

DATA AUXILIARY SETS 801A5 AND 801A6 FOR AUTOMATIC CALLING INSTALLATION AND CONNECTIONS

1. GENERAL

1.01 This section provides installation and connection information for Data Auxiliary Set (DAS) 801A5 or 801A6.

1.02 This section is reissued to show changes in the abandon call and retry (ACR) timer switch and to provide additional installation and connection information.

1.03 DAS 801A5 or 801A6 will be referred to in this section as ACU (automatic calling unit) unless special applications make it necessary to refer to the data auxiliary set by complete nomenclature.

1.04 When test or demonstration calls are made, refer to the section entitled Crediting Charges On Test Calls (010-250-001) to properly credit charges.

1.05 Cover removal and replacement procedures for the ACU and the ACU mounting cord change procedure, when applicable, are described in the section entitled Data Auxiliary Set 801A5 and 801A6—For Automatic Calling—Maintenance (598-010-301).

1.06 This section does not include option wiring information of the associated data set.



Before starting installation, verify that telephone (data) line is arranged for ground start operation.

1.07 Ground start operation may be verified by connecting a 1013-type handset across tip and ring. Dial tone should not be heard. Momentarily

ground the **ring** side of the line and dial tone should be heard.

1.08 **Ground start ACUs are not compatible with step-by-step common control or step-by-step noncommon control central offices. In these locations, remote exchange loops or loop-start ACUs must be provided.**

2. INSTALLATION

2.01 DAS 801A5 or 801A6 shall be installed in conformance with existing practices covering installation of station sets. This includes ground start and standard dc talk, signaling, and supervision requirements.

2.02 For selection of type connecting blocks and electrical code requirements, refer to section entitled Data Sets—General Installation Information (590-010-200).

2.03 **If more than one DAS 801A5 or 801A6 is to be installed in a multiple installation, refer to the section entitled Data Sets—Multiple Installation Information (590-010-201).**

2.04 The ACU must be located within range of the interface connector cords supplied by the customer. These cords should not be over 50 feet long.

2.05 The customer must furnish a 3-wire, 60-Hz ac power outlet (two parallel blades and a U-shaped grounding pin). The outlet should not be under the control of a switch.

2.06 Figures 1 and 2 illustrate the main components and the arrangement of these components in typical installation. Figure 3 illustrates a block diagram of a typical installation.

