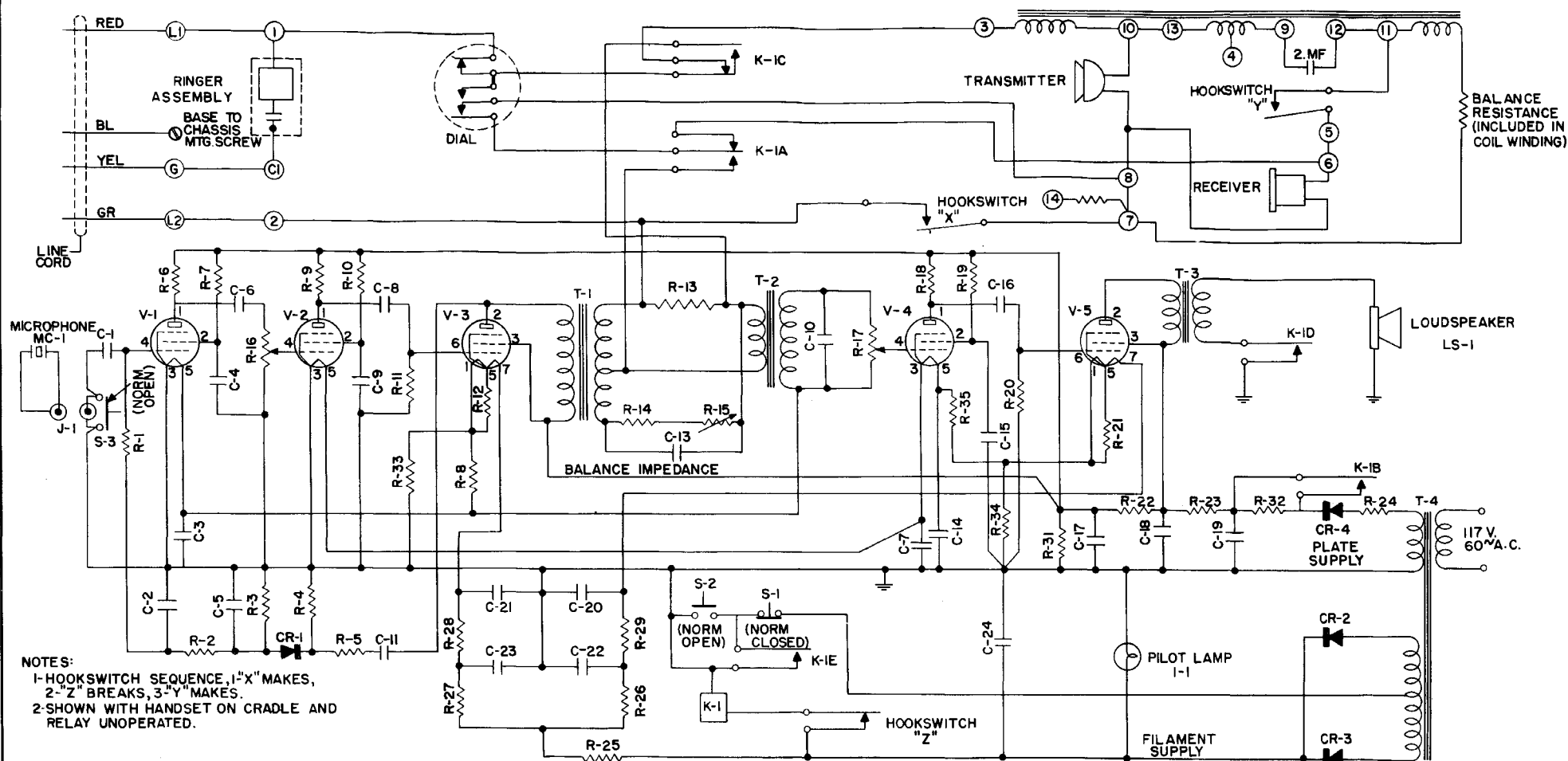


STROMBERG-CARLSON CO. SCHEMATIC CIRCUIT FOR 1583 TELEPHONE WITH STANDARD DIAL



NOTES:
 1-HOOKSWITCH SEQUENCE, 1-"X" MAKES,
 2-"Z" BREAKS, 3-"Y" MAKES.
 2-SHOWN WITH HANDSET ON CRADLE AND
 RELAY UNOPERATED.

