SERVICE

AC- AND AD-TYPE TELEPHONE BASES WITH 220-, 226-, 2220-, AND 2226-TYPE HAND TELEPHONE SETS CONNECTIONS

1. GENERAL

1.01 This section contains information for the AC1 (MD), AC1P, AC2 (MD), AC2P, AC2PH, AD1 (MD), AD2, AD3, and AD3H telephone bases and associated 220A (MD), 220C, 220AL, 220AM, 226A, 2220B (MD), 2220C, 2220BM, 2220BMG, and 2226A hand telephone sets. For additional information on hand telephone sets, refer to Section 502-303-102.



All AC1 and AD1 telephone bases manufactured prior to 10-1-72 and any base which is opened for any reason should be rewired as shown in Table A before proceeding with connections shown in other tables.

1.02 This section is reissued to:

- Show 426M diode MD, replaced by 813BH diode (D-180697 Kit of Parts)
- Delete reference to D-180788 Kit of Parts, Polarity Guard for 2220B and 2220BM
- Add D-180984 Kit of Parts, Polarity Guard for 2220B and 2220BM
- Add 2220BMG code (factory installed) polarity guard
- Add AC2PH and AD3H code (Special Hospital Telephone Bases)
- · Add information on P3A ringer.



The 220C, 220AL, 226A, 2220C, and 2226A hand telephone sets are equipped with light emitting diodes (LED) for dial illumination. This type of

illumination may not be visible in normal light.



Power for all the LED-type hand telephone sets is supplied from the central office battery over the incoming line. No external ac power is required for dial illumination.



When an LED-type hand telephone set is provided, instruct the customer that during the time a TOUCH-TONE button is depressed the dial light will be extinguished and that the rotary-type dial light will flicker during the run down operation of the dial.



For tip party with identifying ground when the LED-type hand telephone sets are provided, it will be necessary to open the handset refer to Section 502-303-102. Make connections as shown in Table D.



If AC2, AC2P, or AD3 bases are provided and tip party with identifying ground is required, 220A, 220AM, 2220B, 2220BM, and 2220BMG hand telephone set cannot be used.

1.03 Refer to Table B for identification of $$\operatorname{TRIMLINE}^{\otimes}$$ components and associated apparatus.

1.04 If a 2220B or 2220BM hand telephone set is provided and a polarity guard is required,
 ▶a D-180984 Kit of Parts must be ordered separately and installed.
 ▶The 2220BMG hand telephone set has a polarity guard installed from the factory.

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The 2220C and 2226A has a built-in polarity guard.

- 1.05 The 220AL, 220AM, and 2220BM hand telephone sets are furnished with a 227D adapter for the H4DU (modular) handset cord.
- 1.06 The D-180824 Kit of Parts (for tip party identification) contains a terminal board and 227C adapter. The 227C adapter replaces the 227D adapter in the 220AL hand telephone set. The 227C adapter extends the tip and ring into the hand telephone set and provides two (2) spade-tipped leads to be connected to the network inside the hand telephone set. The terminal board mounts inside the telephone base. Refer to Fig. 7 and Table D for connection information. For additional information, refer to Section 502-303-102.
- 1.07 The D-180825 Kit of Parts (for tip party identification) contains a terminal board and a 282A (MD) or 282B adapter. The adapter is required in the 220C, 226A, 2226A, and later version of the 2220C hand telephone sets. This adapter provides two (2) additional wire spring contacts which are connected to two (2) spade-tipped leads to be connected to the network inside the hand telephone set. For additional information, refer to Section 502-303-102. The adapter is not required in the early version 2220C hand telephone sets only the terminal board is required. The terminal board is positioned inside the base over the handset cord jack inside the telephone base. Refer to Fig. 6 and Table D for connection information.

Note: In the early version 2220C handsets, remove the (W) or (Y) and (BK) spade-tipped leads from their stored location and connect to terminals A and B or 4, respectively.

- 1.08 A D-180891 Kit of Parts is available to modify 2220C and 2226A hand telephone sets and associated AC- and AD-type telephone bases for RFI in the on-hook position. Refer to Section 502-303-102 for handset wiring changes and Section 500-150-100 for wiring changes to the bases. Also refer to Section 500-150-100 for RFI in off-hook position.
- 1.09 If a D-180036 or 28A ringer isolator is used for ringer isolation or to extend the ringing

range of these sets, refer to Sections 501-375-100 and 501-375-101, respectively for connection information.

- 1.10 A 603A ringing extender can be used when only the ringing range is to be extended. Refer to Section 501-380-102 for connections.
- 1.11 If a dial light transformer is required (220A, 220AM, 2220B, or 2220BM only), use a 2012A or C transformer or equivalent 6-volt supply. For additional transformer information, refer to Section 501-136-100.
- 1.12 To silence ringer, rotate dust cover until openings line up with access holes in top of gong and remove stopscrew.
- 1.13 To provide dial light (220A, 220AM, 2220B, 2220BM, or 2220BMG only) with 1A1, 1A2, 6A, or 66B6 KTS, a 623T6 jack and D6AM mounting cord must be ordered separately. Only the AD2 and AD3 bases can be wired for this type service. Refer to Fig. 10 and Table G for connections.
- 1.14 To provide message waiting and dial light features without KTS (AC1, AC1P, AD1, and AD2 bases only) and 220A or 2220B hand telephone set, refer to Table I.
- 1.15 The 226A and 2226A hand telephone sets are for customer's with impaired hearing. These handsets provide up to 20 dB of receiver gain in the receiver circuit. For additional information, refer to Section 502-303-102.
- 1.16 A D-180719 Kit of Parts is available for use by customers with hearing aids which are equipped with telephone pickup features. The kit of parts provides a supplementary field used by the pickup feature of the hearing aid. This kit is intended for use only with the 220C, 226A, 2220C, and 2226A handsets. For additional information, refer to Section 502-303-102.
- 1.17 A D-180697 Kit of Parts [426N (MD) or 813BH diode] is required for 4-party full selective and 8-party semiselective ringing for all type bases. Refer to Table E for connections.

