REFERENCE

1662- AND 1664-TYPE TELEPHONE SETS

1. GENERAL

1.01 The 1662- and 1664-type telephone sets (MD) are desk-type, 6-button key telephone sets with a card dialer. They provide automatic and manual TOUCH-TONE calling (Fig. 1, 2, and 3). They are similar in appearances and provide for the following optional features:

- End-to-end signaling

- Operation with 3-type speakerphone (1662-type)

- Exclusion (1662-type)

- Handset or headset operation (1664-type)

Fig. 2—1662A4 or 1662B4 Telephone Set

Fig. 1—1662A1 or 1662B1 Telephone Set

Fig. 3—1664A1 or 1664B1 Telephone Set

1.02 These sets are designed for use in 1A, 1A1, 1A2, and 6A key telephone systems. They are furnished wired for 1A1 or 1A2 systems and are equipped for 5-line pickup, signaling, and holding on central office, PBX, and private or intercommunicating lines.
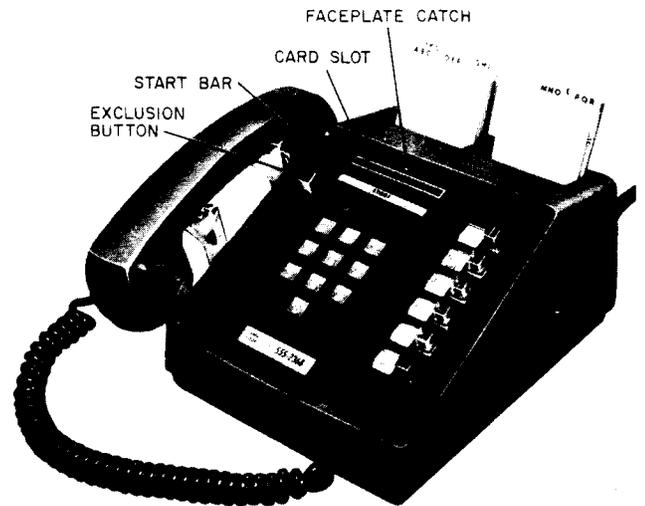
1.03 These sets have electrical and transmission characteristics equivalent to 500-type sets and are available in all standard colors. Refer to Division 500 for promoted and nonpromoted colors.

1.04 For connection information refer to the Service section for the appropriate set.

2. IDENTIFICATION

2.01 Common major components of these sets are:

● Dial

26B (early model) or

26D for 1662A and 1664A types

26F for 1662B and 1664B types

● Handset, G3AR-*

● Key (see Table A)

● Mounting Cord, D50K-*

● Network, 425G (early models had 425E)

● Ringer, M1A

● Line Switch Assembly

P-27E649 for 1662-type

P-24E277 for 1664-type

* Add appropriate color suffix.

2.02 These sets can be converted to provide other key features by replacing the 599A or 657A key. Table A lists the set codes, key options and features provided.

2.03 Exclusion feature can be provided on the 1662-type sets by installing a kit of parts. The addition of exclusion converts set codes 1662A1 or 1662B1, 1662A2 or 1662B2, and 1662A3 or 1662B3 to 1662A4 or 1662B4, 1662A5 or 1662B5, and 1662A6 or 1662B6 respectively. Table B lists the conversion information.

2.04 The exclusion feature, if provided, is actuated by pulling up on the button at the top left of the faceplate (Fig. 2). The exclusion switch is connected to the line switch assembly by a wire link so that exclusion is canceled when the handset is restored.

2.05 The 1664-type telephone sets are equipped with an amplifier and headset jacks to permit either handset or headset operation. The HEADSET ON key is located at the top left of the faceplate (Fig. 3). No provision is made for exclusion in these sets.

A 52- or 53-type headset must be ordered separately. Customer requirements should determine the type of headset.

2.06 Table C lists piece part information for these sets.

2.07 The 1662- and 1664-type telephone sets are equipped with TOUCH-TONE dials combined with card reader mechanisms. Early 1662A and 1664A type sets used a 26B (MD) dial which consisted of a 25D3 dial assembled to a card reader mechanism. Later sets used a 26D dial made-up of a 25M3 dial and the card reader (Fig. 4). A 26D dial can replace a 26B dial, but a 26B dial cannot replace a 26D dial.

2.08 The 1662B and 1664B type telephone sets use a 26F dial which is a combination of a 25R3 manual TOUCH-TONE dial (convertible from 10 to 12 buttons) and a card reader mechanism. A D-180115 Kit of Parts is required to convert the 25R3 dial from 10 to 12 buttons. The card reader uses the electrical circuitry of the 25-type dial for multifrequency signaling. To facilitate end-to-end signaling, the 26F dial permits manual dialing when the card is in any stop position. A 26F dial can replace a 26D dial, but a 26D dial cannot replace a 26F dial.

2.09 Card dialing is accomplished as follows:

(1) Insert precoded card into card slot with name at top and facing front of set. Push card down completely.

