# REFERENCE

# 502-, 510-, 511-, 515-, 555-, AND 558-TYPE TELEPHONE SETS



Fig. 1—502-, 510-, 511-, 515-, 555-, and 558-Type Telephone Sets

#### 1. GENERAL

- 1.01 This section is reissued to add C4B and H1B ringers, furnished in current production 502-, 510-, 511-, and 558-type telephone sets.
- 1.02 This section covers rotary dial and manual telephone sets equipped with one or two of the following features.
  - (1) Exclusion key used to control extension stations or external signaling circuits in key telephone systems (Fig. 2).
  - (2) Line and signal key to permit 2-line pickup and control of external signaling circuits in key telephone systems (Fig. 3).
  - (3) Hold key and line and signal key.
- 1.03 Code numbers such as 511C/D cover both manual and dial versions, respectively, of the same type telephone set to permit converting to either type without changing the code number stamped on the base. The letter R was added to the code number at one time to indicate the set was equipped with a retractile handset cord.



Fig. 2—Typical Exlusion Switch

## 2. IDENTIFICATION

2.01 Purpose: These sets are used where exclusion, 2-line pickup, or both are desired in common battery areas, manual or dial.

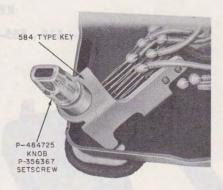


Fig. 3—Typical Turn Key

**2.02** Ordering Guide: Table A lists components of these sets.

# 2.03 Color:

- (a) All sets available in standard colors indicated in Section 500-120-100.
- (b) Components available in color include dial or apparatus blank, handset, mounting cord, and housing. Components other than housing must have code completed by adding desired color suffix. Housing P-number must have desired color suffix substituted for its last two digits.

## 3. OPERATION (515B AND 555B)

3.01 515B and 555B Telephone Sets:



The following operating instructions should be explained to the customer upon installation of the set.

If a call is received on one line and it is desired to hold the party while transferring to the other line:

 Lift the hold key plunger (on top of housing) and operate the line key to the second line.

TABLE A
TELEPHONE SET COMPONENT PARTS\*

TEL. SET	CODE	HOUSING	MOUNTING CORD	RINGER	EXCLUSION OR HOLD KEY	584-TYPE KEY AND LEAD ASSEMBLY
502	A	D 00D000	D6AA	C4A or	D 10 4 110	to a position
502	В	P-80D900	DOAA	C4B	P-19A410	
and the la	Α-	For complete	D4BJ	C4A	scittor, the he	omeratas
510	В	P-80D100	D4DJ	C4A	al instant of	(Mared) uppl
010	E	1-000100	D6AA	C4A or	sunt be depre	P-347015
	F		DOAA	C4B		
	A(MD)		D10P	EDMARI	HIANG GRA NO	LYNTALSHI
	B(MD)		Dioi	C4A	P-19A410	pelalsk III
511	С		D16D	C4A	P-19A410	P-20A455
911	D	P-80D700	2102			
	F		D20J	H1A or	P-20F139	P-20F137
	Н		D20K	H1B	1-201 100	1 201 101
515	В		D6AA		P-21F195	P-21F217
555	В				P-21F197	P-21F218
	A(MD)			C4A		
	B(MD)	P-81E800				P-11E256
558	C				D. L. Port	r-11E290
	D				P-11E244	
	F			H1A or H1B	P-20F167	P-20F166

<sup>\*</sup>In addition to parts in tabular listing, sets contain a 425-type network, G-type handset, and 7- or 9-type dial. 95-type apparatus blank included with 502A, 510A, E, 511A, C, and 558 A, C.

(2) When the call on second line is completed, operate the line key back to the first line position and depress the hold key plunger.

**Note:** Failure to depress the hold key plunger when a held line is reconnected will automatically place a hold on the unused line, preventing its use for either incoming or outgoing calls. Reversal of the operating sequence (i.e., depressing the hold key plunger before operating line key to held line position) will disconnect the held line.

(3) If the second line is to be picked up by an extension station, the hold key is left operated (lifted) until the extension is answered. After the extension handset is lifted, the hold key (first set) must be depressed to connect the talking path of the extension.

# 4. INSTALLATION AND MAINTENANCE

4.01 Maintenance of handsets, dials, and ringers is outlined in sections covering these components.

- (a) ♦When replacement of a split coil ringer, i.e., a C4A or H1A is necessary, the single coil version C4B or H1B can be used in certain sets if tip party identification is not required.
- (b) The G1- or G3-type handsets in these sets may be replaced by a G6AR(MD) or G6B handset for impaired hearing, a G7AR for weak speech, or a G8A(MD) or G8B for noisy locations. Refer to section covering handsets for additional information.
- 4.02 For complete installation and maintenance information for all components of these sets refer to Division 502, section entitled 0- and 1-Button Sets, Common Installation and Maintenance Information.

TABLE B 502A/B LINE AND RINGER CONNECTIONS

		FEATUR	ES		16.		-(11)				CONNEC	TIONS 1	TO TERM	MINALS	INSIDE	SET		11)	- 14	W/P	1000				IAL CONI				
LINES		IGER SET D AS	CLUS KE USED CUT	ION Y TO			CC	NTING ORD				EXCLU:				C4 RING LEA	ER			C4B RINGER LEADS		derive	NE	EX	ION	CO O PV	R	EQ!	EY UIP. STA JSY
NUMBER OF LE	84	OR PVT RINGER	STA OR	e -			LE	ADS				LEAL	JS			(NOT	E)			(NOTE)				CIRC	JIT	RING	GER	LA	MP CUIT
NUME	RINGER	COM	EXT EXT	COLOR	(R)	(G)	(Y)	(BK)	(BL)	(W)	(Y) [R-Y]	(BK) [G-Y]	(BL)	(W)	(R)	(BK)	(S)	(S-R)	(\$)*	(BK)	(R)	RING	TIP	RING	TIP	R	В	A OR BL	A1 OR GRD
1					1	2	E1	E2	5	6	L2	Lı	E1	E2	1	2	K	A	1	2	K	R	G	Y	BK			BL	w
1					1	2	E1	E2	5	6	4	3	E2	3	E1	4	A	A	E1	4	A	R	G		10	Y	вк	BL	w

( ) Current color code.