1.18 Special hospital telephone bases, coded AC2PH (wall) and AD3H (desk) are available for use in critical care areas. These bases are manufactured to meet National Electrical code and National Fire Protection Association Part 76B

requirements for hospital sets. For additional information, refer to Section 502-303-101.

1.19 Refer to Fig. 11 for AC2PH or AD3H telephone base connections. ●

TABLE A

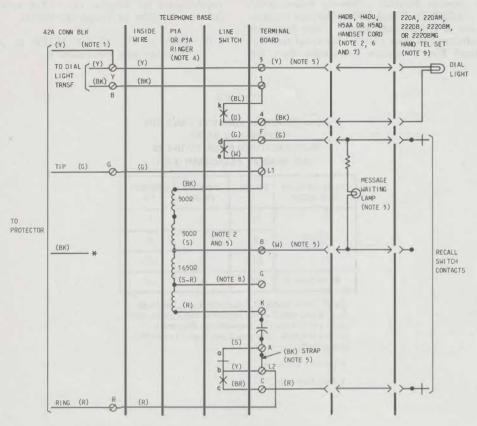
CONVERSION OF EARLY AC1 AND AD1 TELEPHONE BASES MANUFACTURED PRIOR TO 10-1-72 (SEE READ IN PARAGRAPH 1.01)

WIRE OR LEAD (SEE NOTE)	COLOR	REMOVE FROM	CONNECT
	BL	В	*
Ringer Lead	S	*	В
	BK†	G	L1
Strap from A	ВК	A	L2

Note: Early model AC1 and AD1 bases, the leads from pins 1 and 5 of the mounting and handset cord jacks are (W) and (Y), respectively. In current model, the leads from pins 1 and 5 are (Y) and (W), respectively.

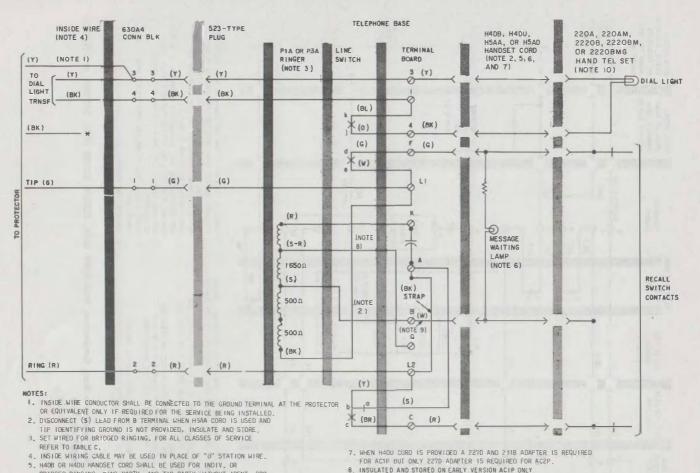
^{*} Insulate and store.

[†] AD1 base only.



- INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR THE SERVICE BEING INSTALLED.
- DISCONNECT (S) LEAD FROM TERMINAL B WHEN H5AA HANDSET CORD IS USED AND TIP PARTY IDENTIFYING GROUND IS NOT PROVIDED, INSULATE AND STORE.
- LAMP AND RESISTOR ARE PART OF HAND HANDSET CORD REQUIRED FOR MESSAGE WAITING FEATURE ON ACT BASE ONLY. IF 220AM OR 2220BM HAND TELEPHONE SET IS PROVIDED, THE 227-TYPE ADAPTER MUST BE REMOVED.
- SET WIRED FOR INDIVIDUAL OR BRIDGED SERVICE, FOR ALL CLASSES OF SERVICE REFER TO TABLE C.
- REFER TO READ IN 1,01 AND TABLE A FOR ADDITIONAL INFORMATION ON WIRING ARRANGEMENT AND LEAD COLORS OF ACI BASES MANUFACTURED PRIOR TO 10-1-72.
- H4DB OR H4DU HANDSET CORD SHALL BE USED FOR INDIV. OR BRIDGED RINGING, RING PARTY, AND TIP PARTY WITHOUT IDENT. GRD.
- HHEN HADU CORD IS PROVIDED A 227D AND 231B ADAPTER IS REQUIRED ON ACT BUT 227D ADAPTER ONLY IS REQUIRED ON AC2.
- B. INSULATED AND STORED ON EARLY VERSION ACT ONLY.
- 9. 220AM, 2220BM, AND 2220BMG ARE EQUIPPED FOR HADU HANDSET CORD.
- * INSULATED AND STORED

Fig. 1—♥AC1 (MD) or AC2 (MD) Telephone Base, Connections, With 220A (MD), 220AM, 2220B (MD), 2220BM, or 2220BMG Hand Telephone Set♥



9. (W) LEAD PROVIDED IN ACIP BASE ONLY.

* INSULATED AND STORED.

10, 220AM, 2220BM, AND 2220BMG ARE EQUIPPED FOR H4DU HANDSET CORD,

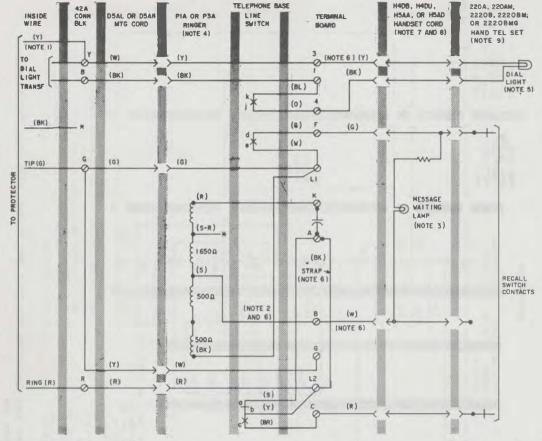
Fig. 2—♦AC1P or AC2P Telephone Base, Connections, With 220A (MD), 220AM, 2220B (MD), 2220BM, or 2220BMG Hand Telephone Set♠

BRIDGED RINGING, RING PARTY, AND TIP PARTY WITHOUT IDENT, GRD.

