

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

1. GENERAL

1.01 This document covers the single-line, pushbutton dial, miniature size, wall telephone. (See Figure 1.) The circuit labels for the various models of single-line, pushbutton dial, miniature size, wall telephones and the associated features available in each are included in this document. (See Table A.)



AW86-389

Figure 1: Single-Line, Pushbutton Dial, (Miniature Size) Wall Telephone

1.02 This section is reissued for the following reasons:

(a) Issue 4 adds new circuit labels for the Model 2554 telephones with Tel-Pulse dials and for Model 2554 telephones with flash and message waiting and modifiable A-Lead control.

(b) Issue 3 provided the latest issue of circuit labels for the Model 2554, Types 20, 21, 24, and 44; 30, 31, 34, and 44; and 30T and 31T telephones.

(c) Issue 2 provided the latest issue circuit labels for the Model 2554, Types 30T and 31T telephones.

1.03 For additional information on description and installation of the telephones, refer to Section 50-554-106. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-554-107. Related documents of the CORTELCO Telephone Apparatus Practices Manual provide information on components.

1.04 The Model 2554 wall telephones are single-line, pushbutton dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances.

1.05 The Model 2554 wall telephones are identified by a coded label affixed to the bottom of the base plate. Refer to Section 50-554-106 of the CORTELCO Telephone Apparatus Practices Manual for ordering information of complete telephones and for an explanation of each code number.

