNECTIONS FOR DAS 806D1

FUNCTIONS	DESIGNATION	REMARKS	CONNECTIONS
			TB1
WB TRMTG LINE	T	Shielded leads will be used on all data input and output leads. Lead dress of the shielded pair will not exceed one inch after termination at terminal.	66
	R		67
WB RECVG LINE	T1	Cable will be 761A-type or equivalent. Ground shield at DS 303-type end only. Leave ungrounded at the far end. Do not ground terminal 65 of TB1 on DAS 806D1.	68
	R1		69
VOICE LINE	T3	—	61
	R3	—	62

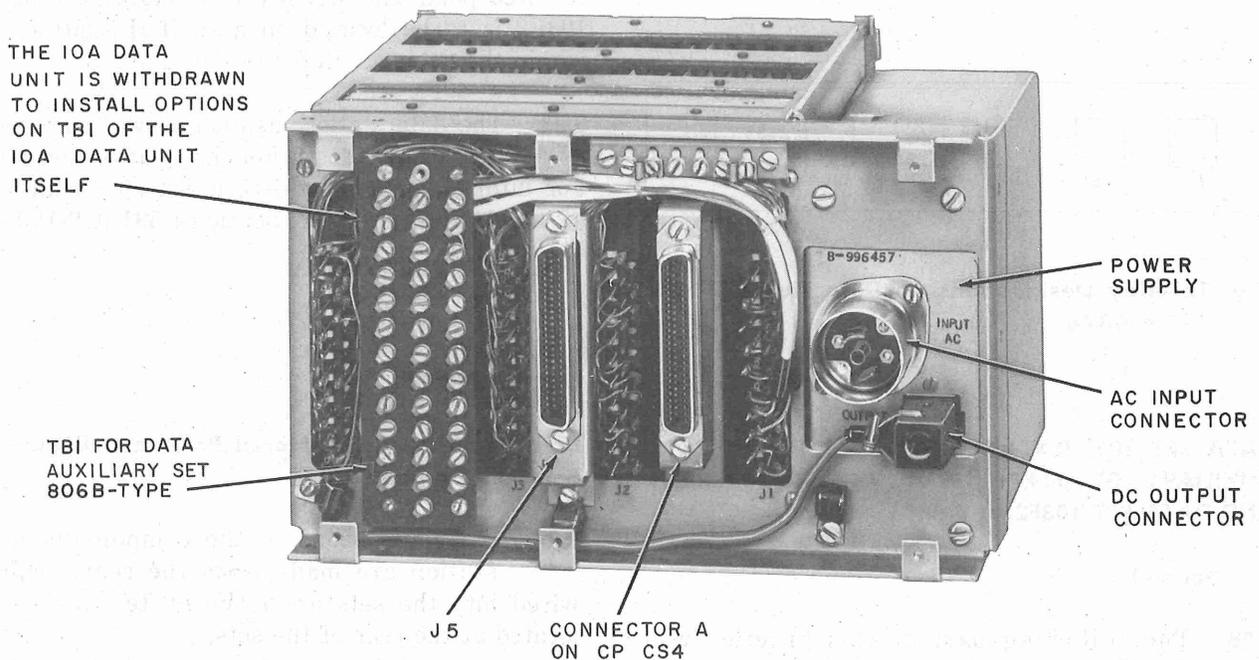


Fig. 10—Option Board on Data Auxiliary Set 806B7

12. The physical appearance is changed by the addition of decals on the press-fit, plastic key number strip. To place or replace the decal, pry plastic key strip from the edge slightly and lift over keys. Remove decal, substitute information shown in Fig. 12, and then replace.

3.27 The key marked WB CHAN should be blocked by inserting blocking ring P-12A858. The TEST and AUTO keys should be made locking by installing a P-10E837 screw. For additional information concerning DAS 804A7, refer to Section 598-030-100.

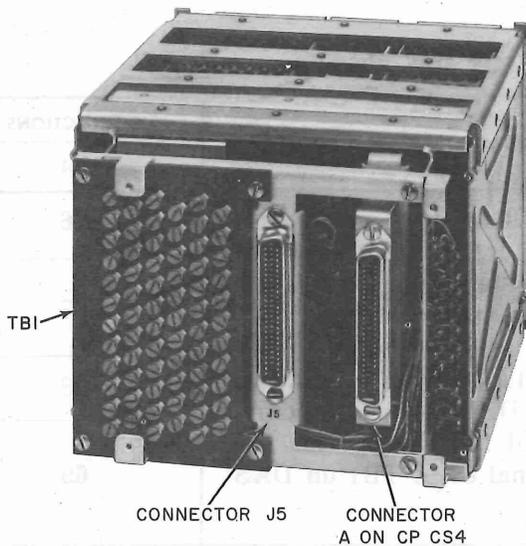


Fig. 11—Option Board on Data Auxiliary Set 806D1 (32A1 Data Unit)

