



CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
1-1/3		-48	CIRCUIT
1-1/3		+24	CIRCUIT
0.5		+130	CIRCUIT

BATTERY SYMBOL	VOLTAGE RANGE
-48	42.75-52.5V
+24	20.75-26.25V
+130	125-135V

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY
MF RECEIVER	1		1 PER CIRCUIT

103.

RECORD OF APP 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	MD

104.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	470	.13

105. THIS WIRING SHALL BE PROVIDED AT THE FERROD SENSORS.

106.

SCAN POINT ASSIGNMENT		
FAST	SUPERVISORY	DIRECT
0	1	2,3,4,5,6,7,8

EQUIPMENT NOTES:

201. ALL LEADS TERMINATING ON THE (PWR OFF) KEY SHALL HAVE ENOUGH WIRE TO FORM A LOOP SO THAT THE KEY MAY BE REMOVED FROM THE FRONT OF THE KEY FOR MAINTENANCE.

INFORMATION NOTES: (CONT)

303. FERROD SENSORS, ASSOCIATED WITH THIS CIRCUIT ARE IDENTIFIED BY A FUNCTIONAL DESIGNATION FOR INFORMATION PURPOSES ONLY.

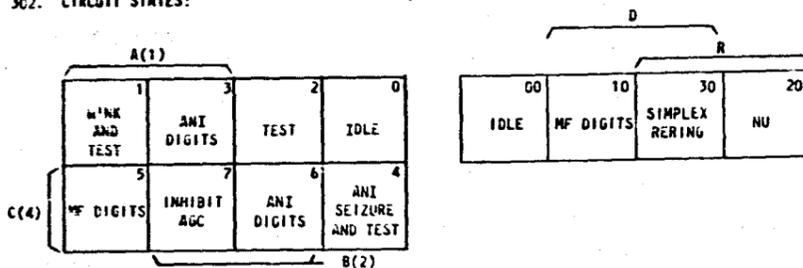
OPTION INDEX

APP OR WRG	LOCATION

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:  
RESISTANCE VALUES ARE IN OHMS.  
CAPACITANCE VALUES ARE IN MICROFARADS.  
VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

302. CIRCUIT STATES:



TYPICAL SEQUENCES  
LOOP MF CALL: 0-1-5-7-3-2-0  
EM OR GP WITH ANI: 0-4-6-2-0  
LOOP RF (ANI FAILURE): 0-1-5-1-0  
RERING: 00-10-20-10-00

