

SINGLE-LINE, PUSHBUTTON DIAL, HANDSFREE TELEPHONES

GENERAL DESCRIPTION

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1. GENERAL DESCRIPTION

1.01 This document covers the single-line, pushbutton dial, handsfree telephone. (See Figure 1.) A general description plus information peculiar to single-line, pushbutton dial, handsfree telephones is included.

1.02 This section is reissued to reflect changes in the single-line, pushbutton dial, handsfree telephone and to incorporate the changes listed in the Telephone Apparatus Practices Change Notice, Section 11-510-100. Whenever this section is reissued, reason for reissue will be listed in this paragraph.

1.03 For additional information on replacement parts and for an exploded-view drawing for the telephones, refer to Section 50-844-104. The circuit labels appear in Section 50-844-105. Related documents of the ITT Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 2844 handsfree desk telephones are single-line, pushbutton dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 2844 handsfree desk telephones are identified by a code number stamped in ink on the bottom of the base plate. Refer to ordering information in Table A for an explanation of each code number.



AW 82-463

Figure 1: Single-Line, Pushbutton Dial, Handsfree Telephone

1.06 Handsfree telephones are equipped with a microphone and loudspeaker that combine with the telephone circuitry to permit their use without having to hold the handset. This feature may be switched ON or OFF. When OFF, the telephone is used in the normal manner. When ON, a user may converse on the telephone from any direction at a distance of several feet.

1.07 There are three pushbutton keys on the telephone. The clear key on the left is used as a privacy key. Pressing down and holding the privacy key disables the transmit mode, preventing the distant party from hearing local conversation. The remaining two keys are used for ON and OFF control of the handsfree equipment.

1.08 The Model 2844 telephones are available as nonmodular, quarter-modular, or full-modular versions. These versions are designated by a code letter that is placed in front of the ringer code letters in the order number of the telephone. (Refer to Table A.)

1.09 Nonmodular version telephones include a hard-wired handset cord and a hard-wired line cord. This version is designated by the code letter O.

TABLE A
ORDERING INFORMATION – TELEPHONES

CODE NUMBERS										
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:										
(1) Type Of Instrument (See Part 1)					2844		15		O	
(2) Color (See Part 2)									BA	
(3) Version (See Part 3)									39	
(4) Ringer (See Part 4)									M	
(5) Special Feature (See Part 5)										
(6) Dial (See Part 6)										
PART 1 TYPE OF INSTRUMENT										
CODE	DESCRIPTION	COLOR OFFERED	VERSION OFFERED	RINGER OFFERED	FEATURE OFFERED	DIAL OFFERED				
2844	Single-Line, Handsfree, Pushbutton Dial, Desk Telephone	00, 05, 13, 15, 44, And 45 (Available On All Models)	O	BA	39	M, R				
2844	Single-Line, Handsfree, Pushbutton Dial, Desk Telephone		Q	BA	29	M, R				
2844	Single-Line, Handsfree, Pushbutton Dial, Desk Telephone		M	BA	39, 29	M				
REFER TO INDIVIDUAL UNIT DESCRIPTION FOR COMPLETE DESCRIPTION OF FEATURE COMBINATIONS										
PART 2 COLORS		PART 3 VERSIONS		PART 4 RINGERS		PART 5 SPECIAL FEATURES		PART 6 DIALS		
CODE	COLORS	CODE	VERSIONS	CODE	RINGERS	CODE	SPECIAL FEATURES	CODE	DIALS	
00	Black	O	Nonmodular	BA	Straight-Line	39	Equipped For Handsfree Operation, 4-Conductor Line Cord	M	Metropolitan (Letters & Numerals)	
05	Moss Green									
13	Beige	Q	Quarter-Modular			29	Equipped For Handsfree Operation, 4-Conductor Silver-Satin Line Cord	R	Regular (Numerals Only)	
15	White									
44	Light Ash	M	Full-Modular (With Handset Cord)							
45	Cocoa Brown									

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1.10 Quarter-modular version telephones include a hard-wired handset cord and a plug-in line cord. The line cord is hard-wired on one end to the telephone base. The line cord is terminated on the other end with a modular plug that can be inserted into a modular wall jack. This version is designated by the code letter Q.

