

## DATA AUXILIARY SET 801C LIST-TYPE INSTALLATION AND CONNECTIONS

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### 1. GENERAL

**1.01** This section contains information needed to install options and to install and connect a data auxiliary set (DAS) 801C list-type in a single housing. For multiple installations, refer to Section 590-010-202.

**1.02** This section is reissued to provide correct option information, to add connection drawings formerly contained in an appendix, to add connection information for the M15H cord, and to add information on lists 2A, 3, and 4.

**1.03** DASs 801C-L1/2A are used to provide automatic calling capabilities for a data station. These sets are referred to in this section as ACUs (automatic calling units).

◆**Note:** List 3 provides an M13G cord. List 4 provides an M15H cord. DAS 801C-L1/2A is not an orderable code.◆

**1.04** This section does not include specific installation methods or information on associated data sets. Refer to the installation BSP of the associated data set for this information. Any additional information required due to differences between

this ACU and earlier models is contained in this section.

**1.05** Before starting installation, verify that the telephone (data) line is arranged for Touch-Tone® service. If a ground-start line is required, verify that the line to be used has been arranged for ground-start operation.

**1.06** When a ground-start telephone line is used and a power failure has occurred, a momentary ground must be applied to the telephone (data) line when initiating a call. The ground is applied by depressing the button labeled DIAL TONE on the associated data set, telephone set, or data auxiliary set (when provided). Consult the applicable data set BSP to verify that the necessary momentary ground option is provided.

**Note:** Ground-start ACUs are not compatible with central offices with step-by-step common control or step-by-step arranged for Touch-Tone service. If ground-start ACUs are used in these locations, incomplete dialing may result. In these situations, remote exchange loops or loop-start ACUs are recommended.

**1.07** Verify that overall facilities have been tested and meet the transmission requirements specified in Section 314-205-501. Loops engineered to the normal limits required by the associated data set are adequate for proper operation of the ACU.

### 2. TOOLS AND APPARATUS

**2.01** Special items which may be required to install an ACU are listed as follows:

- Long screwdriver (6-inch) to operate screw switch that controls the grounding option
- 193A backboard

### NOTICE

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Bell System except under written agreement

- 107A loudspeaker (if required).

2.02 Special items which may be required to install a DAS 801C-L1/2 or -L1/2A/3 are listed as follows:

- 161A adapters to connect the spade-ended M13G cord to quick-connect terminals on the 66E3 connector block (data set 201A, 201B, or 201 list-type)
- 1044A connector blocks (data set 103A2, 202C, 402C, or 1001F data coupler)
- 149B adapter block (data set 201C, 202S-L1/2, or 208B).

### 3. HOUSING REMOVAL AND REPLACEMENT

3.01 The procedure for removing the circuit pack from the housing is as follows:

- (1) To remove the front cover, gently depress it at the top to disengage the top hooks. Then rotate the cover down and out of the housing.
- (2) Remove the DAS from the housing by gently pulling out on the handle on the faceplate.

3.02 To access the option switches, it is necessary to remove the CM1 circuit module. This can be done by removing the four retaining screws and folding back CM1, which will remain attached by the two flexible tapes. Figure 1 shows the DAS completely unfolded.

3.03 To remove the backplane from the housing, proceed as follows:

- (1) To remove the rear cover, gently depress it at the top to disengage the top hooks. Then rotate the cover down and out of the housing.
- (2) Remove the two retaining screws located under the rear of the housing.
- (3) Slide the backplane assembly out of the housing.

3.04 To reassemble the DAS, proceed as follows.

- (1) Slide the backplane into the housing and install the two retaining screws.
- (2) Replace the rear cover.
- (3) Fold CM1 into place and attach it by using the four retaining screws.
- (4) Slide the DAS into the housing.
- (5) Replace the front cover.

### 4. OPTIONS

4.01 The ACU is provided with options which must be installed prior to placing it in service. The options to be installed should be specified on the service order.

4.02 Installer options are accomplished by setting the positions of individual switches on four multiple-section assemblies, as well as two jumper plugs. These options are set in accordance with Table A. Refer to Fig. 2 for a detailed view of the multiple section assembly.

4.03 The following is a description of the options available with the ACU and recommendations for use:

(a) **Ground Start or Loop Start:** Loop start (option Y) is the preferred operating method, as it does not require any special circuits at the central office (CO). It is always recommended on lines which are used for originating traffic only (or which receive few incoming calls). Loop start is required if the second dial tone detection feature is to be used. At locations with heavy incoming traffic, ground start (option V) may be of advantage. However, some central offices such as step-by-step common control or step-by-step arranged for Touch-Tone service may return the tip-ground indication prematurely during peak traffic loads, causing the ACU to dial before a register has been connected. This results in incomplete dialing as one or more initial digits are lost.

(b) **Detect Beginning or End of Answer Tone:** Upon receipt of a valid answer tone, the ACU transfers the line to the data set and places the data set in the data mode. To allow for the characteristics of various data sets, the answer tone detector can be arranged to transfer

