SERVICE

500R/S AND 500SM TELEPHONE SETS

CONNECTIONS

1. GENERAL

1.01 This section contains information on the 500R/S (MD) and 500SM telephone sets.

1.02 This section is reissued to:

- Show 500R/S telephone sets MD

- Revise Fig. 2 to update information.

◆ TABLE A ◆

LINE AND C4B RINGER CONNECTIONS
500R/S AND 500SM

WIRE OR LEAD (NOTE 1)	COLOR	RING PARTY	TIP PARTY NO IDENT GROUND
Mtg Cord in Set 500R/S	(W-BL) [G]	F	F
623D4 Jack 500SM	(G)	F	F
Move Strap from F Term on Net. to	(G)	E1	
Move Strap from Term. 3 to	(S)		E1
C4B Ringer (Note 2)	(R) (BK)	K G	K G
Mtg Cord at Conn Block (Line Only) 500R/S	(G-W) [R] (W-BL) [G] (BL-W) [BR-G]	Ring Tip Ring	Tip Ring Tip
Line Wire at Conn Block 500SM	(R) (G)	Ring Tip	Ring Tip

Note 1: Only the optional leads are shown in the table. Connections for the remaining leads are shown in Fig. 1 and 2.

Note 2: To permanently silence ringer, refer to Section 501-250-303.

( ) Current color code.

[ ] MD color code.

TABLE B
LINE AND C4A RINGER CONNECTIONS 500R/S

WIRE OR LEAD	COLOR	INDIV OR BRIDGED	RING PARTY	TIP PARTY NO IDENT GROUND	TIP PARTY IDENT GRD	
					1000Ω	2650Ω
Mtg Cord in Set	(W-BL) [G]	G	F	F	F	F
Strap from G Term. on Net. to	(G)	F	E1	E1	E1	E1
C4A Ringer	(R) (BK) (S) (S-R)	L2 G K A	L2 G K A	L2 G K A	K G B B	B B K G
Line Switch	(W-S) [S-BR]	Term. 2	Term. 2	Term. 2	A of Net.	A of Net.
Mtg Cord at Conn. Block (Line Only)	(G-W) [R] (W-BL) [G] (BL-W) [BR-G]	Ring Tip Ring	Ring Tip Ring	Tip Ring Tip	Tip Ring Tip	Tip Ring Tip
Strap from A To L2 on Net.	(S)	*	*	*	*	*
44A Conn Block Strap		1 to 6	1 to 6	2 to 6	2 to 6	2 to 6

Note: To permanently silence ringer, refer to Section 501-250-303.

* Remove strap, if in place, when using C4A ringer.

( ) Current color code
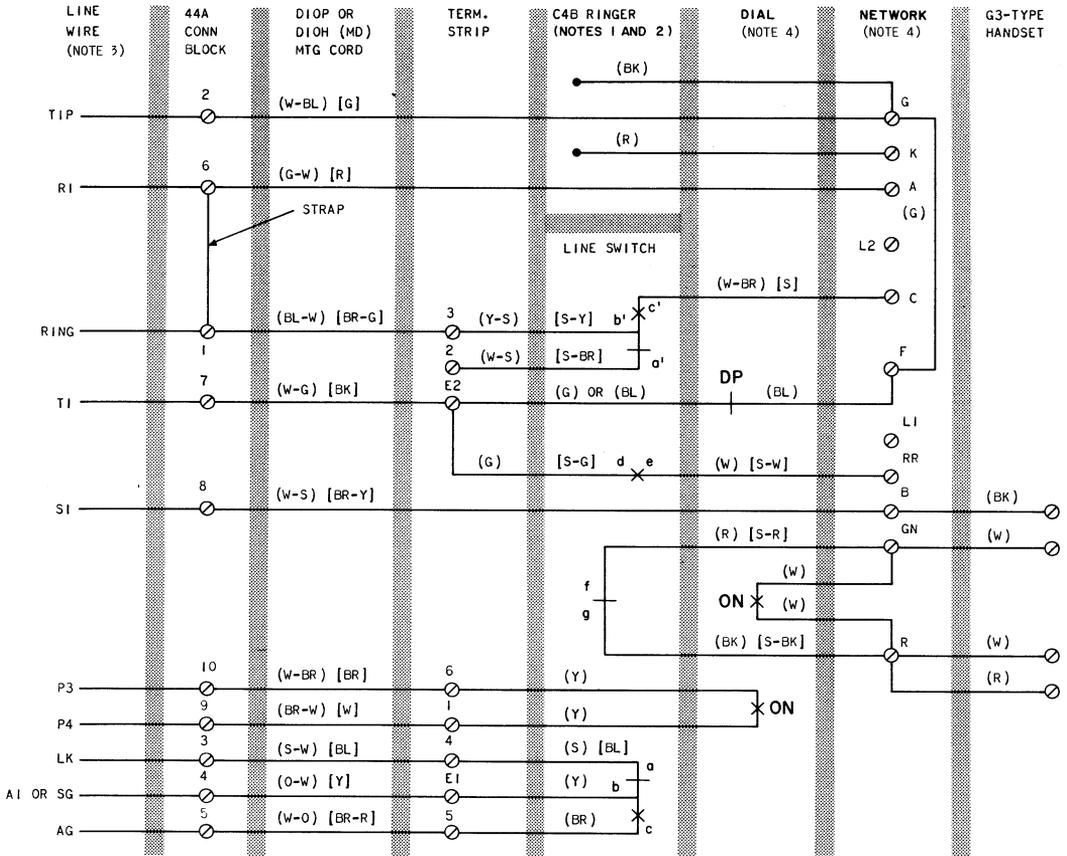
[ ] MD color code