[ ] MD color code.

\*Strap connected to A of network.

Note: Refer to notes 3, 4, and 5, Fig. 4.

TABLE C
510A/B LINE AND RINGER CONNECTIONS (EQUIPPED WITH 4-CONDUCTOR MOUNTING CORD)

	(R	FEATURES INGER IN SI USED AS INE RINGER					CON	INECTION	S FOR TEI	RMINALS I	NSIDE SE	т					EXT	ERNAL COI MOUNTI	NNECTION: NG CORD	S FOR		
LINES		U	IRN KE' SED TO UT OFF			MOUN	D		TL	IRN EY ADS		RIN	4A GER ADS	-	LI	NE		NE 2	SII	GNAL	CUT	OFF
R OF	NG.	E OR		ER		LEA	DS		LE	ADS		(NO	TE)				7 8				0.110	
NUMBER OF I	SIGNALING	EXT STA OR EXT LINE RINGER	RINGER IN SET	AUXIL IARY RECEIVER	R	G	Y	вк	S-R	S-E	R	BIL	s	S-R	RING	TIP	RING	TIP	s	GRD	RING	TIP
1					L2	L1	5	6	L2	L1	L2	L1	К	A	R	G			Y	вк		
1					L2	L1	5	6	L2	Ll	1	2	K	A	R	G			Y	ВК		
1		•			L2	L1	3	4	L2	L1	L2	L1	K	A	R	G					Y	BK
1					L2	L1	3	4	L2	L1	3	4	К	A	R	G					Y	ВК
1					L2	L1	3	4	G	R	L2	L1	К	A	R	G					Y	ВК
2					1	2	3	4	L2	Lı	1	2	K	A	R	G	Y	вк				

Note: Refer to notes 2, 3, 4, and 5, Fig. 5.

Page

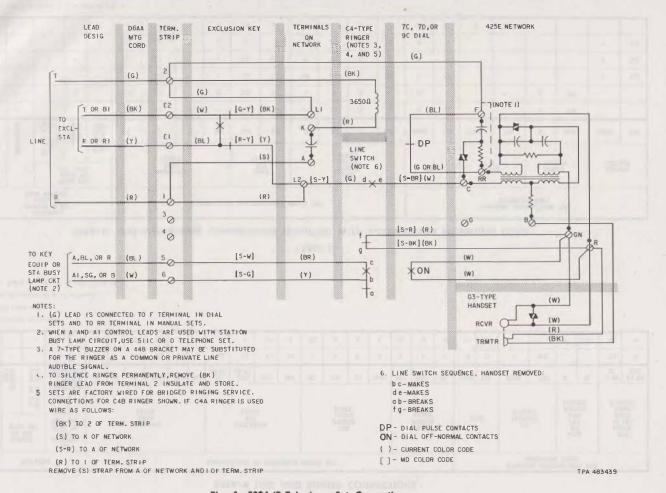
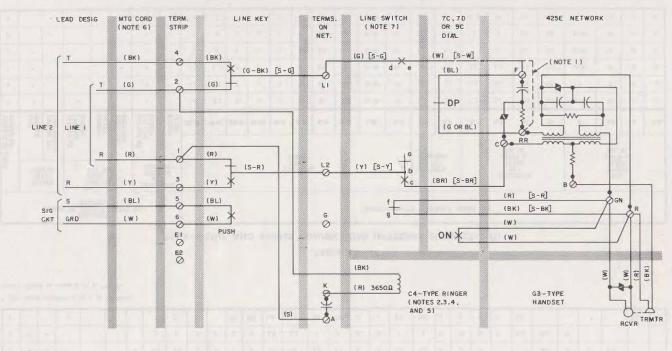


Fig. 4—502A/B Telephone Set, Connections



#### NOTES:

- (w) [S-W] LINE SWITCH LEAD IS CONNECTED TO F TERMINAL IN DIAL SETS AND TO RR TERMINAL IN MANUAL SETS.
- 2. SETS ARE FACTORY WIRED FOR BRIDGED RINGING SERVICE. CONNECTIONS FOR C4B RINGER SHOWN.

  IF C4A RINGER IS USED, WIRE AS FOLLOWS: (BK) TO 2 OF TERM. STRIP

(S) TO K NETWORK (S~R) TO A OF NETWORK (R) TO I OF TERM.STRIP

REMOVE (S) STRAP FROM A OF NETWORK AND I OF TERM. STRIP.

- RINGER CONNECTIONS PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, CONNECT (BK) RINGER LEAD AND (S) STRAP LEAD TO TERMINALS 4 AND 3 RESPECTIVELY.
- 4. A 7-TYPE BUZZER ON A 44B BRACKET MAY BE SUBSTITUTED FOR THE RINGER AS A COMMON OR PRIVATE LINE AUDIBLE SIGNAL.
- 5. TO SILENCE RINGER PERMANENTLY, REMOVE (BK) RINGER LEAD FROM TERMINAL 2, INSULATE AND STORE.
- 510A AND B SETS ARE EQUIPPED WITH D4BJ MTG CORD WHICH DOES NOT PROVIDE SIGNAL CKT LEADS.510E AND F SETS ARE EQUIPPED WITH D6AA MTG CORD.