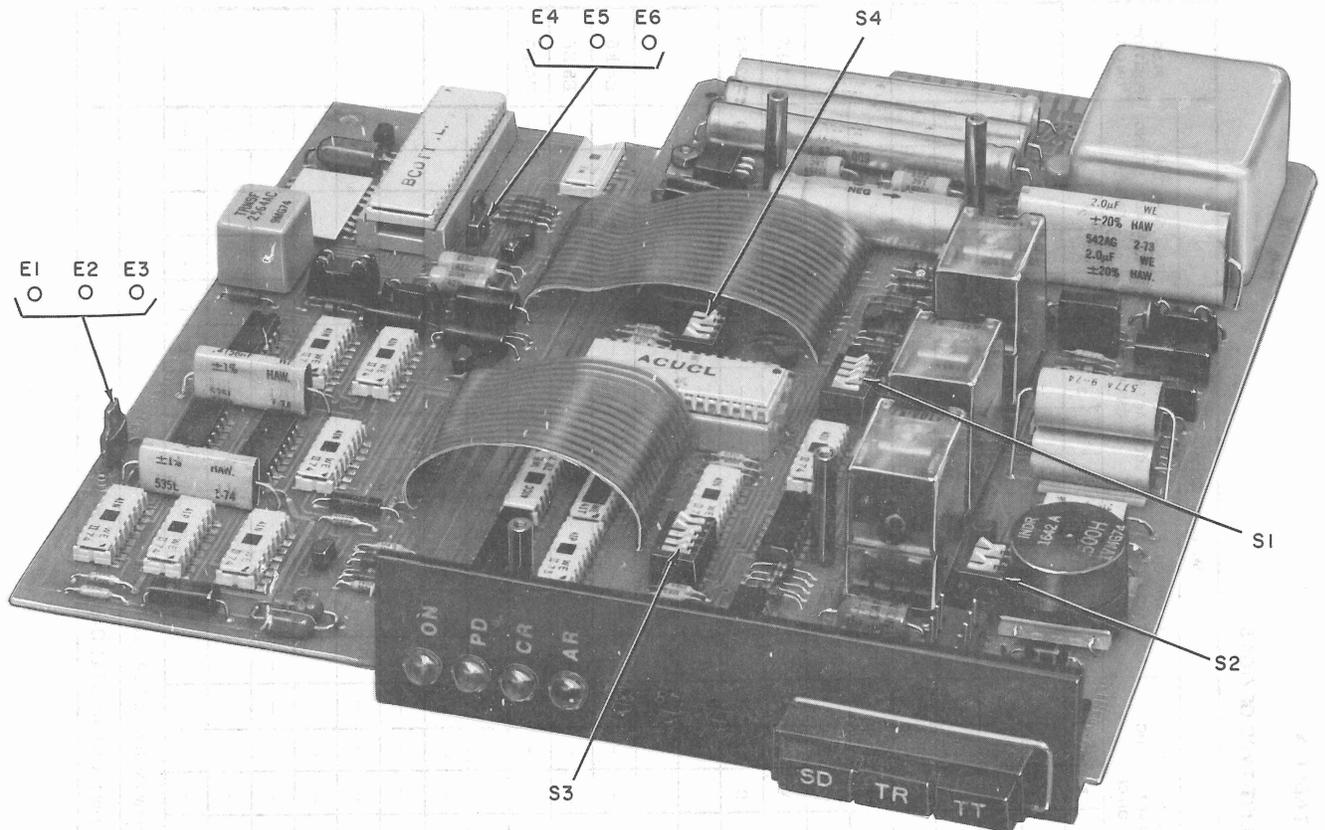


Fig. 1—DAS 801C-L1 Unfolded for Access to Option Switches

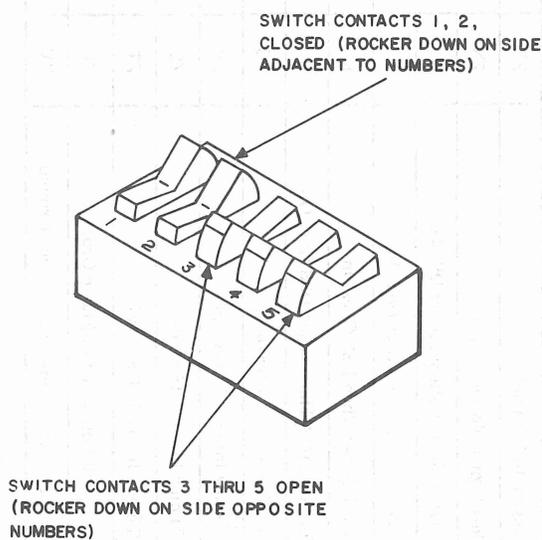


Fig. 2—Details of Option Switch

the line to the data set at the beginning (option X) or at the end (option W) of answer tone. ♦Option X is for use with data sets 103A, 103J, and 212A. Option W is for use with data sets 200-type (except 212A), 400-type, and 600-type.♦

(c) **Detect 2025- or 2225-Hz Answer Tone:** Option S causes the answer tone detector to respond only to 2025-Hz answer tone. This option is to be used with data sets 200-type ♦(except 212A)♦, 400-type, and 600-type. Option T causes the answer tone detector to respond to 2225-Hz answer tone. This option is to be used with data sets 103A, ♦103J, 113C, and 212A.♦

(d) **Data Set or ACU Answer Detection:** Option E (data set answer detection without end of number) provides for certain data sets to perform answer detection without the necessity of the CPE presenting an end-of-number (EON) code. ♦Option E is used for data sets 103A3,



E, G, and H, unless second dial-tone detection is required. Option B (ACU answer detection or end of number) must be used for second dial-tone detection for the above sets and in all other cases.◀

(e) **Data Set to Data Mode by Contact to DT or by Grounded Contact:**

Option Q connects one side of the AN (answer) relay contact to the DT (data tip lead). Option Q should be specified for data sets 103A2, 202C, 201A, 201B, 201 list-type, and 402C. Option ZG provides a grounded AN relay contact and should be specified for data sets 103A-type (except 103A2), ♦103J, 113C, ♦201C, 202S, 208B, ♦212A, ♦ and the 1001A data coupler.

(f) **Isolated TK Contact, Clear Signal to Data Set, or No Clear Signal to Data Set:**

Option ZA (isolated TK contact) is required for data set 103A2. Option ZP (clear signal to data set) is required for data sets 103A3, 103E, 103G, 103H, ♦103J, 113C and 212A.♦ Option ZN (no clear signal, no talk signal to data set) should be specified for all other data sets. On data sets 201-type, 202-type, 208B, and 402C, the CL and TK contacts are not used by the data set. Option ZN is selected to provide for uniformity of installation.

(g) **Terminate Call via Data Set or ACU After DSS On:**

Option ♦G♦ (terminate call via data set after DSS on) provides for the data set to terminate the call when the CPE turns off the CD (data terminal ready) lead to the data set. Option ♦Z♦ (terminate call via ACU after DSS on) provides for the ACU to terminate the call when the CPE turns off the CRQ (call request) lead to the ACU.

(h) **Stop or Do Not Stop ACR Timer When DSS Goes On:**

With option R (stop ACR timer when DSS goes on), the ACR timer, which ranges from 7 to 56 seconds, is stopped when the data set is on-line and in the data mode. The ACU takes no action when the ACR lead comes on. This option is recommended when the CPE wishes to use the on condition of ACR lead to begin some program subroutine. With option H (do not stop ACR timer when ACR goes on), the ACR timer continues to run after the data set is on-line and in the data mode. When the ACR timer times out, the ACR lead turns on and remains on until the

CRQ lead turns off. The ACU does not respond to the on condition of the ACR lead. This option is recommended when the CPE uses an EON code to indicate busy conditions, wrong numbers, or other conditions which would prevent completion of a call. The CPE must interpret the indication and decide whether to take any further action.

(i) **ACR Interval:** The ACU is equipped with four ACR timer intervals. Unless specified otherwise by the customer, the 56-second timer should be installed in the ACU. The use of the shorter ACR timers may result in ACR timeout during call setup.

(j) **Signal Ground to Frame Ground Connection:**

The ACU is factory-shipped with the signal ground connected to frame ground (option ZU). This option is a screw switch on the backplane of the individual housing. Unless requested by the customer, the grounds should remain connected.

♦**Note:** Option ZU is required if option V (ground start) is used.◀

**4.04** Table A summarizes the options available in the ACU.

**4.05** Table B contains a cross-reference between options available in this ACU and earlier types of ACU. When an ACU is being replaced or exchanged, verify that the replacing ACU is equipped with the same or equivalent options as the one being replaced. It should be noted that the same option may be designated differently for different models. For information required to select options required for use with a specific data set model, refer to 5.08 or to the applicable BSP for that data set.

**Note:** DAS 801C cannot be substituted for an 801A unless the service order authorizes Touch-Tone service.

## 5. INSTALLATION AND CONNECTIONS

**5.01** The ACU should be installed in conformance with existing practices covering installation of station sets. Section 590-010-200 provides standard installation information.

