

SERVICE

AC- AND AD-TYPE TELEPHONE BASES WITH 220- AND 2220-TYPE HAND TELEPHONE SETS

1. GENERAL

1.01 This section provides connection information for the AC1 (MD), AC1P, AC2 (MD), AC2P, AD1 (MD), AD2, and AD3 telephone bases and associated 220A (MD), 220B (MD), 220AL, 220C, 2220B, and 2220C hand telephone sets.



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:

- Add information on 220C and 220AL hand telephone sets and 227D adapter
- Add information on D-180824 and D-180825 Kit of Parts
- Show AC1, AC2, and AD1 telephone bases and 220A and 220B hand telephone sets MD
- Remove information on 1220A (MD) hand telephone set
- Remove information on D-180625 Kit of Parts which is rated MD.



The 220B, 220C, 220AL, and 2220C hand telephone sets are equipped with light emitting diodes (LED) for dial illumination. The 220C and 2220C are also equipped with a mini-modular handset cord jack and the 220AL with a 227D-29 adapter which accepts the modular H4DU handset cord. No external AC power source is required for dial

illumination. Power is supplied by CO battery over the incoming line. For tip party with identifying ground it will be necessary to open handset and make connections as shown in Table D. To accomplish this, first remove the small cover located above the dial (use KS-21107L1 tool), then carefully back out the two (2) exposed screws. The cover will then lift off.



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

1.03 Refer to Table B for identification of Light Emitting Diode (LED) equipped handsets and associated apparatus.

1.04 If a 2220B hand telephone set is provided and a polarity guard is required, a D-180788 Kit of Parts must be ordered separately and installed in the base. See Table J for connections. The 2220C has a built-in polarity guard and does not require an external polarity guard assembly.

1.05 The 227D adapter converts 220AL hand telephone sets to accept an 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

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inside the telephone base. Refer to Table D for connection information.◆

1.07 ◆The D-180825 Kit of Parts (for tip party identification) contains a terminal board and a 282A adapter. The adapter is required in the later version of the 220C and 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. The adapter is not required in the 220B and early version 2220C hand telephone sets. The terminal board mounts inside the telephone base. Refer to Table D for connection information.◆

1.08 ◆If a D-180036 or 28A ringer isolator is required, refer to Sections 501-375-100 or 501-375-101, respectively.◆

1.09 ◆To silence ringer, rotate dust cover until openings line up with access holes in top of gong and remove stopscrew.◆

1.10 ◆To provide dial light (220A or 2220B only) with 1A1, 1A2, or 6A KTS, a 623P6 jack and D6AM mounting cord (ordered separately) are required for the AD2 and AD3 bases. Refer to Fig. 10 and Table H for connections.◆

1.11 ◆If a dial light transformer is required (220A or 2220B only), use a 2012A or C transformer. For additional transformer information, refer to Section 501-136-100.◆

TABLE A

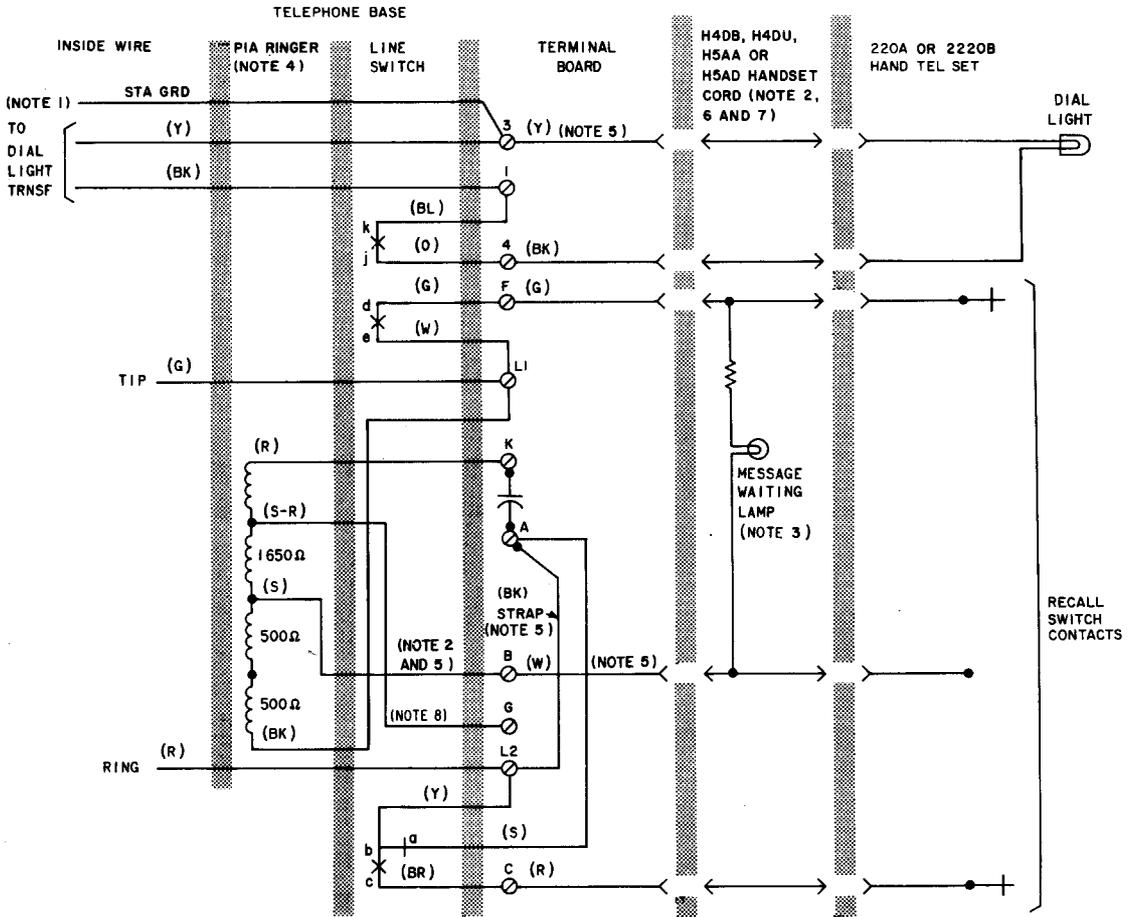
CONVERSION OF EARLY AC1 AND AD1
TELEPHONE BASES
MANUFACTURED PRIOR TO 10-1-72
(SEE READ IN 1.01)

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

* Insulate and store.

† AD1 base only.

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.



NOTES:

1. STATION GROUND SHALL BE PROVIDED FOR ALL INSTALLATIONS; EVEN WHEN NOT REQUIRED FOR THE SERVICE INITIALLY PROVIDED.
2. DISCONNECT (S) LEAD FROM TERMINAL B WHEN H5AA HANDSET CORD IS USED AND TIP PARTY IDENTIFYING GROUND IS NOT PROVIDED, INSULATE AND STORE.
3. LAMP AND RESISTOR ARE PART OF H5AD HANDSET CORD REQUIRED FOR MESSAGE WAITING FEATURE ON AC1 BASE ONLY.
4. SET WIRED FOR INDIVIDUAL OR BRIDGED SERVICE, FOR ALL CLASSES OF SERVICE REFER TO APPROPRIATE CONNECTION TABLE.
5. REFER TO READ IN 1,01 AND TABLE A FOR ADDITIONAL INFORMATION ON WIRING ARRANGEMENT AND LEAD COLORS OF AC1 BASES MANUFACTURED PRIOR TO 10-1-72.
6. H4DB OR H4DU HANDSET CORD SHALL BE USED FOR INDIV. OR BRIDGED RINGING, RING PARTY, AND TIP PARTY WITHOUT IDENT. GRD.
7. WHEN H4DU CORD IS PROVIDED A 227D AND 231B ADAPTER IS REQUIRED ON AC1 BUT 227D ADAPTER ONLY IS REQUIRED ON AC2.
8. INSULATED AND STORED ON EARLY VERSION AC1 ONLY.