**TABLE A
LIST OF CIRCUIT LABELS**

MODEL NO	TYPE NO	FIGURE NO
2554	20, 21, 24, 44	2
2554	30, 31, 34, 44	3
2554	30T, 31T	4
2554	20T, 21T	5
2554	20F, 27F	6

AW89-51

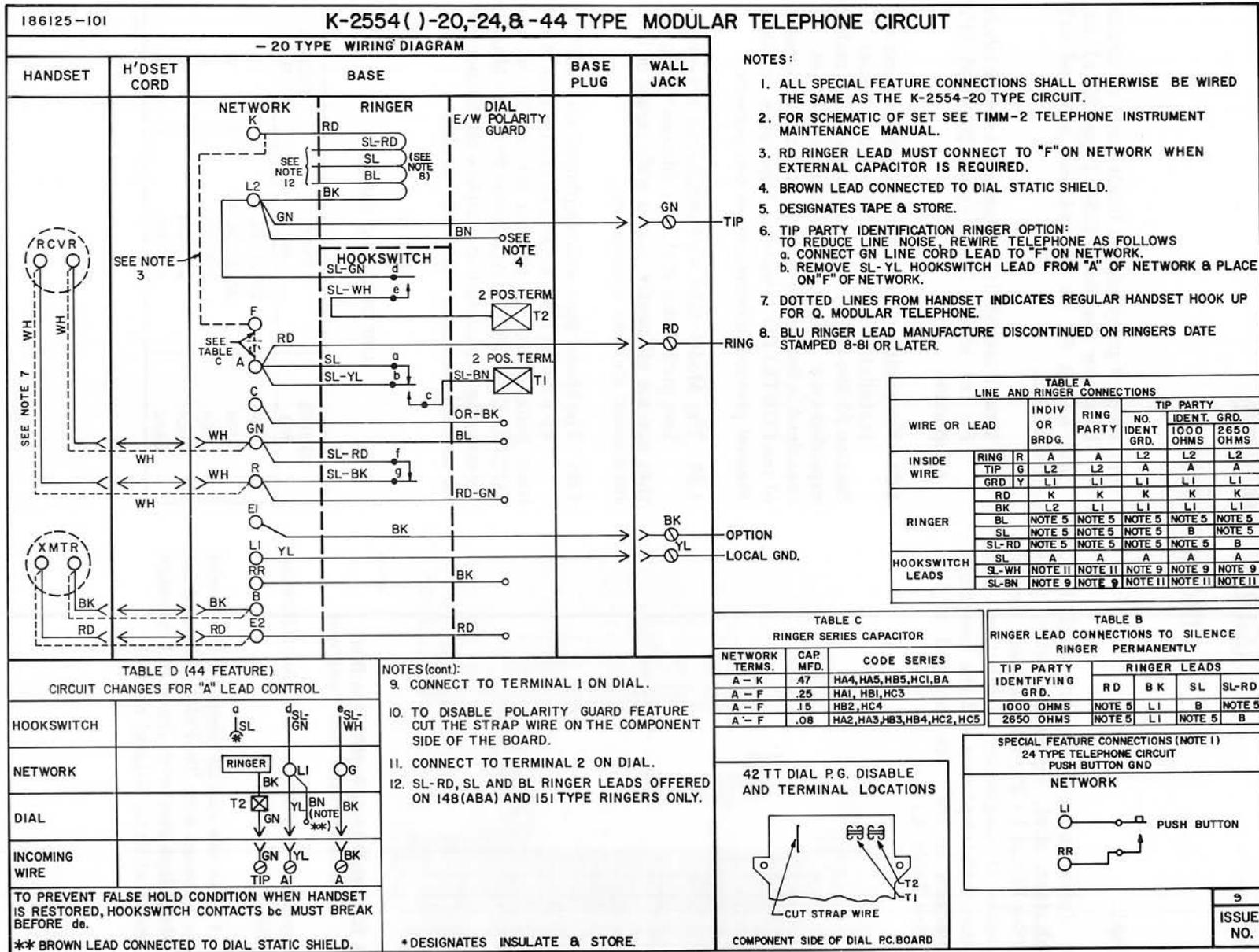
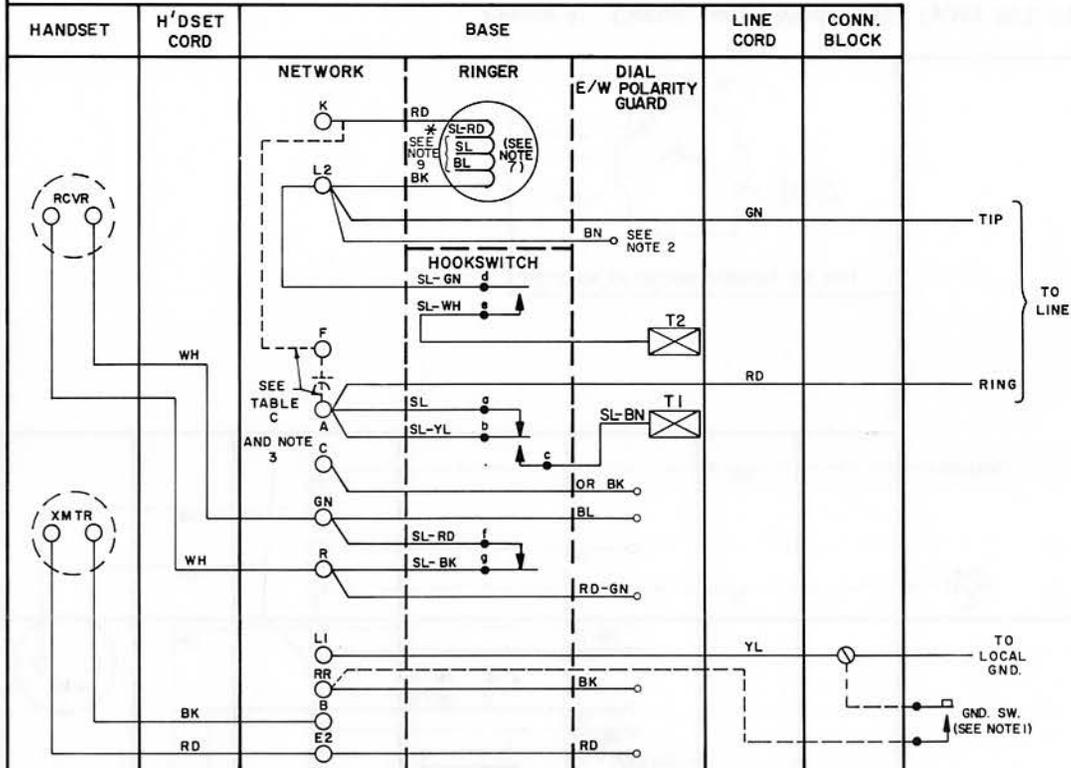


Figure 2: Circuit Label, Model 2554 Types 20, 21, 24, 44

2554 () 30,31,34,44 TYPE TELEPHONE CIRCUIT
(151 FREQ. SEL-148 ABA RINGER)



