

TRENDLINE TELEPHONES

TRENDLINE, ROTARY DIAL, DESK TELEPHONES

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TRENDLINE, ROTARY DIAL, DESK TELEPHONES

GENERAL DESCRIPTION

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1. GENERAL DESCRIPTION

1.01 This document covers the Trendline, rotary dial, desk telephones. (See Figure 1.) A general description plus information peculiar to Trendline, rotary dial, desk telephones is included.

1.02 This section is reissued to remove manufacturing discontinued versions of the telephone and to add features for the full-modular (M) version 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 50-200-101. The circuit labels appear in Section 50-200-102. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 200 desk telephones are Trendline, rotary dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 200 desk telephones are identified by a coded label affixed to the bottom of the base. Refer to ordering information in Table A for an explanation of each code number.

1.06 Trendline telephones are nonmodular or full-modular versions. These versions are designated by a code letter in the telephone code number. (Refer to Table A.)

1.07 Nonmodular version telephones (no longer available) include a modular handset cord and a line cord. The line cord is terminated on one end



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Figure 1: Trendline, Rotary Dial, Desk Telephone

with a modular plug that is inserted into the modular jack in the telephone base. The line cord is terminated on the other end with spade-tip connectors that are hard-wired to a nonmodular wall jack. This version is designated by the code letter O.

1.08 Full-modular version telephones are available with or without a modular handset cord and a modular line cord. However, all full-modular telephones are equipped with jacks to accept the plugs of a modular handset cord and a modular line cord. The modular version of the telephone without a modular handset cord and a modular line cord (no longer available) is designated by the code letter F. The full-modular version of the telephone with a modular handset cord and a modular line cord, terminated on each end with modular plugs, is designated by the code letter M.

1.09 The Model 200 desk telephones are described in the following paragraphs. The circuit labels for these telephones are contained in Section 50-200-102.

MODEL 200** () 20

1.10 The Model 200** () 20 is a single-line, Trendline, rotary dial, desk telephone. It

TABLE A
ORDERING INFORMATION - TELEPHONES

CODE NUMBERS									
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:									
(1) Type of Instrument (See Part 1)	200	44	M	BA	20	M			
(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			
200	Trendline, Rotary Dial, Desk Telephone	00, 09, 13, 15, 44, 45, And 47 (Available On All Models)	M	BA	20	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	M	Full-Modular (With Cords)	BA	Straight-Line	20	No Special Feature	M	Metropolitan (Letters & Numerals)
09	Ivory								
13	Beige								
15	White								
44	Light Ash								
45	Cocoa Brown								
47	Cherry Red								

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provides no special features and utilizes a 4-conductor line cord. The base assembly for this telephone includes the ringer and hookswitch assemblies and is connected to the handset assembly by a plug-in handset cord. The handset assembly includes the transmitter, receiver, network, and dial assemblies. An operator recall button, located below the dial, may be momentarily pressed to obtain dial tone. This allows a series of calls to be made without operating the hookswitch in the telephone base.

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.

2.02 A lamp may be added to Trendline telephones for illuminating the dial and number card. The lamp must be ordered separately. Installation consists of inserting the lamp into the lamp housing

located in the handset under the number card retainer. A power transformer must be ordered and installed at the station connecting block as shown in Figure 2. Refer to Section 50-200-101 for lamp and power transformer ordering information.

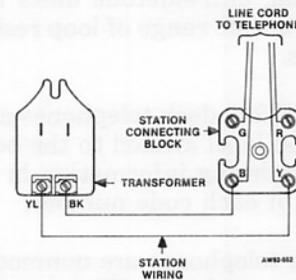


Figure 2: Installation Of Power Transformer

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-200-101.

TRENDLINE, ROTARY DIAL, DESK TELEPHONES

REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the Trendline, rotary dial, desk telephone. (See Figure 1.) An exploded-view drawing of the telephone with major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

1.02 This section is reissued to remove manufacturing discontinued versions of the telephone and to add features for the full-modular (M) version telephones. 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 For additional information on description and installation of the telephones, refer to Section 50-200-100. The circuit labels appear in Section 50-200-102. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 200 desk telephones are Trendline, rotary dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 200 desk telephones are identified by a coded label affixed to the bottom of the base. Refer to Section 50-200-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information and for an explanation of each code number.



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Figure 1 Trendline, Rotary Dial, Desk Telephone

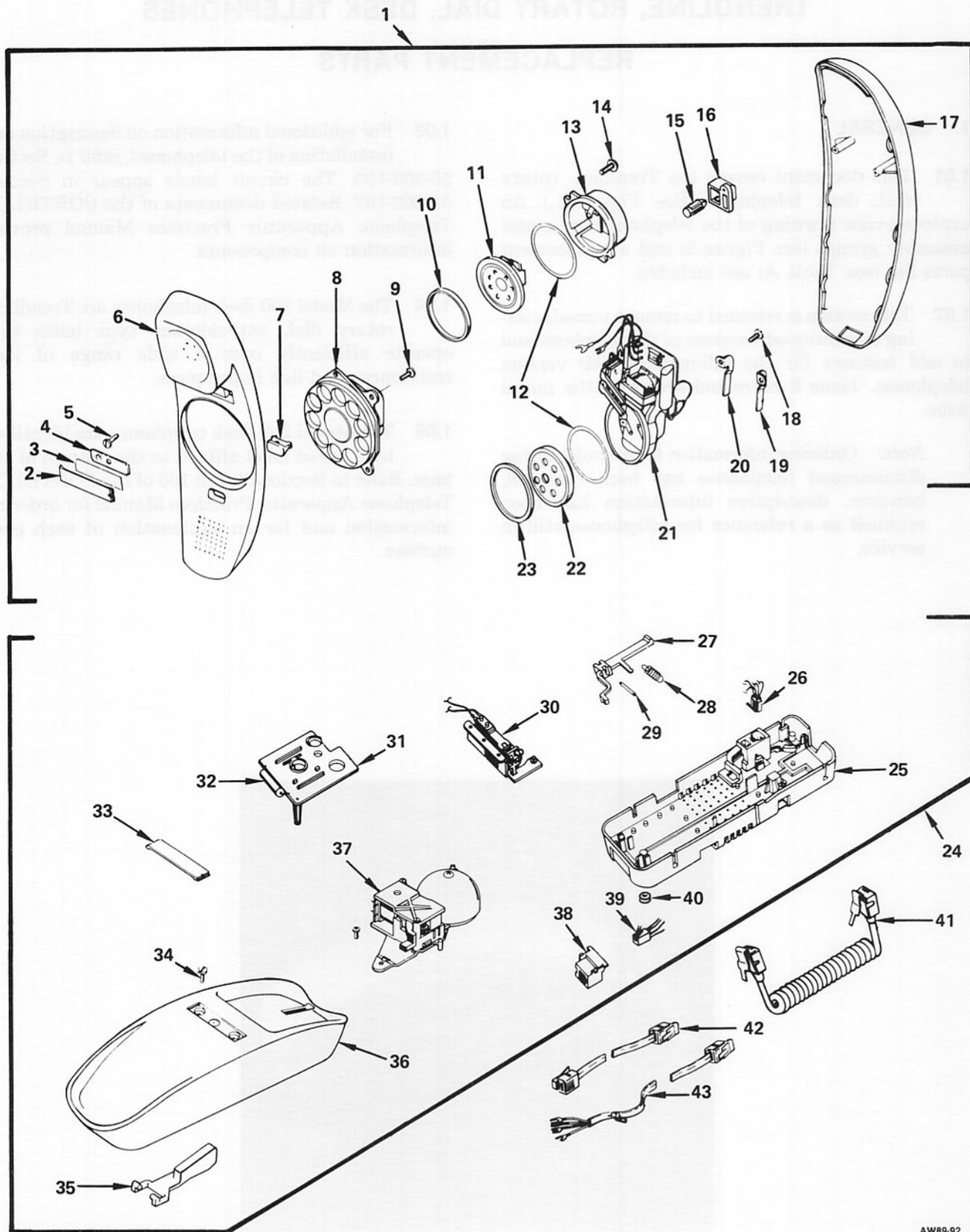


Figure 2: Trendline, Rotary Dial, Desk Telephone, Exploded View

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TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED
		Trendline, Rotary Dial, Desk Telephone	200/20
1	0220**-20M	Handset Assembly	1
2	087514-101	Retainer, Number Card	1
3	087513-101	Card, Number	1
	087513-102	Card, Number, Strip Of 6 (Not Shown)	1
4	088593-101	Shield, Light	1
5	600017-204-004	Screw, PH	2
6	088707-0**	Housing, Handset	1
7	088701-0**	Button, Recall	1
8	001000-00G	Dial Assembly, Metropolitan (Letters And Numerals) ¹	1
	180308-101	Card, Number (For Dial Finger Wheel, Not Shown)	1
	180314-101	Insert, Finger Wheel (Plastic Card Cover, Not Shown)	1
9	096407-102	Screw, Dial Mounting	3
10	088704-101	Gasket, Receiver	1
11	187120-102	Receiver	1
12	088706-101	Gasket	2
13	183927-101	Cup Assembly, Receiver	1
14	180245-102	Screw, Cup Assembly Mounting	2
15	096405-101	Lamp ⁵	1
16	183092-101	Housing, Lamp	1
17	088718-0**	Cover, Handset	1
18	096407-102	Screw	2
19	088719-102	Bracket, Retainer L. H.	1
20	088719-101	Bracket, Retainer R. H.	1
21	184130-101	Modular Network Assembly	1
22	075555-101	Transmitter	1
23	088705-101	Gasket, Transmitter	1
24	0AG1**-OBA	Base And Housing Assembly (Nonmodular) ³	1
24	0AG1**-OLR	Base And Housing Assembly (Nonmodular, Less Ringer) ³	1
24	0AG1**-FBA	Base And Housing Assembly (Full-Modular) ³	1
24	0AG1**-FLR	Base And Housing Assembly (Full-Modular, Less Ringer) ³	1
24	0AG1**-MBA	Base And Housing Assembly (Full-Modular With Cord)	1
24	0AG1**-MLR	Base And Housing Assembly (Full-Modular With Cord, Less Ringer) ³	1
25	184566-101	Base Assembly	1
		Plastic Base (Not Shown) ²	1
	184655-101	Threaded Insert (Not Shown)	1
26	184406-101	Insulator Assembly	1
27	184514-101	Arm, Lever	1
28	187962-101	Spring, Lever Arm	1
29	184519-101	Pin, Pivot	1
30	184550-102	Cradle Switch Assembly ¹	1
31	184518-101	Terminal Board Assembly	1
32	095995-103	Capacitor	1
33	088554-0**	Nameplate	1
34	095992-102	Screw, Base Housing	2
35	088773-101	Plunger	1
36	184249-0**	Housing Base	1
37	000153-ABA	Ringer ^{1, 4}	1
37	000153-PBA	Ringer ^{1, 4}	1
38	182988-101	Modular Jack Assembly	1

TABLE A
REPLACEMENT PARTS LIST (Cont)

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED
		Trendline, Rotary Dial, Desk Telephone	200/20
39	182990-101	4-Pin Insulator Assembly	1
40	184549-101	Foot	4
	079485-102	Screw (Not Shown)	1
	096407-102	Screw (Not Shown)	1
	180221-106	Screw (Not Shown)	1
41	9018**-072	Cord, Coiled	1
42	182827-084	Cord, Line (Modular)	1
43	185684-084	Cord, Line (Nonmodular) ³	1
	000031-101	Transformer, Power (Not Shown) ⁵	1

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Notes:

** Substitute 2-Digit Color Code When Ordering.

¹ Refer To Component Parts Section Of This Manual For Assembly Parts List.

² This Is An NSS Item (Not Serviced Separately).

³ These Products Have Been Discontinued, But Are Included To Provide A Source Of Information For Telephones Still In Service.

⁴ The 000153-PBA Ringer Replaces The 000153-ABA Ringer.

⁵ This part must be ordered separately.

TRENDLINE, ROTARY DIAL, DESK TELEPHONES

CIRCUIT LABELS

1. GENERAL

1.01 This document covers the Trendline, rotary dial, desk telephones. (See Figure 1.) Circuit labels for Trendline, rotary dial, desk telephones are included. (See Table A.)



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Figure 1: Trendline, Rotary Dial, Desk Telephone

1.02 This section is reissued to conform to the CORTELCO Practices format. Issue 2 added

the latest issue circuit label for the Trendline, rotary dial, desk telephones.

1.03 For additional information on description and installation of the telephones, refer to Section 50-200-100. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-200-101. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 200 desk telephones are Trendline, rotary dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 200 desk telephones are identified by a coded label affixed to the bottom of the base. Refer to Section 50-200-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information and an explanation of each code number.

TABLE A
LIST OF CIRCUIT LABELS

MODEL NO	TYPE NO	FIGURE NO
200**OBA	20M	2
200**FBA	20M	2
200**MBA	20M	2

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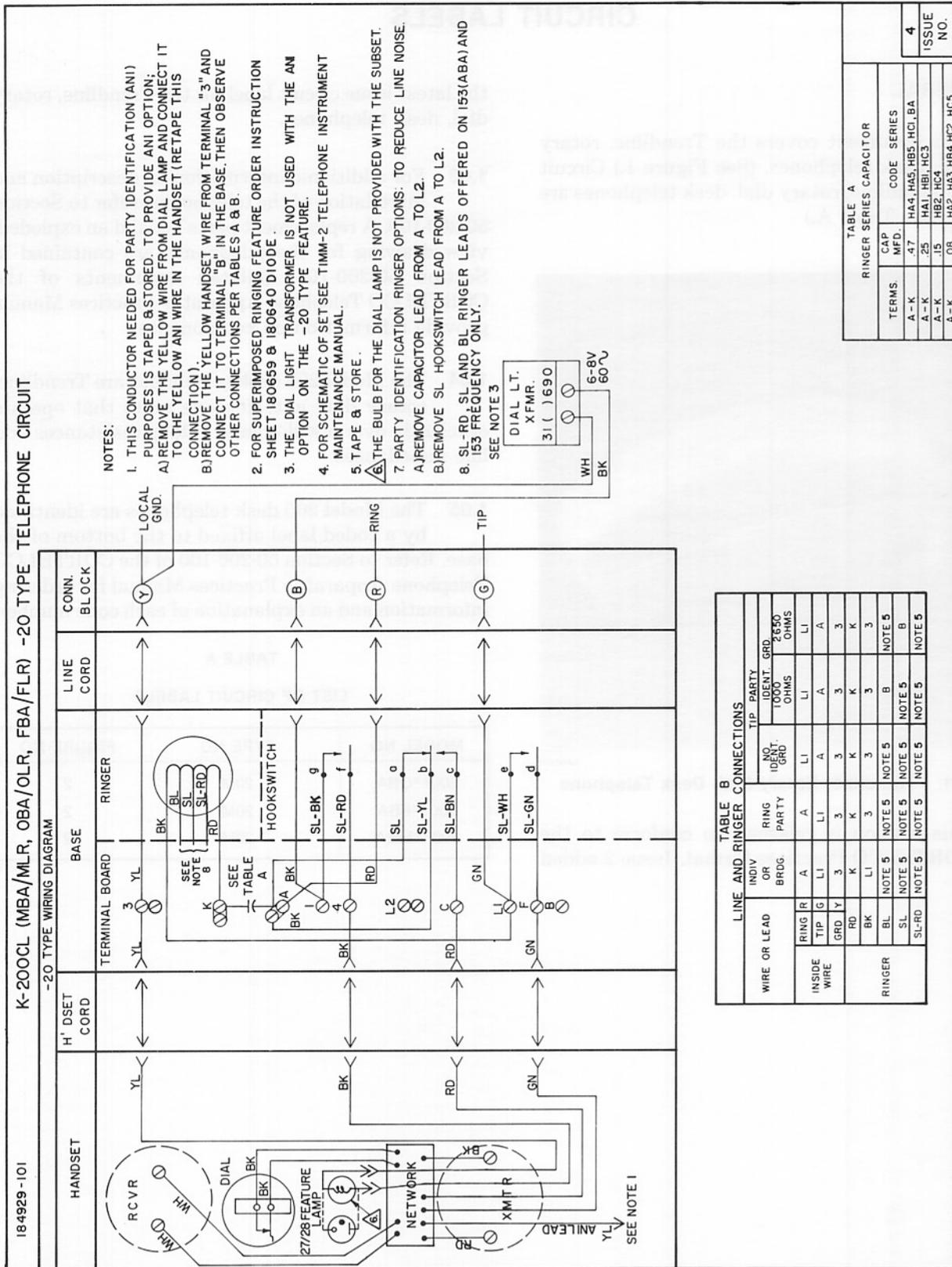


Figure 2: Circuit Label, Model 200**OBA Type 20M ; Model 200**FBA Type 20M; Model 200**MBA Type 20M

TRENDLINE, PUSHBUTTON DIAL, DESK TELEPHONES

GENERAL DESCRIPTION

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1. GENERAL DESCRIPTION

1.01 This document covers the Trendline, pushbutton dial, desk telephones. (See Figure 1.) A general description plus information peculiar to Trendline, pushbutton dial, desk telephones is included.

1.02 This section is reissued to delete the ordering information for the Trendline, pushbutton dial, desk telephones. The descriptive information has been retained as a reference for telephones still in service, although this telephone has been manufacturing discontinued.

1.03 A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-200-104. The circuit labels appear in Section 50-200-105. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components:

1.04 The Model 2200 desk telephones are Trendline, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 2200 desk telephones are identified by a code number stamped in ink on the bottom of the base.

1.06 Trendline telephones are nonmodular or full-modular versions. These versions are designated by a code letter in the telephone code number.



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Figure 1: Trendline, Pushbutton Dial, Desk Telephone

1.07 Nonmodular version telephones include a modular handset cord and a line cord. The line cord is terminated on one end with a modular plug that is inserted into the modular jack in the telephone base. The line cord is terminated on the other end with spade-tip connectors that are hard-wired to a nonmodular wall jack. This version is designated by the code letter O.

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

1.09 The Model 2200 desk telephones are described in the following paragraphs. The circuit labels for these telephones are contained in Section 50-200-105.

MODEL 2200** () 20

1.10 The Model 2200** () 20 is a single-line, Trendline, pushbutton dial, desk telephone. It provides no special features and utilizes a 4-conductor line cord. The base assembly for this telephone includes the ringer and hookswitch assemblies and is connected to the handset assembly by a plug-in handset cord. The handset assembly includes the transmitter, receiver, network, and dial assemblies. An operator recall button, located below the dial, may be momentarily pressed to obtain dial tone. This allows a series of calls to be made without operating the hookswitch in the telephone base.

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.

2.02 A lamp may be added to Trendline telephones for illuminating the dial and number card. The lamp must be ordered separately. Installation consists of inserting the lamp into the lamp housing located in the handset under the number card retainer. A power transformer must be ordered and

installed at the station connecting block as shown in Figure 2. Refer to Section 50-200-104 for lamp and power transformer ordering information.

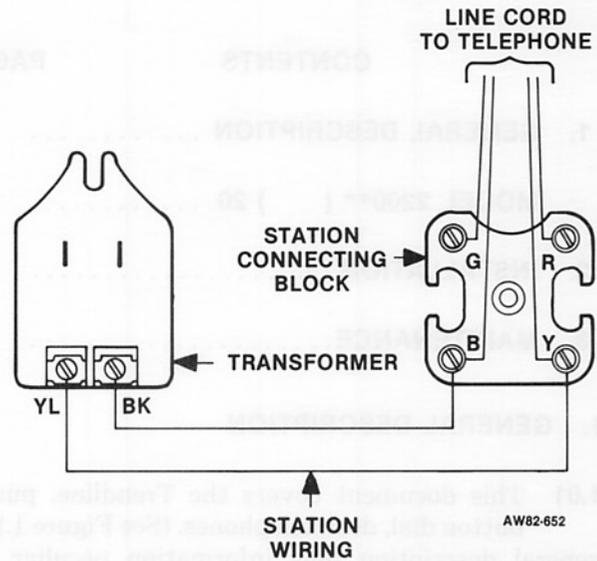


Figure 2: Installation Of Power Transformer

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-200-104.

TRENDLINE, PUSHBUTTON DIAL, DESK TELEPHONES

REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the Trendline, pushbutton dial, desk telephones. (See Figure 1.) An exploded-view drawing of the telephone with major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

Note: The Trendline, pushbutton dial, desk telephone has been discontinued, but is included in the Telephone Apparatus Practices Manual to provide a source of information for Trendline telephones still in service.

1.02 This section is reissued to conform to the CORTELCO Practices format. Issue 2 described changes in the Trendline, pushbutton dial, desk telephone and incorporated the changes listed in the

Telephone Apparatus Practices Change Notice, Section 11-510-100.

1.03 For additional information on description and installation of the telephones, refer to Section 50-200-103. The circuit labels appear in Section 50-200-105. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

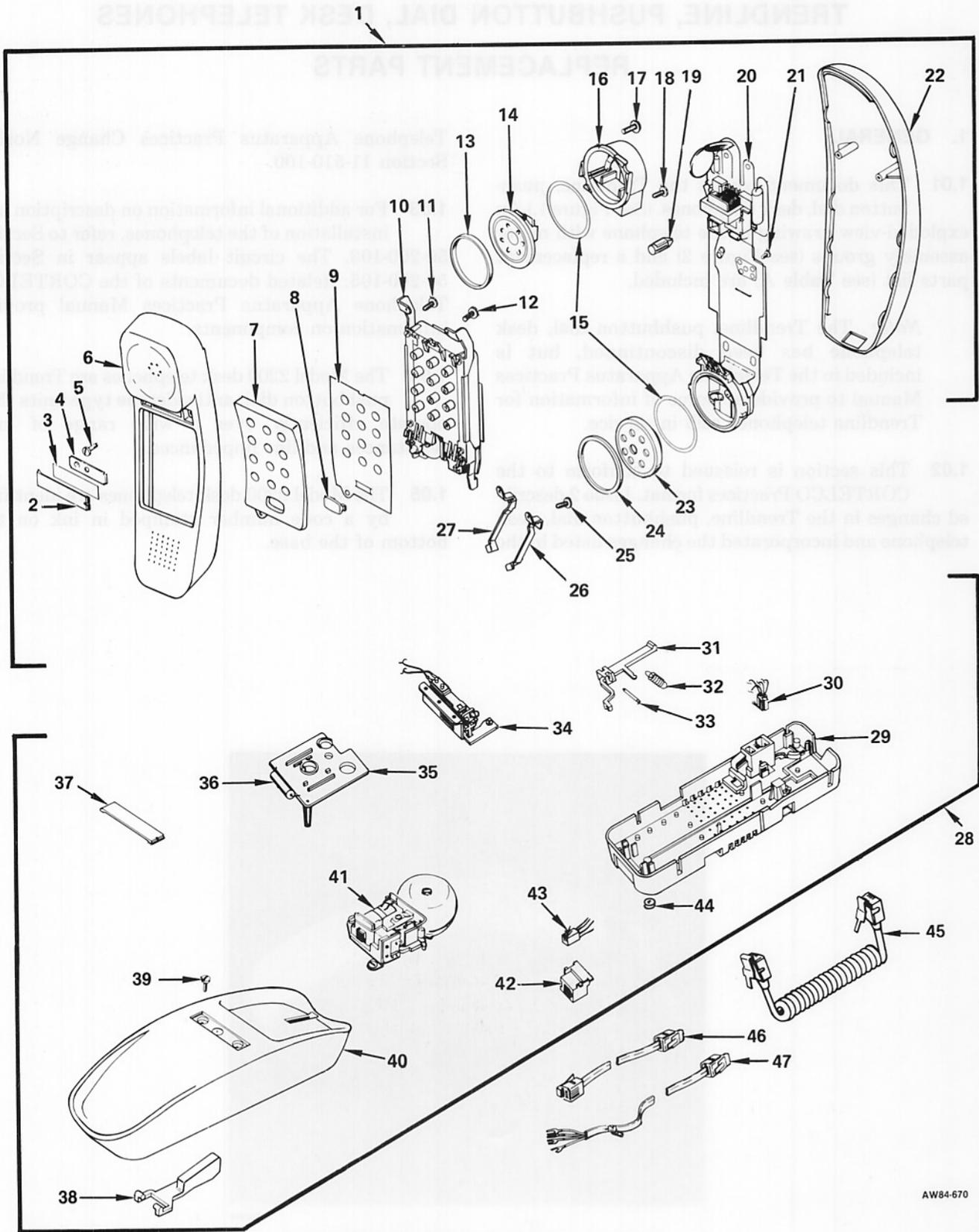
1.04 The Model 2200 desk telephones are Trendline, pushbutton dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 2200 desk telephones are identified by a code number stamped in ink on the bottom of the base.