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

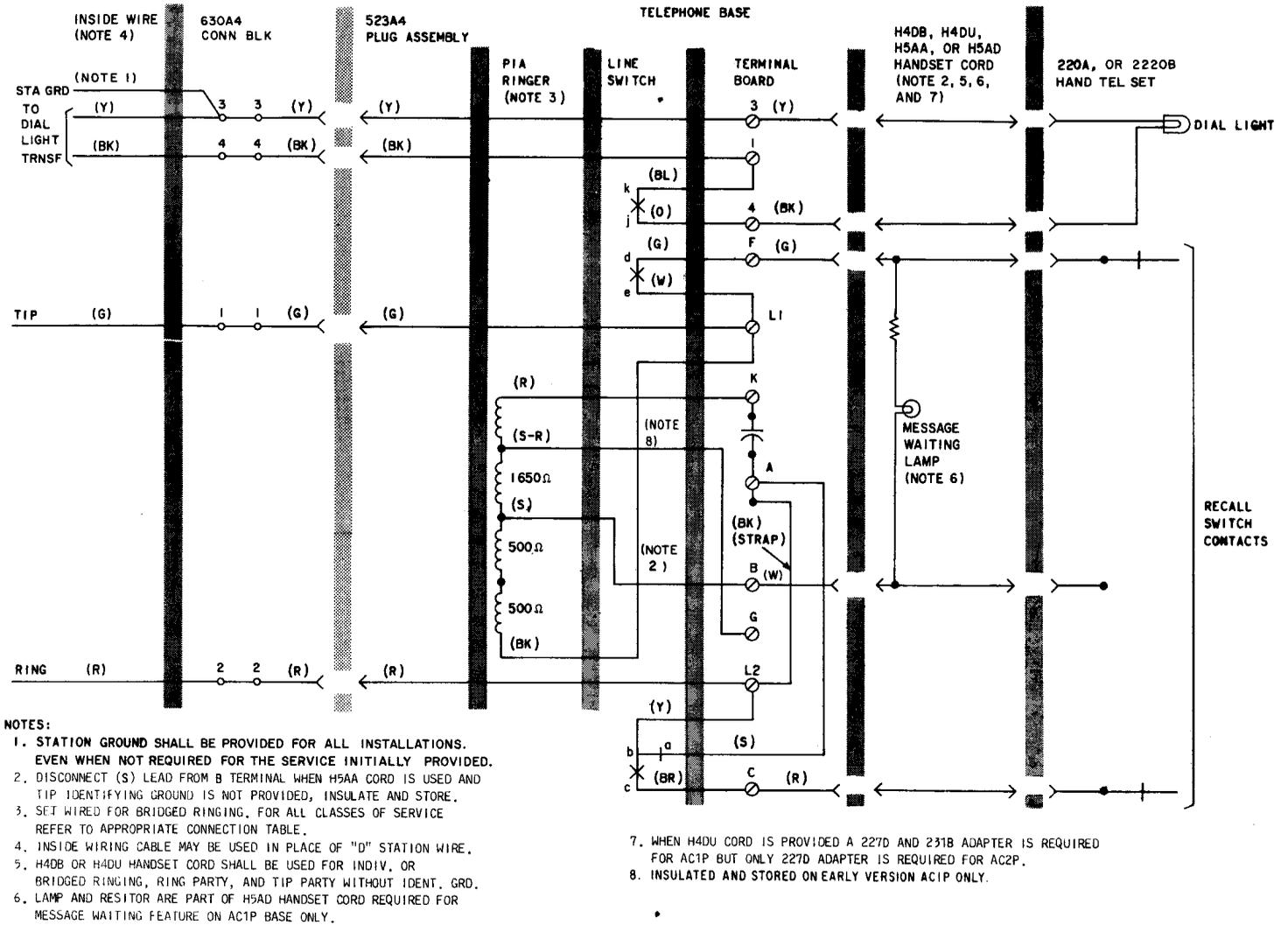
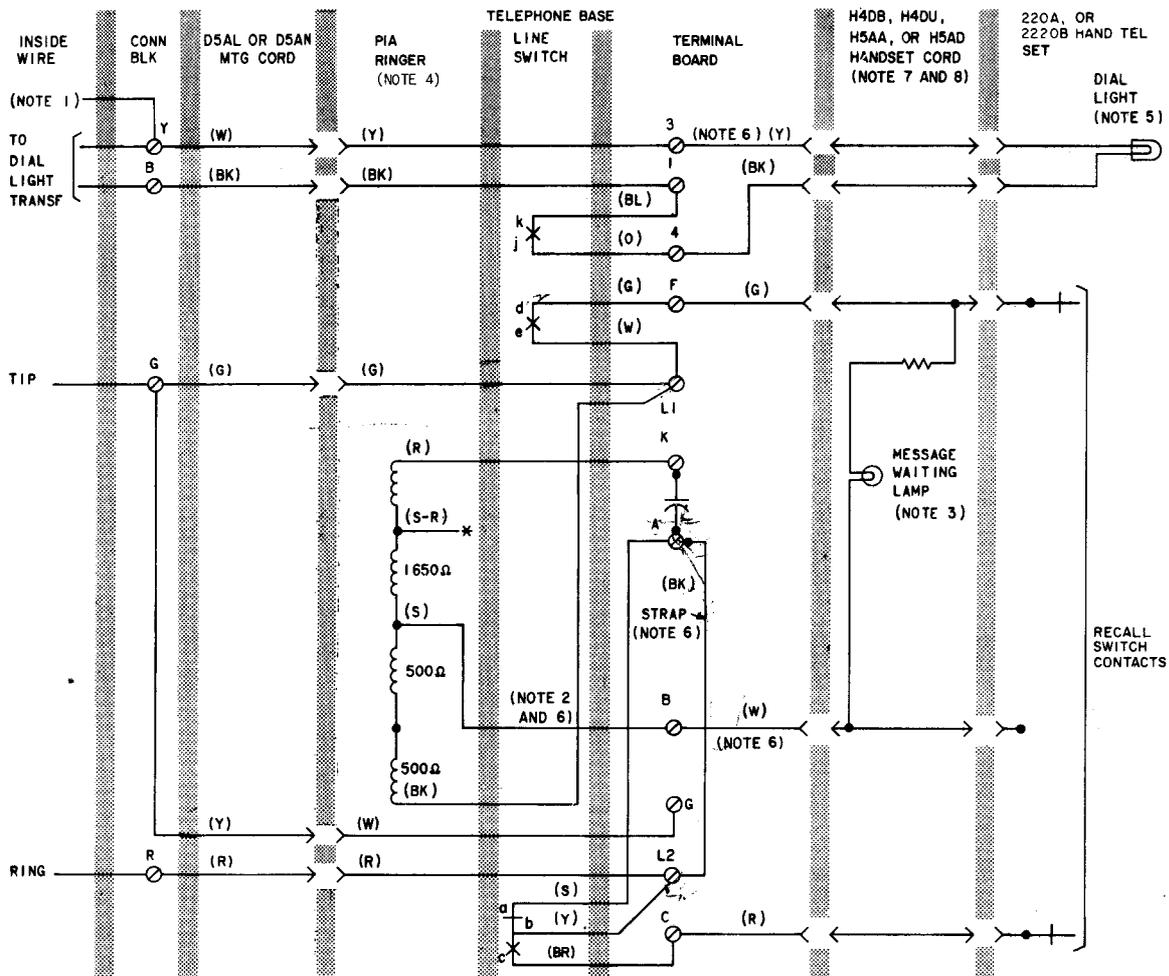