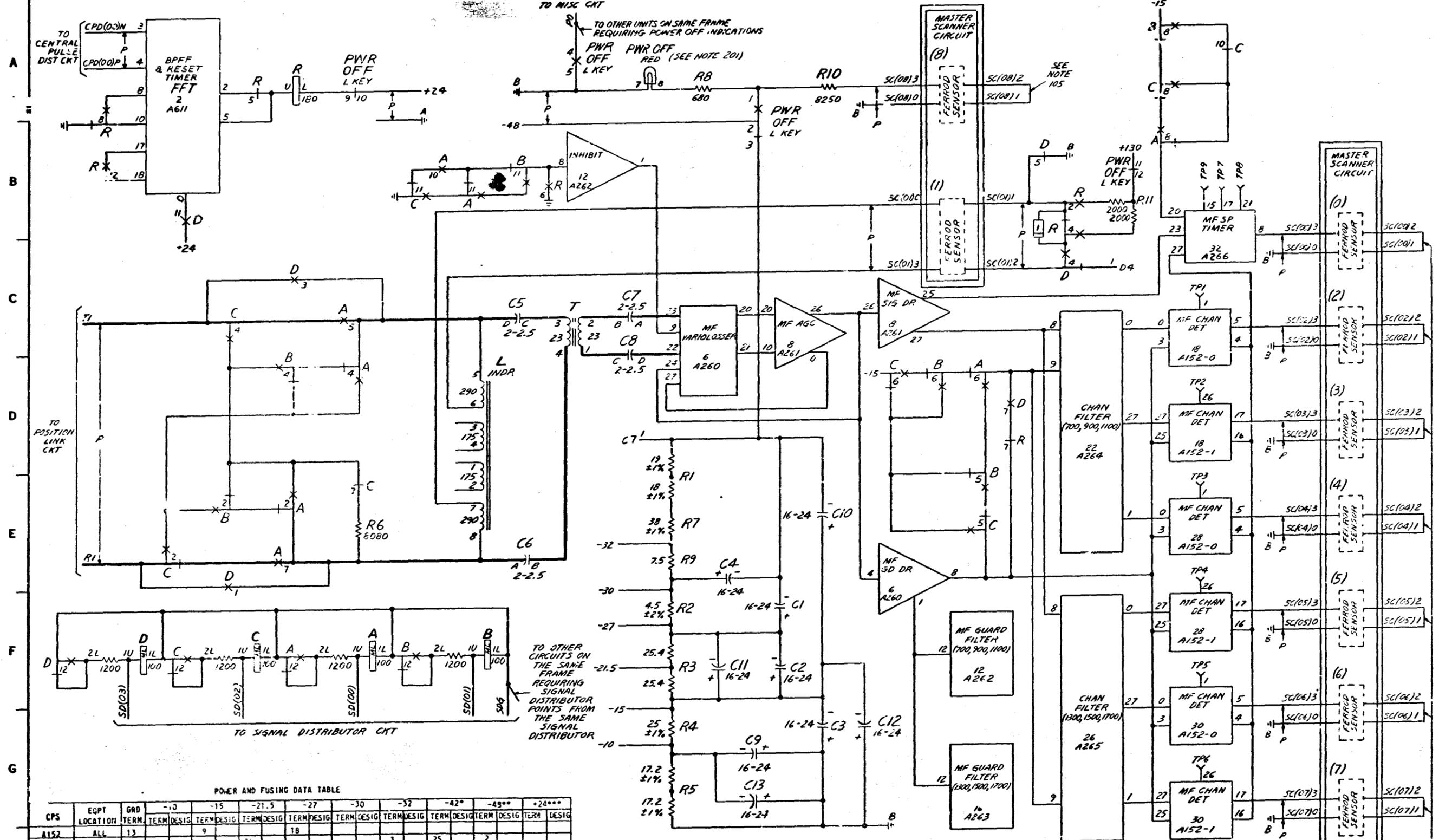
WORKING LIMITS:

- |    |                            |
|----|----------------------------|
| 1. | TRK SUPV                   |
|    | MAX EXT CKT LOOP RES 9200  |
|    | MIN INS RES 30,000         |
|    | BATTERY LIMITS 42.75-52.5V |
2. EACH OUTPUT (FROM CIRCUIT PACKS A152 AND A154) SHALL BE CONNECTED TO A SCANNER D TYPE FERROD SENSOR WITH 100 OHMS MAXIMUM EXT CIRCUIT RESISTANCE.

SD-1B011-01-2

MF RECEIVER CIRCUIT	2	SD-1B011-01-2
BELL TELEPHONE LABORATORIES INCORPORATED	65	

**FS I**  
MF RECEIVER CIRCUIT



POWER AND FUSING DATA TABLE

CPS	EQPT	GRD	-10	-15	-21.5	-27	-30	-32	-42*	-49**	+24***
LOCATION	TERM	TERM	DESIG	TERM	DESIG	TERM	DESIG	TERM	DESIG	TERM	DESIG
A152	ALL	13		9		18					
A260	ALL	13	7		26			3	25	2	
A261	ALL	13				18				2	
A262	ALL	13							4		
A263	ALL	13									
A26	ALL	13	7	9			4	2			14
A611	ALL	13									

\* -42 VOLTS IS DEVELOPED IN CP A260 AND SUPPLIES CP A262 AND CP A266.  
 \*\* VOLTAGE IS SUPPLIED ONLY VIA CONNECTION TO 3B OF (PWR OFF) KEY.  
 \*\*\* VOLTAGE IS SUPPLIED ONLY VIA CONNECTION TO 10B OF (PWR OFF) KEY.