 LINE SWITCH SEQUENCE, HANDSET REMOVED: bc-MAKES

de-MAKES ab-BREAKS fg-BREAKS

DP - DIAL PULSE CONTACTS
ON - DIAL OFF-NORMAL CONTACTS

( ) - CURRENT COLOR CODE

[ ] - MD COLOR CODE

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Fig. 5-510A/B and E/F Telephone Set Connections, Wired For 2-Line Pickup and Signaling

TABLE D

510E/F LINE AND RINGER CONNECTIONS (EQUIPPED WITH 6-CONDUCTOR MOUNTING CORD)

			FEATUR	ES							CO	NNECT	IONS T	O TERM	INALS	INSIDE	SET								EXTER	NAL CO MOUNT	NNECTI ING CO	ONS FO	R		
LINES		S	ER IN ET D AS	U	URN K ISED T UT OF	0		,	MOUNT COR LEAD	D			TU KE LEA	Y	77	C4 RING LEA	BER DS		R	C4B INGER EADS		LII	NE	LI		SIGI		CUTI		COM PVI LIN RING	T IE
UP	SNI	6	ш.	E OR		VER			LEAL	3			LEA	103		(NO1	TE)		(1	NOTE)						WE SE				CIRCI	
PICKED UP	SIGNALING	LINE	COM OR PVT LINE RINGER	EXT STA EXT LINE	RINGER IN SET	AUXILI/ RECEIVI	R	G	Y	вк	BL	W	S-R	S-G	R	вк	s	S-R	s*	ВК	R	RING	TIP	RING	TIP	s	GRD	RING	TIP	R	
1			4.0		11/		L2	L1	3	4	5	6	L2	L1	L2	L1	К	A	L2	L1	К	R	G			BL	W	Y	вк	1	
1	•						L2	L1	3	4	5	6	L2	L1	1	2	К	A	1	2	K	R	G			BL	W	Y	ВК	Luai	
1							L2	L1	3	4	5	6	G	R	L2	L1	К	A	L2	L1	K	R	G			BL	w	Y	вк		
2							1	2	3	4	5	6	L2	L1	1	2	К	A	1	2	K	R	G	Y	вк	BL	w				Г
2							1	2	3	4	E1	E2	L2	L1	E1	E2	A	A	E1	E2	A	R	G	Y	вк					BL	,

<sup>\* (</sup>S) strap connected to A of network.

Note: Refer to notes 2, 3, 4, Fig. 5.

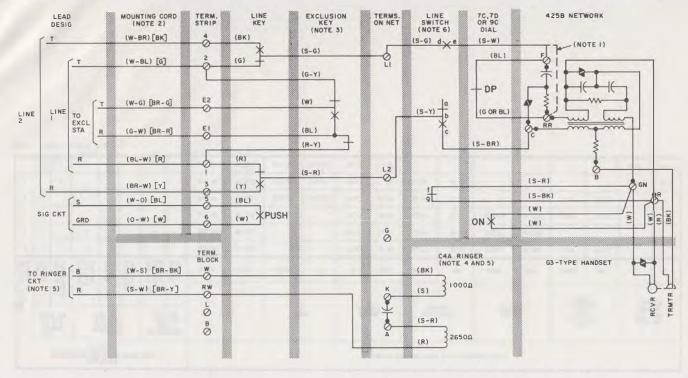
TABLE E
511A/B LINE AND RINGER CONNECTIONS (INTERNAL CONNECTIONS)

		(SIGNA	LING INC	TURES LUDED URES)	WITH	ALL										CONNEC	TIONS T	O TERM	INALS II	ISIDE SE	Ţ						
S	RIN IN S USE	SET	U	JRN KE ISED T	0	EXCLU KE USED CUT	Y		Č I	H			UNTING	G		4 7	7	TI	JRN EY	19	)	LUSION KEY EADS		7	C4/ RING LEAD	ER	U
PICKED UP	~	COM OR PVT LINE RINGER	A OR	α.	ARY	NE OR	000					,	EADS						ADS		(NC	TE 3, G. 6)	100	1	(NOTE FIG.	6)	
PICKE	LINE	COM C	EXT STA OR EXT LINE RINGER	RINGER IN SET	AUXILIARY	EXT STA OR EXT LINE	RINGER IN SET	BL-W	W-BL	BR-W	W-BR	W-0	0-W	G-W	W-G	S-W	W-S	S-R	S-G	R-Y	G-Y	BL	W	R	ВК	S	S-R
1	٠							L2	Li	3	4	5	6	E1	E2	R-W	W	L2	L1	L2	L1	E1	E2	R-W	w	K	A
1					11			L2	L1	3	4	5	6	E1	E2	R-W	w	L2	L1	L2	Lı	E1	E2	1	2	K	A
1								L2	L1	3	4	5	6	E1	E2	R-W	w	G	R	L2	L1	E1	E2	R-W	w	К	A
2								1	2	3	4	5	6	E1	E2	R-W	w	L2	L1	1	2	E1	E2	R-W	W	К	A
2		٠						1	2	3	4	5	6	E1	E2	R-W	w	L2	L1	1	2	E1	E2	R-W	w	A	A
2								1	2	3	4	5	6	E1	E2	R-W	W	L2	L1	R-W	w	E1	E2	E1	E2	A	A

TABLE F
511A/B LINE AND RINGER CONNECTIONS (EXTERNAL CONNECTIONS)

		(SIGNA	LING INC	TURES LUDED URES)	WITH	ALL						EX	TERNAL C	DNNECTIONS	FOR MOUN	TING CORD					
LINES	IN	IGER SET D AS	U	IRN KE SED TO UT OF	0	EXCLU KE USEI CUT	TO	u	NE	LI	NE 2	SIG		EXCLU		CUT	OFF UIT	LINI OR 2 LIP RINI	(E	COM PVT RIN	GER
UP CI		OR PVT RINGER	EOR		RY:	80 8							**					(NO	TE)	CIRC	TIUIT
PICKED UP	LINE	COM OR	EXT STA OR EXT LINE	RINGER IN SET	AUXILIARY	EXT STA CEXT LINE	RINGER IN SET	RING	TIP	RING	TIP	s	GRD	RING	TIP	RING	TIP	RING	TIP	R	9
1								BL-W	W-BL			W-O	O-W	G-W	W-G	BR-W	W-BR	S-W	W-S		
1								BL-W	W-BL			W-O	o-w	G-W	W-G	BR-W	W-BR				
1		611						BL-W	W-BL			W-O	o-w	G-W	W-G	BR-W	W-BR	S-W	W-S		
2								BL-W	W-BL	BR-W	W-BR	W-O	o-w	G-W	W-G			S-W	W-S		H
2					THE			BL-W	W-BL	BR-W	W-BR	w-o	o-w	G-W	W-G					S-W	W-5
2					1			BL-W	W-BL	BR-W	W-BR	W-O	o-w					1 - 1	-	s.w	W-S

Note: Refer to note 5, Fig. 6.