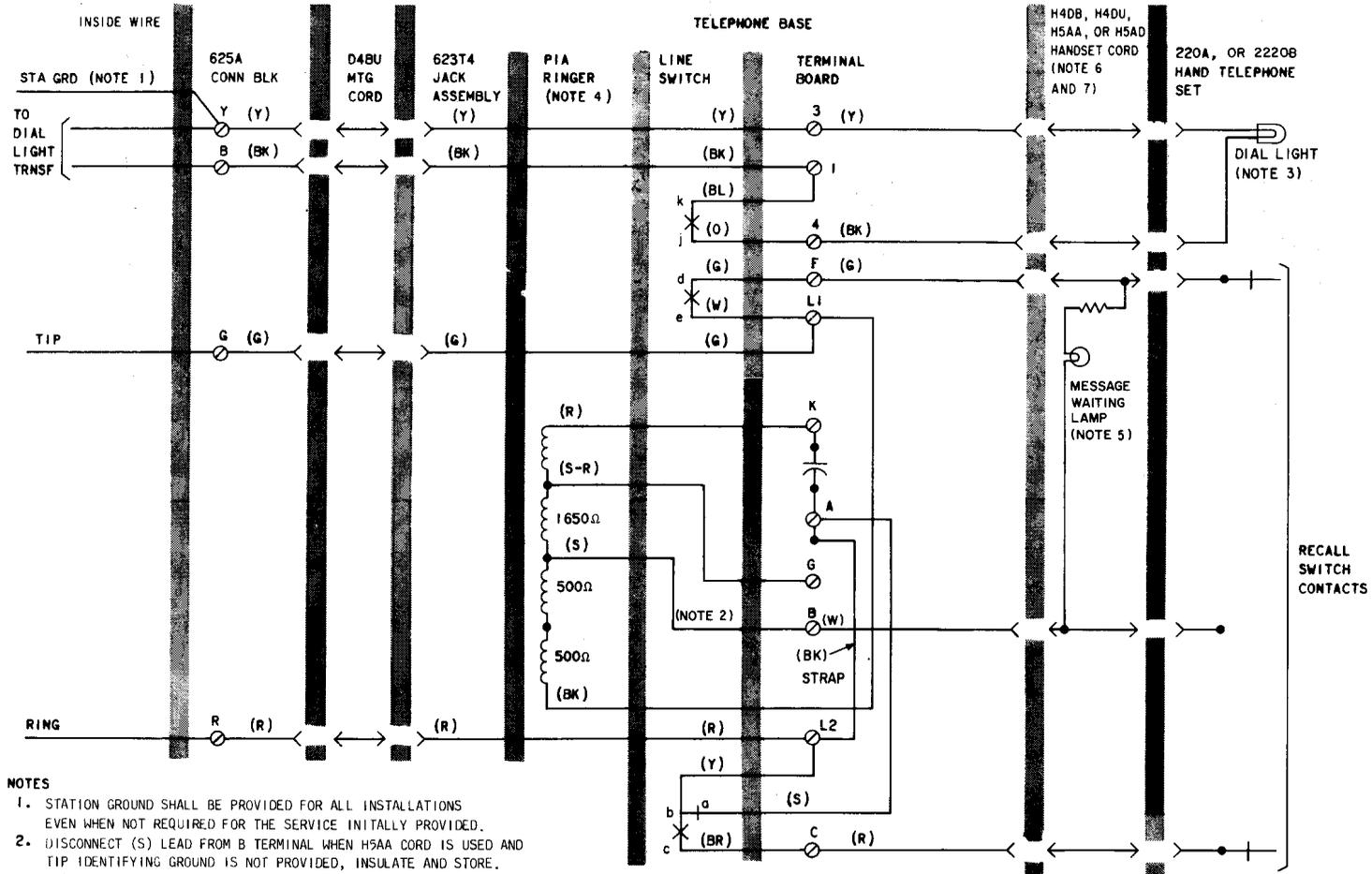
Fig. 2—AC1P or AC2P Telephone Base, Connections, With 220A (MD) or 2220B Hand Telephone Set



NOTES:

1. STATION GROUND SHALL BE PROVIDED FOR ALL INSTALLATIONS; EVEN WHEN NOT REQUIRED FOR THE SERVICE INITIALLY PROVIDED.
 2. DISCONNECT (S) LEAD FROM TERMINAL B WHEN H5AA HANDSET CORD IS USED AND TIP PARTY IDENTIFYING GROUND IS NOT PROVIDED, INSULATE AND STORE.
 3. LAMP AND RESISTOR ARE PART OF H5AD HANDSET CORD REQUIRED FOR MESSAGE WAITING FEATURE.
 4. SET WIRED FOR INDIVIDUAL OR BRIDGED SERVICE, FOR ALL CLASSES OF SERVICE REFER TO APPROPRIATE CONNECTION TABLE.
 5. CHANGE TO 53A LAMP IF COMBINED LENGTH OF HAND TELEPHONE SET CORD AND (AD1 BASE) MOUNTING CORD EXCEEDS 15 FEET.
 6. REFER TO READ IN 1.01 AND TABLE A FOR ADDITIONAL INFORMATION OR WIRING ARRANGEMENT AND LEAD COLORS OF AD1 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.
 8. WHEN H4DU CORD IS PROVIDED A 227D AND 231B ADAPTER IS REQUIRED.
- * INSULATED AND STORED

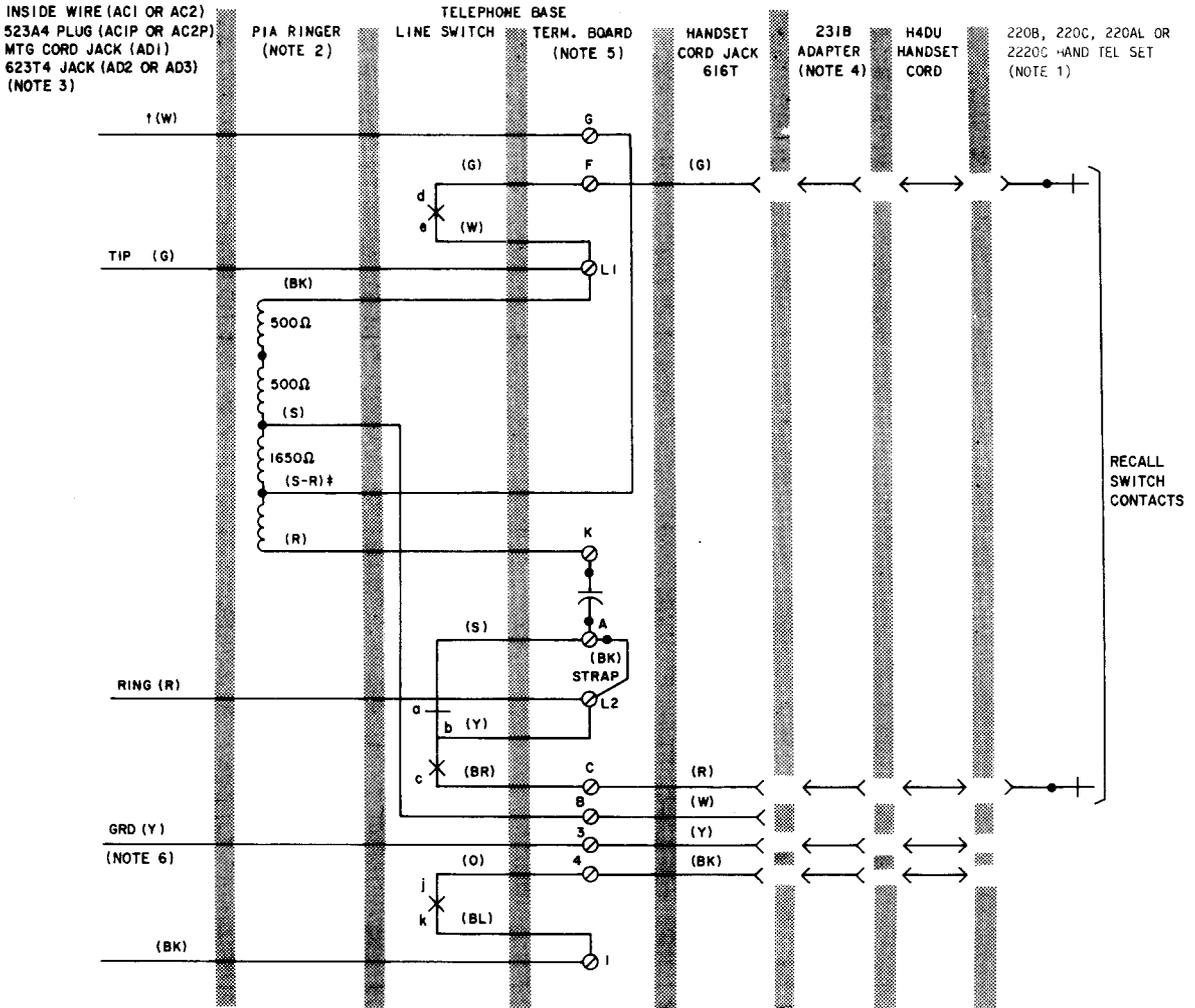
Fig. 3—AD1 (MD) Telephone Base, Connections, With 220A (MD) or 2220B Hand Telephone Set



