

KS-19594 DIALER

SWITCHBOARD AND MISCELLANEOUS KEY EQUIPMENT

CONNECTIONS

1. GENERAL

1.01 This section is reissued to:

- Change connection terminations of dialer telephone cord at equipment, Table A

Changes or additions in the body of tables are indicated by shaded areas.

2. CONNECTIONS



The power supply cord should not be connected to the AC power line receptacle when removing the housing or making any connections.

2.01 **Power Supply Unit:** Refer to dialer installation section for mounting instructions.

2.02 **Dialer Telephone Cord:**

- Standard six conductor cord
- Secure inside the equipment under a cord clamp or by taping to set mounting cord or cable.
- Dress wires to allow proper operation of equipment

2.03 Refer to appropriate tables and figures in this section for terminations of dialer cord leads.



Test the operation of the dialer by recording and calling the telephone number usually called for job completion. For installation with speakerphones, be sure to test with speakerphones operating to insure proper connection to off normal contacts.

2.04 Connection Index:

Table A—Dialer Connections To Consoles, Key Equipment, Apparatus Units, and Key Mountings

Table B—Dialer Connections To Switchboards

Fig. 1—KS-19594 Dialer, Power Supply Connections

Fig. 2—KS-19594 Dialer Connections to Switchboards With Both Rotary and TOUCH-TONE Dials

Fig. 3—KS-19594 Dialer Connections Requiring a KTU, to Switchboards With Both Rotary and TOUCH-TONE Dials

Fig. 4—KS-19594 Dialer Connections to Switchboards With TOUCH-TONE Dials Only

Fig. 5—KS-19594 Dialer Connections Requiring a KTU, to Switchboards With TOUCH-TONE Only

TABLE A

DIALER CONNECTIONS TO CONSOLES, KEY EQUIPMENT, APPARATUS UNITS, AND KEY MOUNTINGS

KS-19594 DIALER TEL CORD		CONSOLES WITH ROTARY DIALS					10A, 11A FOR USE WITH 2A AUTOMATIC CALL DISTRIBUTION SYSTEM
		1A 2A	3A	4A	3C1 3C2 4B1 4B2	5A 5B 6A 6B	
P U L S I N G	R	Remove BL dial lead from 1 of the dial term. strip and	Remove Y dial lead from 6 of term. strip TS1 and	Remove BL dial lead from 2 of term. strip TS2 and	Remove BL lead from F of the network and	Connect to R of dialer tel cord with D-161488 connector	
	G	1 of the dial term. strip	6 of term. strip TS1	2 of term. strip TS2	F of the network		
O F - N O R M A L	W	GN* term. on the network	1 of term. strip TS2		GN term. on the network		
	BL	R* term. on the network	2 of term. strip TS2	14 of term. strip TS2	R term. on the network		
S P E A K E R P H O N E	Y	Insulate and store in the console					
	BK	Insulate and store in the console					

* Connect to terminals 3 and 4 of dial terminal strip when console is used with 757A PBX.

TABLE A (Cont)

DIALER CONNECTIONS TO CONSOLES, KEY EQUIPMENT, APPARATUS UNITS, AND KEY MOUNTINGS

KS-19594 DIALER TEL CORD		CONSOLES WITH ROTARY DIALS (Cont)					
		10A, 11A FOR USE WITH 3A ACD SYS	10B 11B	12A1	12B1	14A1 14A3 15A1 15A3	16-TYPE
P U L S I N G	R	Remove BL dial lead from 7 of term. board TB1 and	Remove BL dial lead from 3 of term. board TB1 and	Remove BL dial lead from 9 of term. board TB3 and	Remove BL dial lead from 2 of term. board TB2 and	Remove BL dial lead from 8 of term. board and	Remove BL dial lead from 9 of term. board TB1 and
	Connect to R of dialer tel cord with D-161488 connector						
	G	7 of term. board TB1	3 of term. board TB1	9 of term. board TB3	2 of term. board TB2	8 of term. board	9 of term. board TB1
O F F - N O R M A L	W	GN term. on the network					
	BL	R term. on the network					
S P E A K E R P H O N E	Y	Insulate and store in console					TB1-4*
	BK	Insulate and store in console					TB1-9*

* This is not a speakerphone function.

