

6-BUTTON, PUSHBUTTON DIAL, KEY TELEPHONES

CIRCUIT LABELS

1. GENERAL

1.01 This document covers the 6-button, pushbutton dial, key telephones. (See Figure 1.) The circuit labels for the various models of 6-button, pushbutton dial, key telephones and the associated features available in each are included in this document. (See Table A.)



AW 86-341

Figure 1: 6-Button, Pushbutton Dial, Key Telephone

1.02 This section is reissued to provide the latest issue of circuit labels for the following 6-button, pushbutton dial, key telephones:

- (a) Model 2564, Types 40M and 41M
- (b) Model 2565, Types 40M, 41M, and 40R
- (c) Model 2565, Types 42 and 46
- (d) Model 2566, Types 40 and 41
- (e) Model 2567, Types 40M and 41M
- (f) Model 2567, Types 42 and 46

1.03 For additional information on description and installation of the telephones, refer to Section 50-565-103. A replacement parts list and an exploded-view drawing for the telephones are contained in

Section 50-565-104. Related documents of the ITT Telephone Apparatus Practices Manual provide information on components.

1.04 The Models 2564/2565, 2566/2567 key telephones are identified by a code number stamped in ink on the bottom of the base plate. Refer to Section 50-565-103 of the ITT Telephone Apparatus Practices Manual for ordering information of complete telephones and an explanation of each code number.

1.05 The Models 2564/2565, 2566/2567 key telephones are 6-button, pushbutton dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances. They are designed to be used with key systems, such as the ITT 1A2 System, where several telephones have access to the same lines, CO trunks, or intercom lines.

1.06 The Model 2564 Type 40 telephone is the standard 6-button, pushbutton dial, desk type, key telephone. The Model 2565 Type 40 telephone is similar to the Model 2564 Type 40 with the addition of an exclusion switch. The Model 2566 Type 40 telephone is similar to the Model 2564 Type 40 with the addition of the hookswitch restoration feature. The Model 2567 Type 40 telephone is similar to the Model 2565 Type 40 with the addition of the hookswitch restoration feature.

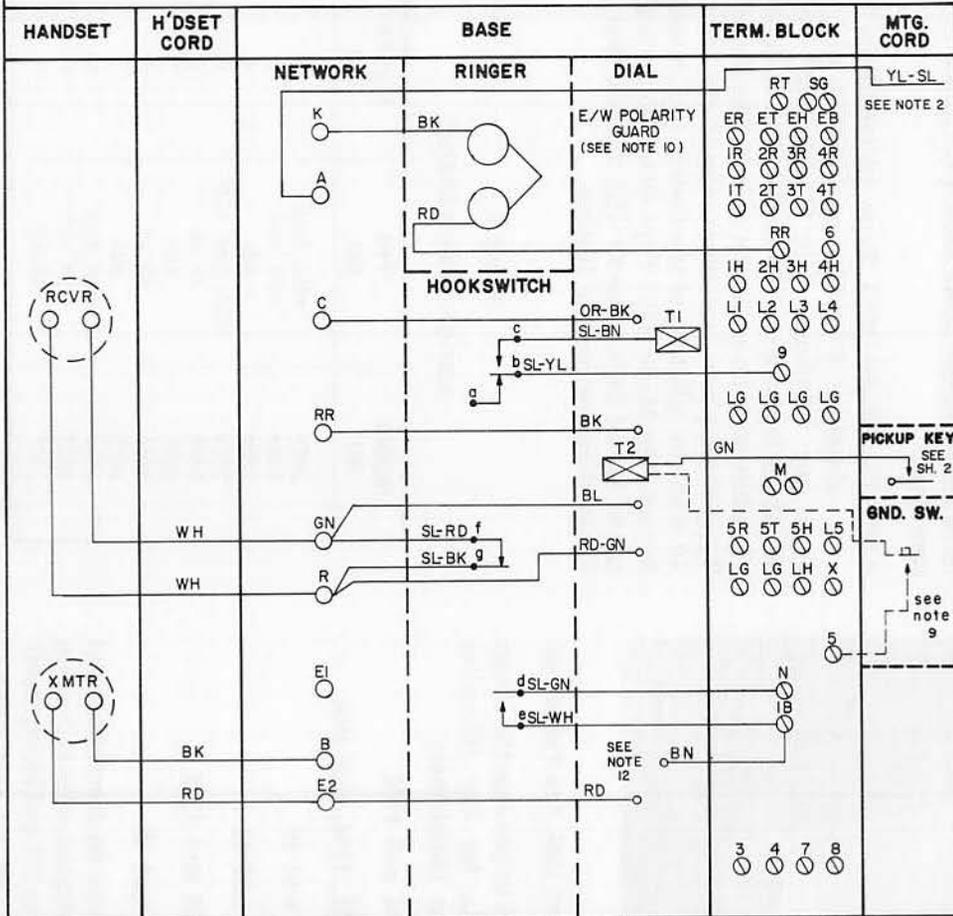
TABLE A
LIST OF CIRCUIT LABELS

MODEL NO	TYPE NO	FIGURE NO
2564	40M, 41M	2
2564	40R, 41R	3
2564	40T	4
2565	40M, 41M, 40R	5
2565	42, 46	6
2565	41R	7
2566	40, 41	8
2566	40T	9
2567	40M, 41M	10
2567	40R, 41R	11
2567	42, 46	12

AW 86-336

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2564 ()40,41 TYPE TELEPHONE CIRCUIT



NOTES:

- CONTACT SEQUENCE:
REMOVING HANDSET RESTORING HANDSET
A. de CLOSES BEFORE cb A. fg CLOSES
B. fg OPENS B. cb OPENS BEFORE de
 - SEE TABLE FOR CONNECTIONS.
 - FOR RINGER CUT-OFF CONTROL BY CUSTOMER:
BEND STOP NEXT TO DETENT ON RINGER VOLUME CONTROL SO THAT IT COMPLETELY CLEARS THE RIM OF THE RINGER FRAME. THIS PROVIDES A FURTHER POSITION ON VOLUME CONTROL WHICH PREVENTS ARMATURE MOVEMENTS.
 - KEY FEATURE DESIGNATIONS:
H - HOLD
P - PICK-UP
S - SIGNAL
P^S - CONVERTIBLE, PICK-UP OR SIGNAL
 - DD * CONDUCTORS ARE TAPED AND STORED IN TELEPHONE.
 - PROVIDE "M" WIRING WHEN THE BUZZER IS TO OPERATE ON 60 CYCLES AC, AND PROVIDE "N" WIRING WHEN THE BUZZER IS TO OPERATE ON DC.
 - NUMBERS SHOWN INDICATE TERMINAL NO. ON MOUNTING CORD CONNECTOR.
 - CONDUCTOR COLORS: BODY FIRST, TRACER SECOND.
 - BROKEN LINE INDICATES GROUNDING CIRCUIT FOR TELEPHONES WITH 34 OR 41 FEATURE.
 - TO DISABLE THE POLARITY GUARD FEATURE CUT STRAP-WIRE ON COMPONENT SIDE OF DIAL P.C. BOARD. (SEE SHEET 2).
- II. THE BUSY LAMP LEAD (SEPERATE WIRE) IS CONNECTED TO L1.
*I2. BROWN LEAD CONNECTED TO DIAL STATIC SHIELD.

TABLE A
130(OBA) RINGER CONNECTIONS ONLY

SET RINGER OR BUZZER NOT TO BE CUT OFF IN SET	WHEN USED AS BRIDGED RINGER ON ANY LINE		RINGER OR BUZZER LEAD				
	WHEN USED AS PRIVATE LINE COMMON SIG. OR OTHER USE	WITH CAPACITOR	WITHOUT CAPACITOR	SL-RD	SL	BK	RD
		A	A	K	T	R	
						RT	RR

† TERMINAL ON NETWORK

TABLE B
K1A1/K1A2 BUSY LAMP CONVERSION

	LEADS				STRAP —C—	DIODE 18C658 —K— IN 4004	DIODE 18O658 —D— IN 4004
	SWITCH		HOLDKEY				
	SL-WH	SL-GN	SL-YL	YL			
NO STATION BUSY LAMP	IB	N	9	M			3
WITH STATION BUSY LAMP	IB	† L2	9	M	† G TO N	† G TO L2	† L2 TO L1

TABLE C
PICKUP-SIGNALLING CONVERSION
CONVERT FROM LOCKING TO NON-LOCKING OR VICE-VERSA AND CHANGE LEADS AS FOLLOWS:

	NO. OF PICKUP KEYS	NO. OF SIG. KEYS CONVERTED FROM P.U. KEYS	NO. OF PRIVATE AND INTERCOMMUNICATING LINES WITH COMMON SIG. KEY	KEY LEADS			
				YL-BN	BN	SL-RD	BN-BK
6 BUTTON SET	5			M	M	M	X
	4	1		M	M	M	SG
	3	2		M	M	SG	X
	4	1	2	M	X	5H	SG
	4	1	3	X	X	5H	SG

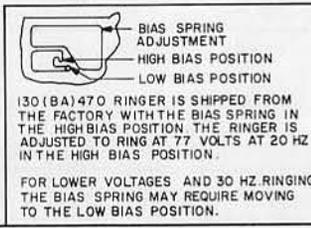


Figure 2: Circuit Label, Model 2564 Types 40M, 41M (Sheet 1 of 2)

2564 () 40,41 TYPE TELEPHONE CIRCUIT

TEL CODE	KEY FEATURES	COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND TERMINAL STRIP (NOTE 8)																							
		BL-WH	WH-BL	OR-WH	WH-OR	GN-WH	WH-GN	BN-WH	WH-BN	WH-SL	BL-RD	OR-RD	RD-OR	GN-RD	RD-GN	BN-RD	SL-RD	RD-SL	BL-BK	BK-BL	OR-BK	GN-BK			
2564***(BA)	SEE NOTE 4	1R	1T	1B	1H	1L	1G	2R	2T	2H	2L	2G	3R	3T	DD*	3H	L3	LG	4R	4T	DD*	4H	L4	LG	5R
30/40 M	Hpppspsps																								

COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND TERMINAL STRIP (NOTE 8)																								
BK-GN	GN-BK	BK-BN	BN-BK	BK-SL	SL-BK					GN-YL	YL-GN	OR-YL	YL-OR			YL-BN		BN-YL	YL-BN	YL-SL	SL-YL	SL-WH	WH-SL	
5T	DD*	5H	L5	LG	ER	ET	EB	EH	LH	LG	3	4	7	8	9	RR	L2	L1	N	SG	RR	A	5	