MESSAGE WAITING FEATURE ON AC1P BASE ONLY. IF 220AM OR 2220BM HAND

6. LAMP AND RESITOR ARE PART OF H5AD HANDSET CORD REQUIRED FOR

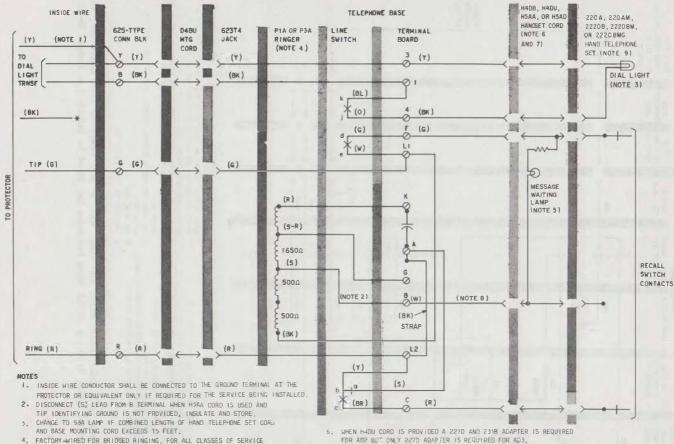
TELEPHONE SET IS PROVIDED, THE 227-TYPE ADAPTER MUST BE REMOVED.



- NSIDE HIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR THE SERVICE BEING INSTALLED.
- DISCONNECT (5) LEAD FROM TERMINAL B WHEN H5AA HANDSET CORD IS USED AND TIP PARTY IDENTIFYING GROUND IS NOT PROVIDED, INSULATE AND STORE
- LAMP AND RESISTOR ARE PART OF H5AO HANDSET CORD REQUIRED FOR MESSAGE WAITING FEATURE, IF 220AM OR 2220 BM HAND TELEPHONE SET IS PROVIDED, THE 227-TYPE ADAPTER MUST BE REMOVED.
- 4. SET WIRED FOR INDIVIDUAL OR BRIDGED SERVICE, FOR ALL CLASSES OF SERVICE REFER TO TABLE C.

- CHANGE TO 53A LAMP IF COMBINED LENGTH OF HAND TELEPHONE SET CORD AND (ADI BASE) MOUNTING CORD EXCEEDS 15 FEET.
- REFER TO READ IN 1,01 AND TABLE A FOR ADDITIONAL INFOR-MATION OR WIRING ARRANGEMENT AND LEAD COLORS OF ADI BASES MANUFACTURED PRIOR TO 10-1-72.
- 7. H4DB OR H4DU CORD SHALL BE USED FOR INDIVIDUAL OR BRIDGED RINGING, RING PARTY AND TIP PARTY WITHOUT IDENT. GRD.
- WHEN HADU CORD IS PROVIDED A 2270 AND 231B ADAPTER: IS REQUIRED.
- 9. 220AM, 2220BM, AND 2220BMG ARE EQUIPPED FOR H4DU HANDSET CORD.
- * INSULATED AND STORED

Fig. 3—₱AD1 (MD) Telephone Base, Connections, With 220A (MD), 220AM, 2220B (MD), 2220BM, or 2220BMG Hand Telephone Set♥



TELEPHONE SET IS PROVIDED, THE 227-TYPE ADAPTER MUST BE REMOVED

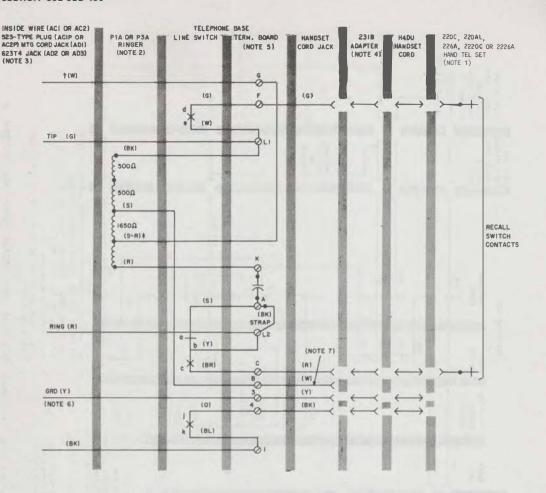
5. LAMP AND RESISTOR ARE PART OF HEAD HANDSET CORD REQUIRED FOR

MESSAGE WAITING FEATURE (AD2 ONLY). IF 220AM OR 2220BM HAND

- FOR AD2 BUT ONLY 2270 ADAPTER IS REQUIRED FOR AD3.
- 7. HADB OR HADU HANDSET CORD SHALL BE USED FOR INDIVIDUAL OR BRIDGED RINGING, RING PARTY AND TIP PARTY WITHOUT IDENT. GRD.
- 8. (W) LEAD PROVIDED IN AD2 BASE ONLY.
- 220AM, 2220BM, AND 2220BMG ARE EQUIPPED FOR HADU HANDSET CORD.
- * INSULATED AND STORED

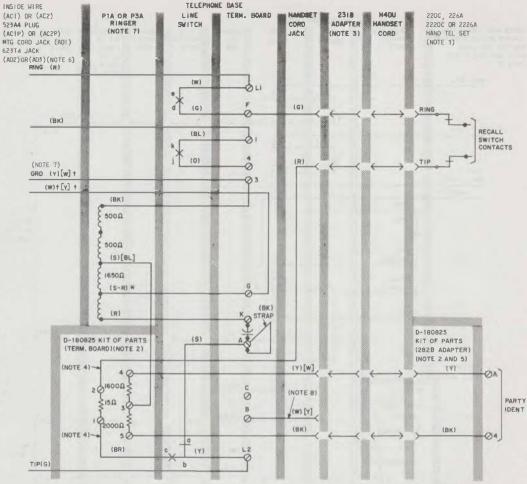
Fig. 4—PAD2 or AD3 Telephone Base, Connections, With 220A (MD), 220AM, 2220B (MD), 2220BM, or 2220BMG Hand Telephone Set

REFER TO TABLE C.