TABLE A (Cont)

DIALER CONNECTIONS TO CONSOLES, KEY EQUIPMENT, APPARATUS UNITS, AND KEY MOUNTINGS

KS-19594 DIALERS TEL CORD		APPARATUS UNITS WITH ROTARY DIALS			KEY EQUIPMENT WITH ROTARY DIALS		KEY MOUNTINGS WITH ROTARY DIALS		
		12A, 14A FOR USE WITH 2A AUTOMATIC CALL DISTRIBUTION SYSTEM	12A, 14A FOR USE WITH 3A AUTOMATIC CALL DISTRIBUTION SYSTEM	12B, 14B FOR USE WITH 2A OR 3A AUTOMATIC CALL DISTRIBUTION SYSTEM	4A USING 634(MD) SUBSCRIBER SET AND 6026 TYPE CONTROL KEY	4A USING 685 SUB- SCRIBER SET AND 6026 TYPE CONTROL KEY	400 SERIES USING 688-TYPE OR 690-TYPE SUBSCRIBER SET	700 SERIES USING 750-TYPE APPARATUS UNIT	700 SERIES USING 751-TYPE APPARATUS UNIT
P U L S I N G	R	Remove BL dial lead from F of the network and	Remove BL dial lead from term. 5 of TB1 and	Remove BL dial lead from term. 3 of TB1 and	Remove G inside wire from L2-GN sub set and	Remove G inside wire from L2 in sub set and	Remove BL dial lead from F of the network and	Remove Y lead from Y term. of the dial and	
	Connect to R of dialer tel cord with D-161488 connector								
	G	F of the network	5 term. of TB1	3 term. of TB1	L2-GN term. in sub set	L2 term. in sub set	F term. of the network	Y term. of the dial	
O F F - N O R M A L	W	GN term. of the network			BK term. of the sub set	GN term. of the network		1 term. of the apparatus unit term. strip	17 term. of the handset mounting
	BL	R term. of the network						2 term. of the apparatus unit term. strip	16 term. of the handset mounting
S P E A K E R P H O N E	Y	Insulate and store							
	BK	Insulate and store							

TABLE A (Cont)

DIALER CONNECTIONS TO CONSOLES, KEY EQUIPMENT, APPARATUS UNITS, AND KEY MOUNTINGS

KS-19594 DIALER TEL CORD		CONSOLES WITH TOUCH-TONE DIALS				
		1A 2A	1B 2B	3C3 3C4 4B3 4B4	5B 6B	10B 11B
P U L S I N G	R	Remove G dial lead from term. 7 of the term. board and Connect to R of dialer tel cord with D-161488 connector		Remove G dial lead from 11 of term. strip TS2 and	Remove G dial lead from 11 of term. strip TS2 and	Remove G dial lead from 1 of the 151E amplifier and
	G	Term. 7 of the term. board		11 of term. strip TS2	11 of term. strip TS2	1 of 151E amplifier
O F F - N O R M A L	W	GN term. on the network*		GN term. on the network	3 of term. strip TS2	GN term. on the network
	BL	R term. on the network*		R term. on the network	4 of term. strip TS2	R term. on the network
S P E A K E R P H O N E	Y	Insulate and store				
	BK	Insulate and store				

* Connect to terminals 9 and 10 of the TT dial terminal board when console is used with 757A PBX

TABLE A (Cont)