NOTES

1. STATION GROUND SHALL BE PROVIDED FOR ALL INSTALLATIONS EVEN WHEN NOT REQUIRED FOR THE SERVICE INITIALLY PROVIDED.
2. DISCONNECT (S) LEAD FROM B TERMINAL WHEN H5AA CORD IS USED AND TIP IDENTIFYING GROUND IS NOT PROVIDED, INSULATE AND STORE.
3. CHANGE TO 53A LAMP IF COMBINED LENGTH OF HAND TELEPHONE SET CORD AND BASE MOUNTING CORD EXCEEDS 15 FEET.
4. FACTORY-WIRED FOR BRIDGED RINGING. FOR ALL CLASSES OF SERVICE REFER TO APPROPRIATE CONNECTION TABLE.
5. LAMP AND RESISTOR ARE PART OF H5AD HANDSET CORD REQUIRED FOR MESSAGE WAITING FEATURE (AD2 ONLY).
6. WHEN H4DU CORD IS PROVIDED A 227D AND 231B ADAPTER IS REQUIRED FOR AD2 BUT ONLY 227D ADAPTER IS REQUIRED FOR AD3.
7. H4DB OR H4DU HANDSET CORD SHALL BE USED FOR INDIVIDUAL OR BRIDGED RINGING, RING PARTY AND TIP PARTY WITHOUT IDENT. GRD.

Fig. 4—AD2 or AD3 Telephone Base, Connections, With 220A (MD) or 2220B Hand Telephone Set

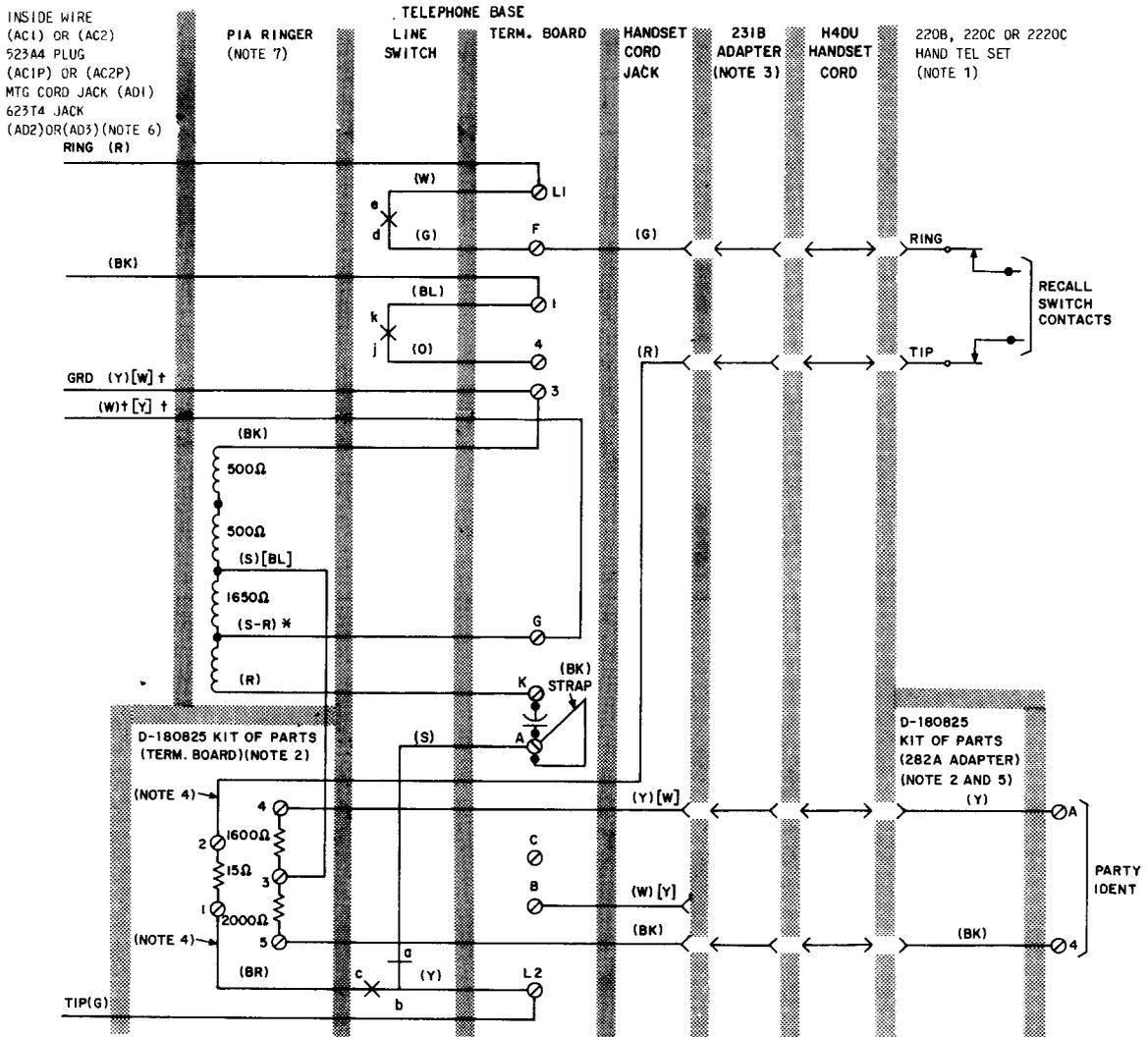


NOTES:

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.
 2. WIRED FOR INDIVIDUAL OR BRIDGED RINGING. FOR ALL CLASSES OF SERVICE REFER TO APPROPRIATE CONNECTION TABLE.
 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 WIRING ARRANGEMENT AND LEAD COLORS OF AC1 AND AD1 BASES MANUFACTURED PRIOR TO 10-1-72.
 6. STATION GROUND SHALL BE PROVIDED FOR ALL INSTALLATIONS EVEN WHEN NOT REQUIRED FOR THE SERVICE INITIALLY PROVIDED.
- * INSULATED AND STORED
 † 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 220B (MD), 220C, 220AL, or 2220C Hand Telephone Set Wired for Individual or Bridged Ringing

SECTION 502-322-400



() CURRENT COLOR CODE
 [] EARLY COLOR CODE
 * INSULATED AND STORED (AD1 ONLY)
 † AD1 ONLY

NOTES:

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.
2. REQUIRES OPENING HANDSET AND ADDING D-180825 KIT OF PARTS.

