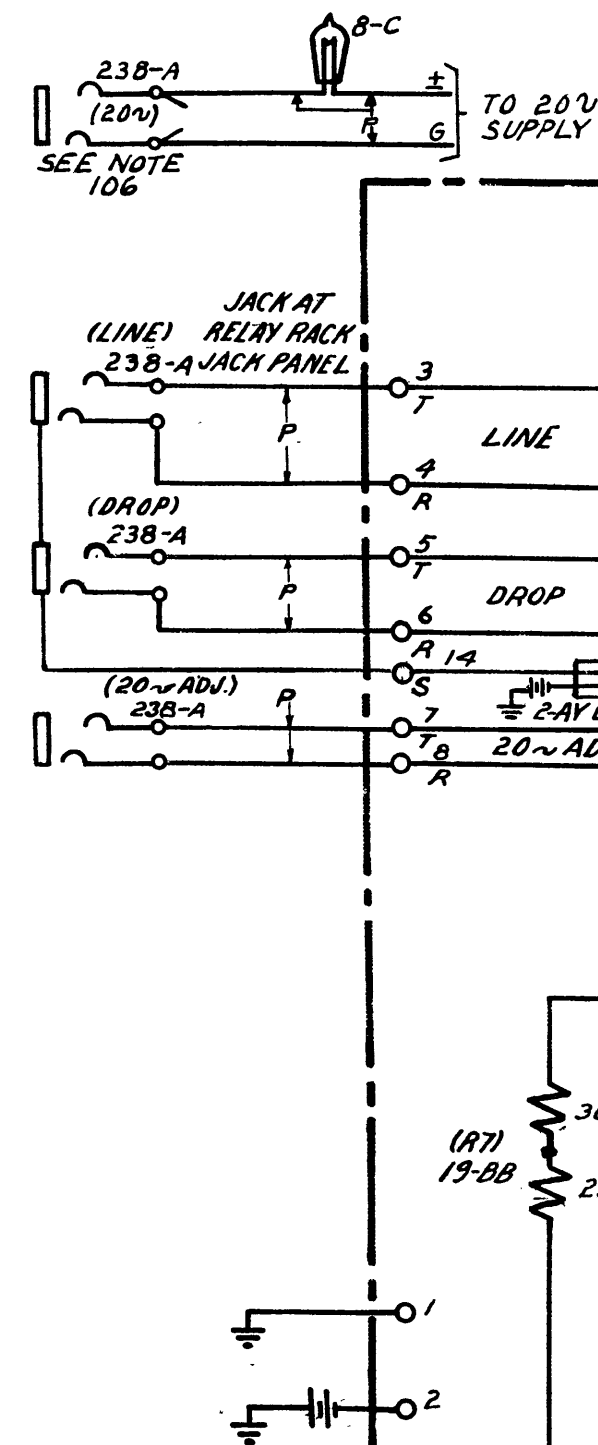


SD-62314-01															CIRCUIT REQUIREMENTS										REMARKS	CAT 155 NO.
135 CYC TEST																										1
APPARATUS		MECH. REQ		CIRCUIT PREPARATION					TEST SET		DIRECT CURRENT FLOW REQ.												2			
DESIGN CODE	BSP	CONFORM	SEQ.	SW.	BLOCK	TEST CLIP DATA	TEST SET	TEST NOTE	TEST	TEST	AFTER 304K	TEST	READJ.											3		
	FIG.	PRES.	TRVL	POS		CONN BAT	CONN GRD	NO	WDS FOR	AMP	AMP	AMP											4			
RELAYS																									5	
(S1)	199-T	B				L WDG (S1)	G		0	.0052	.0049	DISCONNECT LEADS FROM 'L' WDG TERM OF (S1)														
						L WDG (S1)	G		NO	.0039	.0041	DISCONNECT LEADS FROM 'L' WDG TERM OF (S1)														
(S2)	B56	1		.030		1 WDG (S2)	G		0	.0011	.001															
						1 WDG (S2)	G	3	R	.0003	.0003															
(S3)	J3	1		.023				1	0	.0066AC	.006AC															
(S4)	E1450	8/7	10	.020		RU (S4)	G		0	.024	.023	INSULATE '18 (S4)														
(S5)	218-B							2/3	0	.00025AC	.00025AC															
(S6)	WITH																									
	26-B.																									
	CONN.																									
	BLOCK																									

TEST NOTES:
 1- PATCH DROP JACK TO 20~ ADJ. JACK AND ADJUST ACCORDING TO CD-62314-01
 2- TEST AND READJUST IN ACCORDANCE WITH BSP FOR 218-B RELAY.
 3- NO MARGIN CAN BE SPECIFIED BETWEEN TEST AND READJUST VALUES.