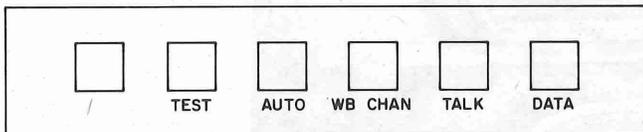


Fig. 12—Key Designations on Data Auxiliary Set 804A7

DATA SET 303, DATA AUXILIARY SET 806, DATA AUXILIARY SET 804A7 (T1WM-4 MODEM AND LTU), AND DATA SET 103F2

A. General

3.28 The following part of this practice will describe the installation of Data Set 303-type with either restored polar line signal or dc-coupled balanced line signal, DAS 806, DAS 804A7, and Data Set 103F2. This arrangement adds low-speed data capability to the wideband (50-kilobit) data station. Refer to Section 593-800-110 for requirements and restrictions. In some installations, a T1WM-4 modem and an LTU may be required. The installation of this equipment will be covered in later parts of this practice. Figures 2 and 5 show a complete data station.

B. Installation

3.29 The installation of DS 303-type, either restored polar or dc-coupled balanced line signal type, is covered in 3.09 and 3.10. There are no changes to this basic installation arrangement.

3.30 The DAS 806 will be installed in the same manner as described in 3.10.

3.31 The DAS 804A7 is desk-top type apparatus and requires no exceptional mounting arrangements. It must, however, be placed in a convenient location within 75 cable feet of the associated DAS 806. Refer to Fig. 1.

3.32 Data Set 103F2 is a desk-top type apparatus. It may be placed either on top or within the associated wideband data cabinet or at any other convenient location within the limits of the cable supplied. If vertical mounting is desired, use a 180A backboard. When the data station employs restored polar line signal type apparatus, Data Set 103F2 is to be located on a shelf (KS-20130-L5B) within the cabinet. Refer to Fig. 2 and 3.

3.33 The data station installation will conform to the standard station installation practices. For information on the description and installation of DS 103F2, refer to Sections 591-019-100 and 591-019-200.

C. Connections

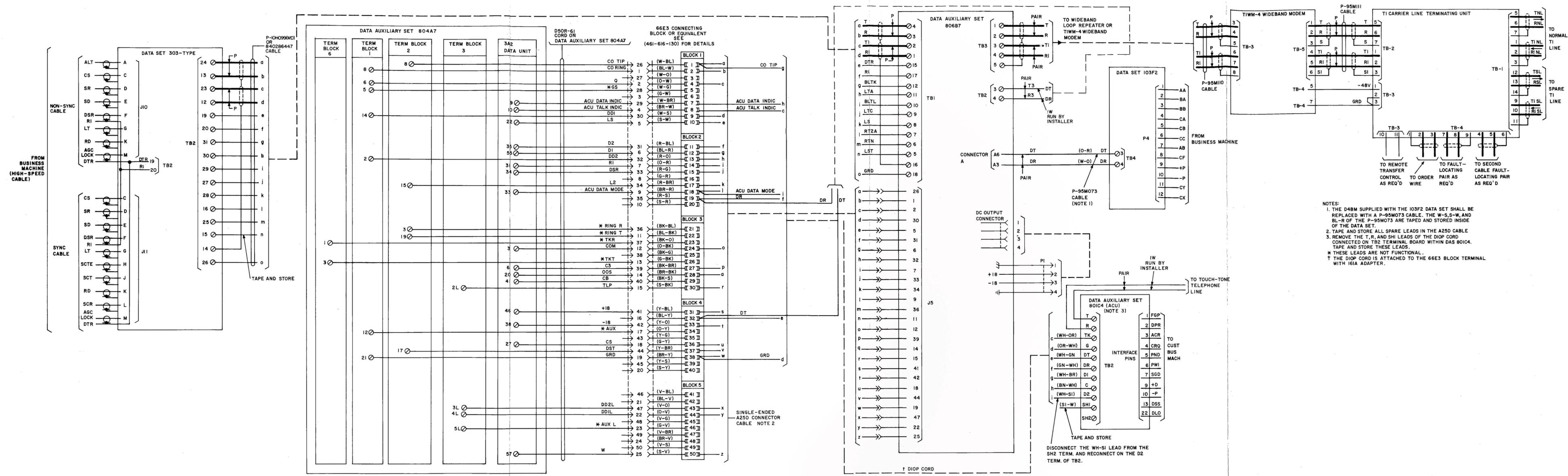
Data Set 303-Type Restored Polar and DC-Coupled Balanced Line Signals

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

3.35 The cabling and options in 3.14 through 3.17 of this practice will be used for DS 303-type, either restored polar or dc-coupled balanced line signal codes.