3. 231B ADAPTER NOT REQUIRED WHEN AC2, AC2P OR AD3 BASES ARE PROVIDED.
4. THESE CONNECTIONS ARE NOT REQUIRED WHEN 220B OR 220C HANDSETS ARE PROVIDED.
5. IF A 220B OR 2220C (EARLY VERSION) IS PROVIDED THE 282A ADAPTER FURNISHED WITH D-180825 KIT OF PARTS IS NOT REQUIRED.
6. FOR CONNECTING BLOCK INFORMATION, REFER TO APPROPRIATE CONNECTION TABLE.
7. FACTORY WIRED FOR INDIVIDUAL OR BRIDGED RINGING FOR TIP PARTY WITH IDENTIFYING GROUND, REFER TO APPROPRIATE CONNECTION TABLE.

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

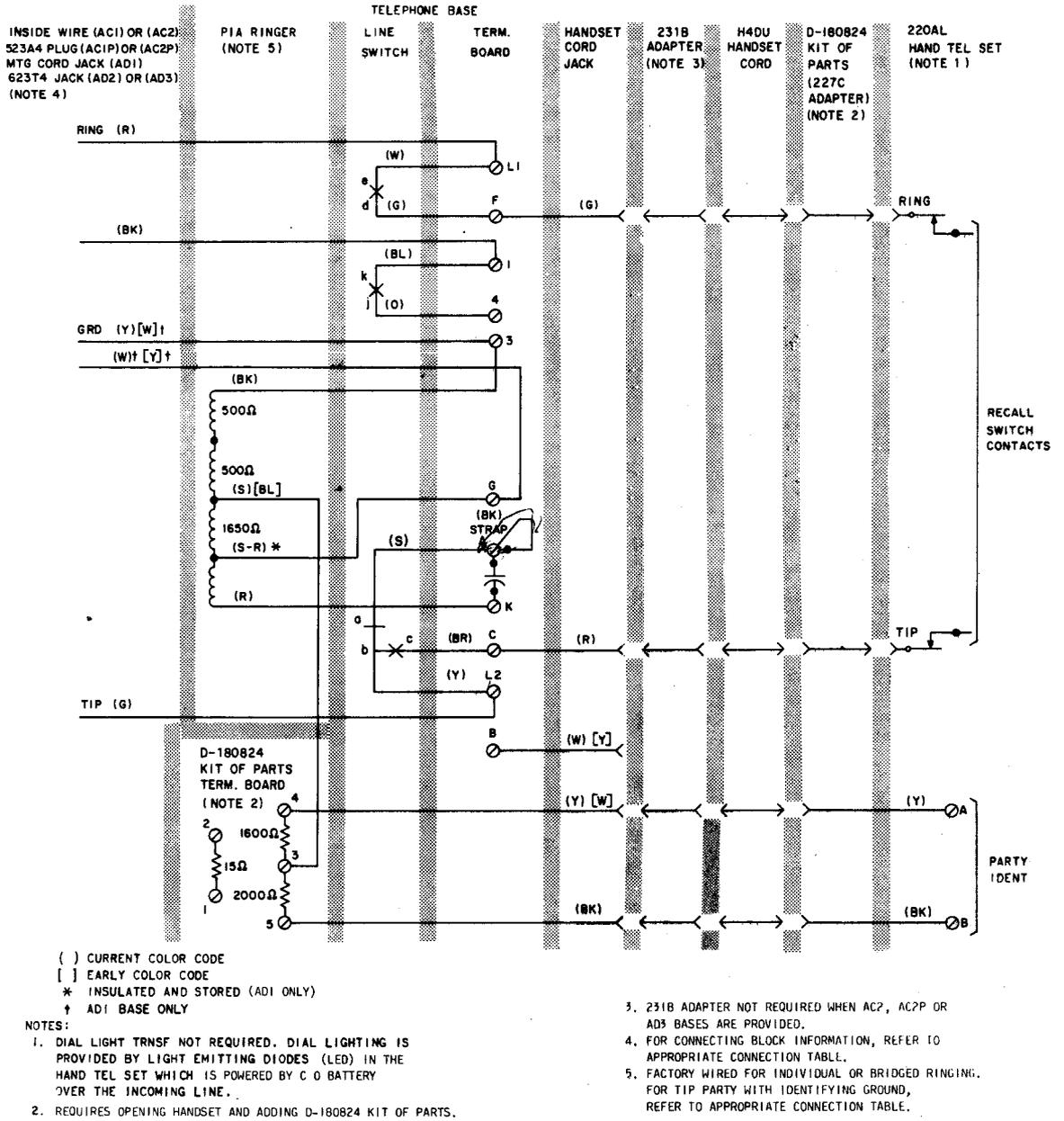
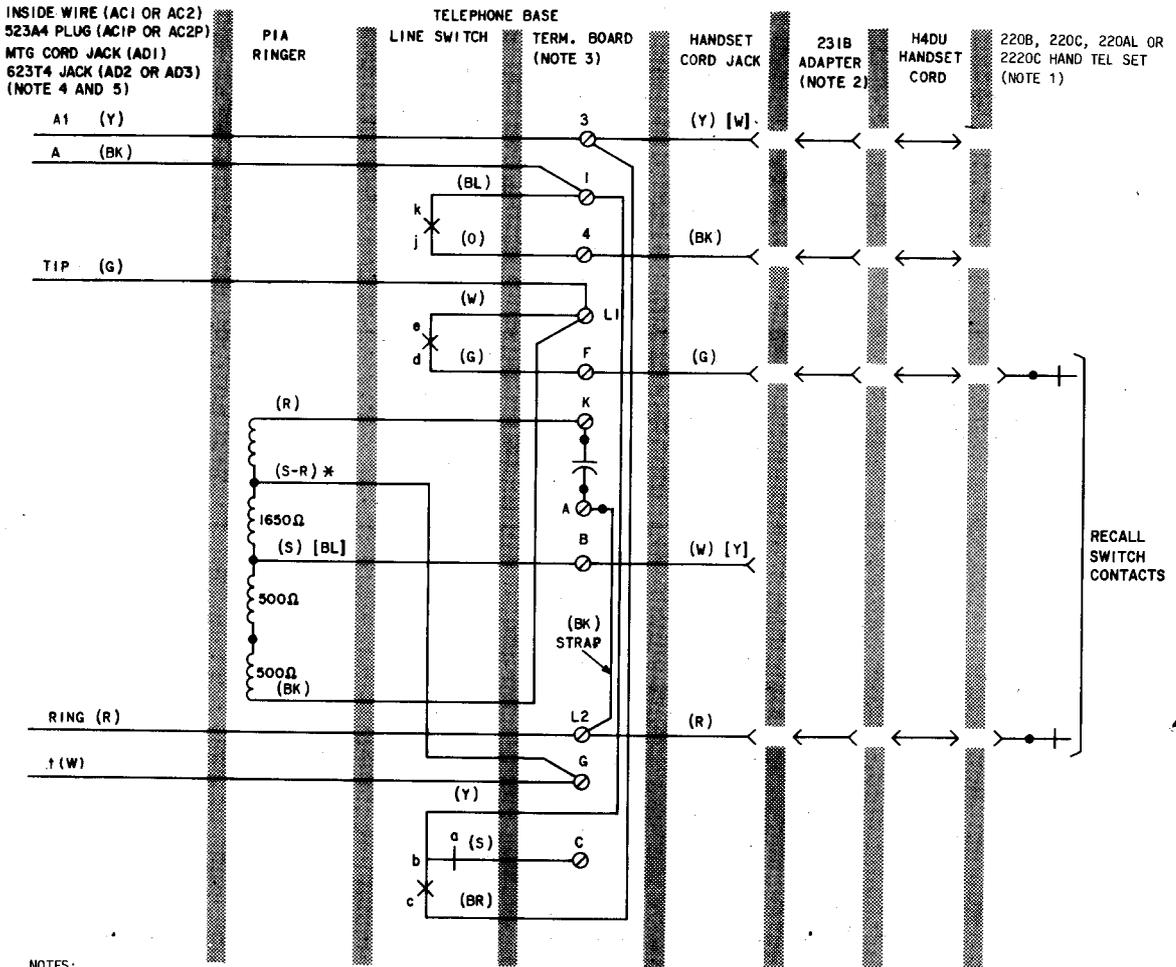


