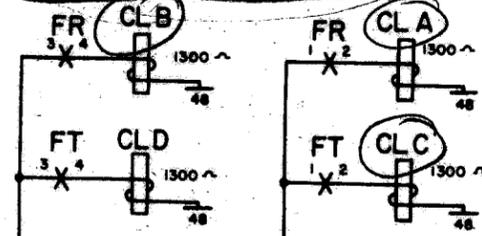


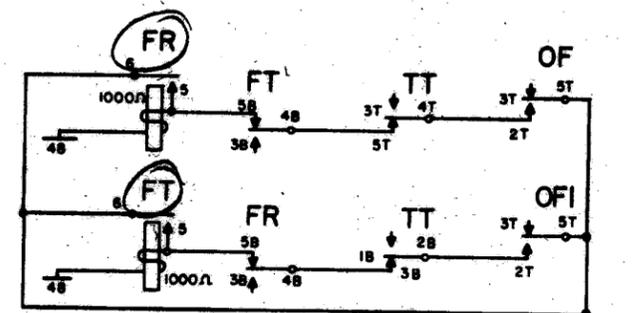
**CLASS REGISTRATION**



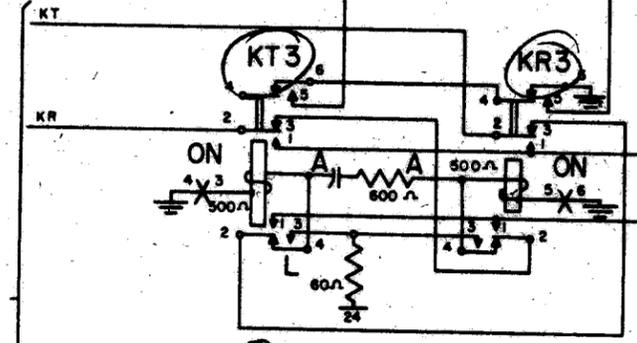
**SETTING SENDER FOR RINGING OR NO RINGING**

**CLASS RELAY OPERATION**

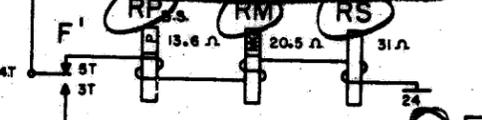
POLARITY ON LEADS				RELAYS OPERATED			
KT	KR	FT	FR	KR3	OF	FR	CLA
+	-	+	-	KR3	OF	FR	CLA
-	+	+	-	KT3	OF	FR	CLB
+	-	-	+	KR3	OF1	FT	CLC
-	+	-	+	KT3	OF1	FT	CLD



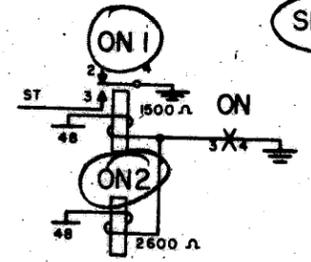
TO LINK CIRCUIT



**KEY PULSING RELAYS**

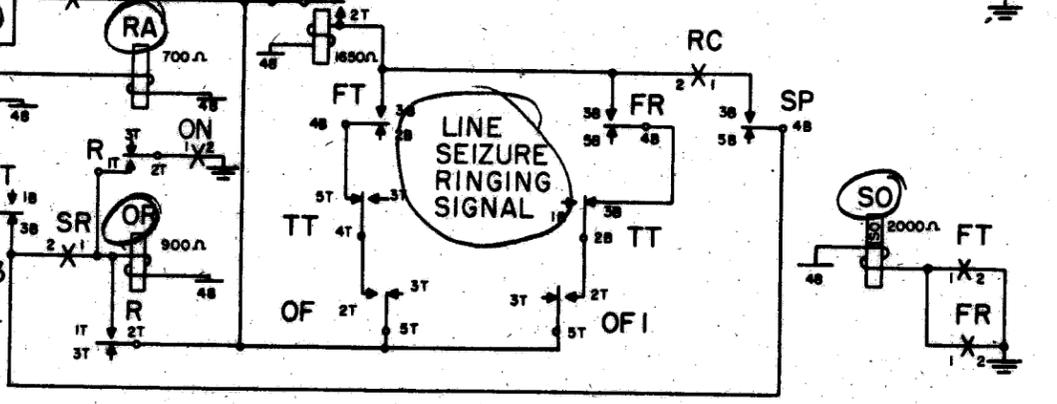


**SENDER CONTROL**

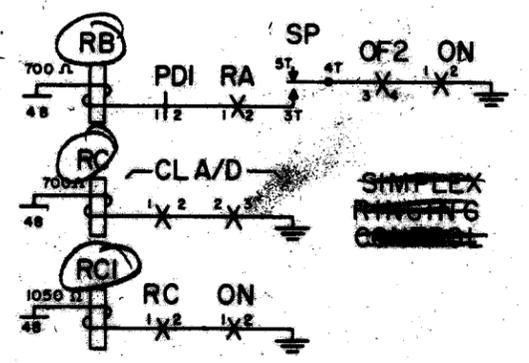


TO COMMON TIMING AND ALARM CKT

**LINE SEIZURE RINGING SIGNAL**



**SIMPLEX RINGING SIGNAL**



SENDER CKT SD-95460-01 155. 4B

**SENDER CIRCUIT RECEIVES D-C KEY PULSES TRANSMITS DIAL PULSES 10 P.P.S.-D-C RINGING SIGNAL**

OS107-1 3 SHEETS, SHEET 1 NO. 3C OR 3CL TOLL SWBD.