#### NOTES:

- (S-W) LINE SWITCH LEAD IS CONNECTED TO F TERMINAL IN DIAL SETS AND TO RR TERMINAL IN MANUAL SETS.
- EARLY MODEL SETS ARE EQUIPPED WITH DIOF (MD) OR DIOH (MD) MOUNTING CORD AND CURRENT MODEL WITH DIOP.
- 3. TWO-LINE PICKUP CONNECTIONS IN TABLE E PROVIDE FOR EXCLUSION ON LINE 1. FOR EXCLUSION ON LINE 2, CONNECT (R-Y) AND (G-Y) EXCLUSION KEY LEADS TO TERMINALS 3 AND 4, RESPECTIVELY.
- 4. A 7-TYPE BUZZER ON A 44B BRACKET MAY BE SUBSTITUTED FOR THE RINGER AS A COMMON OR PRIVATE LINE AUDIBLE SIGNAL.
- FOR RINGER CONNECTIONS, TERMINATE (W-S) OR [BR-BK] AND (S-W) OR [BR-Y] LEADS TO LINE I OR 2 AT CONNECTING BLOCK.

- LINE SWITCH SEQUENCE, HANDSET REMOVED: bc-MAKES de-MAKES
  - DP-DIAL PULSE CONTACTS
    ON-DIAL OFF-NORMAL CONTACTS
    ( ) CURRENT COLOR CODE
  - [ ] MD COLOR CODE

fg-BREAKS

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Fig. 6-511A/B Telephone Set Connections, 2-Line Pickup, Signaling, and Exclusion

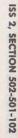
TABLE G
511C/D LINE AND RINGER CONNECTIONS
(INTERNAL CONNECTIONS)

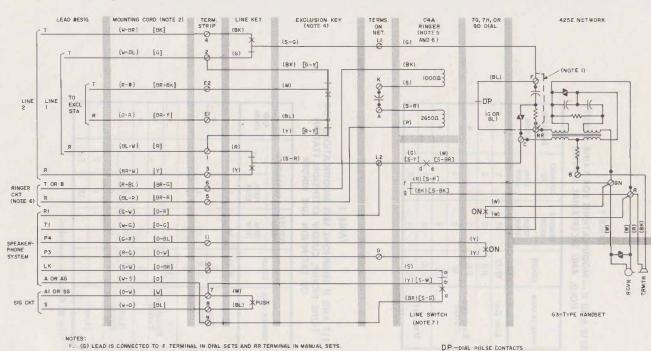
		(SIGN	LING IN	ATURES ICLUDEI ATURES)	WITH	ALL				CONN	ECTIONS	TO TERM	INALS IN	SIDE SI	ET		
VES	RING IN S USER	SET	U	JRN KEY SED TO UT OFF		EXCLUSI KEY US TO CU OFF	ED	MOUN	RD	- K	URN (EY	K LE	USION EY ADS		RIN LEA	4A IGER ADS	
NUMBER OF LINES PICKED UP	œ	COM OR PVT LINE RINGER	N OR	24	IARY /ER	A OR NE	TO CUT OFF		DS	LE	ADS		TE 4, 3. 7)			5 5 AND G. 7)	
NUMBER O	LINE	COM C	EXT STA OR EXT LINE RINGER	RINGER IN SET	AUXILIARY	EXT ST EXT LII RINGE	RINGE IN SET	(BL-W) [R]	(W-BL)	(\$-R)	(5-G)	(Y) [R-Y]	(BK) [G-Y]	(R)	(BK)	(S)	(\$-R)
1	•		•			•		L2	L1	L2	L1	L2	L1	5	6	K	A
1	•		•	•		•		L2	L1	L2	L1	L2	L1	1	2	K	A
1 .	•			•		•		L2	L1	L2	L1	L2	L1	3	4	К	A
1	•				•	•		L2	L1	G	R	L2	L1	5	6	K	A
2	•					•		1	2	L2	L1	1	2	5	6	K	A
-2		•				•		1	2	L2	L1	1	2	5	6	A	A
2		•						1	2	L2	L1	5	6	E1	E2	A	A

- [ ] MD color code.
- ( ) Current color code.

TABLE H
511C/D LINE AND RINGER CONNECTIONS (EXTERNAL CONNECTIONS)

		(SIGNA	FEAT LING INC FEAT	URES LUDED URES)	WITH	ALL							EXT	TERNAL CON	NECTIONS FO	R MOUNT	ING CORE	NOTE 2,	FIG. 7)				
NES	RIN IN USE	IGER SET D AS	US	RN KE SED TO JT OFF		EXCLU KEY L TO (	JSED CUT	LII	NE	LII 2		SIC	SNAL CUIT	EXCI	USION	CUTO	IFF UIT	LINE 2 FOI	1 OR R LINE	COM PVT RIN	LINE GER	BUSY	STA LAMP CUIT
NUMBER OF LINES PICKED UP	*	NGER	L OR		ER	E OR												KIR	IGER	CIRC	CUIT	(NOT	E 3,
PICKED	LINE	COM OR PVT LINE RINGER	EXT STA OR EXT LINE RINGER	RINGER IN SET	AUXILIARY RECEIVER	EXT STA OR EXT LINE RINGER	RINGER IN SET	RING	TIP	RING	TIP	s	GRD	RING	TIP	RING	TIP	RING	TIP	R	В	A OR BL	A1 OF
1			•					R	G			BL	w	BR-Y	BR-BK	Y	BK	BR-R	BR-G	135		0	W
1								R	G			BL	w	BR-Y	BR-BK	Y	BK			ME E		0	W
1						•		R	G	1		BL	w	BR-Y	BR-BK	TITLE		10	1			0	W
1						•		R	G			BL	w	BR-Y	BR-BK	Y	BK	BR-R	BR-G			0	W
2								R	G	Y	вк	BL	w	BR-Y	BR-BK	(1)		BR-R	BR-G	1 50		0	W
2								R	G	Y	вк	BL	w	BR-Y	BR-BK					BR-R	BR-G	0	W
2								R	G	Y	вк	BL	w		12	THE				BR-R	BR-G	0	w





