

# SINGLE-LINE, PUSHBUTTON DIAL, WALL TELEPHONES (MINIATURE SIZE)

## GENERAL DESCRIPTION

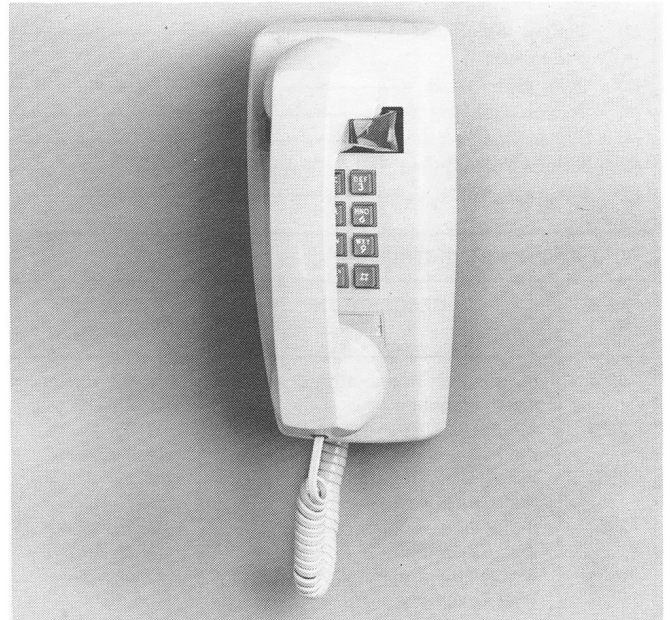
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### 1. GENERAL DESCRIPTION

**1.01** This document covers the single-line, pushbutton dial, miniature size, wall telephones. (See Figure 1.) A general description as well as information that is peculiar to single-line, pushbutton dial, miniature size, wall telephones is included.

**1.02** This section is reissued for the following reasons:

- (a) Issue 3 adds feature code 44, as well as feature codes 20 or 27 with the Tel-Flash (F) or Metropolitan (M) dial, to the full-modular (M) version of the single-line, pushbutton dial, miniature size, wall telephones. Quarter-modular (Q) and full-modular (F) versions of the single-line,



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**Figure 1: Single-Line, Pushbutton Dial, Wall Telephone**

pushbutton dial, miniature size, wall telephones have been manufacturing discontinued as well as the following:

- (1) Feature code 34 telephones.
  - (2) Color codes 05, 12, 43, and 46.
  - (3) Regular (R) dial telephones.
  - (4) Tel-Pulse (T) dial telephones.
- (b) Issue 2 corrected errors in the initial issue.

**Note:** Ordering information for manufacturing discontinued telephones has been removed; however, descriptive information has been retained as a reference for telephones still in service.

- 1.03** A replacement parts list and an exploded-view drawing for the telephones are contained in

**TABLE A**  
**ORDERING INFORMATION - TELEPHONES**

CODE NUMBERS									
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:									
<div><div>255415OBA30M</div><div><div>(1) Type of Instrument _____ (See Part 1)</div><div>(2) Color (See Part 2) _____</div><div>(3) Version (See Part 3) _____</div><div>(4) Ringer (See Part 4) _____</div><div>(5) Special Feature (See Part 5) _____</div><div>(6) Dial (See Part 6) _____</div></div></div>									
PART 1 TYPE OF INSTRUMENT									
CODE	DESCRIPTION	COLOR OFFERED	VERSION OFFERED	RINGER OFFERED	FEATURE OFFERED	DIAL OFFERED			
2554	Single-Line, Pushbutton Dial, Wall Telephone	00, 09, 13, 15, 44, And 45	O	BA	30, 31	M			
2554	Single-Line, Pushbutton Dial, Wall Telephone	00, 09, 13, 15, 44, And 45	M	BA	20, 24, 44	M			
2554	Single-Line, Pushbutton Dial, Wall Telephone	47	M	BA	20	M			
2554	Single-Line, Pushbutton Dial, Wall Telephone	00, 09, 13, 15, 41 44, 45 And 75	M	BA	20, 27, 44	M			
2554	Single-Line, Pushbutton Dial, Wall Telephone	41, 44, 45, And 75	M	BA	20, 27	F			
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
00	Black	O	Nonmodular	BA	Straight-Line	30	No Special Feature	M	Metropolitan (Letters & Numerals)
09	Ivory	M	Full-Modular (With Hand-set Cord)			31	30 Combined With 9-Foot Handset Cord	F	Tel-Flash
13	Beige					44	Wired For Use In A Key System (A-Lead Control)		
15	White					20	No Special Feature (Modular Units)		
41	Charcoal Gray					24	20 Combined With Push-button For Grounding		
44	Light Ash					27	20 Combined With 90-Volt Message Waiting Lamp		
45	Cocoa Brown								
47	Cherry Red								
75	Pearl Gray								

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Section 50-554-107. The circuit labels appear in Section 50-554-108. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

**1.04** The Model 2554 wall 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 2554 wall telephones are identified by a coded label affixed to the bottom of the base plate. Refer to ordering information in Table A for an explanation of each code number.

**1.06** The Model 2554 wall telephones are non-modular, quarter-modular, or full-modular versions. These versions are designated by a code letter in the telephone order number. (Refer to Table A.)

**1.07** Nonmodular wall telephones include a hard-wired handset cord. It is required that a line cord be hard-wired to the terminals provided in the telephone. This version is designated by the code letter O.

