

101.

[illegible]

* ON NEW UNIVERSAL TYPE UNITS PROVIDE 3 AMP FUSE FOR NON-LOCKOUT LINES IN 355A OFFICES WHERE COMBINED LOCKOUT AND AND NON-LOCKOUT LINE CIRCUITS ARE FURNISHED ON THE SAME LINE FINDER SHELF UNIT.

FEATURE OR OPTION				FIG.	PROVIDE APR FOR WIR	QUANTITY
SINGLE PARTY MESSAGE P.B. SERV. REGISTER OPERATED FROM 2-4 PARTY MESSAGE RATE CLASS OF SERVICE INDICATION FROM SUB. LINE FLAT RATE, INDIVIDUAL MESSAGE RATE AND POST PAY COIN LINES	POSITIVE BOOSTER BATTERY	OVERTIME CHARGING	REQD	4	ZA	1 PER LINE
		MESSAGE UNIT	NOT REQD		ZB, W	
	BATTERY NEG BATTERY	REPETITION	NOT REQD	5	G	1 PER LINE
		TO PBX VIL OR WIRE	REQD		F	
	FOR TIP		NOT REQD	6	T	1 PER LINE
	FOR RING PARTY		REQD			
	FOR RES. GRD.		5	1 PER LINE		
	DIRECT GRD.		7	1 PER LINE		
	HIGH RES. GRD.		8	1 PER LINE		
	LINE CKT FOR LINE NOT REQUIRING FIG. OR LINE CKT FOR CONNECTION TO MJ MOBILE RADIO TEL SYS 1ST PART CXT OR FOR CONNECTION TO DIALONE FIRST COIN PBX LINE		9	1 PER LINE		
LINE CKT FOR TRK. FROM SEL. MULT. IN SOTA, SOTB, T00C, T01A, T02A, T10C, T11A, T40A, T40B, T40C, OR T40E PBX. FOR TRK. CXT. A RANGE TO OPERATE LINE. RELAY, GROUNDING THE RING CONDUIT, AND LINE RELAY. FOR T01C, T01D, T01E, T01F, T01G, T01H, T01I, T01J, T01K, T01L, T01M, T01N, T01O, T01P, T01Q, T01R, T01S, T01T, T01U, T01V, T01W, T01X, T01Y, T01Z, T02A, T02B, T02C, T02D, T02E, T02F, T02G, T02H, T02I, T02J, T02K, T02L, T02M, T02N, T02O, T02P, T02Q, T02R, T02S, T02T, T02U, T02V, T02W, T02X, T02Y, T02Z, T03A, T03B, T03C, T03D, T03E, T03F, T03G, T03H, T03I, T03J, T03K, T03L, T03M, T03N, T03O, T03P, T03Q, T03R, T03S, T03T, T03U, T03V, T03W, T03X, T03Y, T03Z, T04A, T04B, T04C, T04D, T04E, T04F, T04G, T04H, T04I, T04J, T04K, T04L, T04M, T04N, T04O, T04P, T04Q, T04R, T04S, T04T, T04U, T04V, T04W, T04X, T04Y, T04Z, T05A, T05B, T05C, T05D, T05E, T05F, T05G, T05H, T05I, T05J, T05K, T05L, T05M, T05N, T05O, T05P, T05Q, T05R, T05S, T05T, T05U, T05V, T05W, T05X, T05Y, T05Z, T06A, T06B, T06C, T06D, T06E, T06F, T06G, T06H, T06I, T06J, T06K, T06L, T06M, T06N, T06O, T06P, T06Q, T06R, T06S, T06T, T06U, T06V, T06W, T06X, T06Y, T06Z, T07A, T07B, T07C, T07D, T07E, T07F, T07G, T07H, T07I, T07J, T07K, T07L, 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NOTE 102 CONT ON SHEET 3

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS.	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN.	SEE NOTE	USE IN CIRCUIT		
				STD.	A & M	M.D. PROV.
I				Y	Z	
I				W		X
3-B				FIG. 9		FIG. 1
3-B				FIG. 10		FIG. 2
5-D	T OR U	U		T		U
5-D	V	Y OR Z		V		Y, Z
5-D				X		
6D	S	T OR U	202		S	
6D	R	V, Y OR Z	202		R	
8D	Q OR P	O		P		Q
8D	N OR M	N		M		N
8D	K	NONE	106		K	
9D	J	NONE	102	J		
12D	H	NONE	102	H		
14D						FIG. 3
15D	G	S, T OR U	102, 108	G		
15D	F	R, V, Y OR Z	102, 108	F		
16D						X
18D	A, B OR E	E	102, 110	A, B, E		
19D			111		A, B	
20B	ZA	W OR X OR ZB	102	ZA, ZB, W		
24B	ZC	NONE	102, 114	ZC		

CIRCUIT NOTES CONT. ON SHEET 3

SHEET INDEX (INITIATED ON ISS 24B)

[illegible]