- DIAL LIGHT TRNSF NOT REQUIRED. DIAL LIGHTING IS PROVIDED BY LIGHT EMITTING DIGGES (LED) IN THE HAND TEL SET WHICH IS POWERED BY CO BATTERY OVER THE INCOMING LINE.
- WIRED FOR INDIVIDUAL OR BRIDGED RINGING, FOR ALL CLASSES OF SERVICE REFER TO TABLE D.
- 3. FOR CONNECTING BLOCK INFORMATION REFER TO APPROPRIATE TABLE.
- 4. 231B ADAPTER NOT REQUIRED ON AC2, AC2P, OR AD3 BASES.
- 5. REFER TO READ IN 1.01 AND TABLE A FOR ADDITIONAL INFORMATION ON WIR ING ARRANGEMENT AND LEAD COLORS OF AC1 AND AD1 BASES MANUFACTURED PRIOR TO 10-1-72.
- 6. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR THE SERVICE BEING INSTALLED.
- (W) LEAD PROVIDED IN AC1(MD), AC2(MD), AC1P, AD1(MD). AND AD2 BASES ONLY.
- † AD1 BASE ONLY
- # INSULATE AND STORE ON AD1 ONLY

Fig. 5—♦AC1 (MD), AC2 (MD), AC1P, AC2P, AD1 (MD), AD2, or AD3 Telephone Base, Connections, With 220C, 220AL, 226A, 2220C, or 2226A Hand Telephone Set, Wired for Individual or Bridged Ringing €



- () CURRENT COLOR CODE
- | | EARLY COLOR CODE
- * INSULATED AND STORED (ADI ONLY)
- T ADI ONLY

- 1. DIAL LIGHT TRNSF NOT REQUIRED. DIAL LIGHTING IS PROVIDED BY LIGHT EMITTING DIODES (LED) IN THE HAND TEL SET WHICH IS POWERED BY CO BATTERY OVER THE INCOMING LINE.
- REQUIRES OPENING HANDSET AND BASE TO ADD D-180825 KIT OF PARTS

- 251B ADAPTER NOT REQUIRED WHEN AC2, AC2P OR AD3 BASES ARE PROVIDED.
- 4. THESE CONNECTIONS ARE REQUIRED ONLY WHEN THE 2220C OR 2226A HAND TELEPHONE SET IS PROVIDED.
- IF A 2220C (EARLY VERSION) IS PROVIDED THE TERMINAL BOARD ONLY OF THE D~1B0B25 KIT OF PARTS IS REQUIRED,
- REFER TO TABLE D FOR CONNECTING BLOCK AND OTHER CLASSES OF SERVICE CONNECTIONS.
- 7. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR THE SERVICE BEING INSTALLED
- B. (W) [Y] LEAD NOT PROVIDED IN ACZP AND AD3 BASES.

Fig. 6—♥AC1 (MD), AC2 (MD), AC1P, AC2P, AD1 (MD), AD2, or AD3 Telephone Base With 220C, 226A, 2220C, or 2226A Hand Telephone Set and D-180825 Kit of Parts (Tip Party Identification)

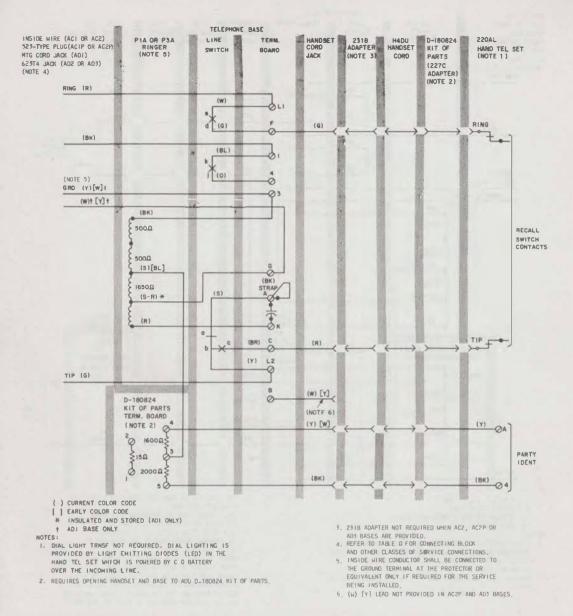
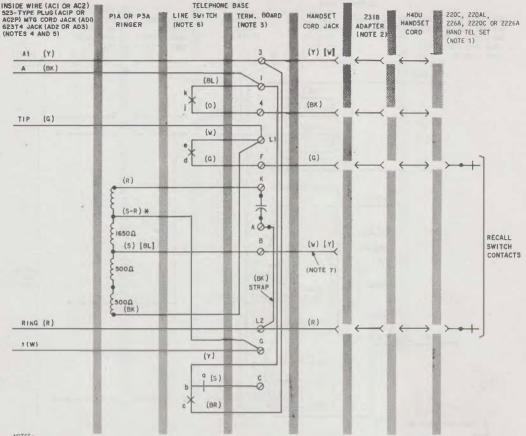
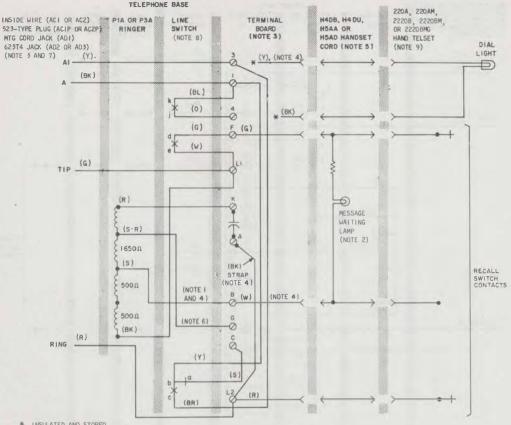