2. OLDER SETS HAVE A DIGD CORD. NEWER SIID SETS HAVE A DIGF CORD.

3. USE A AND AT CONTROL LEADS IN THE I-LINE PICKUP FEATURES ONLY.

4. TWO-LINE PICKUP CONNECTIONS IN TABLE G PROVIDE FOR EXCLUSION ON LINE 1. FOR EXCLUSION ON LINE 2, CONNECT (Y) OR [R-Y] AND (BK) OR [G-Y] EXCLUSION KEY LEADS TO TERMINALS 3 AND 4, RESPECTIVELY.

5. A 7-TYPE BUZZER ON A 44B BRACKET MAY BE SUBSTITUTED FOR THE RINGER AS A COMMON OR PRIVATE LINE AUDIBLE SIGNAL.

6. FOR RINGER CONNECTIONS, TERMINATE (BL-R) OR [BR-R] AND (R-BL) OR [BR-G] MOUNTING CORD LEADS TO LINE I OR LINE 2 AT CONNECTING BLOCK.

7. LINE SWITCH SEQUENCE, HANDSET REMOVED:

de-MAKES

DC-MAKES ab-BREAKS fg-BREAKS

ON - DIAL OFF-NORMAL CONTACTS

( ) - CURRENT COLOR CODE

[ ]-MD COLOR CODE

Fig. 7—511C/D Telephone Set Connections, 2-Line Pickup, Signaling, Exclusion, and Speakerphone

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TABLE I

511F AND H — MODIFICATIONS FOR 1-LINE PICKUP,
HOLD, AND SECRETARIAL SERVICE

	-	REMOVE FROM	CONNECT	INSULATE
WIRE OR LEAD	COLOR	TERM. STRIP	TERM. STRIP	STORE
Line Key	W-O	20	1	
	BR	10	2	
Exclusion	ВК	1		•
Switch	W	9	1	
1	Y	2		•
	V-O	11	17	
Mtg. Cord	G-R	17	16	TOP by I

TABLE J

511F AND H TELEPHONE SETS MODIFICATIONS FOR
1-LINE PICKUP, CUTOFF EXTENSION STATION
OR EXTENSION LINE RINGER

WIRE OR LEAD	COLOR	REMOVE FROM	CONNI	ест то	INSULATE
WIRE OR LEAD	COLOR	TERM. STRIP	TERM. STRIP	NET	STORE
	W-O	20	3		
Line	R	2			•
Key	S-R	15	2		
	V	2			
	BK	1			•
Exclusion Switch	Y	2			•
DW FUCIA	S	3			•
Line	BR	20	3		
Switch	G	15	2		
Q1 #			1	F	
Strap*			18	L2	

<sup>\*</sup>Use M1W cord or equivalent

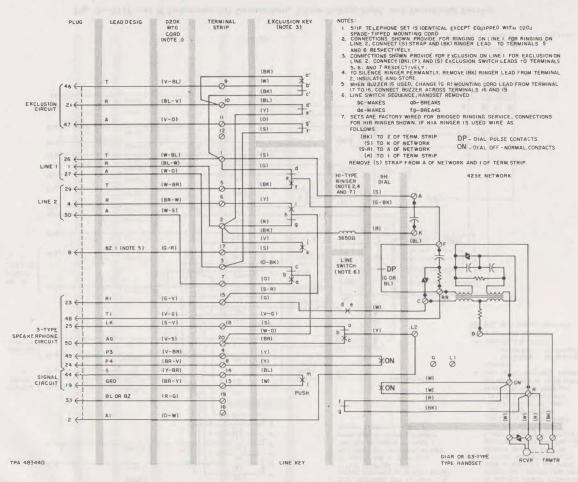


Fig. 8—511F and H Teléphone Set Connections, 2-Line Pickup With Exclusion on Line 1, Signaling, and Speakerphone (Factory Wired)

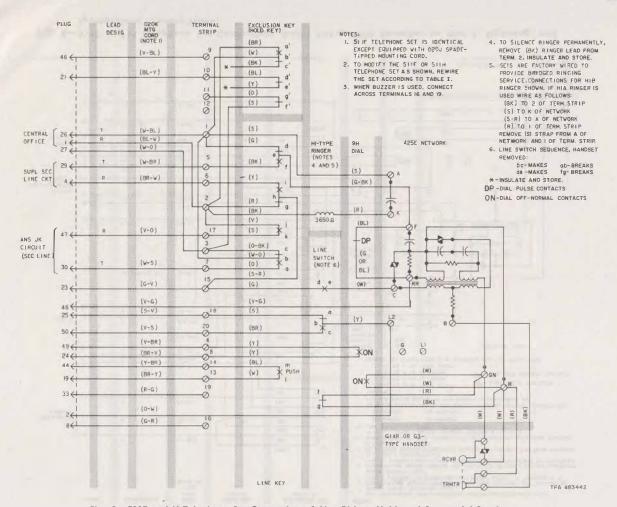
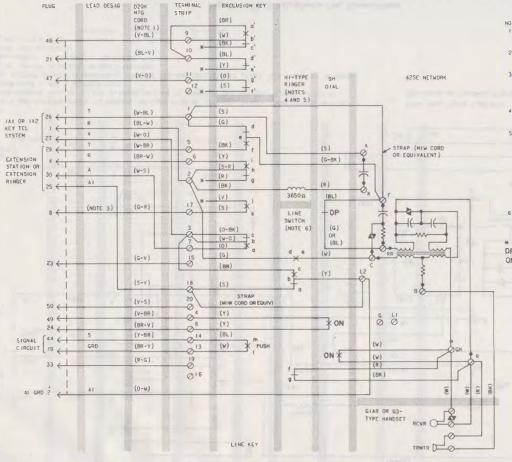