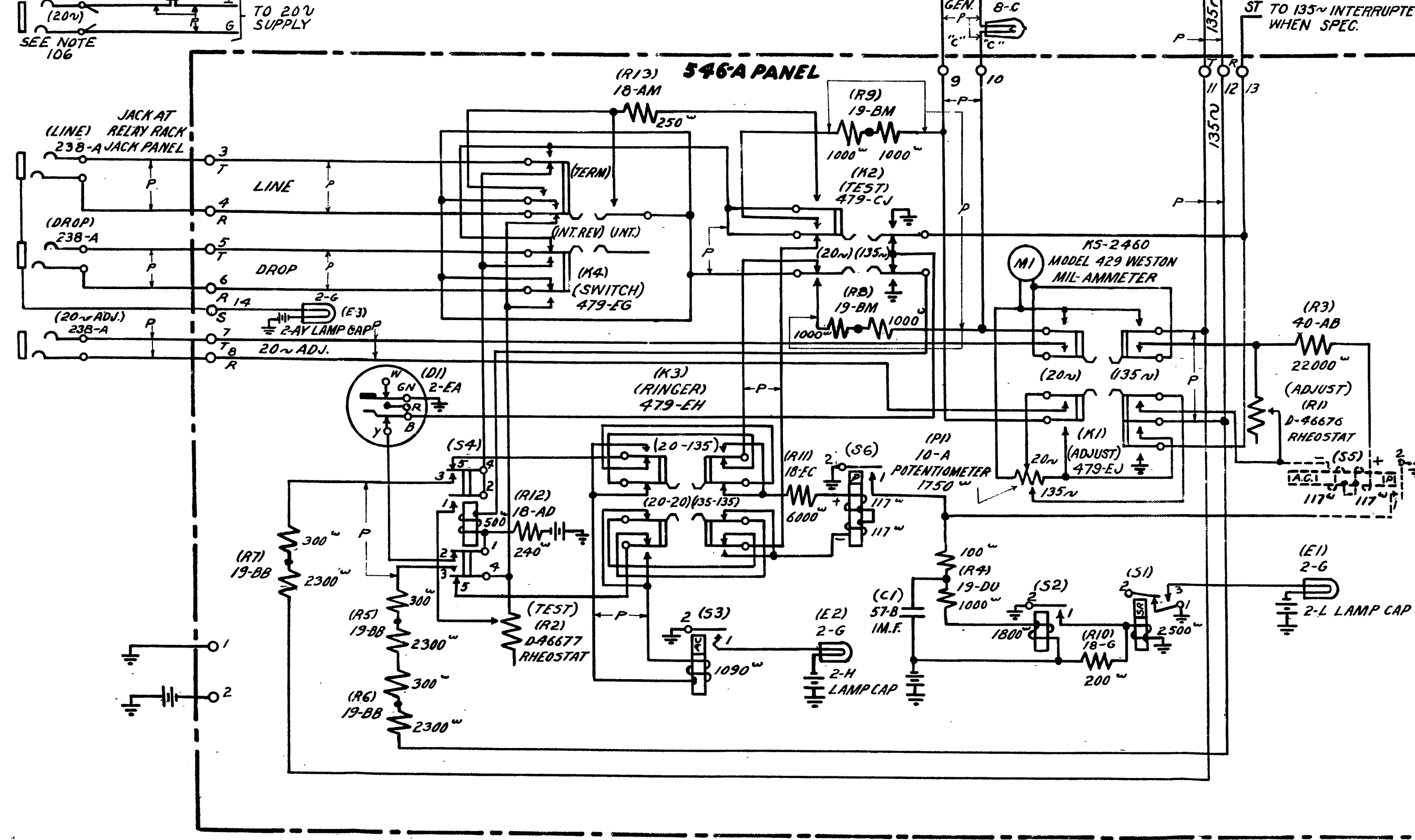
FIG. 2



CIRCUIT NOTES:

101. THERE SHALL BE ONE LEAD FROM 24V BATTERY EQUIPPED WITH ONE 15 AMP FUSE FOR EACH TESTING CIRCUIT. THERE SHALL BE ONE LEAD FROM THE 20 CYCLE RINGING GENERATOR EQUIPPED WITH ONE 15 AMP FUSE COMMON TO 5 CKTS. AND AN 8-C LAMP FOR EACH CIRCUIT. THERE SHALL BE TWO LEADS TO SUPPLY THE 135 CYCLE CURRENT WHICH SHALL BE FURNISHED BY THE REGULAR MOTOR GENERATOR OR THE SPARE 156-B INTERRUPTER. THE 18-G RESISTANCES SHALL BE OMITTED FROM THE RINGING LEADS. THE LEADS FROM THE 135 CYCLE MOTOR GENERATOR SUPPLY SHALL BE EQUIPPED WITH 74-G HEAT COILS.
102. WHEN ADJUSTING 196-E RELAYS IN 20-20 OR 20-135 CYCLE INTERMEDIATE RINGERS EQUIPPED WITH A 38 TYPE RESISTANCE IN SERIES WITH THE 196-E RELAY SHORT CIRCUIT THIS RESISTANCE DURING THE ADJUSTMENT.