- NOTES:
1. DOTTED LINES INDICATE CONNECTIONS FOR SPECIAL FEATURE 34 (GROUND BUTTON).
 2. BROWN LEAD CONNECTED TO DIAL STATIC SHIELD.
 3. RD RINGER LEAD MUST CONNECT TO F ON NETWORK WHEN EXTERNAL CAPACITOR IS REQUIRED.
 4. CONNECT TO TERMINAL 1 ON DIAL.
 5. TO DISABLE THE POLARITY GUARD FEATURE CUT STRAP-WIRE ON COMPONENT SIDE OF DIAL P.C. BOARD.

TABLE A
LINE AND RINGER CONNECTIONS

WIRE OR LEAD	INDIV OR BRDG.	RING PARTY	TIP PARTY		
			NO IDENT GRD.	IDENT. 1000 OHMS	GRD. 2650 OHMS
INSIDE WIRE	RING	R	A	L2	L2
	TIP	G	L2	L2	A
	GRD	Y	L1	L1	L1
RINGER	RD	K	K	K	K
	BK	L2	L1	L1	L1
	BL	*	*	*	*
	SL	*	*	*	B
	SL-RD	*	*	*	B
HOOKSWITCH LEADS	SL	A	A	A	A
	SL-WH	NOTE 8	NOTE 8	NOTE 4	NOTE 4
SL-BN	NOTE 4	NOTE 4	NOTE 8	NOTE 8	

TABLE B
RINGER LEAD CONNECTIONS TO SILENCE RINGER PERMANENTLY

TIP PARTY IDENTIFYING GRD.	RINGER LEADS			
	RD	BK	SL	SL-RD
1000 OHMS	*	L1	B	*
2650 OHMS	*	L1	*	B

TABLE C
RINGER SERIES CAPACITOR

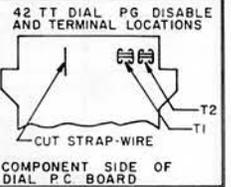
NETWORK TERMS.	CAP. MFD.	CODE SERIES
A - K	.47	HA4, HA5, HB5, HC1, BA
A - F	.25	HA1, HB1, HC3
A - F	.15	HB2, HC4
A - F	.08	HA2, HA3, HB3, HB4, HC2, HC5

TABLE D (44 FEATURE)
CIRCUIT CHANGES FOR A LEAD CONTROL

HOOKSWITCH	a SL	d SL-GN	e SL-WH
NETWORK	RINGER	LI	G
DIAL	T2	BN (NOTE **)	
INCOMING WIRE	GN	YL	BK

TO PREVENT FALSE HOLD CONDITION WHEN HANDSET IS RESTORED, HOOKSWITCH CONTACTS bc MUST BREAK BEFORE de.