FIG. 1 (MFR DISC)
LINE CKT ARRANGED FOR LOOP START
SEE NOTES 104 AND 303

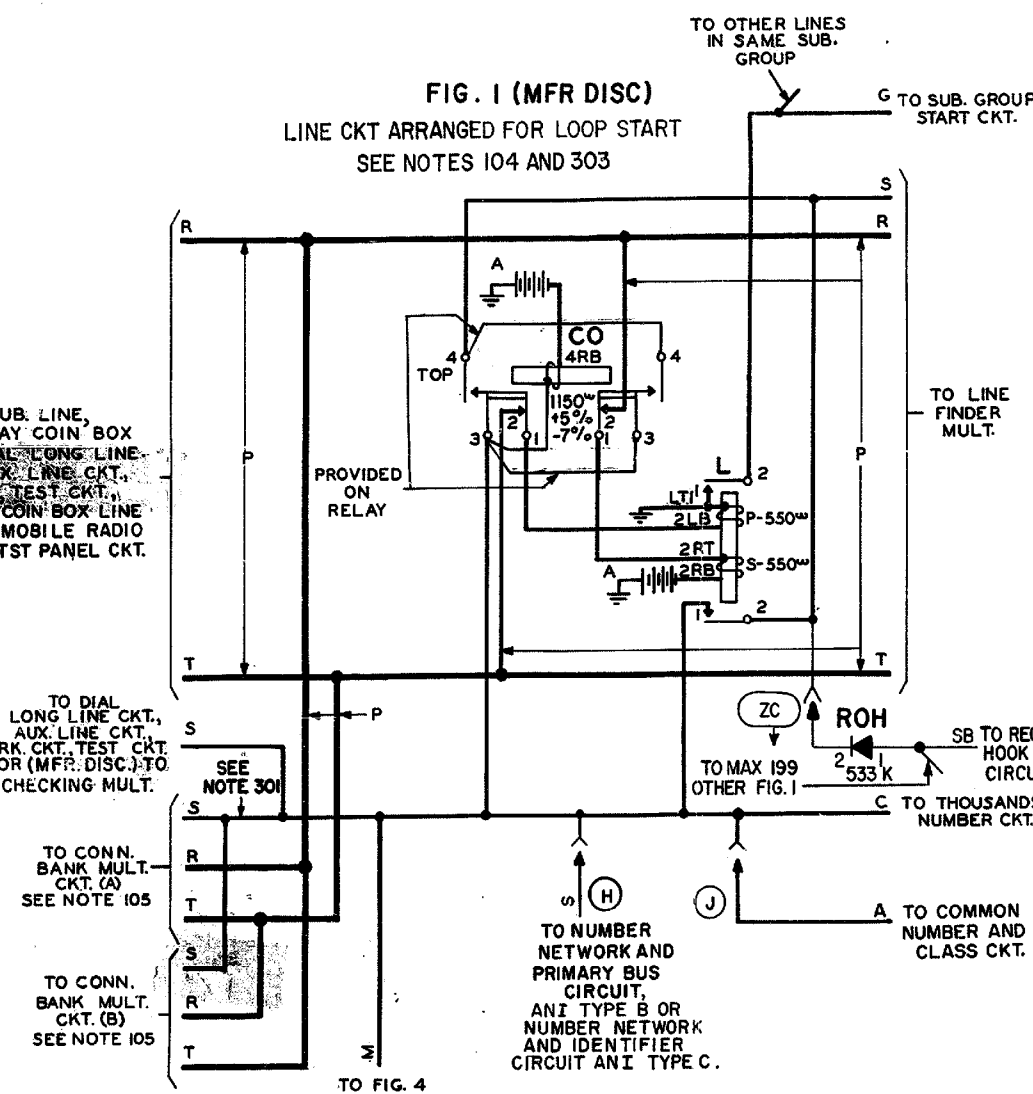
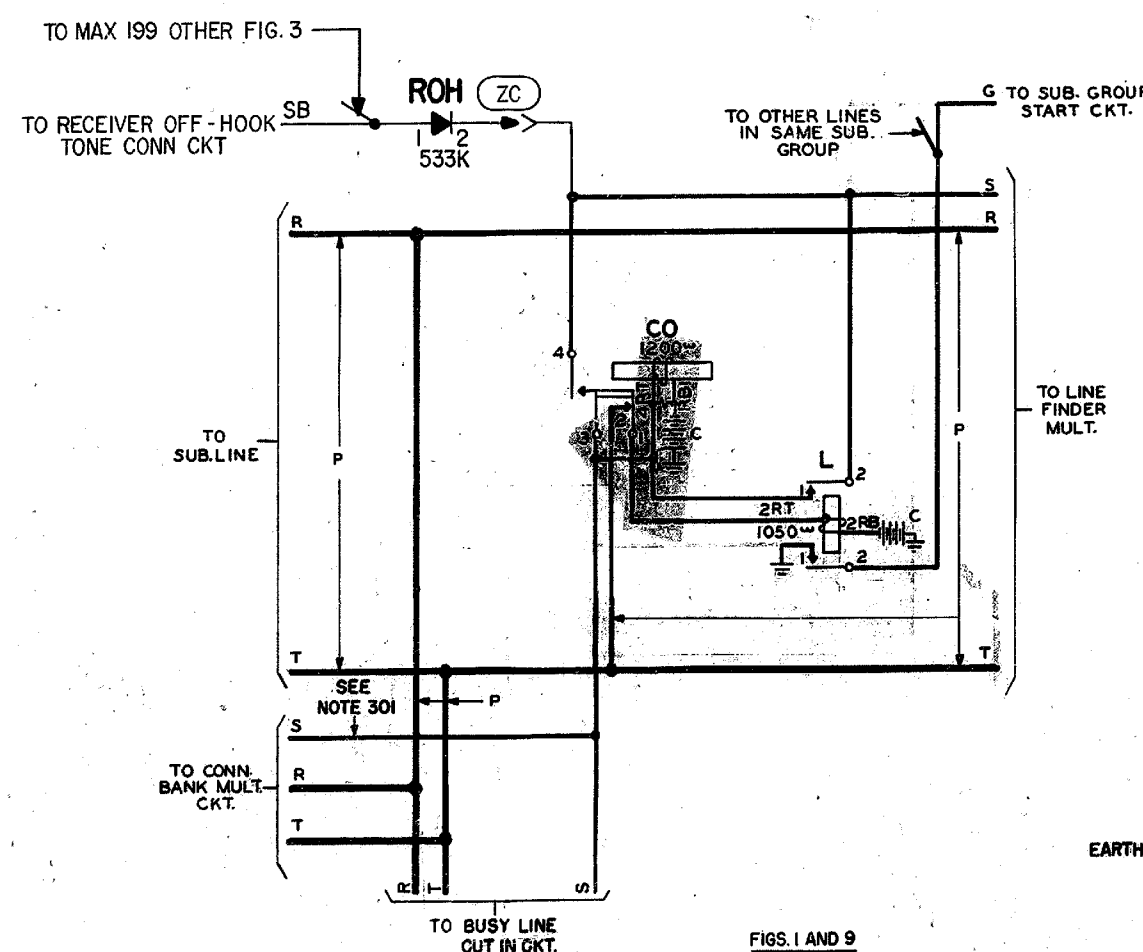


FIG. 3
(MFR. DISC.)
LINE CKT. ARRANGED FOR GROUND.
START ON THE TIP
SEE NOTE 303



OPTIONS USED	
FIGS.	APP OR WIRING
1	Z
2	Y
3	X
4	W
5	V
6	U
7	T
8	S
9	R
10	Q
	P
	N
	M
	K
	J
	H
	G
	F
	E
	B
	A
	ZA
	ZB

FIGS. 1 AND 9
2 PTY. M.R & 5¢ PREPAY COIN - ADJ. "A"
2 PTY. M.R. ADJ. "B" SEE NOTE 302
2 PTY. ER. ARRANGED FOR AUTOMATIC TICKETING
OTHER LINES (HAVING NO D.C. PATH TO GROUND AT STATION)
DIAL TONE FIRST COIN BOX LINES-ADJ "B" SEE NOTE 302
FIGS. 2 AND 10 ADJ. "B" SEE NOTE 302
GROUND START (OPT "E")
LOOP START (OPTIONS A & E OR B)