SD-1B011-01-3

APP FIG. 1

CIRCUIT PACK																																
EQPT LOC	2		6		8		12		16		18		22		26		28		30		32								EQPT LOC			
DESIG	FFT		A26C		A261		A262		A263		A152		A264		A265		A152		A152		A266								DESIG			
CODE	A611		A26C		A261		A262		A263		A152		A264		A265		A152		A152		A266								CODE			
OPTION																																OPTION
ELEM IDENT																																ELEM IDENT
TERM.	DESIG	FS LOC	DESIG	FS LOC	TERM																											
27						3C5																								27		
26						3C5																									26	
25						3C5																									25	
24																															24	
23																															23	
22																															22	
21						3C4																									21	
20						3C4																									20	
19																															19	
18																															18	
17																															17	
16																															16	
15																															15	
14																															14	
13																															13	
12																															12	
11																															11	
10																															10	
9																															9	
8																															8	
7																															7	
6																															6	
5																															5	
4																															4	
3																															3	
2																															2	
1																															1	
0																															0	

RELAY												
DESIG	A		B		C		D				R	
CODE	AF148		ALT		ALT		ALT				AF148	
OPTION												
	CONT ARR	LOC										
12	EBM	3F1	EBM	3F2	EBM	3F0	EBM	3F0			M	3B0
11	EBM	3B2	EBM	3B3	EBM	3B2	EBM	3B1			M	
10	EBM	3B2	EBM		EBM	3A8	EBM				M	
9	EBM		EBM		EBM		EBM					
8	EBM	3B7	EBM	3A7	EBM	3A7	EBM				EBM	3B0
7	EBM	3E1	EBM		EBM	3E2	EBM	3D6			B	3D6
6	EBM	3D6	EBM	3D6	EBM	3D5	EBM				EBM	3B3
5	EBM	3C2	EBM	3E6	EBM	3E6	EBM	3B6			B	3A1
4	EBM	3D2	EBM	3D1	EBM	3C1	EBM	3C7			EBM	3C7
3	EBM	3D6	EBM		EBM		EBM	3C1				
2	EBM	3E1	EBM	3E1	EBM	3E3	EBM				M	3B7
1	EBM		EBM		EBM		EBM	3E1				
COIL		3F2		3F3		3F1		3F0				3A1

LAMP

DESIG	LOC	CODE
PWR OFF	3A4	A3

CAPACITOR

DESIG	LOC	CODE
C1	3F5	608A
C2	3F5	608A
C3	3G5	608A
C4	3E4	608A
(1) C5	3C3	437E
C6	3E3	
(1) C7	3C4	437E
C8	3C4	
C9	3G4	608A
C10	3E5	608A
C11	3F4	608A
C12	3G5	608A
C13	3G4	608A

NETWORK

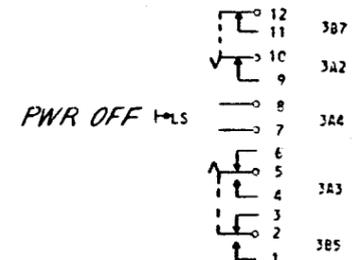
DESIG	LOC	CODE
R	3C7	185A

INDUCTOR

DESIG	LOC	CODE
L	3D3	1633G

KEY

630P



RESISTOR

DESIG	LOC	CODE
R1	3E4	19GY
R2	3F4	18GS
R3	3F4	19PT
R4	3G4	18DK
R5	3G4	19YP
R6	3E2	18FG
R7	3E4	18KM
R8	3A4	KS-19152, L2, 680
R9	3E4	KS-14603, L3C, 7.5
R10	3A5	146U, 925C
R11	3B7	19YM