TERMINAL ON NETWORK

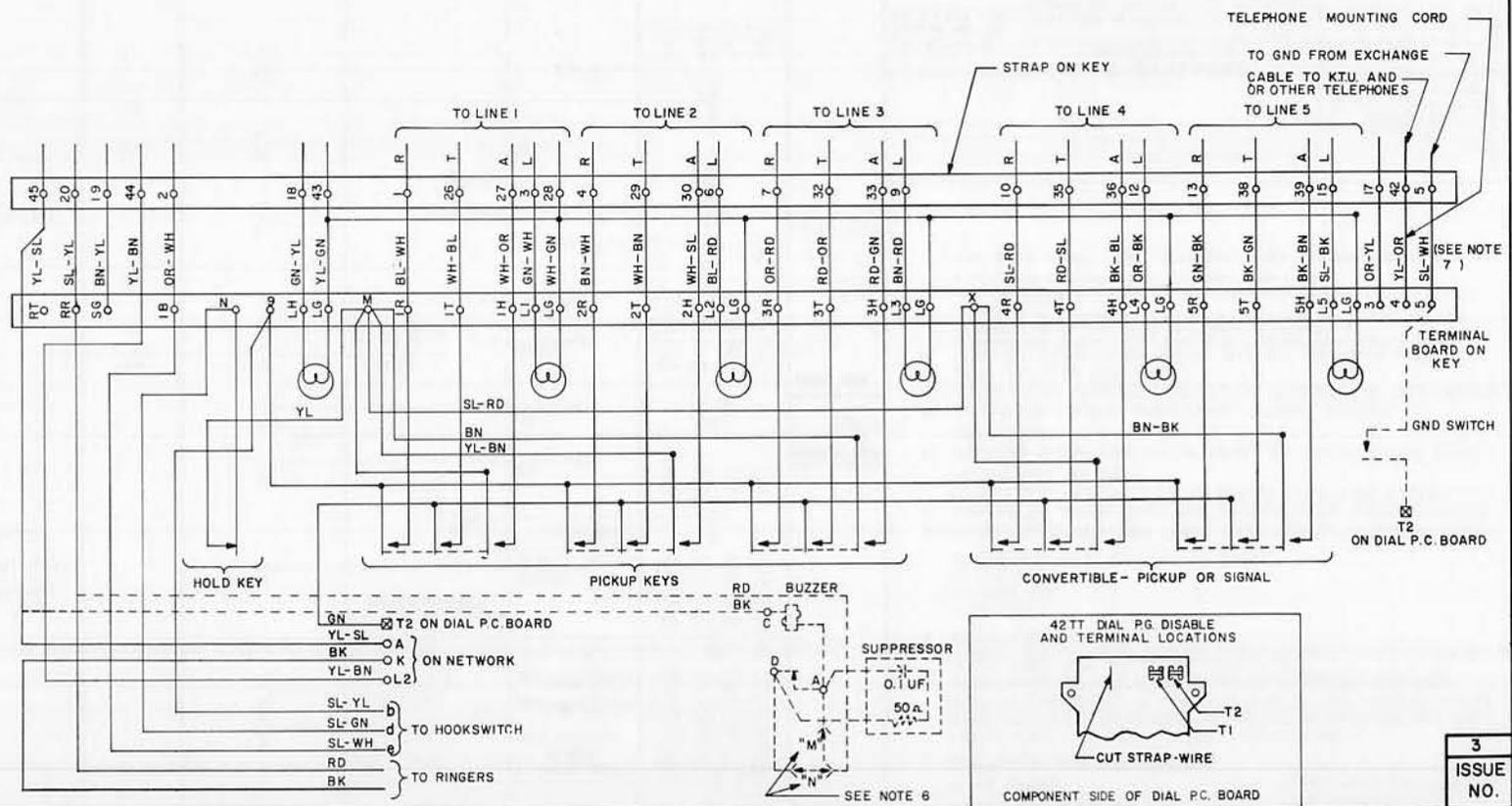
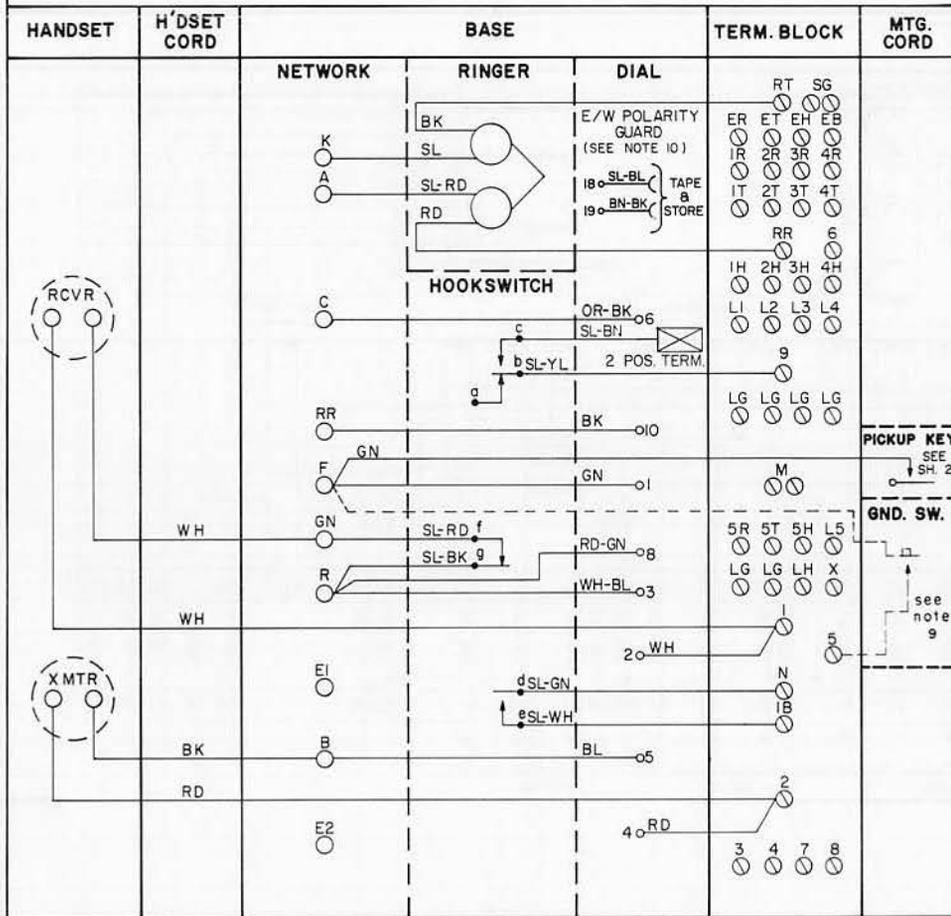


Figure 2: Circuit Label, Model 2564 Types 40M, 41M (Sheet 2 of 2)

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2564 () 40,41 TYPE TELEPHONE CIRCUIT



NOTES:

- CONTACT SEQUENCE:
 REMOVING HANDSET RESTORING HANDSET
 A. d e CLOSES BEFORE c b A. f g CLOSES
 B. f g OPENS B. c b OPENS BEFORE d e
- SEE TABLE FOR CONNECTIONS.
- FOR RINGER CUT-OFF CONTROL BY CUSTOMER: BEND STOP NEXT TO DETENT ON RINGER VOLUME CONTROL SO THAT IT COMPLETELY CLEARS THE RIM OF THE RINGER FRAME. THIS PROVIDES A FURTHER POSITION ON VOLUME CONTROL WHICH PREVENTS ARMATURE MOVEMENTS.
- KEY FEATURE DESIGNATIONS:
 H - HOLD
 P - PICK-UP
 S - SIGNAL
 P^S - CONVERTIBLE, PICK-UP OR SIGNAL
- DD * CONDUCTORS ARE TAPED AND STORED IN TELEPHONE.
- PROVIDE "M" WIRING WHEN THE BUZZER IS TO OPERATE ON 60 CYCLES AC, AND PROVIDE "N" WIRING WHEN THE BUZZER IS TO OPERATE ON DC.
- NUMBERS SHOWN INDICATE TERMINAL NO. ON MOUNTING CORD CONNECTOR.
- CONDUCTOR COLORS: BODY FIRST, TRACER SECOND.
- BROKEN LINE INDICATES GROUNDING CIRCUIT FOR TELEPHONES WITH 34 OR 41 FEATURE.
- TO DISABLE POLARITY GUARD FEATURE, RECONNECT DIAL AS FOLLOWS:
 a. DISCONNECT GN DIAL LEAD FROM TERM. F ON NETWORK, TAPE **B** STORE
 b. CONNECT BN-BK DIAL LEAD TO TERM. F ON NETWORK.
 c. MOVE SL-BN HOOKSWITCH LEAD FROM DIAL 2 POSITION TERM. TO TERM. C OF NETWORK.
 d. CONNECT SL-BL DIAL WIRE TO TERM. RR ON NETWORK.
 e. CUT STRAP WIRE NEXT TO 2 POSITION TERM. ON DIAL.
- THE BUSY LAMP LEAD (SEPARATE WIRE) IS CONNECTED TO L1.

TABLE A
RINGER CONNECTIONS

	RINGER OR BUZZER LEAD			
	SL-RD	SL	BK	RD
WHEN USED AS BRIDGED RINGER ON ANY LINE	A	K	T	R
WHEN USED AS PRIVATE LINE COMMON SIG. OR OTHER USE	WITH CAPACITOR	A	K	RT RR
	WITHOUT CAPACITOR	A	A	

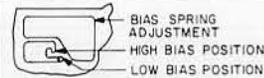
* TERMINAL ON NETWORK

TABLE B
K1A1/K1A2 BUSY LAMP CONVERSION

	LEADS				STRAP	DIODE 180658 IN 4004	DIODE 180658 IN 4004	ISSUE NO.
	SWITCH		HOLDKEY					
	SL-WH	SL-GN	SL-YL	YL				
NO STATION BUSY LAMP	IB	N	9	M			3	
WITH STATION BUSY LAMP	IB	#	9	M	# TO N	# TO L2	# TO L1	

TABLE C
PICKUP-SIGNALING CONVERSION
CONVERT FROM LOCKING TO NON-LOCKING OR VICE-VERSA
AND CHANGE LEADS AS FOLLOWS:

	NO. OF PICKUP KEYS	NO. OF SIG. KEYS CONVERTED FROM R.U. KEYS	NO. OF PRIVATE AND INTERCOMMUNICATING LINES WITH COMMON SIG. KEY	KEY LEADS			
				YL-BN	BN	SL-RD	BN-BK
6 BUTTON SET	5			M	M	M	X
	4	1		M	M	M	SG
	3	2		M	M	SG	X
	4	1	2	M	X	5H	SG
4	1	3		X	X	5H	SG



130 (BA) 470 RINGER IS SHIPPED FROM THE FACTORY WITH THE BIAS SPRING IN THE HIGH BIAS POSITION. THE RINGER IS ADJUSTED TO RING AT 77 VOLTS AT 20 HZ. IN THE HIGH BIAS POSITION.

FOR LOWER VOLTAGES AND 30 HZ RINGING, THE BIAS SPRING MAY REQUIRE MOVING TO THE LOW BIAS POSITION.

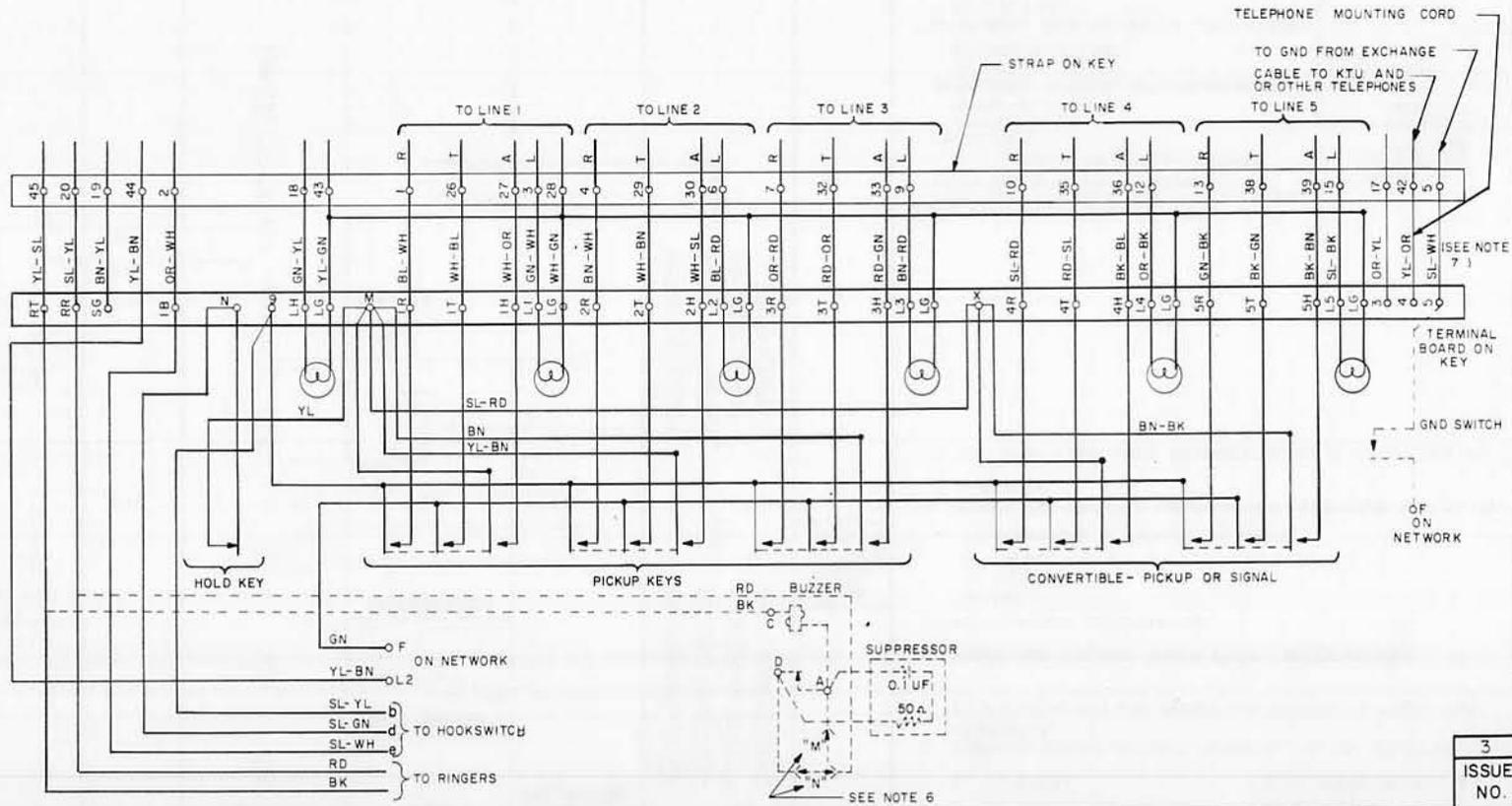
Figure 3: Circuit Label, Model 2564 Types 40R, 41R (Sheet 1 of 2)

2564 () 40,41 TYPE TELEPHONE CIRCUIT

TEL CODE	KEY FEATURES	COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND TERMINAL STRIP (NOTE 8)																							
		BL-WH	WH-BL	OR-WH	WH-OR	GN-WH	WH-GN	BN-WH	WH-BN	WH-SL	BL-RD	OR-RD	RD-OR	GN-RD	RD-GN	BN-RD	RD-BN	SL-RD	RD-SL	BL-BK	BK-BL	OR-BK	GN-BK		
2564***(BA)	SEE NOTE 4	IR	IT	IB	IH	LI	LG	2R	2T	2H	L2	LG	3R	3T	DD*	3H	L3	LG	4R	4T	DD*	4H	L4	LG	5R
30/40 M	HPppsp5p5																								

COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND TERMINAL STRIP (NOTE 8)																								
BK-BN	BN-BK	BK-BN	SL-BK							GN-YL	YL-GN	OR-YL	YL-OR			YL-BN			BN-YL	SL-YL	YL-SL	SL-WH		
5 T	DD*	5 H	L5	LG	ER	ET	EB	EH	LH	LG	3	4	7	8	9	RR	L2	LI	N	SG	RR	RT	5	