TABLE B

## EQUIVALENT OPTIONS OF ALL AVAILABLE ACUS

DESCRIPTION		DATA AUXILIARY SETS				
		801C LIST	801C1 & 2	801C3 & 4	801A1, 2, 3, 4	805A5 & 6
	Ground Start (4-Wire) Ground Start (2-Wire) Without Ground Start (Loop Start)	Not Avail. V Y	Not Avail. V Y	ZK V Y	Not Avail. Fac. Wired Not Avail.	Not Avail. Fac. Wired Not Avail.
Options Depend on Data Set Used	Detect End of Answer Tone Detect Beginning of Answer Tone	W X	W Note 1 X	W Note 2 X	W Note 3 X	W Note 5 X
	Detect 2025-Hz Answer Tone Detect 2225-Hz Answer Tone	S T	S Note 1 T	S Note 2 T	S Note 3 T	S Note 5 T
	Data Set to Data Mode by Contact to DT Data Set to Data Mode by Isolated Contact Data Set to Data Mode by Grounded Contact	Q Not Avail. ZG	Q Remove Q Not Avail.	Q F ZG	Q Remove Q Not Avail.	Q F ZG
	Data Set Answer Detection Without End of Number ACU Answer Detection or End of Number	E B	Not Avail. Fac. Wired	E B	Not Avail. Fac. Wired	E B
	Isolated TK Contact Isolated CL Contact Grounded TK and CL Contacts	ZA Not Avail. Use ZP	Fac. Wired Not Avail. Not Avail.	ZA ZC ZB	Fac. Wired Not Avail. Not Avail.	ZA ZC ZB
	No Clear Signal, No TK Contact Clear Signal to Data Set	ZN ZP	Not Avail.			
Customer Options	Terminate Call Via Data Set After DSS On (line transfer in test)	G	Remove Z	G	Z	G
	Terminate Call Via Data Set After DSS On (CL contact in test)	G	Not Avail.	ZD	Not Avail.	ZD
	Terminate Call Via CRQ After DSS On (line transfer)	Z	Z	Z	Remove Z	Z
	Termination Call Via CRQ After DSS On (CL contact)	Z	Not Avail.	A	Not Avail.	A
	Stop ACR Timer When DSS Goes On Do Not Stop ACR Timer When DSS Goes On	R H	R Remove R	R H	Y Remove Y	R H
7-Second ACR Timing 14-Second ACR Timing 28-Second ACR Timing 56-Second ACR Timing	ZQ ZR ZS ZT	Screwdriver Adjustment				
SG Connected to FG SG Not Connected to FG	ZU ZV	Strap No Strap	Strap No Strap	Strap No Strap	Strap No Strap	
2-Wire 4-Wire	Fac. Wired Not Avail.	Fac. Wired Not Avail.	ZH ZJ	Fac. Wired Not Avail.	Fac. Wired Not Avail.	
DLO Controlled by ACU DLO Controlled by ACU and Data Set	Fac. Wired Not Avail.	Fac. Wired Not Avail.	ZM ZL	Fac. Wired Not Avail.	Fac. Wired Not Avail.	
Contact Interface Voltage Interface	Not Avail. Fac. Wired	Not Avail. Fac. Wired	Not Avail. Fac. Wired	U Note 6 V Note 7	ZE ZF	
Mounting Cord — 13-Conductor Mounting Cord — 10-Conductor Mounting Cord — 14-Conductor	M13G Not Avail. Not Avail.	Not Avail. M N Note 4	Not Avail. M N	Not Avail. K M	Not Avail. M N	

Note 1: Available only in 801C2

Note 2: Available only in 801C4

Note 3: Available only in 801A1 and 2

Note 4: P in early production sets

Note 5: Available only in 801A6

Note 6: Available only in 801A2 and 3

Note 7: Available only in 801A1 and 4

**5.02** The ACU must be installed within reach of the interface cord from the data set and the interface cord from the customer equipment. This cord, which is supplied by the customer, should not exceed 50 feet in length and must be equipped with a Cinch or Cannon DB-19604-432 plug (or equivalent). The cord must be wired in accordance with Table C.

**Note:** The ACU may be wall-mounted either vertically or horizontally by using a 193A backboard.

**5.03** The customer must furnish a standard 3-wire grounded 117-Vac power receptacle within reach of the ACU power cord. To prevent the ACU from being turned off accidentally, the outlet must not be under control of a switch. The KS-21239-L4 transformer used with the ACU mounts directly to the outlet and must be attached securely. If more than one 3-prong plug-mounted transformer is associated with the installation, a separate power outlet is required.

**CAUTION:** *Do not connect more than one piece of equipment to the same transformer.*

**5.04** To avoid the possibility of data errors due to a potential difference between ACU or data set ground and ground at the customer-provided equipment, power should be supplied to all data sets and ACUs from the same ac distribution panel used to supply power to the customer-provided equipment. If these units are not served from the same distribution panel, a test should be made to detect excessive noise. Refer to Section 598-012-502 for a ground noise test which utilizes a 6H- or 6A-type impulse counter.

## INSTALLATION

**5.05** The procedure for installing an ACU is as follows:

- (1) Unpack the ACU and remove the protective covering from the housing.
- (2) Disassemble the ACU as directed in 3.01 and 3.02.
- (3) Install the required options. If the ACU is being used to replace an existing ACU,

convert old model ACU options to new ACU options by using Table B.

- (4) If a speaker is required, it can be provided in one of two ways:
  - (a) If the speaker is to be connected at the terminal block, connect as shown in Fig. 3.
  - (b) If the speaker is to be connected at the backplane, remove the backplane as directed in 3.03. Connect the speaker cord to terminals on the backplane as directed in 5.07 or Fig. 3.
- (5) Reassemble the ACU.
- (6) Connect the ACU to the data set using information provided in 5.08.
- (7) Connect the power cord to the transformer as shown on Fig. 3, plug in the transformer, and secure it to the outlet.
- (8) Perform installation tests as called for in Section 598-012-502.

## CONNECTIONS

**5.06** When the ACU is being used to replace an earlier ACU, an M13G cord is required to replace the existing cord. Table D shows the color codes for the cords used with earlier ACUs and the color code for the M13G cord. Disconnect the old cord and connect the new cord according to Table D.

### A. Backplane Connections

**5.07** The 107A speaker and the KS-21239-L4 transformer may be electrically connected to the ACU in the following manner.

- (1) Remove the backplane from the housing as directed in Part 3.
- (2) Connect the four wires from the 107A speaker to terminals on the backplane as follows:  
R lead to terminal SP1  
G lead to terminal SP2  
BK lead to terminal GRD  
Y lead to terminal AC2.◀
- (3) To provide strain relief to the speaker cord, tie a string around the cord and secure the

TABLE C

## INTERFACE WITH CUSTOMER-PROVIDED EQUIPMENT

TERM.	LEAD	EIA LEAD DESIG	SIGNAL PRESENTED TO CPE OR ACU	FUNCTION
	Frame Ground	AA	Ground	Ground (Note 1)
2	Digit Present	DPR	ACU	Controls when ACU may read signals presented on digit signal circuits
3	Abandon Call and Retry	ACR	CPE	Indication to abandon call and retry at a later time
4	Call Request	CRQ	ACU	To request ACU to originate a call
5	Present Next Digit	PND	CPE	Controls presentation of digits on digit signal circuits
6	Power Indication	PWI	CPE	Indicates if power is available in ACU
7	Signal Ground	AB	Ground	Common ground reference for all circuits except AA
9	Reserved for Testing (+ Power)			+ Power for testing
10	Reserved for Testing (- Power)			- Power for testing
13	Call Origination Status	COS (Note 2)	CPE	Indicates status of automatic call origination procedures
14	Digit Signal Circuit - Low Order Bit	Number Bit NB1	ACU	Parallel binary signals (eg, digits of the called number) are presented to the ACU
15	Digit Signal Circuit - Second Order Bit	Number Bit NB2	ACU	
16	Digit Signal Circuit - Third Order Bit	Number Bit NB4	ACU	
17	Digit Signal Circuit - High Order Bit	Number Bit NB8	ACU	
22	Data Line Occupied	DLO	CPE	Indicates if tel line is in use

*Note 1:* If Frame Ground is required, connect to ground at transformer.

*Note 2:* Previously called Data Set Status (DSS).