DIALER CONNECTIONS TO CONSOLES, KEY EQUIPMENT, APPARATUS UNITS, AND KEY MOUNTINGS

KS-19594 DIALER TEL CORD		CONSOLES WITH TOUCH-TONE DIALS			APPARATUS UNIT WITH TOUCH-TONE DIAL	KEY MOUNTING WITH TOUCH-TONE DIAL
		12B2	14A2 14A4 15A2 15A4	16-TYPE†	12B, 14B FOR USE WITH 2A OR 3A ACD SYS	1400 SERIES USING 1690-TYPE SUB SET
P U L S I N G	R	Remove G dial lead from 7 of term. strip TB4 and	Remove G dial lead from 4 of the term. board and	10 of Term. strip TB1 and remove strap between term. strip TB1 8 and 9	Remove G dial lead from term. 1 of the 151E amplifier and	Remove G dial lead from L1 of the net- work and
	G	7 of term. strip TB4	4 of the term. board	9 of the term. strip TB1	Term. 1 of the 151E amplifier	L1 of the network
O F F - N O R M A L	W	GN term. on the network				
	BL	R term. on the network				
S P E A K E R P H O N E	Y	Insulate and store		TB1-4*	Insulate and store	
	BK	Insulate and store		TB1-9*	Insulate and store	
61A Filter Leads	R Y BK			TB1-8 TB1-10 TB1-9		

♦ * This is not a speakerphone function.

† Add 61A filter (ordered separately) for RF suppression. ♦

TABLE B

DIALER CONNECTIONS TO SWITCHBOARDS

KS-19594 DIALER TEL CORD		SWITCHBOARDS		
		551A, B, D 552A, B, D, E 605A (NOTES 1, 2, 8)	555 556A 557A, B (NOTES 3, 4, 5, 8)	608A, B, D (NOTES 6, 7, 8)
P U L S I N G	R	Term. 3 of 10-141 term. strip		Term. 3 of 10-141 term. strip
	G	Term. 5 of 10-141 term. strip	Term. 2 of 10-141 term. strip	Term. 5 of 10-141 term. strip
O F F - N O R M A L	W	Term. 1 of 10-141 term. strip	Term. 8 of 10-141 term. strip	Term. 1 of 10-141 term. strip
	BL	Term. 2 of 10-141 term. strip	Term. 9 of 10-141 term. strip	Term. 2 of 10-141 term. strip
S P E A K E R P H O N E	Y	Insulate and store		
	BK	Insulate and store		

Note 1: Mount 10-141 terminal strip under keyshelf adjacent to wire entrance hole for dial. Rewire 6044B dial mounting as follows:

ROTARY OR ROTARY AND TOUCH-TONE DIALS (FIG. 2)				
LEAD	REMOVE FROM 6044B	CONNECT TO 10-141	CONNECT STRAPS	
			FROM 6044B	TO 10-141
R	R	1	R	1
G or BL	GN	2	GN	2
BL	B	3		
Y	Y	4	Y	4
			B	5

TOUCH-TONE DIAL ONLY (FIG. 4)*				
LEAD	REMOVE FROM 6044B	REMOVE FROM 10-141	CONNECT STRAP	
			FROM 10-141	TO 10-141
R	R	1		
G or BL	GN	2		
BL	B	5		
Y	Y	4	4	5

* 551 PBX — Place strap from 1 of B relay to 2RT of F relay.

Note 2: If dialer is disconnected, leave 10-141 terminal strip in place and strap 3 to 5.

Note 3: Mount 17B KTU in 105B apparatus box on side of switchboard and 10-141 terminal strip under keyshelf adjacent to wire entrance hole for dial. Rewire 6044B dial mounting as follows:

ROTARY OR ROTARY AND TOUCH-TONE DIALS (FIG. 3)					
LEAD	REMOVE FROM 6044B	CONNECT TO 10-141	CONNECT STRAPS		
			FROM 10-141	TO 6044B	TO 17B
R	R	1	1	R	9
G or BL	GN	3	3		7
BL	B	7	7		5
Y	Y	4	4	Y	
W	W	6	6	W	
			2	GN	
			5	B	4
			8		1

Note 4: Connect terminal 9 of 10-141 terminal strip to PBX ground and terminal 3 of 17B KTU to PBX battery. If PBX battery is -48 volts, connect 1000-ohm resistor (KS-13490L1) in battery lead to 17B KTU:

TOUCH-TONE DIALS ONLY (FIG. 5)					
LEAD	REMOVE FROM 6044B	REMOVE FROM 10-141	CONNECT STRAPS		
			FROM 10-141	TO 10-141	TO 17B
R	R	1	1		9
G or BL	GN	2			
B	B	5	5		4
Y	Y	4	4	2	
W	W	6	6	5	
			3		7
			7		5
			8		1

Note 5: If dialer is disconnected, remove 17B KTU. Leave 10-141 terminal strip and strap terminals 2 to 3 and 5 to 7.