** BROWN LEAD CONNECTED TO DIAL STATIC SHIELD

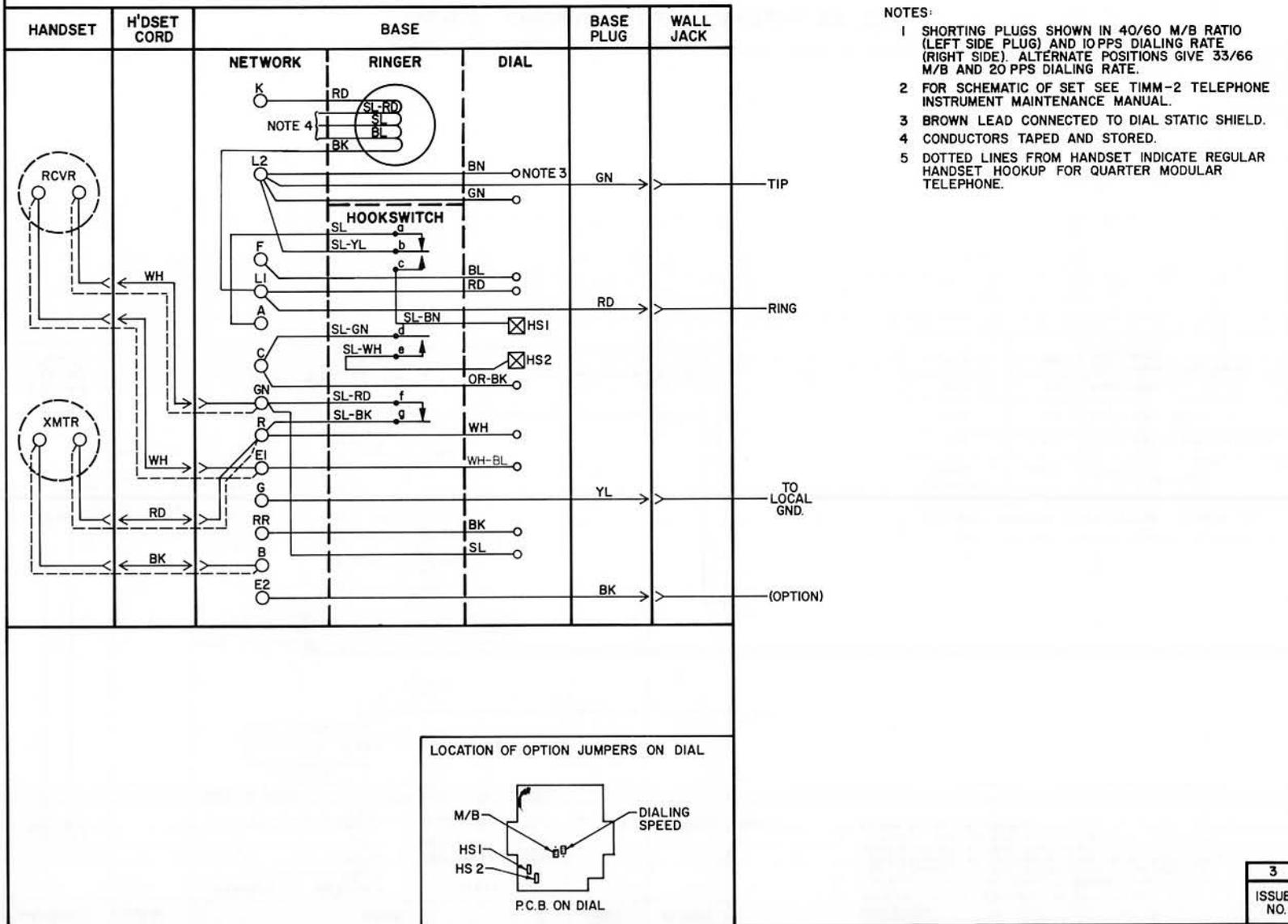


- NOTES (cont'd)
6. TIP PARTY IDENTIFICATION RINGER OPTION TO REDUCE LINE NOISE, REWIRE TELEPHONE AS FOLLOWS:
A. CONNECT GN LINE CORD LEAD TO "F" ON NETWORK.
B. REMOVE YL HOOKSWITCH LEAD FROM "A" ON NETWORK & PLACE ON "F" OF NETWORK.
 7. BLU RINGER LEAD MANUFACTURE DISCONTINUED ON RINGERS DATE STAMPED B-81 OR LATER.
 8. CONNECT TO TERMINAL 2 ON DIAL.
 9. SL-RD, SL AND BL RINGER LEADS OFFERED ON 148(ABA) AND 151 TYPE RINGERS ONLY.
- | |
|-----------|
| 4 |
| ISSUE NO. |
- * DESIGNATES INSULATE AND STORE.

Figure 3: Circuit Label, Model 2554 Types 30, 31, 34, 44

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2554CL()20T TYPE MODULAR TELEPHONE CIRCUIT



- NOTES:
- 1 SHORTING PLUGS SHOWN IN 40/60 M/B RATIO (LEFT SIDE PLUG) AND 10 PPS DIALING RATE (RIGHT SIDE). ALTERNATE POSITIONS GIVE 33/66 M/B AND 20 PPS DIALING RATE.
 - 2 FOR SCHEMATIC OF SET SEE TIMM-2 TELEPHONE INSTRUMENT MAINTENANCE MANUAL.
 - 3 BROWN LEAD CONNECTED TO DIAL STATIC SHIELD.
 - 4 CONDUCTORS TAPED AND STORED.
 - 5 DOTTED LINES FROM HANDSET INDICATE REGULAR HANDSET HOOKUP FOR QUARTER MODULAR TELEPHONE.