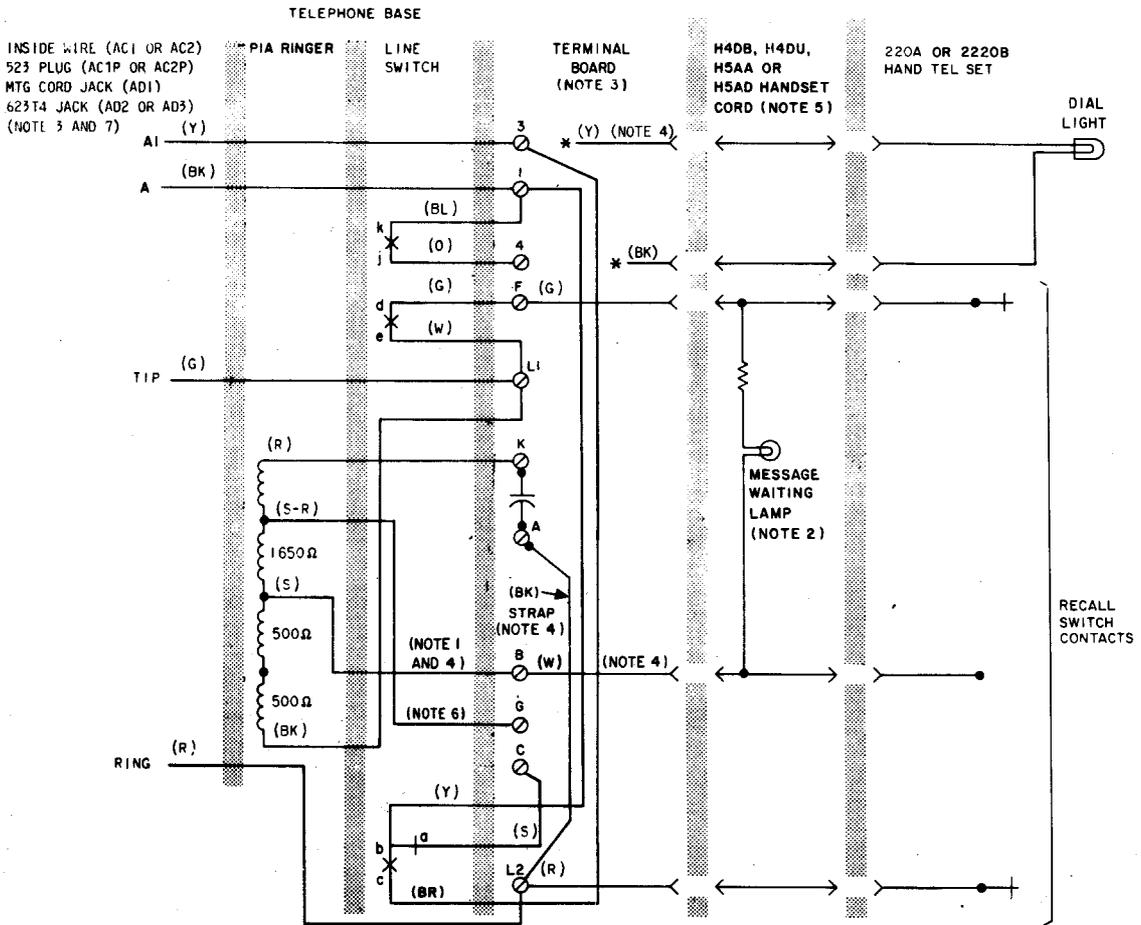
Fig. 7—AC1 (MD), AC2 (MD), AC1P, AC2P, AD1 (MD), AD2, or AD3 Telephone Base With 220AL Hand Telephone Set and D-180824 Kit of Parts (Tip Party Identification)◄



NOTES:

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 WIRING FOR INDIVIDUAL OR BRIDGED SERVICE. FOR KTS SERVICE REFER TO APPROPRIATE CONNECTION TABLE.
 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 APPROPRIATE CONNECTION TABLE.
- () CURRENT COLOR CODE
 [] EARLY COLOR CODE
 * INSULATED AND STORED (AD1 ONLY)
 † AD1 BASE ONLY

Fig. 8—AC1 (MD), AC2 (MD), AC1P, AC2P, AD1 (MD), AD2, or AD3 Telephone Base Connections, Wired for 1A1, 1A2, or 6A KTS With 220B (MD), 220C, 220AL, or 2220C Hand Telephone Set



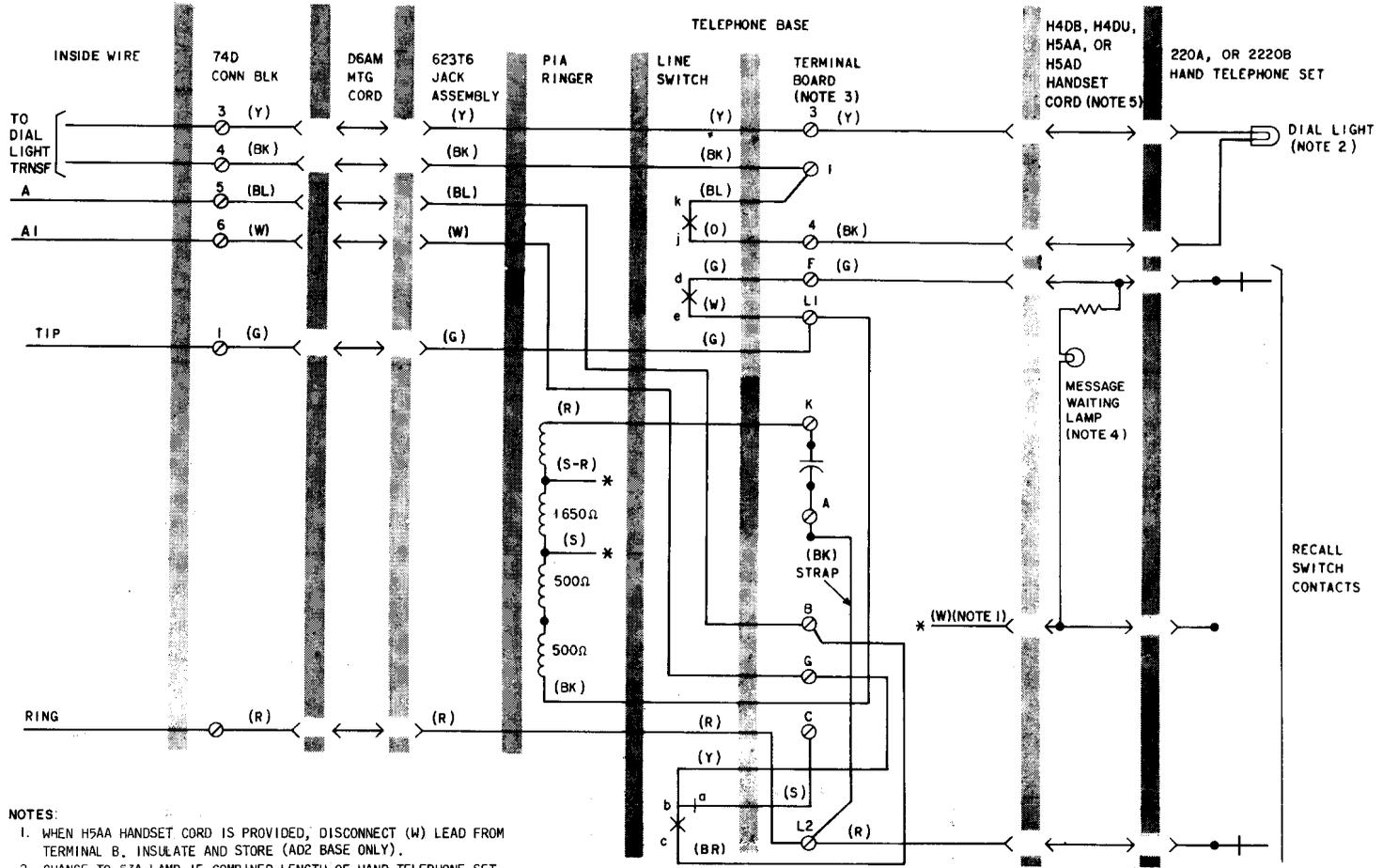
* INSULATED AND STORED

NOTES:

1. WHEN H5AA HANDSET CORD IS PROVIDED, DISCONNECT (S) LEAD FROM TERMINAL B, INSULATE AND STORE.
2. LAMP AND RESISTOR ARE PART OF H5AD HANDSET CORD REQUIRED FOR MESSAGE WAITING FEATURE ON AC1 BASE ONLY.
3. SET FACTORY WIRED FOR INDIVIDUAL OR BRIDGED SERVICE. FOR KTS SERVICE REFER TO APPROPRIATE CONNECTION TABLE.
4. REFER TO READ IN 1.01 AND TABLE A FOR ADDITIONAL INFORMATION ON WIRING ARRANGEMENT AND LEAD COLORS OF AC1 BASES MANUFACTURED PRIOR TO 10-1-72.
5. WHEN H4DU CORD IS PROVIDED A 272D AND 231B ADAPTER IS REQUIRED ON AC1 BUT 227D ADAPTER ONLY IS REQUIRED ON AC2.
6. INSULATED AND STORED ON EARLY VERSION AC1 AND ALL AD1 BASES.
7. FOR CONNECTING BLOCK INFORMATION, REFER TO APPROPRIATE CONNECTION TABLE.

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

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- NOTES:
1. WHEN H5AA HANDSET CORD IS PROVIDED, DISCONNECT (W) LEAD FROM TERMINAL B. INSULATE AND STORE (AD2 BASE ONLY).
 2. CHANGE TO 53A LAMP IF COMBINED LENGTH OF HAND TELEPHONE SET CORD AND BASE MOUNTING CORD EXCEEDS 15 FEET.
 3. FACTORY-WIRED FOR BRIDGED RINGING. FOR KTS REFER TO APPROPRIATE CONNECTION TABLE.
 4. LAMP AND RESISTOR ARE PART OF H5AD HANDSET CORD REQUIRED FOR MESSAGE WAITING FEATURE ON AD2 BASE ONLY.

5. WHEN H4DU CORD IS PROVIDED A 227D AND 231B ADAPTER IS REQUIRED ON AD2 BUT 227D ADAPTER ONLY IS REQUIRED ON AD3.
- * INSULATED AND STORED

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

♦TABLE B♦

LIGHT EMITTING DIODE (LED) HANDSET
IDENTIFICATION AND ASSOCIATED APPARATUS

HANDSET CODE	METHOD OF IDENTIFICATION	ASSOCIATED BASES	HANDSET CORD ADAPTER FOR BASE*	HANDSET CORD ADAPTER FOR HANDSET	TIP PARTY WITH IDENT GRD*
220AL	LED Imprinted on dial number plate under finger stop	AC1, AC1P, AD1, AD2	231B	227D	D-180824 Kit of Parts
		AC2, AC2P, AD3	None		
220B (MD) and 2220C (early version) (Note)	(4) wire springs in handset cord jack	AC1, AC1P AD1, AD2	231B	None	D-180825 Kit of Parts
		AC2, AC2P, AD3	None		
220C and 2220C (later version)	(2) wire springs in handset cord jack	AC1, AC1P, AD1, AD2	231B	None	D-180825 Kit of Parts
		AC2, AC2P, AD3	None		

* Must be ordered separately.

Note: The 282A adapter in D-kit of parts is not required for these hand telephone sets.

TABLE C

**CONNECTIONS FOR INDIVIDUAL AND A 2-PARTY SERVICE
WITH 220A AND 220B HAND TELEPHONE SETS (SEE READ 1.01)**

WIRE OR LEAD	LEAD DESIG	COLOR	INDIV OR BRIDGED (NOTE 1)	RING PARTY (NOTE 1)	TIP PARTY	
					NO IDENT GRD (NOTE 1)	WITH IDENT GRD (NOTE 2)
Inside Wire at 42A or 625-Type Conn. Block (AD1, AD2, or AD3)	Tip	G	G	G	G	G
	Ring	R	R	R	R	R
	STA GRD and TRNSF	Y	Y	Y	Y	Y
	TRNSF	BK	B	B	B	B
Inside Wire at 630A Conn. Block (AC1P or AC2P)	Tip	G	1	1	1	1
	Ring	R	2	2	2	2
	STA GRD and TRNSF	Y	3	3	3	3
	TRNSF	BK	4	4	4	4
Inside Wire at Term. Board (AC1 or AC2)	Tip	G	L1	L1	L2	L2
	Ring	R	L2	L2	L1	L1
	STA GRD and TRNSF	Y	3	3	3	3
	TRNSF	BK	1	1	1	1
Mtg Cord Jack or 523A Plug Leads at Term. Board (AD1, AD2, AD3, AC1P, or AC2P)	Tip	G	L1	L1	L2	L2
	Ring	R	L2	L2	L1	L1
	TRNSF	Y	3	3	3	3
	TRNSF	BK	1	1	1	1
Ringer (Note 1)	—	BK	L1	3	3	3
Strap from A of Term. Bd.	—	BK	L2	L2	L2	A
Handset Cord Jack Leads in Base (220B only)	Tip	G	F	F	C	C
	Ring	R	C	C	F	F
	TRNSF	Y	3	3	3	3
	TRNSF	BK	4	4	4	4

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

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

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

◆TABLE D◆

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

WIRE OR LEAD (NOTE 1)	LEAD DESIG	COLOR	INDIV OR BRIDGED	RING PARTY	TIP PARTY			
					NO IDENT GRD	WITH IDENT GRD		
						BASE TERM BD.	TERM. BD. D-180824 (FIG. 7) D-180825 (FIG. 6)	HANDSET TERM. (NOTES 2, 4 AND 5)
Inside Wire at 42A or 625-Type Conn. Blk. (AD1, AD2, or AD3)	Tip	G	G	G	G	G	—	—
	Ring	R	R	R	R	R	—	—
	GRD	Y	Y	Y	Y	Y	—	—
	—	BK	B	B	B	B	—	—
Inside Wire at 630A Conn Blk (AC1P or AC2P)	Tip	G	1	1	1	1	—	—
	Ring	R	2	2	2	2	—	—
	GRD	Y	3	3	3	3	—	—
	—	BK	4	4	4	4	—	—
Inside Wire at Term. Board (AC1 or AC2)	Tip	G	L1	L1	L2	L2	—	—
	Ring	R	L2	L2	L1	L1	—	—
	GRD	Y	3	3	3	3	—	—
	—	BK	1	1	1	1	—	—
Mtg Cord Jack or 523A Plug Leads at Term. Board (AD1,AD2,AD3, AC1P,AC2P)	Tip	G	L1	L1	L2	L2	—	—
	Ring	R	L2	L2	L1	L1	—	—
	GRD	Y	3	3	3	3	—	—
	—	BK	1	1	1	1	—	—
Ringer	—	S or BL (Note 2)	B	B	B	—	3	—
	—	BK	L1	3	3	3	—	—
Line Switch	—	BR	C	C	C	(220B, C(220C, & (220AL)	1 (2220C)	—

♦ TABLE D (Cont) ♦

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

WIRE OR LEAD (NOTE 1)	LEAD DESIG	COLOR	INDIV OR BRIDGED	RING PARTY	TIP PARTY			
					NO IDENT GRD	WITH IDENT GRD		
						BASE TERM BD.	TERM. BD. D-180824 (FIG. 7) D-180825 (Fig. 6)	HANDSET TERM. (NOTES 2, 4 AND 5)
Handset Cord, Jack Leads in Base	Tip	G	F	F	F	—	—	—
	Ring	R	C	C	C	(220B, C (220C, & 220AL)	2 (2220C)	—
	PTY Ident	Y or W (Note 2)	3	3	3	—	4	—
	PTY Ident	BK	4	4	4	—	5	—
Strap From A of Term. Bd.	Strap	BK	L2	L2	L2	A	—	—
Handset Cord Jack Leads in Handset (Note 2)	Tip	G	—	—	—	—	—	—
	Ring	R	—	—	—	—	—	—
	PTY Ident	Y	*	*	*	—	—	A
	PTY Ident	BK	*	*	*	—	—	4

*Insulated and stored, 220B and 2220C (early version only).