TRANSFORMER

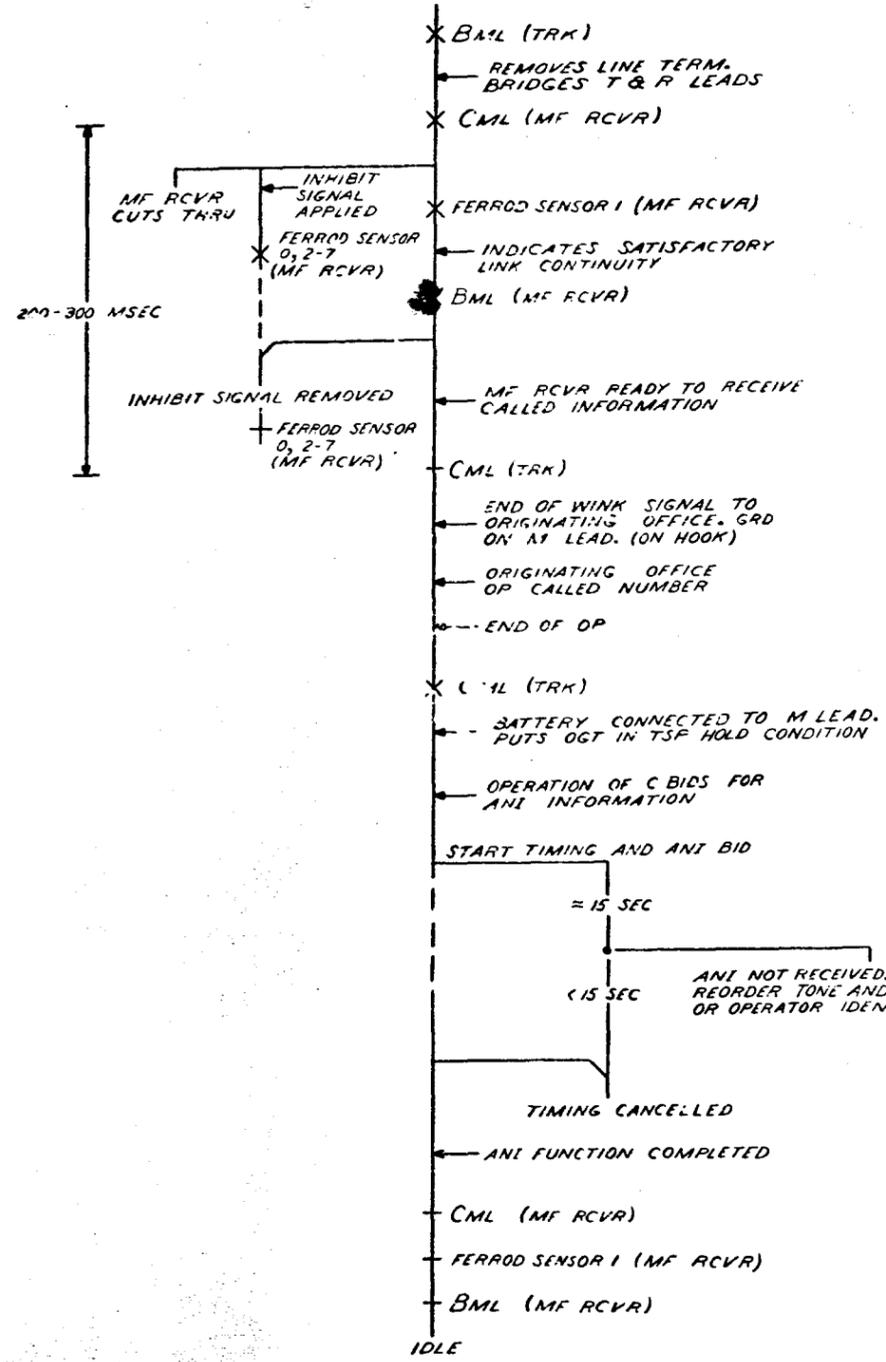
DESIG	LOC	CODE
T	3C3	261EA

SD-1B011-01-4

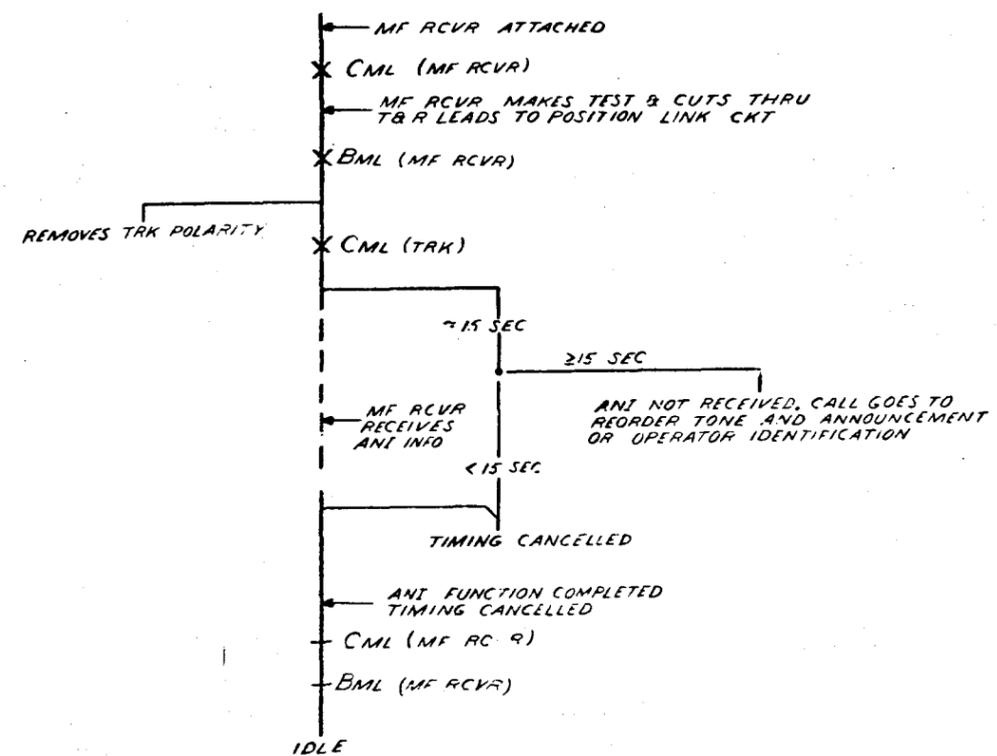
MF RECEIVER CIRCUIT	2	SD-1B011-01-4
BELL TELEPHONE LABORATORIES INCORPORATED		65