SYMBOL	DESCRIPTION	PART NO.
C-1, C-4, C-9, C-15	CAPACITOR-.04 MFD.-200V.	GT2002
C-2, C-5	CAPACITOR-.1MFD.-200V.	GT2014
C-3, C-7, C-14	CAPACITOR-.100MFD.-6V.	GT2010
C-6, C-8, C-11, C-16	CAPACITOR-.005MFD.-600V.	GT2001
C-10	CAPACITOR-.002MFD.-400V.	GT2015
C-13	CAPACITOR-.15MFD.-200V.	GT2017
C-17	CAPACITOR-.50MFD.-50V.	GT2012
C-18, C-19	CAPACITOR-.100MFD.-150V.	GT2008
C-20, C-21	CAPACITOR-.500MFD.-6V.	GT2009
C-22, C-23	CAPACITOR-.100MFD.-25V.	GT2011
C-24	CAPACITOR-.150MFD.-50V.	GT2007
C-25	CAPACITOR-.05MFD.-400V.	GT2016
CR-1	DIODE-TYPE IN66	GT5071
CR-2, CR-3	RECTIFIER-GERMANIUM IN91	GT5070
CR-4	RECTIFIER-130V.A.C.	GT5029
I-1	PILOT LAMP-G.E. 1819	GT5077

SYMBOL	DESCRIPTION	PART NO.
J-1	JACK	GT5083
K-1	RELAY-500 OHM COIL	GT5124
LS-1	LOUDSPEAKER-12 OHM VOICE COIL	GT5084
MC-1	MICROPHONE	GT5082
R-1, R-3, R-4	RESISTOR-1 MEG.	GT3015
R-2, R-11, R-20	RESISTOR-2.2 MEG.	GT3006
R-5	RESISTOR-100 K OHM	GT3004
R-6, R-9, R-18	RESISTOR-330 K OHM	GT3014
R-7, R-10, R-19	RESISTOR-4.7 MEG.	GT3016
R-8	RESISTOR-120 OHM	GT3022
R-12, R-14, R-21	RESISTOR-270 OHM	GT3000
R-13	RESISTOR-2.2 K OHM	GT3012
R-15	POT. 1K OHM (LINE BALANCE)	GT5089
R-16	POT. 2 MEG. (MIC. GAIN)	GT5088
R-17	POT. 5 MEG. (VOLUME)	GT5119
R-22, R-31	RESISTOR-15 K OHM	GT3002

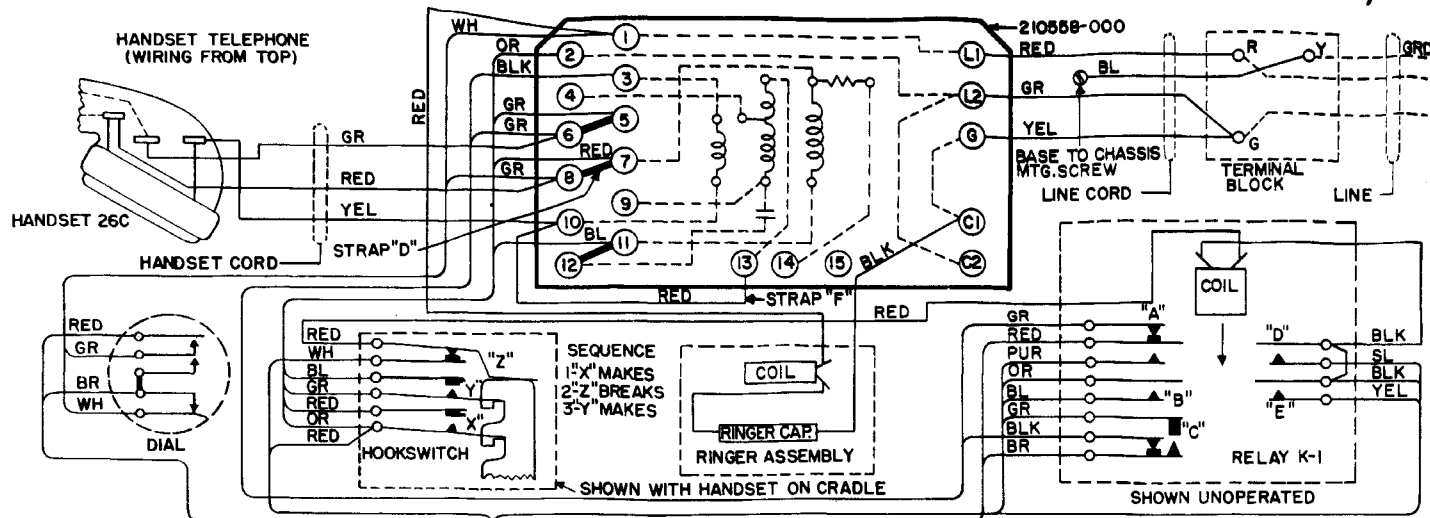
SYMBOL	DESCRIPTION	PART NO.
R-23	RESISTOR-33 K OHM, 2W. 10%	GT3020
R-24, R-33, R-34	RESISTOR-100 OHM	GT3011
R-25	RESISTOR-51 OHM, 2W. 5%	GT3017
R-27, R-28	RESISTOR-180 OHM, 2W. 5%	GT3019
R-26, R-29	RESISTOR-160 OHM, 2W. 5%	GT3018
R-32	RESISTOR-33 K OHM	GT3021
R-35	RESISTOR-68 OHM	GT3023
S-1	SWITCH-POWER OFF	GT5079
S-2	SWITCH-POWER ON	GT5078
S-3	SWITCH-MIC. CUTOFF	GT5080
T-1	TRANS.-MIC. CHANNEL OUTPUT	GT1017
T-2	TRANS.-LDSPKR. CH. INPUT	GT1016
T-3	TRANS.-LDSPKR. OUTPUT	GT1015
T-4	TRANS.-POWER	GT1015
V-1, V-2, V-4	VACUUM TUBE CK-512 AX	GT4004
V-3, V-5	VACUUM TUBE-3V4	GT4002