TERMINAL ON NETWORK

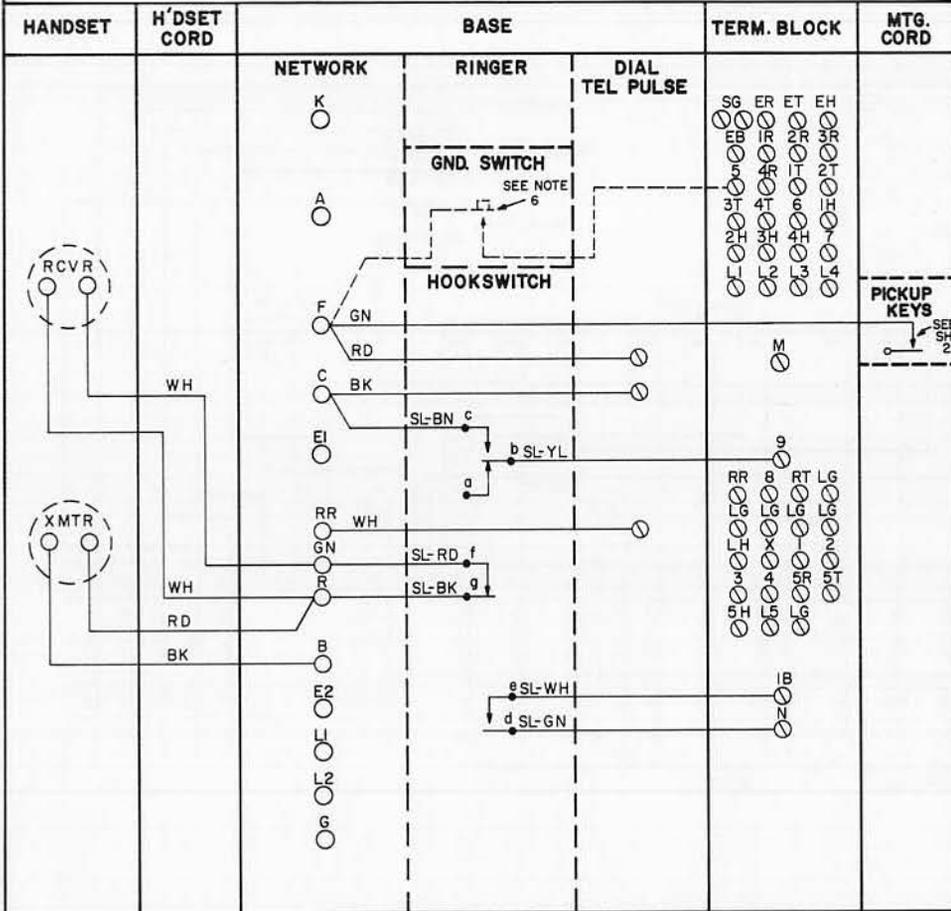


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Figure 3: Circuit Label, Model 2564 Types 40R, 41R (Sheet 2 of 2)

183084-101

2564 (LR) 40T TYPE TELEPHONE CIRCUIT



NOTES:

1. CONTACT SEQUENCE
 REMOVING HANDSET RESTORING HANDSET
 A. d e CLOSES BEFORE c b A. f g CLOSES
 B. f g OPENS B. c b OPENS BEFORE d e
2. NUMBERS SHOWN INDICATE TERMINAL NO. ON MOUNTING CORD CONNECTOR.
3. DD* CONDUCTORS ARE TAPED AND STORED IN TELEPHONE.
4. CONDUCTOR COLORS: BODY FIRST, TRACER SECOND.
5. KEY FEATURE DESIGNATIONS:
 H. HOLD
 P. PICK-UP
 S. SIGNAL
 P^s. CONVERTIBLE, PICK-UP OR SIGNAL
6. BROKEN LINE INDICATES GROUNDING FOR TELEPHONE WITH 34 OR 41 FEATURE.
7. THE BUSY LAMP LEAD (SEPARATE WIRE) IS CONNECTED TO L1.

PULSE RATE AND INTERDIGITAL TIME PROVISIONS ARE MADE FOR OPTIONAL PULSE RATES AND INTERDIGITAL INTERVALS.

LOCATION OF OPTION JUMPERS

- PULSE RATE
 10 PPS - GN TO E1
 20 PPS - GN TO E2
 INTERDIGITAL INTERVAL AT 10 PPS *(NOMINAL)
 400 MS - BL TO E1
 800 MS - BL TO E2
 * INTERVAL FOR 20 PPS IS 1/2 INTERVAL FOR 10 PPS

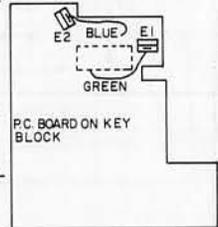


TABLE B
 PICKUP-SIGNALING CONVERSION
 CONVERT FROM LOCKING TO NON-LOCKING OR VICE-VERSA
 AND CHANGE LEADS AS FOLLOWS:

	NO. OF PICKUP KEYS	NO. OF SIG. KEYS CONVERTED FROM P.U. KEYS	NO. OF PRIVATE AND INTERCOMMUNICATING LINES WITH COMMON SIG. KEY	KEY LEADS			
				YL-BN	BN	SL-RD	BN-BK
6 BUTTON SET	5			M	M	M	X
	4	1		M	M	M	SG
	3	2		M	M	SG	X
	2	3		M	X	SG	X
	4	1	2	M	X	5H	SG
	4	1	3	X	X	5H	SG

* TERMINAL ON NETWORK

TABLE A
 KIA1/KIA2 BUSY LAMP CONVERSION

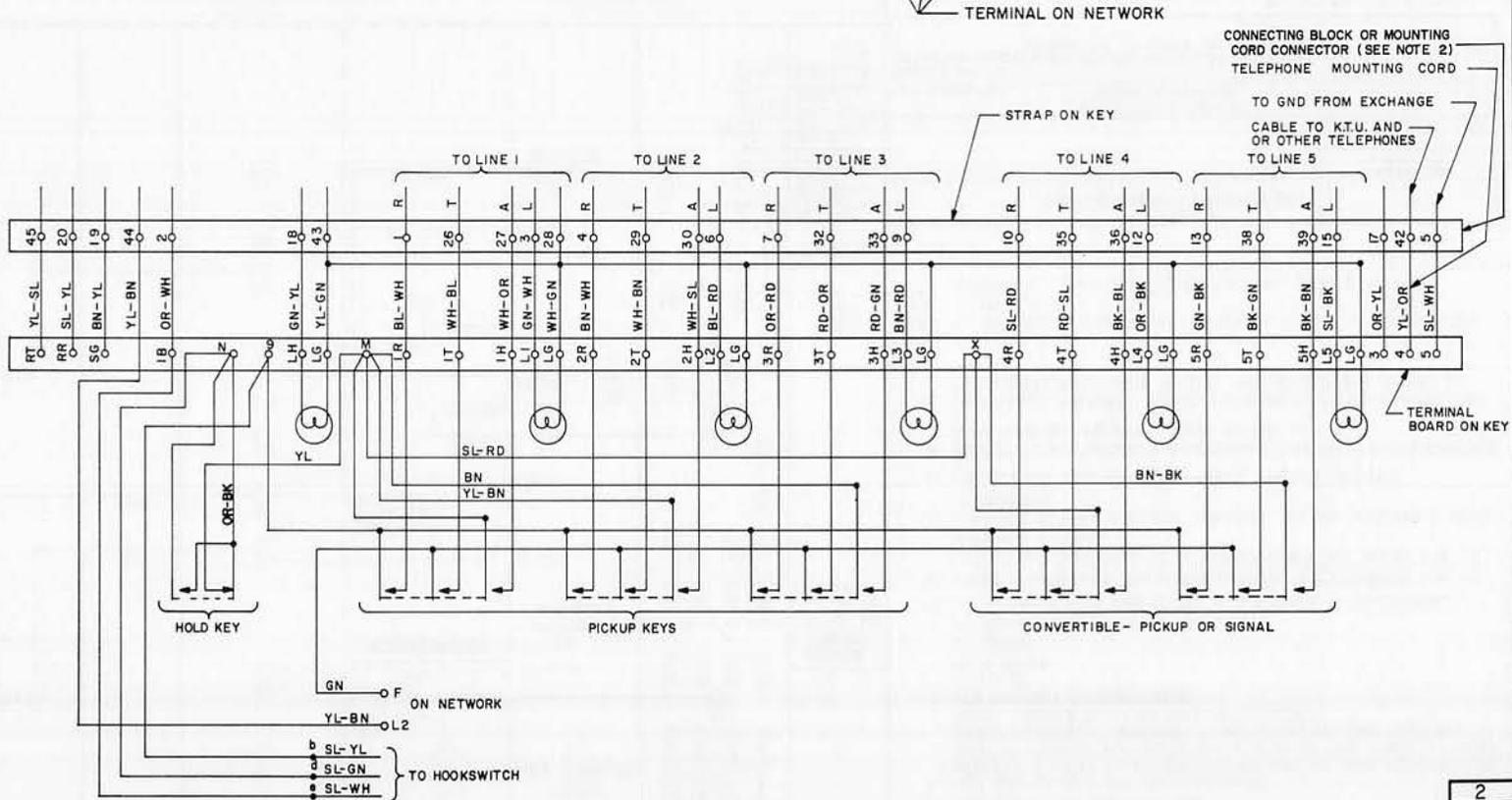
	LEADS					STRAP	DIODE 180658 IN4004	DIODE 180658 IN4004	ISSUE NO.
	SWITCH			HOLDKEY					
	SL-WH	SL-GN	SL-YL	YL	OR-BK				
NO STATION BUSY LAMP	1B	N	9	M	N				2
WITH STATION BUSY LAMP	1B	# L2	9	M	N	# G TO N	# G TO L2	# L2 TO L1	

Figure 4: Circuit Label, Model 2564 Type 40T (Sheet 1 of 2)

2564(LR) 40T TYPE TELEPHONE CIRCUIT

TEL CODE	KEY FEATURES	COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 4)																							
		BL-WH	WH-BL	OR-WH	WH-OR	GN-WH	WH-GN	BN-WH	WH-BN	WH-SL	BL-RD	OR-RD	RD-OR	GN-RD	RD-GN	BN-RD	SL-RD	RD-SL	BL-BK	BK-BL	OR-BK	GN-BK			
2564**	SEE NOTE 5	IR	IT	IB	IH	LI	LG	2R	2T	2H	L2	LG	3R	3T	DD*	3H	L3	LG	4R	4T	DD*	4H	L4	LG	5R
(LR) 40T	pppppsps																								

COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 4)																									
BK	BN	BK	SL							GN	YL	OR	YL					YL	BN		BN	SL	YL	SL	WH
GN	BK	BN	BK							YL	GN	YL	OR								YL	YL	SL	WH	
5T	DD*	5H	L5	LG	ER	ET	EB	EH	LH	LG	3	4	7	8	9	RR	L2	LI	N	SG	RR	RT	5		

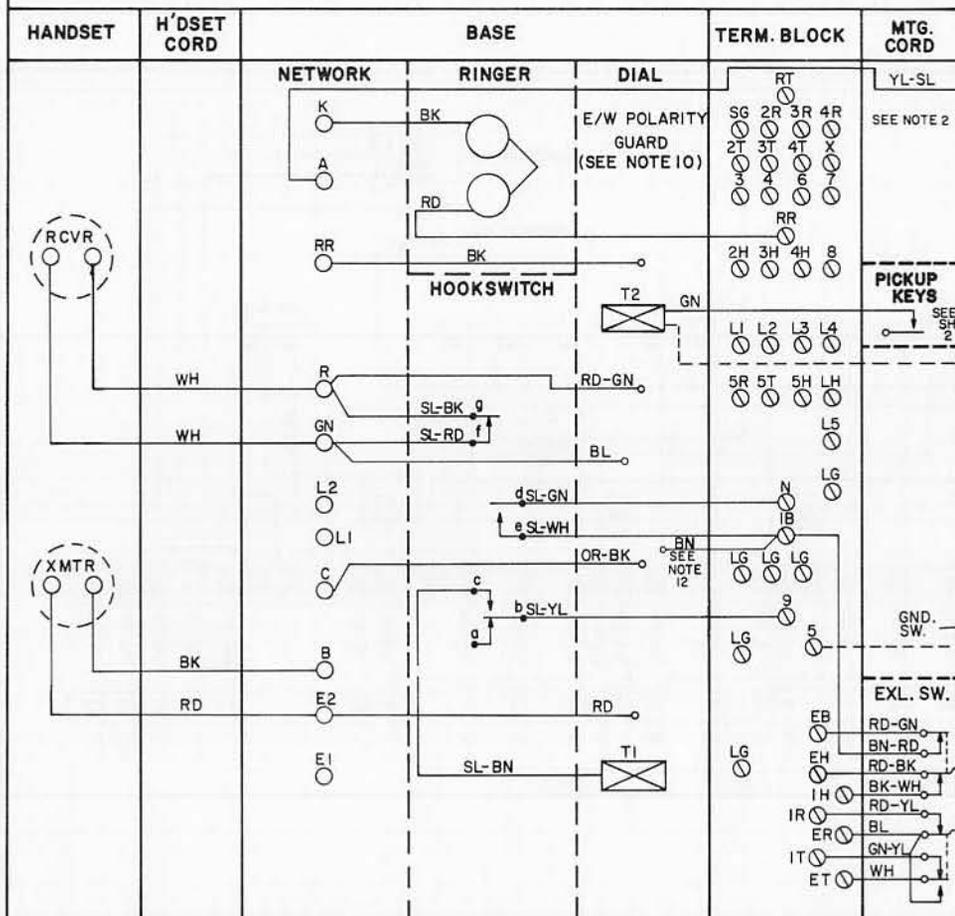


2
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NO.