**SC 3**  
EM MF

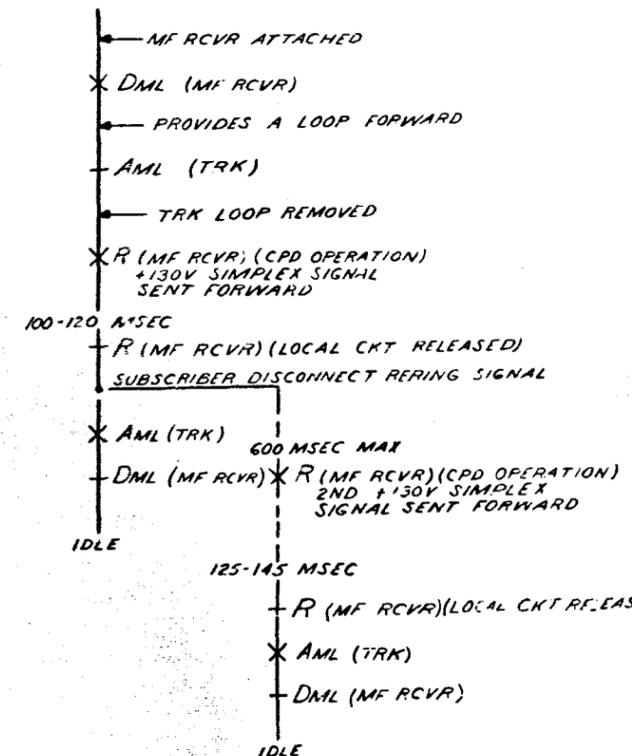


**SC 4**  
E&M DP WITH ANI



**SC 5**

RERING AND DISCONNECT ON RESIDUAL TYPE CALLS  
SUBSCRIBER FLASHING (1 RERING SIGNAL)  
SUBSCRIBER DISCONNECT (2 RERING SIGNALS)



SHEET NOTES:

1. THE SUBSCRIPT ML INDICATES THAT THE RELAY WAS OPERATED UNDER THE DIRECTION OF THE STORED PROGRAM CONTROL VIA THE SIGNAL DISTRIBUTOR CIRCUIT.