Fig. 9—511F and H Telephone Set Connections, 1-Line Pickup, Hold, and Secretarial Service



NOTES:

- 1. SHE TELEPHONE SET IS IDENTICAL EXCEPT EQUIPPED WITH 020J SPADE-TIPPED MOUNTING CORD.
- 2. TO MODIFY SIJE OR H JELEPHONE SET AS SHOWN, REWIRE SET ACCORDING TO TABLE J.
- 3. WHEN BUZZER IS USED CHANGE (G-R)
  MOUNTING CORD LEAD FROM \*
  TERMINAL I7 TO TERMINAL I6.
  CONNECT BUZZER ACROSS TERMINALS
  16 AND 19.
- TO SILENCE RINGER PERMANENTLY, REMOVE (BK) RINGER LEAD FROM TERMINAL 2 INSULATE AND STORE.
- 5. SETS ABE FACTORY WIRED FOR BRIDGED RINGING SERVICE. CONNECTIONS FOR HIB RINGER SHOWN. IF HIA RINGER IS USED WIRE AS FOLLOWS:

  (EK) TO 2 OF TERM. STRIP

  (S) TO 6 OF NETWORK

  (S, R) TO A OF NETWORK

  (R) TO 1 OF TERM. STRIP

  REMOVE (S) STRAP FROM A OF

  NETWORK AND IOF TERM. STRIP
- 6. LINE SWITCH SEQ, HANDSET REMOVED: bc-MAKES ab-BREAKS de-MAKES ig-BREAKS

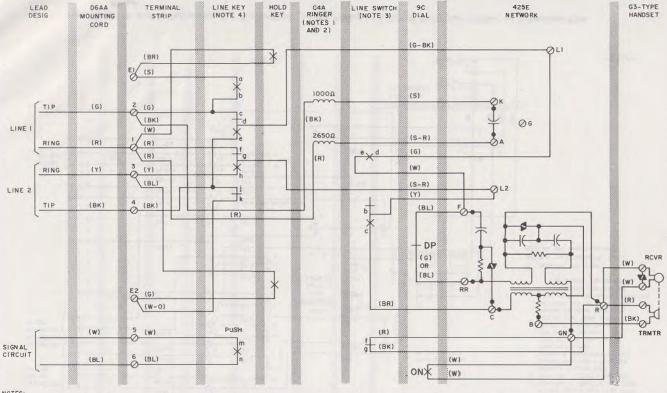
\* - INSULATE AND STORE.

DP-DIAL PULSE CONTACTS

ON-DIAL OFF NORMAL CONTACTS

TPA 483443

Fig. 10—511F and H Telephone Set Connections, 1-Line Pickup and Cutoff Extension Station or Extension Line
Ringer



NOTES:

- I. SETS ARE FACTORY WIRED TO PROVIDE BRIDGED RINGING SERVICE. RINGER CONNECTIONS PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, CONNECT (R) AND (BK) RINGER LEADS TO TERMINALS 3 AND 4 RESPECTIVELY.
- 2. TO SILENCE RINGER PERMANENTLY, CONNECT (R) AND (BK) RINGER LEADS TO A AND K OF NETWORK.

3. LINE SWITCH SEQUENCE, HANDSET REMOVED: bc-MAKES de-MAKES fg-BREAKS

4. LINE KEY SEQUENCE:

LINE | TO LINE 2 Ob - MAKES fg-BREAKS gh-MAKES cd- BREAKS de-MAKES ik-BREAKS DP- DIAL PULSE CONTACTS ON - DIAL OFF-NORMAL CONTACTS