Figure 4: Circuit Label, Model 2564 Type 40T (Sheet 2 of 2)

186282-101

2565 () 40,41 TYPE TELEPHONE CIRCUIT



NOTES:

- CONTACT SEQUENCE:
 REMOVING HANDSET A. d e CLOSES BEFORE c b
 RESTORING HANDSET A. f g CLOSES
 B. f g OPENS B. c b OPENS BEFORE d e
- SEE TABLE FOR CONNECTIONS.
- FOR RINGER CUT-OFF BY CUSTOMER:
 BEND STOP NEXT TO DETENT ON RINGER VOLUME CONTROL SO THAT IT COMPLETELY CLEARS THE RIM OF THE RINGER FRAME. THIS PROVIDES A FURTHER POSITION ON VOLUME CONTROL WHICH PREVENTS ARMATURE MOVEMENT.
- KEY FEATURE DESIGNATIONS:
 H. HOLD
 P. PICK-UP
 S. SIGNAL
 P⁵ CONVERTIBLE, PICK-UP SIGNAL
 DD * CONDUCTORS ARE TAPED AND STORED IN TELEPHONE.
- PROVIDE "M" WIRING WHEN THE BUZZER IS TO OPERATE ON 60 CYCLES AC, AND PROVIDE "N" WIRING WHEN THE BUZZER IS TO OPERATE ON DC.
- NUMBERS SHOWN INDICATE TERMINAL NO. ON MOUNTING CORD CONNECTOR.
- CONDUCTOR COLORS: BODY FIRST, TRACER SECOND.
- BROKEN LINES INDICATE GROUNDING CIRCUIT FOR TELEPHONES WITH SPECIAL FEATURE CODE 34 OR 41.
- TO DISABLE POLARITY GUARD FEATURE CUT STRAP-WIRE ON THE COMPONENT SIDE OF DIAL P.C. BOARD. (SEE SHEET 2)
- THE BUSY LAMP LEAD (SEPERATE WIRE) IS CONNECTED TO L1.
- BROWN LEAD CONNECTED TO DIAL STATIC SHIELD.

TABLE A
130(OBA) RINGER CONNECTIONS ONLY

	RINGER OR BUZZER LEAD			
	SL-RD	SL	BK	RD
WHEN USED AS BRIDGED RINGER ON ANY LINE	A	K	T	R
WHEN USED AS PRIVATE LINE COMMON SIG. OR OTHER USE	WITH CAPACITOR	A	K	RT
	WITHOUT CAPACITOR	A	A	RR

TERMINAL ON NETWORK

TABLE C
PICKUP-SIGNALING CONVERSION
CONVERT FROM LOCKING TO NON-LOCKING OR VICE-VERSA
AND CHANGE LEADS AS FOLLOWS:

	NO. OF PICKUP KEYS	NO. OF SIG. KEYS CONVERTED FROM P.U. KEYS	NO. OF PRIVATE AND INTERCOMMUNICATING LINES WITH COMMON SIG. KEY	KEY LEADS			
				YL-BN	BN	SL-RD	BN-BK
6 BUTTON SET	5			M	M	M	X
	4	1		M	M	M	SG
	3	2		M	M	SG	X
	4	1	2	M	X	5H	SG
4	1	3		X	X	5H	SG

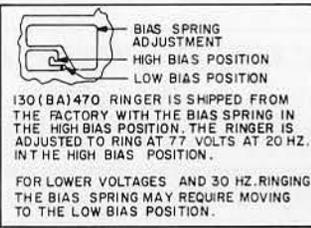


TABLE B
KIAI/KIA2 BUSY LAMP CONVERSION

	LEADS				STRAP	DIODE 180658 IN 4004	DIODE 180658 IN 4004
	SWITCH		HOLDKEY				
	SL-WH	SL-GN	SL-YL	YL			
NO STATION BUSY LAMP	IB	N	9	M			3
WITH STATION BUSY LAMP	IB	L2**	9	M	G* TO N	G* TO L2*	# L2 TO L1* ISSUE NO.

Figure 5: Circuit Label, Model 2565 Types 40M, 41M, 40R (Sheet 1 of 2)

2565()40,41 TYPE TELEPHONE CIRCUIT

TEL CODE	KEY FEATURES SEE NOTE 4	COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 8)																								
		BL-WH	WH-BL	OR-WH	WH-OR	GN-WH	WH-GN	BN-WH	WH-BN	SL-WH	WH-SL	BL-RD	RD-BL	OR-RD	RD-OR	GN-RD	RD-GN	BN-RD	RD-BN	SL-RD	RD-SL	BL-BK	BK-BL	OR-BK	BK-OR	GN-BK
2565 X(BA)		IR	IT	IB	IH	LI	LG	2R	2T	DD*	2H	L2	LG	3R	3T	DD*	3H	L3	LG	4R	4T	DD*	4H	L4	LG	5R
40/41 M	HPPP ⁵ P ⁵																									

COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 8)																								
BK-GN	BN-BK	BK-BN	SL-BK	BL-VI	VI-BL	OR-VI	VI-OR					BN-VI	VI-BN	GN-VI	VI-GN	YL-BN	SL-VI	BN-YL	SL-YL	YL-BL	BL-YL	YL-BL		
5T	DD*	5H	L5	LG	ER	ET	EB	EH	LH	LG	3	4	DD*	DD*	DD*	DD	L2	DD*	DD*	SG	RR	A	5	6

TERMINAL ON NETWORK

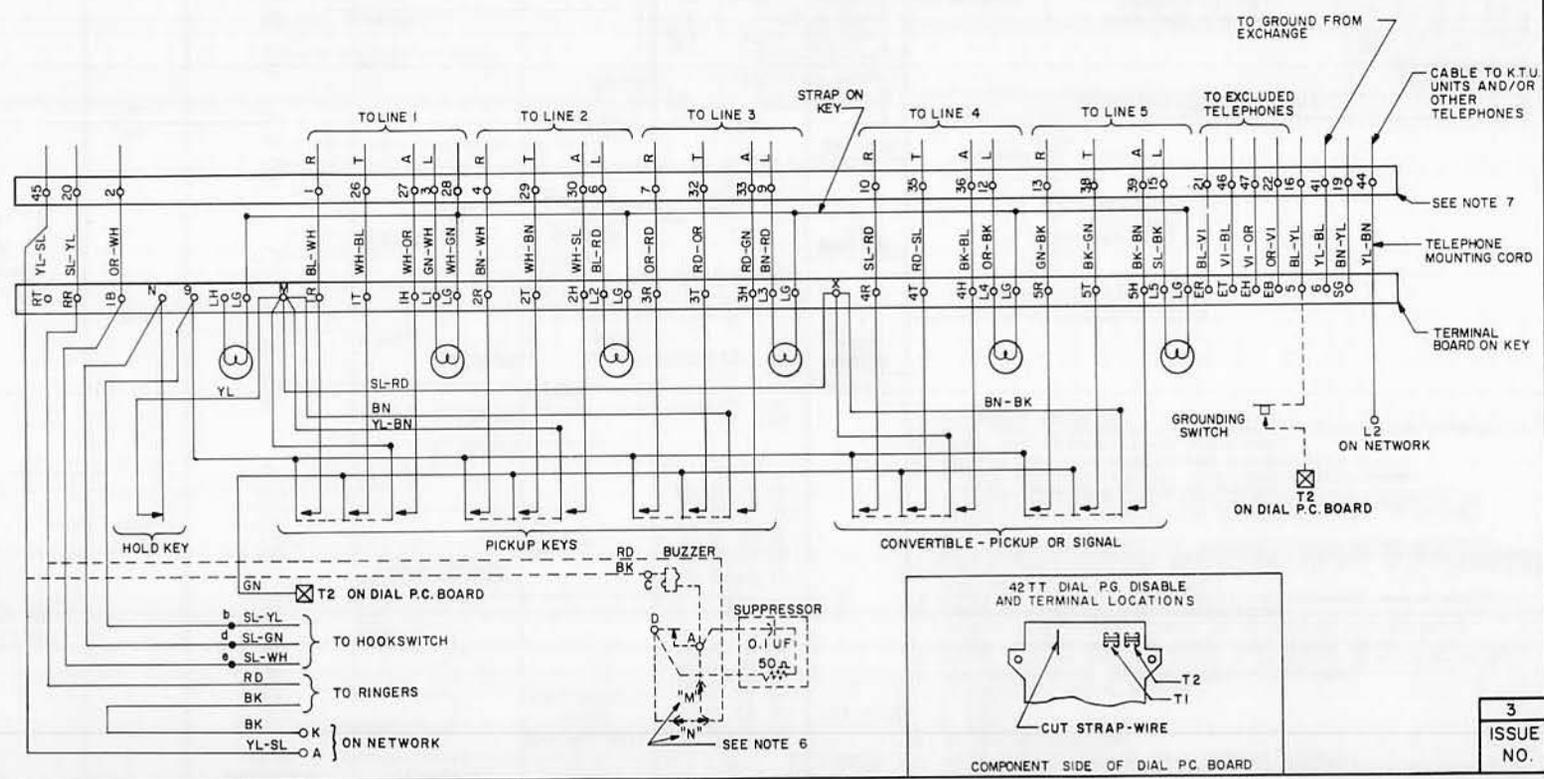


Figure 5: Circuit Label, Model 2565 Types 40M, 41M, 40R (Sheet 2 of 2)

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2565** (BA) 42/46 TYPE TELEPHONE CIRCUIT

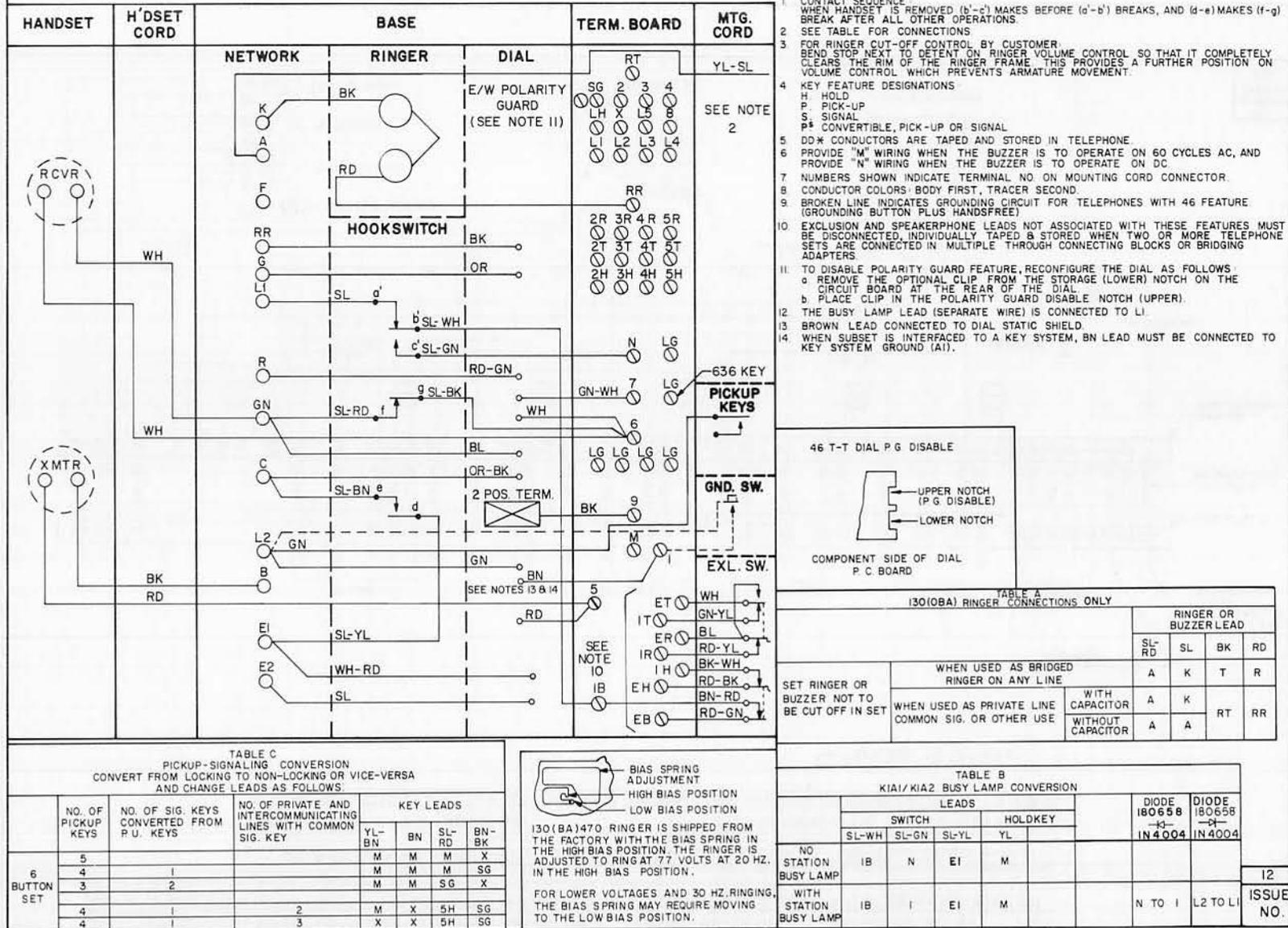


Figure 6: Circuit Label, Model 2565 Types 42, 46 (Sheet 1 of 2)