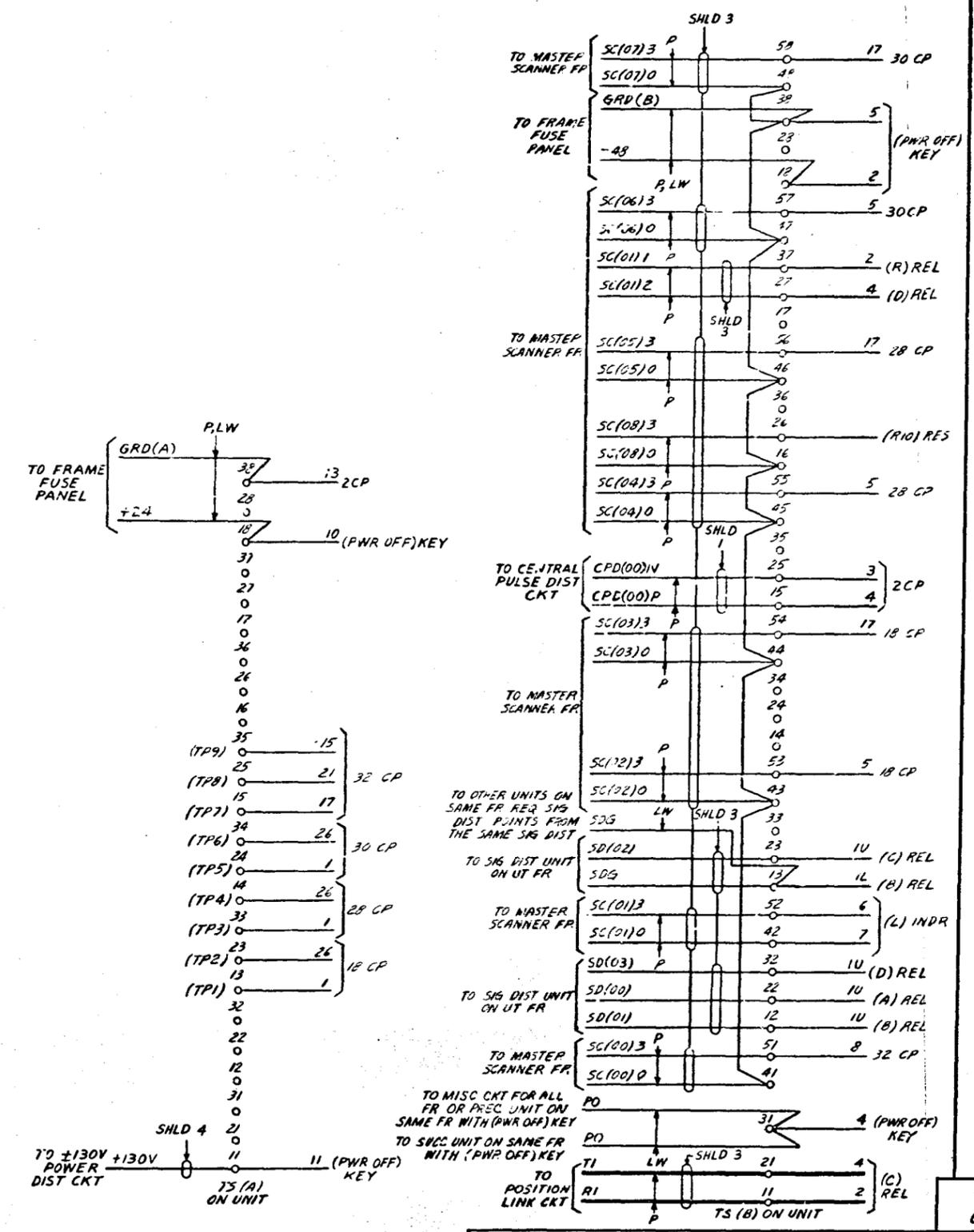
SD-IB011-01-6

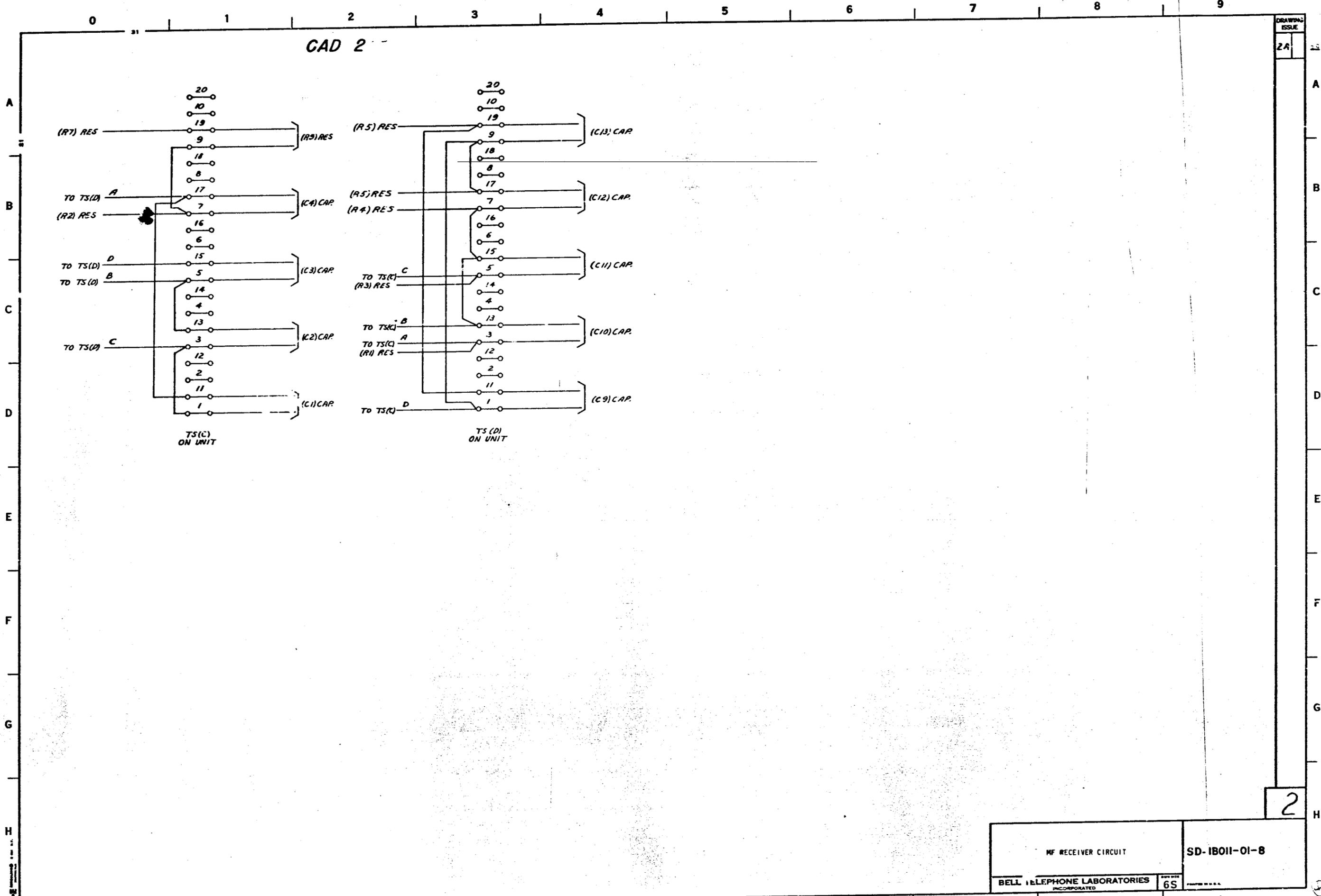
MF RECEIVER CIRCUIT		SD-IB011-01-6
BELL TELEPHONE LABORATORIES INCORPORATED	6S	

CIRCUIT REQUIREMENTS															DRAWING ISSUE		
TRAFFIC SERVICE POSITION SYSTEM NO. 1 MF RECEIVER CIRCUIT															1		
APPARATUS			MECH REQ			CIRCUIT PREPARATION			TEST SET			DIRECT CURRENT FLOW REQ			REMARKS	2A	
DESIG	CODE	OPT. FIG.	BSP FIG.	CONT PRES	ARM THVL	BLOCK OR INSULATE	TEST CLIP DATA	CONN BAT.	CONN GRD.	TEST SET PREP	SEE TEST NOTE	TEST WDG FOR	TEST FOR	AFTER SOAK		TEST READJ	1
RELAYS																	
A	ALT	1									1&2						
B	ALT	1									1&2						
C	ALT	1									1&2						
D	ALT	1									1&2						
R	AF142	1	280				L(R) U(R) B/G 1,3			0	41	39					
							L(R) U(R) B/G 1,3			M	26.8	25.5					
							L(R) U(R) B/G 1,3			R	10.7	11.3					

- TEST NOTES:
- OPERATE (PWR OFF) KEY BEFORE TESTING ANY RELAYS.
  - FOR TRIP OF ML RELAYS (ALT), SEE BSP 340-505-501.
  - REMOVE CP 4611 FROM CONNECTOR.

CAD 1





SD-1B011-01-8

MF RECEIVER CIRCUIT	SD-1B011-01-8
BELL TELEPHONE LABORATORIES <small>INCORPORATED</small>	65

2