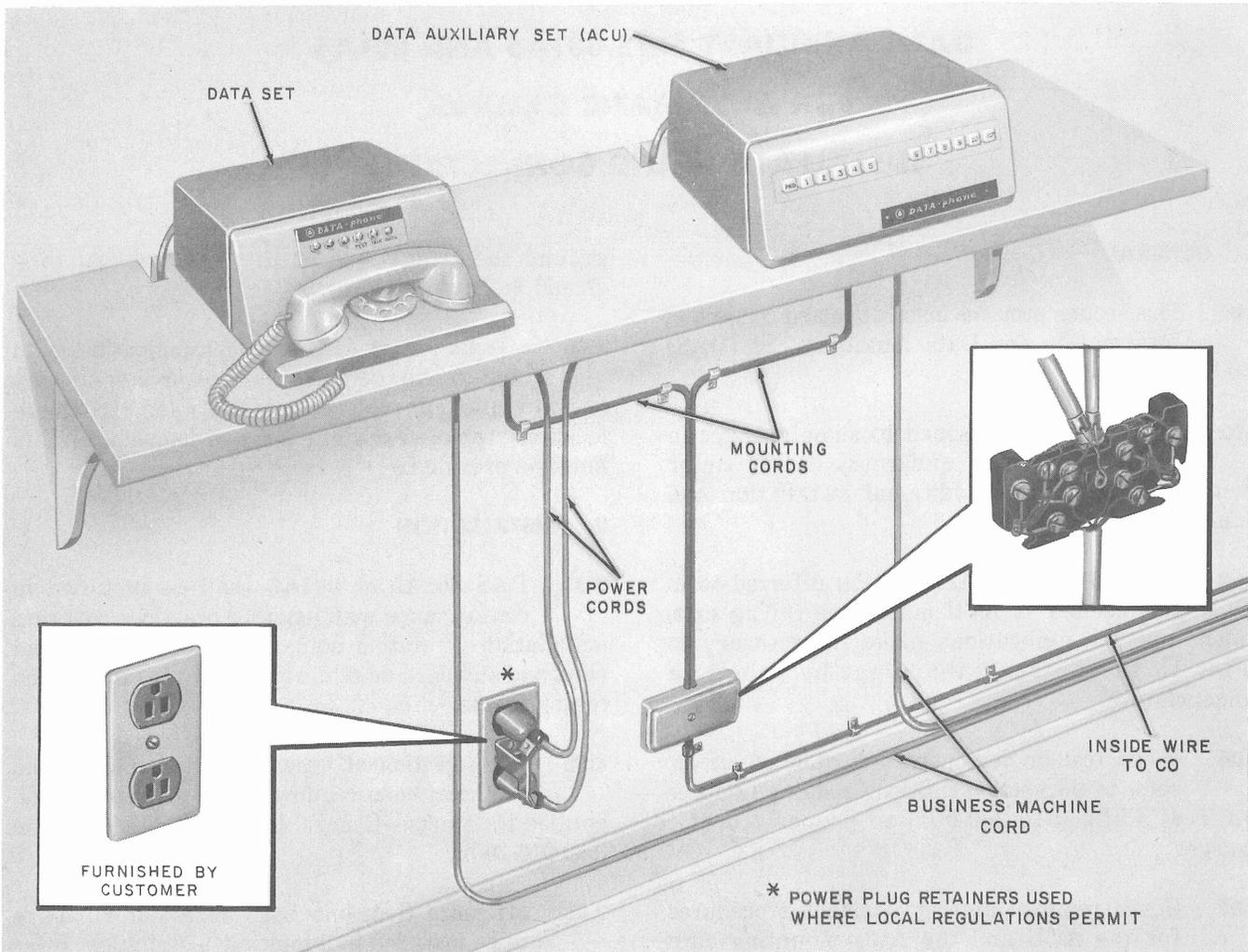


Fig. 1—Main Components of a Typical Installation Using a Single ACU and Integral Data Set