**1.08** Quarter-modular version telephones (no longer available) include a hard-wired handset cord,

and a modular plug is provided as part of the base assembly for inserting into a modular wall jack. This version is designated by the code letter Q.

**1.09** Full-modular version telephones are available with or without a modular handset cord. However, all full-modular version telephones are equipped with jacks to accept the plugs of a modular handset cord, and a modular plug is provided as part of the base assembly for inserting 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. The full-modular version without a modular handset cord (no longer available) is designated by the code letter F.

**1.10** For Model 2554 wall telephones, feature codes 20, 24, 27, and 44 pertain to modular units, while feature codes 30 and 31 pertain to nonmodular units.

**1.11** The Model 2554 wall telephones are described in the following paragraphs. The circuit labels for these telephones are contained in Section 50-554-108.

#### **MODEL 2554\*\* ( ) 20**

**1.12** The Model 2554\*\* ( ) 20 is a single-line, pushbutton dial, miniature size, wall telephone. It provides no additional outstanding features.

#### **MODEL 2554\*\* ( ) 20F (TEL-FLASH)**

**1.13** The Model 2554\*\* ( ) 20F is the same as the Model 2554\*\* ( ) 20 except for the added Tel-Flash feature. The Tel-Flash feature is used in PABX/Centrex applications to provide a timed line disconnect (interrupt) for custom calling features. The hookswitch provides a positive line disconnect.

**1.14** The timed flash is activated when the station user presses the FLASH button. The line is momentarily disconnected for 500 to 700 milliseconds. The hookswitch line disconnect is activated when the station user presses and releases the telephone hookswitch. The line is disconnected for 1.5 to 2.5 seconds.

**1.15** Wiring inside the Model 2554\*\* ( ) 20F telephones can be modified for the A-lead control feature. With A-lead control, the telephone will provide connections through the hookswitch that

allow ground on the A-1 lead to be applied to key equipment by way of the A lead. Refer to the appropriate circuit label in Section 50-554-108.

#### **MODEL 2554\*\* ( ) 21**

**1.16** The Model 2554\*\* ( ) 21 is the same as the Model 2554\*\* ( ) 20 with the addition of a nine-foot handset cord.

#### **MODEL 2554\*\* ( ) 24**

**1.17** The Model 2554\*\* ( ) 24 is the same as the Model 2554\*\* ( ) 20 with the addition of a grounding pushbutton switch required in some PBX applications for transferring calls, originating calls during a power failure, and other special functions.

#### **MODEL 2554\*\* ( ) 27**

**1.18** The Model 2554\*\* ( ) 27 is the same as the Model 2554\*\* ( ) 20 with the addition of a 90-volt message lamp located at the top left side of the housing. The lamp is used in PBX applications to indicate that the station user should contact the message center.

**1.19** The telephone is shipped with the message waiting lamp circuit connected across the Tip and Ring (RD/GN) pair. In this configuration the message waiting lamp is off when the handset is off-hook.

**1.20** Wiring inside the telephone can be changed to connect the message waiting lamp across the alternate BK/YL pair. In this configuration the message waiting lamp is controlled on and off by the connected equipment. Refer to the appropriate circuit label in Section 50-554-108.

#### **MODEL 2554\*\* ( ) 27F**

**1.21** The Model 2554\*\* ( ) 27F is the same as the Model 2554\*\* ( ) 20F with the addition of the message waiting lamp located below the pushbutton dial which provides the features available with the Model 2554\*\* ( ) 27.

#### **MODEL 2554\*\* ( ) 30**

**1.22** The Model 2554\*\* ( ) 30 is a single-line pushbutton dial, miniature size, wall telephone. This model provides no additional outstanding features.

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### MODEL 2554\*\* (     ) 31

**1.23** The Model 2554\*\* (     ) 31 is the same as the Model 2554\*\* (     ) 30 with the addition of a nine-foot handset cord.

### MODEL 2554\*\* (     ) 34

**1.24** The Model 2554 \*\* (     ) 34 is the same as the Model 2554\*\* (     ) 30 with the addition of a grounding pushbutton switch required in some PBX applications for transferring calls, originating calls during a power failure, and other special functions.

### MODEL 2554\*\* (     ) 44

**1.25** The Model 2554\*\* (     ) 44 is a single-line telephone, such as the Model 2554\*\* (     ) 30, wired for use in a key system. This telephone provides connections through the hookswitch that allow ground on the A1 lead to be applied to key equipment by way of the A lead. The Model 2554\*\* (     ) 30 may be converted to a Model 2554\*\* (     ) 44 as follows:

- (a) Remove the line cord of the telephone by disconnecting the leads from network terminals L1, L2, and A.
- (b) Move the BK ringer lead and the BN lead of the dial static shield from network terminal L2 to network terminal G.
- (c) Move the SL-WH hookswitch lead from network terminal G to network terminal L1.

(d) Connect a four-conductor line cord in the following manner:

- (1) Connect the RD (Ring) lead to network terminal A.
- (2) Connect the GN (Tip) lead to network terminal G.
- (3) Connect the BK (A) lead to network terminal L2.
- (4) Connect the YL (A1) lead to network terminal L1.

*Note:* Modification of full-modular versions of this telephone such as the Model 2554\*\* (     ) 20 requires that the GN lead of the modular plug be moved from network terminal L2 to network terminal G, and that the taped and stored BK lead of the modular plug be connected to network terminal L2.

## 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 label for installation wiring of nonmodular units.

## 3. MAINTENANCE

**3.01** For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-554-107.