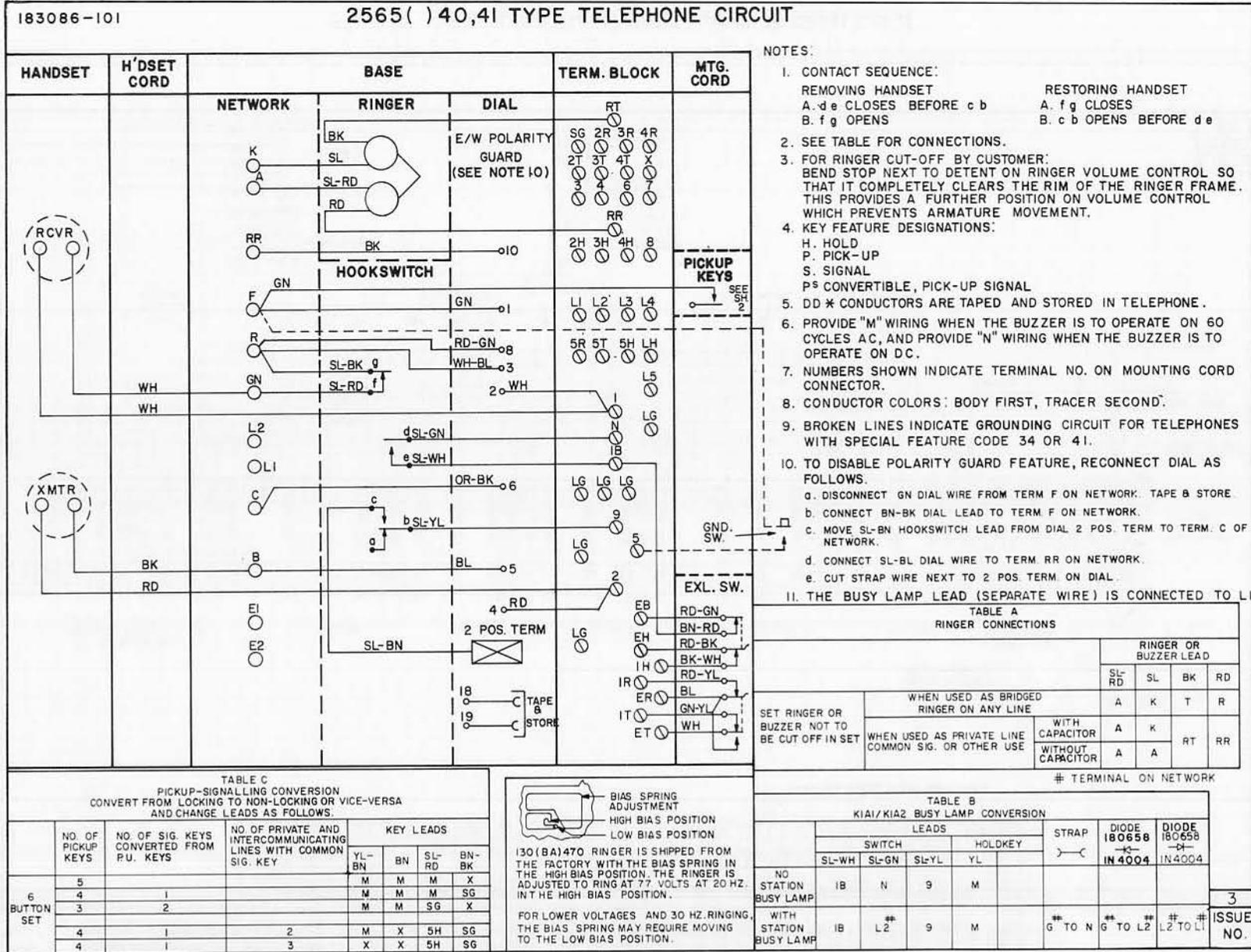


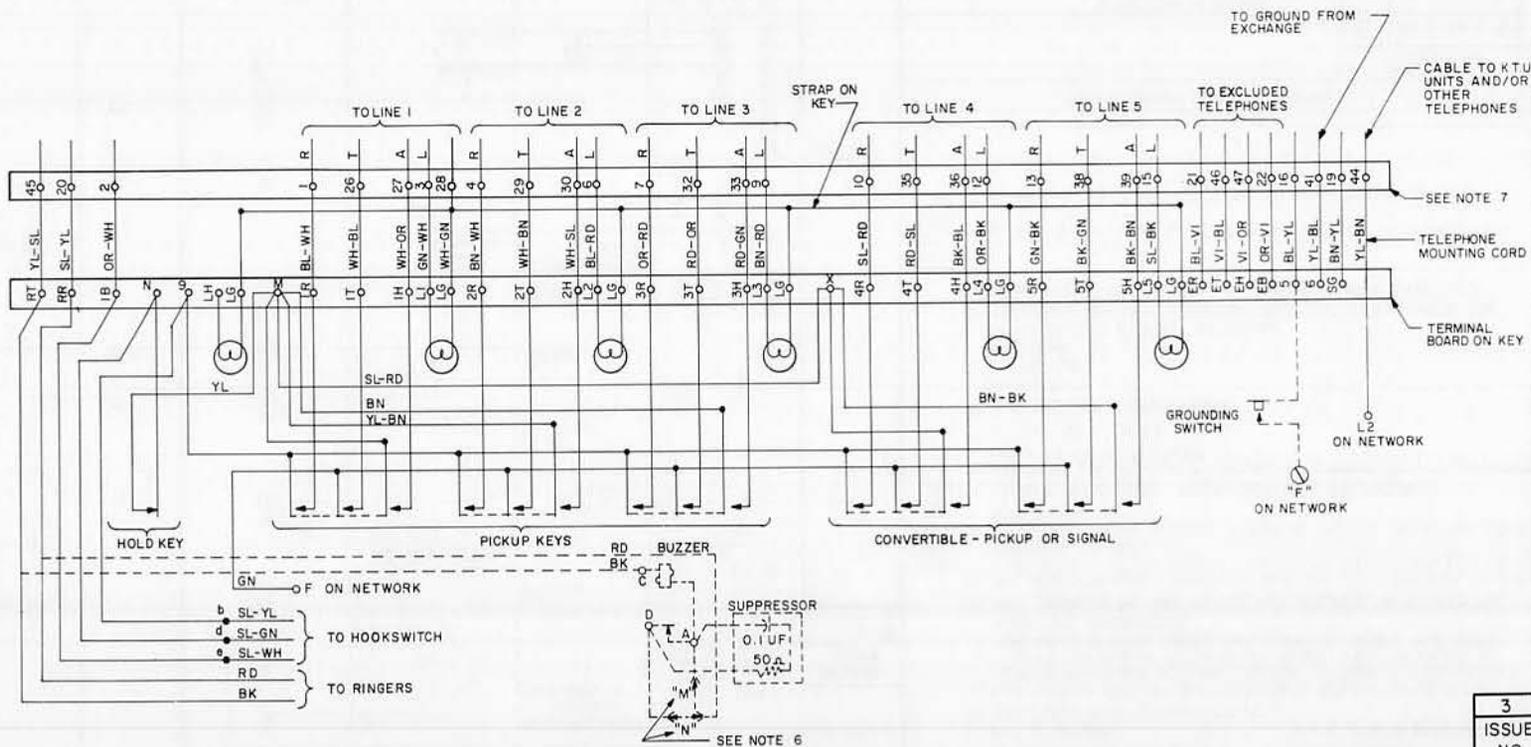
Figure 7: Circuit Label, Model 2565 Type 41R (Sheet 1 of 2)

2565()40,41 TYPE TELEPHONE CIRCUIT

TEL CODE	KEY FEATURES SEE NOTE 4	COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 8)																								
		BL-WH	OR-WH	GN-WH	BN-WH	SL-WH	WH-BL	OR-RD	RD-GN	RD-BN	SL-RD	RD-BL	BK-OR	GN-BK	WH-BL	OR-RD	RD-GN	RD-BN	SL-RD	RD-BL	BK-OR	GN-BK				
2565 XX(BA)		IR	IT	IB	IH	LI	LG	2R	2T	DD*	2H	L2	LG	3R	3T	DD*	3H	L3	LG	4R	4T	DD*	4H	L4	LG	5R
40/41 M	HPPP ⁵ P ⁵ P ⁵																									

COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 8)																								
BK-GN	BN-BK	SL-BK	BL-VI	VI-BL	OR-VI					BN-VI	VI-BN	GN-VI	VI-GN	YL-BN	SL-VI	VI-SL	BN-YL	SL-YL	YL-BL	YL-BL				
5T	DD*	5H	L5	LG	ER	ET	EB	EH	LH	LG	3	4	DD*	DD*	DD*	DD	L2	DD*	DD*	SG	RR	RT	5	6

TERMINAL ON NETWORK

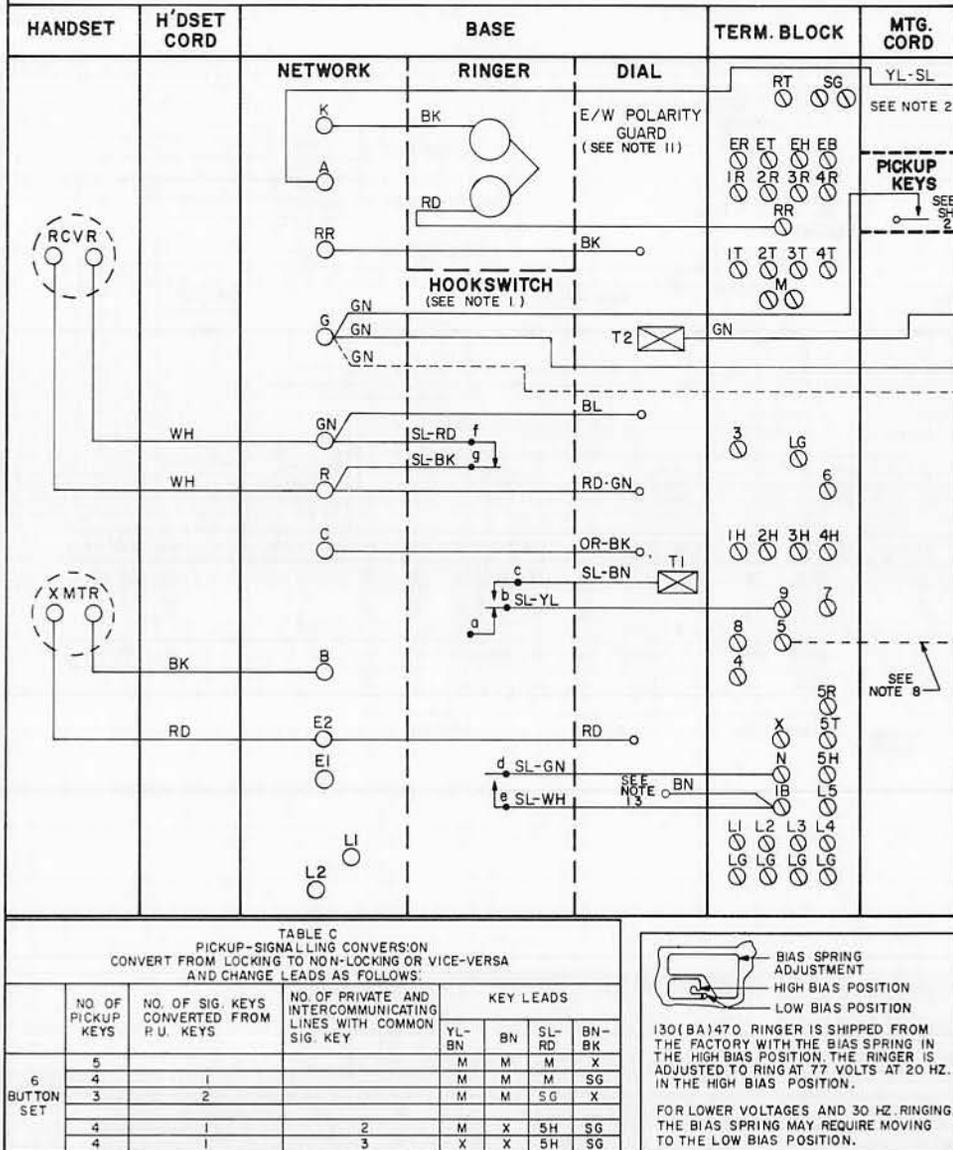


3
ISSUE
NO.

Figure 7: Circuit Label, Model 2565 Type 41R (Sheet 2 of 2)

186286-101

2566()40, 41 TYPE TELEPHONE CIRCUIT



- NOTES:
- CONTACT SEQUENCE
 REMOVING HANDSET A d e CLOSES BEFORE c b
 RESTORING HANDSET A f g CLOSES
 B f g OPENS
 B c b OPENS BEFORE d e
 - SEE TABLE FOR CONNECTIONS.
 - FOR RINGER CUT OFF BY CUSTOMER: BEND STOP NEXT TO DETENT ON RINGER VOLUME CONTROL SO THAT IT COMPLETELY CLEARS THE RIM OF THE RINGER FRAME. THIS PROVIDES A FURTHER POSITION ON VOLUME CONTROL WHICH PREVENTS ARMATURE MOVEMENT.
 - DD* CONDUCTORS ARE TAPED AND STORED IN TELEPHONE.
 - PROVIDE "M" WIRING WHEN THE BUZZER IS TO OPERATE ON 60 CYCLES AC, AND PROVIDE "N" WIRING WHEN THE BUZZER IS TO OPERATE ON DC.
 - NUMBERS SHOWN INDICATE TERMINAL NO. ON MOUNTING CORD CONNECTOR.
 - CONDUCTOR COLORS: BODY FIRST, TRACER SECOND.
 - BROKEN LINE INDICATES GROUNDING CIRCUIT FOR TELEPHONES WITH 34 OR 41 FEATURE.
 - * TAPE AND STORE.
 - KEY FEATURE DESIGNATIONS:
 H - HOLD
 P - PICK-UP
 S - SIGNAL
 P S CONVERTIBLE, PICK-UP SIGNAL
 - TO DISABLE POLARITY GUARD FEATURE CUT STRAP-WIRE ON COMPONENT SIDE OF DIAL P.C. BOARD. (SEE SHEET 2).
 - THE BUSY LAMP LEAD (SEPERATE WIRE) IS CONNECTED TO L1.
 - BROWN LEAD CONNECTED TO DIAL STATIC SHIELD.