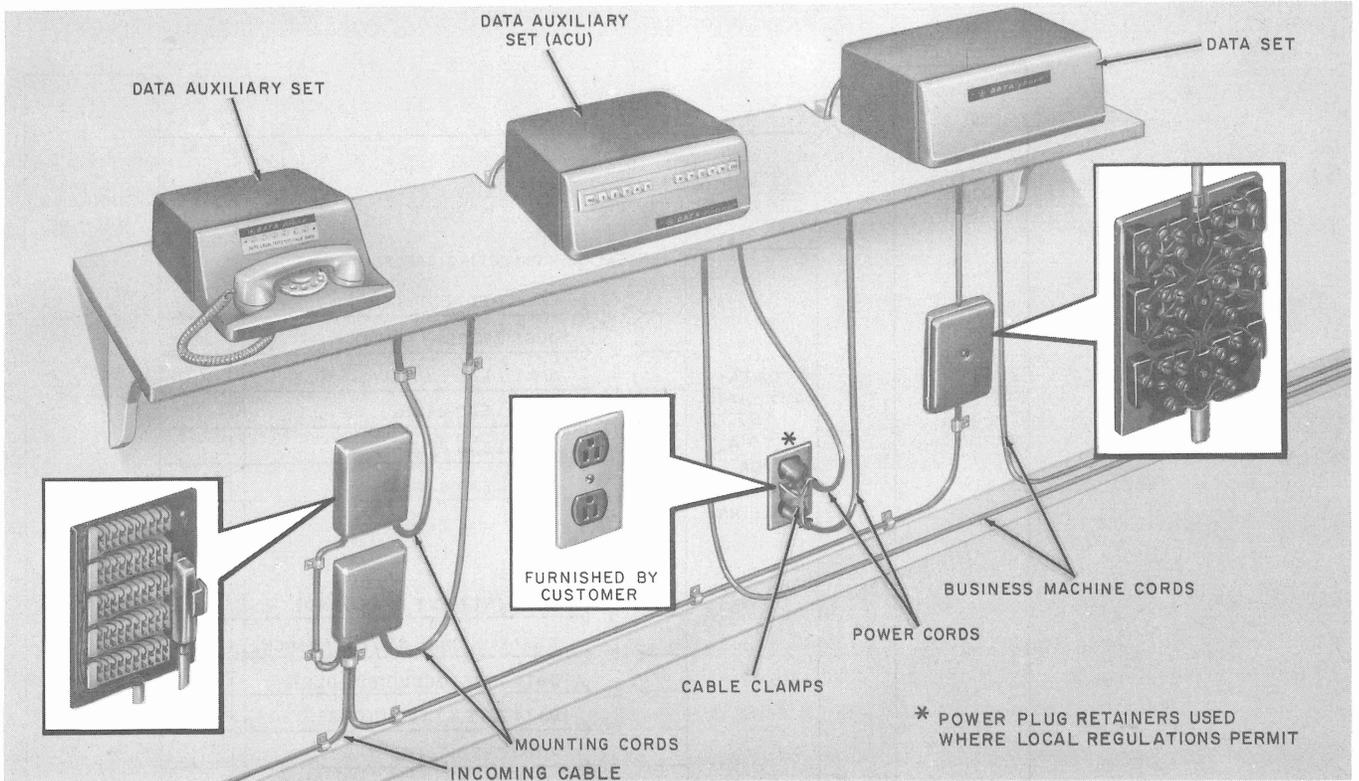


Fig. 2—Main Components of a Typical Installation Using a Single ACU With Data Auxiliary Set