ALL RESISTORS 1/2 WATT, 10% UNLESS OTHERWISE NOTED.

TCI Library: www.telephonecollectors.info

SEE REVERSE SIDE FOR WIRING DIAGRAM

STROMBERG-CARLSON CO. WIRING AND CONNECTIONS FOR BRIDGED RINGING FOR 1583 AW/D TELEPHONE (COMMON BATTERY)



PARTY	DIVIDED CIRCUIT RINGING					
	CONNECTIONS AT TERMINAL BLOCK					
	LINE CORD			LINE		
	RED	GR	YEL	RING	TIP	GRD
RING	R	G	Y	R	G	Y
TIP	G	R	Y	R	G	Y

TAPPING OF GONGS
IN BRIDGED RINGING WHERE IT IS NECESSARY TO PREVENT
TAPPING OF GONGS ON BIASED RINGERS WHILE DIALING,
POSITIVE BATTERY SHOULD BE CONNECTED TO L2 AND
THE BIAS SPRING TENSION ADJUSTED AS REQUIRED.

DIAL TO MANUAL CONVERSION
IF DIAL IS NOT REQUIRED RE-WIRING SHALL BE AS FOLLOWS:
1-REMOVE GREEN,WHITE & RED LEADS FROM DIAL & TAP BACK.
2-REMOVE BROWN LEAD FROM DIAL & CONNECT TO TERMINAL I.
IF DIAL IS REQUIRED ORDER: 1-NO. 212448-000ADAPTOR, 1-NO.
212450-000 DIAL BLANK ASSEMBLY & 2-NO. 208248-000SCREWS.

REDUCED SIDETONE ON SHORT LOOPS
(200 OHMS D.C.RESISTANCE OR LESS)

CONNECT STRAP "D" BETWEEN 8 AND 9.
CONNECT STRAP "F" BETWEEN 10 AND 14.
MOVE RED OF HOOKSWITCH FROM 7 TO 9.
CONNECT BLUE OF HOOKSWITCH TO 4.

VOLTAGE CHARTS

TUBE			TERMINAL NO.'S.									
NO	TYPE	PURPOSE	1	2	3	4	5	6	7			
V1	CX52AX	MIC. PRE. AMP.	30	65	0	†	5				C-17	40
V2	CX52AX	MIC. AMP.	28	45	0	*	.8				C-18	85
V3	3V4	MIC. CHANNEL OUTPUT	2	539	39	0	535	0	45		C-19	128
											C-20	5.6
V4	CX52AX	LOUDSPEAKER PRE. AMP.	28	7	.8	5	1.6				C-21	4.5
											C-22, C-23	12.5
											C-24	24
V5	3V4	LOUDSPEAKER OUTPUT	3	7886	1.6	4.4	0	55			RELAY	24
											PILOT LAMP	24

† MAY VARY FROM -1 TO -7 VOLTS.

* MAY VARY FROM -.1 TO -.3 VOLTS.

TRANSFORMER RESISTANCES (IN OHMS)				
TRANSF.	PRIMARY		SECONDARY	
T-1 N ₂ 1017	BL - RED	645	BR-WH GR-WH	54 54
T-2 N ₂ 1017	GR-YEL	110	RED-BL	78
T-3 N ₂ 1016	BL - RED	1020	GR-BR	2.5
T-4 N ₂ 1015	BLK-BLK	68	RED-RED BR-BR OR-BR	64 22 11

ALL VALUES MAY VARY $\pm 10\%$

NOTES: (FOR VOLTAGE CHARTS ABOVE.)

1-POWER SUPPLY:117 VOLTS,60 CYCLES.
2-D.C.VOLTAGES MEASURED TO CHASSIS USING VACUUM TUBE
VOLTMETER.