Fig. 7—♦AC1 (MD), AC2 (MD), AC1P, AC2P, AD1 (MD), AD2, or AD3 Telephone Base With 220AL Hand Telephone Set and D-180824 Kit of Parts (Tip Party Identification)♦



- 1. DIAL LIGHT TRANSFORMER NOT REQUIRED. DIAL LIGHTING IS PROVIDED BY LIGHT EMITTING DIODES (LED) IN THE HAND TELEPHONE SET WHICH IS POWERED BY C.O BATTERY OVER THE INCOMING LINE.
- 2. THE 231B ADAPTER NOT REQUIRED ON AC2, AC2P, OR AD3 BASE
- 3. SET FACTORY WIRED FOR INDIVIDUAL OR BRIDGED SERVICE. FOR KTS SERVICE REFER TO TABLE H.
- 4. REFER TO READ IN 1,01 AND TABLE A FOR ADDITIONAL INFORMATION ON WIRING ARRANGEMENT AND LEAD COLORS OF AC1 AND AD1 BASES MANUFACTURED PRIOR TO 10-1-72.
- 5. FOR CONNECTING BLOCK INFORMATION, REFER TO TABLE D.
- 6. TO PREVENT FALSE HOLD CONDITION WHEN GOING UN-HOOK, THE TIP AND RING CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE "A" LEAD CONTACTS. (FIELD ADJUSTMENT OF LINE SWITCH NOT RECOMMENDED).
- 7. (W) [Y] LEAD NOT PROVIDED IN AC2P AND AD3 BASES.
- () CURRENT COLOR CODE
- [] EARLY COLOR CODE
- * INSULATED AND STORED (AD1 ONLY).
- † AD1 BASE ONLY

Fig. 8-PAC1 (MD), AC2 (MD), AC1P, AC2P, AD1 (MD), AD2, or AD3 Telephone Base Connections, Wired for 1A1, 1A2, 6A, or 6B KTS With 220C, 220AL, 226A, 2220C, or 2226A Hand Telephone Set●



* INSULATED AND STORED

- 1. WHEN HEAN HANDSET CORD IS PROVIDED, DISCONNECT (S) LEAD FROM TERMINAL B, INSULATE AND STORE.
- LAMP AND RESISTOR ARE PART OF H5AD HANDSET CORD REQUIRED FOR MESSAGE WAITING FEATURE ON AC1 BASE ONLY.
- SET FACTORY WIRED FOR INDIVIDUAL OR BRIDGED SERVICE.
 FOR KTS SERVICE REFER TO TABLE F.
- 4. REFER TO READ IN 1.01 AND TABLE A FOR ADDITIONAL INFORMATION ON WIRING ARRANCEMENT AND LEAD COLORS OF ACI AND ADJ BASES MANUFACTURED PRIOR TO 10-1-72. (W) LEAD NOT PROVIDED IN ACZP AND ADJ BASES.
- 5. WHEN H4DU CORD IS PROVIDED A 227D AND 231B ADAPTER
 IS REQUIRED ON ACT BUT 227D ADAPTER ONLY IS REQUIRED ON ACC.
- 6. INSULATED AND STORED ON EARLY VERSION ACT AND ALL ADT BASES.
- 7. FOR CONNECTING BLOCK INFORMATION, REFER TO TABLE C.
- B. TO PREVENT FALSE HOLD CONDITION WHEN GOING ON-HOOK, THE TIP AND RING CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE "A" LEAD CONTACTS. (FIELD ADJUSTMENT OF LINE SWITCH NOT RECOMMENDED).
- 9. 220AM, 2220BM, AND 2220BMG ARE EQUIPPED FOR H4DU HANDSET CORD.

Fig. 9—♦AC1 (MD), AC2 (MD), AC1P, AC2P, AD1 (MD), AD2, or AD3 Telephone Base Wired for 1A1, 1A2, 6A, or 6B KTS Without Dial Light Using 220A (MD), 220AM, 2220B (MD), 2220BM or 2220BMG Hand Telephone Set●

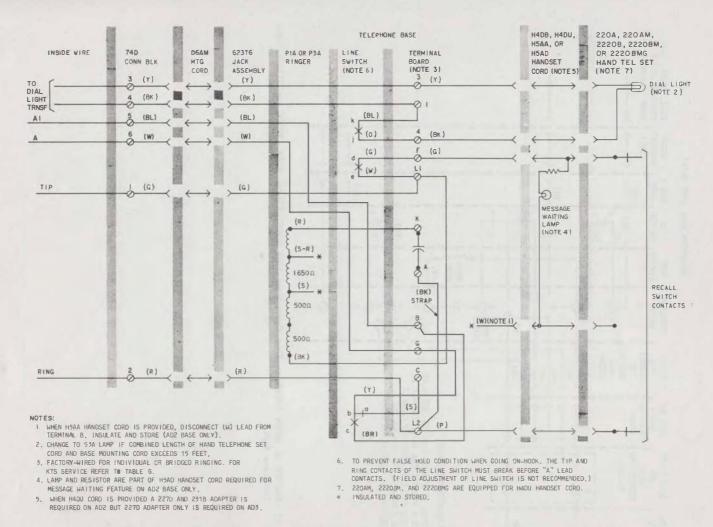


Fig. 10—♥AD2 or AD3 Telephone Base Wired for 1A1, 1A2, 6A, or 6B KTS With Dial Light Using 220A (MD), 220AM, 2220B (MD), 2220BM, or 2220BMG Hand Telephone Set♥