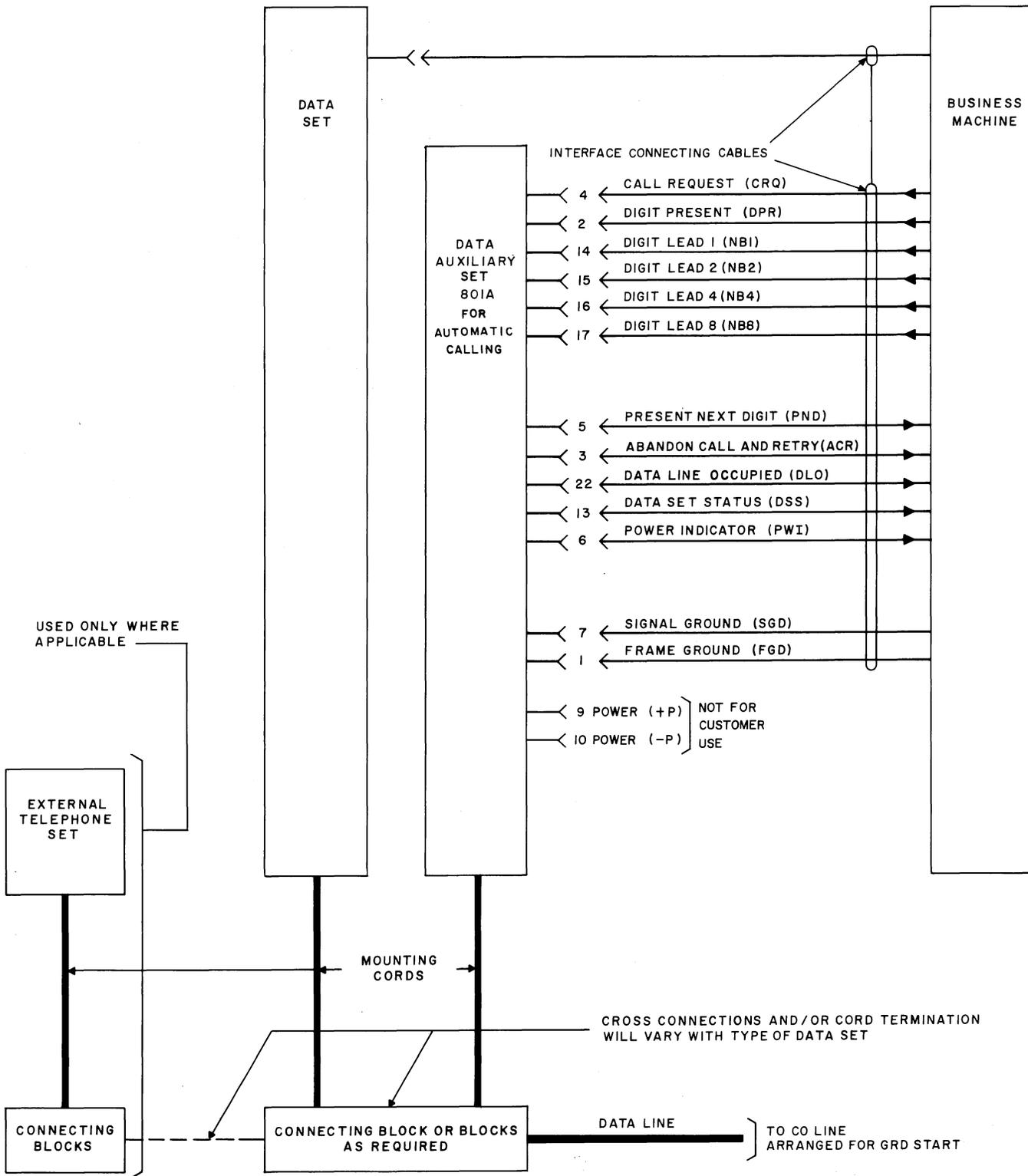


Fig. 3—Block Diagram of a Typical Installation

3. OPTIONAL CONNECTIONS



To eliminate possible damage to electronic components in the ACU, do not make power connection until all other connections have been completed.

3.01 ACU options must be specified on the service order. Use Fig. 4 for location of TB1, TB2, and CP AS14 for strapping locations. Strap the options per Table A. Options shown in Table A apply to both Data Auxiliary Set 801A5 and 801A6.

3.02 Since it is possible to interchange two ACUs which contain the same options with different designations, Table B is provided to identify the options for all interchangeable ACUs to aid in correlating the options of the replacing ACU with those of the replaced ACU.

3.03 The ACR timer should be set (Fig. 5 and Table C) for the time interval specified on the service order. In DAS 801A5 and 801A6 series 5 and above, there is an additional 40-second monitor setting that makes it possible to monitor the progress of the call through the ACU speaker. Where no ACR time interval is specified, set time to 40-second position.