LINE WIRE (NOTE 3)	44A CONN BLOCK	DIOP OR DIOH (MD) MTG CORD	TERM. STRIP	C4B RINGER (NOTES 1 AND 2)	DIAL (NOTE 4)	NETWORK (NOTE 4)	G3-TYPE HANDSET

(BK)

TIP — 2 (W-BL) [G] — G

(R)

RI — 6 (G-W) [R] — K

A

STRAP (G)

LINE SWITCH L2

(W-BR) [S] — C

RING — 1 (BL-W) [BR-G] — 3 (Y-S) [S-Y] b' c' F

2 (W-S) [S-BR] a'

DP (BL)

TI — 7 (W-G) [BK] — E2 (G) OR (BL) L1

(G) [S-G] d e (W) [S-W] RR B

SI — 8 (W-S) [BR-Y] — (BK)

(R) [S-R] GN (W)

(W)

ON (W)

f g

(BK) [S-BK] R (W)

P3 — 10 (W-BR) [BR] — 6 (Y) (R)

P4 — 9 (BR-W) [W] — 1 (Y) ON

LK — 3 (S-W) [BL] — 4 (S) [BL]

AI OR SG — 4 (O-W) [Y] — E1 (Y) a b

AG — 5 (W-O) [BR-R] — 5 (BR) c

NOTES:
1. SET WIRED FOR BRIDGED SERVICE. REFER TO TABLE A FOR OTHER CLASSES OF SERVICE AND TO SILENCE RINGER.
2. IF C4A RINGER IS USED, REFER TO TABLE B FOR ALL CLASSES OF SERVICE.
3. FOR CONNECTIONS TO SPEAKERPHONE REFER TO APPROPRIATE SECTION IN DIVISION 512.
4. FOR MANUAL SERVICE, REPLACE DIAL WITH AN APPARATUS BLANK AND TRANSFER (G) STRAP FROM F TERMINAL ON NETWORK TO E2 TERMINAL ON TERMINAL STRIP.

LEGEND:
( ) CURRENT COLOR CODE
[ ] MD COLOR CODE
DP – DIAL PULSE CONTACT
ON – DIAL OFF-NORMAL CONTACT

Fig. 1—◆500R/S (MD) Telephone Set, Connections◆

| LINE WIRE | 153-TYPE, ADAPTER, 625-TYPE OR 74D CONN BLOCK | D4BU-29 MTG CORD (NOTE 3) | 623D4 JACK | TERM. STRIP | C4B RINGER (NOTES 1) | DIAL | NETWORK | 616D JACK | H4DU HANDSET CORD (NOTE 3) | G15A HANDSET |

(BK)

TIP — (G) (G) G
K
(R) A
(S) STRAP L2
A (BK) (BK) LINE SWITCH (NOTE 4)
(W-BR) C
(G) STRAP
RING (R) (R) 3 (Y-S) b' c' F
A1 (Y) (Y) 2 (W-S) a'
E2 DP
(BL) (BL)
L1
RR
(G) d e (W) B
(R) GN (BK) (BK)
f (W) (G) (G)
g ON (W) R (R) (R)
(BK) (W) (W)

