

RMST = RING MACHINE START

FIG. 1, 2, 3 or 4

N.A.F.M.

H-580056

SHEET 2 OF 2

ISSUE 1
155:20
155:21
155:22
ISSUE 23

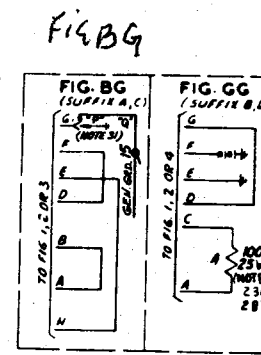
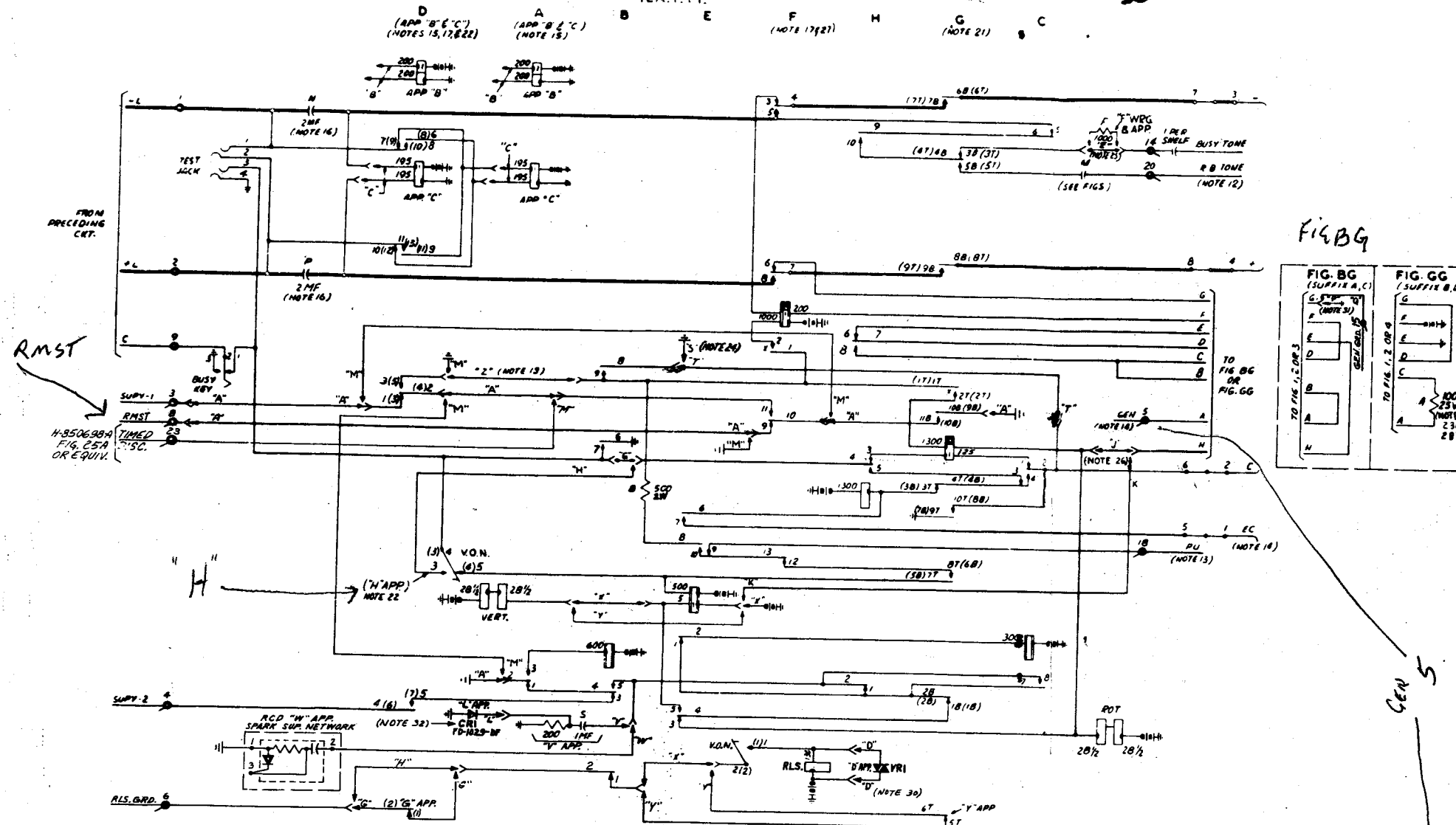
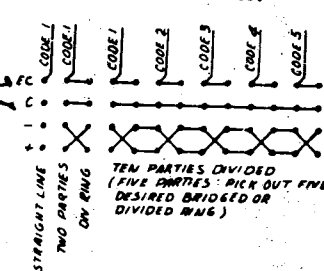


FIG. BC
TYPICAL BANK TERMINAL-BLOCK CONNECTIONS
(FOR REFERENCE ONLY)

NOTE: FOR TEN PARTY BRIDGED RINGING
CONNECT TEN RINGING CODES AS REQ.
USE HIGH IMP. RINGERS ON LINES HAVING
MORE THAN 5 BRIDGED RINGERS



RUN GEN 1 TO
#5
FOR STRAIGHT
LINE RING
STRAP ELEC?

M.F. GEN
will
HOOK ON
GEN. 1

RB TONE ON #20
GEN ON #5
GEN SKD ON #15
RING MACH START ON #8
LEAD P.V. ON #18
BUSY TONE ON #14
CONNECT ONE LEAD OF BUSY
TONE TO #14 AND THE OTHER
LEAD TO + GROUND (BATTERY).