TELEPHONE BASE (SEE NOTE)

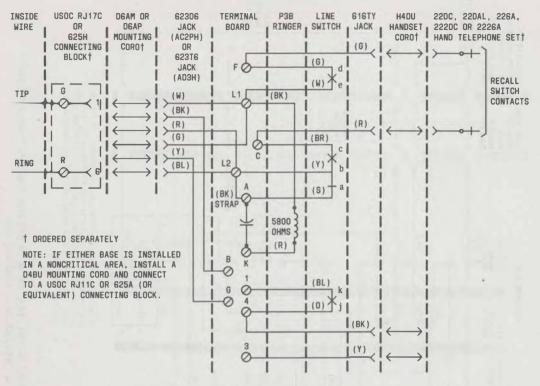


Fig. 11—♦AC2PH or AD3H Telephone Base Connections With 220C, 220AL, 226A, 2220C, or 2226A Hand Telephone Set♦

♦ TABLE B ♦

IDENTIFICATION OF TRIMLINE COMPONENTS AND ASSOCIATED APPARATUS (NOTE 1)

HAND TEL SET CODE	METHOD OF IDENT	TEL BASE CODE	WALL JACK OR MTG CORD CODE	HANDSET CORD CODE	BASE HANDSET JACK ADAPTER CODE	HAND TEL SET JACK ADAPTER CODE	METHOD OF PROVIDING TIP PARTY IDENT. GRD	
	Large Hand-	AC1, AC1P	630A (AC1P)					
220A	set Cord Jack With	AD1	D5AL	H4DB None	H4DB None	None	None	H5AA Cord
or	Code	AD2	D4BU					
2220B	Stenciled Inside on	AC2, AC2P	630A (AC2P)	· · · · · · · · · · · · · · · · · · ·	231B (AD2)	227D	None	
	Shell	AD2, AD3	D4BU	H4DU	231B (AD2)	2270	(Note 3)	
	227D	AC1, AC1P	630A (AC1P)					
220AM	Adapter in Handset	AD1	D5AL		231B	227D†	(Note 4)	
or 2220BM	Jack of a	AD2	D4BU	H4DU				
	220A or 2220B	AC2, AC2P	630A (AC2P)				None	
	22205	AD2, AD3	D4BU		None	227D†	(Note 3)	
	(T) A 1 A	AC1, AC1P	630A (AC1P)					
	The Adapter for the	AD1	D5AL	H4DU				
2220BMG	Handset	AD2	D4BU		None	None	None	
2220BMG	Cord is Stamped	AC2, AC2P	630A (AC2P)			(Note 5)	(Note 3)	
	With a "G"	AD2, AD3	D4BU					
	LED Printed	AC1, AC1P	630A (AC1P)					
	Under	AD1	D5AL		231B		D-180824	
220AL	Fingerstop. 227D Adap	AD2	D4BU	H4DU		227D*	Kit	
ZZOAD	ter in	AC2, AC2P	630A (AC2P)		231B (AD2)		Parts	
	Handset Jack	AD2, AD3	D4BU		231D (AD2)			
	Juni	AC2PH, AD3H	D6AM, D6AP		None		None (Note 3)	
	(4) Wire	AC1, AC1P	630A (AC1P)					
	Springs in Handset	AD1	D5AL		231B		D-180825 Kit	
2220C (Early	Jack Square	AD2	D4BU	H4DU		None	of	
Version)	Buttons (2220C)	AC2, AC2P	630A (AC2P)	n4D0	0015 (150)	None	Parts Note 2	
	(Mini-	AD2, AD3	D4BU		231B (AD2)			
	modular)	AC2PH, AD3H	D6AM, D6AP		None		None (Note 3)	
220C.	LED Printed	AC1, AC1P	630A (AC1P)					
226A,	under Finger- stop (220C	AD1	D5AL		231B		D-180825	
2220C (Late	and 226A) Square	AD2	D4BU	H4DU		None	Kit	
Version)	Buttons on	AC2, AC2P	630A (AC2P)		231A (AD2)	110110	Parts	
or 2226A	Dial (2220C and 2226A)	AD2, AD3	D4BU		231A (AD2)		Note 2	
	Minj- modular	AC2PH, AD3H	D6AM, D6AP		None		None (Note 3)	

Note 1. All TRIMLINE components and apparatus are ordered separately.

Note 2. The 2220C (early version) do not require the 282B adapter.

Note 3. This combination of components can not be wired for tip party identification.

Note 4. 227D and 231B adapters must be removed for tip party identification and H5AA handset cord provided.

Note 5. This adapter is part of polarity guard assembly.

* Factory installed.

† Field or service center installed.

TABLE C
CONNECTIONS FOR INDIVIDUAL AND 2-PARTY SERVICE WITH 220A, 220AM, 2220BM, 2220BM, AND 2220BMG
HAND TELEPHONE SETS (SEE READ PARAGRAPH 1.01) (NOTE 2) (SEE TABLE B)