PBX TRUNKS - ADJ. "A"
FIG. 3
MANUAL PREPAY COIN

FIG. 2
(MFR. DISC.)
LINE CKT. ARRANGED FOR
GROUND START ON THE RING
OR LOOP START SEE NOTES
104,110,111,303 AND 305

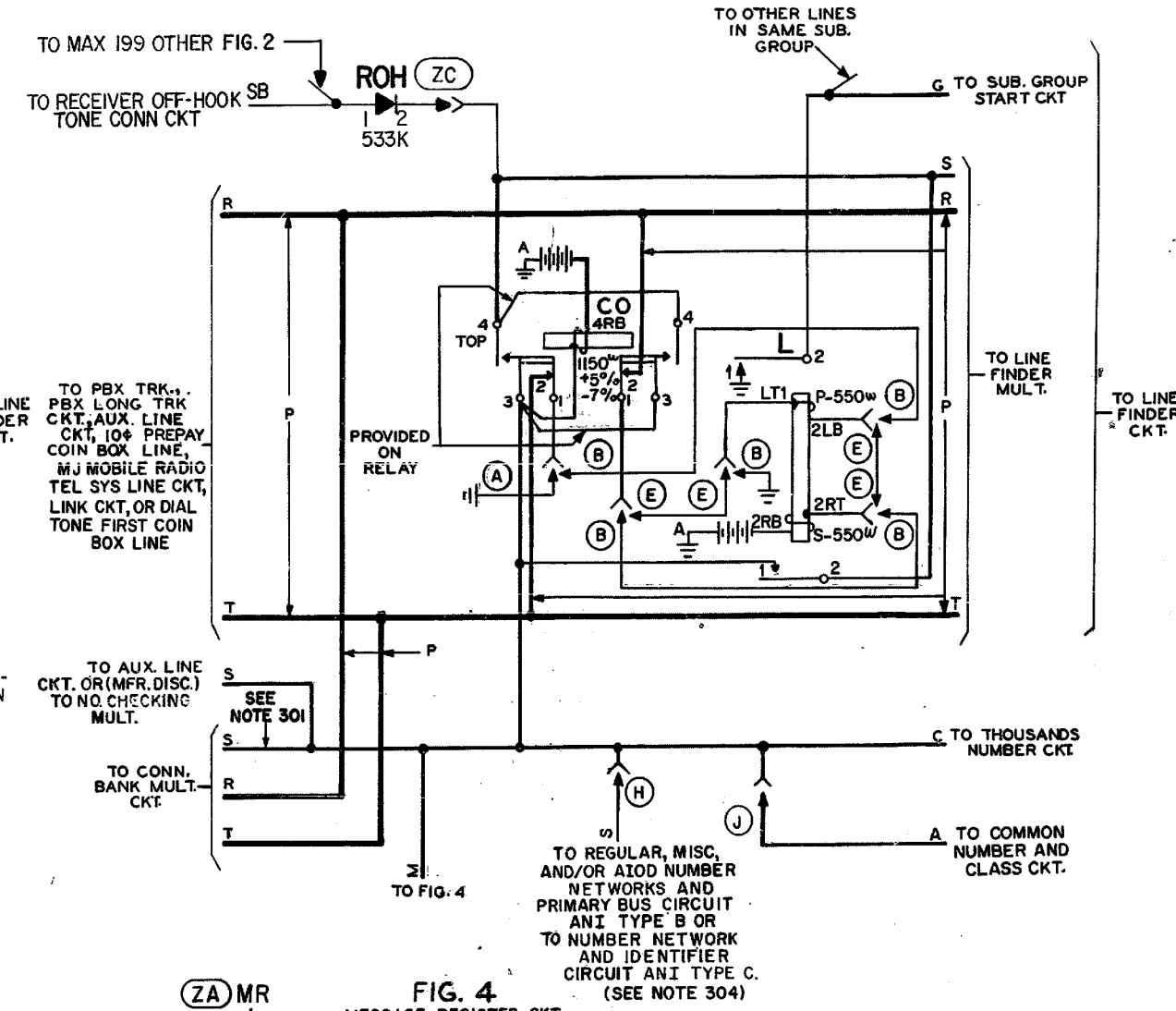


FIG. 4
MESSAGE REGISTER CKT

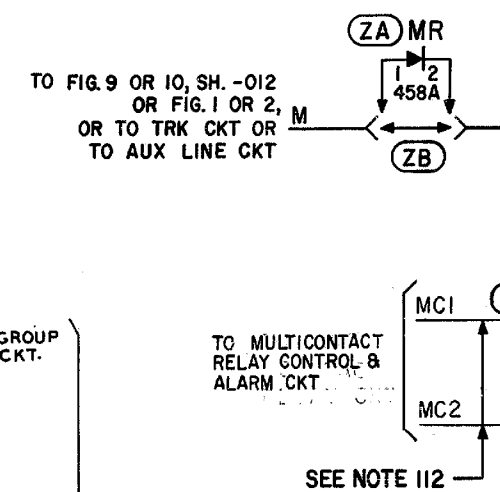


FIG. 5
MESSAGE REGISTER CKT.

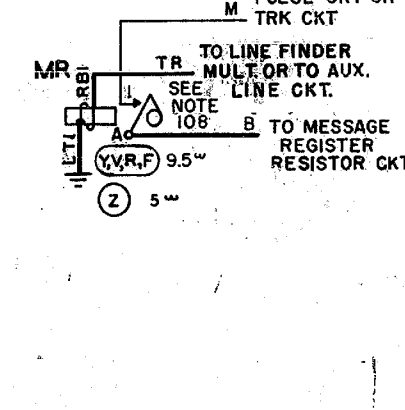


FIG. 6
TIP PARTY
PAGE REGISTER CKT.

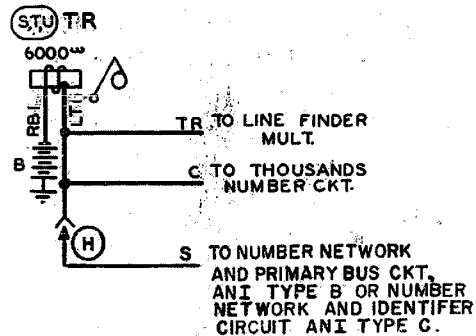


FIG. 7
CLASS OF SERVICE
CKT.

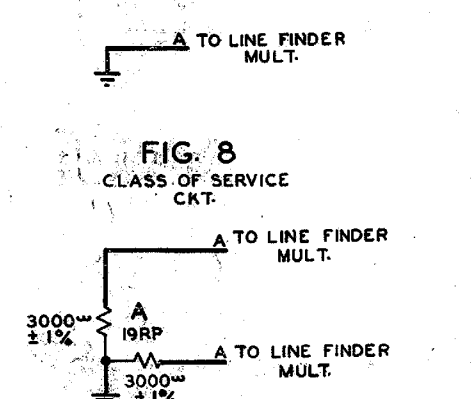
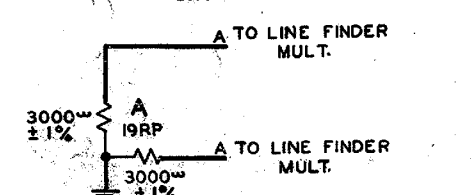


FIG. 8
CLASS OF SE
CKT.



EARTH POTENTIAL →	WORKING LIMITS						MIM. RES. RES.	
	45V. MIN.			45V. MIN.				
	OV. ±3V. ±10V.	±20V.	-6V. +10V.	OV. ±3V. ±10V.	±20V.	-6V. +10V.		
	MAX. EXT. CKT. LOOP RESISTANCE							
ADJ. "A"	1260 ^W	1180 ^W	1030 ^W	—	1375 ^W	1260 ^W	1150 ^W	15,000
F 302	—	—	1400 ^W	—	—	—	1500 ^W	15,000
OMATIC TICKETING	1380 ^W	1315 ^W	1280 ^W	—	1500 ^W	1450 ^W	1390 ^W	15,000
PATH TO GROUND (AT STATION)	—	—	1400 ^W	—	—	—	1500 ^W	15,000 ^W
LINES-ADJ "B" SEE NOTE 302	—	1400 ^W	—	—	1500 ^W	—	—	30,000 ^W
OTE 302	—	—	1000 ^W	—	—	—	1100 ^W	30,000 ^W
(B)	—	1400 ^W	—	—	1500 ^W	—	—	30,000 ^W
	MAX. EXT. CKT. RES. TO GRD.							
	1375 ^W	800 ^W	225 ^W	—	1520 ^W	945 ^W	370 ^W	30,000 ^W
	—	—	1450 ^W	—	—	—	1700 ^W	20,000 ^W

NOTICE-NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

EXCEPT FOR FILLING OUT PARTIALLY EQUIPPED LINE UNDER U
SD-31531-01 AND IN 35E95 OR 355A OFFICES REPLACE
WHERE PERMANENT SIGNAL LOCKOUT IS NOT REQUIRED.

SD-32133-01 1D99

STEP BY STEP SYSTEMS
NO. 1 350A 355A 360A OR 35-E-97

SUBSCRIBER LINE CIRCUIT

(L) OR (LINE)

BELL TELEPHONE LABORATORIES, INC.

KEYSHEET INFO

NO. 360A SD-31250-01
NO. 355A SD-31780-01
NO. 350A SD-31364-01
NO. 35E97 SD-32325-01
NO. 1 SD-31359-01

J32001M-()
ED-31176-O1
J32007K-()
J32007-J
ED-90587-
ED-90588-10
J33017CN-()
J33017CL-()
J33017F-()
ED-31220-O1
ED-2243-O1
J32020D-()
16536-O1
06608-O1
30560-O1
JMPMENT INFO.