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Figure 1: Trendline, Pushbutton Dial, Desk Telephone



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Figure 2: Trendline, Pushbutton Dial, Desk Telephone, Exploded View

TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED
		Trendline, Pushbutton Dial, Desk Telephone	2200/20
1	2220**-20M	Handset Assembly	1
1	2220**-20P	Handset Assembly (With Polarity Guard)	1
2	087514-101	Retainer, Number Card	1
3	087513-101	Card, Number	1
3	087513-102	Card, Number, Strip Of 6	1
4	088593-101	Shield, Light	1
5	180329-101	Screw, Handset Housing	2
6	180261-0**	Housing, Handset	1
7	180445-102	Guide, Light	1
8	180426-101	Button, Recall	1
9	180452-101	Card, Dial	1
10	003700-000	Dial Assembly ¹	1
11	096006-102	Screw, Dial Mounting (Upper)	2
12	180330-101	Screw, Dial Mounting (Lower)	2
13	180365-101	Gasket, Receiver	1
14	183464-101	Receiver	1
15	088706-101	Gasket	2
16	183926-101	Cup Assembly, Receiver	1
17	180245-102	Screw, Cup Assembly Mounting	2
18	182201-101	Screw, Flexprint Mounting	4
19	096405-101	Lamp (Ordered Separately)	1
20	180455-105	Network Assembly (Flexprint)	1
20	180455-107	Network Assembly (Flexprint With Polarity Guard)	1
21	180346-101	Screw, Flexprint Mounting	7
22	180262-0**	Cover, Handset	1
23	075555-101	Transmitter	1
24	088705-101	Gasket, Transmitter	1
25	096407-102	Screw	2
26	180424-101	Bracket, Retainer L. H.	1
27	180423-101	Bracket, Retainer R. H.	1
28	0AG1**-OBA	Base And Housing Assembly (Nonmodular)	1
28	0AG1**-OLR	Base And Housing Assembly (Nonmodular, Less Ringer)	1
28	0AG1**-FBA	Base And Housing Assembly (Full-Modular)	1
28	0AG1**-FLR	Base And Housing Assembly (Full-Modular, Less Ringer)	1
28	0AG1**-MBA	Base And Housing Assembly (Full-Modular With Cord)	1
28	0AG1**-MLR	Base And Housing Assembly (Full-Modular With Cord, Less Ringer)	1
29	184566-101	Base Assembly	1
		Plastic Base ²	1
	184655-101	Threaded Insert (Not Shown)	1
30	184406-101	Insulator Assembly	1
31	184514-101	Arm, Lever	1
32	187962-101	Spring, Lever Arm	1
33	184519-101	Pin, Pivot	1
34	184550-102	Cradle Switch Assembly ¹	1
35	184518-101	Terminal Board Assembly	1

TABLE A
REPLACEMENT PARTS LIST (Cont)

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED
		Trendline, Pushbutton Dial, Desk Telephone	2200/20
36	095995-103	Capacitor	1
37	088554-0**	Nameplate	1
38	088773-101	Plunger	1
39	095992-102	Screw, Base Housing	2
40	184249-0**	Housing, Base	1
41	000153-ABA	Ringer ¹	1
42	182988-101	Modular Jack Assembly	1
43	182990-101	4-Pin Insulator Assembly	1
44	184549-101	Foot	4
45	9018**-072	Cord, Coiled	1
46	182827-084	Cord, Line (Modular)	1
47	185684-084	Cord, Line (Nonmodular)	1
	000031-101	Transformer, Power (Not Shown) (Ordered Separately)	1

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Notes:

- ** Substitute 2-Digit Color Code When Ordering.
- ¹ Refer To Component Parts Section Of This Manual For Assembly Parts List.
- ² This Is An NSS Item (Not Serviced Separately).

TRENDLINE, PUSHBUTTON DIAL, DESK TELEPHONES

CIRCUIT LABELS

1. GENERAL

1.01 This document covers the Trendline, pushbutton dial, desk telephones. (See Figure 1.) Circuit labels for Trendline, pushbutton dial, desk telephones are included. (See Table A.)



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Figure 1: Trendline, Pushbutton Dial, Desk Telephone

1.02 This section is reissued to conform to CORTELCO Practices format. Issue 2 provided the latest issue circuit label for the Trendline, pushbutton dial, desk telephones.

Note: The Trendline, pushbutton dial, desk telephone has been discontinued, but is included in the Telephone Apparatus Practices Manual to provide a source of information for Trendline telephones still in service.

1.03 For additional information on description and installation of the telephones, refer to Section 50-200-103. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-200-104. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 2200 desk telephones are Trendline, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 2200 desk telephones are identified by a code number stamped in ink on the bottom of the base.

TABLE A
LIST OF CIRCUIT LABELS

MODEL NO	TYPE NO	FIGURE NO
2200**OBA	20M, 20P	2
2200**FBA	20M, 20P	2
2200**MBA	20M, 20P	2

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TRENDLINE DIAL LIGHT PUSHBUTTON DIAL, DESK TELEPHONES

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1. GENERAL DESCRIPTION

1.01 This document covers the Trendline dial light, pushbutton dial, desk telephones. (See Figure 1.) A general description plus information peculiar to Trendline dial light, pushbutton dial, desk telephones is included.

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

1.03 Selected versions of the Model 3200 Trendline telephone have been manufacturing discontinued and are no longer available. Ordering information is not furnished for manufacturing discontinued versions. The descriptive information has, however, been retained as a reference for telephones still in service.

1.04 A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-200-107. The circuit label appears in Section 50-200-108. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.05 The Model 3200 desk telephones are Trendline, pushbutton dial telephones equipped with a dial light. The dial light is on when the station user goes off-hook. These telephones are anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the telephone handset, and conventional components are used in the telephone base.

1.06 The Model 3200 desk telephones are identified by a coded label affixed to the bottom of the



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Figure 1: Trendline Dial Light, Pushbutton Dial, Desk Telephone

telephone base. Refer to ordering information in Table A for an explanation of each code number.

1.07 The Model 3200 desk telephones are available as full-modular versions. This version is designated by a code letter in the telephone code number. (Refer to Table A.)

1.08 Nonmodular version desk telephones (no longer available) include a modular handset cord and a line cord. The line cord is terminated on one end with a modular plug for inserting into the modular jack in the telephone. The line cord is terminated on the other end with spade-tip connectors for attaching to a nonmodular wall jack. This version is designated by the code letter O.

1.09 Full-modular version desk telephones are equipped with or without a modular handset cord and a modular line cord. However, all full-modular desk telephones are equipped with jacks to accept the plugs of a modular handset cord and a modular line cord. The full-modular version with a modular handset cord and a modular line cord is

TABLE A
ORDERING INFORMATION - TELEPHONES

CODE NUMBERS									
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:									
(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			
3200	Trendline Dial Light, Pushbutton Dial, Desk Telephone	00, 09, 13, 15, 44, 45, And 47 (Available On All Models)	M	BA	20, 21	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	M	Full-Modular (With Cords)	BA	Straight-Line	20	No Special Feature	M	Metropolitan (Letters & Numerals)
09	Ivory					21	20 With 9-Foot Handset Cord		
13	Beige								
15	White								
44	Light Ash								
45	Cocoa Brown								
47	Cherry Red								

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

1.10 The Model 3200 desk telephones are described in the following paragraphs. The circuit label drawing for these telephones is contained in Section 50-200-108.

MODEL 3200 () 20**

1.11 The Model 3200** () 20 is a single-line, pushbutton dial, desk telephone. It provides no special features. The base assembly for the Model 3200 desk telephone includes the ringer and the hookswitch assembly. The handset assembly includes the transmitter assembly, the receiver, the

dial network assembly, and the transformer printed board assembly. The components in the handset are plugged in or connected by spade-tip connectors.

1.12 The transmitter is an electret condenser microphone with a permanent electrical charge. The receiver is a central armature type compatible with hearing aids that have a T-Switch (Telecoil). The dial network assembly converts the dial keypad inputs into DTMF (Dual Tone Multi-frequency) tones and acts as the network circuitry for the transmitter and receiver. The transformer printed board assembly supplies the voltage to the dial light circuit. An operator recall button, located below the dial keypad, may be momentarily pressed to disconnect a line. This allows a series of calls to be made without operating the telephone hookswitch.

MODEL 3200 () 21**

1.13 The Model 3200** () 21 is the same as the Model 3200** () 20 with the addition of a 9-foot handset cord.

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 circuit label for installation wiring of the nonmodular version telephones.

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-200-107.

Warning: The electret condenser microphone used in the Model 3200 telephone handset may be damaged by cleaning solvents. Solvents that contain acids or ammonia emit fumes that may damage the internal components of the microphone. When cleaning the handset, use solvents sparingly. Apply solvents with a cloth to avoid direct contact with the microphone.

TRENDLINE DIAL LIGHT PUSHBUTTON DIAL, DESK TELEPHONES REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the Trendline dial light, pushbutton dial, desk telephones. (See Figure 1.) An exploded-view drawing of the telephones with major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

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

1.03 For additional information on description and installation of the telephones, refer to Section 50-200-106. The circuit label appears in Section 50-200-108. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 3200 desk telephones are Trendline, pushbutton dial telephones equipped with a dial light. The dial light is on when the station user goes off-hook. These telephones are anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the telephone handset and conventional components are used in the telephone base.

1.05 The Model 3200 desk telephones are identified by a coded label affixed to the bottom of the telephone base. Refer to Section 50-200-106 of the CORTELCO Telephone Apparatus Practices Manual for ordering information of complete telephones and an explanation of each code number.



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Figure 1: Trendline Dial Light, Pushbutton Dial, Desk Telephone

TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED	
			3200/20	3200/21
Trendline Dial Light, Pushbutton Dial, Desk Telephone				
1	2120**-20M	Handset Assembly	1	1
2	087514-101	Retainer, Number Card	1	1
3	087513-101	Card, Number	1	1
4	600017-204-004	Screw, Handset Housing	2	2
5	185435-0**	Housing, Handset	1	1
6	184659-101	Gasket, Receiver	1	1
7	187120-102	Receiver	1	1
8	185442-101	Receiver Cup Assembly	1	1
9	180245-102	Screw, Receiver Cup Mounting	2	2
10	185439-101	Faceplate	1	1
11	185440-107	Dial Keypad Assembly ¹	1	1
12	601847-536-001	PCB Assembly	1	1
	185418-101	Switchplate (Not Shown)	1	1
13	086135-102	Screw, PCB Mounting	1	1
14	601848-536-001	Transformer Printed Board Assembly	1	1
15	185434-0**	Cover, Handset	1	1
16	185452-101	Spring, Coiled	1	1
17	185427-101	Button, Recall	1	1
18	187434-102	Screw, Mounting Dial Keypad And Transmitter Assembly	4	4
19	182947-103	Modular Jack Assembly (Handset Cord)	1	1
20	185449-101	Transmitter Assembly	1	1
21	185451-101	Microphone Assembly	1	1
22	185447-101	Boot, Microphone Housing	1	1
23	185446-101	Support, Microphone	1	1
24	185448-101	Gasket, Transmitter	1	1
25	0AG1**-OBA	Base And Housing Assembly (Nonmodular) ⁴	1	—
25	0AG1**-FBA	Base And Housing Assembly (Full-Modular, Less Cord) ⁴	1	—
25	0AG1**-MBA	Base And Housing Assembly (Full-Modular, With Cord)	1	1
26	088554-0**	Nameplate	1	1
27	095995-103	Capacitor	1	1
28	184518-101	Terminal Board Assembly	1	1
29	184550-102	Cradle Switch Assembly ¹	1	1
30	184514-101	Arm, Lever	1	1
31	187962-101	Spring, Lever Arm	1	1
32	184519-101	Pin, Pivot	1	1
33	184406-101	Insulator Assembly (Line Cord)	1	1
34	184566-101	Base Assembly	1	1
		Plastic Base ²	1	1
	184655-101	Threaded Insert (Not Shown)	1	1
35	000153-ABA	Ringer, 4-Wire (With ANI) ^{1,3}	1	1
35	000153-SBA	Ringer, 2-Wire (Less ANI) ^{1,3}	1	1
35	000153-PBA	Ringer, 2-Wire (Less ANI) ^{1,3}	1	1
36	184549-101	Foot	4	4
37	182990-101	4-Pin Insulator Assembly (Handset Cord)	1	1
38	182988-101	Modular Jack Assembly (Handset Cord)	1	1

TABLE A
REPLACEMENT PARTS LIST (Cont)

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED	
			3200/20	3200/21
		Trendline Dial Light, Pushbutton Dial, Desk Telephone		
39	184249-0**	Housing, Base	1	1
40	088773-102	Plunger	1	1
41	095992-102	Screw, Base Housing	2	2
42	9018**-072	Cord, Handset (Modular, 6-Foot)	1	—
42	9018**-108	Cord, Handset (Modular, 9-Foot)	—	1
43	182827-084	Cord, Line (Full-Modular)	1	1
44	185684-084	Cord, Line (Nonmodular)*	1	—
	096407-102	Screw (Not Shown)	2	2
	180221-106	Screw (Not Shown)	1	1
	079485-102	Screw (Not Shown)	1	1

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NOTES:

** Substitute A 2-Digit Color Code When Ordering.

¹ Refer To Component Parts Section Of This Manual For An Assembly Parts List.

² NSS (This Item Is Not Serviced Separately.)

³ The 000153-SBA 2-Wire Ringer Replaced The 000153-ABA 4-Wire Ringer. The 000153-PBA Ringer Replaced The 000153-SBA Ringer. The 000153-ABA Ringer Must Be Ordered Separately To Adapt The Telephone For ANI Capabilities.

⁴ These Products Have Been Discontinued, But Are Included To Provide A Source Of Information For Telephones Still In Service.

TRENDLINE DIAL LIGHT PUSHBUTTON DIAL, DESK TELEPHONES CIRCUIT LABELS

1. GENERAL

1.01 This document covers the Trendline dial light, pushbutton dial, desk telephones. (See Figure 1.) The circuit label for the Trendline dial light, pushbutton dial, desk telephones is included. (See Table A.)

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

1.03 For additional information on description and installation of the telephones, refer to Section 50-200-106. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-200-107. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 3200 desk telephones are Trendline, pushbutton dial telephones equipped with a dial light. The dial light is on when the station user goes off-hook. These telephones are anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the telephone handset and conventional components are used in the telephone base.

1.05 The Model 3200 desk telephones are identified by a coded label affixed to the bottom of the telephone base. Refer to Section 50-200-106 of the CORTELCO Telephone Apparatus Practices Manual for ordering information of complete telephones and an explanation of each code number.



AW86-375

Figure 1: Trendline Dial Light, Pushbutton Dial, Desk Telephone

TABLE A
LIST OF CIRCUIT LABELS

MODEL NO	TYPE NO	FIGURE NO
3200** OBA	20	2
3200** FBA	20	2
3200** MBA	20, 21	2

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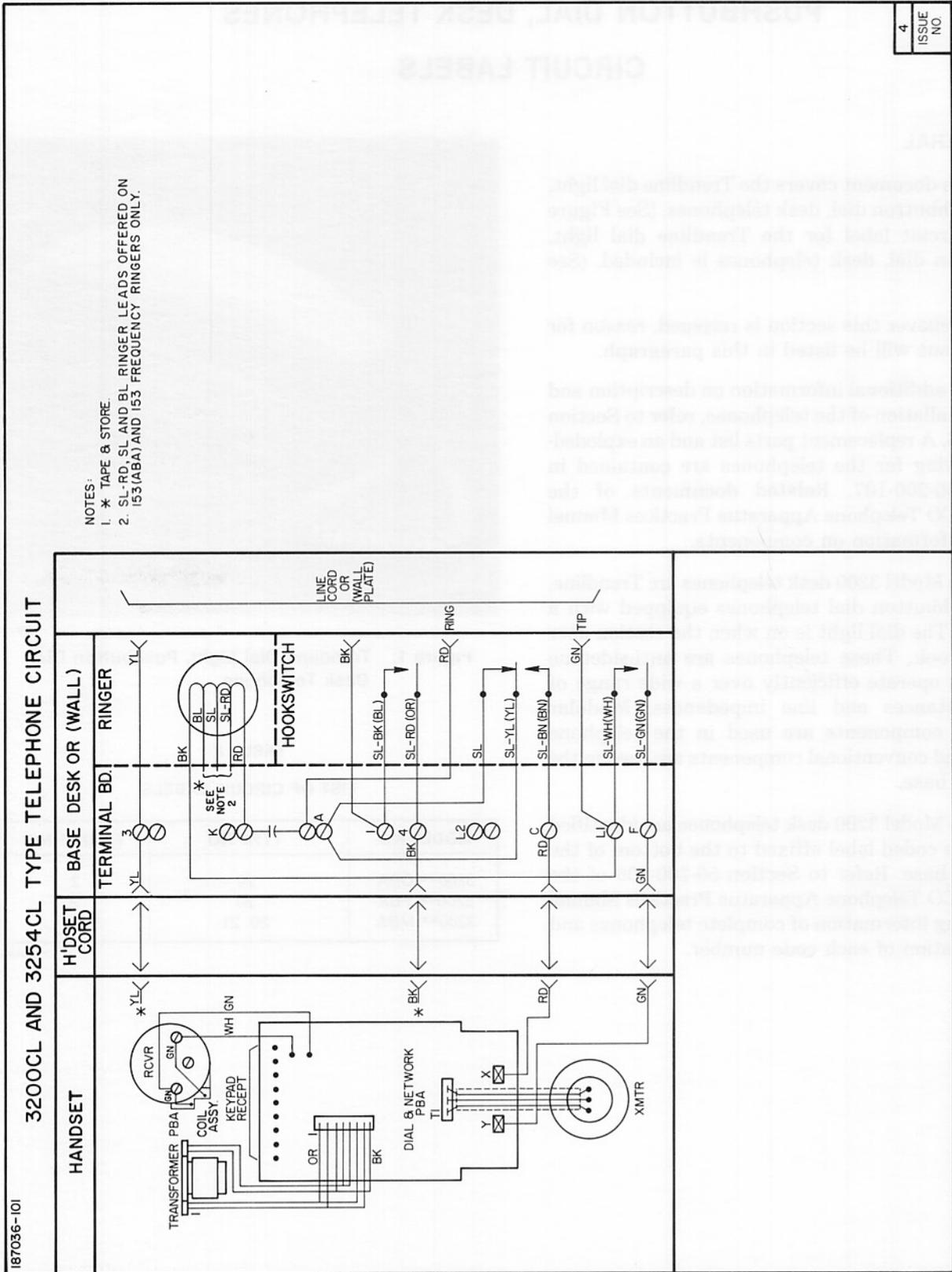


Figure 2: Circuit Label, Model 3200**OBA Type 20; Model 3200**FBA Type 20; Model 3200**MBA Types 20, 21

TRENDLINE, PUSHBUTTON DIAL, DESK/WALL TELEPHONES

GENERAL DESCRIPTION

CONTENTS	PAGE
1. GENERAL DESCRIPTION	1
MODEL 8225** () 21	1
2. INSTALLATION	2
3. MAINTENANCE	3
4. OPERATION	3

1. GENERAL DESCRIPTION

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



AW89-214

Figure 1: Trendline, Pushbutton Dial, Desk/Wall Telephone

- 1.02 Whenever this section is reissued, reason for the 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 50-225-101. Circuit labels are not provided for the telephones. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 8225 telephones are Trendline, pushbutton dial telephones equipped with a dial light. The dial light is on when the station user goes off-hook. These telephones are 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.

1.05 The Model 8225 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.

1.06 The Model 8225 telephones are available in full-modular versions. Full-modular version telephones are equipped with a modular handset cord, a modular line cord for desk mounting, and a built-in modular line cord for wall mounting. The modular handset cord and the modular line cord are terminated on each end with modular plugs. The built-in line cord is terminated on one end with a modular plug and on the other end with spade tip connectors. This version is designated by the code letter M. (Refer to Table A.)

1.07 The Model 8225 telephone is described in the following paragraphs.

MODEL 8225** () 21

1.08 The Model 8225 telephone is a single-line, pushbutton dial, desk/wall telephone equipped with an operator recall button, tone/pulse switchable dialing, redial, and timed hookswitch flash.

1.09 An operator recall button, located below the dial keypad, may be momentarily pressed to disconnect a line. This allows a series of calls to be made without operating the telephone hookswitch.

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

2.02 To install as a desk telephone:

- (a) Insert a modular plug of the long line cord into the modular jack in the bottom of the telephone base.
- (b) Insert the plug on the other end of the line cord into a standard modular telephone jack.
- (c) Route the line cord through the channel in the bottom of the telephone base (see Figure 2), and press under the two tabs at the top of the channel.

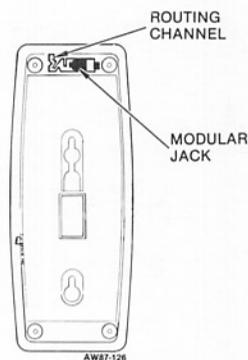


Figure 2: Line Cord Connecting Diagram - Desk Telephone

2.03 To install as a wall telephone:

- (a) Remove the modular plug of the short line cord from its storage area in the bottom of the telephone base. (See Figure 3.)
- (b) Insert the modular plug into the modular jack of the wall jack assembly. Fold the excess cord into the storage area.
- (c) Note the two mounting rivets on the wall jack assembly. Align the base so that the two mounting rivets are inserted into the two mounting holes in the bottom of the telephone.

Slide the base downward until it snaps into position.

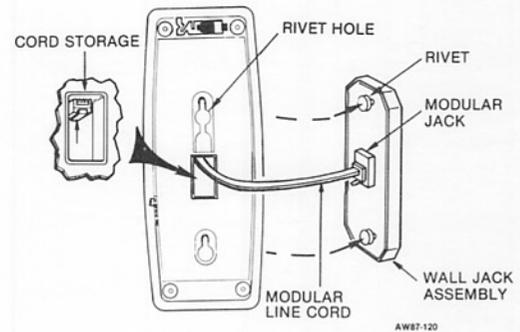


Figure 3: Installation Diagram - Wall Telephone

3. MAINTENANCE

- 3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-225-101.

Warning: *The electret condenser microphone used in the Model 8225 telephone handset may be damaged by cleaning solvents. Solvents that contain acids or ammonia emit fumes that may damage the internal components of the microphone. When cleaning the handset, use solvents sparingly. Apply solvents with a cloth to avoid direct contact with the microphone.*

4. OPERATION

- 4.01 To automatically redial the last number dialed:
- (a) Lift the handset and check for dial tone.
 - (b) Press the REDIAL button.
- 4.02 To send a flash during an active call, press and release the FLASH button. The results depend on the connected telephone service.

TRENDLINE, PUSHBUTTON DIAL, DESK/WALL TELEPHONES

REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the Trendline, pushbutton dial, desk/wall telephone. (See Figure 1.) An exploded-view drawing of the telephone with the major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

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

1.03 For additional information on description and installation of the telephones, refer to Section 50-225-100. Circuit labels are not provided for the telephones. Related documents of the CORTELCO

Telephone Apparatus Practices Manual provide information on components.