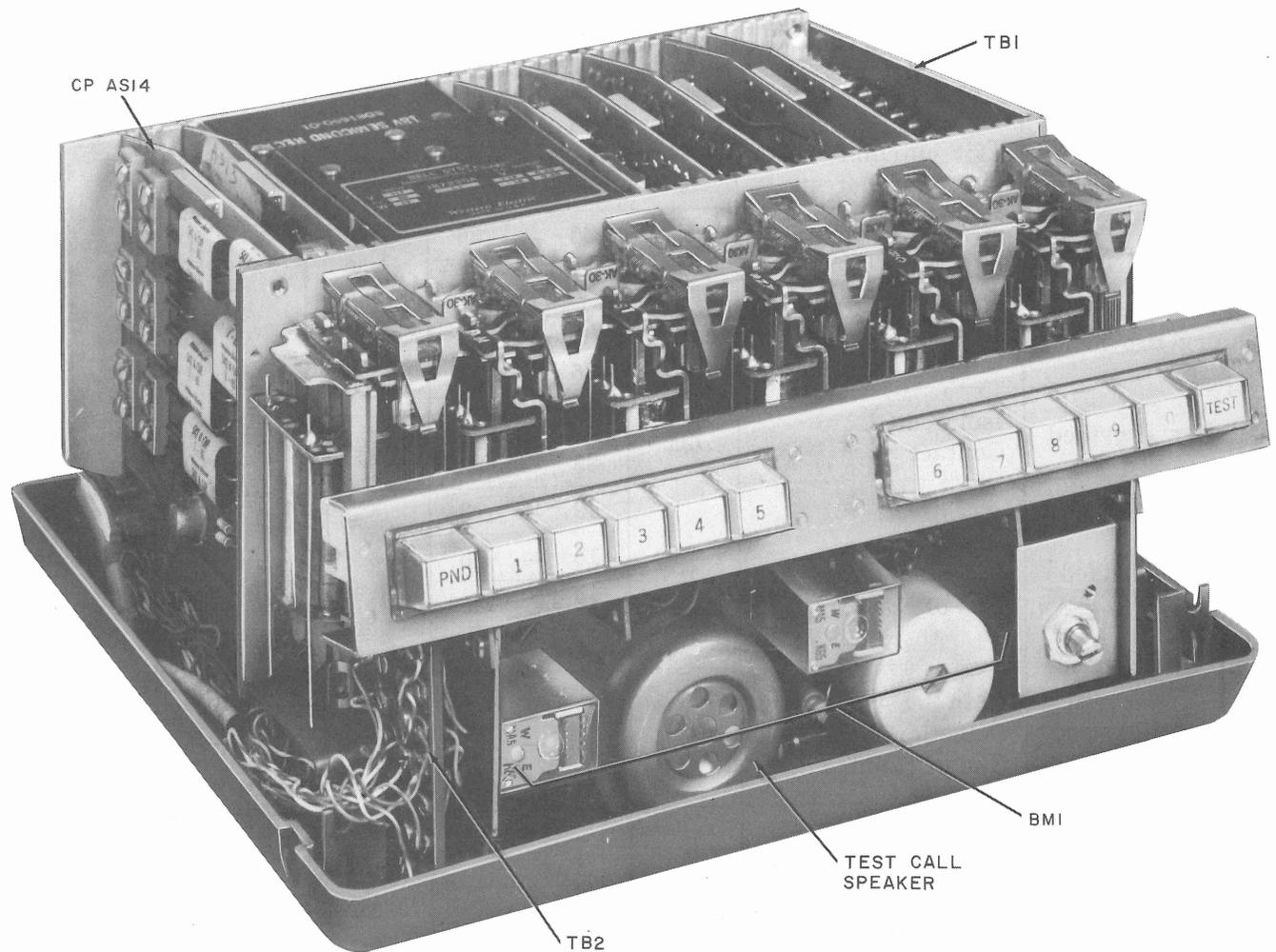


Fig. 4—Data Auxiliary Set 801A-Type, Inside View

TABLE A

OPTION PROVISIONING	FEATURE OR OPTION DESCRIPTION	OPTION DESIG.	TB1		REQUIREMENT	SCREW TERMINALS† ON CP A514	
			CONNECT AS SHOWN			TURN COUNTER-CLOCKWISE	TURN FULL CLOCKWISE
			TERM. NO.	TERM. NO.			
Installer Provided	Terminate call via CRQ after DSS on (CL Contact)	A ✓	25 — 26		Use one of the four		
			61 — 62				
			64 — 65				
Factory Provided	Terminate call via CRQ after DSS on (Line Transfer)	Z	25 — 26				
			61 — 62				
			63 — 64				
Installer Provided	Terminate call via Data Set After DSS on (CL Contact in Test)	ZD	60 — 61				
			64 — 65				
Installer Provided	Terminate call via Data Set After DSS on (Line Transfer in Test)	G	63 — 64				
			60 — 61				
Installer Provided	Grounded TK and CL Contacts	ZB ✓	35 — 36		Use one of the three		
			37 — 38				
Factory Provided	Isolated TK Contact	ZA	34 — 35				
			36 — 37				
Installer Provided	Isolated CL Contact	ZC	36 — 37				
			38 — 39				
Factory Provided	ACU Answer Detection or End of Number	B	2 — 3		Use one of the two		
			15 — 16				
			32 — 33				
			51 — 52				
Installer Provided	Data Set Answer Detection Without End of Number	E ✓	1 — 2				
			14 — 15				
			50 — 51				
Factory Provided	Stop ACR Timer When DSS Goes On	R ✓	55 — 56		Use one of the two		
Installer Provided	Do Not Stop ACR Timer When DSS Goes On	H	56 — 57				

TABLE A (Cont)

OPTION PROVISIONING	FEATURE OR OPTION DESCRIPTION	OPTION DESIG.	TBI		REQUIREMENT	SCREW TERMINALS† ON CP AS14	
			CONNECT AS SHOWN			TURN COUNTER-CLOCKWISE	TURN FULL CLOCKWISE
			TERM. NO.	TERM. NO.			
Installer Provided	Data Set to Data Mode by Grounded Contact	ZG ✓	44	— 45	Use one of the three		
Factory Provided	Data Set to Data Mode by Contact to DT	Q	43	— 44			
Installer Provided	Data Set to Data Mode by Isolated Contact	F	42	— 43			
Factory Provided	Detect 2025 Answer Tone	S	46	— 47	Use one of the two		
Installer Provided	Detect 2225 Answer Tone	T ✓	47	— 48			
Factory Provided	Detect Beginning of Answer Tone	X	27	— 28	Use one of the two		
Installer Provided	Detect End of Answer Tone	W	28	— 29			
Factory Provided	Voltage Interface	ZF ✓			Use one of the two	14, 15, 16, 17, 18 (Note)	1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12
Installer Provided	Contact Interface	ZE	4	— 5			1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12
Factory Provided	10-Conductor Mounting Cord (D10P-61)*	M ✓			Use one of the two		
Installer Provided	14-Conductor Mounting Cord (M14C-16)*	N					
Factory Provided	Short loop (under 400 ohms)			Remove ✓ option ZU	Use one of the two		
Installer Provided	Long loop (over 400 ohms)	ZU	30	— 31			

* For interconnections, using either cord, refer to the installation section of the applicable data set.