TABLE A
130(0BA) RINGER CONNECTIONS ONLY

SET RINGER OR BUZZER NOT TO BE CUT OFF IN SET	WHEN USED AS BRIDGED RINGER ON ANY LINE				WHEN USED AS PRIVATE LINE COMMON SIG. OR OTHER USE			
	SL-RD	SL	BK	RD	WITH CAPACITOR	WITHOUT CAPACITOR	RT	RR
	A	K	T	R	A	A		

‡ TERMINAL ON NETWORK

TABLE C
PICKUP-SIGNALING CONVERSION
CONVERT FROM LOCKING TO NON-LOCKING OR VICE-VERSA AND CHANGE LEADS AS FOLLOWS:

	NO. OF PICKUP KEYS	NO. OF SIG. KEYS CONVERTED FROM P.U. KEYS	NO. OF PRIVATE AND INTERCOMMUNICATING LINES WITH COMMON SIG. KEY	KEY LEADS			
				YL-BN	BN	SL-RD	BN-BK
6 BUTTON SET	5			M	M	M	X
	4	1		M	M	M	SG
	3	2		M	M	SG	X
	4	1	2	M	X	5H	SG
	4	1	3	X	X	5H	SG

BIAS SPRING ADJUSTMENT
 HIGH BIAS POSITION
 LOW BIAS POSITION

130(0BA)470 RINGER IS SHIPPED FROM THE FACTORY WITH THE BIAS SPRING IN THE HIGH BIAS POSITION. THE RINGER IS ADJUSTED TO RING AT 77 VOLTS AT 20 HZ. IN THE HIGH BIAS POSITION.

FOR LOWER VOLTAGES AND 30 HZ. RINGING, THE BIAS SPRING MAY REQUIRE MOVING TO THE LOW BIAS POSITION.

TABLE B
KIA1/KIA2 BUSY LAMP CONVERSION

	LEADS				STRAP	DIODE 180658 IN 4004	DIODE 180658 IN 4004	ISSUE NO
	SWITCH		HOLDKEY					
	SL-WH	SL-GN	SL-YL	YL				
NO STATION BUSY LAMP	1B	N	9	M			3	
WITH STATION BUSY LAMP	1B	L2**	9	M	G# TO N	G# TO L2	# L2 TO L1	

Figure 8: Circuit Label, Model 2566 Types 40, 41 (Sheet 1 of 2)

2566() 40,41 TYPE TELEPHONE CIRCUIT

TEL CODE	KEY FEATURES	COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 7)																								
		BL-WH	OR-WH	WH-GN	WH-BN	WH-SL	BL-RD	OR-RD	GN-RD	RD-BN	SL-RD	RD-SL	BL-BK	BK-OR	GN-BK	WH-BL	OR-WH	WH-GN	WH-BN	WH-SL						
2566**BA	SEE NOTE 10	WH	BL	WH	OR	WH	GN	WH	BN	WH	SL	RD	OR	RD	GN	RD	BN	RD	SL	RD	BL	BK	OR	BK	GN	BK
30/40 M	HPppspsp	IR	IT	IB	IH	LI	LG	2R	2T		2H	L2	LG	3R	3T	DD*	3H	L3	LG	4R	4T	DD*	4H	L4	LG	5R

COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 7)																							
BK-GN	GN-BK	BK-BN	SL-BK							GN-YL	YL-GN						YL-BN		BN-SL	SL-YL	YL-SL	SL-WH	
5T	DD*	5H	L5	LG	ER	ET	EB	EH	DD*	DD*	3	4	7	8	9	RR	L2	L1	N	SG	RR	A	5

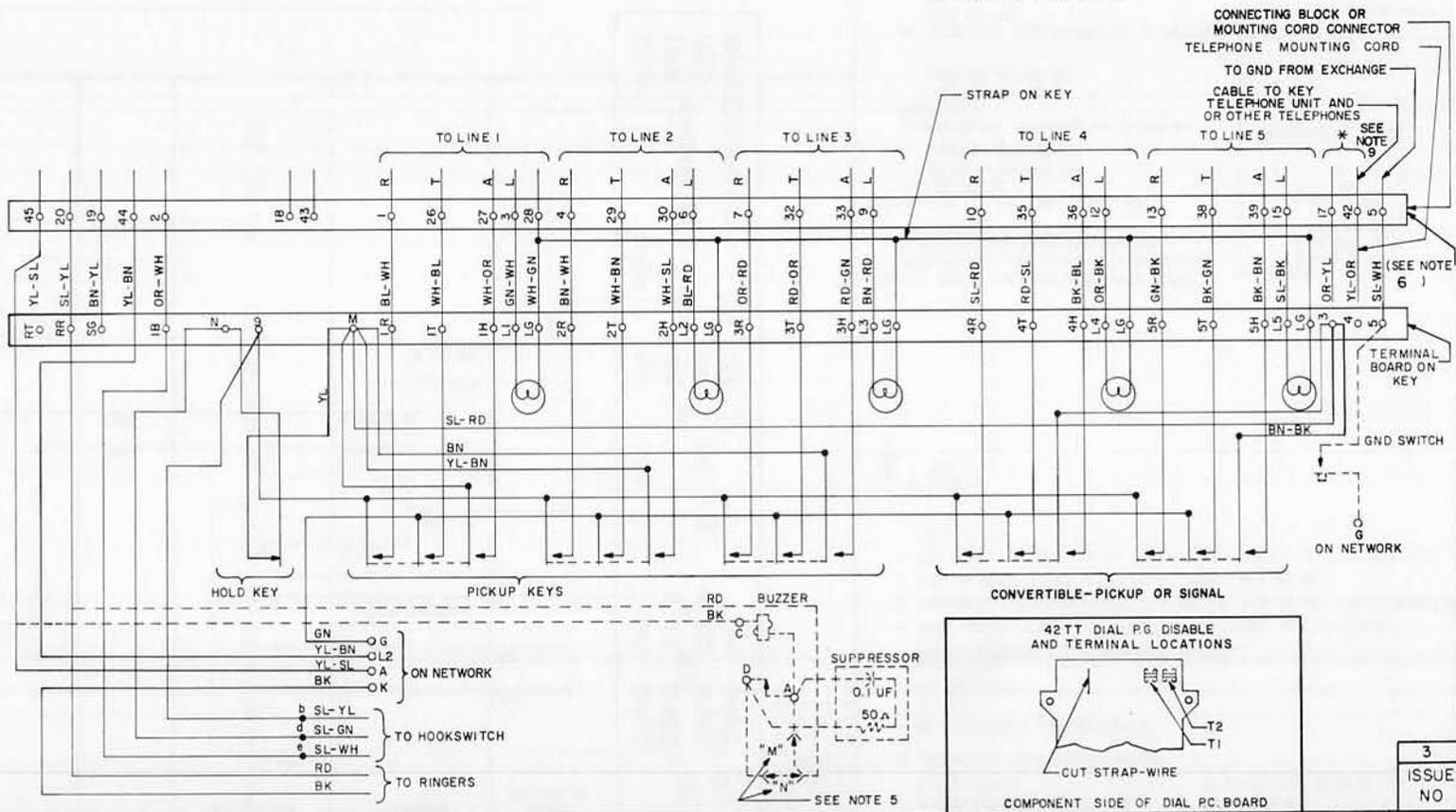


Figure 8: Circuit Label, Model 2566 Types 40, 41 (Sheet 2 of 2)

183151-101

2566(LR) 40T TYPE TELEPHONE CIRCUIT

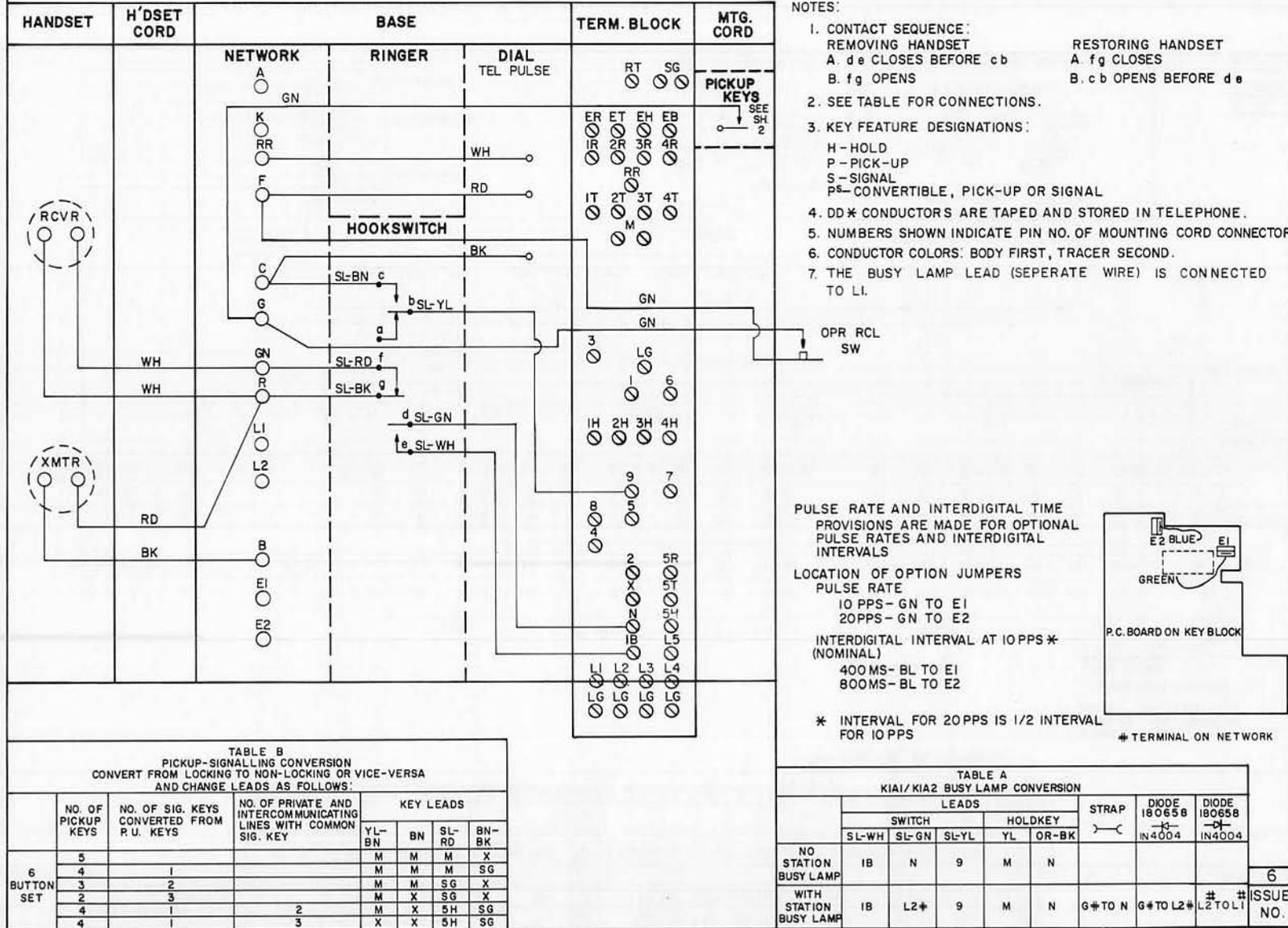
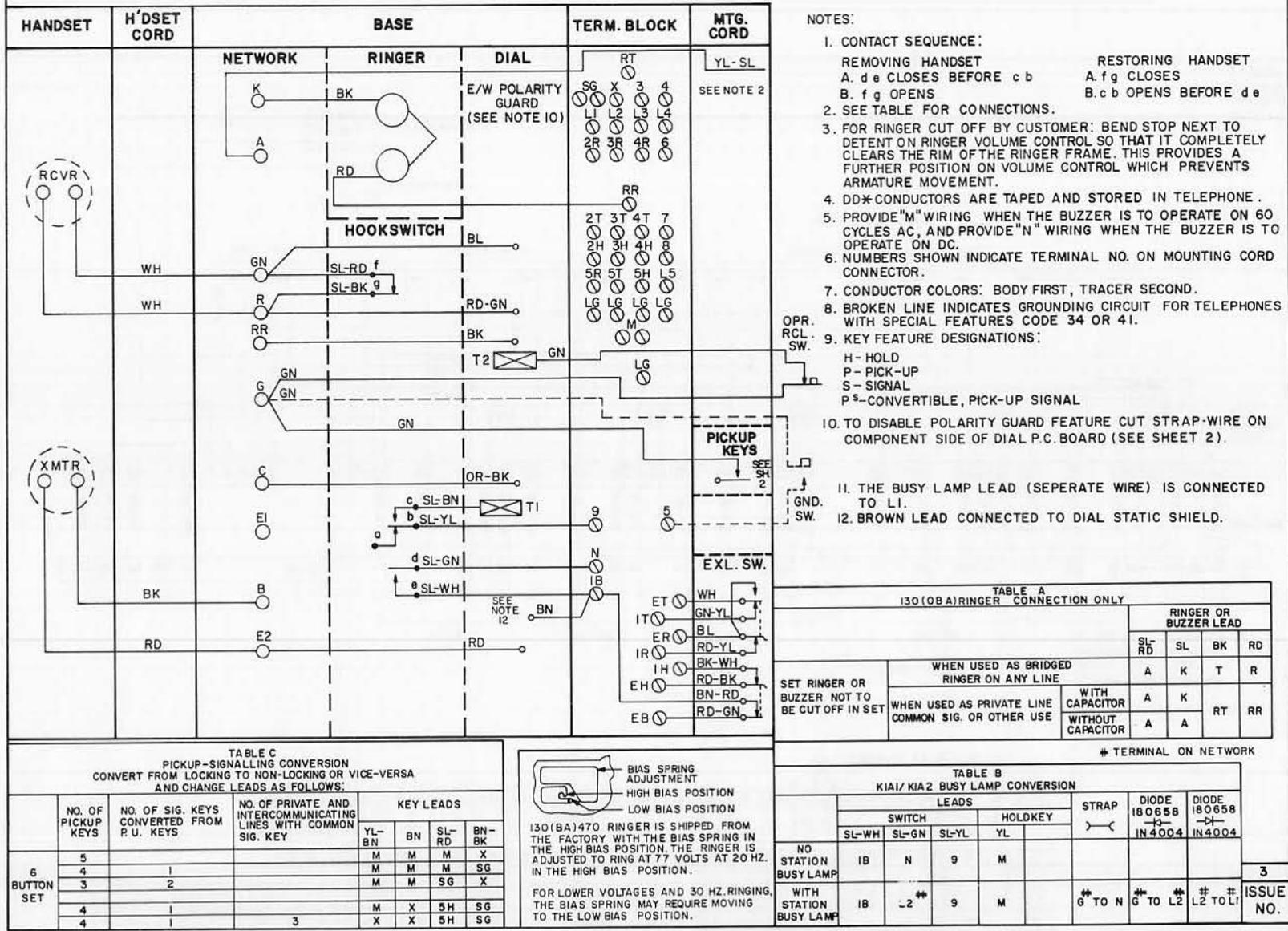