UNIT, REPRODUCES
ES SD-3107-01

AT&T CO

STANDARD
A&M ONLY FOR 350A, 360A
AND 35-E-97

10

SD-32133-
SHEETS

PRINTED IN U.S.A.

CIRCUIT NOTES (CONT FROM SHEET 1)
(MFR 104. THIS CIRCUIT IS NOT TO BE USED FOR PREPAY COIN SERVICE IN 360A OFFICES.)

105. LINES & STATIONS SHALL BE CONNECTED TO CONNECTOR MULTIPLES "A" & "B" AS FOLLOWS:

TRAIN USED IN COMPLETING CALLS FROM OPERATORS	ALL STA EXCEPT POST PAY COIN		POST PAY COIN STA	
	TOLL OR LOCAL	A	B	A B
CONNECT TO CONN. MULTIPLE				
INDIVIDUAL LINE & PBX TRUNKS		✓		✓
RING STA OF TPL LINES 2,4,8		✓		✓
TIP STA OF TPL LINES OR 10 PTY		✓		✓
5 CODE 10 PTY. TPL LINES		✓		✓
10-20 CODE 10R 2 TPL LINES		✓		✓
10 CODE 10 OR 20 PARTY STA 1-10		✓		✓
2 TPL LINES (A&M ONLY) STA 11-20		✓		✓
8 PTY TPL LINES		✓		✓

a. WHERE POST PAY COIN TRUNK CIRCUIT ARRANGED FOR BOTH COIN AND NON-COIN STATIONS ON THE SAME LINE IS USED NON-COIN STATIONS MAY BE ASSIGNED TO THIS MULTIPLE.
b. ONLY RING STATIONS MAY BE USED FOR COIN SERVICE.
c. ONLY TIP STATIONS MAY BE USED FOR COIN SERVICE.
d. IN ASSIGNING STATIONS, THOSE CONNECTED TO THE RING SIDE OF THE LINE SHOULD BE CONSIDERED TIP STATIONS, AND VICE-VERSA.

106. PROVIDE "K" OPTION WHEN INSTALLED IN A 35-E-97 OFFICE (A & M ONLY) AND CLASS OF SERVICE TONE IS REQUIRED AND AUX LINE CKT FOR CLASS OF SERVICE TONE IS NOT FURNISHED.

107. WHERE POST PAY COIN SERVICE IS PROVIDED "H" OPTION MAY BE APPLIED ON LINES WITH BOTH COIN AND NONCOIN STATIONS WHEN THIS CIRCUIT IS USED WITH CIRCUITS ARRANGED TO RESTRICT SERVICE FROM COIN STATIONS.

108. MESSAGE REGISTER CONTACTS PROVIDED ONLY WITH "G" OR "F" OPTION.

(MFR 109. WHEN THIS CIRCUIT CONNECTS TO THE DIAL TONE SPEED REGISTER CIRCUIT IN STEP BY STEP OFFICES ARRANGED FOR "TOUCH-TONE" CALLING, A P32B126 (RED) PLASTIC SLEEVE SHOULD BE USED TO INSULATE 1 & 2 TOP OF THE (CO) RELAY IN ORDER TO REMOVE GROUND FROM THE TIP SIDE OF THE LINE TO PROVIDE FOR RING GROUND START AS REQUIRED. THE MAXIMUM EXTERNAL RESISTANCE SHALL NOT EXCEED 650 OHMS WHEN THIS FEATURE IS APPLIED.

110. OPTIONS A AND E, TOGETHER, PROVIDE UNBALANCED LOOP START OPERATION. OPTION B PROVIDES BALANCED LOOP START OPERATION.

111. OPTIONS A AND B IN FIG. 2 AND FIG. 10 ARE FOR FIELD MODIFICATION OF EXISTING EQUIPMENT AND SHALL NOT BE SPECIFIED FOR NEW MANUFACTURE.

112. THE COMBINED SERIES RESISTANCE OF THE MC1 AND MC2 LEADS SHALL NOT EXCEED 14 OHMS.

113. THE DIAL TONE SPEED REGISTER CAN BE CONNECTED TO EITHER LOOP START OR GROUND START LINE CIRCUITS FOR BASIC STEP BY STEP OPERATION. IF THE LINE CIRCUIT IS IN A LINE GROUP SERVING "TOUCH-TONE" OR COMMON CONTROL EQUIPMENT A GROUND START LINE CIRCUIT IS REQUIRED. LOOP START LINE CIRCUITS CAN BE CONVERTED TO GROUND START FOR THIS CONDITION BY INSULATING SPRINGS 1 & 2 TOP OF RELAY "CO" WITH A P-32B126 (RED) PLASTIC SLEEVE. THE RING LEAD RESISTANCE ON THE MODIFIED LINE CIRCUITS IS LIMITED TO 650 OHM.

114. OPTION ZC IS USED IN SOME CIRCUITS WHERE REDUCTION OF THE LEVEL OR TOTAL DISCONNECTION OF ROH TONE (SEE SD-33034-01) IS REQUIRED FOR CORRESPONDING LINE (E.G. PBX LINE) ONLY.

INFORMATION NOTES:

301. THE RESISTANCE OF LEAD "S" BETWEEN FIGS. 1,2,3,9 OR 10 AND THE CONNECTOR BANK TERMINAL SHALL NOT EXCEED 10^Ω.

302. USE OF ADJUSTMENT "B" TO EXTEND THE RANGE OF 2 PARTY MESSAGE RATE LINES IS RECOMMENDED ONLY WHERE THERE IS NEGLIGIBLE RISK OF REPEATED LINE FINDER STARTS DUE TO LOW INSULATION RESISTANCE.

303. WHEN LINE CIRCUIT IS TO BE USED FOR ORIGINATING SERVICE ONLY, OMIT CONNECTION TO THE CONNECTOR MULTIPLE.

304. FOR PBX AUTOMATIC IDENTIFIED OUTWARD DIALING (A10D) SERVICE A CONNECTION TO AN A10D NUMBER NETWORK IS REQUIRED IN ADDITION TO THE CONNECTION TO A REGULAR NUMBER NETWORK OR IN PLACE OF THE CONNECTION TO A MISC. NUMBER NETWORK.

305. LINE CIRCUIT, FIGS. 2 & 10, CAN BE MODIFIED FOR UNBALANCED "LOOP START" AND CONTINUE TO OPERATE AS "GROUND START" BY INSULATING SPRING 2T OF RELAY CO WITH A P32B126 PLASTIC SLEEVE AND APPLYING OPTIONS A AND E.

WHEN THE DIAL TONE FIRST SERVICE (COIN STATION SERVICE ARRANGED FOR COINLESS ACCESS TO SPECIFIED NUMBERS) IS IMPLEMENTED, REMOVE PLASTIC SLEEVE.