1.11 Full-modular version telephones are available with a modular handset cord. The full-modular telephones are equipped with jacks to accept the plugs of a modular handset cord. The full-modular version telephones with feature code 39 include a hard-wired line cord. The full-modular version telephones with feature code 29 include a line cord that is hard-wired on one end to the telephone base. The line cord is terminated on the other end with a modular plug that can be inserted into a

modular wall jack. The full-modular version of the telephone with a modular handset cord, terminated on each end with modular plugs, is designated by the code letter M.

1.12 The Model 2844 handsfree desk telephones are described in the following paragraphs. The circuit label drawings for these telephones are contained in Section 50-844-105.

MODEL 2844 () 39**

1.13 The Model 2844** () 39 is a standard single-line, pushbutton dial, handsfree telephone. The microphone and loudspeaker, which are mounted inside the telephone, combine with the telephone circuitry to provide for handsfree application. This telephone is equipped with a flat-shaped,

silver-colored, four-conductor line cord containing four 24 AWG leads colored RD, GN, BK, and YL. Also connected to this telephone is a round-shaped, gray-colored, four-conductor power cord to be connected to the transformer (packaged with the telephones). This power cord contains four 22 AWG leads colored RD, GN, BK, and WH.

MODEL 2844** () 29

1.14 The Model 2844** () 29 is the same as the Model 2844** () 39 except it is equipped with a four-conductor line cord terminated on one end with a modular plug.

2. INSTALLATION

2.01 Since the modular versions of these telephones are equipped with modular plugs, installation consists of inserting this plug into an available wall jack. Refer to the appropriate circuit labels for wiring of nonmodular units. Station installation connections are made using the flat, silver, four-conductor line cord with leads colored RD, GN, BK, and YL.

Warning: *Serious damage to the telephone will result if the power transformer is connected improperly.*

2.02 The power transformer provided with the telephone must be connected to the four-conductor power cord of the telephone and plugged into a standard 110 VAC service outlet. Since both the line cord and the power cord are four-conductor, care must be taken to choose the round gray cord with leads colored WH, BK, RD, and GN. The power cord must be connected to the transformer terminals designated WH, BK, RD, and GN. The WH lead of the power cord connects to terminal WH of the transformer, the BK lead connects to terminal BK, the RD lead connects to terminal RD, and the GN lead connects to terminal GN. Terminals are provided inside the telephone for connecting wiring if additional cord length is required.

Note: The transformer supplies power to the handsfree circuitry. Normal telephone operation using the handset is possible without the transformer.

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-844-104.

4. OPERATION

4.01 To place or answer a call in the handsfree mode, press the ON key. The ON key lamp is lit while the handsfree circuit is enabled. The ON key may be released only by pressing the OFF key.

4.02 When the telephone is in the handsfree mode, going off-hook inhibits the handsfree circuit and permits conversation using the handset. The ON key lamp will stay lit. Replacing the handset reactivates the handsfree circuit and returns the telephone to handsfree operation until the OFF key is pressed.

4.03 To prevent the distant party from hearing local conversation during handsfree operation, press and hold the privacy key. Releasing the privacy key will enable handsfree operation.

4.04 A lamp located in the OFF key acts as a visual transmit and receive indicator. The lamp is lit when the handsfree circuit is in the transmit mode and is dark when the circuit is in the receive mode. The lamp remains dark when the handsfree circuit is off.

4.05 The loudspeaker volume control is located underneath the right side of the telephone. Since the volume must be balanced to compensate for local noise level, this control also affects the performance of the telephone. Clipping or chopping of speech caused by excessive background noise may be controlled by increasing the volume. Volume is increased by rotating the volume control clockwise. If the voice being received is too loud, the volume should be decreased by rotating the volume control counterclockwise. If the called party is also using handsfree equipment, mutual adjustment of the volume controls may be necessary. Usually, a comfortable talk and listen level will ensure proper performance.

Note: Handsfree telephones may be subject to some types of radio frequency interference.

5. DESIGNATION TABS

5.01 Designation tabs are included with each telephone. These tabs are installed by removing the cap from the key, placing the tab in the cap, and reinstalling the cap. The caps are removed by squeezing the sides of the cap and lifting. Note that locking surfaces are located on the right and left sides of the caps and keys. These locking surfaces must align properly.