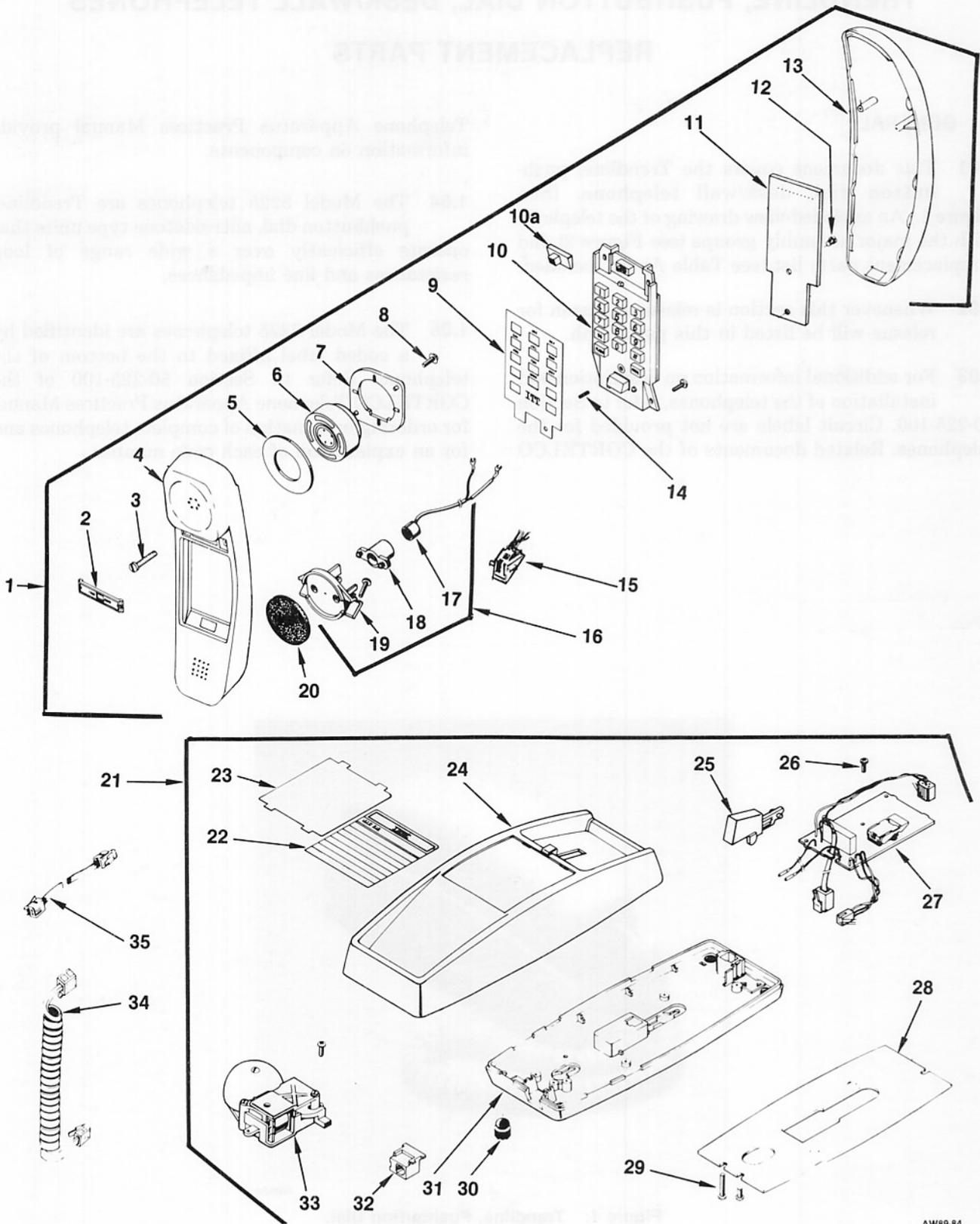
1.04 The Model 8225 telephones are Trendline, pushbutton dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 8225 telephones are identified by a coded label affixed to the bottom of the telephone. Refer to Section 50-225-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information of complete telephones and for an explanation of each code number.



AW89-214

Figure 1: Trendline, Pushbutton Dial, Desk/Wall Telephone



AW89-84

Figure 2: Trendline, Pushbutton Dial, Desk/Wall Telephone, Exploded View

TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED
		Trendline, Pushbutton Dial, Desk/Wall Telephone	8225/21F
1	187516-0**	Handset Assembly	1
2	187524-0**	Cover, Tone-Pulse Actuator	1
3	187434-104	Screw, Housing	2
4	185435-0**	Handset Base	1
5	187529-101	Gasket	1
6	187517-101	Receiver	1
7	187518-101	Clamp, Receiver	1
8	187434-102	Screw, Assembly	6
9	187521-101	Faceplate	1
10	187535-101	Dial Assembly	1
10a	187523-101	Actuator, Tone-Pulse	1
11	187660-101	Network PCB	1
12	184758-104	Screw, PCB Mounting	1
13	185434-0**	Handset Cover	1
14	187053-101	Spring, Coiled	1
15	182947-104	Modular Jack Assembly (Handset Cord)	1
16	185449-102	Transmitter Assembly	1
17	187651-101	Microphone Assembly	1
18	187525-101	Boot, Microphone	1
19	185446-101	Support, Transmitter	1
20	187555-101	Gasket, Foam	1
21	187515-1**	Base Assembly	1
22	187505-101	Card, Directory	1
23	187504-101	Cover, Directory Card	1
24	187502-0**	Housing	1
25	187503-101	Plunger	1
26	600017-204-002	Screw, Assembly	4
27	187510-101	PCB Assembly, Base	1
28	187501-101	Plate, Base	1
29	600017-204-006	Screw, Base Cover Mounting	2
30	184403-101	Foot	4
31	187500-101	Base	1
32	182988-101	Modular Jack	1
33	000150-PBA	Ringer	1
34	9018**-108	Cord, Coiled	1
35	600989-540-084	Cord, Line	1

AW99216

TRENDLINE, ROTARY DIAL, WALL TELEPHONES

GENERAL DESCRIPTION

CONTENTS	PAGE
1. GENERAL DESCRIPTION	1
MODEL 254** () 30	2
MODEL 254** () 20	2
MODEL 254** () 21	2
2. INSTALLATION	2
3. MAINTENANCE	3

1. GENERAL DESCRIPTION

1.01 This document covers the Trendline, rotary dial, wall telephones. (See Figure 1.) A general description plus information peculiar to Trendline, rotary dial, wall telephones is included.

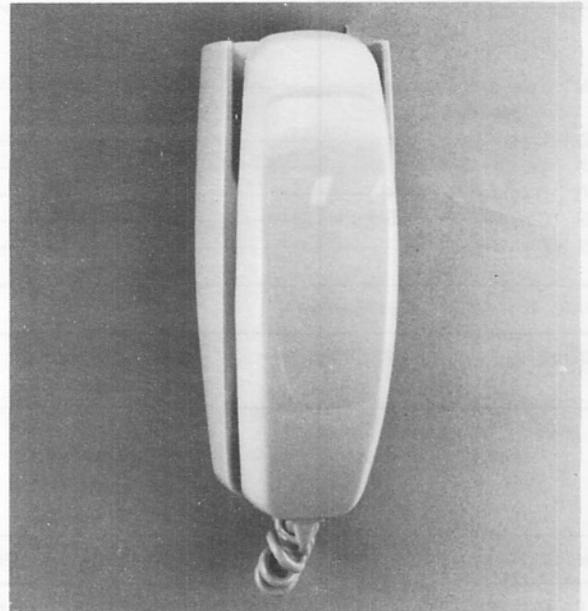
1.02 This section is reissued to remove the ordering information for the Less Ringer telephones and other manufacturing discontinued items of the Trendline, rotary dial, wall telephones.

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 50-254-101. The circuit labels appear in Section 50-254-102. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 254 wall telephones are Trendline, rotary dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 254 wall telephones are identified by a coded label affixed to the bottom of the base. Refer to ordering information in Table A for an explanation of each code number.



AW62-464

Figure 1: Trendline, Rotary Dial, Wall Telephone

1.06 Trendline wall telephones are nonmodular, quarter-modular, or full-modular versions. These versions are designated by a code letter in the telephone code number. (Refer to Table A.)

1.07 Nonmodular version telephones (no longer available) include a modular 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 modular handset cord and a modular plug as part of the base assembly. 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 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 without a modular handset cord (no longer available) is designated by the code letter F. The full-modular version of the telephone with a modular handset cord,

TABLE A
ORDERING INFORMATION - TELEPHONES

CODE NUMBERS									
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:									
(1) Type of Instrument (See Part 1)	_____			254	_____		44	_____	
(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			
254	Trendline, Rotary Dial, Wall Telephone	00, 09, 13, 15, 44, 45, And 47 (Available On All Models)	M	BA	21	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	M	Full-Modular (With Handset Cord)	BA	Straight-Line	21	Equipped With 9-Foot Handset Cord	M	Metropolitan (Letters & Numerals)
09	Ivory								
13	Beige								
15	White								
44	Light Ash								
45	Cocoa Brown								
47	Cherry Red								

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terminated on each end with modular plugs, is designated by the code letter M.

1.10 The Model 254 wall telephones are described in the following paragraphs. The circuit labels for these telephones are contained in Section 50-254-102.

MODEL 254 () 30**

1.11 The Model 254** () 30 is a single-line, Trendline, rotary dial, wall telephone. It provides no special features and is nonmodular. The base assembly for this telephone includes the ringer and hookswitch assemblies and is connected to the handset assembly by a plug-in handset cord. The handset assembly includes the transmitter, receiver, network, and dial assemblies. An operator recall button, located below the dial, provides dial tone

when momentarily pressed. This allows a series of calls to be made without operating the hookswitch in the telephone base.

MODEL 254 () 20**

1.12 The Model 254** () 20 is the same as the Model 254** () 30 except that it provides a modular plug for installation.

MODEL 254 () 21**

1.13 The Model 254** () 21 is the same as the Model 254** () 20 except it is equipped with a 9-foot handset cord.

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.

2.02 A lamp may be added to Trendline telephones for illuminating the dial and number card. The lamp must be ordered separately. Installation consists of inserting the lamp into the lamp housing located in the handset under the number card retainer. A power transformer must be ordered and installed at the station connecting block as shown in Figure 2. Refer to Section 50-254-101 for lamp and power transformer ordering information.

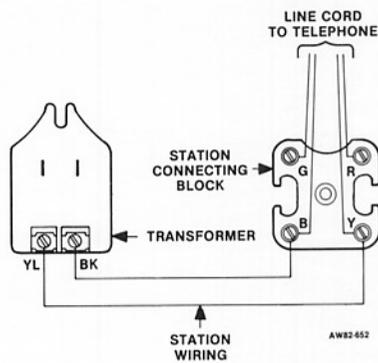


Figure 2: Installation Of Power Transformer

Caution: Care must be taken when installing the housing to the base on Model 254 wall telephones. Hold the hookswitch plunger up as shown in Figure 3 to avoid damaging the hookswitch.

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-254-101.

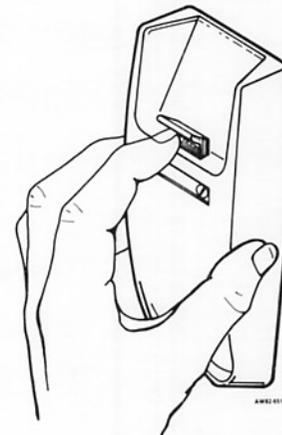


Figure 3: Installing The Housing On The Base

TRENDLINE, ROTARY DIAL, WALL TELEPHONES

REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the Trendline, rotary dial, wall telephone. (See Figure 1.) An exploded-view drawing of the telephone with major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

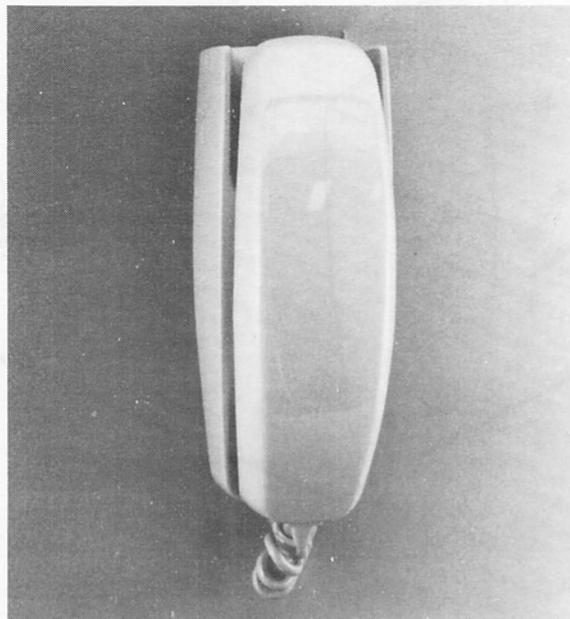
1.02 This section is reissued to reflect changes in the Trendline, rotary dial, wall telephone.

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 For additional information on description and installation of the telephones, refer to Section 50-254-100. The circuit labels appear in Section 50-254-102. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 254 wall telephones are Trendline, rotary dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances.

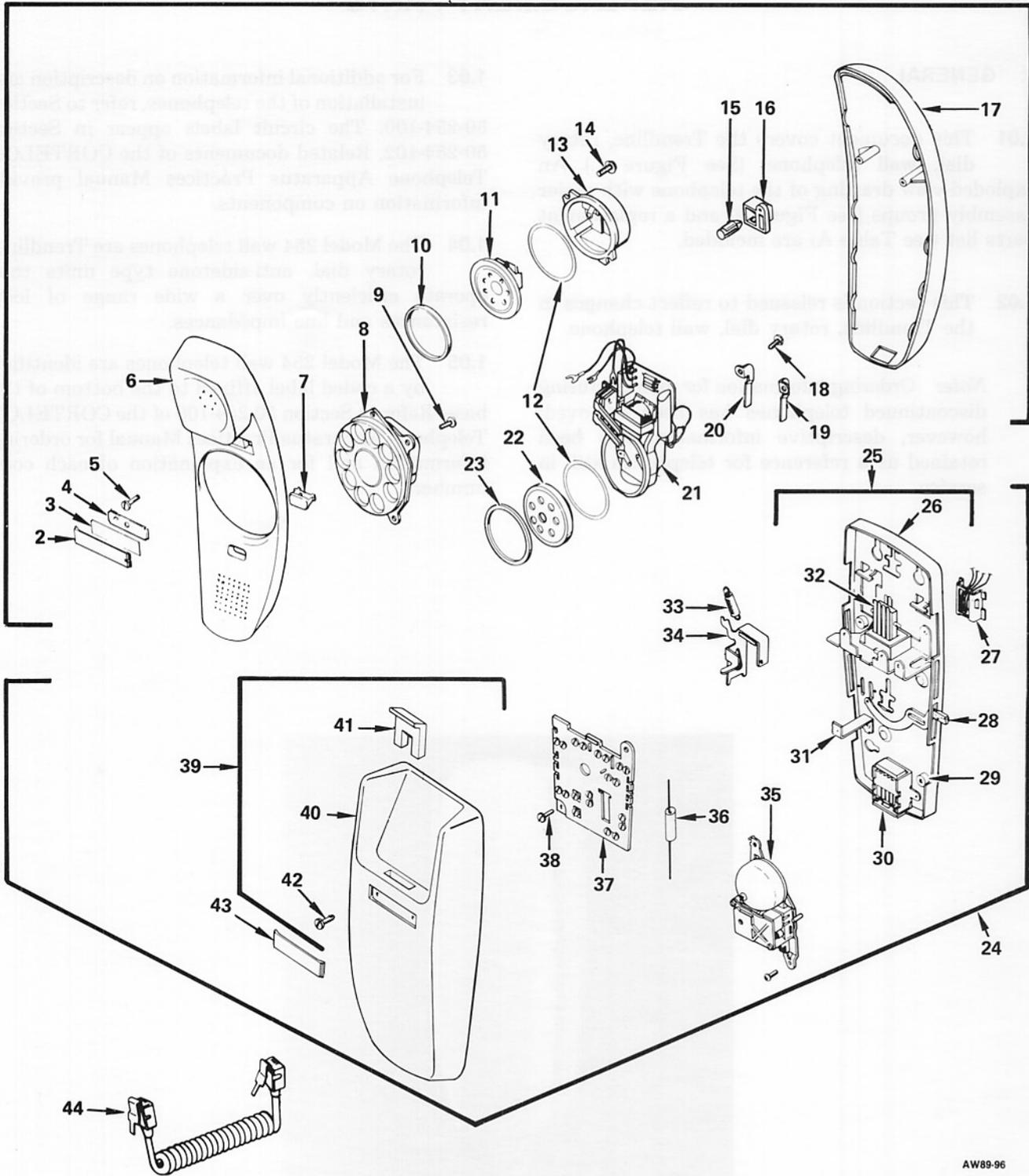
1.05 The Model 254 wall telephones are identified by a coded label affixed to the bottom of the base. Refer to Section 50-254-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information and for an explanation of each code number.



AW82-464

Figure 1: Trendline, Rotary Dial, Wall Telephone

TRENDLINE ROTARY DIAL TELEPHONES



AW89-96

Figure 2: Trendline, Rotary Dial, Wall Telephone, Exploded View

TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED		
			254/30	254/20	254/21
		Trendline, Rotary Dial, Wall Telephone			
1	0220**-30M	Handset Assembly (Nonmodular And Quarter-Modular)	1	1	1
1	0200**-20M	Handset Assembly (Full-Modular)	—	1	1
2	087514-101	Retainer, Number Card	1	1	1
3	087513-101	Card, Number	1	1	1
3	087513-102	Card, Number, Strip of 6	1	1	1
4	088593-101	Shield, Light	1	1	1
5	180329-101	Screw, Handset Housing	2	2	2
	600017-204-004	Screw, PH (Not Shown)	—	—	2
6	088707-0**	Housing, Handset	1	1	1
7	088701-0**	Button, Recall	1	1	1
8	001000-00G	Dial Assembly, Metropolitan (Letters And Numerals) ¹	1	1	1
	180308-101	Card, Number (For Dial Finger Wheel, Not Shown)	1	1	1
	180314-101	Insert, Finger Wheel (Plastic Card Cover, Not Shown)	1	1	1
9	096407-102	Screw, Dial Mounting	3	3	3
10	088704-101	Gasket, Receiver	1	1	1
11	183464-101	Receiver	1	1	1
11	187120-102	Receiver	—	—	1
12	088706-101	Gasket	2	2	2
13	183927-101	Cup Assembly, Receiver	1	1	1
14	180245-102	Screw, Cup Assembly Mounting	2	2	2
15	096405-101	Lamp ⁵	1	1	1
16	183092-101	Housing, Lamp ⁵	1	1	1
17	088718-0**	Cover, Handset	1	1	1
18	096407-102	Screw	2	2	2
19	088719-102	Bracket, Retainer L. H.	1	1	1
20	088719-101	Bracket, Retainer R. H.	1	1	1
21	183091-101	Network Assembly	1	1	1
21	184130-101	Modular Network Assembly (Full-Modular)	—	1	1
22	075555-101	Transmitter	1	1	1
23	088705-101	Gasket, Transmitter	1	1	1
24	0AC1**-OBA	Base And Housing Assembly (Nonmodular) ³	1	—	—
24	0AC1**-OLR	Base And Housing Assembly (Nonmodular, Less Ringer) ³	1	—	—
24	0AC1**-QBA	Base And Housing Assembly (Quarter-Modular) ³	—	1	1
24	0AC1**-QLR	Base And Housing Assembly (Quarter-Modular, Less Ringer) ³	—	1	1
24	0AC1**-FBA	Base And Housing Assembly (Full-Modular)	—	1	1
24	0AC1**-FLR	Base And Housing Assembly (Full-Modular, Less Ringer) ³	—	1	1
25	182942-107	Base Assembly (Nonmodular) ³	1	—	—
25	182942-101	Base Assembly (Quarter-Modular) ³	—	1	1
25	182942-113	Base Assembly (Full-Modular)	—	1	1
26		Plate, Base ²	1	1	1
27	182948-101	Plug, Modular	—	1	1
28	182866-101	Lever, Volume Control	1	1	1
29	095965-101	Fastener	2	2	2
30	088563-101	Receptacle And Bracket Assembly	1	1	1
30	088563-102	Receptacle And Bracket Assembly (Full-Modular)	—	1	1
31	088550-101	Bracket	1	1	1
32	088777-103	Cradle Switch Assembly ¹	1	1	1
33	075307-104	Spring, Lever Arm	1	1	1
34	182979-101	Arm, Lever	1	1	1

SECTION 50-254-101, ISS 3

TABLE A
REPLACEMENT PARTS LIST (Cont)

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED		
			254/30	254/20	254/21
		Trendline, Rotary Dial, Wall Telephone			
35	000153-ABA	Ringer ^{1, 4}	1	1	1
35	000153-PBA	Ringer ^{1, 4}	1	1	1
36	095995-103	Capacitor ^{1, 4}	1	1	1
	180221-102	Screw (Not Shown)	2	2	2
37	088557-101	Terminal Board Assembly	1	1	1
38	079485-102	Screw, Terminal Board Mounting	2	2	2
39	088551-0**	Housing Assembly, Base	1	1	1
40	088552-0**	Housing	1	1	1
41	088553-101	Plunger, Cradle	1	1	1
42	095992-102	Screw, Housing	2	2	2
43	088554-0**	Nameplate	1	1	1
44	1027**-072	Cord, Coiled (Nonmodular And Quarter-Modular) ³	1	1	—
44	1027**-108	Cord, Coiled (9-Foot, Quarter-Modular) ³	—	—	1
44	9018**-072	Cord, Coiled (Full-Modular) ³	—	1	—
44	9018**-108	Cord, Coiled (9-Foot, Full-Modular)	—	—	1
	000031-101	Transformer, Power (Not Shown) ⁵	1	1	1

AW89-101

Notes:

** Substitute 2-Digit Color Code When Ordering.

¹ Refer To Component Parts Section Of This Manual For Assembly Parts List.

² This Is An NSS Item (Not Serviced Separately).

³ These Products Have Been Discontinued, But Are Included To Provide A Source Of Information For Telephones Still In Service.

⁴ The 000153-PBA Ringer Replaces The 000153-ABA Ringer.

⁵ This part must be ordered separately.

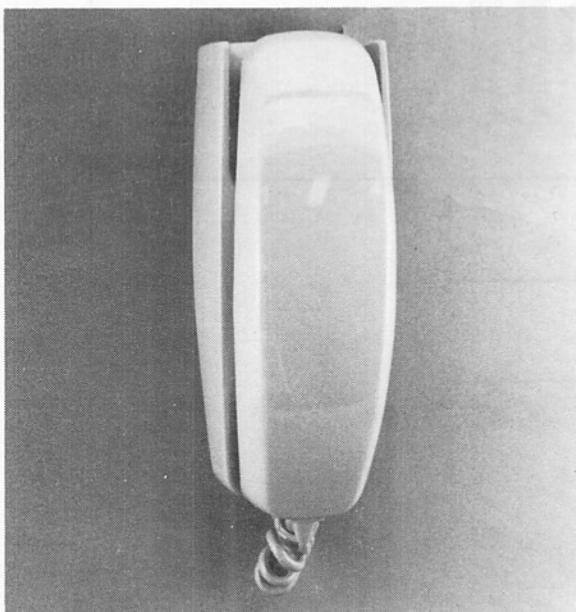
TRENDLINE, ROTARY DIAL, WALL TELEPHONES

CIRCUIT LABELS

1. GENERAL

1.01 This document covers the Trendline, rotary dial, wall telephones. (See Figure 1.) Circuit labels for Trendline, rotary dial, wall telephones are included. (See Table A.)

1.02 This section is reissued to conform to CORTELCO Practices format. Issue 2 provided the latest issue of circuit labels for the Trendline, rotary dial, wall telephones.



AWB2-464

Figure 1: Trendline, Rotary Dial, Wall Telephone

Note: Selected versions of the Trendline, rotary dial, wall telephone have been manufacturing discontinued; however, descriptive information has been retained as a reference for telephones still in service.

1.03 For additional information on description and installation of the telephones, refer to Section 50-254-100. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-254-101. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 254 wall telephones are Trendline, rotary dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 254 wall telephones are identified by a coded label affixed to the bottom of the base. Refer to Section 50-254-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information and an explanation of each code number.