3
ISSUE NO.

Figure 5: Circuit Label, Model 2554 Types 20T, 21T

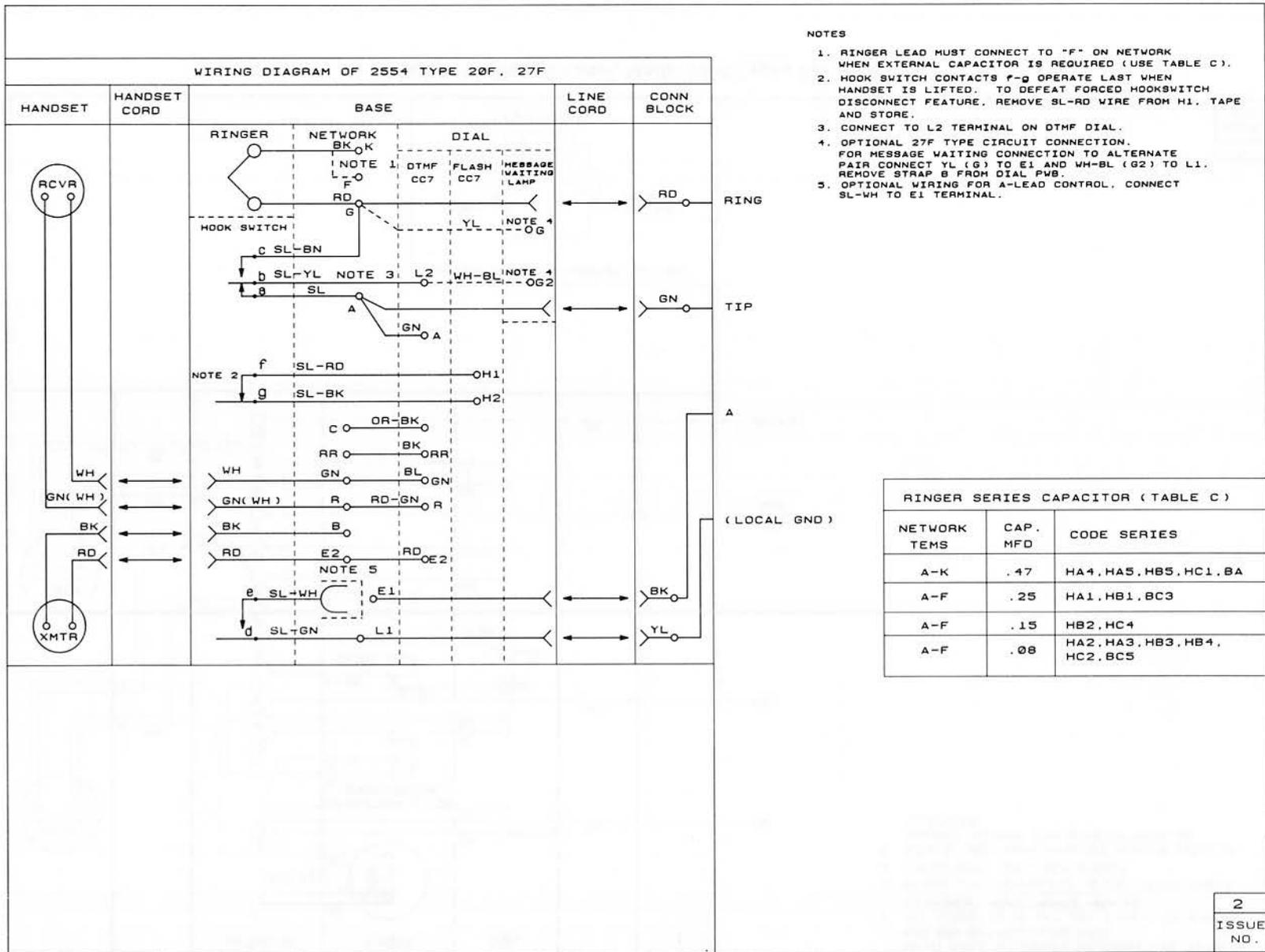


Figure 6: Circuit Label, Model 2554 Types 20F, 27F