Note 6: Mount 10-141 terminal strip under keyself adjacent to wire entrance hole for dial. Rewire 6044B dial mounting as follows using strapwire and D-161488 connectors to extend wiring from KS-16323 connector:

ROTARY OR ROTARY AND TOUCH-TONE DIALS (FIG. 2)				
LEAD FROM KS-16323 CONN PIN NUMBER	REMOVE FROM 6044B	CONNECT TO 10-141	CONNECT STRAPS	
			FROM 10-141	TO 6044B
1	B	3		
2	Y	4	4	Y
3	R	1	1	R
21	GN	2	2	GN
			5	B

TOUCH-TONE DIAL ONLY (FIG. 4)				
LEAD FROM KS-16323 CONN PIN NUMBER	REMOVE FROM 6044B	REMOVE FROM 10-141	CONNECT STRAP	
			FROM 10-141	TO 10-141
1	B	5		
2	Y	4	4	5
3	R	1		
21	GN	2		

Note 7: If dialer is disconnected, leave 10-141 terminal strip in place and strap terminals 3 and 5.

Note 8: Dialer may be connected as shown in Table B to any PBX equipped with rotary or both rotary and TOUCH-TONE dials or TOUCH-TONE dials only. See Fig. 2, 3, 4, and 5. Dialer connections to an early model PBX should be engineered locally.

