

SINGLE-LINE, ROTARY DIAL, DESK TELEPHONES

GENERAL DESCRIPTION

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1. GENERAL DESCRIPTION

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

1.02 This section is reissued for the following reasons:

(a) Issue 3 adds feature codes 27 and 44 to the full-modular (M) version of the single-line, rotary dial, desk telephones. Quarter-modular (Q) and full-modular (F) versions of the single-line, rotary dial, desk telephones have been manufacturing discontinued as well as the following:

- (1) Feature codes 21, 28, 34, and 39 telephones.
- (2) Color codes 05, 12, 43, and 46.
- (3) Regular (R) dial telephones.
- (4) No (N) dial telephones.



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Figure 1: Single-Line, Rotary Dial, Desk Telephone

(b) Issue 2 removed the less ringer (LR) telephones and added various feature codes to the full-modular (M) telephones.

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 Section 50-500-101. The circuit labels appear in Section 50-500-102. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 500 desk telephones are single-line, rotary dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 500 desk 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 and a list of available versions and features.

TABLE A
ORDERING INFORMATION - TELEPHONES

CODE NUMBERS															
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:															
				500		44		O		BA		20		M	
(1)	Type of Instrument	_____		_____		_____		_____		_____		_____		_____	
		(See Part 1)													
(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									
500	Single-Line, Rotary Dial, Desk Telephone	00, 09, 13, 15, 44, And 45	O	BA	20, 27	M									
500	Single-Line, Rotary Dial, Desk Telephone	(Available On All Models)	M	BA	20, 24, 27, 44	M									
500	Single-Line, Rotary Dial, Desk Telephone	47 Only	M	BA	20	M									
502	Single-Line, Rotary Dial, Desk Telephone W/Exclusion		O	BA	30	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	DIAL						
00	Black	O	Nonmodular	BA	Straight-Line	20	No Special Feature	M	Metropolitan (Letters & Numerals)						
09	Ivory	M	Full-Modular (With Cords)			24	20 With Grounding Pushbutton								
13	Beige					27	20 With 90-Volt Message Waiting Lamp								
15	White					44	A-Lead Control For Key System Use								
44	Light Ash					30	No Special Feature (Nonmodular)								
45	Cocoa Brown														
47	Cherry Red														

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1.06 The Model 500 desk telephones are non-modular, quarter-modular, or full-modular versions. These versions are designated by a code letter in the telephone code number. Available versions are listed in Table A.

1.07 Nonmodular version telephones include a hard-wired handset cord and a hard-wired line cord. 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 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.

1.09 Full-modular version telephones are available with or without a modular handset cord and a modular line cord. However, all full-modular version telephones are equipped with jacks to accept the plugs of a modular handset cord and a modular line cord. The full-modular version of the telephone with both a modular handset cord and a modular line cord, terminated on each end with modular plugs, is designated by the code letter M. The full-modular

version without a modular handset cord and a modular line cord (no longer available) is designated by the code letter F.

1.10 The Model 500 desk telephones are described in the following paragraphs. The circuit labels for these telephones are contained in Section 50-500-102.

MODEL 500 () 20**

1.11 The Model 500** () 20 is a single-line, rotary dial, desk telephone. It provides no special features.

MODEL 500 () 21**

1.12 The Model 500** () 21 is the same as the Model 500** () 20 except it is equipped with a 9-foot handset cord.

MODEL 500 () 24**

1.13 The Model 500** () 24 is the same as the Model 500** () 20 with the addition of a grounding pushbutton required in some PABX (Private Automatic Branch Exchange) applications for transferring calls, originating calls during a power failure, and other special functions.

MODEL 500 () 27/28**

1.14 The Model 500** () 27/28 is the same as the Model 500** () 20 with the addition of a message waiting lamp. The lamp is for use in PABX applications to indicate a waiting message for the station user. It also flashes for an incoming call. The Model 500** () 27 is equipped with a 90-volt lamp; the Model 500** () 28 is equipped with a 125-volt lamp.

MODEL 500 () 39**

1.15 The Model 500** () 39 is a specially-modified Model 500** () 20 arranged for handsfree application. It is equipped with a special

dial assembly (type 3500-00G) which provides a contact closure to mute the loudspeaker during dialing.

MODEL 500 () 44**

1.16 The Model 500 ** () 44 is a Model 500** () 20 arranged for A-lead control. This telephone provides connections through the hookswitch that allow ground on the A1 lead to be applied to key equipment through the A lead. The Model 500** () 20 may be converted to a Model 500** () 44. Refer to the appropriate circuit label in Section 50-500-102.

MODEL 502 () 30**

1.17 The Model 502** () 30 is a single-line, rotary dial, desk telephone equipped with a manual exclusion switch. The exclusion switch disconnects other telephones on the same line to permit confidential conversations. This is a nonmodular version of the telephone with no special features.

MODEL 502 () 34**

1.18 The Model 502** () 34 is the same as the Model 502** () 30 with the addition of a grounding pushbutton required in some PABX applications for transferring calls, originating calls during a power failure, and other special functions.

2. INSTALLATION

2.01 Installation of the full-modular versions of these telephones consists of inserting the modular line cord plug into an available modular wall jack. Refer to the appropriate circuit label for installation wiring of nonmodular version telephones.

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-500-101.