TPA 485427

Fig. 11—515B Telephone Set, Connections

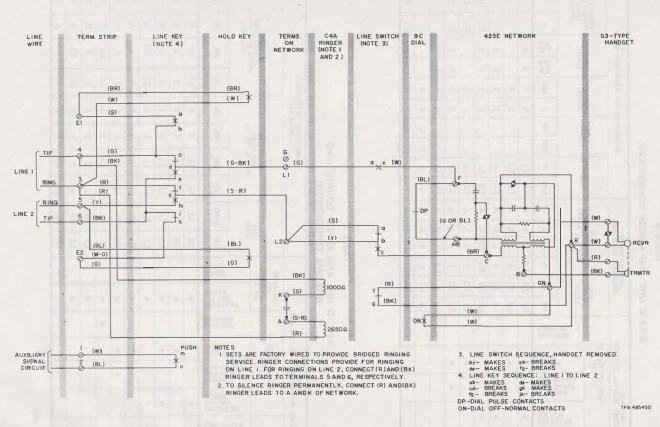


Fig. 12—555B Telephone Set, Connections

TABLE K
558A/B LINE AND RINGER CONNECTIONS

	(SIGNAL	ING INC	FEATUR CLUDED V	RES WITH ALL	FEATURI	S)		CON	NNECTI	ONS T	SET				CONN	ECTION	NS FO	R INSII	DE WIR	E IN S	ET	
ES	RING IN S USED	ET		TURN KEY CUT	USED 1	0	T	URN		RINGER	4A R LEA	os	LIN	IF 4			SIG	NAL	CUT	nee		MON OR
NUMBER OF LINES PICKED UP	4	OR PVT	A OR	A PVT		ARY ER		ADS	(1)	4, FI	2, 3, G. 13	AND )	LIN	IL 1	LIN	E 2	CIR	CUIT	CIRC		RI	NGER RCUIT
PICKE	LINE	COM O	EXT STA OR EXT LINE	EXTERNAL COM OR PVT LINE RINGER	RINGER IN SET	AUXILIARY	S-R	S-G	R	вк	s	S-R	RING	TIP	RING	TIP	s	GRD	RING OR R	TIP OR B	R	8
1	•		•	144	418		L2	L1	L2	L1	K	A	L2	L1			5	6	3	4		
1	•						L2	L1	3	4	K	A	L2	L1			5	6				
1	•		•		•		L2	L1	1	2	K	A	L2	L1			5	6	3	4		
1		•	•		2.5		L2	L1	E1	E2	A	A	L2	L1			5	6	3	4	E1	E2
1		•		7	•		E1	E2	3	4	A	A	L2	L1			5	6			E1	E2
1		•		•	•		E1	E2	1	2	A	A	L2	L1			5	6	3	4	E1	E2
1	•					•	GN	R	L2	L1	K	A	L2	L1			5	6	3	4		
2	•	0				1	L2	L1	1	2	K	A	1	2	3	4	5	6		1		
2		• 1			8 1		L2	L1	E1	E2	A	A	1	2	3	4	5	6			E1	E2

TABLE L

558C/D LINE AND RINGER CONNECTIONS (INTERNAL CONNECTIONS)

	(5	SIGNALII	NG INCLU	EATURES DED WITH	I ALL F	EATURES	()					CONN	ECTIONS INSI	TO TER	MINALS			
IES	IN	GER SET D AS	Т	URN KEY CUT	USED T	0	EXCLU KE USED CUT	Y TO	K	IRN EY		EXCLU KEY L	EADS			C4 RINGER NOTES 6,	LEADS	R
OF LIN		Of PVT RIMBER	OR	PVT		7.84	OR	-	LE	ĀDS	13	(NOTE 5,	FIG. 14			FIG.	14)	,
NUMBER OF LINES PICKED UP	LINE	COM Off	EXT STA OR EXT LINE RINGER	EXTERNAL COM OR PVT LINE RINGER	RINGER IN SET	AUXILIARY	EXT STA O	RINGER IN SET	(S-R)	(G-BK) [S-G]	(Y) [R-Y]	(BK) [G-Y]	(W)	(BL)	(R)	(BK)	(S)	(S-R)
1	•		•				•		L2	L1	L2	L1	5	6	L2	L1	К.	A
1				n A	•		•		L2	L1	L2	L1	5	6	3	4	K	A
1	•		•		•		•		L2	L1	L2	L1	5	6	1	2	K	A
1		•	•				•		L2	L1	L2	L1	5	6	E1	E2	A	A
1		•			•		•		E1	E2	L2	L1	5	6	3	4	A	A
1		•		•	•		•		E1	E2	L2	L1	5	6	1	2	A	A
1	•			100		•	•	HIL	G	R	L2	L1	5	6	L2	L1	K	A
2	•						•		L2	L1	1	2	5	6	1	2	K	A
2		•			T = 1		•		L2	L1	1	2	5	6	E1	E2	A	A
2		•			1			•	L2	L1	E1	E2	5	6	5	6	A	A

<sup>( )</sup> Current color code.

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<sup>[ ]</sup> MD color code.

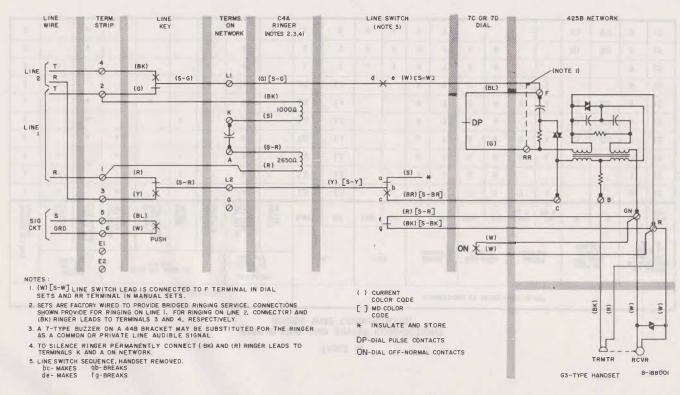


Fig. 13—558A/B (MD) Telephone Set Connections, 2-Line Pickup and Signaling

TABLE M

558C/D LINE AND RINGER CONNECTIONS
(INSIDE WIRE CONNECTIONS)

(SIGNALING INCLUDED WITH ALL FEATURES)								CONNECTIONS TO INSIDE WIRE IN SET														
NUMBER OF LINES PICKED UP	RINGER IN SET USEO AS		TURN KEY USED TO CUT OFF				EXCLUSION KEY USED TO CUT OFF		LINE		LINE 2		SIGNAL CIRCUIT		EXCLUSION CIRCUIT		CUTOFF		COM OR PVT LINE RINGER		KEY EQUIP. OR STA BUSY LAMP CKT	
		PVT	OR	PVT		× ×	EXT STA OR EXT LINE RINGER	RINGER IN SET					omou!		CIRCUIT		5,11,3011		CIRCUIT		(NOTE 3, FIG. 14)	
	LINE	COM OR PVT LINE RINGER	EXT STA OR EXT LINE RINGER	EXTERNAL COM OR PUT LINE RINGER	RINGER IN SET	AUXILIARY RECEIVER			RING	TIP	RING	TIP	S	GRD	RING	TIP	RING OR R	TIP OR B	R	В	A or BL	A1 or GRD
1	•		•	4 1		A.	•		L2	L1			8	7	5	6	3	4		W.	9	12
1	•				•		•		L2	L1	2.9	-	8	7	5	6		•			9	12
1	•		•		•				L2	L1			8	7	5	6	3	4			9	12
1			•						L2	L1			8	7	5	6	3	4	E1	E2	9	12
1		•			•		•		L2	L1			8	7	5	6	4		E1	E2	9	12
1				•	•		•		L2	L1			8	7	5	6	3	4	E1	E2	9	12
1									L2	L1	3		8	7	5	6	3	4			9	12
2	•						•		1	2	3	4	8	7	5	6			ram AA		9	12
2		•					•		1	2	3	4	8	7	5	6			E1	E2	9	12
2						-		•	1	2	3	4	8	7					E1	E2	9	12