TABLE A

LIST OF CIRCUIT LABELS

MODEL NO	TYPE NO	FIGURE NO
254**OBA	30	2
254**QBA	20, 21	3
254**FBA	20	4
254**MBA	20, 21	4

AWB9-105

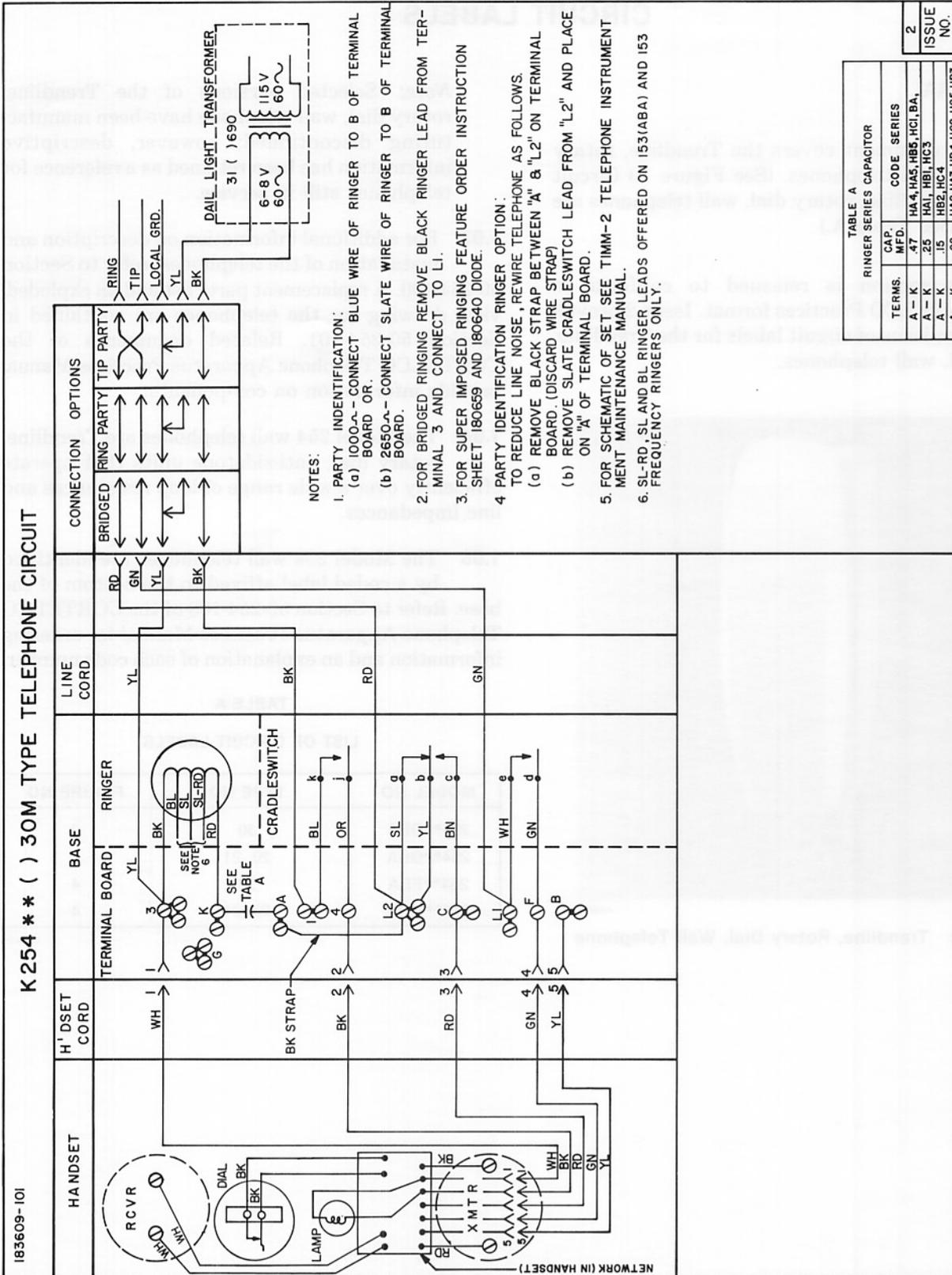


Figure 2: Circuit Label, Model 254** OBA Type 30

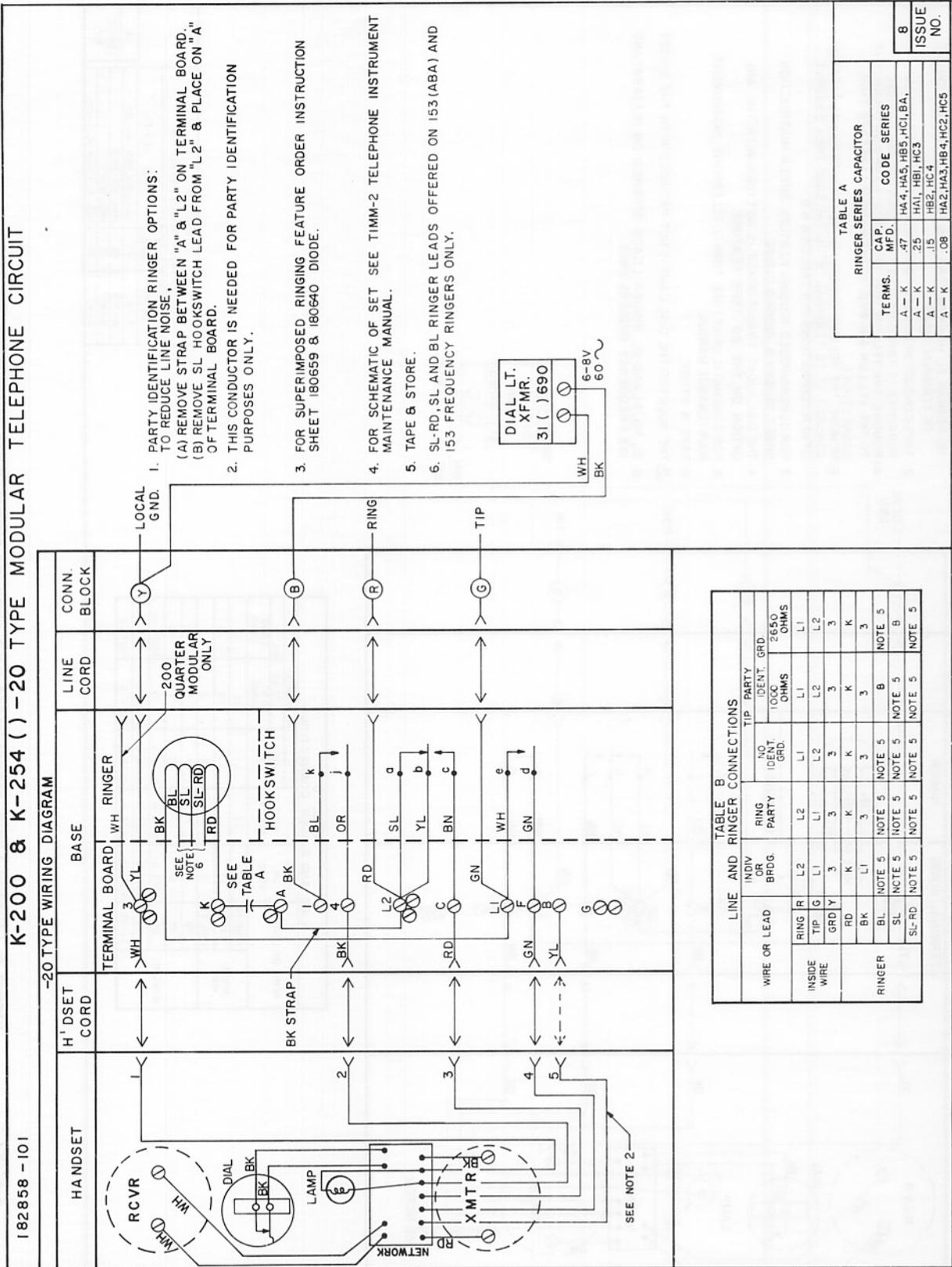


Figure 3: Circuit Label, Model 254** QBA Types 20, 21

TRENDLINE, PUSHBUTTON DIAL, WALL TELEPHONES

GENERAL DESCRIPTION

	CONTENTS	PAGE
1.	GENERAL DESCRIPTION	1
	MODEL 2254** () 30.....	2
	MODEL 2254** () 20.....	2
	MODEL 2254** () 21.....	2
2.	INSTALLATION	2
3.	MAINTENANCE.....	2

1. GENERAL DESCRIPTION

1.01 This document covers the Trendline, pushbutton dial, wall telephones. (See Figure 1.) A general description plus information peculiar to Trendline, pushbutton dial, wall telephones is included.

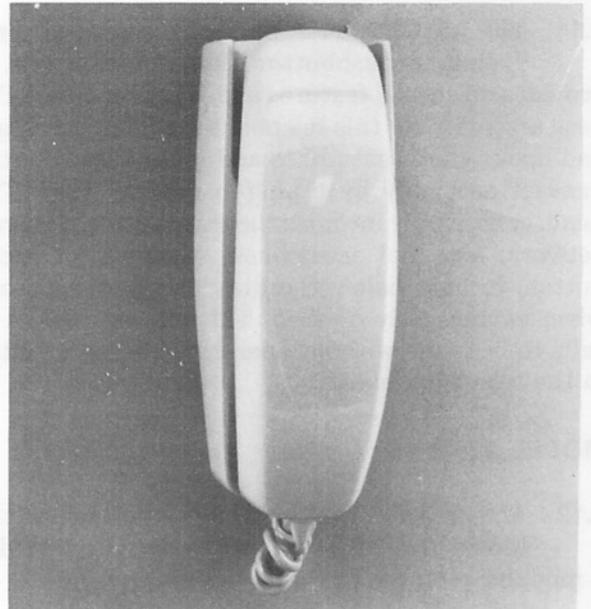
1.02 This section is reissued to delete the ordering information for the Trendline, pushbutton dial, wall telephones. The descriptive information has been retained as a reference for telephones still in service, although this telephone has been manufacturing discontinued.

1.03 A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-254-104. The circuit labels appear in Section 50-254-105. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 2254 wall telephones are Trendline, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 2254 wall telephones are identified by a code number stamped in ink on the bottom of the base.

1.06 Trendline wall telephones are nonmodular, quarter-modular, or full-modular versions. These versions are designated by a code letter in the telephone code number.



AWB2-464

Figure 1: Trendline, Pushbutton Dial, Wall Telephone

1.07 Nonmodular version telephones include a modular 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 include a modular handset cord and a modular plug as part of the base assembly. 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 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 without a modular handset cord is designated by the code letter F. 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.

1.10 The Model 2254 wall telephones are described in the following paragraphs. The circuit

SECTION 50-254-103, ISS 2

labels for these telephones are contained in Section 50-254-105.

MODEL 2254** () 30

1.11 The Model 2254** () 30 is a single-line, Trendline, pushbutton dial, wall telephone. It provides no special features and is nonmodular. The base assembly for this telephone includes the ringer and hookswitch assemblies and is connected to the handset assembly by a plug-in handset cord. The handset assembly includes the transmitter, receiver, network, and dial assemblies. An operator recall button, located below the dial, provides dial tone when momentarily pressed. This allows a series of calls to be made without operating the hookswitch in the telephone base.

MODEL 2254** () 20

1.12 The Model 2254** () 20 is the same as the Model 2254** () 30 except it provides a modular plug for installation.

MODEL 2254** () 21

1.13 The Model 2254** () 21 is the same as the Model 2254** () 20 except it is equipped with a 9-foot handset cord.

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.

2.02 A lamp may be added to Trendline telephones for illuminating the dial and number card. The lamp must be ordered separately. Installation consists of inserting the lamp into the lamp housing located in the handset under the number card retainer. A power transformer must be ordered and installed at the station connecting block as shown in Figure 2. Refer to Section 50-254-104 for lamp and power transformer ordering information.

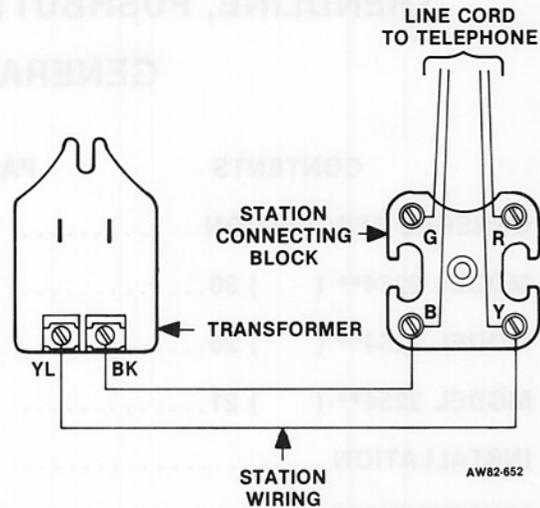


Figure 2: Installation Of Power Transformer

Caution: Care must be taken when installing the housing to the base on Model 2254 wall telephones. Hold the hookswitch plunger up as shown in Figure 3 to avoid damaging the hookswitch.

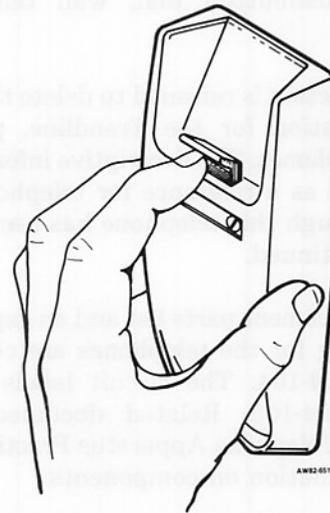


Figure 3: Installing The Housing On The Base

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-254-104.

TRENDLINE, PUSHBUTTON DIAL, WALL TELEPHONES

REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the Trendline, pushbutton dial, wall telephone. (See Figure 1.) An exploded-view drawing of the telephone with major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

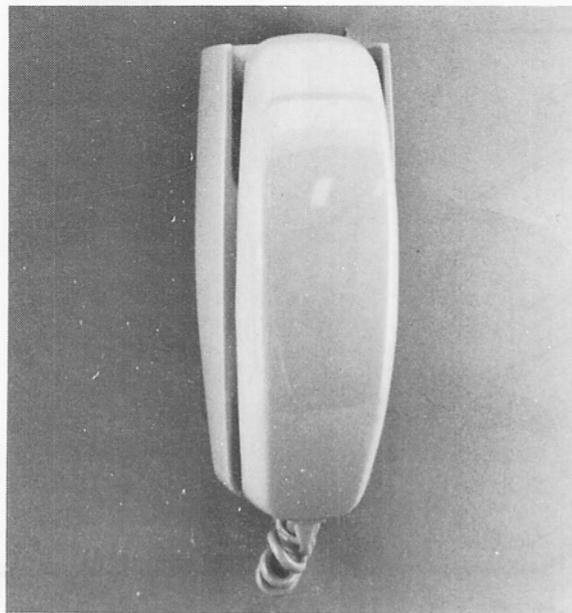
Note: The Trendline, pushbutton dial, wall telephone has been discontinued, but is included in the Telephone Apparatus Practices Manual to provide a source of information for Trendline telephones still in service.

1.02 This section is reissued to conform to CORTELCO Practices format. Issue 2 added changes in the Trendline, pushbutton dial, wall telephone.

1.03 For additional information on description and installation of the telephones, refer to Section 50-254-103. The circuit labels appear in Section 50-254-105. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 2254 wall telephones are Trendline, pushbutton dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 2254 wall telephones are identified by a code number stamped in ink on the bottom of the base.



AW82-464

Figure 1: Trendline, Pushbutton Dial, Wall Telephone

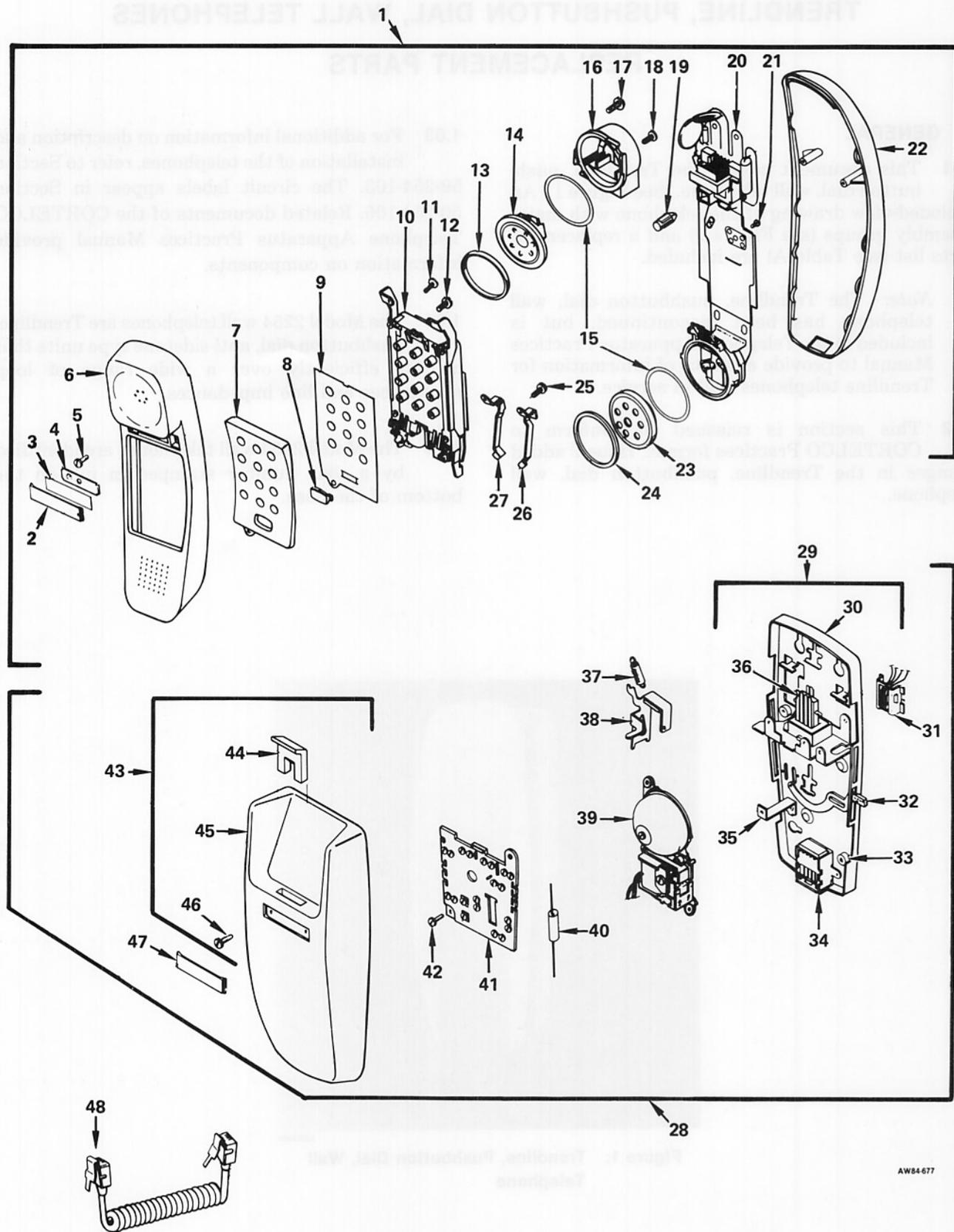


Figure 2: Trendline, Pushbutton Dial, Wall Telephone, Exploded View

TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED		
			2254/30	2254/20	2254/21
		Trendline, Pushbutton Dial, Wall Telephone			
1	2220**-30M	Handset Assembly (Nonmodular And Quarter-Modular)	1	1	1
1	2220**-30P	Handset Assembly (Nonmodular And Quarter-Modular With Polarity Guard)	1	1	1
1	2220**-20M	Handset Assembly (Full-Modular)	—	1	1
1	2220**-20P	Handset Assembly (Full-Modular With Polarity Guard)	—	1	1
2	087514-101	Retainer, Number Card	1	1	1
3	087513-102	Card, Number, Strip Of 6	1	1	1
4	088593-101	Shield, Light	1	1	1
5	180329-101	Screw, Handset Housing	2	2	2
6	180261-0**	Housing, Handset	1	1	1
7	180445-102	Guide, Light	1	1	1
8	180426-101	Button, Recall	1	1	1
9	180452-101	Card, Dial	1	1	1
10	003700-000	Dial Assembly ¹	1	1	1
11	096006-102	Screw, Dial Mounting (Upper)	2	2	2
12	180330-101	Screw, Dial Mounting (Lower)	2	2	2
13	180365-101	Gasket, Receiver	1	1	1
14	183464-101	Receiver	1	1	1
15	088706-101	Gasket	2	2	2
16	183926-101	Cup Assembly, Receiver	1	1	1
17	180245-102	Screw, Cup Assembly Mounting	2	2	2
18	182201-101	Screw, Flexprint Mounting	4	4	4
19	096405-101	Lamp (Ordered Separately)	1	1	1
20	180455-101	Network Assembly (Flexprint, Nonmodular, And Quarter-Modular)	1	1	1
20	180455-103	Network Assembly (Flexprint, Nonmodular, And Quarter-Modular With Polarity Guard)	1	1	1
20	180455-105	Network Assembly (Flexprint, Full-Modular)	—	1	1
20	180455-107	Network Assembly (Flexprint, Full-Modular With Polarity Guard)	—	1	1
21	180346-101	Screw, Flexprint Mounting	7	7	7
22	180262-0**	Cover, Handset	1	1	1
23	075555-101	Transmitter	1	1	1
24	088705-101	Gasket, Transmitter	1	1	1
25	096407-102	Screw	2	2	2
26	180424-101	Bracket, Retainer L. H.	1	1	1
27	180423-101	Bracket, Retainer R. H.	1	1	1
28	0AC1**-OBA	Base And Housing Assembly (Nonmodular)	1	—	—
28	0AC1**-OLR	Base And Housing Assembly (Nonmodular, Less Ringer)	1	—	—
28	0AC1**-QBA	Base And Housing Assembly (Quarter-Modular)	—	1	1
28	0AC1**-QLR	Base And Housing Assembly (Quarter-Modular, Less Ringer)	—	1	1
28	0AC1**-FBA	Base And Housing Assembly (Full-Modular)	—	1	1
28	0AC1**-FLR	Base And Housing Assembly (Full-Modular, Less Ringer)	—	1	1
29	182942-107	Base Assembly (Nonmodular)	1	—	—
29	182942-101	Base Assembly (Quarter-Modular)	—	1	1
29	182942-113	Base Assembly (Full-Modular)	—	1	1
30		Plate, Base ²	1	1	1
31	182948-101	Plug, Modular	—	1	1
32	182866-101	Lever, Volume Control	1	1	1
33	095965-101	Fastener	2	2	2

TABLE A
REPLACEMENT PARTS LIST (Cont)

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED		
			2254/30	2254/20	2254/21
		Trendline, Pushbutton Dial, Wall Telephone			
34	088563-101	Receptacle And Bracket Assembly	1	1	1
34	088563-102	Receptacle And Bracket Assembly (Full-Modular)	—	1	1
35	088550-101	Bracket	1	1	1
36	088777-103	Cradle Switch Assembly ¹	1	1	1
37	075307-104	Spring, Lever Arm	1	1	1
38	182979-101	Lever Arm	1	1	1
39	000153-ABA	Ringer ¹	1	1	1
40	095995-103	Capacitor	1	1	1
41	088557-101	Terminal Board Assembly	1	1	1
42	079485-102	Screw, Terminal Board Mounting	2	2	2
43	088551-0**	Housing Assembly, Base	1	1	1
44	088553-101	Plunger, Cradle	1	1	1
45	088552-0**	Housing	1	1	1
46	095992-102	Screw, Housing	2	2	2
47	088554-0**	Nameplate	1	1	1
48	1027**-072	Cord, Coiled (Nonmodular And Quarter-Modular)	1	1	—
48	1027**-108	Cord, Coiled (9-Foot, Quarter-Modular)	—	—	1
48	9018**-072	Cord, Coiled (Full-Modular)	—	1	—
48	9018**-108	Cord, Coiled (9-Foot, Full-Modular)	—	—	1
	000031-101	Transformer, Power (Not Shown) (Ordered Separately)	1	1	1

AW89-107

Notes:

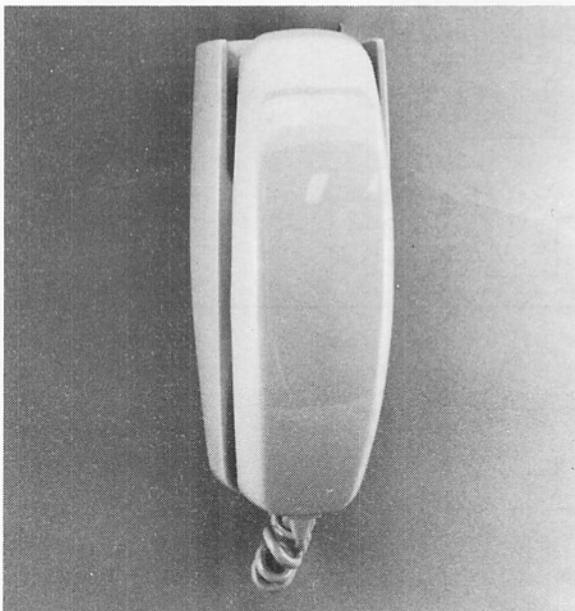
- ** Substitute 2-Digit Color Code When Ordering.
- ¹ Refer To Component Parts Section Of This Manual For Assembly Parts List.
- ² This Is An NSS Item (Not Serviced Separately).