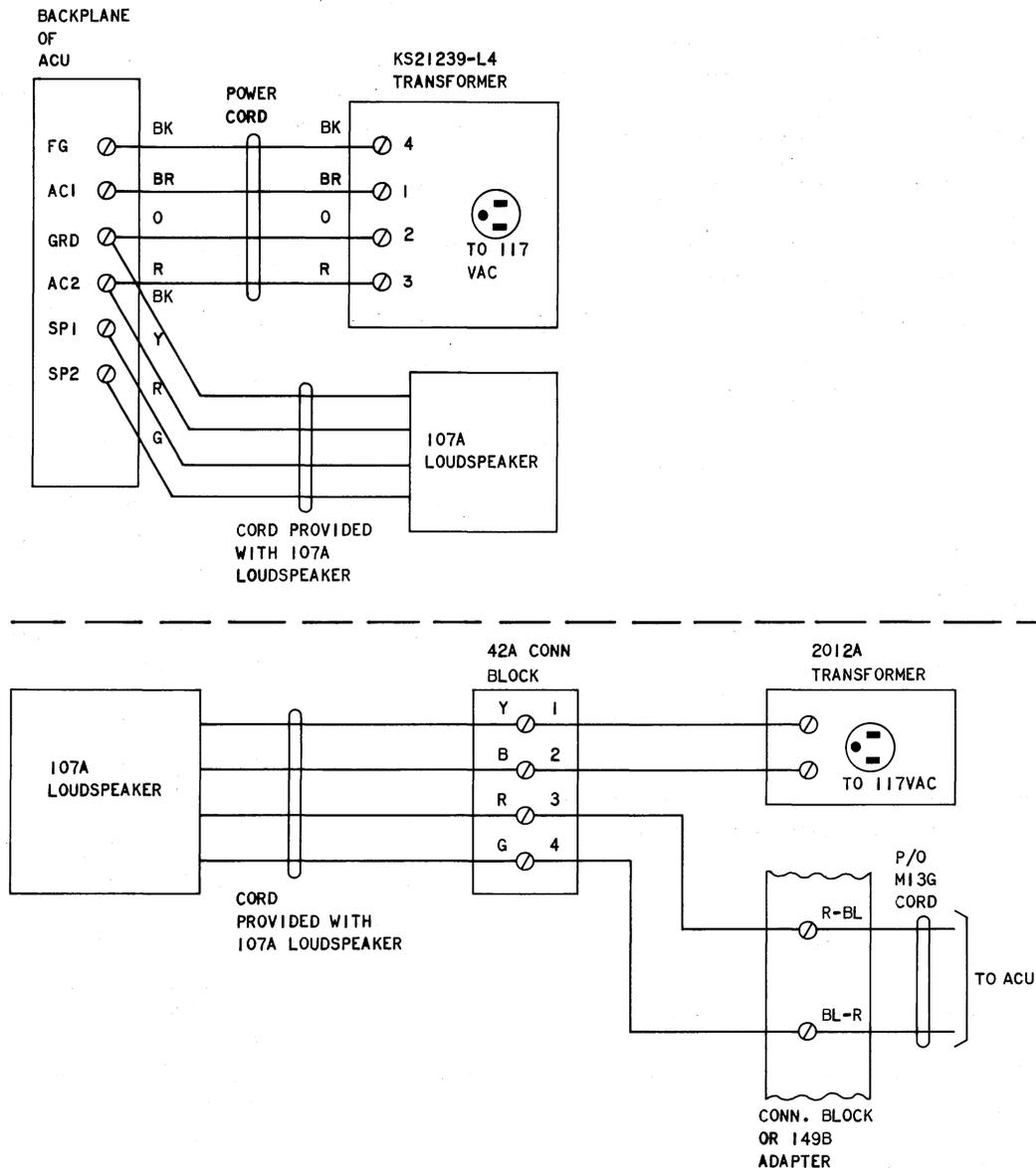


Fig. 3—Two Methods of Connecting 107A Loudspeaker to ACU

cord to the hole in the 40-pin connector on the backplane. Make sure that the metal clip on the speaker cord does not make contact with the electrical circuit on the backplane.

(4) The four wires from the KS-21239-L4 are factory-connected to terminals on the backplane as follows:

- From term 1 on transformer to AC1
- From term 2 on transformer to GRD
- From term 3 on transformer to AC2
- From term 4 on transformer to FG.

(5) Insert the backplane into the housing and secure it with the retaining screws.

(6) Insert DAS 801C-L1 and replace the covers on the housing.

#### B. Data Set Connections

5.08 ♦ Figures 4 through 11 contain option and connection information for the following data sets and data coupler:

- Fig. 4—Data Set 103A2

TABLE D

## CORDS USED WITH DAS 801A- AND 801C-TYPE

ACU LEAD DESIGNATION	COLOR CODE			
	M13G CORD→ 801C LIST	D10P CORD	M14C CORD	D10H CORD
D1	W-BR	W-BR	W-BR	W
D2	—	—	BR-W	—
DT	W-G	W-G	W-G	BR-G
T	W-BL	W-BL	W-BL	G
DR	G-W	G-W	G-W	BR-R
R	BL-W	BL-W	BL-W	R
TK	W-O	W-O	BL-R	BR-BK
C	BR-W	BR-W	R-BL	BK
SH1	S-W	S-W	S-W	BL
SH2	W-S	W-S	W-S	BR-Y
1	—	—	O-R	—
2	—	—	R-O	—
G	O-W	O-W	O-W	Y
3	O-R	—	W-O	—
SP1	BL-R	—	—	—
SP2	R-BL	—	—	—

Note: All unused leads must be individually taped and stored.

- Fig. 5—Data Set 103A3
- Fig. 6—Data Set 103J, 113C, or 212A
- Fig. 7—Data Set 201A3, A4, B3, B4 or 201-List Type
- Fig. 8—Data Set 202C
- Fig. 9—Data Set 201C, 202S, or 208B
- Fig. 10—Data Set 402C
- Fig. 11—1001F Data Coupler

### 5.09 Some ACUs are shipped with the M13G cord.

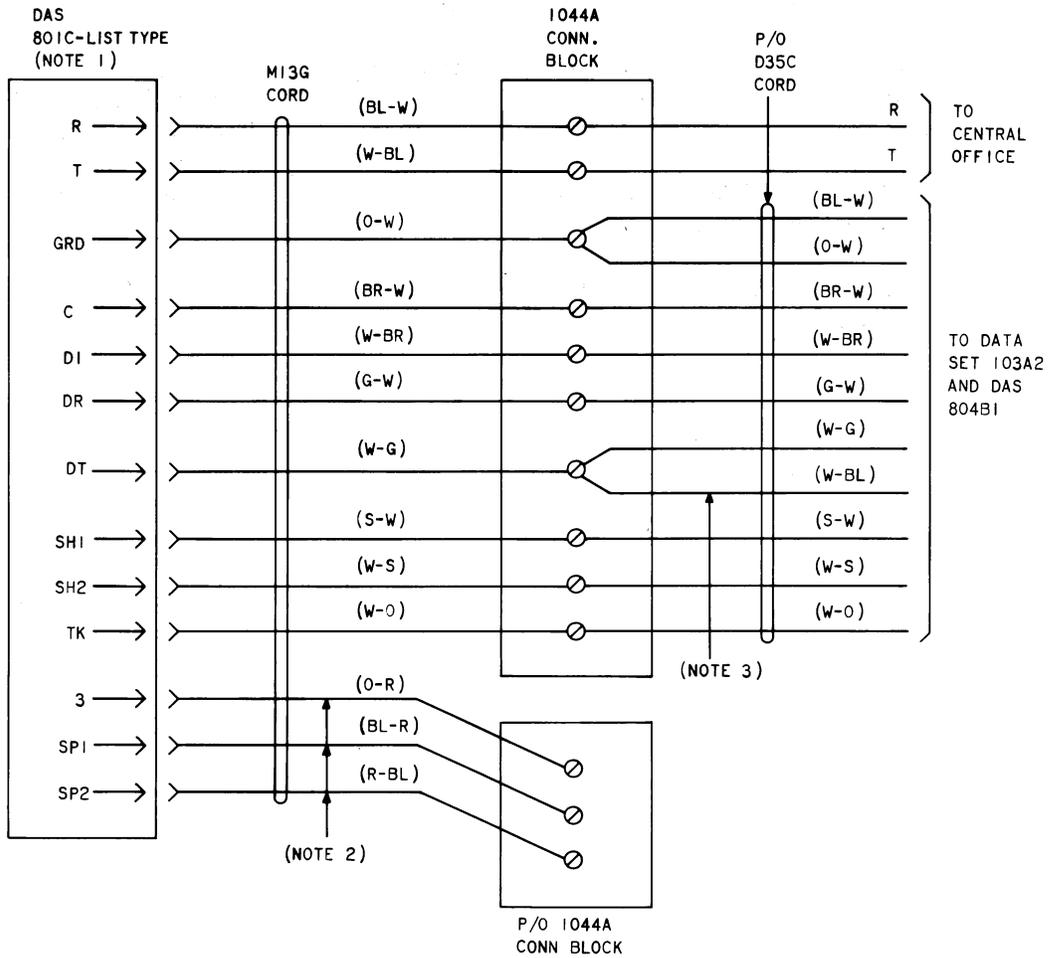
The M13G cord must be connected as shown in Fig. 4 through 11. Other ACUs are shipped with an M15H cord. The M15H cord can be used with all new family data sets (103J, 113C, 202S, 201C, 212A, and 208B) and is connected as shown in Fig. 12.