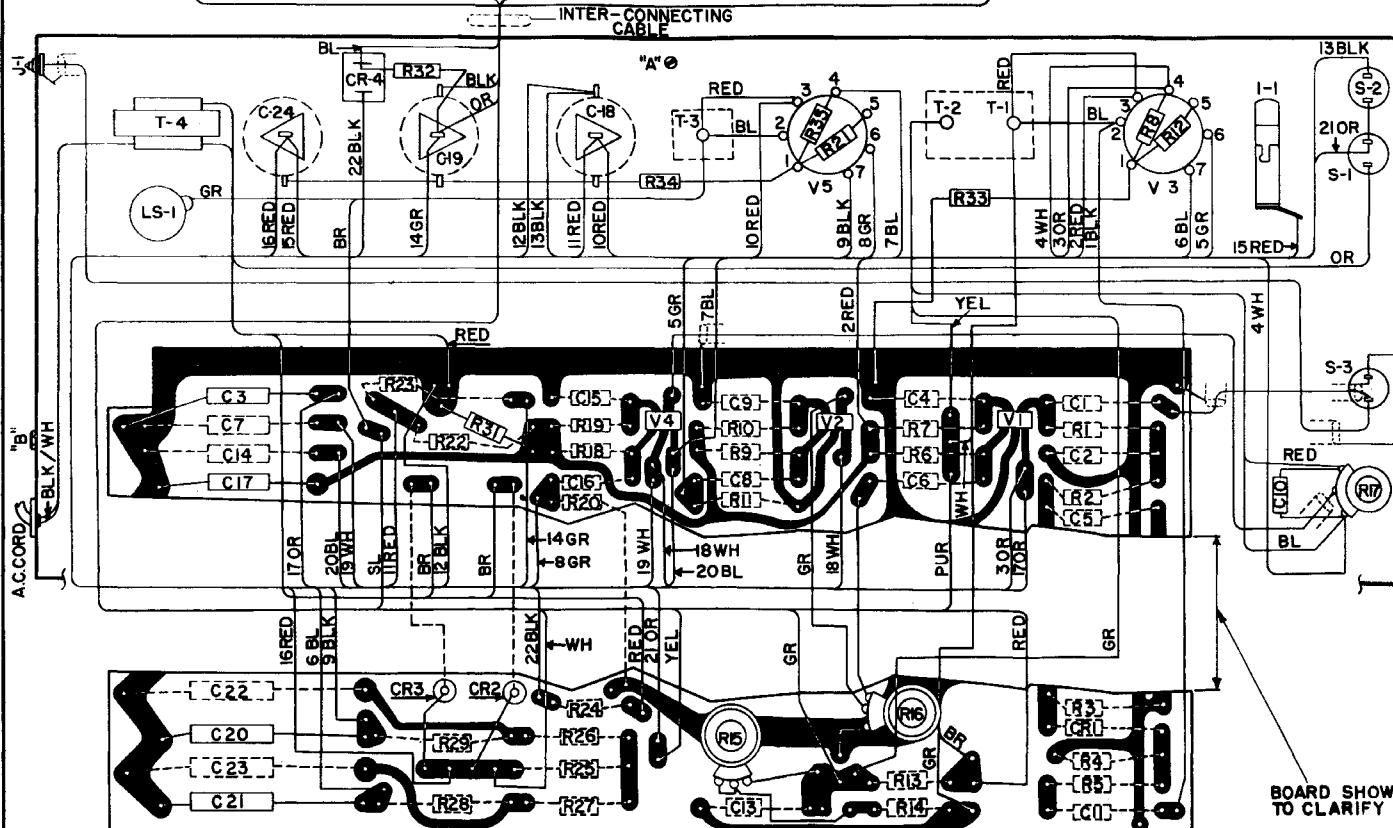
3- ALL MEASUREMENTS TAKEN WITH SPEAKER VOLUME CONTROL IN FULL COUNTER-CLOCKWISE POSITION.

4- VARIATIONS OF $\pm 10\%$ FROM GIVEN VALUES MAY BE OBTAINED DUE TO MANUFACTURING TOLERANCES IN TUBES, RESISTORS ETC.

5- TERMINALS ON V1,V2 AND V4 ARE NUMBERED 1 TO 5 FROM LEFT TO RIGHT AS SHOWN ON DIAGRAM (RED DOT ON TUBE ADJACENT TO No.1).

BOARD SHOWN CUT AND SEPARATED
TO CLARIFY WIRING.

SERIES 550-D-2
217730-000 ISSUE No. 1
SEE REVERSE SIDE FOR
SCHEMATIC CIRCUIT



AMPLIFIERS (WIRING FROM BOTTOM-AFTER FOLDING DOWN CHASSIS AND WIRING BOARD ASSEMBLY TO SHOW PRINTED SIDE OF BOARD.MTG.SCREWS AT A&B AND BACK OF V3 REMOVED(TUBE OUT OF SOCKET). COMPONENTS & WIRING SHOWN DOTTED ARE LOCATED ON OPPOSITE SIDE OF WIRING BOARD.