FIG. 1

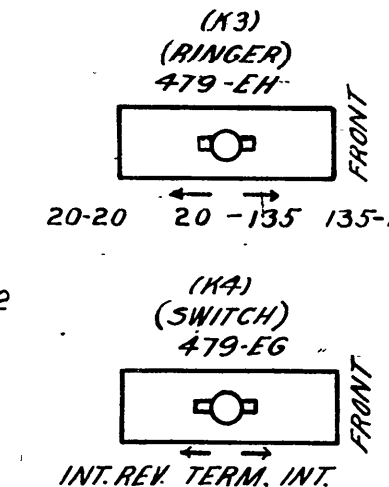


103. PREVIOUS TO ISSUE 2-D NOTE 102 WAS NOT SHOWN.

104. 218-B RELAYS ARE NOT FURNISHED AS PART OF THIS PANEL RELAY (S6) 218-B SHALL BE ORDERED SEPARATELY. RELAY (S5) IS NOT REQUIRED.

105. PREVIOUS TO ISSUE 3-B NOTE 102 WAS NOT A&M ONLY, NOTE 104 WAS NOT SHOWN, LAMP (E3) AND ASSOCIATED WIRING WERE NOT SHOWN, 8-C LAMP WAS 6-B LAMP AND THE CURRENT SUPPLY TERMINALS ON THE CROSS CONNECTION DIAGRAM FIG.2 WERE NOT NUMBERED.

106. USE TO APPLY FULL VOLTAGE ON (J) TYPE RELAYS FOR ALIGNING ARMATURE.



RELAY	M-I METER SETTING	ADJ.
196-E	OPERATE 22	STD.
	NON-OPR. 17	
196-A	OPERATE 26.5	STD.
	READJ. O. 23.5	
	READJ. N.O. 17.5	
	OPERATE 14.5	SPECIAL
	READJ. O. 11	
	READJ. N.O. 7.5	
196-B	OPERATE 20	STD.
	READJ. O. 17	
	READJ. N.O. 7	
	OPERATE 15	SPECIAL
	READJ. O. 13	
	READJ. N.O. 6	

RELAY	M-I METER SETTING
218-B	OPERATE 25-100 STEP (R1)
	READJ. N.O. 12.5-30 STEP (R1)

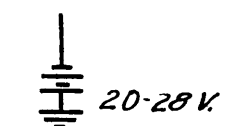
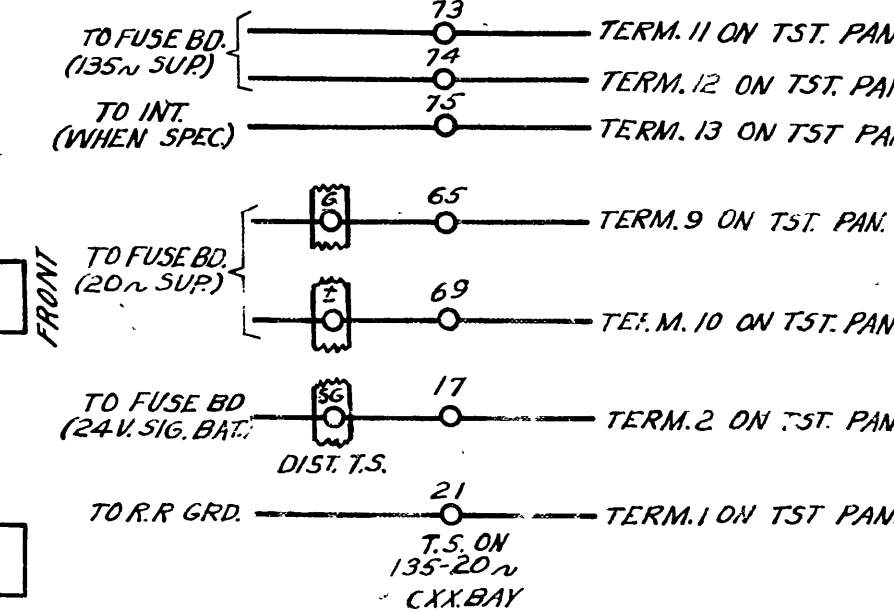


FIG. 6

FOR USE FOR 135-20 CYCLE CXX. TST. BAY



REPLACING ES-357149

SD-62314-01

TOLL SYSTEMS
 SIGNALING
 546-A PANEL
 TESTING AND ADJUSTING CIRCUIT
 FOR TERMINAL AND INTERMEDIATE RINGERS

AMERICAN TELEPHONE & TELEGRAPH CO.
 DEPT. OF DEVELOPMENT & RESEARCH
 BELL TELEPHONE LABORATORIES INC

SD-62314-01

M2