6 (Y)
1 ON
4 (Y)
(S) a
E1 (Y) b
5 (BR) c

NOTES:
1. SET WIRED FOR BRIDGED SERVICE. REFER TO TABLE A FOR OTHER CLASSES OF SERVICE AND TO SILENCE RINGER.
2. FOR CONNECTIONS TO 4A SPEAKERPHONE REFER TO APPROPRIATE SECTION IN DIVISION 512.
3. MUST BE ORDERED SEPARATELY.
4. TO PREVENT A FALSE HOLD CONDITION WHEN GOING ON HOOK, THE TIP AND RING CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE THE "A" LEAD CONTACTS BREAK.
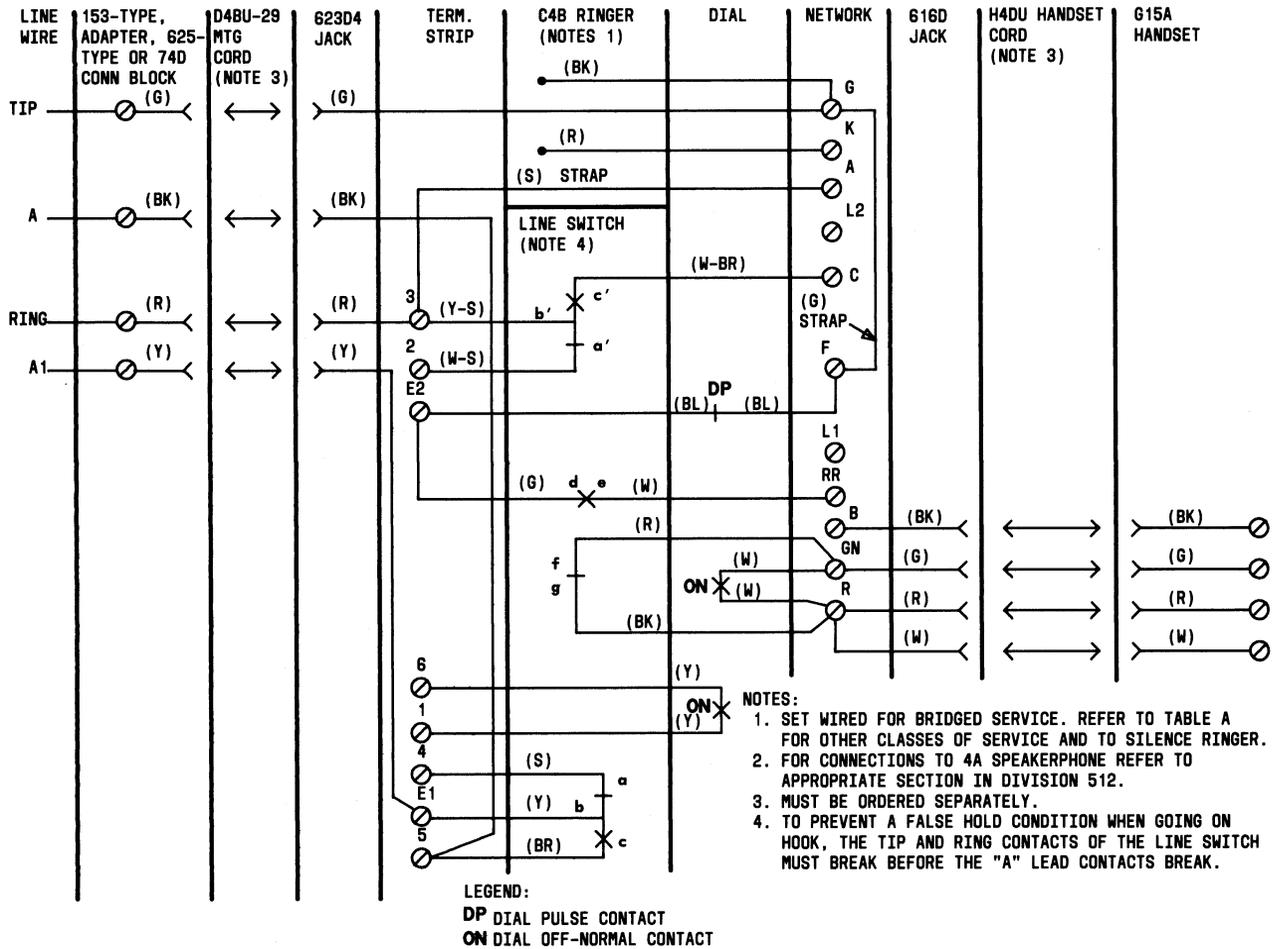
LEGEND:
DP DIAL PULSE CONTACT
ON DIAL OFF-NORMAL CONTACT

Fig. 2—500SM Telephone Set—Connections