Figure 9: Circuit Label, Model 2566 Type 40T (Sheet 1 of 2)

186284-101

2567()40,41 TYPE TELEPHONE CIRCUIT



- NOTES:
- CONTACT SEQUENCE:
 REMOVING HANDSET
 A. d e CLOSES BEFORE c b
 B. f g OPENS
 RESTORING HANDSET
 A. f g CLOSES
 B. c b OPENS BEFORE d e
 - SEE TABLE FOR CONNECTIONS.
 - FOR RINGER CUT OFF BY CUSTOMER: BEND STOP NEXT TO DETENT ON RINGER VOLUME CONTROL SO THAT IT COMPLETELY CLEARS THE RIM OF THE RINGER FRAME. THIS PROVIDES A FURTHER POSITION ON VOLUME CONTROL WHICH PREVENTS ARMATURE MOVEMENT.
 - DD* CONDUCTORS ARE TAPED AND STORED IN TELEPHONE.
 - PROVIDE "M" WIRING WHEN THE BUZZER IS TO OPERATE ON 60 CYCLES AC, AND PROVIDE "N" WIRING WHEN THE BUZZER IS TO OPERATE ON DC.
 - NUMBERS SHOWN INDICATE TERMINAL NO. ON MOUNTING CORD CONNECTOR.
 - CONDUCTOR COLORS: BODY FIRST, TRACER SECOND.
 - BROKEN LINE INDICATES GROUNDING CIRCUIT FOR TELEPHONES WITH SPECIAL FEATURES CODE 34 OR 41.
 - KEY FEATURE DESIGNATIONS:
 H - HOLD
 P - PICK-UP
 S - SIGNAL
 P⁵ - CONVERTIBLE, PICK-UP SIGNAL
 - TO DISABLE POLARITY GUARD FEATURE CUT STRAP-WIRE ON COMPONENT SIDE OF DIAL P.C. BOARD (SEE SHEET 2).
 - THE BUSY LAMP LEAD (SEPERATE WIRE) IS CONNECTED TO L1.
 - BROWN LEAD CONNECTED TO DIAL STATIC SHIELD.

TABLE C
PICKUP-SIGNALING CONVERSION
CONVERT FROM LOCKING TO NON-LOCKING OR VICE-VERSA
AND CHANGE LEADS AS FOLLOWS:

	NO. OF PICKUP KEYS	NO. OF SIG. KEYS CONVERTED FROM P. U. KEYS	NO. OF PRIVATE AND INTERCOMMUNICATING LINES WITH COMMON SIG. KEY	KEY LEADS			
				YL-BN	BN	SL-RD	BN-BK
6 BUTTON SET	5			M	M	M	X
	4	1		M	M	M	SG
	3	2		M	M	SG	X
	4	1		M	X	5H	SG
	4	1	3	X	X	5H	SG

BIAS SPRING ADJUSTMENT
 HIGH BIAS POSITION
 LOW BIAS POSITION

130(BA)470 RINGER IS SHIPPED FROM THE FACTORY WITH THE BIAS SPRING IN THE HIGH BIAS POSITION. THE RINGER IS ADJUSTED TO RING AT 77 VOLTS AT 20 HZ. IN THE HIGH BIAS POSITION.

FOR LOWER VOLTAGES AND 30 HZ. RINGING, THE BIAS SPRING MAY REQUIRE MOVING TO THE LOW BIAS POSITION.

TABLE A
130(OBA)RINGER CONNECTION ONLY

SET RINGER OR BUZZER NOT TO BE CUT OFF IN SET	WHEN USED AS BRIDGED RINGER ON ANY LINE		RINGER OR BUZZER LEAD				
	WHEN USED AS PRIVATE LINE COMMON SIG. OR OTHER USE	WITH CAPACITOR	WITHOUT CAPACITOR	SL-RD	SL	BK	RD
		A	K	T	R		
		A	A	RT	RR		

TABLE B
K1A1/ K1A2 BUSY LAMP CONVERSION

	LEADS				STRAP	DIODE 180658 IN 4004	DIODE 180658 IN 4004	ISSUE NO.
	SWITCH	HOLDKEY	SL-WH	SL-GN				
NO STATION BUSY LAMP	IB	N	9	M				3
WITH STATION BUSY LAMP	IB	L2**	9	M	** TO N	** TO L2	# L2 TO L1	ISSUE NO.

Figure 10: Circuit Label, Model 2567 Types 40M, 41M (Sheet 1 of 2)

183149-101

2567()40,41 TYPE TELEPHONE CIRCUIT

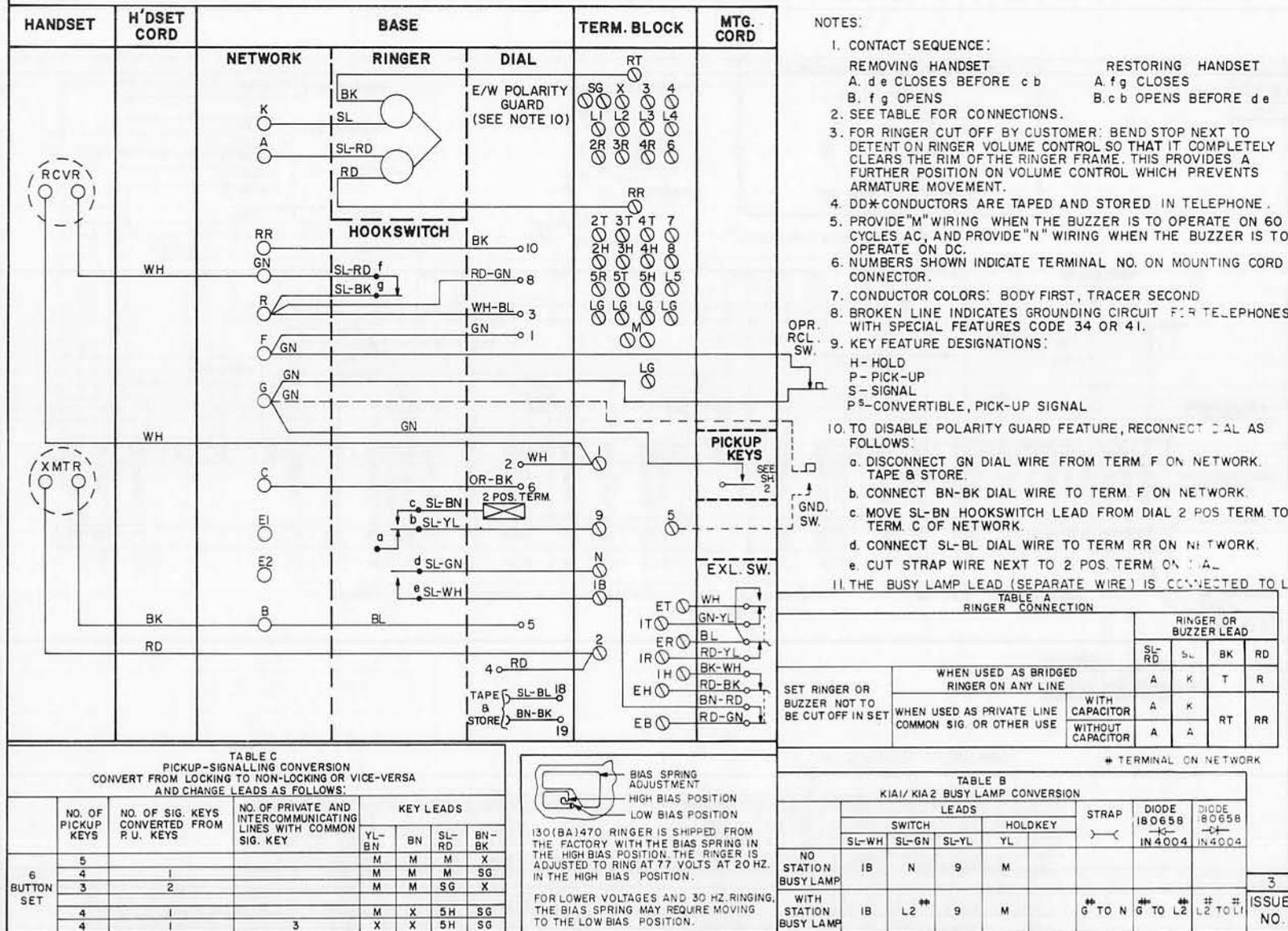
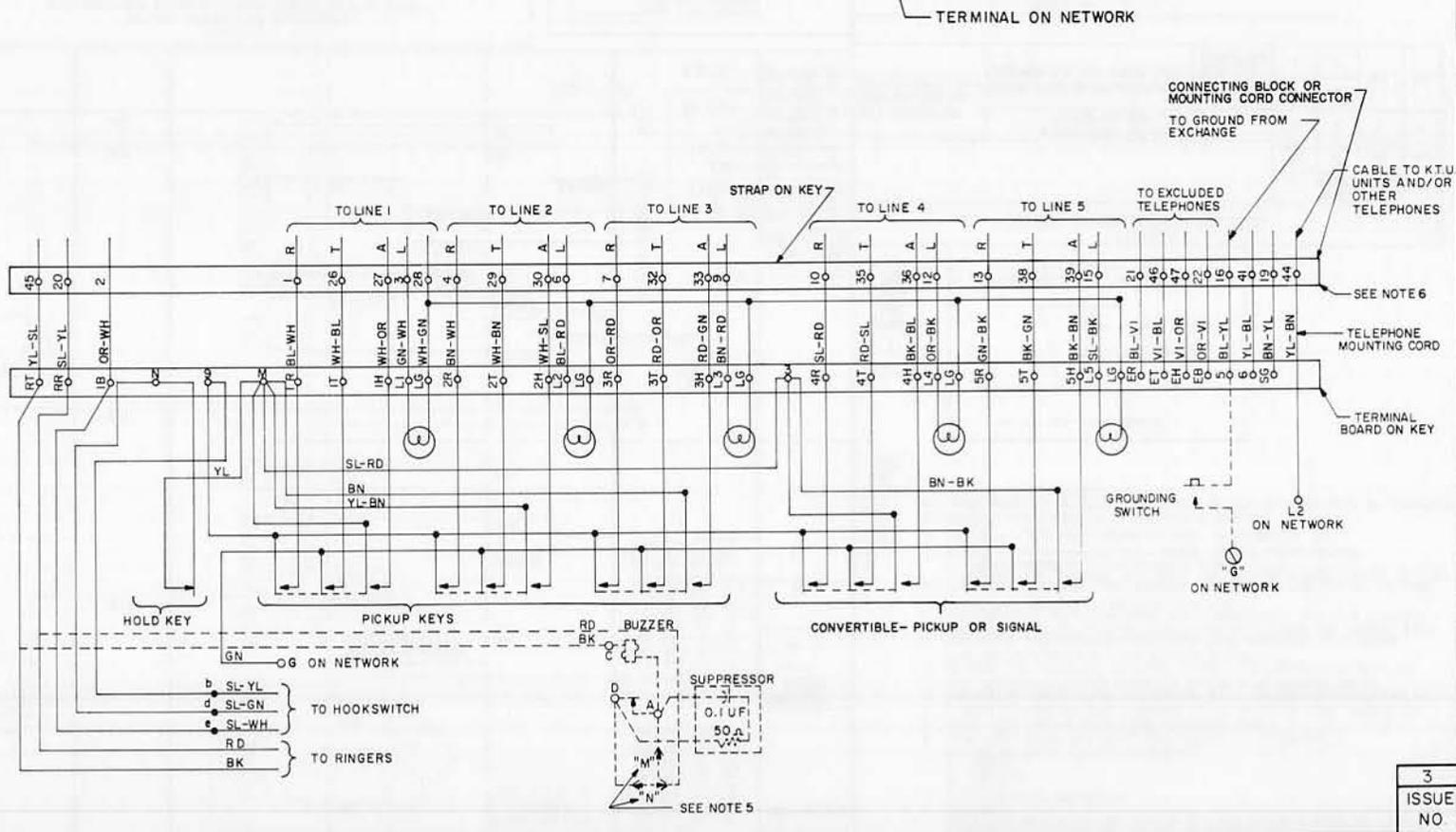