TRENDLINE, PUSHBUTTON DIAL, WALL TELEPHONES

CIRCUIT LABELS

1. GENERAL

1.01 This document covers the Trendline, pushbutton dial, wall telephones. (See Figure 1.) Circuit labels for Trendline, pushbutton dial, wall telephones are included. (See Table A.)



AW82-464

Figure 1: Trendline, Pushbutton Dial, Wall Telephone

1.02 This section is reissued to conform to CORTELCO Practices format. Issue 2 provided the latest issue of circuit labels for the Trendline, pushbutton dial, wall telephones.

1.03 For additional information on description and installation of the telephones, refer to Section 50-254-103. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-254-104. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 2254 wall telephones are Trendline, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances.

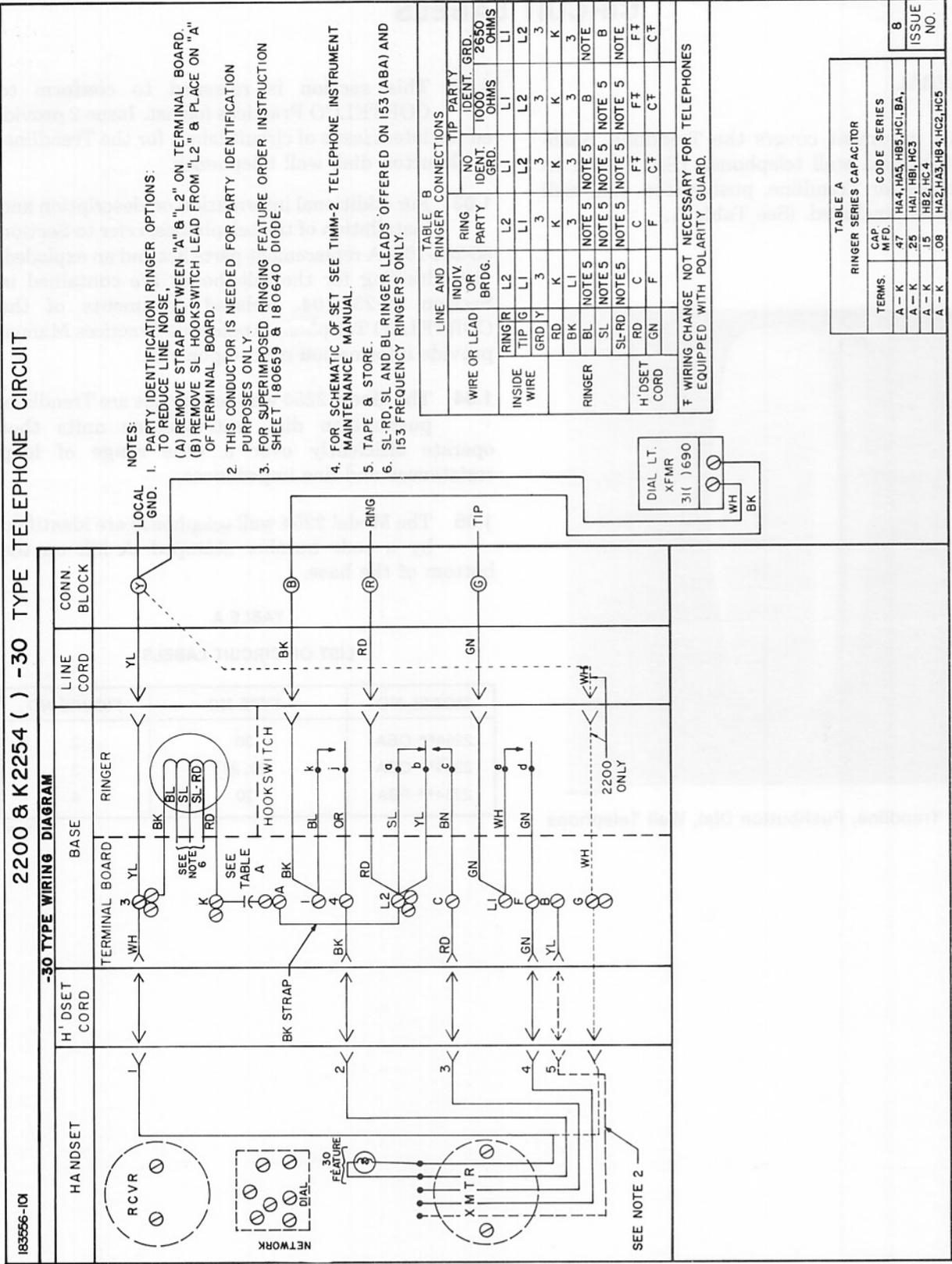
1.05 The Model 2254 wall telephones are identified by a code number stamped in ink on the bottom of the base.

TABLE A
LIST OF CIRCUIT LABELS

MODEL NO	TYPE NO	FIGURE NO
2254** OBA	30	2
2254** QBA	20, 21	3
2254** FBA	20	4

AW86-406

2200 & K2254 () -30 TYPE TELEPHONE CIRCUIT



- NOTES:
1. PARTY IDENTIFICATION RINGER OPTIONS: TO REDUCE LINE NOISE.
(A) REMOVE STRAP BETWEEN "A" & "L2" ON TERMINAL BOARD.
(B) REMOVE SL HOOKSWITCH LEAD FROM "L2" & PLACE ON "A" OF TERMINAL BOARD.
 2. THIS CONDUCTOR IS NEEDED FOR PARTY IDENTIFICATION PURPOSES ONLY.
 3. FOR SUPERIMPOSED RINGING FEATURE ORDER INSTRUCTION SHEET 180659 & 180640 DIODE.
 4. FOR SCHEMATIC OF SET SEE TIMM-2 TELEPHONE INSTRUMENT MAINTENANCE MANUAL.
 5. TAPE & STORE.
 6. SL-RD, SL AND BL RINGER LEADS OFFERED ON 153 (ABA) AND 153 FREQUENCY RINGERS ONLY.

TABLE B
LINE AND RINGER CONNECTIONS

WIRE OR LEAD	INDIV. OR BRDG.	RING PARTY	TIP PARTY	
			NO. IDENT. GRD.	1000 OHMS
INSIDE WIRE				
RINGER				
RD	L2	L1	L1	L1
GN	L1	L2	L2	L2
YL	3	3	3	3
BK	K	K	K	K
WH	L1	3	3	3
BL	NOTE 5	NOTE 5	NOTE 5	B NOTE
SL	NOTE 5	NOTE 5	NOTE 5	NOTE 5 B
SL-RD	NOTE 5	NOTE 5	NOTE 5	NOTE 5 FT
RD	F	F	F	CF
GN	F	F	F	CF

F WIRING CHANGE NOT NECESSARY FOR TELEPHONES EQUIPPED WITH POLARITY GUARD.

TABLE A
RINGER SERIES CAPACITOR

TERMS.	CAP. MFD.	CODE SERIES
A - K	47	HA4, HA5, HB5, HC1, BA,
A - K	25	HA1, HB1, HC3
A - K	15	HB2, HC4
A - K	.08	HA2, HA3, HB4, HC2, HC5

ISSUE NO. 8

Figure 2: Circuit Label, Model 2254**OBA Type 30

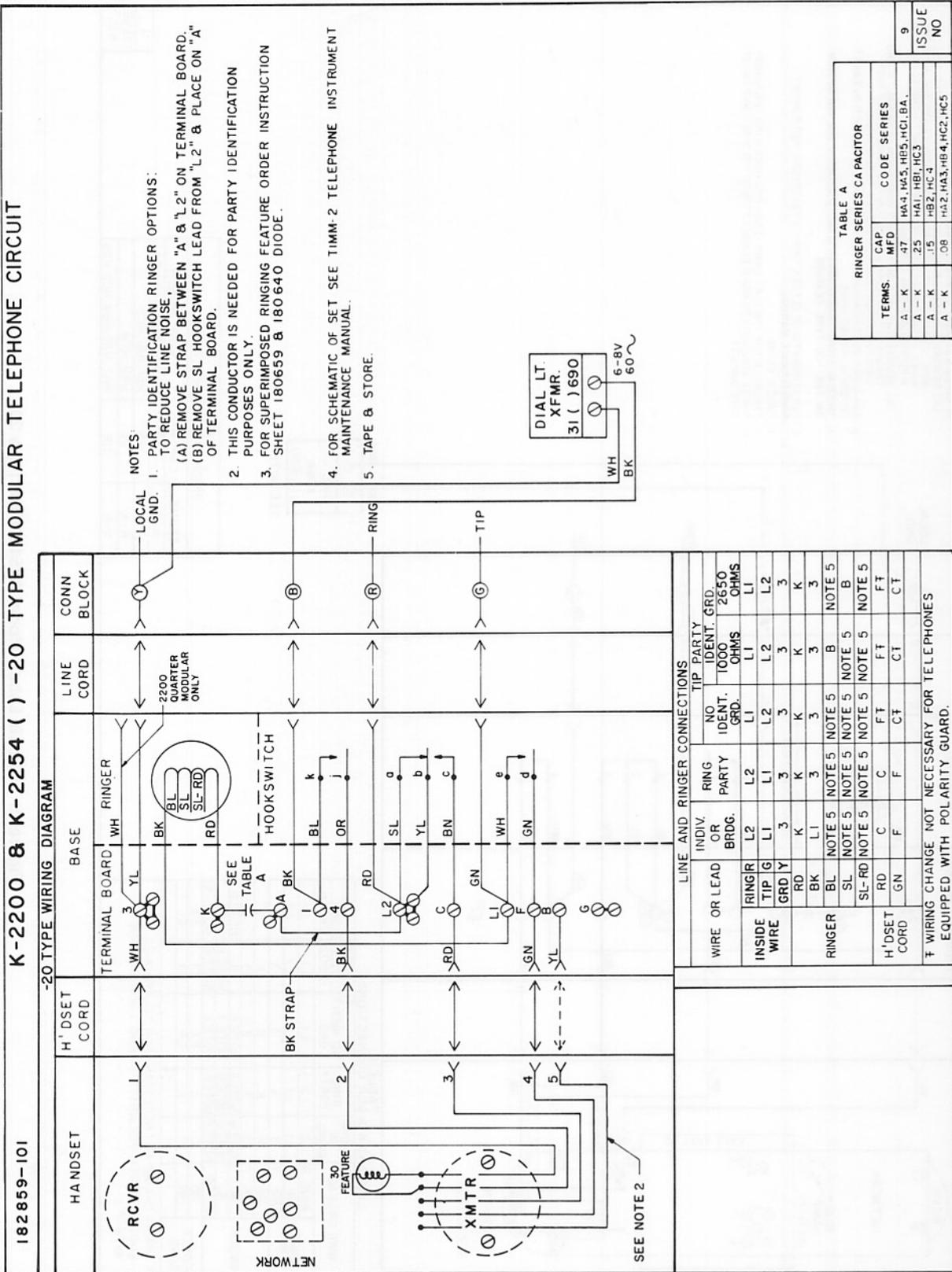


Figure 3: Circuit Label, Model 2254**QBA Type 20, 21

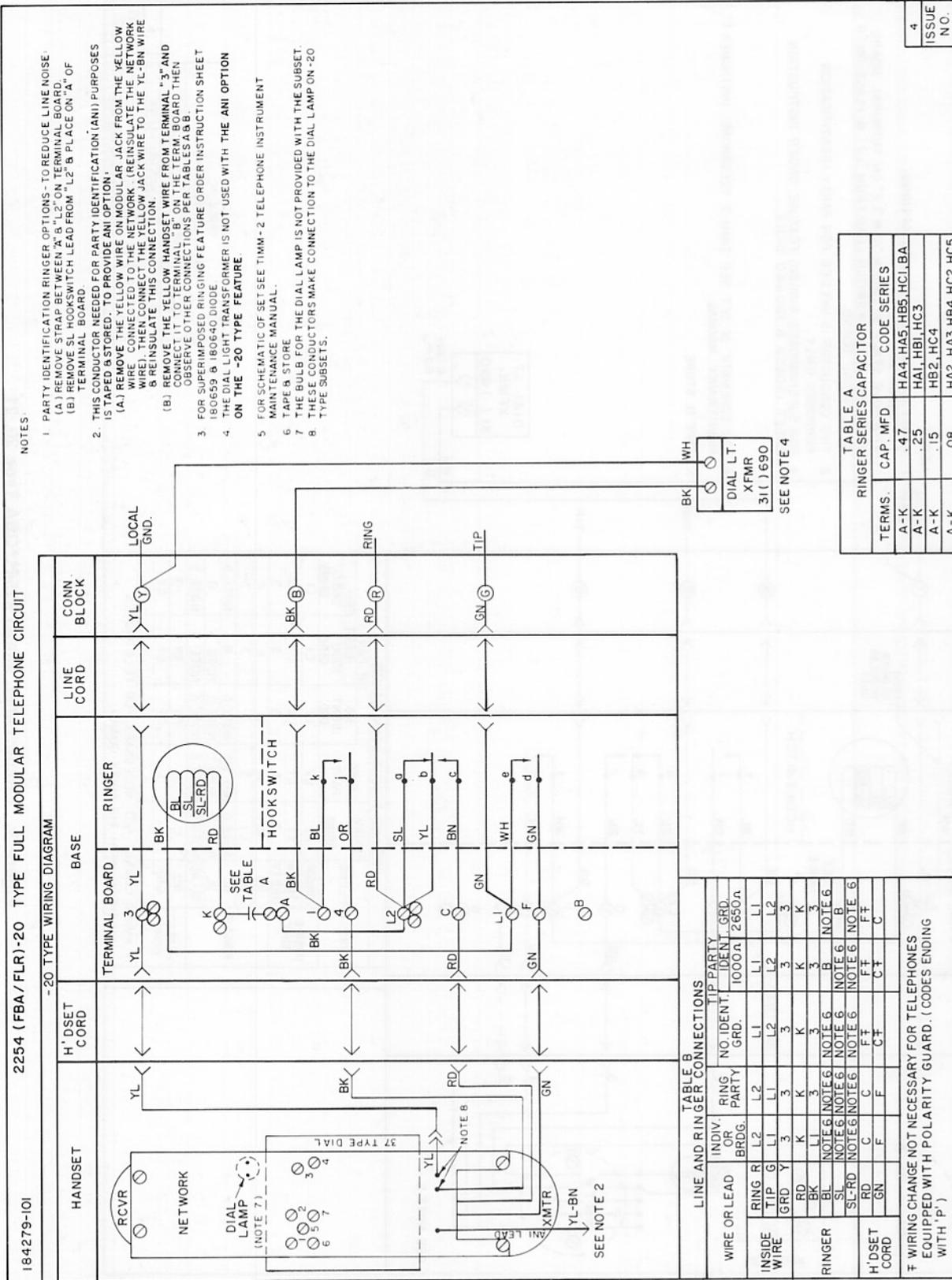


Figure 4: Circuit Label, Model 2254**FBA Type 20

TRENDLINE DIAL LIGHT, PUSHBUTTON DIAL, WALL TELEPHONES

GENERAL DESCRIPTION

CONTENTS	PAGE
1. GENERAL DESCRIPTION	1
MODEL 3254** () 21	1
2. INSTALLATION	2
3. MAINTENANCE.....	2

1. GENERAL DESCRIPTION

1.01 This document covers the Trendline dial light, pushbutton dial, wall telephones. (See Figure 1.) A general description plus information peculiar to Trendline dial light, pushbutton dial, 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 50-254-107. The circuit label appears in Section 50-254-108. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 3254 wall telephones are Trendline, pushbutton dial telephones equipped with a dial light. The dial light is on when the station user goes off-hook. These telephones are anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the telephone handset and conventional components are used in the telephone base.

1.05 The Model 3254 wall telephones are identified by a coded label affixed to the bottom of the telephone base. Refer to ordering information in Table A for an explanation of each code number.

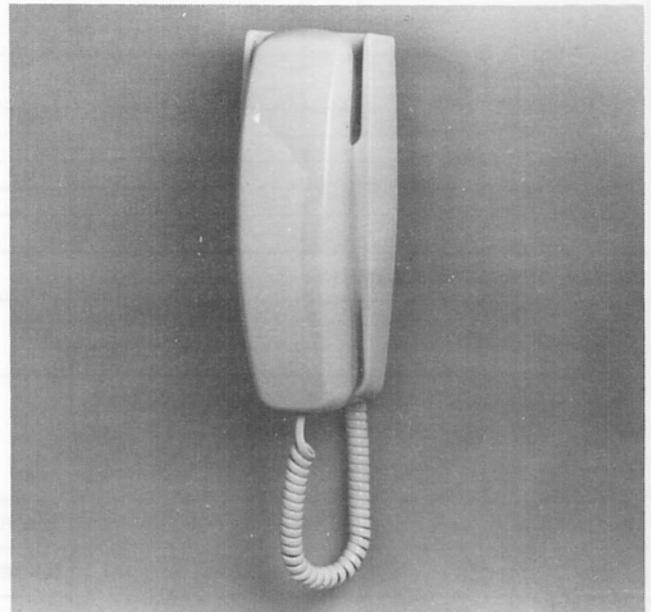


Figure 1: Trendline Dial Light, Pushbutton Dial, Wall Telephone

1.06 The Model 3254 wall telephones are available as full-modular versions. This version is designated by a code letter in the telephone code number. (Refer to Table A.)

1.07 Full-modular version wall telephones include a modular handset cord and a modular line cord. The full-modular version with a modular handset cord is designated by the code letter M.

1.08 The Model 3254 wall telephones are described in the following paragraphs. The circuit label for these telephones is contained in Section 50-254-108.

MODEL 3254** () 21

1.09 The Model 3254** () 21 is a single-line, pushbutton dial, wall telephone. It is equipped with a 9-foot handset cord. The base assembly for the Model 3254 wall telephone includes the ringer and the hookswitch assembly. The handset assembly includes the transmitter assembly, the receiver,

TABLE A
ORDERING INFORMATION - TELEPHONES

CODE NUMBERS									
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:									
(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			
3254	Trendline Dial Light, Pushbutton Dial, Wall Telephone	00, 09, 13, 15, 44, 45, And 47 (Available On All Models)	M	BA	21	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	M	Full-Modular (With Hand-set Cord)	BA	Straight-Line	21	Equipped With 9-Foot Handset Cord	M	Metropolitan (Letters & Numerals)
09	Ivory								
13	Beige								
15	White								
44	Light Ash								
45	Cocoa Brown								
47	Cherry Red								

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the dial network assembly, and the transformer printed board assembly. The components in the handset are plugged in or connected by spade-tip connectors.

1.10 The transmitter is an electret condenser microphone with a permanent electrical charge. The receiver is a central armature type compatible with hearing aids that have a T-Switch (Telecoil). The dial network assembly converts the dial keypad inputs into DTMF (Dual Tone Multi-frequency) tones and acts as the network circuitry for the transmitter and receiver. The transformer printed board assembly supplies the voltage to the dial light circuit. An operator recall button, located below the dial keypad, may be momentarily pressed to disconnect a line. This allows a series of calls to be made without operating the telephone hookswitch.

2. INSTALLATION

2.01 Installation of the full-modular versions of these telephones consists of inserting the modular plug, located on the telephone base, into an available modular wall jack.

Warning: Care must be taken when installing the housing on the base of the Model 3254 wall telephones. Hold the hookswitch plunger up, as shown in Figure 2, to avoid damaging the hookswitch.

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-254-107.



Figure 2: Installing The Housing On The Base

Warning: The electret condenser microphone used in the Model 3254 telephone handset may be damaged by cleaning solvents. Solvents that contain acids or ammonia emit fumes that may damage the internal components of the microphone. When cleaning the handset, use solvents sparingly. Apply solvents with a cloth to avoid direct contact with the microphone.

TRENDLINE DIAL LIGHT, PUSHBUTTON DIAL, WALL TELEPHONES REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the Trendline dial light, pushbutton dial, wall telephones. (See Figure 1.) An exploded-view drawing of the telephones with major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

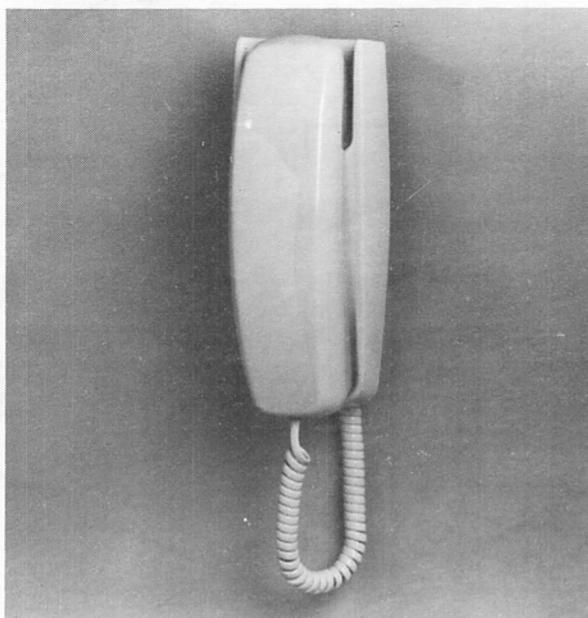
1.) An exploded-view drawing of the telephones with major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

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

1.03 For additional information on description and installation of the telephones, refer to Section 50-254-106. The circuit label appears in Section 50-254-108. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

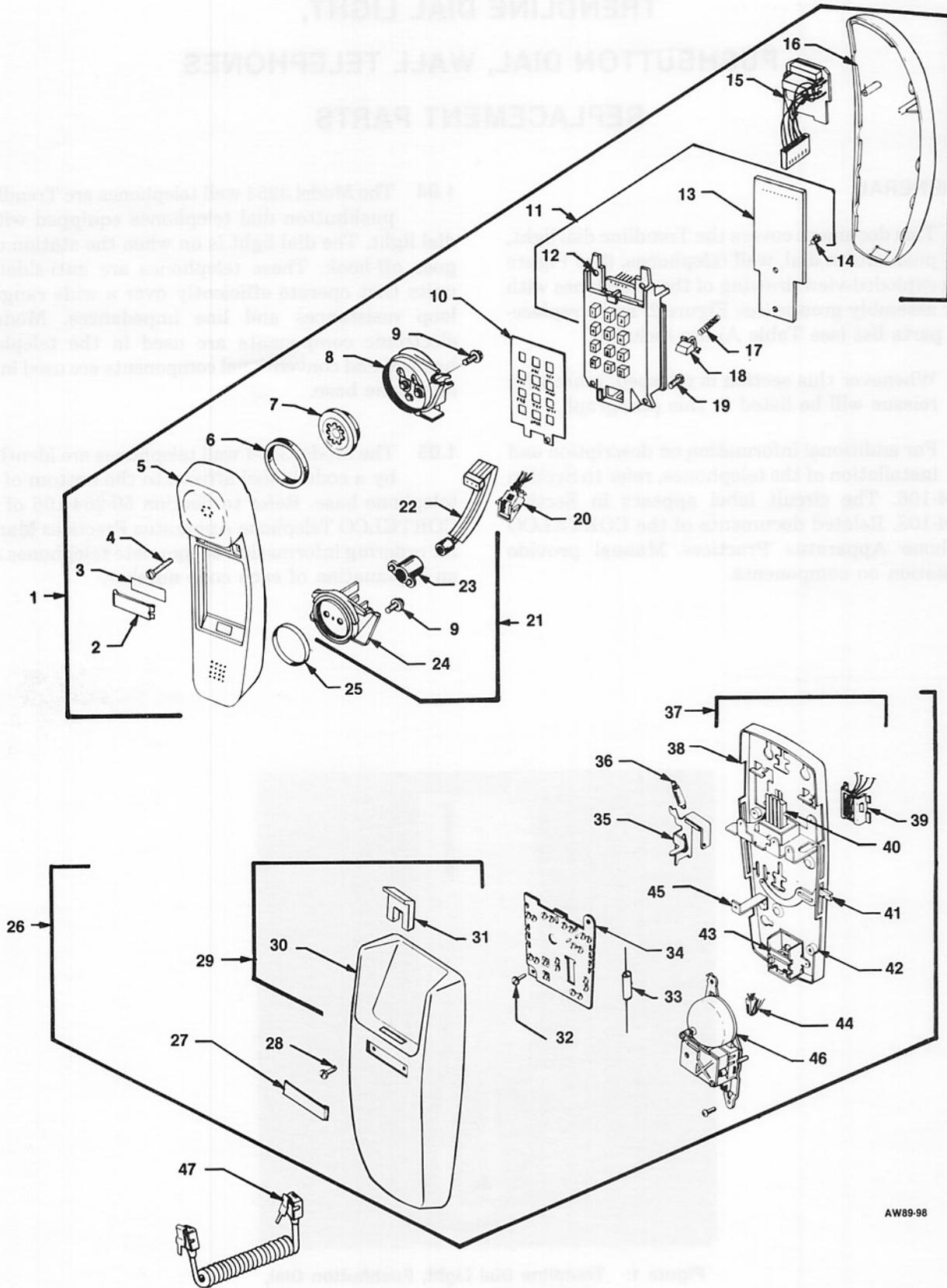
1.04 The Model 3254 wall telephones are Trendline, pushbutton dial telephones equipped with a dial light. The dial light is on when the station user goes off-hook. These telephones are anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the telephone handset and conventional components are used in the telephone base.