† Loosen screws on option strap approximately 4-1/2 turns to insure an open circuit.

Note: Screw terminals 5 and 13 are not used and may be either fully clockwise or counterclockwise.

TABLE B
OPTIONS OF ALL AVAILABLE ACUs

DESCRIPTION	DATA AUXILIARY SETS			
	801C1 & 2	801C3 & 4	801A1, 2, 3 & 4	801A5 & 6
Ground Start (4-Wire)	Not Avail.	ZK	Not Avail.	Not Avail.
Ground Start (2-Wire)	V	V	Fac. Wired	Fac. Wired
Without Ground Start (Loop Start)	Y	Y	Not Avail.	Not Avail.
Detect End of Answer Tone	W	W	W	W
Detect Beginning of Answer Tone	X Note 1	X Note 2	X Note 3	X Note 5
Detect 2025 Answer Tone	S	S	S	S
Detect 2225 Answer Tone	T Note 1	T Note 2	T Note 3	T Note 5
Mounting Cord — 10 Conductor	M	M	K	M
Mounting Cord — 14 Conductor	N Note 4	N	M	N
Data Set to Data Mode by Contact to DT	Q	Q	Q	Q
Data Set to Data Mode by Isolated Contact	Remove Q	F	Remove Q	F
Data Set to Data Mode by Grounded Contact	Not Avail.	ZG	Not Avail.	ZG
Stop ACR Timer When DSS Goes on	R	R	Y	R
Do Not Stop ACR Timer When DSS Goes on	Remove R	H	Remove Y	H
Data Set Answer Detection Without End of Number	Not Avail.	E	Not Avail.	E
ACU Answer Detection or End of Number	Fac. Wired	B	Fac. Wired	B
Isolated TK Contact	Fac. Wired	ZA	Fac. Wired	ZA
Isolated CL Contact	Not Avail.	ZC	Not Avail.	ZC
Grounded TK and CL Contacts	Not Avail.	ZB	Not Avail.	ZB
Terminate Call Via Data Set After DSS on (Line Transfer in Test)	Remove Z	G	Z	G
Terminate Call Via Data Set After DSS on (CL Contact in Test)	Not Avail.	ZD	Not Avail.	ZD
Terminate Call Via CRQ After DSS on (Line Transfer)	Z	Z	Remove Z	Z
Termination Call Via CRQ After DSS on (CL Contact)	Not Avail.	A	Not Avail.	A
2-Wire	Fac. Wired	ZH	Fac. Wired	Fac. Wired
4-Wire	Not Avail.	ZJ	Not Avail.	Not Avail.
DLO Controlled by ACU	Fac. Wired	ZM	Fac. Wired	Fac. Wired
DLO Controlled by ACU and Data Set	Not Avail.	ZL	Not Avail.	Not Avail.
Contact Interface	Not Avail.	Not Avail.	U Note 6	ZE
Voltage Interface	Fac. Wired	Fac. Wired	V Note 7	ZF

Notes:

1. Available only in 801C2
2. Available only in 801C4
3. Available only in 801A1 and 2
4. P in early production sets
5. Available only in 801A6
6. Available only in 801A2 and 3
7. Available only in 801A1 and 4

TABLE C
ACR TIMER ADJUSTMENT

INTERVAL SELECTED SECONDS	ACR TIMER ADJUSTMENT
7	Rotate adjustment screw to extreme counterclockwise position.
10	Rotate adjustment screw one position clockwise from extreme counterclockwise position.
15	Rotate adjustment screw two positions clockwise from extreme counterclockwise position.
25	Rotate adjustment screw three positions clockwise from extreme counterclockwise position.
40	Rotate adjustment screw four positions clockwise from extreme counterclockwise position.
†40 Monitor	Rotate adjustment screw to extreme clockwise position for monitor mode.

† 801A5 and 801A6 series 5 and above.

3.04 Mounting cord interconnecting arrangements for the ACU and associated data set is shown in the connecting section of the applicable data set. Select the interconnecting figure that is applicable and wire accordingly.