## 6. REFERENCES

6.01 The following Bell System Practices contain additional information which may be useful when installing an ACU.

SECTION	TITLE
590-010-200	Data Sets and Data Access Arrangements—General Installation and Connection Information
590-010-202	Data Sets—Station Arrangements For Mixed Data Set Types in 40A2 Data Mounting
590-103-111	1001F Data Coupler—Description, Installation, Maintenance, and Tests
591-014-200	Data Set 103A-Type—Installation and Connections
591-014-201	Data Set 103A3—Installation and Connections
591-039-200	Data Set 103J Transmitter-Receiver—Single Set Installation and Connections
591-041-200	Data Set 113C Transmitter-Receiver—Single Set Installation and Connections
592-011-201	Data Set 201A3, A4, B3, B4 Transmitter-Receiver—Installation and Connections
592-015-200	Data Set 202C Transmitter-Receiver—Installation and Connections
592-028-200	Data Set 202S Transmitter-Receiver—Installation and Connections
592-029-200	Data Set 201C Transmitter-Receiver—Installation and Connections
592-030-200	Data Set 208B Transmitter-Receiver—Installation and Connections

SECTION	TITLE	SECTION	TITLE
592-034-200	Data Set 212A Transmitter-Receiver—Installation and Connections	314-205-501	Data Systems—Data-Phone® Service Direct Distance Dialing Network—Test Requirements For Subscriber, Foreign Exchange, and Remote Exchange Lines
598-012-102	Data Auxiliary Set 801C List-Type—Description and Operation		
598-012-502	Data Auxiliary Set 801C List-Type—Test Procedures		



NOTES:  
1. DAS OPTIONS

REQUIRED	NOT USED	CHOOSE
Q	ZG	V OR Y
ZA	ZN	R OR H
B	ZP	G OR Z
T	E	ZQ, ZR, ZS, OR ZT
X	S	ZU OR ZV
	W	

2. THESE LEADS ARE NOT USED AND ARE TERMINATED ON A SEPARATE 1044A CONN BLOCK FOR STORAGE.
3. CONNECTIONS SHOWN ARE FOR LOOP START OPERATION. FOR GROUND START OPERATION, DISCONNECT (W-BL) LEAD FROM DT AND CONNECT TO GRD.

Fig. 4—ACU Used With Data Set 103A2

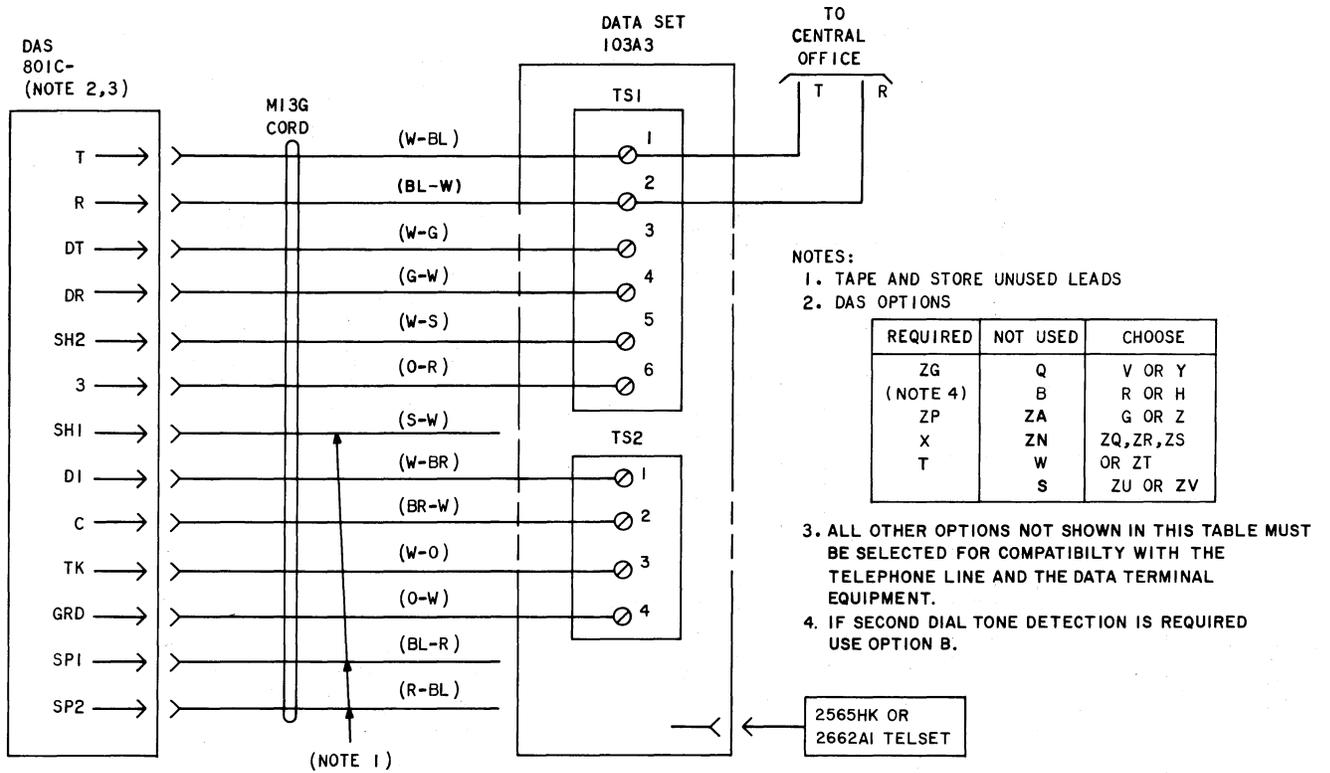


Fig. 5—ACU Used With Data Set 103A3

DAS 801C-LIST TYPE

NOTES:

1. DAS OPTIONS:

REQUIRED	NOT USED	CHOOSE
X	W	R OR H
T	S	V OR Y
B	E	G OR Z
ZG	Q	ZQ, ZR, ZS,
ZP	ZA	OR ZT
	ZN	ZU OR ZV

2. INSTALLER STRAPS

3. THESE LEADS ARE UNUSED AND ARE TERMINATED ON 149B ADAPTER FOR STORAGE.

4. ADD STRAP IN TELEPHONE SET BETWEEN TERMINALS 1H AND 8 FOR DS 103J, 113C, AND 212A.

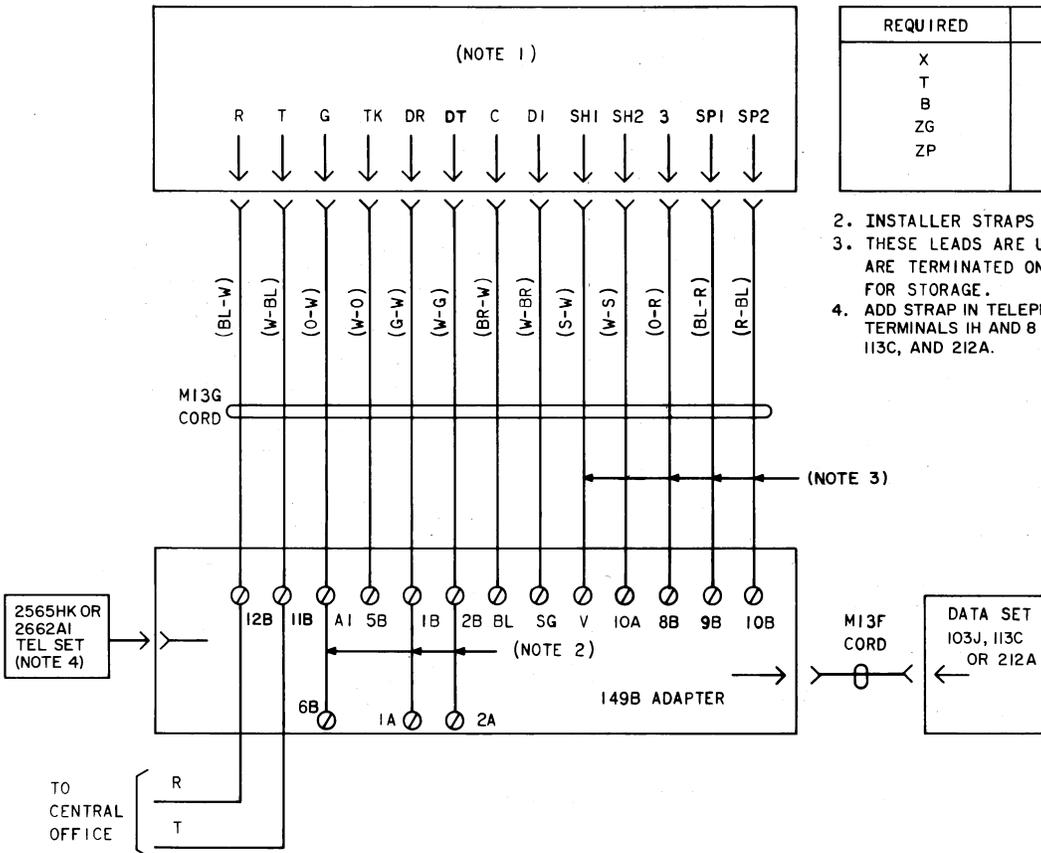


Fig. 6—ACU Used With Data Set 103J, 113C, or 212A

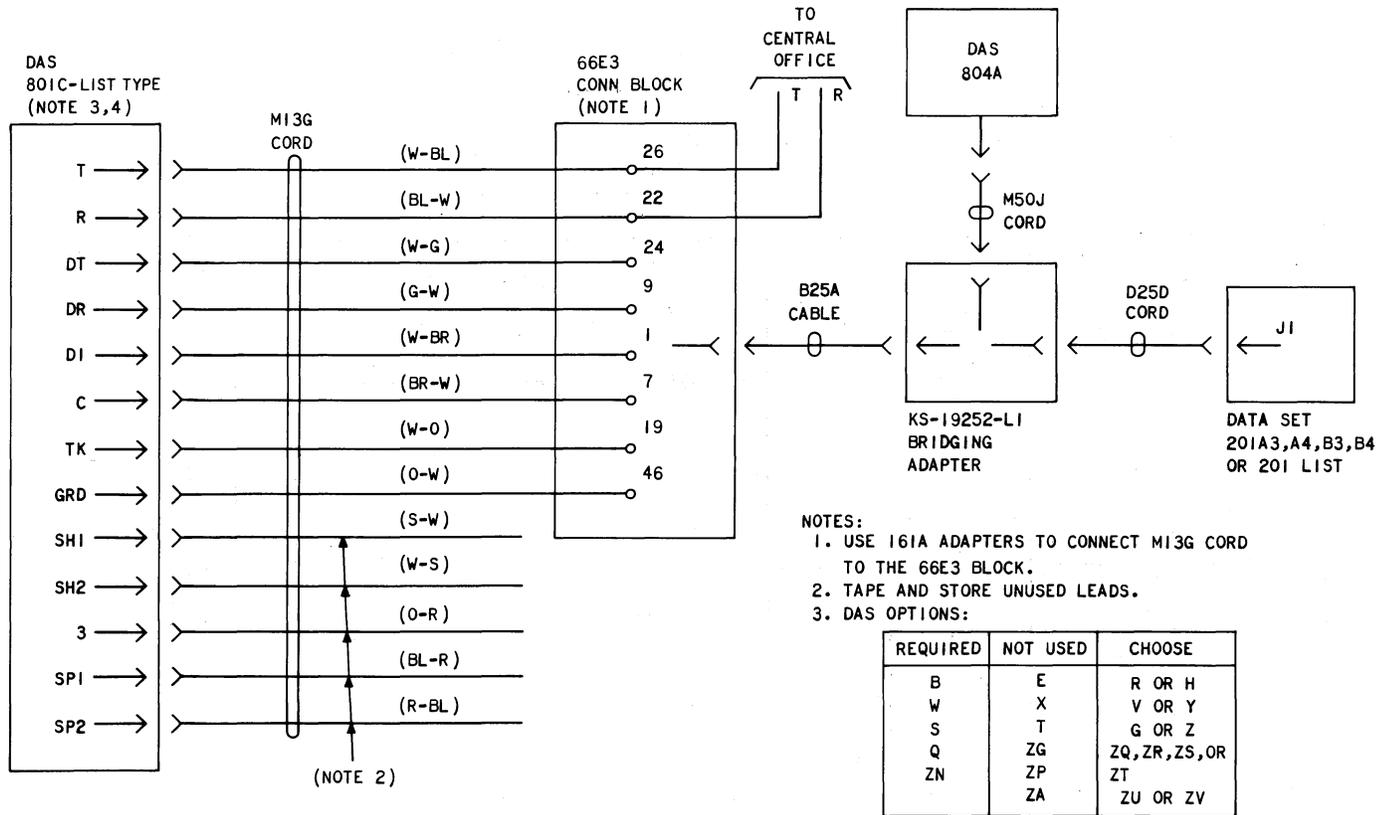
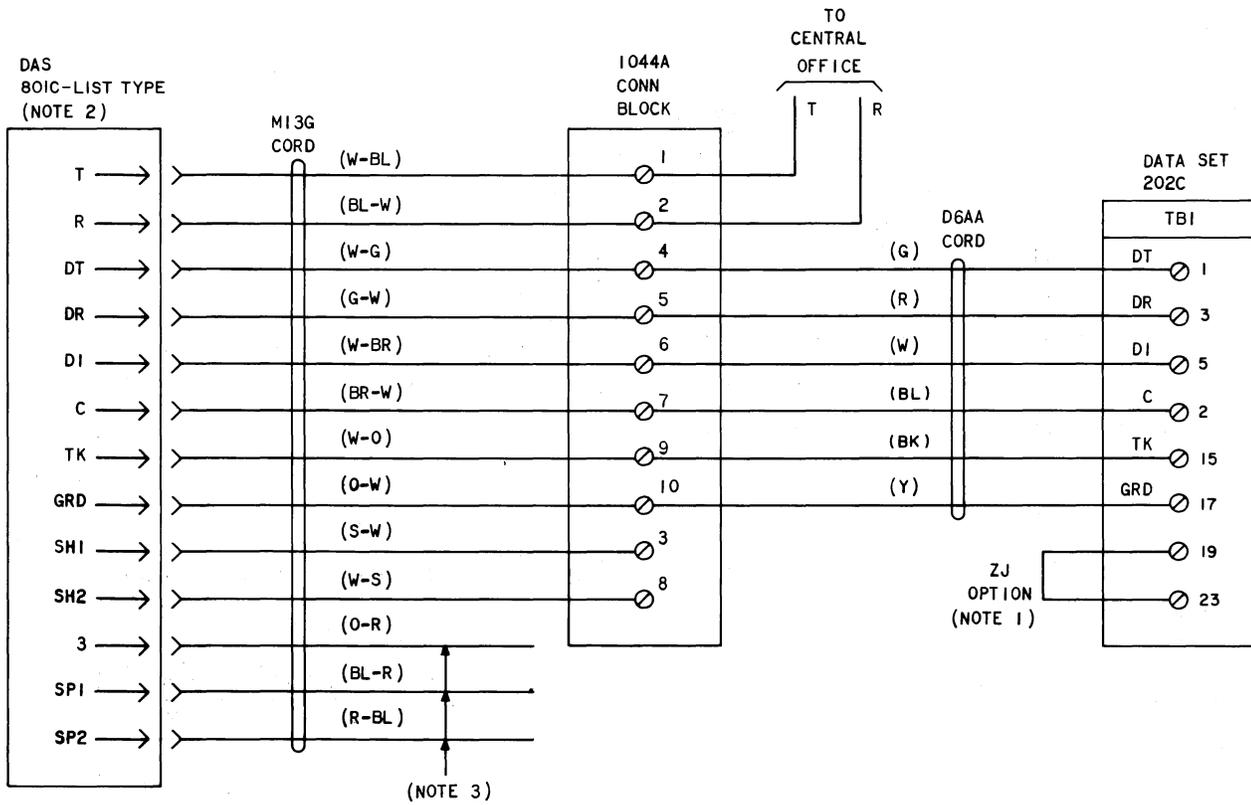