(2) Remove handset from line switch and listen for dial tone.

(3) Depress the START bar (Fig. 2). Dialer will start and number will be dialed automatically as the card rises in the slot. The card is fed past the reader mechanism and the coded portion of the card allows two sets of contacts to close for each digit. This function is equivalent to depressing a button on the TOUCH-TONE dial.

TABLE A

KEY FEATURE OPTIONS

TEL SET*	KEY	FEATURES
1662A1 1662B1 1664A1 1664B1	599B or 657A	5-line pickup, hold, all pickup keys convertible for signaling.
1662A2 1662B2 1664A2 1664B2	598A or 656A	6-line pickup, no hold, all pickup keys convertible for signaling.
1662A3 1662B3 1664A3 1664B3	699B or 657B	4-line pickup, hold, cutoff by turn-key, all pickup keys convertible for signaling.

* The sets are furnished as A1 or B1 code only; for other codes, replace the 599A or 657A key with the required key.

TABLE B

CONVERSION PARTS ORDERING GUIDE
(EXCLUSION)

1662A1 to 1662A4	1662B1 to 1662B4
1662A2 to 1662A5	1662B2 to 1662B5
1662A3 to 1662A6	1662B3 to 1662B6

SET COLOR	KIT NUMBER	COORDINATED FACEPLATE*	
		COLOR	PART NO.
Black (-03)	D-180162	Charcoal (-70)	P-83G170
Ivory (-50)	D-180337	Muted Ivory (-80)	P-83G180
Green (-51)	D-180163	Light Green (-71)	P-83G171
Red (-53)	D-180338	Muted Red (-69)	P-83G169
Yellow (-56)	D-180164	Light Yellow (-72)	P-83G172
White (-58)	D-180165	Light Gray (-73)	P-83G173
Rose Pink (-59)	D-180166	Muted Pink (-74)	P-83G174
Light Beige (-60)	D-180167	Muted Beige (-75)	P-83G175
Light Gray (-61)	D-180162	Charcoal (-70)	P-83G170
Aqua Blue (-62)	D-180168	Muted Blue (-76)	P-83G176
Turquoise (-64)	D-180169	Muted Turquoise (-77)	P-83G177

*Coordinated color faceplates are furnished with the conversion kit.

TABLE C

PIECE PART ORDERING GUIDE

SET CODE*		HOUSING*	EXCLUSION SWITCH ASSY	HEADSET KEY ASSY	AMPLIFIER	FACEPLATE*	SUPERSEDED FACEPLATE
1662	A1	P-82B0—				P-83G0	P-24E242
	A2						
	A3						P-26E623
	A4		P-24E456			P-83G1—	P-24E243
	A5						
	A6						P-26E624
	B1					P-83G0—	
	B2						
	B3						
	B4		P-24E456			P-83G1—	
	B5						
	B6						
1664	A1	P-87C2—		P-26E936	242—	P-83G2—	P-26E939
	A2						
	A3						P-27E709
	B1						
	B2						
	B3						

* Add color suffix

(4) On completion of call, replace handset. Remove card from slot and return it to index.

2.10 To abandon call during dialing, restore handset. The card dialer will continue to read entire card. After card travel has ceased, remove card from slot.

2.11 If card is coded with a stop following an access code, the dialer will stop after the access code is dialed. When the second dial tone is heard, depress the START bar again and the remaining digits will be dialed.

2.12 Two P-24E238 packages, each containing 20 code cards and one P-13E363 card index set consisting of 9 alphabetical spacer cards are furnished with each set for use with the 10 button dial. If the 25B3 dial is converted from 10 to 12 buttons, two P-21F752 packages of code cards must be ordered separately.

Optional Features

2.13 The 1662B and 1664B type sets have provisions for installing a P-90D012 guard assembly to provide for end-to-end signaling. The guard assembly mounts on the base of the set behind the network using mounting screws provided with the D-180250 Kit of Parts.
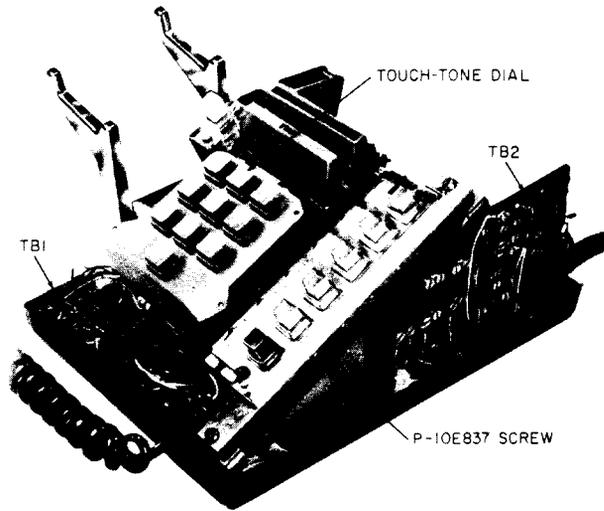
TOUCH-TONE DIAL

TB2

TB1

P-10E837 SCREW

Fig. 4—1662-Type Telephone Set, Housing Removed

2.14 A D-180250 Kit of Parts is available for use in the 1662A and 1664A type sets whenever a polarity guard is required. The D-180250 Kit of Parts consists of a P-90D095 guard assembly which is made up of a P-90D012 guard assembly, a P-22F193 guard mounting strip, and a P-43A392 screw. The guard assembly is mounted on the guard mounting strip which is attached to the cord retainer fastening.