Figure 11: Circuit Label, Model 2567 Types 40R, 41R (Sheet 1 of 2)

2567 () 40,41 TYPE TELEPHONE CIRCUIT

TEL CODE	KEY FEATURES	COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 7)																								
		BL-WH	WH-BL	OR-WH	WH-OR	GN-WH	WH-GN	BN-WH	WH-BN	SL-WH	WH-SL	BL-WH	OR-RD	RD-OR	GN-RD	RD-GN	BN-RD	RD-BN	SL-RD	RD-SL	BL-BK	BK-OR	GN-BK			
2567 * * (BA)	SEE NOTE 9	IR	IT	IB	IH	LI	LG	2R	2T	DD*	2H	L2	LG	3R	3T	DD*	3H	L3	LG	4R	4T	DD*	4H	L4	LG	5R
40/41 M	HPPP ^s p ^s p ^s																									

COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 7)																									
BK-GN	GN-BK	BK-BN	BN-BK	SL-BK	BL-VI	VI-BL	OR-VI	VI-OR						BN-VI	VI-BN	GN-VI	VI-GN	YL-BN	BN-YL	SL-VI	VI-SL	BN-YL	YL-BN	BL-YL	YL-BL
5 T	DD*	5 H	L5	LG	ER	ET	EB	EH	LH	LG	3	4	DD*	DD*	DD*	DD	L2	DD*	DD*	SG	RR	RT	5	6	



3
ISSUE
NO.

Figure 11: Circuit Label, Model 2567 Types 40R, 41R (Sheet 2 of 2)

183148-101

2567 ** (BA) 42/46 TYPE TELEPHONE CIRCUIT

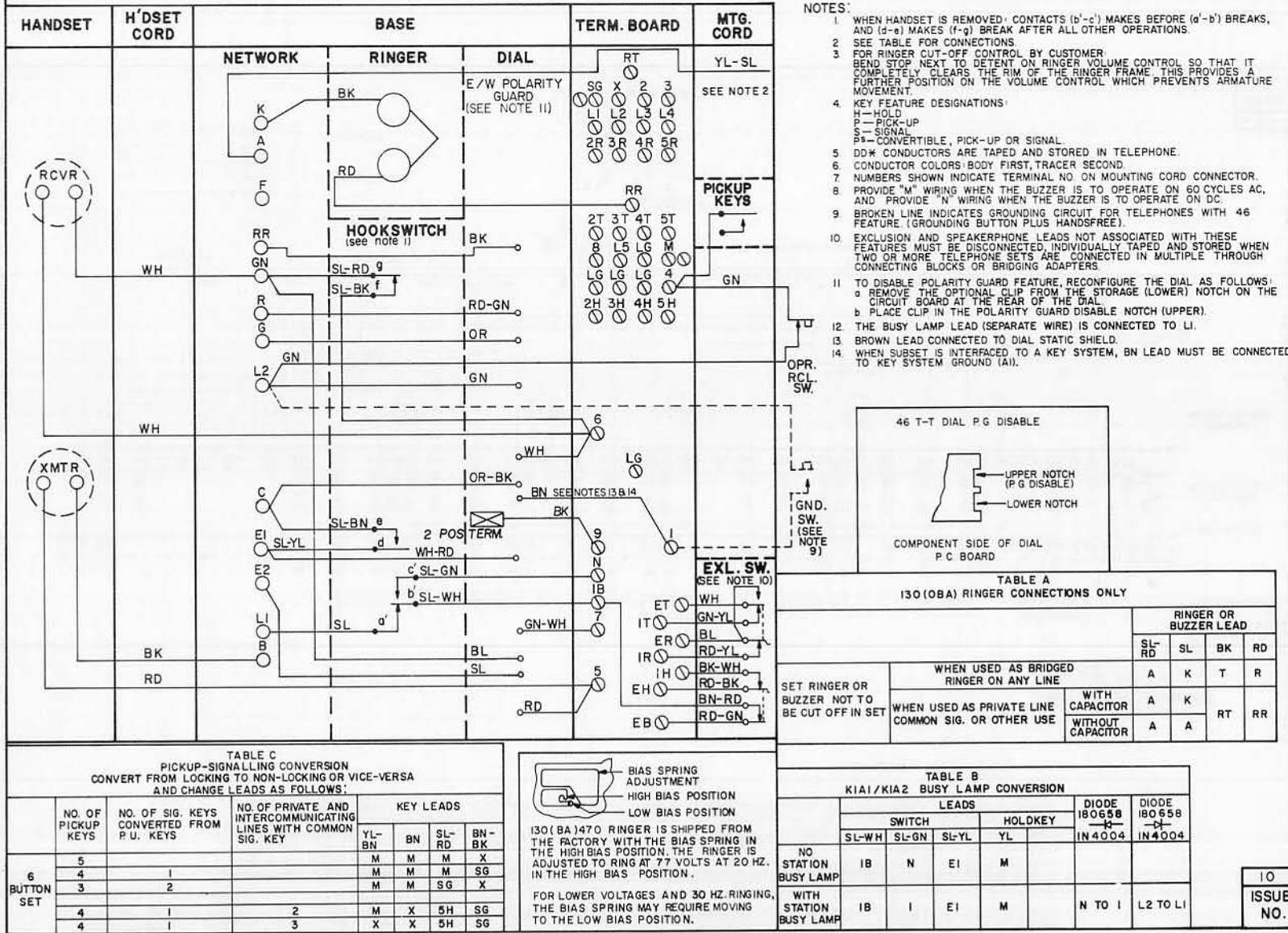


Figure 12: Circuit Label, Model 2567 Types 42, 46 (Sheet 1 of 2)

2567 *(BA)42/46 TYPE TELEPHONE CIRCUIT

TEL CODE	KEY FEATURES	COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 6)																									
		BL-WH	WH-BL	OR-WH	WH-OR	GN-WH	WH-GN	BN-WH	WH-BN	SL-WH	WH-SL	BL-RD	RD-BL	OR-RD	RD-OR	GN-RD	RD-GN	BN-RD	RD-BN	SL-RD	RD-SL	BL-BK	BK-BL	OR-BK	BK-OR	GN-BK	BK-GN
2567 *(BA)	SEE NOTE 4	WH	BL	WH	OR	WH	GN	WH	BN	SL	WH	BL	RD	OR	RD	GN	RD	BN	RD	SL	RD	BL	BK	OR	BK	GN	BK
42/46 M	HPPP5P5	IR	IT	IB	IH	LI	LG	2R	2T	DD*	2H	L2	LG	3R	3T	DD*	3H	L3	LG	4R	4T	DD*	4H	L4	LG	5R	

COLOR OF MOUNTING CORD CONDUCTORS TO TERMINALS ON KEY AND LAMP TERMINAL STRIP (NOTE 6)																										
BK-GN	GN-BK	BK-BN	BN-BK	SL-BK	BK-SL	BL-VI	VI-BL	OR-VI	VI-OR	YL-OR	OR-YL	GN-YL	YL-GN	BN-VI	VI-BN	GN-VI	VI-GN	YL-BN	BN-YL	SL-VI	VI-SL	BL-YL	YL-BL	YL-VI	VI-YL	YL-BL
5T	DD*	5H	L5	LG	ER	ET	EB	EH	DD*	DD*	DD*	DD*	7	8	EI	G	I	L1	N	SG	RR	A	DD*	2		

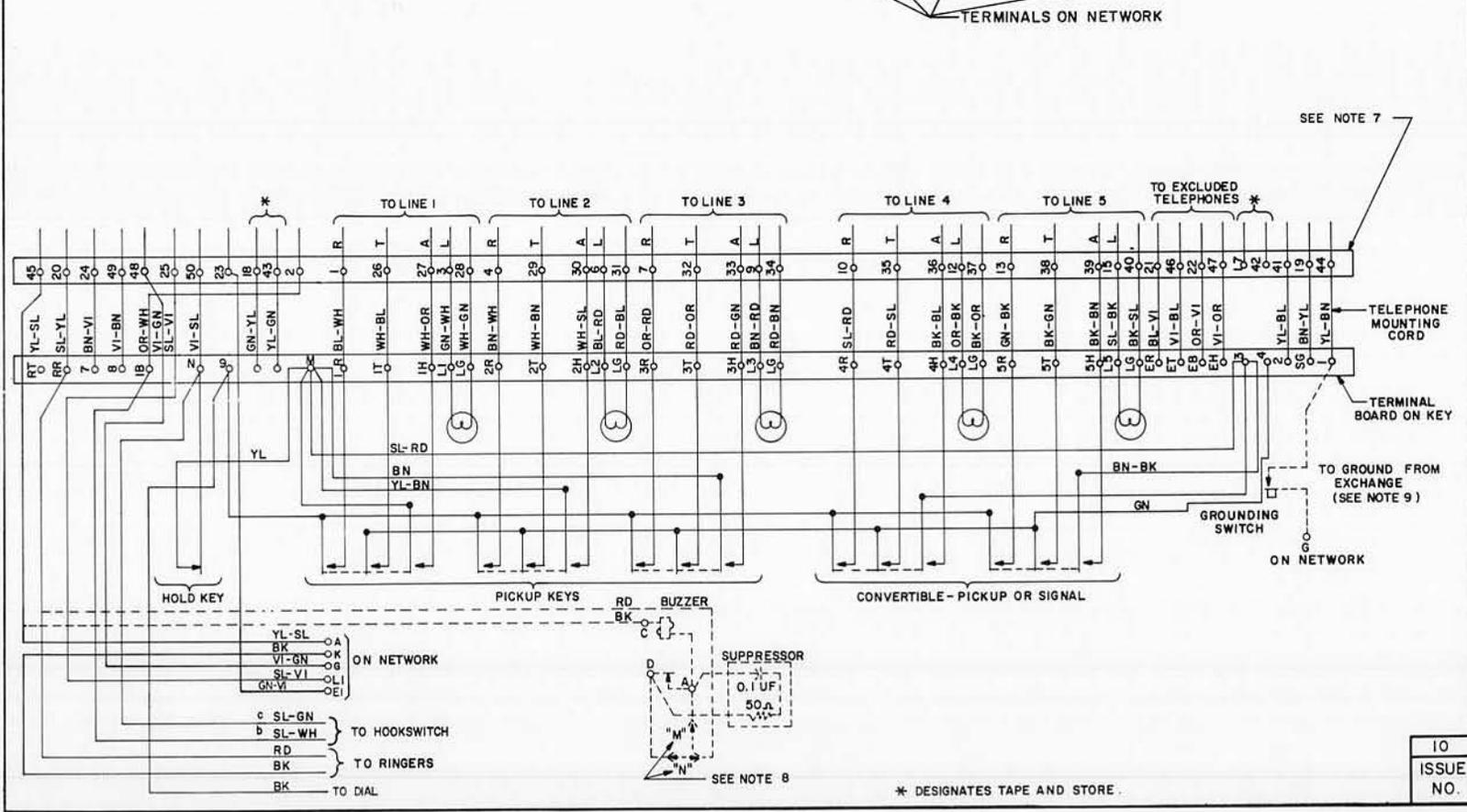


Figure 12: Circuit Label, Model 2567 Types 42, 46 (Sheet 2 of 2)