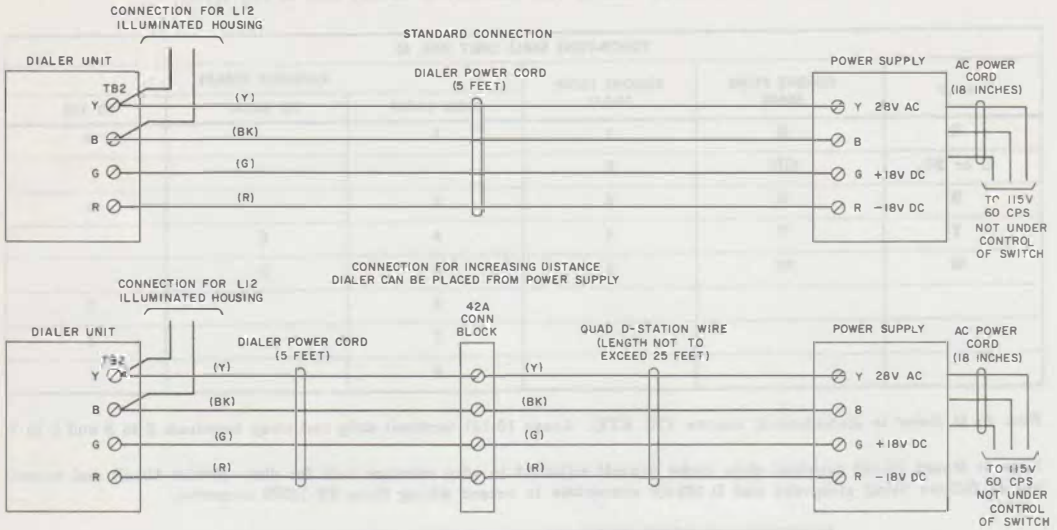


Fig. 1—KS-19594 Dialer, Power Supply Connections

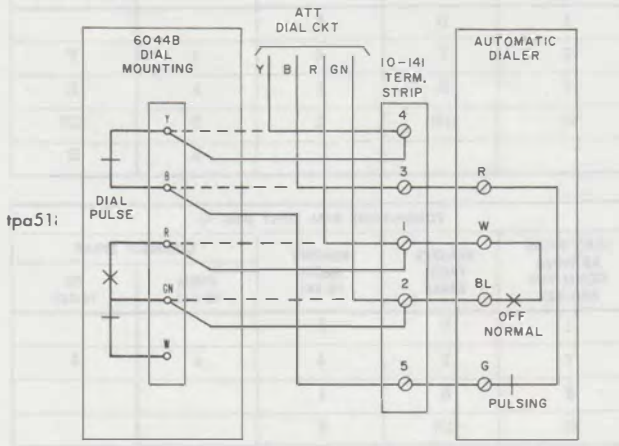
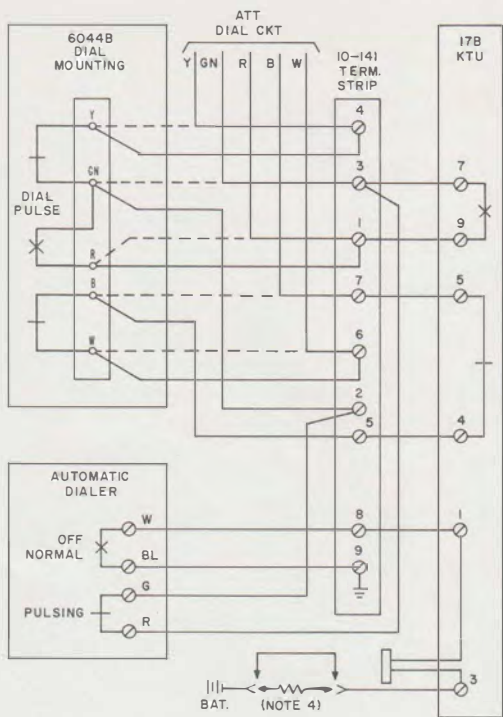


Fig. 2—KS-19594 Dialer Connections to Switchboards With Both Rotary and TOUCH-TONE Dials



◆ Fig. 3—KS-19594 Dialer Connections Requiring a KTU, to Switchboards With Both Rotary and TOUCH-TONE Dials ◆

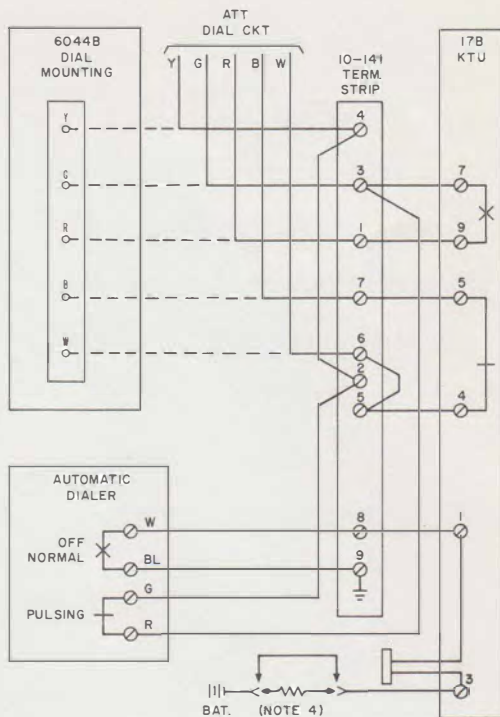


Fig. 5—KS-19594 Dialer Connections, Requiring a KTU, to Switchboards With TOUCH-TONE Dials Only

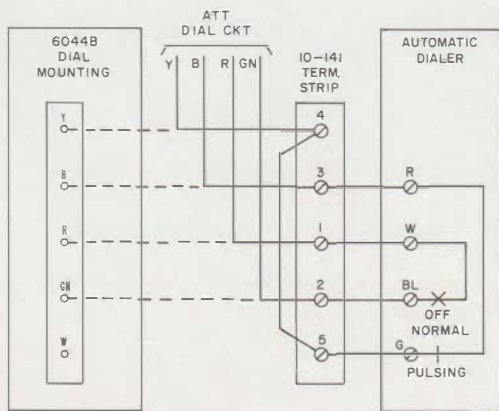


Fig. 4—KS-19594 Dialer Connections to Switchboards With TOUCH-TONE Dials Only