Data Auxiliary Set 806B7 or 806D1

3.36 The same restrictions and qualifications apply to DAS 806B7 and/or DAS 806D1 here as described in 3.18.



- NOTES:
1. THE D48M SUPPLIED WITH THE I03F2 DATA SET SHALL BE REPLACED WITH A P-95M073 CABLE. THE W-S, S-W, AND BL-R OF THE P-95M073 ARE TAPED AND STORED INSIDE OF THE DATA SET.
 2. TAPE AND STORE ALL SPARE LEADS IN THE A255 CABLE.
 3. REMOVE THE T, R, AND SH1 LEADS OF THE DIOP CORD CONNECTED ON TB2 TERMINAL BOARD WITHIN DAS 801C4. TAPE AND STORE THESE LEADS.
- * THESE LEADS ARE NOT FUNCTIONAL.
 † THE DIOP CORD IS ATTACHED TO THE 66E3 BLOCK TERMINAL WITH IG1A ADAPTER.

Fig. 13—Connection Diagram—Wideband Data Station (With DAS 806B7 and ACU)

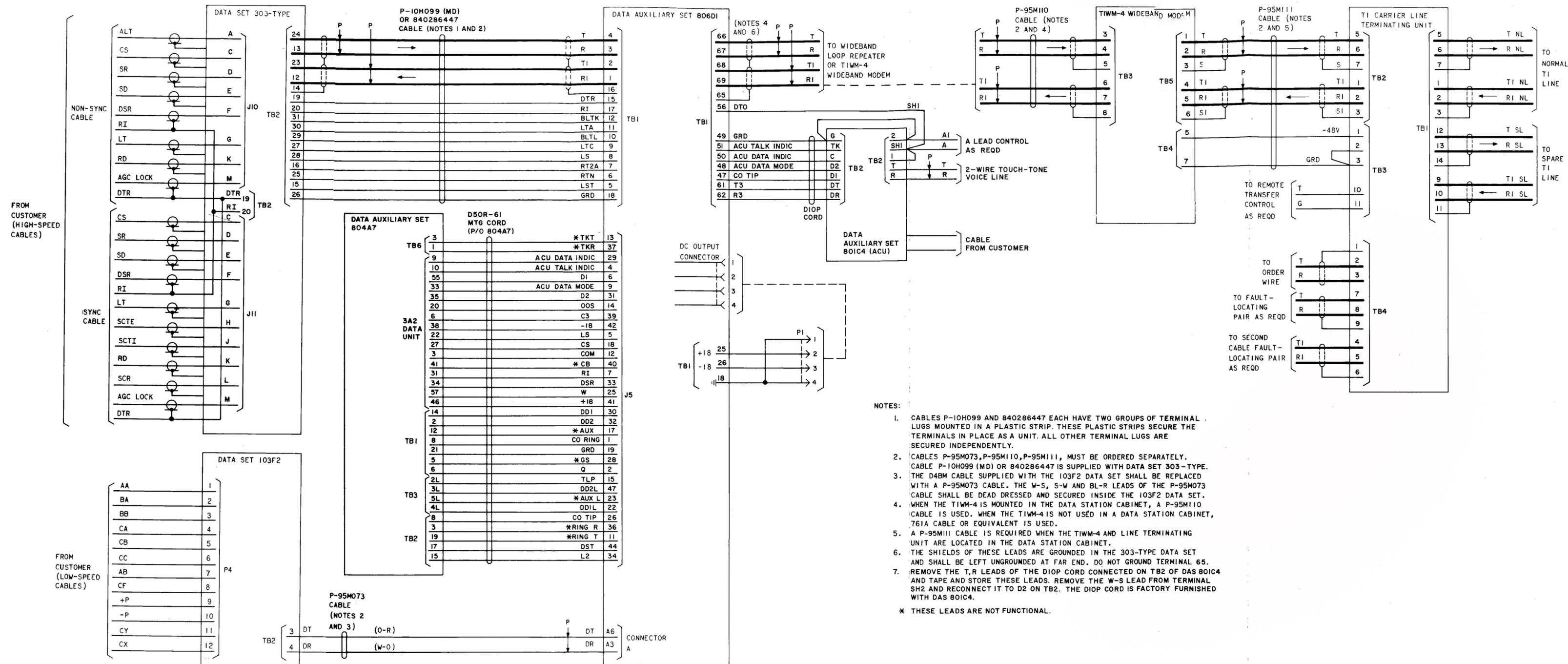


Fig. 14—Connection Diagram—Wideband Data Station (With DAS 806D1 and ACU)