3.05 Connect the power cord between the ACU power cord connector and the furnished 3-wire power outlet. Secure the power outlet end of the power cord with an approved type clamp unless prohibited by local ordinance.

3.06 Perform installation tests as described in section entitled Data Auxiliary Set 801A5 and 801A6—For Automatic Calling—Test Procedures (598-010-501).

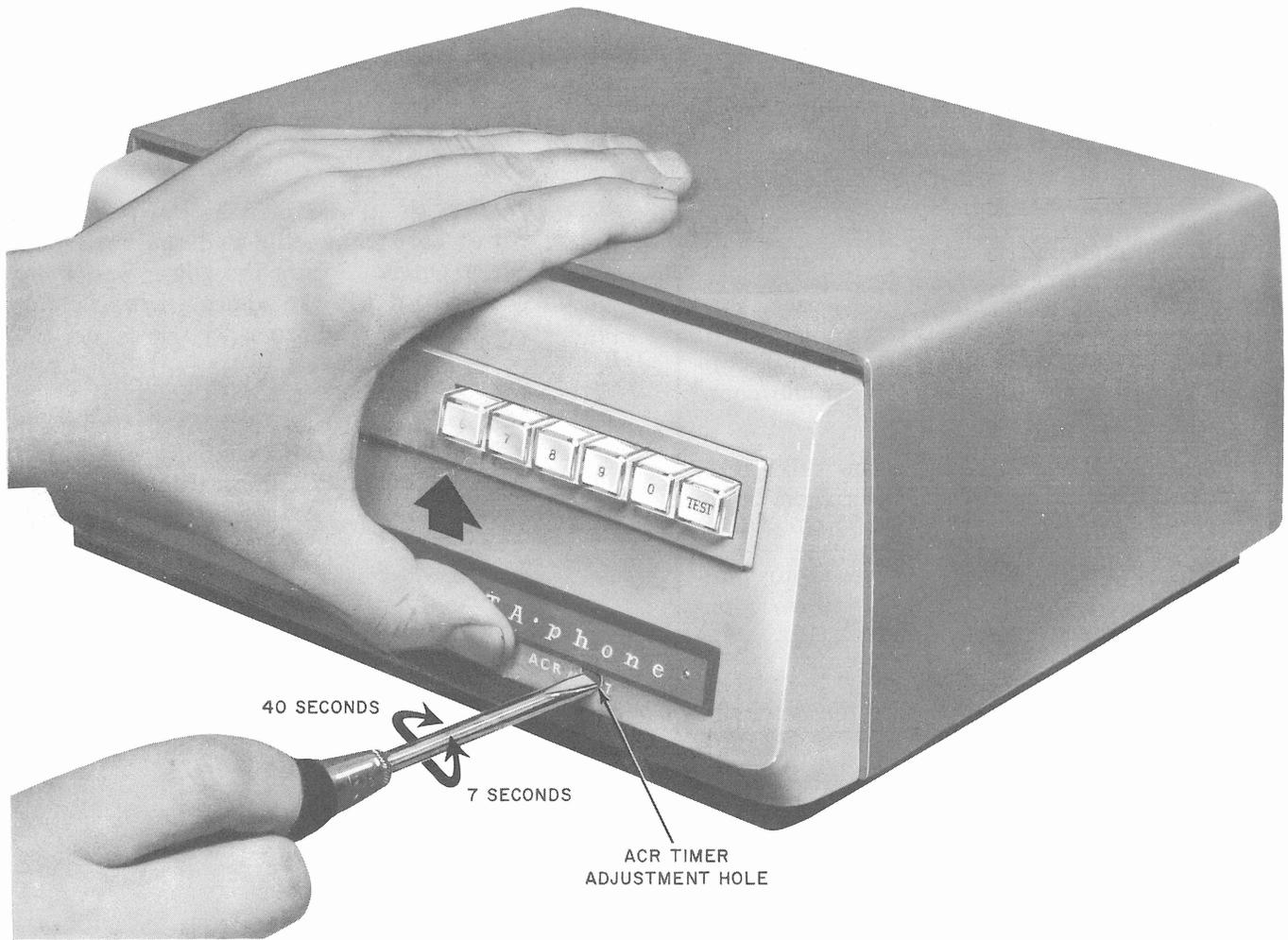


Fig. 5—ACR Timer Adjustment