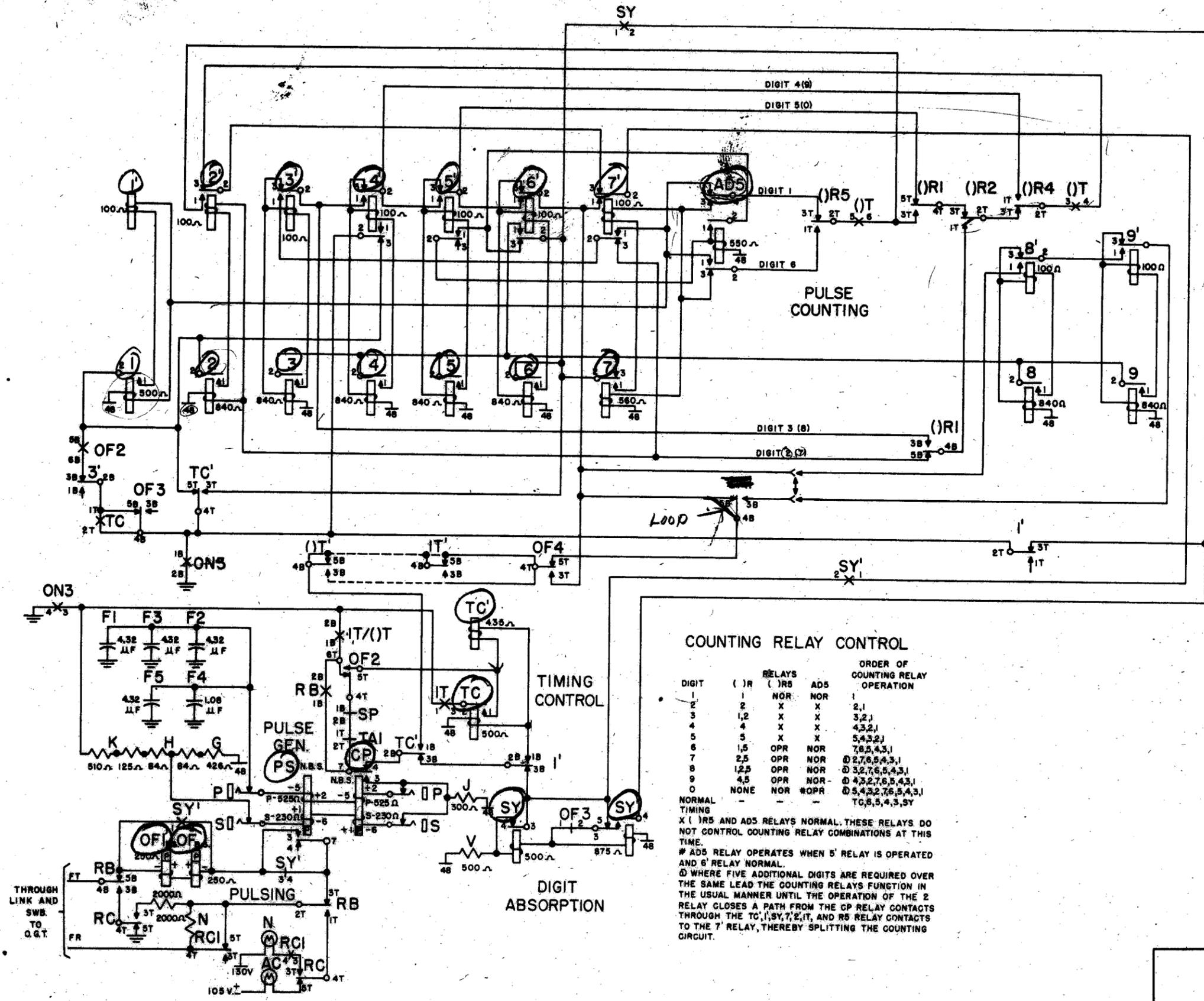
ORDER AS SUP ITEM MP-11510

BELL TELEPHONE LABORATORY

MP-11510 3 SHEETS, SHEET 1



ISSUE	1	DATE	3-14-50



COUNTING RELAY CONTROL

DIGIT	( )R	( )RS	ADS	ORDER OF COUNTING RELAY OPERATION
1	1	NOR	NOR	1
2	2	X	X	2,1
3	1,2	X	X	3,2,1
4	4	X	X	4,3,2,1
5	5	X	X	5,4,3,2,1
6	1,5	OPR	NOR	7,6,5,4,3,1
7	2,5	OPR	NOR	② 2,7,6,5,4,3,1
8	1,2,5	OPR	NOR	③ 3,2,7,6,5,4,3,1
9	4,5	OPR	NOR	④ 4,3,2,7,6,5,4,3,1
0	NONE	NOR	#OPR	⑤ 5,4,3,2,7,6,5,4,3,1

NORMAL TIMING  
 X ( )RS AND ADS RELAYS NORMAL. THESE RELAYS DO NOT CONTROL COUNTING RELAY COMBINATIONS AT THIS TIME.  
 # ADS RELAY OPERATES WHEN 5' RELAY IS OPERATED AND 6' RELAY NORMAL.  
 ② WHERE FIVE ADDITIONAL DIGITS ARE REQUIRED OVER THE SAME LEAD THE COUNTING RELAYS FUNCTION IN THE USUAL MANNER UNTIL THE OPERATION OF THE 2 RELAY CLOSES A PATH FROM THE CP RELAY CONTACTS THROUGH THE TC', 1', SY', 7', 2', IT, AND R5 RELAY CONTACTS TO THE 7' RELAY, THEREBY SPLITTING THE COUNTING CIRCUIT.

SENDER CIRCUIT  
 RECEIVES D-C KEY PULSES  
 TRANSMITS DIAL PULSES  
 10 P.P.S. - D-C RINGING SIGNAL