1.05 The Model 3254 wall telephones are identified by a coded label affixed to the bottom of the telephone base. Refer to Section 50-254-106 of the CORTELCO Telephone Apparatus Practices Manual for ordering information of complete telephones and an explanation of each code number.



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Figure 1: Trendline Dial Light, Pushbutton Dial, Wall Telephone



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Figure 2: Trendline Dial Light, Pushbutton Dial, Wall Telephone, Exploded View

TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED
		Trendline Dial Light, Pushbutton Dial, Wall Telephone	3254/21
1	2120**-20M	Handset Assembly	1
2	087514-101	Retainer, Number Card	1
3	087513-101	Card, Number	1
4	600017-204-004	Screw, Handset Housing	2
5	185435-0**	Housing, Handset	1
6	184659-101	Gasket, Receiver	1
7	187120-120	Receiver	1
8	185442-101	Receiver Cup Assembly	1
9	180245-102	Screw, Receiver Cup/Transmitter Assembly Mounting	2
10	185439-101	Faceplate	1
11	185462-107	Dial Network Assembly	1
12	185440-107	Dial Keypad Assembly	1
13	601847-536-001	PCB Assembly	1
14	086135-102	Screw, PCB Mounting	1
15	601848-536-001	Transformer Printed Board Assembly	1
16	185434-0**	Cover, Handset	1
17	185452-101	Spring, Coiled	1
18	185427-101	Button, Recall	1
19	187434-102	Screw, Dial Keypad Assembly Mounting	4
20	182947-103	Modular Jack Assembly (Handset Cord)	1
21	185449-101	Transmitter Assembly	1
22	185451-101	Microphone Assembly	1
23	185447-101	Boot, Microphone Housing	1
24	185446-101	Support, Microphone	1
25	185448-101	Gasket, Transmitter	1
26	0AC1**-FBA	Base And Housing Assembly	1
27	088554-0**	Nameplate	1
28	095992-102	Screw, Housing	2
29	088551-0**	Housing Assembly	1
30	088552-0**	Housing	1
31	088553-101	Plunger, Cradle	1
32	079485-102	Screw, Terminal Board Mounting	2
33	095995-103	Capacitor	1
34	088557-101	Terminal Board Assembly	1
35	182979-101	Arm, Lever	1
36	075307-104	Spring, Lever Arm	1
37	182942-113	Base Assembly	1
38	182872-101	Plate, Base	1
39	182948-101	Modular Plug Assembly (Line)	1
40	088777-103	Cradle Switch Assembly ¹	1
41	182866-101	Lever, Volume Control	1
42	095965-101	Fastener	2
43	088563-102	Receptacle And Bracket Assembly	1
44	182990-101	4-Pin Insulator Assembly (Handset Cord)	1
45	088550-101	Bracket	1
46	000153-ABA	Ringer, 4-Wire (With ANI) ^{1, 2}	1
46	000153-NBA	Ringer, 4-Wire (With ANI) ²	1
46	000153-SBA	Ringer, 2-Wire (Less ANI) ^{1, 3}	1
46	000153-PBA	Ringer, 2-Wire (Less ANI) ^{1, 3}	1
47	9018**-108	Cord, Handset (9-Foot)	1

Notes:

** Substitute 2-Digit Color Code When Ordering.

¹ Refer To Component Parts Section Of This Manual For Assembly Parts List.

² The 000153-NBA 4-Wire Ringer Replaces The 000153-ABA 4-Wire Ringer. The 000153-NBA Ringer Must Be Ordered Separately To Adapt The Telephone For ANI Capabilities.

³ The 000153-PBA Ringer Replaces The 000153-SBA Ringer.

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TRENDLINE DIAL LIGHT, PUSHBUTTON DIAL, WALL TELEPHONES CIRCUIT LABELS

1. GENERAL

1.01 This document covers the Trendline dial light, pushbutton dial, wall telephones. (See Figure 1.) The circuit label for the Trendline dial light, pushbutton dial, wall telephones is included. (See Table A.)

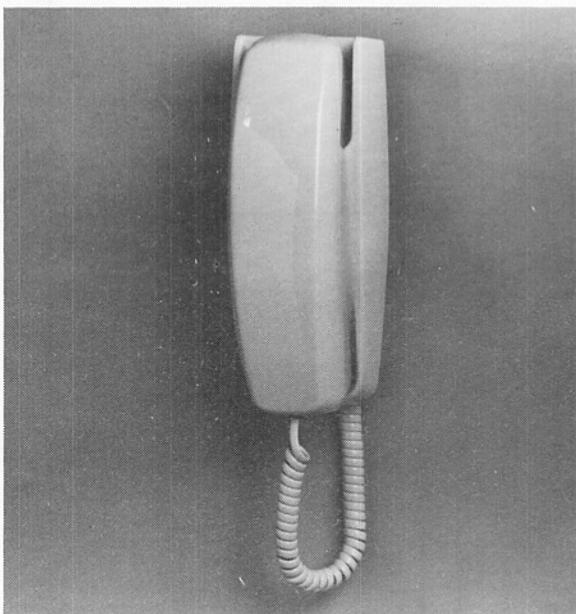


Figure 1: Trendline Dial Light, Pushbutton Dial, Wall Telephone

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

1.03 For additional information on description and installation of the telephones, refer to Section 50-254-106. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-254-107. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 3254 wall telephones are Trendline, pushbutton dial telephones equipped with a dial light. The dial light is on when the station user goes off-hook. These telephones are anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the telephone handset and conventional components are used in the telephone base.

1.05 The Model 3254 wall telephones are identified by a coded label affixed to the bottom of the telephone base. Refer to Section 50-254-106 of the CORTELCO Telephone Apparatus Practices Manual for ordering information of complete telephones and an explanation of each code number.

**TABLE A
LIST OF CIRCUIT LABELS**

MODEL NO	TYPE NO	FIGURE NO
3254** MBA	21	2

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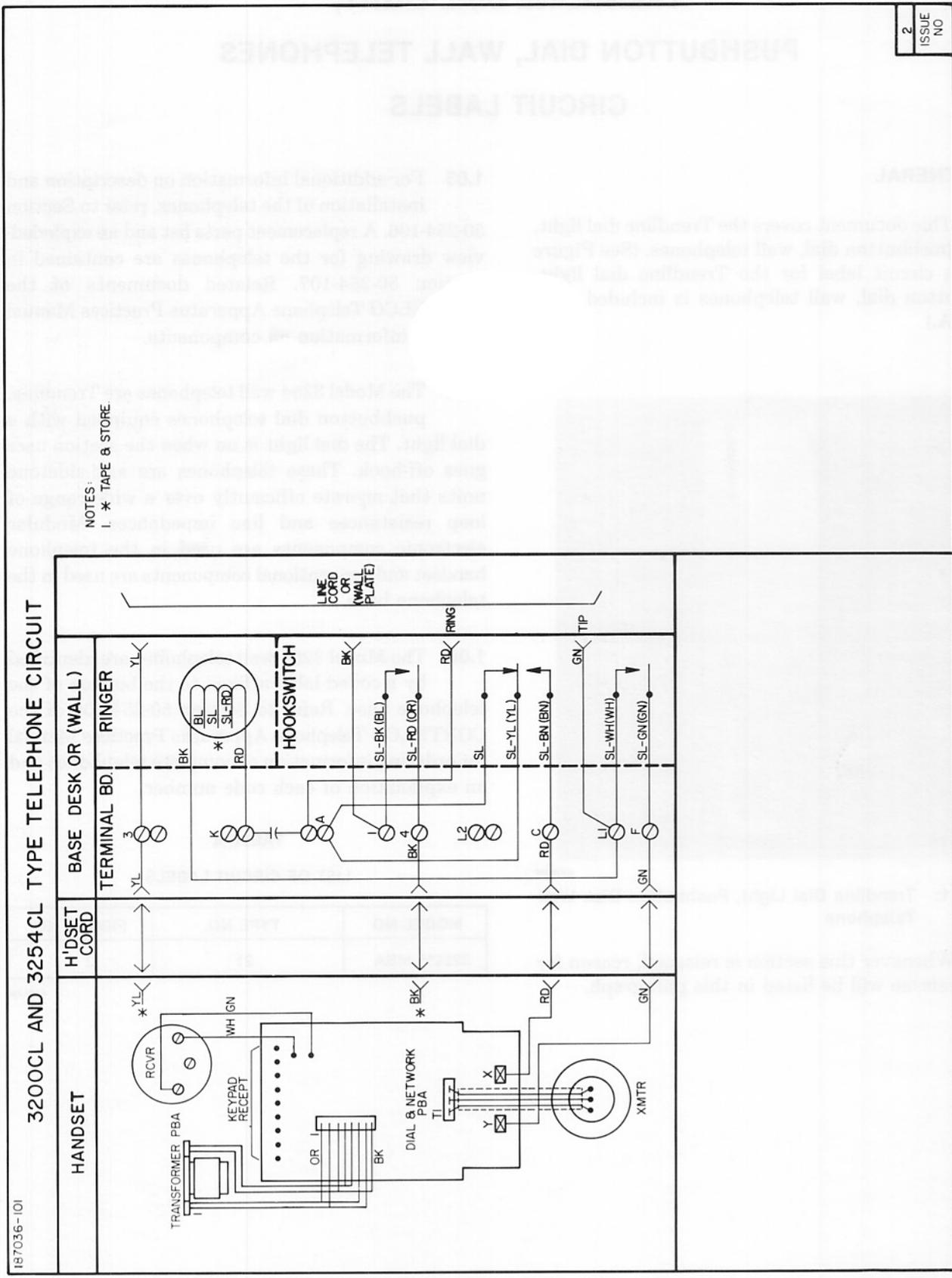


Figure 2: Circuit Label, Model 3254**MBA Type 21

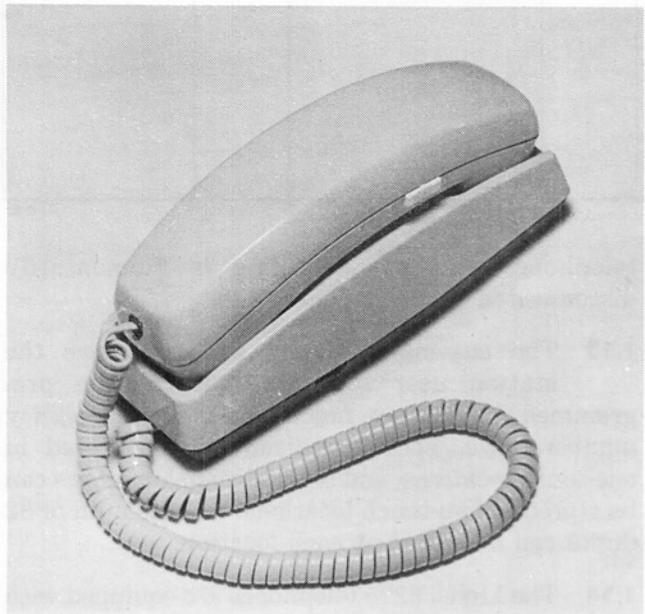
ENHANCED TRENDLINE, PUSHBUTTON DIAL, DESK/WALL TELEPHONES

GENERAL DESCRIPTION

CONTENTS	PAGE
1. GENERAL DESCRIPTION	1
MODEL 8275** () 21	1
2. INSTALLATION	3
3. MAINTENANCE	3
4. OPERATION	3
A. Automatic Dialing	3
B. Redial	4
C. Flash	4

1. GENERAL DESCRIPTION

1.01 This document covers the enhanced Trendline, pushbutton dial, desk/wall telephone. (See Figure 1.) A general description as well as information peculiar to the enhanced Trendline, pushbutton dial, desk/wall telephones is included.



AW89-224

Figure 1: Enhanced Trendline, Pushbutton Dial, Desk/Wall Telephone

1.02 Whenever this section is reissued, reason for the 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 50-275-101. Circuit labels are not provided for the telephones. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 8275 telephones are Trendline, pushbutton dial telephones equipped with a dial light. The dial light is on when the station user goes off-hook. These telephones are 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. A receiver volume control switch is located on the side of the handset.

1.05 The Model 8275 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.

1.06 The Model 8275 telephones are available in full-modular versions. Full-modular version telephones are equipped with a modular handset cord, a modular line cord for desk mounting, and a built-in modular line cord for wall mounting. The modular handset cord and the modular line cord are terminated on each end with modular plugs. The built-in line cord is terminated on one end with a modular plug and on the other end with spade tip connectors. This version is designated by the code letter M. (Refer to Table A.)

1.07 The Model 8275 telephone is described in the following paragraphs.

MODEL 8275** () 21

1.08 The Model 8275 telephone is a single-line, pushbutton dial, desk/wall telephone equipped with an operator recall button, tone/pulse switchable dialing, redial, timed hookswitch flash, and automatic dialing for three, one-touch emergency numbers and ten, two-touch numbers.

TABLE A
ORDERING INFORMATION - TELEPHONES

CODE NUMBERS													
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:													
		8275		44		M		BA		21		F	
(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			
8275	Enhanced Trendline, Pushbutton Dial, Desk/Wall Telephone	00, 13, 15, 44, 62, 63, 64, 80, 82		M		BA		21		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	M	Full-Modular (With Cords)	BA	Straight-Line	21	Standard Telephone Equipped With 9-Foot, Coiled Handset Cord	F	Tel-Flash				
13	Beige												
15	White												
44	Light Ash/Almond												
62	Mauve												
63	Dove Gray												
64	Wedgewood Blue												
80	Taupe												
82	Peach												

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1.09 An operator recall button, located below the dial keypad, may be momentarily pressed to disconnect a line. This allows a series of calls to be made without operating the telephone hookswitch.

1.10 The Tone/Pulse switch is used to change from Pulse (Tel-Pulse) to Tone (Tel-Touch) dialing. The switch can be set to TONE for tone dialing or to PULSE for pulse dialing.

1.11 The REDIAL button is used to automatically redial the last number dialed. The redial memory stores a maximum of 32 digits.

1.12 The FLASH button is used to send a timed line disconnect (interrupt) during an active call and access custom calling features provided by the

telephone company. The line is momentarily disconnected for 600 milliseconds.

1.13 The automatic dialing feature allows the station user to store and retrieve programmed numbers or functions. Three emergency numbers (fire, police, medical) can be stored in one-touch locations, and ten additional numbers can be stored in two-touch locations. A maximum of 32 digits can be stored at each location.

1.14 The Model 8275 telephones are equipped with a long-life lithium battery to protect automatic dialing numbers or functions. A directory is provided for writing the numbers stored in each location.

1.15 The base assembly for the Model 8275 telephone includes the ringer and the

hookswitch assembly. The handset assembly includes the transmitter assembly, the receiver, and the dial network assembly. The components in the handset are plugged in or connected by spade-tip connectors.

1.16 The transmitter is an electret condenser microphone with a permanent electrical charge. The receiver is a central armature type compatible with hearing aids that have a T-Switch (Telecoil). The dial network assembly converts the dial keypad inputs into DTMF (Dual Tone Multifrequency) tones and acts as the network circuitry for the transmitter and receiver.

2. INSTALLATION

2.01 The Model 8275 telephone can be installed as a desk telephone or as a wall telephone.

2.02 To install as a desk telephone:

- (a) Insert a modular plug of the long line cord into the modular jack in the bottom of the telephone base.
- (b) Insert the plug on the other end of the line cord into a standard modular telephone jack.
- (c) Route the line cord through the channel in the bottom of the telephone base (see Figure 2), and press under the two tabs at the top of the channel.

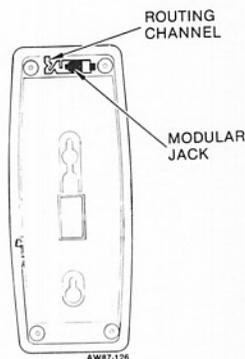


Figure 2: Line Cord Connecting Diagram - Desk Telephone

2.03 To install as a wall telephone:

- (a) Remove the modular plug of the short line cord from its storage area in the bottom of the telephone base. (See Figure 3.)

(b) Insert the modular plug into the modular jack of the wall jack assembly. Fold the excess cord into the storage area.

(c) Note the two mounting rivets on the wall jack assembly. Align the base so that the two mounting rivets are inserted into the two mounting holes in the bottom of the telephone. Slide the base downward until it snaps into position.

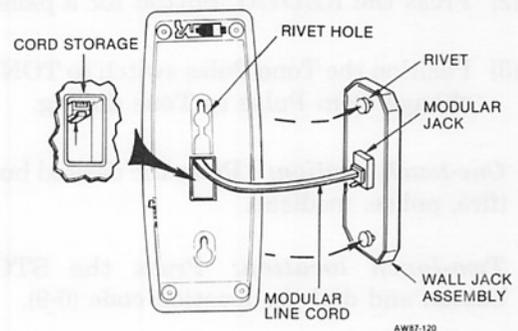


Figure 3: Installation Diagram - Wall Telephone

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-275-101.

Warning: The electret condenser microphone used in the Model 8275 telephone handset may be damaged by cleaning solvents. Solvents that contain acids or ammonia emit fumes that may damage the internal components of the microphone. When cleaning the handset, use solvents sparingly. Apply solvents with a cloth to avoid direct contact with the microphone.

4. OPERATION

A. Automatic Dialing

4.01 Automatic dialing can be performed with the Model 8275 telephone to store and retrieve programmed numbers or functions. Three one-touch and ten two-touch locations can be stored.

4.02 To store a number or function for automatic dialing:

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

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- (b) Press the STORE button.
- (c) Dial the desired number or function (32 digits maximum).
- (d) If desired, store the following functions:
 - (1) Press the FLASH button for a timed hookswitch flash.
 - (2) Press the REDIAL button for a pause.
 - (3) Position the Tone/Pulse switch to TONE to change from Pulse to Tone dialing.
- (e) **One-touch location:** Press the desired button (fire, police, medical).
Two-touch location: Press the STORE button and dial the location code (0-9).
- (f) Place the handset on-hook.

4.03 To access a number for automatic dialing:

- (a) Lift the handset and check for dial tone.
- (b) **One-touch location:** Press the desired button (fire, police, medical).

Two-touch location: Press the MEM button and dial the location code (0-9).

B. Redial

4.04 To automatically redial the last number dialed:

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

C. Flash

4.05 To send a flash during an active call, press and release the FLASH button. The results depend on the connected telephone service.

ENHANCED TRENDLINE, PUSHBUTTON DIAL, DESK/WALL TELEPHONES REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the enhanced Trendline, pushbutton dial, desk/wall telephones. (See Figure 1.) An exploded-view drawing of the telephone with the major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

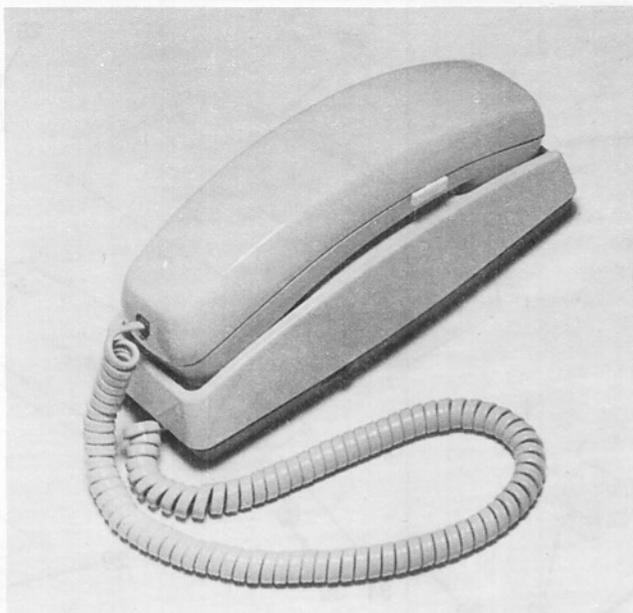
1.02 Whenever this section is reissued, reason for reissue will be listed in this paragraph.

1.03 For additional information on description and installation of the telephones, refer to Section 50-275-100. Circuit labels are not provided for the

telephones. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

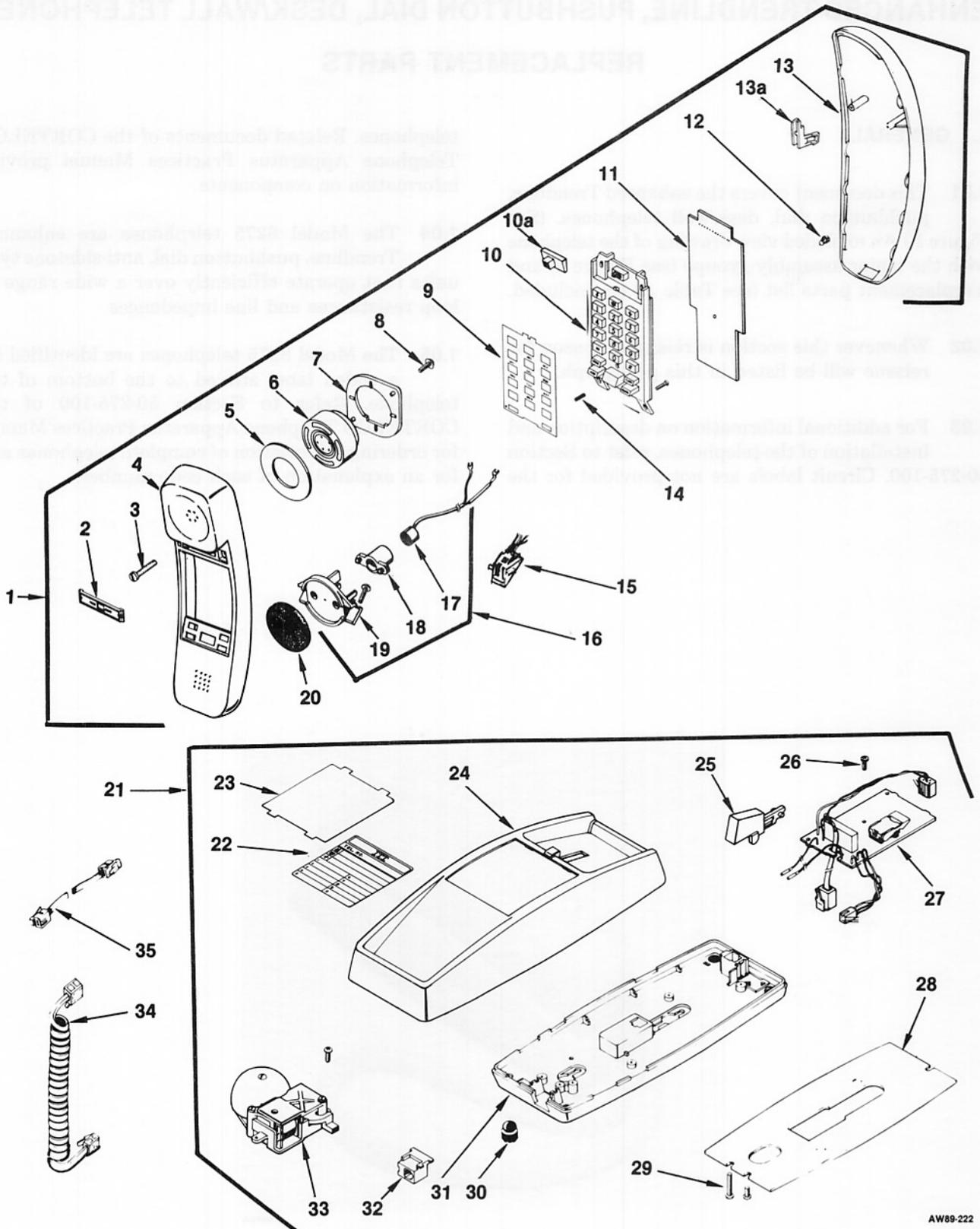
1.04 The Model 8275 telephones are enhanced Trendline, pushbutton dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 8275 telephones are identified by a coded label affixed to the bottom of the telephone. Refer to Section 50-275-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information of complete telephones and for an explanation of each code number.