					TIP PARTY		
WIRE OR LEAD	LEAD DESIG	COLOR	OR BRIDGED (NOTE 1)	RING PARTY (NOTE 1)	NO IDENT GRD (NOTE 1)	WITH IDENT GRD*	
	Tip	G	G	G	G	G	
Inside Wire at 42A or 625-Type Conn. Block	Ring	R	R	R	R	R	
(AD1, AD2, or AD3)	STA GRD and TRNSF	Y	Y	Y	Y	Y	
	TRNSF	ВК	В	В	В	В	
The second	Tip	G	1	1	1	1	
Inside Wire at 630A	Ring	R	2	2	2	2	
Conn. Block (AC1P or AC2P)	STA GRD and TRNSF	Y	3	3	3	3	
	TRNSF	ВК	4	4	4	4	
	Tip	G	L1	L1	L2	L2	
side Wire at Term.	Ring	R	L2	L2	L1	L1	
Board (AC1 or AC2)	STA GRD and TRNSF	Y	3	3	3	3	
	TRNSF	BK	1	1	1	1	
Mtg Cord Jack or 523-Type	Tip	G	L1	L1	L2	L2	
Plug Leads at Term. Board (AD1, AD2,	Ring	R	L2	L2	L1	L1	
AD3, AC1P, or AC2P)	TRNSF	Y	3	3	3	3	
	TRNSF	ВК	1	1	1	1	
Ringer (Note 1)	-	ВК	L1	3	3	3	
Strap from A of Term. Bd.		ВК	L2	L2	L2	A	
	Tip	G	F	F	С	С	
Handset Cord Jack Leads in Base (2220B and	Ring	R	С	С	F	F	
2220BM only)	TRNSF	Y	3	3	3	3	
	TRNSF	BK	4	4	4	4	

Note 1: Disconnect, insluate and store (S) lead from terminal B when H5AA handset cord is used and tip party identifying ground is not provided.

Caution: Do not store spade-tipped leads under terminal board mounting screws.

Note 2: AC2, AC2P, and AD3 telephone bases can not be used with 220A, 220AM, 2220BM, 2220BMG hand telephone sets for this service.

^{* 220}AM, 2230BM, and 2220BMG handsets cannot be used for tip party with identifying ground.

TABLE D4

CONNECTIONS FOR INDIVIDUAL AND 2-PARTY SERVICE WITH 220C, 220AL, 226A, 2220C, AND 2226A HAND TELEPHONE SETS (SEE READ PARAGRAPH 1.01) (SEE TABLE B)

						TIP	PARTY	
							WITH IDENT GRD	
WIRE OR LEAD (NOTE 1)	LEAD DESIG	COLOR	INDIV OR BRIDGED	RING PARTY	NO IDENT GRD	BASE TERM BD.	TERM. BD. D-180824 (FIG. 7) D-180825 (FIG. 6)	HANDSET TERM. (NOTES 2, 4, 5 AND 6)
Inside Wire at	Tip	G	G	G	G	G†	14-	-
42 A or 625-Type	Ring	R	R	R	R	R†	-	-
(AD1, AD2, or AD3)	GRD	Y	Y	Y	Y	Y†	-	-
	-	BK	В	В	В	B†	-	-
	Tip	G	1	1	1	1†	·	- 3
Inside Wire at 630A Conn Blk	Ring	R	2	2	2	2†	both o	To the last
(AC1P or AC2P)	GRD	Y	3	3	3	3†	- 1	
-	-	BK	4	4	4	4†	-	72-15-17-2
	Tip	G	L1	L1	L2	L2	-	
Inside Wire at Term. Board	Ring	R	L2	L2	L1	L1		-
(AC1 or AC2)	GRD	Y	3	3	3	3		-
	-	BK	1	1	1	1	-	OF-1
Mi-C- dil-d-	Tip	G	L1	L1	L2	L2	-	-
Mtg Cord Jack or 523-Type Plug Leads at Term.	Ring	R	L2	L2	L1	L1	-	-
Board (AD1, AD2,	GRD	Y	3	3	3	3	-	_
AD3, AC1P, AC2P)	-	ВК	1	1	1	1	- 1	
Ringer		S or BL (Note 2)	В	В	В	-	3	-
Teniger		BK	L1	3	3	3	-	
Line Switch	-	BR	С	С	С	(220C) C(220AL) (226A)	1 (2220C) (2226A)	1
	Tip	G	F	F	F	F		-
Handset Cord, Jack Leads in	Ring	R	С	С	С	(220C) C(220AL) (226A)	2 ^(2220C) (2226A)	
Base	PTY Ident	Y or W (Note 2)	3	3	3		4	11-11
	PTY Ident	ВК	4	4	4		5	
Strap From A of Term. Bd.	Strap	BK	L2	L2	L2	A		

TABLE D (Contd)

CONNECTIONS FOR INDIVIDUAL AND 2-PARTY SERVICE WITH 220C, 220AL, 226A, 2220C, AND 2226A HAND TELEPHONE SETS (SEE READ PARAGRAPH 1.01) (SEE TABLE B)

	THE PERSON NAMED IN					TIP	PARTY	
	and the same						WITH IDENT G	RD
WIRE OR LEAD (NOTE 1)	LEAD DESIG	COLOR	INDIV OR BRIDGED	RING PARTY	NO IDENT GRD	BASE TERM BD.	TERM. BD. D-180824 (FIG. 7) D-180825 (FIG. 6)	HANDSET TERM. (NOTES 2, 4, 5 AND 6)
	Tip	G		-	-	-	-	-
Handard Cand	Ring	R	-	-	-	-		-
Handset Cord Jack Leads in Handset (Note 2)	PTY Ident	Y or W	*	*	*	-		A
	PTY Ident	ВК	*	*	*		-	B or 4

- Note 1. If AC1, AC1P, AD1 or AD2 bases are provided, a 231B adapter is required (ordered separately).
- Note 2. Handsets must be opened to wire for tip party with identifying ground, refer to Section 502-303-102.
- Note 3. For bases dated prior to 10-1-72 see READ in 1.01 and note under Table A.
- Note 4. The D-180824 Kit of Parts (ordered separately) is used with the 220AL hand telephone set only.
- Note 5. The terminal board only of the D-180825 Kit of Parts (ordered separately) is used with the early version 2220C hand telephone sets.
- Note 6. The 282B adapter and terminal board of the D-180825 Kit of Parts is required for the 220C, 226A, 2226A, and later version of 2220C hand telephone sets.