102. (CONT FROM SH 1)

FEATURE OR OPTION	PROVIDE	
	FIG.	QUANTITY
REDUCTION OF THE RECEIVER OFF-HOOK TONE IS REQUIRED		ZC
LINE CKT FOR CONNECTION TO CDA 2 WAY AUX LINE CKT	9	1 PER AUX LINE

FIG. 56
(FOR FIGS. 9 & 10)
FOR 22 POINT LINE FDRS

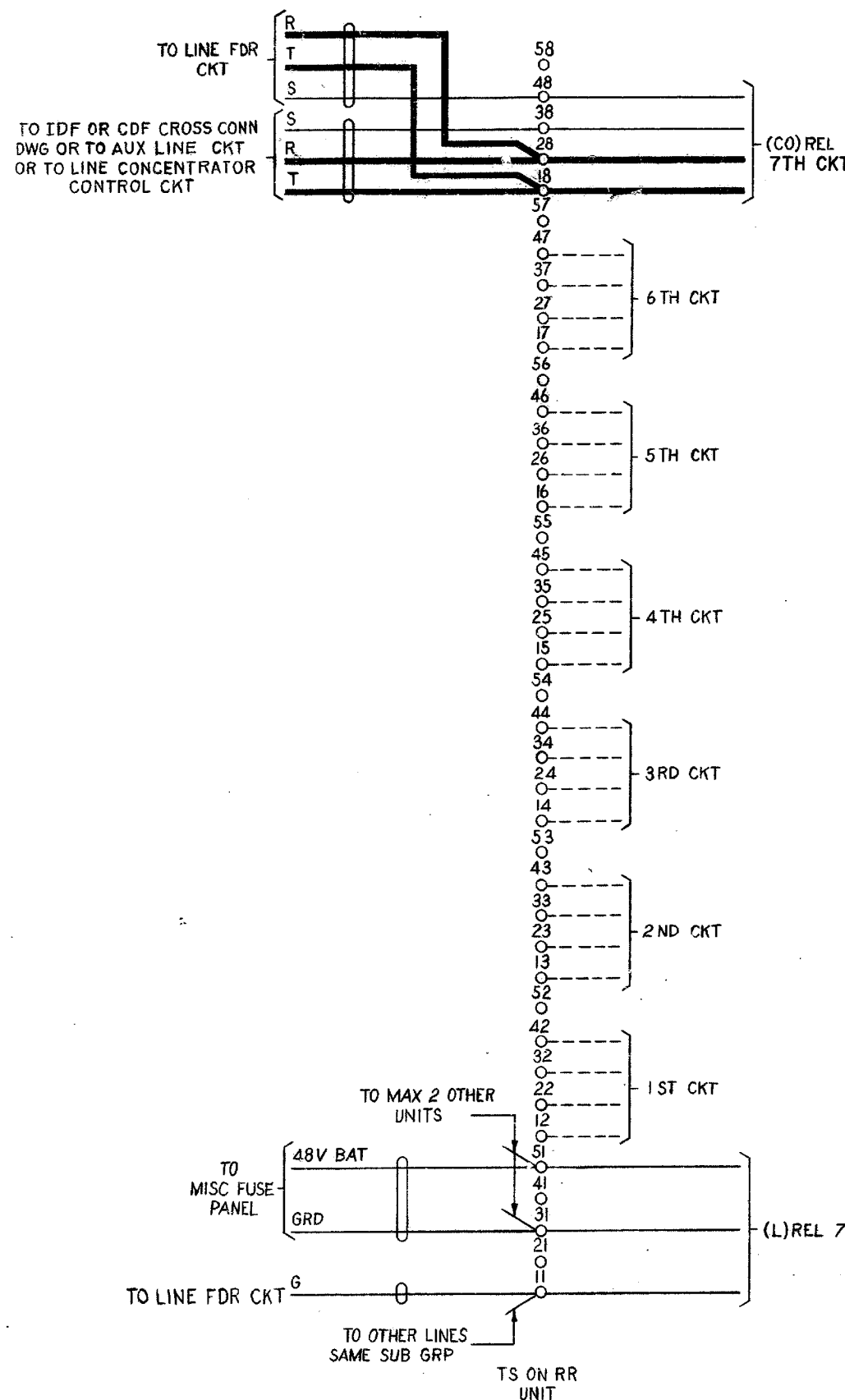


FIG. 57
(FOR FIGS. 9 & 10)
FOR 35-E-97 ONLY

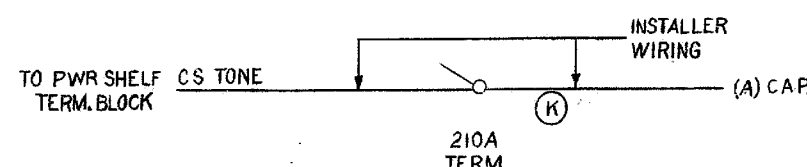


FIG. 58
(FOR FIGS. 9 & 10)