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Figure 1: Enhanced Trendline, Pushbutton Dial, Desk/Wall Telephone



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Figure 2: Enhanced Trendline, Pushbutton Dial, Desk/Wall Telephone, Exploded View

TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED
		Enhanced Trendline, Pushbutton Dial, Desk/Wall Telephone	8275/21F
1	187545-0**	Handset Assembly	1
2	187524-0**	Cover, Tone-Pulse Actuator	1
3	187434-104	Screw, Housing	2
4	187536-0**	Handset Base	1
5	187529-101	Gasket	1
6	187517-101	Receiver	1
7	187518-101	Clamp, Receiver	1
8	187434-102	Screw, Assembly	6
9	187522-101	Faceplate	1
10	187549-101	Dial Assembly	1
10a	187523-101	Actuator, Tone-Pulse	1
11	187530-101	Network PCB	1
12	184758-104	Screw, PCB Mounting	1
13	187499-0**	Handset Cover	1
13a	187526-101	Actuator, Volume Control	1
14	187053-101	Spring, Coiled	1
15	182947-104	Modular Jack Assembly (Handset Cord)	1
16	185449-103	Transmitter Assembly	1
17	187651-102	Microphone Assembly	1
18	187525-101	Boot, Microphone	1
19	185446-101	Support, Transmitter	1
20	187555-101	Gasket, Foam	1
21	187515-2**	Base Assembly	1
22	187505-102	Card, Directory	1
23	187504-101	Cover, Directory Card	1
24	187502-0**	Housing	1
25	187503-101	Plunger	1
26	600017-204-002	Screw, Assembly	4
27	187550-104	PCB Assembly, Base	1
28	187501-101	Plate, Base	1
29	600017-204-006	Screw, Base Cover Mounting	2
30	184403-101	Foot	4
31	187500-101	Base	1
32	182988-101	Modular Jack	1
33	000150-PBA	Ringer	1
34	9018**-108	Cord, Coiled	1
35	600989-540-084	Cord, Line	1

AW89-223

TRENDLINE II

PUSHBUTTON DIAL, DESK TELEPHONES

GENERAL DESCRIPTION

CONTENTS	PAGE
1. GENERAL DESCRIPTION	1
MODEL 2300** () 20	2
MODEL 2300** () 22	3
2. INSTALLATION	3
3. MAINTENANCE	3

1. GENERAL DESCRIPTION

1.01 This document covers the Trendline II, pushbutton dial, desk telephones. (See Figure 1.) A general description plus information peculiar to the Trendline II, pushbutton dial, desk telephones is included.

1.02 This section is reissued to delete the ordering information for the manufacturing discontinued versions of the Trendline II, pushbutton dial, desk 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 50-300-101. The circuit labels appear in Section 50-300-102. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 2300 desk telephones are Trendline II, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the handset of the Trendline II telephone, and conventional components are used in the telephone base.



AW86-375

Figure 1: Trendline II, Pushbutton Dial, Desk Telephone

1.05 The Model 2300 desk telephones are identified by a coded label affixed to the bottom of the base. Refer to ordering information in Table A for an explanation of each code number.

1.06 Trendline II telephones are nonmodular or full-modular versions. These versions are designated by a code letter in the telephone code number. (Refer to Table A.)

1.07 Nonmodular version telephones (no longer available) include a modular handset cord and a line cord. The line cord, terminated on one end with a modular plug, is inserted into the modular jack in the telephone base. The other end of the line cord, terminated with spade-tip connectors, is hard-wired to a nonmodular wall jack. This version is designated by the code letter O.

1.08 Full-modular version telephones are available with or without a modular handset cord and a modular line cord. However, all full-modular telephones are equipped with jacks to accept the plugs of a modular handset cord and a modular line

TABLE A
ORDERING INFORMATION - TELEPHONES

CODE NUMBERS															
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:															
				2300		44		M		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					
2300	Trendline II, Pushbutton Dial, Desk Telephone	00, 09, 13, 15, 44, 45, And 47 (Available On All Models)		M		BA		20, 22		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	M	Full-Modular (With Cords)	BA	Straight-Line	20	No Special Feature 20 With Dial Light And Volume Control/Dial Light ON-OFF Switch	M	Metropolitan (Letters & Numerals)						
09	Ivory					22									
13	Beige														
15	White														
44	Light Ash														
45	Cocoa Brown														
47	Cherry Red														

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cord. The full-modular version of the telephone without a modular handset cord and a modular line cord is designated by the code letter F (no longer available). The full-modular version of the telephone with a modular handset cord and a modular line cord, terminated on each end with modular plugs, is designated by the code letter M.

1.09 The Model 2300 desk telephones are described in the following paragraphs. The circuit label for these telephones is contained in Section 50-300-102.

MODEL 2300 () 20**

1.10 The Model 2300** () 20 is a single-line, Trendline II, pushbutton dial, desk telephone. It provides no special features and utilizes a

4-conductor line cord. The base assembly for the Trendline II includes the ringer and hookswitch assemblies. The base is connected to the handset assembly by a modular handset cord. The handset assembly includes the transmitter assembly, the receiver, a dial keypad assembly, and a dial network assembly. The components contained in the handset are plugged in or connected by spade-tip connectors.

1.11 The transmitter is an electret condenser microphone with a permanent electrical charge. The receiver is a central armature type compatible with hearing aids that have a T-switch (Telecoil). The dial network assembly converts the dial keypad inputs into DTMF (Dual Tone Multifrequency) tones, and acts as network circuitry

for the transmitter/receiver assemblies. An operator recall button, located below the dial, may be momentarily pressed to disconnect a line. This allows a series of calls to be made without operating the hookswitch.

MODEL 2300** () 22

1.12 The Model 2300** () 22 deluxe model is the same as the Model 2300** () 20 except for the addition of LEDs that light the dial keypad, and a switch that controls both the receiver volume and the dial keypad light. The switch is located on the rear of the handset. (See Figure 2.) The arrow on the volume control thumbwheel indicates the direction to turn it to increase the volume of the receiver. This control will not completely silence the receiver. The dial keypad light ON-OFF switch is located beneath the receiver volume control thumbwheel, and it is operated by pressing and holding the thumbwheel to illuminate the dial keypad.

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 50-300-101.

Warning: *The electret condenser microphone used in the Trendline II handset may be damaged by cleaning solvents. Solvents that contain acids or ammonia emit fumes that may damage the internal components of the microphone. When cleaning the handset, use solvents sparingly. Apply solvents with a cloth to avoid direct contact with the microphone.*

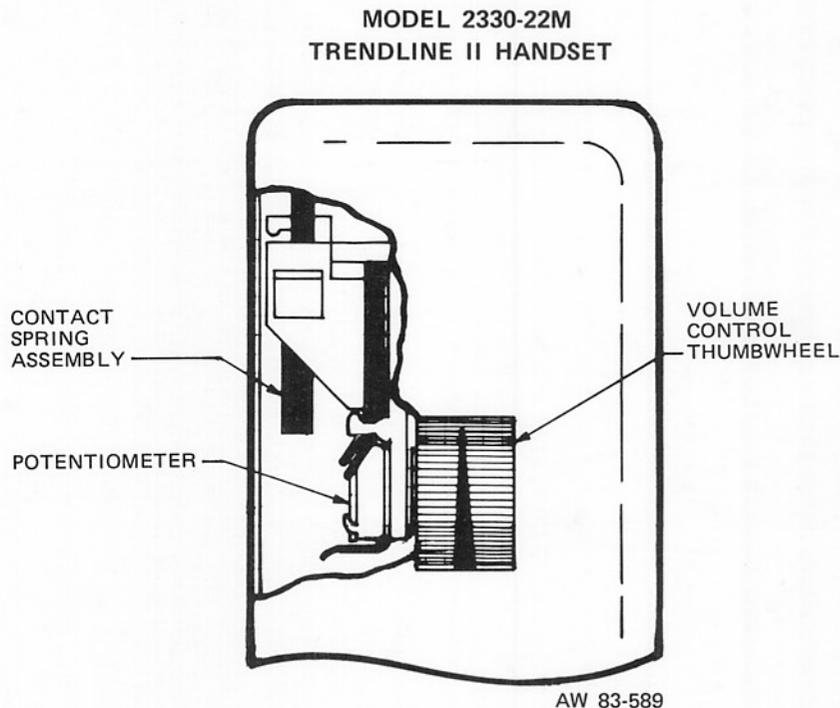


Figure 2: Receiver Volume Control/Dial Light ON-OFF Switch

TRENDLINE II

PUSHBUTTON DIAL, DESK TELEPHONES

REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the Trendline II, pushbutton dial, desk telephone. (See Figure 1.) An exploded-view drawing of the telephone with major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

1.02 This section is reissued to update information available for the Trendline II desk telephone.

1.03 For additional information on description and installation of the telephones, refer to Section 50-300-100. The circuit label appears in 50-300-102. Related documents of the CORTELCO Telephone

Apparatus Practices Manual provide information on components.

1.04 The Model 2300 desk telephones are Trendline II, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the handset of the Trendline II telephone, and conventional components are used in the telephone base.

1.05 The Model 2300 desk telephones are identified by a coded label affixed to the bottom of the base. Refer to Section 50-300-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information and an explanation of each code number.



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Figure 1: Trendline II, Pushbutton Dial, Desk Telephone

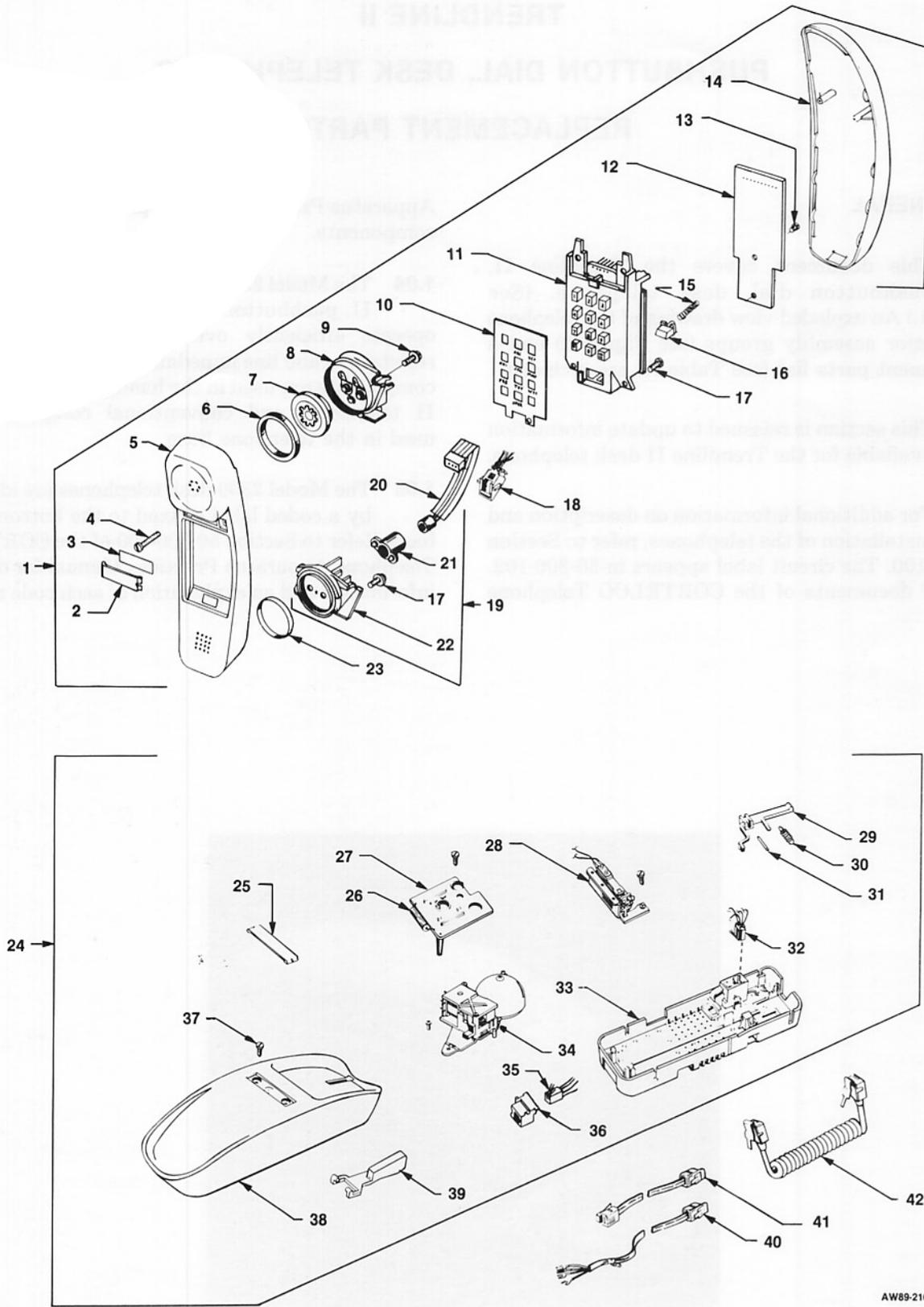


Figure 2: Trendline II, Pushbutton Dial, Desk Telephone, Exploded View

TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED	
			2300/20	2300/22
		Trendline II, Pushbutton Dial, Desk Telephone		
1	2330**-20M	Handset Assembly	1	—
1	2330**-22M	Handset Assembly, Deluxe Model	—	1
2	087514-101	Retainer, Number Card	1	1
3	087513-101	Card, Number	1	1
4	600017-204-004	Screw, Handset Housing	2	2
5	185435-0**	Housing, Handset	1	1
6	184659-101	Gasket, Receiver	1	1
7	187312-101	Receiver	1	1
8	185442-101	Cup Assembly, Receiver	1	1
9	180245-102	Screw, Mounting, Receiver Cup And Transmitter Support	2	2
10	185439-101	Faceplate	1	1
11	185440-101	Dial Keypad Assembly	1	—
11	185440-102	Dial Keypad Assembly	—	1
12	185601-101	P. C. Board Assembly, Tel-Touch Dial/Network	1	—
12	185601-102	P. C. Board Assembly, Tel-Touch Dial/Network	—	1
13	086135-102	Screw, Mounting, P. C. Board Assembly	1	1
14	185434-0**	Cover, Handset	1	—
14	185436-0**	Cover, Handset, Deluxe Model	—	1
15	185452-101	Spring, Coiled	1	1
16	185427-101	Button, Recall	1	1
17	187434-102	Screw, Mounting, Dial Keypad And Transmitter Assemblies	4	4
18	182947-103	Modular Jack Assembly	1	1
19	185449-101	Transmitter Assembly	1	1
20	185451-101	Microphone Assembly	1	1
21	185447-101	Boot, Microphone Housing	1	1
22	185446-101	Support, Transmitter	1	1
23	185448-101	Gasket, Transmitter	1	1
	185444-101	Volume Control/Dial Light Switch Assembly (Not Shown)	—	1
	600012-627	Thumbwheel	—	1
	185412-101	Potentiometer	—	1
	185445-101	Support, Volume Control	—	1
	185429-101	Spring Assembly	—	1
	185430-101	Spring Assembly	—	1
24	OAG1**-OBA	Base And Housing Assembly (Conventional)	1	1
24	OAG1**-OLR	Base And Housing Assembly (Conventional, Less Ringer)	1	1
24	OAG1**-FBA	Base And Housing Assembly (Full-Modular)	1	1
24	OAG1**-FLR	Base And Housing Assembly (Full-Modular, Less Ringer)	1	1
24	OAG1**-MBA	Base And Housing Assembly (Full-Modular, With Cord)	1	1
24	OAG1**-MLR	Base And Housing Assembly (Full-Modular, With Cord, Less Ringer)	1	1
25	088554-0**	Nameplate	1	1
26	095995-103	Capacitor	1	1
27	184518-101	Terminal Board Assembly	1	1
	180221-106	Screw, Mounting	1	1
28	184550-102	Cradle Switch Assembly	1	1
	096407-102	Screw, Mounting	1	1
29	184514-101	Lever Arm	1	1
30	187962-101	Spring, Lever Arm	1	1
31	184519-101	Pin, Pivot	1	1
32	184406-101	Insulator Assembly	1	1

TABLE A
REPLACEMENT PARTS LIST (Cont)

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED	
			2300/20	2300/22
Trendline II, Pushbutton Dial, Desk Telephone				
33	184566-101	Base Assembly	1	1
		Plastic Base ²	1	1
	184655-101	Threaded Insert (Not Shown)	1	1
34	000153-ABA	Ringer ^{1, 3}	1	1
34	000153-PBA	Ringer ^{1, 3}	1	1
	079485-102	Screw, Ringer Mounting	1	1
35	182990-101	4-Pin Insulator Assembly	1	1
36	182988-101	Modular Jack Assembly	1	1
37	095992-102	Screw, Base Housing	2	2
	184549-101	Foot, Stick-On (Not Shown)	4	4
38	184249-0**	Housing, Base	1	1
39	088773-102	Plunger	1	1
40	185684-084	Cord, Line (Conventional)	1	1
41	182827-084	Cord, Line (Full-Modular)	1	1
42	9018**-072	Cord, Coiled	1	1

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Notes:

- ** Substitute 2-Digit Color Code When Ordering.
- ¹ Refer To Component Parts Section Of This Manual For Assembly Parts List.
- ² NSS Item (Not Serviced Separately).
- ³ The 000153-PBA Ringer Replaces The 000153-ABA Ringer.

TRENDLINE II PUSHBUTTON DIAL, DESK TELEPHONES CIRCUIT LABELS

1. GENERAL

1.01 This document covers the Trendline II, pushbutton dial, desk telephones. (See Figure 1.) The circuit label for the Trendline II, pushbutton dial, desk telephones is included. (See Table A.)



Figure 1: Trendline II, Pushbutton Dial, Desk Telephone

1.02 This section is reissued to conform to the CORTELCO Practices format. Issue 2 provided the latest issue circuit label for the Trendline II, pushbutton dial, desk telephones.

1.03 For additional information on description and installation of the telephones, refer to Section 50-300-100. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-300-101. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

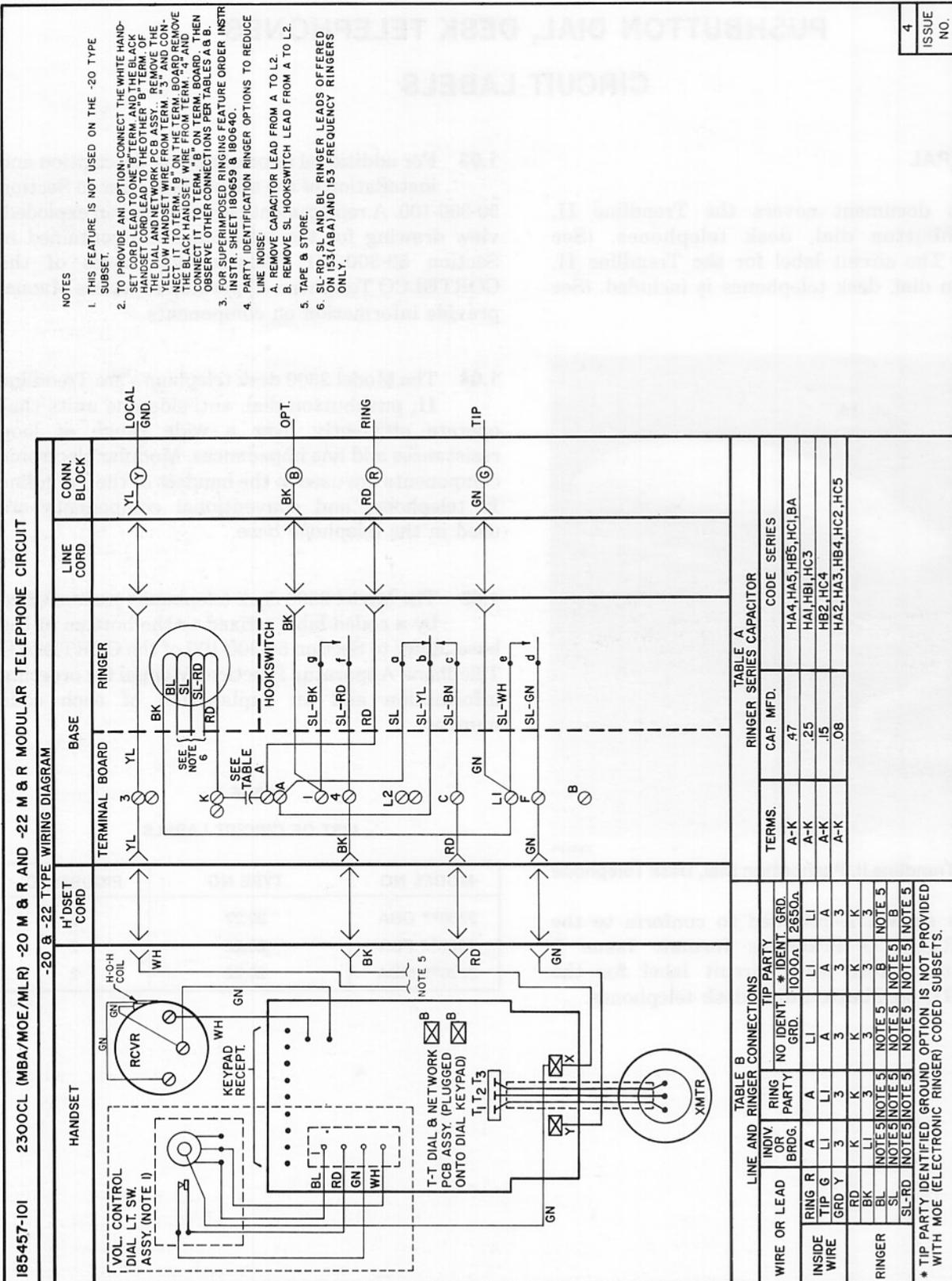
1.04 The Model 2300 desk telephones are Trendline II, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the handset of the Trendline II telephone, and conventional components are used in the telephone base.

1.05 The Model 2300 desk telephones are identified by a coded label affixed to the bottom of the base. Refer to Section 50-300-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information and an explanation of each code number.

TABLE A
LIST OF CIRCUIT LABELS

MODEL NO	TYPE NO	FIGURE NO
2300** OBA	20,22	2
2300** FBA	20,22	2
2300** MBA	20,22	2

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ISSUE NO. 4

TABLE A

RINGER SERIES CAPACITOR	
TERMS.	CAP. MFD.
A-K	.47
A-K	.25
A-K	.15
A-K	.08

TABLE B

LINE AND RINGER CONNECTIONS		TIP PARTY	
WIRE OR LEAD	INDIV OR BRDG.	* IDENT. GRD.	GRD.
INSIDE TIP G	A	LI	A
INSIDE RING R	A	LI	A
INSIDE RING Y	3	3	3
RINGER RD	K	K	K
RINGER BK	K	K	K
RINGER BL	LI	LI	LI
RINGER SL	NOTE 5	NOTE 5	NOTE 5
RINGER GN	NOTE 5	NOTE 5	NOTE 5

* TIP PARTY IDENTIFIED GROUND OPTION IS NOT PROVIDED WITH MOE (ELECTRONIC RINGER) CODED SUBSETS.

