

TEL-TREX, SINGLE-LINE, PUSHBUTTON DIAL, DESK/WALL TELEPHONES WITH TONE/PULSE SWITCHABLE DIALING, MEMORY, AND LOCAL HOLD

GENERAL DESCRIPTION

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1. GENERAL DESCRIPTION

1.01 This document covers the Tel-Trex, single-line, pushbutton dial, desk/wall telephones. (See Figure 1.) A general description as well as information peculiar to the Tel-Trex, single-line, pushbutton dial, desk/wall telephones is included.

1.02 Whenever this section is reissued, reason for reissue will be listed in this paragraph.

1.03 A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-980-101. Circuit labels are not provided for the telephones. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Tel-Trex desk/wall telephones are single-line, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. The telephones are compatible with inductively-coupled hearing aid devices. The telephones can be used in Centrex/PABX applications.

1.05 The Tel-Trex telephones are identified by a coded label affixed to the bottom of the telephone. Refer to ordering information in Table A for an explanation of each code number and available features.



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Figure 1: Tel-Trex, Single-Line, Pushbutton Dial, Desk/Wall Telephone

1.06 The Tel-Trex telephones are full-modular version telephones. Full-modular version telephones are equipped with a modular handset cord and a modular line cord for desk mounting. The modular handset cord and the modular line cord are terminated on each end with modular plugs. This version is designated by the code letter M. (Refer to Table A.)

1.07 A Tel-Trex telephone can be wall mounted using the optional Wall Mounting Kit 600006-546-002. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on the wall mounting kit.

1.08 The Model 2980 Tel-Trex telephone is described in the following paragraphs.

MODEL 2980** () 27

1.09 The Model 2980 is a single-line, pushbutton dial, desk/wall telephone equipped with

TABLE A
ORDERING INFORMATION - TELEPHONES

CODE NUMBERS									
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:									
(1) Type of Instrument (See Part 1)	2980	75	M	OE	27	S			
(2) Color (See Part 2)									
(3) Version (See Part 3)									
(4) Ringer (See Part 4)									
(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			
2980	Tel-Trex, Single-Line, Pushbutton Dial, Desk/Wall Telephone With Tone/Pulse Switchable Dialing, Memory, And Local Hold	75	M	OE	27	S			
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	DIAL
75	Pearl Gray	M	Full-Modular (With Cords)	OE	Electronic Ringer	27	Standard With 90-Volt Message Waiting Lamp	S	Repertory (Metropolitan Only)

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Tone/Pulse switchable dialing, timed hookswitch flash, timed line disconnect, automatic dialing, local hold, and message waiting features.

1.10 The TONE button is used to change from Pulse (Tel-Pulse) to Tone (Tel-Touch) dialing.

1.11 The FLASH button is used in PABX/Centrex applications to provide a timed hookswitch flash. The timed hookswitch flash is activated when the station user presses the FLASH button. The line is momentarily disconnected for 600 milliseconds.

1.12 The RLSE button is used to provide a timed line disconnect. The timed line disconnect is activated when the station user presses and releases the RLSE button. The line is disconnected and dial tone is returned to the station. Line disconnect duration is determined by DIP switch settings.

1.13 The 20 memory location buttons (1-16 and A-D) are used to store programmed numbers

or functions. The Model 2980 telephones are equipped with a long-life lithium battery to protect memory location numbers or functions.

1.14 When storing a number for automatic dialing, the PAUSE button is used to store a 4-second pause, and the FLASH button is used to store a 600-millisecond line disconnect. The REDIAL button is used to automatically redial the last number dialed.

1.15 The HOLD button is used to put a call on local hold to be retrieved with other single-line telephones in parallel. The hold feature is activated after the station user presses the HOLD button and goes on-hook. The call is placed on local hold and the HOLD indicator will be on.

1.16 The message waiting feature uses a 90-volt lamp. The lamp is for use in PABX/Centrex applications to indicate a waiting message for the station user. It also flashes to indicate an incoming call.

1.17 DIP switches are used to select desired feature options. Feature options controlled by the DIP switches include: timed line disconnect duration for the RLSE button; timed release hookswitch operation; dialing type; and ringer tone. See DIP SWITCHES explanation included in this section.

2. INSTALLATION

2.01 Installation of these telephones consists of inserting the modular line cord plug into an available modular wall jack.

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-980-101.

4. OPERATION

A. Automatic Dialing

4.01 A number or function can be stored for automatic dialing and assigned to one of the 20 memory location buttons (1-16 and A-D). To store a number or function for automatic dialing:

- (a) Lift the handset and check for dial tone.
- (b) Press the STORE button.
- (c) Dial the desired number or function (17 digits maximum).
- (d) If desired, store the following functions:
 - (1) Press the FLASH button for a timed hookswitch flash.
 - (2) Press the PAUSE button for a pause.
 - (3) Press the TONE button to change from Pulse to Tone dialing.
- (e) Press a memory location button (1-16 or A-D).
- (f) Place the handset on-hook. To continue storing numbers, press the STORE button and return to step (c).

4.02 To access a stored number or function:

- (a) Lift the handset and check for dial tone.

- (b) Press the desired memory location button (1-16 or A-D).

4.03 To automatically redial the last number dialed:

- (a) Lift the handset and check for dial tone.
- (b) Press the REDIAL button.

B. Local Hold

4.04 To place a call on local hold:

- (a) Remain off-hook with an active call.
- (b) Press the HOLD button. The call remains active.
- (c) Place the handset on-hook. The HOLD button indicator is on. The call is on local hold.

4.05 To return to a call on local hold, lift the handset. The HOLD button indicator will be off.

C. DIP Switches

4.06 The six DIP switches located on the side of the telephone are used to select desired feature options. (See Table B for required settings.) Each switch can be moved up to the on position or down to the off position by using a ball point pen.

**TABLE B
DIP SWITCH SETTINGS**

FEATURE	DESIRED OPTION	REQUIRED SETTING	
Timed Line Disconnect (Release Button)	3 Seconds	Switch 1 Off	Switch 2 Off
	1 Second	On	Off
	900 Milliseconds	On	On
	2 Seconds	Off	On
Hookswitch Operation	Timed Release	Switch 3 On	
	Normal	Off	
Dialing Type	Tone	Switch 4 On	
	Pulse	Off	
Ringer Tone Frequency	High	Switch 5 On	Switch 6 Off
	Medium	Off	On
	Low	Off	Off

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