FOR 3 WIRE LINE FDRS

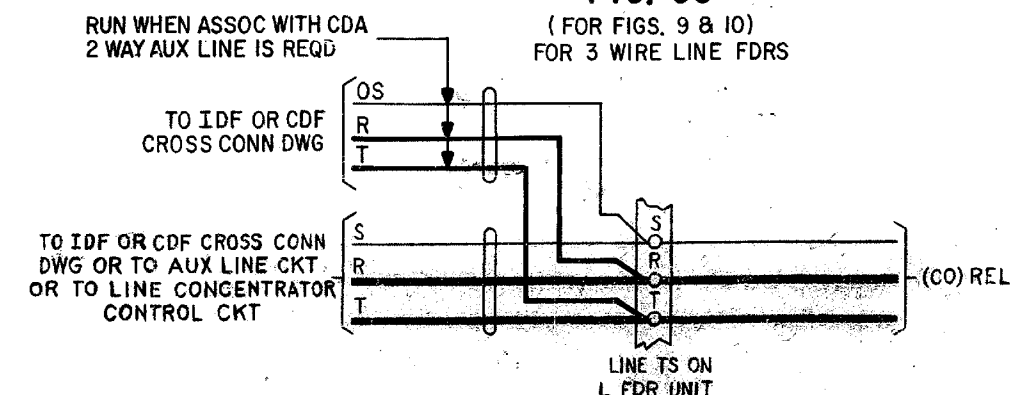


FIG. 59
(FOR FIGS. 9 & 10)
FOR 4 WIRE LINE FDRS

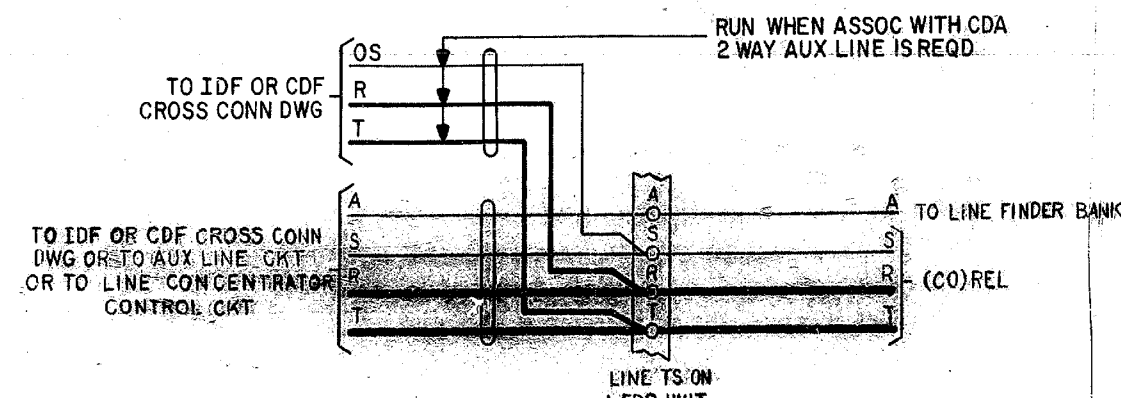


FIG. 60 (MFR DISC.)
(FOR 10 FIGS. 4)
MESSAGE REGISTER
355A OFFICE

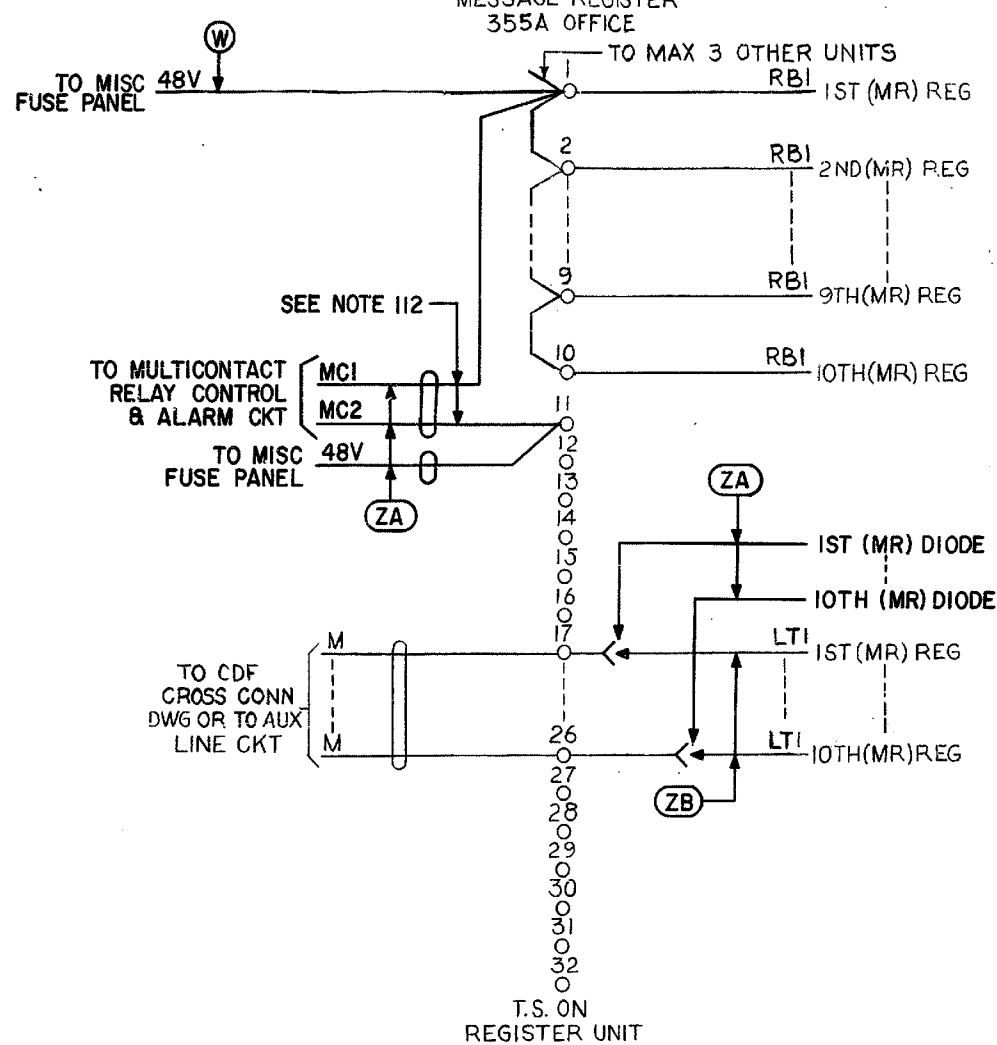


FIG. 61 (MFR DISC.)
(FOR 10 FIGS. 5)
MESSAGE REGISTER
355A OFFICE

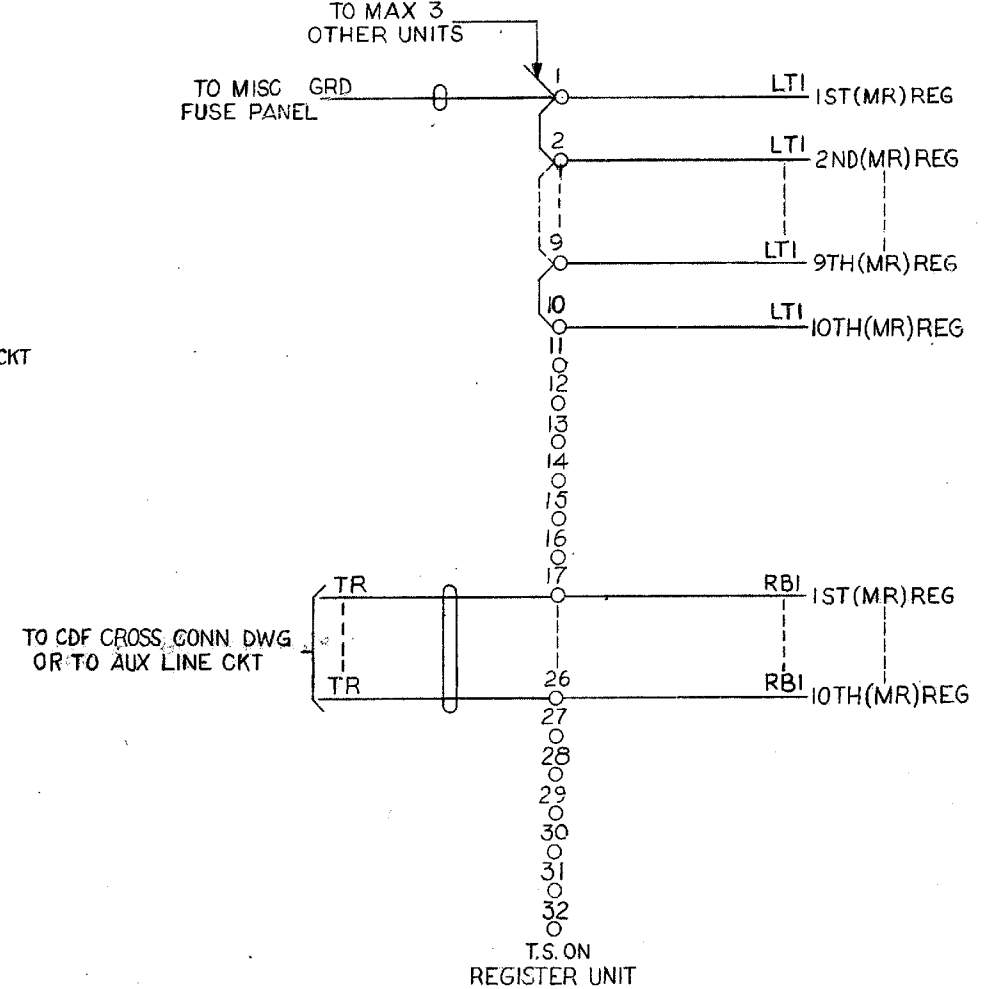
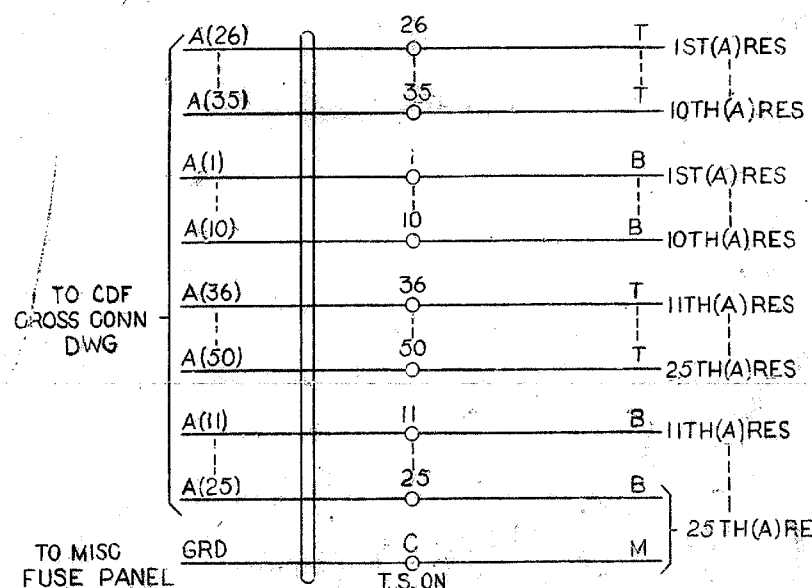