2.15 The M1A ringer can be used as a common audible signal or an individual line ringer. The volume of the ringer is adjustable by use of the volume control which is accessible from the bottom of the set. Ringer cut off can be achieved by removal of the stop screw through an access hole in the base of the set.

2.16 A KS-8100 type buzzer can be mounted on the network, using the spacer and screw provided, for use as an auxiliary signal (Fig. 6).
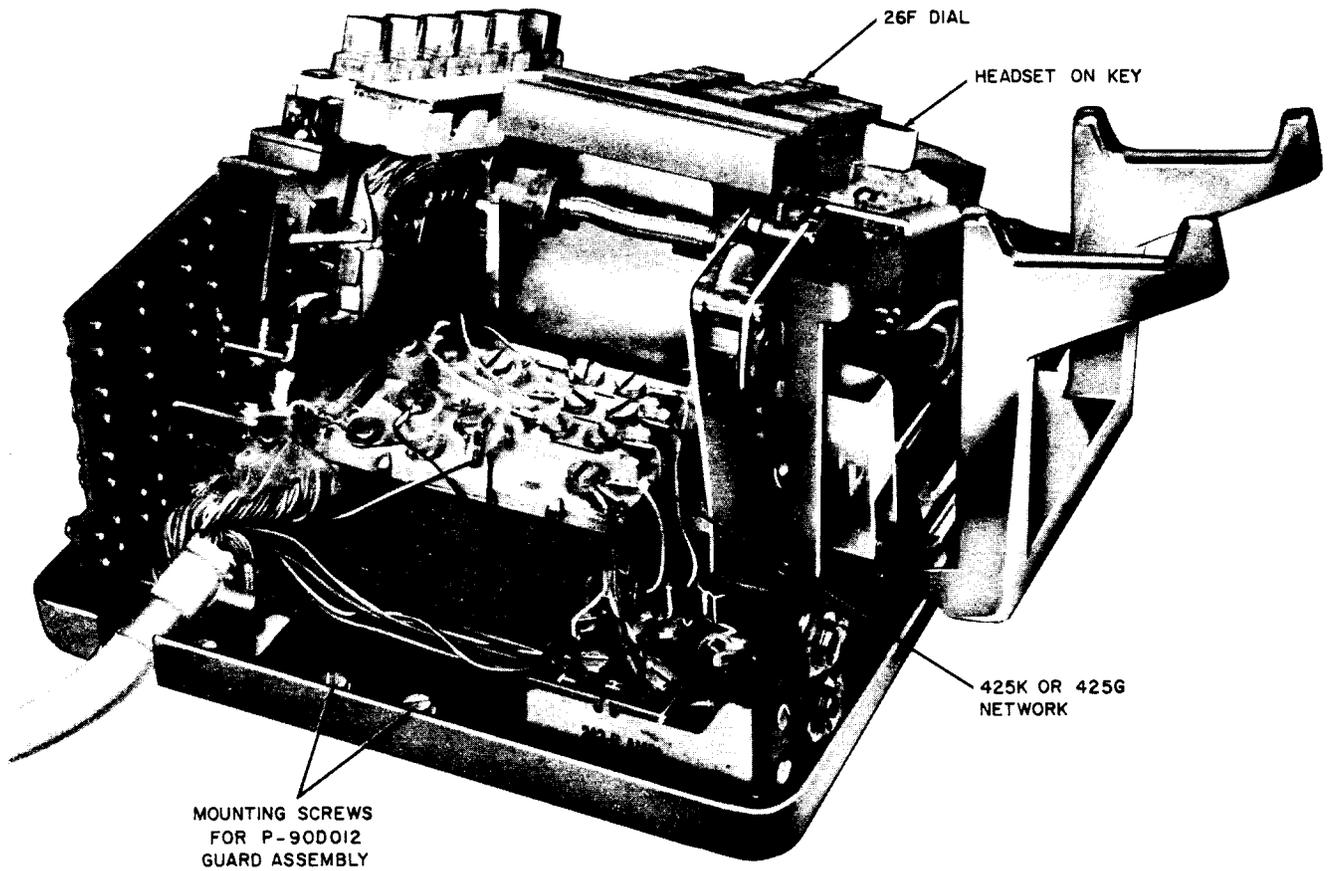
Fig. 5—1664B1 Telephone Set, Housing Removed

KS—8100 TYPE BUZZER

Fig. 6—Location of KS-8100 Type Buzzer in 1662-Type