Notes:

1. If AC1, AC1P, AD1 or AD2 bases are provided, a 231B adapter is required (ordered separately).
2. Handsets must be opened to wire for tip party with identifying ground.
3. For bases dated prior to 10-1-72 see READ in 1.01 and note under Table A.
4. The D-180824 Kit of Parts (ordered separately) is used with the 220AL hand telephone set only. The D-180825 Kit of Parts (ordered separately) is used with the 220B (MD), 220C, and 2220C hand telephone sets only.
5. Leads for these connections are provided by the 227C adapter (220AL only) and by the 282A adapter (220C and 2220C later version only) which are furnished as part of the D-180824 and D-180825 Kits of Parts, respectively.

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

TABLE E

**CONNECTIONS FOR 4-PARTY FULL SELECTIVE OR 8-PARTY SEMISELECTIVE
RINGING USING 426N DIODE WITH 220A OR 2220B HAND TELEPHONE SETS
(SEE READ IN 1.01)**

WIRE OR LEAD	LEAD DESIG	COLOR	-RING	-TIP	+RING	+TIP
Inside Wire at 42A or 625-Type Conn Blk (AD1, AD2, AD3)	Tip	G	G	G	G	G
	Ring	R	R	R	R	R
	STA GRD and TRNSF	Y	Y	Y	Y	Y
	TRNSF	BK	B	B	B	B
Inside Wire at 630A Conn Blk (AC1P, AC2P)	Tip	G	1	1	1	1
	Ring	R	2	2	2	2
	STA GRD and TRNSF	Y	3	3	3	3
	TRNSF	BK	4	4	4	4
Inside Wire at Term. Board (AC1, AC2)	Tip	G	L1	L1	L1	L1
	Ring	R	L2	L2	L2	L2
	TRNSF	Y [W]	3	3	3	3
	TRNSF	BK	1	1	1	1
Mtg Cord Jack or 523A Plug Leads at Term. Board (AD1, AD2, AD3, AC1P, AC2P)	Tip	G	L1	L1	L1	L1
	Ring	R	L2	L2	L2	L2
	TRNSF	Y [W]	3	3	3	3
	TRNSF	BK	1	1	1	1
Ringer	R	3	3	3	L2	L1
	BK	K	K	K	K	K
	S	B	B	B	B	B
	S-R	G	G	G	G	G
426N Diode	†		L2	L1	3	3
	‡		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 Lead on Flanged (Gold) base end.

‡ Lead on Knob end (housing tip).

TABLE F

CONNECTIONS FOR 4-PARTY FULL SELECTIVE OR 8-PARTY SEMISELECTIVE RINGING USING 426N DIODE WITH 220B, 220C, 220AL, AND OR 2220C HAND TELEPHONE SETS (SEE READ IN 1.01)

WIRE OR LEAD	LEAD DESIG	COLOR	-RING	-TIP	+RING	+TIP
Inside Wire at 42A or 625-Type Conn Blk (AD1, AD2, AD3)	Tip	G	G	G	G	G
	Ring	R	R	R	R	R
	STA GRD	Y	Y	Y	Y	Y
	Spare	BK	B	B	B	B
Inside Wire at 630A Conn Blk (AC1P, AC2P)	Tip	G	1	1	1	1
	Ring	R	2	2	2	2
	STA GRD	Y	3	3	3	3
	Spare	BK	4	4	4	4
Inside Wire at Term. Board (AC1, AC2)	Tip	G	L1	L1	L1	L1
	Ring	R	L2	L2	L2	L2
	STA GRD	Y [W]	3	3	3	3
	Spare	BK	1	1	1	1
Mtg Cord Jack or 523A Plug Leads at Term. Board (AD1, AD2, AD3, AC1P, AC2P)	Tip	G	L1	L1	L1	L1
	Ring	R	L2	L2	L2	L2
	STA GRD	Y [W]	3	3	3	3
	Spare	BK	1	1	1	1
Ringer	R	3	3	3	L2	L1
	BK	K	K	K	K	K
	S	B	B	B	B	B
	S-R	G	G	G	G	G
426N Diode	†		L2	L1	3	3
	‡		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.
- ‡ Lead on Knob end (housing tip).

♦TABLE G♦

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

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

* Insulate and store.

◆TABLE H◆

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

WIRE OR LEAD	LEAD DESIG	COLOR	74D CONN BLK TERM. BD	BASE TERM. BOARD		
				REMOVE FROM	CONNECT TO	
Inside Wire at 74D Conn Blk	Tip		1			
	Ring		2			
	TRNSF		3			
	TRNSF		4			
	A		5			
	A1		6			
623P6 Jack (Note)		R			L2	
		G			L1	
		Y			3	
		BK			1	
		BL			B	
		W			G	
Line Switch	A	BR			C	
	A1	Y			L2	G
		S			A	C
Ringer		S			B	
		S-R			G	*
Strap		BK			A	
Handset Cord Jack in Base		R			C	
		W			B	†

* Insulate and store.

† Insulate and store (AD2 only).

Note: The 623P6 jack and D6AM mounting cord must be ordered separately.

◆TABLE I◆

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

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

◆TABLE J◆

D-180788 POLARITY GUARD ASSEMBLY
CONNECTIONS (AC- OR AD-TYPE) TELEPHONE
BASE AND (2220B ONLY) HAND
TELEPHONE SETS
(SEE READ IN 1.01)

WIRE OR LEAD	COLOR	REMOVE FROM	CONNECT TO	
		TERM. BOARD	POLARITY GUARD ASSY	TERM. BOARD
Handset Cord Jack in Base	R	C	Term. C.	
	G	F	Term. F	
Polarity Guard Assembly	R			C
	G			F

Note: For use when specified by local instructions for end-to-end signaling installation.

◆TABLE K◆

CONNECTIONS FOR MESSAGE WAITING
LAMP, AND DIAL LIGHT FEATURES
(1A1, 1A2, AND 6A KTS),
(SEE READ IN 1.01)
(220A AND 2220B ONLY)

WIRE OR LEAD	COLOR	TERM. BOARD	
		REMOVE FROM	CONNECT TO
Inside Wire (AC1) or Mtg Cord Jack Leads (AD1)	G	L1	C
	R	L2	L1
Handset Cord Jack Leads (Note)	G	F	C
	W	B	L1
	R	C	F
Line Switch	BR	C	3
	Y	L2	G
	S	A	L2
Ringer	BK	L1	C
Strap from A	BK	L2	L1

Note: Install H5AD handset cord in AC1 or AD1 base only.

TABLE L

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

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

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

TABLE M

CONVERSION FOR DATA APPLICATIONS FOR
220A AND 2220B HAND TELEPHONE SETS
(SEE READ IN 1.01)

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

* Insulate and store.