FIG. 62
(FOR 25 FIGS. 8)
CLASS OF SERVICE
355A OFFICE



SUBSCRIBER LINE CIRCUIT

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75

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6NO-EEISE-02

ISSUE
25B

FIG. 63
(FOR 10 FIGS. 4 "G" APP ONLY)
FOR 355A OFFICE
MESSAGE REGISTERS PROVIDING MESSAGE
UNIT REPETITION TO PBX VIA 3RD WIRE

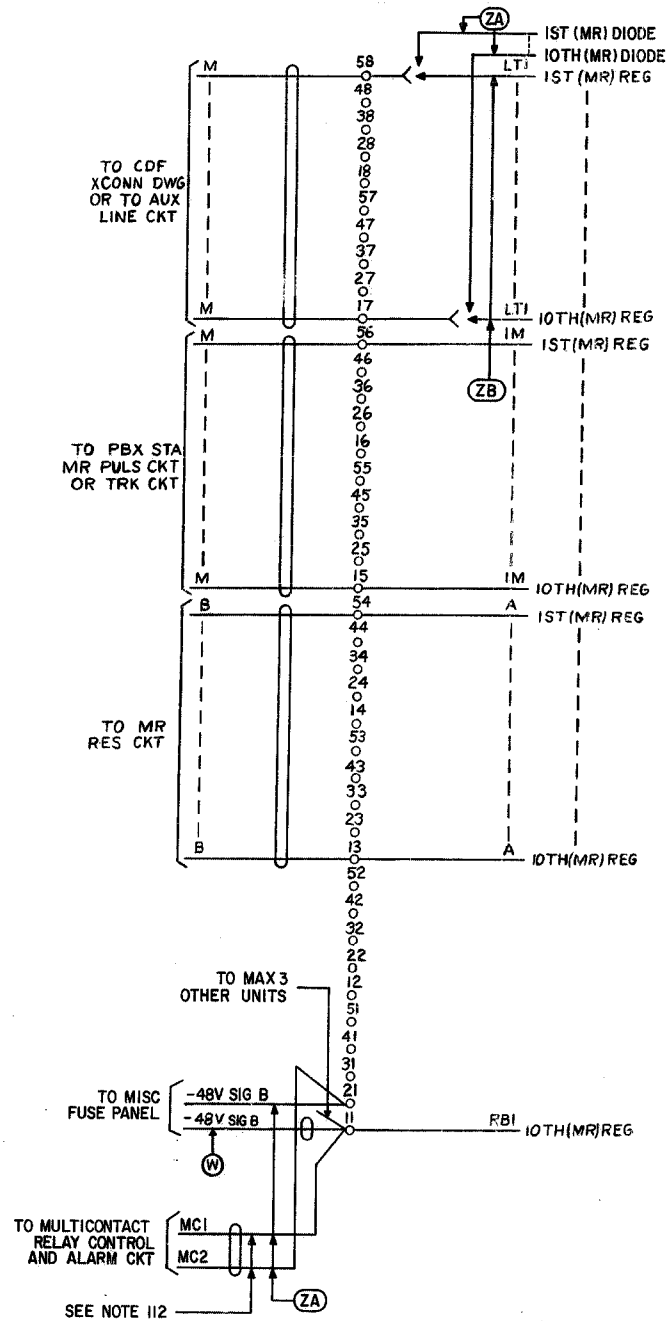


FIG. 64
(FOR 10 FIGS. 5 "F" APP ONLY)
FOR 355A OFFICE
MESSAGE REGISTERS PROVIDING MESSAGE
UNIT REPETITION TO PBX VIA 3RD WIRE

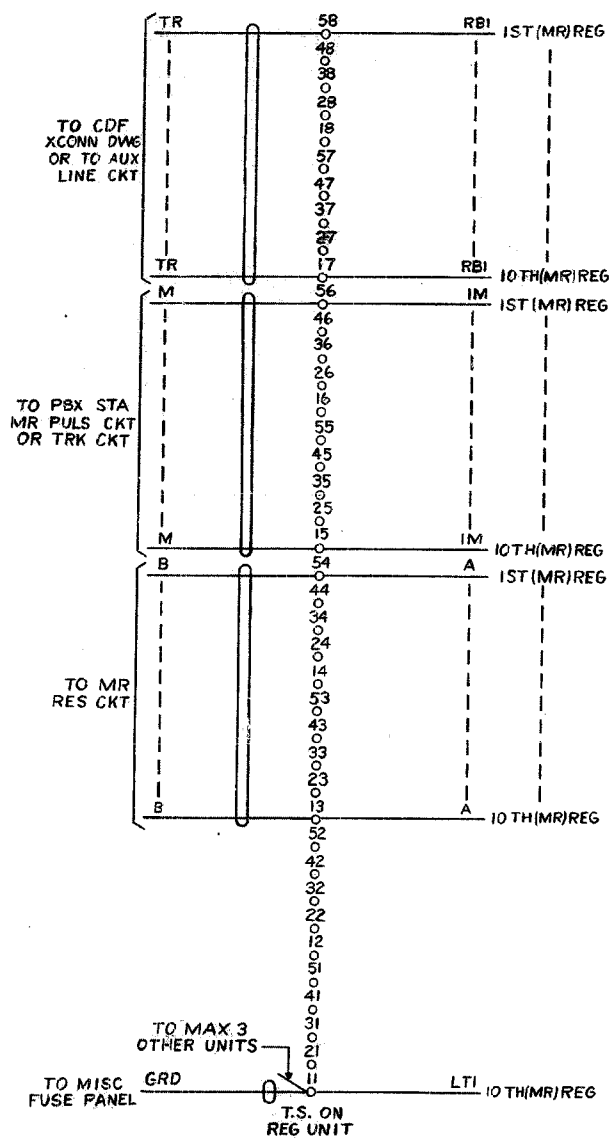


FIG. 65
(FOR FIG. 4 "G" APP OR FIG. 5 "F" APP ONLY)
FOR NO. 1 OR 350A OFFICE
MESSAGE REGISTERS PROVIDING MESSAGE
UNIT REPETITION TO PBX VIA 3RD WIRE
WITH OR WITHOUT OVERTIME CHARGING

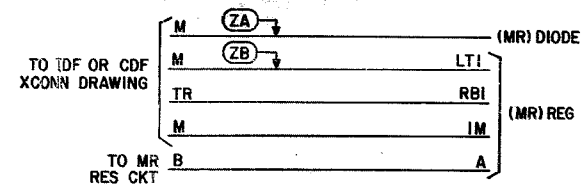
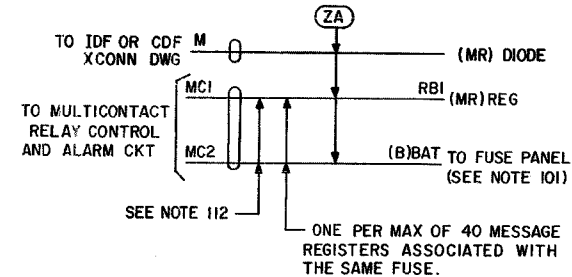