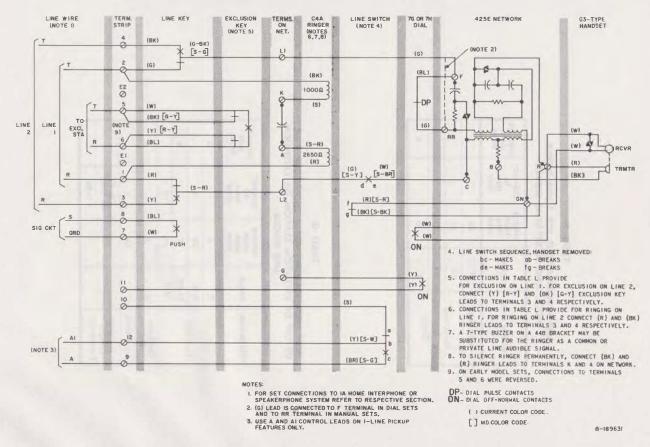


Fig. 14—558C/D Telephone Set Connections, 2-Line Pickup, Signaling, Exclusion, and Control Leads

TABLE N
558F MODIFICATIONS FOR 1-LINE PICKUP,
HOLD, AND SECRETARIAL SERVICE

WIRE OR LEAD	COLOR	REMOVE FROM TERM. STRIP	CONNECT TO TERM. STRIP	INSULATE AND STORE
Line Key	W-O	20	1	
Exclusion	BR	10	2	_ g#
Key	W	9	1	
(Hold)	Y	2		

TABLE O

558F MODIFICATIONS FOR 1-LINE PICKUP AND
CUTOFF OF EXTENSION STATION OR EXTENSION
LINE RINGER

WIRE OR LEAD	COLOR	REMOVE FROM TERM. STRIP	CONNECT TO TERM. STRIP	INSULATE AND STORE	
	R	2			
T . Tr	S-R	15	2		
Line Key	О-ВК	3		•	
	W-O	20	3		
Exclusion Key	Y	2			
Line Switch	G	15	2	100	
Strap M1W Cord or			1 to F on Net.		
Equivalent			3 to 20		

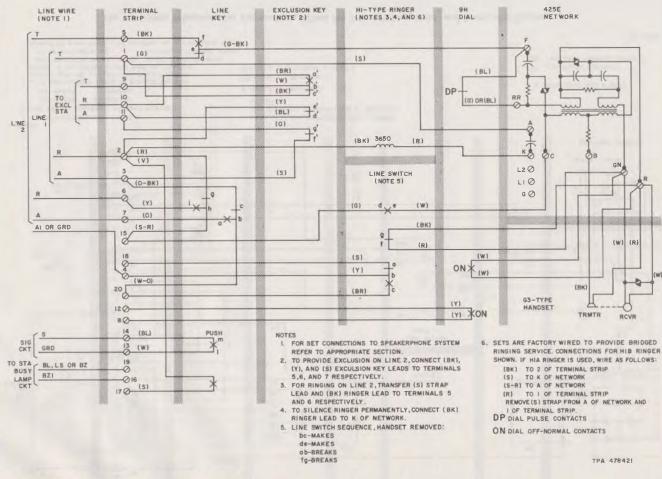


Fig. 1S-558F Telephone Set Connections, Wired For 2-Line Pickup With Exclusion on Line 1 and Signaling

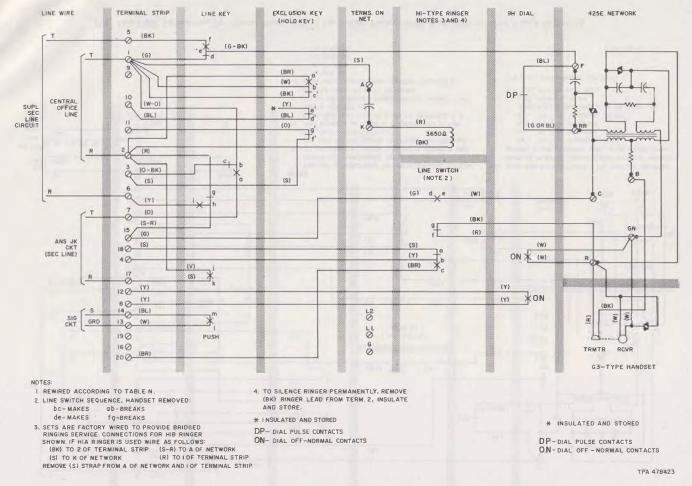


Fig. 16—558F Telephone Set Connections, Wired For 1-Line Pickup, Hold, and Secretarial Service

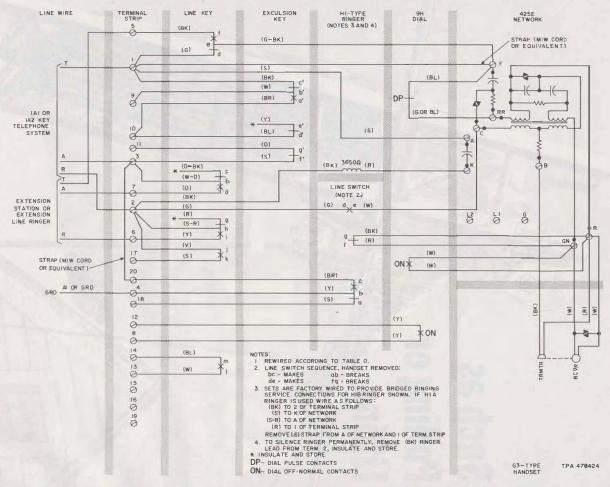


Fig. 17—558F Telephone Set Connections, Wired For 1-Line Pickup and Cutoff Extension Station or Extension Line Ringer