Caution: Do not store spade-tipped leads under terminal board mounting screw.

- * Insulated and stored, 2220C (early version only).
- † Connecting block terminals.

♦ TABLE E ♦

CONNECTIONS FOR 4-PARTY FULL SELECTIVE OR 8-PARTY SEMISELECTIVE RINGING USING
D-180697 KIT OF PARTS (SEE READ IN PARAGRAPH 1.01)

WIRE O	R LEAD	LEAD DESIG	COLOR	-RING	-TIP	+RING	+TIP
		Tip	G	G	G	G	G
Inside Wire at 4	2A or 625-Type	Ring	R	R	R	R	R
Inside Wire at 42A or 625-Type Conn Blk (AD1, AD2, AD3)		STA GRD and/or TRNSF	Y	Y	Y	Y	Y
		TRNSF or Spare	BK	В	В	В	В
		Tip	G	1	1	1	1
Inside Wire at 6	30A Conn Blk	Ring	R	2	2	2	2
(AC1P, AC2P)		STA GRD and/or TRNSF	Y	3	3	3	3
		TRNSF or Spare	BK	4	4	4	4
		Tip	G	L1	L1	L1	L1
Inside Wire at Term. Board		Ring	R	L2	L2	L2	L2
(AC1, AC2)		TRNSF or STA GRD	Y [W]	3	3	3	3
		TRNSF or Spare	BK	1	1	1	1
Mtg Cord Jack or 523-Type Plug Leads at Term. Board		Tip	G	L1	L1	L1	L1
		Ring	R *	L2	L2	L2	L2
	03, AC1P, AC2P)	TRNSF or STA GRD	Y [W]	3	3	3	3
		TRNSF or Spare	BK	1	1	1	1
			R	3	3	L2	L1
			BK	K	K	K	K
Ringer			S	В	В	В	В
			S-R	G	G	G	G
	426N	†		L2	L1	3	3
D-1806 9 7	Diode (MD)	‡		G	G	G	G
Kit of Parts	813BH	Unstriped End		L2	L1	3	3
	Diode	Striped End		G	G	G	G
Strap From A			BK	3	3	L2	L1
Line Switch			S	*	*	*	*

Caution: Do not store spade tipped leads under terminal board mounting screws

^[] early model bases (Dated prior to 10-1-72)

^{*} Insulate and store.

[†] Lead on Flanged (Gold) base end.

Lead on Knob end (housing tip).

♦ TABLE F ♦

CONVERSION FOR 1A1, 1A2, 6A, AND 6B KTS WITHOUT DIAL LIGHT USING 220A, 220AM, 2220B, 2220BM OR 2220BMG HAND TELEPHONE SET (FIG. 9) (SEE READ IN PARAGRAPH 1.01)

	COLOR	TERMINAL BOARD				
WIRE OR LEAD		REMOVE FROM	CONNECT			
Line Switch	BR	С	3			
	S	A	С			
	Y	L2	1			
Hand Tel	R	С	L2			
Set Cord Jack in Base	Y	3	*			
	вк	4	*			

^{*} Insulate and store.

TABLE G 4

CONVERSION OF AD2 OR AD3 BASES FOR 1A1, 1A2, 6A OR 6B KTS WITH DIAL LIGHT USING 220A, 220AM, 2220B, 2220BM OR 2220BMG HAND TELEPHONE SET (FIG. 10) (SEE READ IN PARAGRAPH 1.01)

AND THE REAL PROPERTY.	OF 17				ASE BOARD
OR LEAD	LEAD DESIG	COLOR	74D CONN BLK TERM. BD	REMOVE FROM	CONNECT
ri i reini	Tip		1		
	Ring		2		
Inside Wire at 74D	TRNSF		3		
Conn Bik	TRNSF		4		
	A		6		
	A1		5		
Yes maken		R			L2
623T6 Jack		G			L1
		Y			3
(Note)	Delte	вк			1
		BL			В
		w			G
	A1	BR	177	C	В
Line Switch	A	Y		L2	G
		S		A	С
Ringer		S		В	*
	1 1 1 1 1 1 1	S-R		G	*
Strap		ВК		A	L2
Handset Cord Jack		R		С	L2
in Base		W		В	†

Note: The 623T6 jack and D6AM mounting cord must be ordered separately.

^{*} Insulate and store.

[†] Insulate and store (AD2 only).

♦ TABLE H ♦ CONVERSION FOR 1A1, 1A2, 6A AND 6B KTS USING 220C, 220AL, 226A, 2220C, OR 2226A HAND TELEPHONE SET (FIG. 8) (SEE READ IN PARAGRAPH 1.01)

		TERMINAL BOARD		
WIRE OR LEAD	COLOR	REMOVE FROM	CONNECT	
Line Switch	BR	С	3	
	S	A	С	
	Y	L2	1	
Handset Cord Jack in Base	R	С	L2	

TABLE I

CONNECTIONS FOR MESSAGE WAITING LAMP AND DIAL LIGHT FEATURES FOR NONKEY SYSTEM APPLICATION (220A AND 2220B ONLY) (SEE READ IN PARAGRAPH 1.01)

	1	TERMINAL BOARD		
WIRE OR LEAD	COLOR	REMOVE FROM	CONNECT	
Handset Cord Jack Leads	G	F	L1	
(Note)	W	В	L2	

Note: Install H5AD handset cord in AC1, AC1P, AD1, or AD2.

♦ TABLE J ♦

CONVERSION FOR DATA APPLICATIONS FOR 220A, 220AM, 2220B, 2220BM, AND 2220BMG HAND TELEPHONE SETS (SEE READ IN PARAGRAPH 1.01)

			TERMINAL BOARD		
WIRE OR LEAD	COLOR	REMOVE FROM	CONNECT		
Handset Cord Jack Leads	Y	3	*		
	BK	4	*		

^{*} Insulate and store.