FIG. 66

(FOR FIG. 4)
SINGLE-PARTY, MESSAGE-RATE SERVICE
WITH OVERTIME CHARGING



DRAWING
ISSUE
15D
16D
17D
18D
19D

ISSUE
23D

SD-32133-01-4

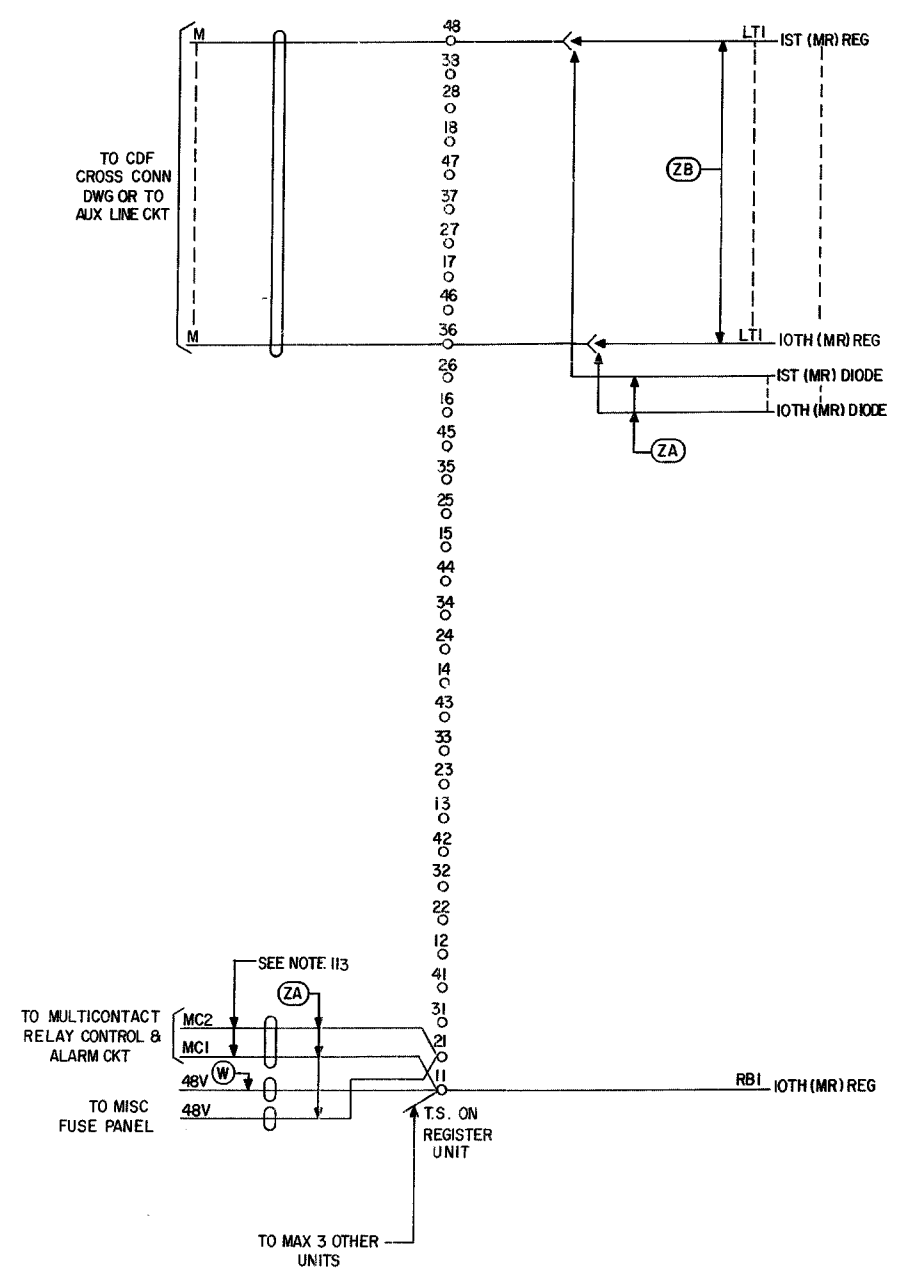
SUBSCRIBER LINE CIRCUIT		②	SD-32133-01-4
BELL TELEPHONE LABORATORIES INCORPORATED		DWG SIZE 6S	PRINTED IN U.S.A.

0 1 2 3 4 5 6 7 8 9

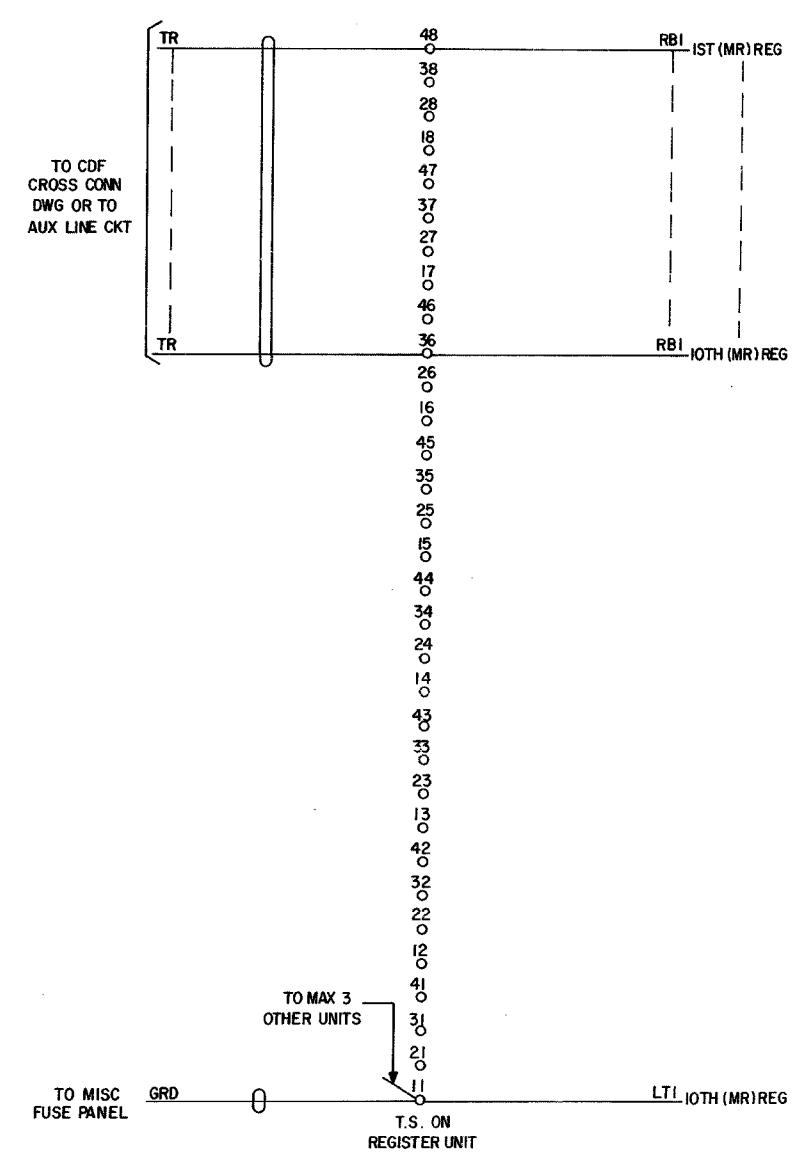
A
B
C
D
E
F
G
H

A
B
C
D
E
F
G
H

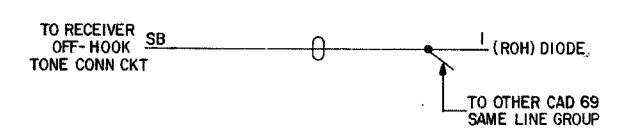
CAD 67
(FOR 10 FIGS. 4)
MESSAGE REGISTER 355A
OFFICE



CAD 68
(FOR 10 FIGS. 5)
MESSAGE REGISTER 355A
OFFICE



CAD 69
(FOR FIG. 1,2,3,9 OR 10 WITH ZC OPTION)



SUBSCRIBER LINE CIRCUIT		SD-32133-01-5
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6S		PRINTED IN U. S. A.

SD-32133-01-5