Figure 2: Circuit Label, Model 2300** OBA Types 20, 22; Model 2300** FBA Types 20, 22; Model 2300** MBA Types 20, 22

TRENDLINE II

PUSHBUTTON DIAL, WALL TELEPHONES

GENERAL DESCRIPTION

CONTENTS	PAGE
1. GENERAL DESCRIPTION	1
MODEL 2354** () 20	2
MODEL 2354** () 21	3
MODEL 2354** () 22	3
MODEL 2354** () 23	3
2. INSTALLATION	3
3. MAINTENANCE	3

1. GENERAL DESCRIPTION

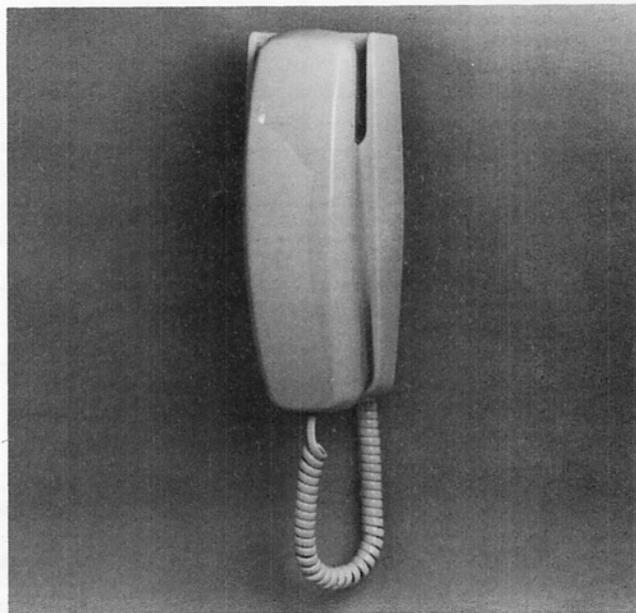
1.01 This document covers the Trendline II, pushbutton dial, wall telephones. (See Figure 1.) A general description plus information peculiar to Trendline II, pushbutton dial, wall telephones is included.

1.02 This section is reissued to remove the ordering information for the Less Ringer telephones and other manufacturing discontinued items of the Trendline II, pushbutton dial, wall 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 50-354-101. The circuit label appears in Section 50-354-102. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 2354 wall telephones are Trendline II, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop



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Figure 1: Trendline II, Pushbutton Dial, Wall Telephone

resistances and line impedances. Modular electronic components are used in the handset of the Trendline II telephone, and conventional components are used in the telephone base.

1.05 The Model 2354 wall telephones are identified by a coded label affixed to the bottom of the base. Refer to ordering information in Table A for an explanation of each code number.

1.06 Trendline II wall telephones are nonmodular, quarter-modular, or full-modular versions. These versions are designated by a code letter in the telephone code number. (Refer to Table A.)

1.07 Nonmodular version telephones (no longer available) include a modular 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.

TABLE A
ORDERING INFORMATION - TELEPHONES

CODE NUMBERS									
TELEPHONE CODE NUMBERS ARE FORMED IN SIX STEPS AS FOLLOWS:									
(1) Type of Instrument (See Part 1)	2354		44	M	BA	20	M		
(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			
2354	Trendline II, Pushbutton Dial, Wall Telephone	00, 09, 13, 15, 44, 45, And 47 (Available On All Models)	M	BA	20, 21, 22, 23	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	M	Full-Modular (With Cords)	BA	Straight-Line	20	No Special Feature	M	Metropolitan (Letters & Numerals)
09	Ivory					21	20 With 9-Foot Handset Cord		
13	Beige					22	20 With Dial Light		
15	White						And Volume Control/Dial Light ON-OFF Switch		
44	Light Ash					23	22 With 9-Foot Handset Cord		
45	Cocoa Brown								
47	Cherry Red								

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1.08 Quarter-modular version telephones (no longer available) include a modular handset cord and a modular plug as part of the base assembly. 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 wall 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 it into a wall jack. The full-modular version without a modular handset cord is designated by the code letter F (no longer available). 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.

1.10 Differences in the various features available with Model 2354 wall telephones are described in the following paragraphs. The circuit label drawing for these telephones is included in Section 50-354-102.

MODEL 2354 () 20**

1.11 The Model 2354** () 20 is a single-line, Trendline II, pushbutton dial, wall telephone. It provides no special features and utilizes a 4-conductor line cord. The base assembly for the Trendline II includes the ringer and hookswitch assemblies. The base is connected to the handset assembly by a modular handset cord. The handset assembly includes the transmitter assembly, the receiver, a dial keypad assembly, and a dial network

assembly. The components contained in the handset are plugged in or connected by spade-tip connectors.

1.12 The transmitter is an electret condenser microphone with a permanent electrical charge. The receiver is a central armature type compatible with hearing aids that have a T-switch (Telecoil). The dial network assembly converts the dial keypad inputs into DTMF (Dual Tone Multifrequency) tones, and acts as network circuitry for the transmitter/receiver assemblies. An operator recall button, located below the dial, may be momentarily pressed to disconnect a line. This allows a series of calls to be made without operating the hookswitch.

MODEL 2354** () 21

1.13 The Model 2354** () 21 is identical to the Model 2354** () 20 except it is equipped with a nine-foot handset cord.

MODEL 2354** () 22

1.14 The Model 2354** () 22 deluxe model is identical to the Model 2354** () 20 except for the addition of LEDs that light the dial keypad, and a switch that controls both the receiver volume and the dial keypad light. The switch is located on the rear of the handset. (See Figure 2.) The arrow on the volume control thumbwheel indicates the direction to turn it to increase the volume of the receiver. This control will not completely silence the receiver. The dial keypad light ON-OFF switch is located beneath the receiver volume control thumbwheel, and it is operated by pressing and holding the thumbwheel to illuminate the dial keypad.

MODEL 2354** () 23

1.15 The Model 2354** () 23 is identical to the Model 2354** () 22 except it is equipped with a nine-foot handset cord.

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.

Warning: Care must be taken when installing the housing to the base on Model 2354 wall telephones. Hold the hookswitch plunger up, as

shown in Figure 3, to avoid damaging the hookswitch.

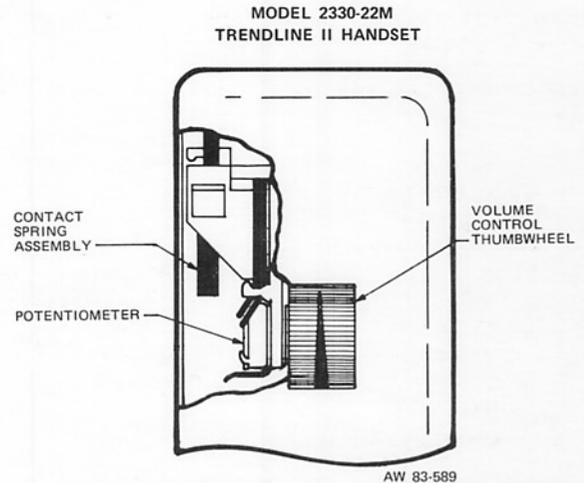


Figure 2: Receiver Volume Control/Dial Light ON-OFF Switch

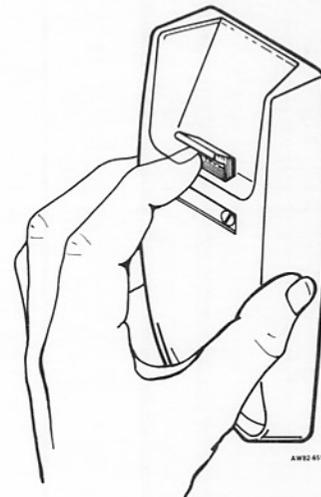


Figure 3: Installing The Housing On The Base

3. MAINTENANCE

3.01 For replacement parts information and for an exploded-view drawing of major assembly groups, refer to Section 50-354-101.

Warning: The electret condenser microphone used in the Trendline II handset may be damaged by cleaning solvents. Solvents that contain acids or ammonia emit fumes that may damage the internal components of the microphone. When cleaning the handset, use solvents sparingly. Apply solvents with a cloth to avoid direct contact with the microphone.

TRENDLINE II

PUSHBUTTON DIAL, WALL TELEPHONES

REPLACEMENT PARTS

1. GENERAL

1.01 This document covers the Trendline II, pushbutton dial, wall telephones. (See Figure 1.) An exploded-view drawing of the telephone with major assembly groups (see Figure 2) and a replacement parts list (see Table A) are included.

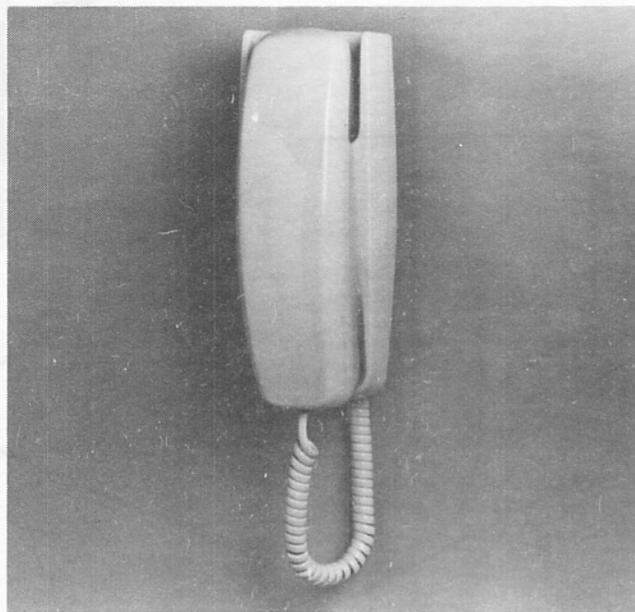
1.02 This section is reissued to update information available for the Trendline II wall telephones.

1.03 For additional information on description and installation of the telephones, refer to Section 50-354-100. The circuit label appears in 50-354-102. Related documents of the CORTELCO Telephone

Apparatus Practices Manual provide information on components.

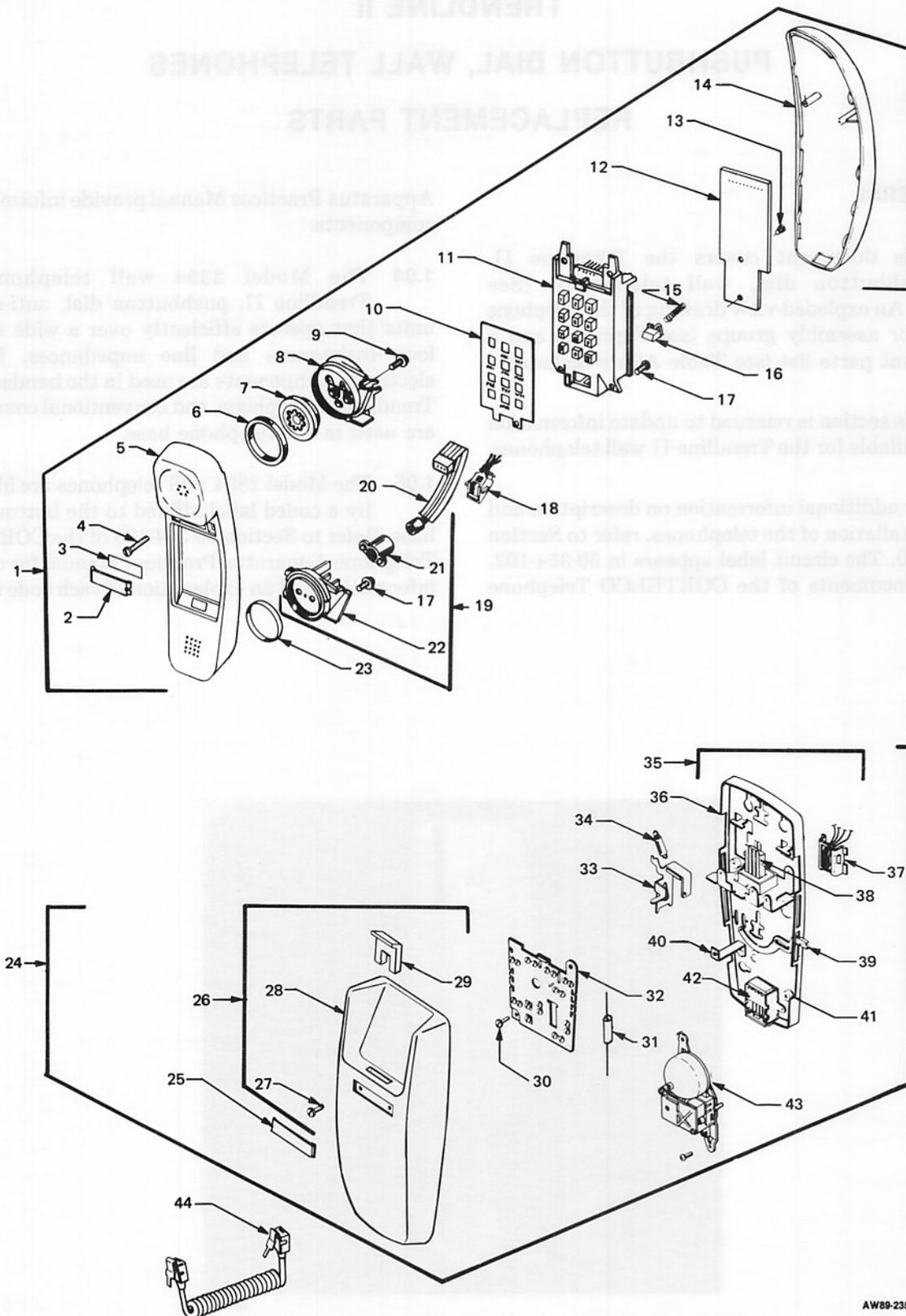
1.04 The Model 2354 wall telephones are Trendline II, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the handset of the Trendline II telephone, and conventional components are used in the telephone base.

1.05 The Model 2354 wall telephones are identified by a coded label affixed to the bottom of the base. Refer to Section 50-354-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information and an explanation of each code number.



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Figure 1: Trendline II, Pushbutton Dial, Wall Telephone



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Figure 2: Trendline II, Pushbutton Dial, Wall Telephone, Exploded View

TABLE A
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED			
			2354/20	2354/21	2354/22	2354/23
		Trendline II, Pushbutton Dial, Wall Telephone				
1	2330**-20M	Handset Assembly	1	1	—	—
1	2330**-22M	Handset Assembly, Deluxe Model	—	—	1	1
2	087514-101	Retainer, Number Card	1	1	1	1
3	087513-101	Card, Number	1	1	1	1
4	600017-204-004	Screw, Handset Housing	2	2	2	2
5	185435-0**	Housing, Handset	1	1	1	1
6	184659-101	Gasket, Receiver	1	1	1	1
7	187312-101	Receiver	1	1	1	1
8	185442-101	Cup Assembly, Receiver	1	1	1	1
9	180245-102	Screw, Mounting, Receiver Cup And Transmitter Support	2	2	2	2
10	185439-101	Faceplate	1	1	1	1
11	185440-101	Dial Keypad Assembly	1	1	—	—
11	185440-102	Dial Keypad Assembly	—	—	1	1
12	185601-101	P. C. Board Assembly, Tel-Touch Dial/Network	1	1	—	—
12	185601-102	P. C. Board Assembly, Tel-Touch Dial/Network	—	—	1	1
13	086135-102	Screw, Mounting, P. C. Board Assembly	1	1	1	1
14	185434-0**	Cover, Handset	1	1	—	—
14	185436-0**	Cover, Handset, Deluxe Model	—	—	1	1
15	185452-101	Spring, Coiled	1	1	1	1
16	185427-101	Button, Recall	1	1	1	1
17	187434-102	Screw, Mounting, Dial Keypad And Transmitter Assemblies	4	4	4	4
18	182947-103	Modular Jack Assembly	1	1	1	1
19	185449-101	Transmitter Assembly	1	1	1	1
20	185451-101	Microphone Assembly	1	1	1	1
21	185447-101	Boot, Microphone Housing	1	1	1	1
22	185446-101	Support, Transmitter	1	1	1	1
23	185448-101	Gasket, Transmitter	1	1	1	1
	185444-101	Volume Control/Dial Light Switch Assembly (Not Shown)	—	—	1	1
	600012-627	Thumbwheel	—	—	1	1
	185412-101	Potentiometer	—	—	1	1
	185445-101	Support, Volume Control	—	—	1	1
	185429-101	Spring Assembly	—	—	1	1
	185430-101	Spring Assembly	—	—	1	1
24	0AC4**-OBA	Base And Housing Assembly (Conventional)	1	—	1	—
24	0AC4**-OLR	Base And Housing Assembly (Conventional, Less Ringer)	1	—	1	—
24	0AC1**-FBA	Base And Housing Assembly (Full-Modular)	1	1	1	1
24	0AC1**-FLR	Base And Housing Assembly (Full-Modular, Less Ringer)	1	—	1	—
24	0AC1**-MBA	Base And Housing Assembly (Full-Modular, With Cord)	1	1	1	1
24	0AC1**-MLR	Base And Housing Assembly (Full-Modular, With Cord, Less Ringer)	1	1	1	1
25	088554-0**	Nameplate	1	1	1	1
26	088551-0**	Housing Assembly, Base	1	1	1	1
27	095992-102	Screw, Housing	2	2	2	2
28	088552-0**	Housing	1	1	1	1
29	088553-101	Plunger, Cradle	1	1	1	1
30	079485-102	Screw, Terminal Board Mounting	2	2	2	2
31	095995-103	Capacitor	1	1	1	1
32	088557-101	Terminal Board Assembly	1	1	1	1
	180221-102	Screw, Mounting	2	2	2	2
33	182979-101	Lever Arm	1	1	1	1
34	075307-104	Spring, Lever Arm	1	1	1	1

SECTION 50-354-101, ISS 2

TABLE A
REPLACEMENT PARTS LIST (Cont)

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED			
			2354/20	2354/21	2354/22	2354/23
		Trendline II, Pushbutton Dial, Wall Telephone				
35	182942-121	Base Assembly (Conventional)	1	—	1	—
35	182942-122	Base Assembly (Conventional Less Ringer)	1	—	1	—
35	182942-113	Base Assembly (Full-Modular)	1	1	1	1
36		Plate, Base ²	1	1	1	1
37	182948-101	Plug, Modular	1	1	1	1
38	088777-103	Cradle Switch Assembly	1	1	1	1
39	182866-101	Lever, Volume Control	1	1	1	1
40	088550-101	Bracket	1	1	1	1
41	095965-101	Fastener	2	2	2	2
42	088563-102	Receptacle And Bracket Assembly	1	1	1	1
43	000153-ABA	Ringer ^{1, 3}	1	1	1	1
43	000153-PBA	Ringer ^{1, 3}	1	1	1	1
	079485-102	Screw, Mounting	2	2	2	2
44	9018**-072	Cord, Coiled	1	—	1	—
44	9018**-108	Cord, Coiled (9-Foot)	—	1	—	1

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Notes:

** Substitute 2-Digit Color Code When Ordering.

¹ Refer To Component Parts Section Of This Manual For Assembly Parts List.

² NSS Item (Not Serviced Separately).

³ The 000153-PBA Ringer Replaces The 000153-ABA Ringer.

TRENDLINE II

PUSHBUTTON DIAL, WALL TELEPHONES

CIRCUIT LABELS

1. GENERAL

1.01 This document covers the Trendline II, pushbutton dial, wall telephones. (See Figure 1.) The circuit label for the Trendline II, pushbutton dial, wall telephones is included. (See Table A.)



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Figure 1: Trendline II, Pushbutton Dial, Wall Telephone

1.02 This section is reissued to conform to CORTELCO Practices format. Issue 2 provided the latest issue circuit label for the Trendline II, pushbutton dial, wall telephones.

1.03 For additional information on description and installation of the telephones, refer to Section 50-354-100. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-354-101. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

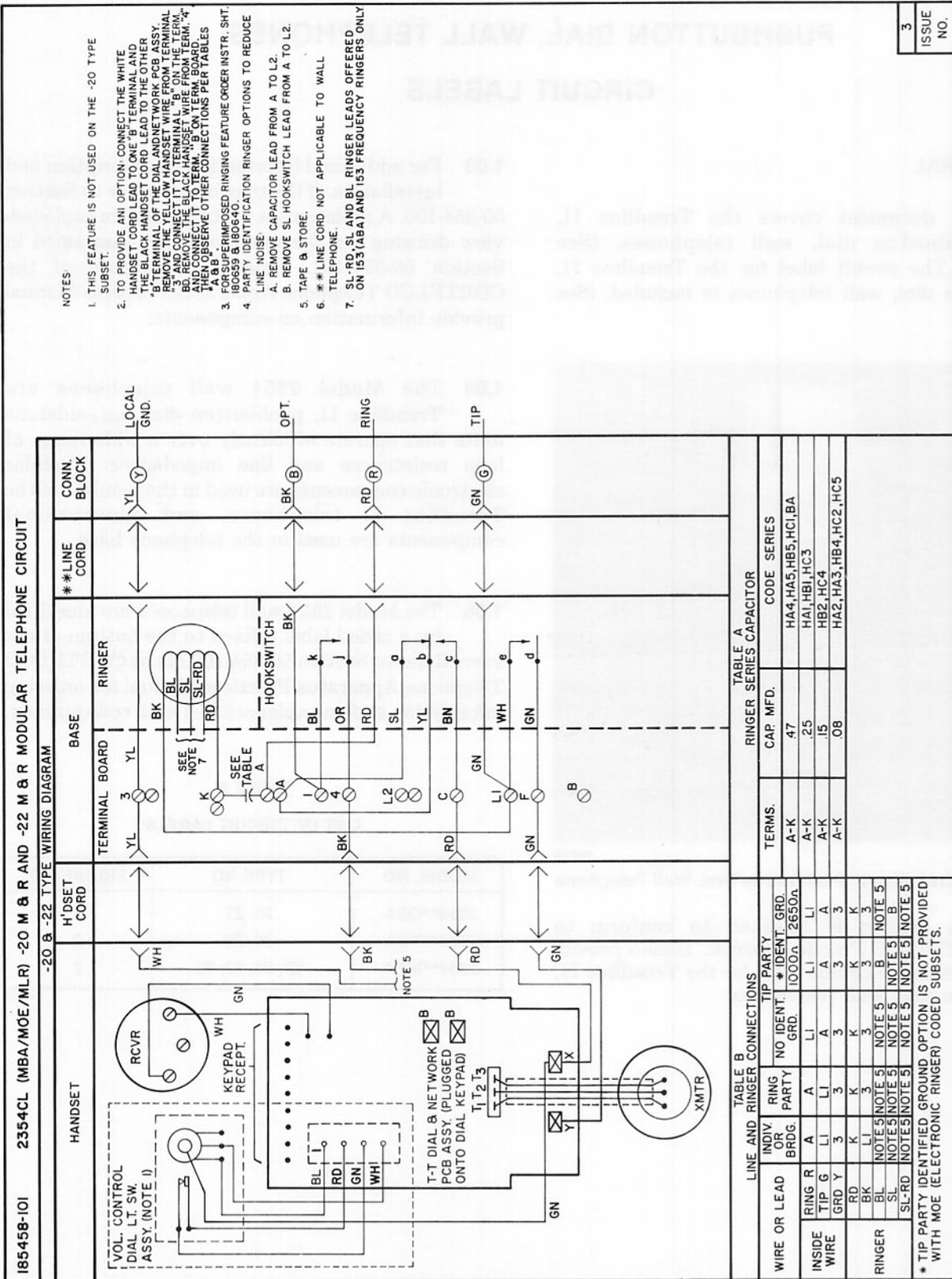
1.04 The Model 2354 wall telephones are Trendline II, pushbutton dial, anti-sidetone units that operate efficiently over a wide range of loop resistances and line impedances. Modular electronic components are used in the handset of the Trendline II telephones, and conventional components are used in the telephone base.

1.05 The Model 2354 wall telephones are identified by a coded label affixed to the bottom of the base. Refer to Section 50-354-100 of the CORTELCO Telephone Apparatus Practices Manual for ordering information and an explanation of each code number.

TABLE A
LIST OF CIRCUIT LABELS

MODEL NO	TYPE NO	FIGURE NO
2354**OBA	20, 22	2
2354**FBA	20, 22	2
2354**MBA	20, 21, 22, 23	2

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3
ISSUE
NO.

Figure 2: Circuit Label, Model 2354**OBA Types 20, 22; Model 2354**FBA Types 20, 22; Model 2354**MBA Types 20, 21, 22, 23