Fig. 7—ACU Used With Data Set 201A3, A4, B3, B4, or 201 List-Type



NOTES:

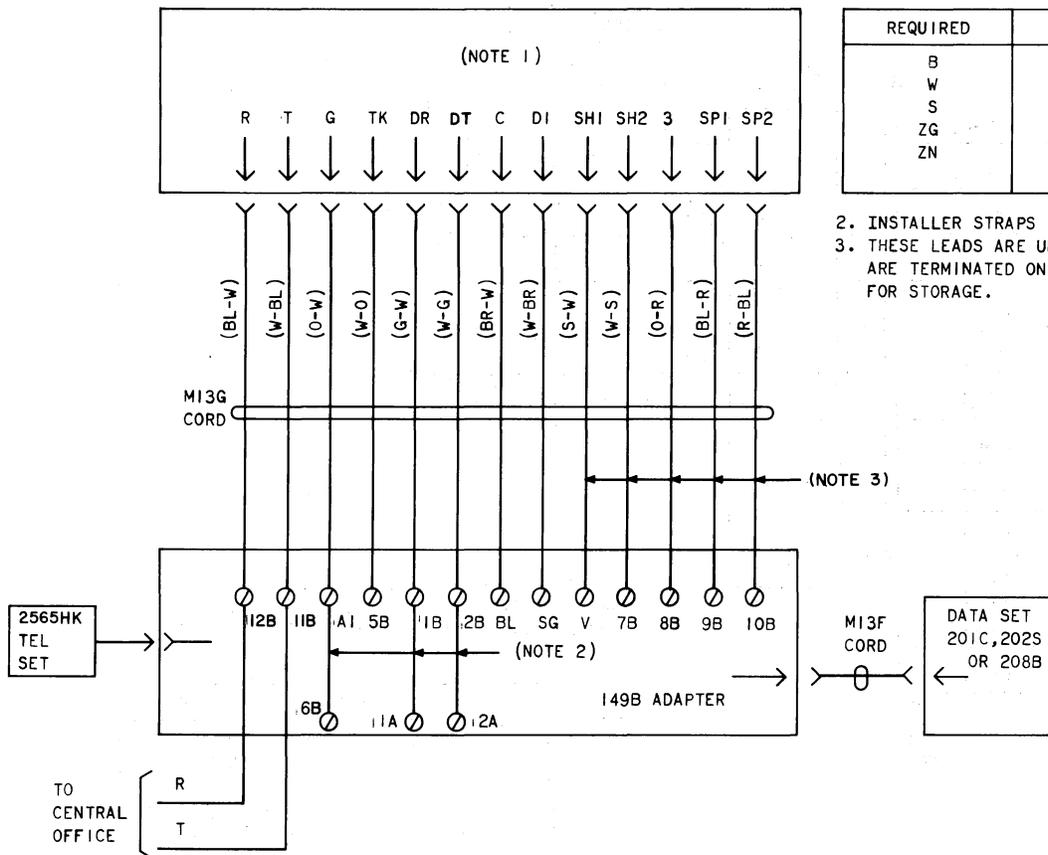
1. ZJ OPTION IS REQUIRED FOR GROUND START ACU. IN ADDITION, ADD DESIGNATION DIAL TONE - IN SPARE 1 POSITION ON KEY DESIGNATION STRIP. THE STRAP IS NOT REQUIRED FOR LOOP START ACU AND IS STORED AT TBI-17 AND 20.
2. DAS OPTIONS:

REQUIRED	NOT USED	CHOOSE
W	X	R OR H
S	T	Z OR G
Q	ZG	V OR Y
B	E	ZQ, ZR, ZS
ZN	ZP OR	OR ZT
	ZA	ZU OR ZV

3. TAPE AND STORE UNUSED LEADS.

Fig. 8—ACU Used With Data Set 202C

DAS 801C-LIST TYPE



NOTES:

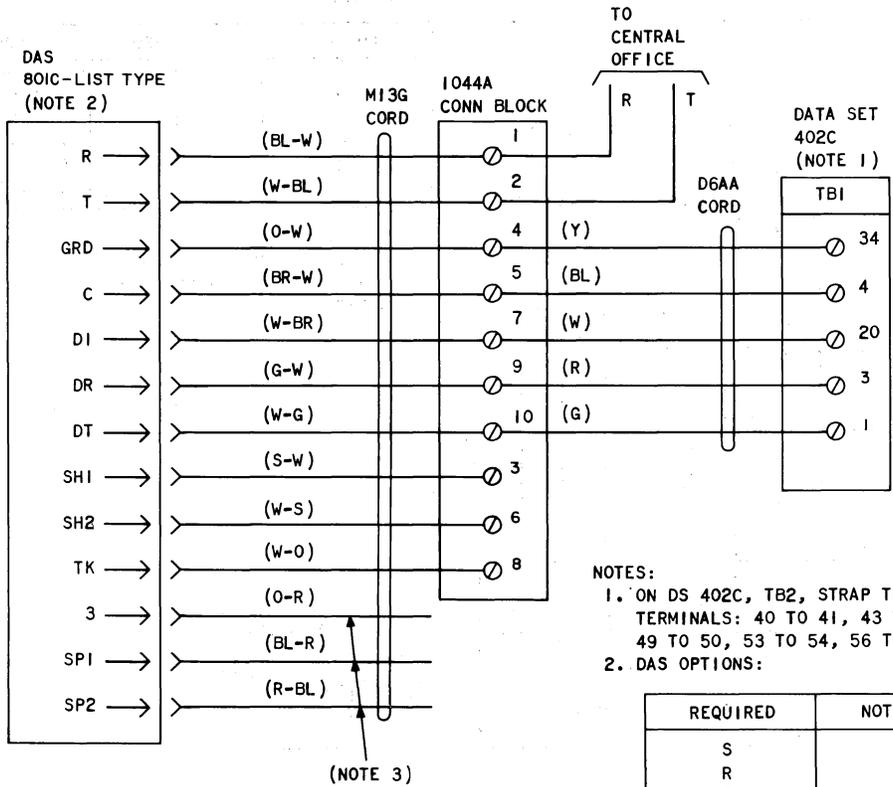
1. DAS OPTIONS:

REQUIRED	NOT USED	CHOOSE
B	E	R OR H
W	X	V OR Y
S	T	G OR Z
ZG	Q	ZQ, ZR, ZS,
ZN	ZP	OR ZT
	ZA	ZU OR ZV

2. INSTALLER STRAPS

3. THESE LEADS ARE UNUSED AND ARE TERMINATED ON 149B ADAPTER FOR STORAGE.

Fig. 9—ACU Used With Data Set 201C, 202S, or 208B

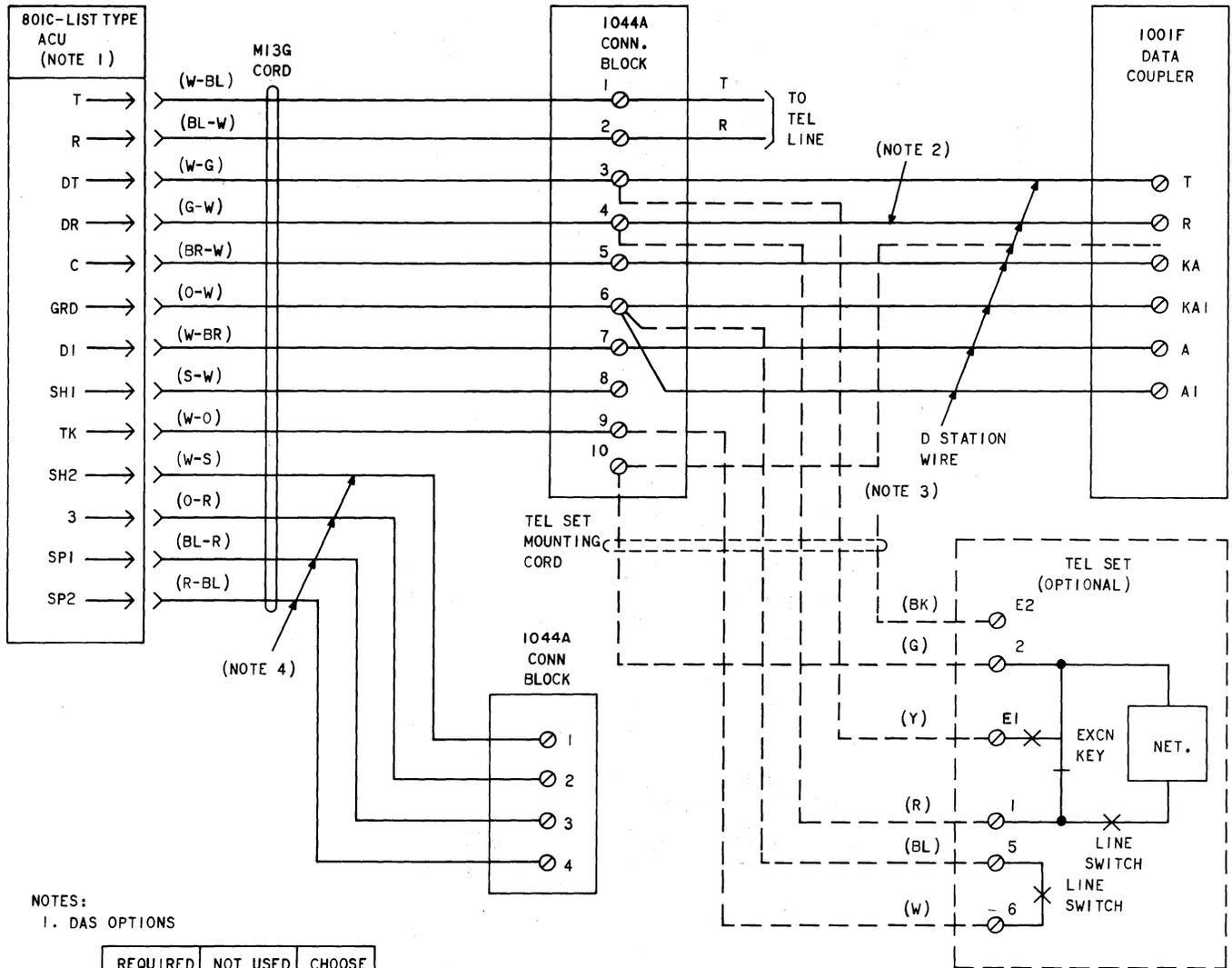


- NOTES:
- ON DS 402C, TB2, STRAP THE FOLLOWING TERMINALS: 40 TO 41, 43 TO 44, 46 TO 47, 49 TO 50, 53 TO 54, 56 TO 57, 59 TO 60, 62 TO 63.
  - DAS OPTIONS:

REQUIRED	NOT USED	CHOOSE
S	T	V OR Y
R	H	E OR B
Q	ZG	G OR Z
W	ZA	ZQ, ZR, ZS OR ZT,
ZN	ZP	ZU, OR ZV

3. TAPE AND STORE UNUSED LEADS.

Fig. 10—ACU Used With Data Set 402C



NOTES:

1. DAS OPTIONS

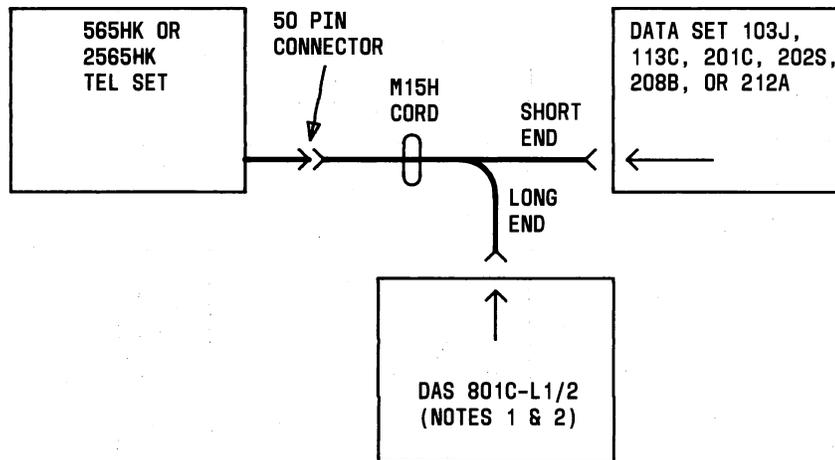
REQUIRED	NOT USED	CHOOSE
ZG	Q	V OR Y
G	Z	W OR X
		S OR T
		R OR H

2. WHEN TEL SET IS PROVIDED, DELETE THIS LEAD AND CONNECT DASHED WIRING.

3. TAPE AND STORE.

4. THESE LEADS ARE NOT USED AND ARE TERMINATED ON THE SECOND 1044A CONN. BLOCK FOR STORAGE.

Fig. 11—ACU Used With 1001F Data Coupler



NOTES:

1. DAS OPTIONS FOR DATA SET 103J, 113C, OR 212A:

REQUIRED	NOT USED	CHOOSE
X	W	R OR H
T	S	V OR Y
B	E	G OR Z
ZG	Q	ZQ, ZR, ZS,
ZP	ZA	OR ZT
	ZN	ZU OR ZV

2. DAS OPTIONS FOR DATA SET 201C, 202S, OR 208B:

REQUIRED	NOT USED	CHOOSE
B	E	R OR H
W	X	V OR Y
S	T	G OR Z
ZG	Q	ZQ, ZR, ZS,
ZN	ZP	OR ZT
	ZA	ZU OR ZV

Fig. 12—ACU Used With M15H Cord