CONNECTOR

H-580056

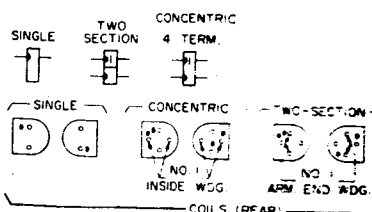
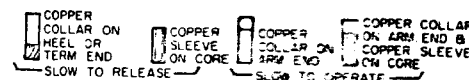
SHEET 2 OF 2

AUTOMATIC ELECTRIC COMPANY
NORTH LAKE, ILL., U.S.A. O GEND, ILL., U.S.A. O CAUKESHA, WISC., U.S.A. O

OPTION	ISSUES		NOTES
	FIRST USED	LAST USED	
A	1		SUFFIXES A-D
B	1	2	15
C	3		15
D	16		30
E	1	10	25
F	11		25
G	1	9	22
H	10		22
I			
J	1	11	26
K	12		26
L	16	17	32
M	19		SUFFIXES E & F
N			
O			
P	1	17	31
Q	18		31
R			
S	1	10	24
T	11		24
U			
V	1	22	
W	23		
X	1	7	21
Y	8		21
Z	1		19

MANUFACTURING NOTES (CONT'D):

- 18-FOR FIELD CONVERSION OF FIG'S. 1A, B, C OR D AND 2A, B, C OR D TO 1200 OHM LOOP OPERATION, SEE NOTES ON CIRCUIT ADJUSTMENT SHEET.
- 19-FOR LAST PARTY RELEASE, USE "Z" WIRING. FOR CALLING PARTY RELEASE, OMIT "Z" WIRING. (SEE SUFFIXES).
- 20-PRIOR TO ISSUE 6, RESISTOR "A" WAS PART OF FIG. 1, 2 OR 3.
- 21-PRIOR TO ISSUE 8, "X" WIRING & APPARATUS WERE PART OF THE CIRCUIT & THE NO. 1 WINDING OF RELAY E WAS 280 OHMS. "Y" WIRING & APPARATUS WHICH WERE NOT SHOWN, SUPERSEDE "X" WIRING & APPARATUS. RELAY G SPRING NO'S. IN () FOR "X" APPARATUS SPRING NO'S. NOT IN () FOR "Y" APPARATUS.
- 22-PRIOR TO ISSUE 10, "G" WIRING & APPARATUS WERE PART OF THE CIRCUIT AND "H" WIRING & APPARATUS WERE NOT SHOWN. "H" WIRING & APPARATUS SUPERSEDE "G" WIRING & APPARATUS. RELAY "D" SPRING NUMBERS AND V.O.N. SPRING NUMBERS IN () ARE FOR "G" APPARATUS, SPRING NUMBERS NOT IN () ARE FOR "H" APPARATUS.
- 23-PRIOR TO ISSUE 10, RESISTOR A (FIG. GG) WAS 250 OHMS 2W.
- 24-PRIOR TO ISSUE 11, "T" WIRING WAS NOT SHOWN AND "S" WIRING WAS PART OF CIRCUIT. "T" WIRING SUPERSEDES "S" WIRING.
- 25-PRIOR TO ISSUE 11, "E" WIRING WAS PART OF CIRCUIT AND "F" WIRING & APPARATUS WAS NOT SHOWN. "F" WIRING & APPARATUS SUPERSEDES "E" WIRING ON ALL FUTURE ORDERS.
- 26-PRIOR TO ISSUE 12, "J" WIRING WAS PART OF CIRCUIT AND "K" WIRING WAS NOT SHOWN. "K" WIRING SUPERSEDES "J" WIRING.
- 27-PRIOR TO ISSUE 14, CONNECTIONS TO THE "F" RELAY WERE GROUND TO THE "IN" TERMINALS AND BATTERY TO THE "OUT" TERMINALS.
- 28-PRIOR TO ISSUE 14, RESISTOR "A" IN FIGURE GG WAS 250 OHMS, 15W.
- 29-PRIOR TO ISSUE 14, SW JACK WAS 20 POINT.
- 30-PRIOR TO ISSUE 16, RELEASE-MAGNET COIL HAD 1000 OHM N-I WINDING, AND "D" WIRING & APPARATUS WERE NOT SHOWN. BEGINNING WITH ISSUE 16, OMIT RELEASE-MAGNET COIL'S N-I WINDING, AND PROVIDE "D" WIRING & APPARATUS. FOR FIELD CONVERSION, VARISTOR MAY BE ADDED WITHOUT RELEASE-MAGNET COIL CHANGE.
- 31-PRIOR TO ISSUE 18, "P" WIRING WAS PART OF FIG. BG. "Q" WIRING SUPERSEDES "P" WIRING.
- 32-IN ISSUE 16 & 17 APPARATUS & WIRING "L" WERE PART OF APPARATUS & WIRING "D". BEGINNING WITH ISSUE 18, APPARATUS & WIRING "L" ARE NO LONGER SUPPLIED.



- INDICATES INSIDE TERMINAL (START OF WINDING)
- JACK TERMINAL
- JACK TERMINAL (COMMON)

FIGURES:

- FIG. 1-RING BACK TONE CAP. "M" TO BE 0.04 MF WHEN ROTARY TYPE RINGING MACHINES ARE USED. SPECIFY SUFFIX A, B, C OR D.
- FIG. 2-RING BACK TONE CAP. "M" TO BE 0.005 MF WHEN VIBRATOR TYPE RINGING EQUIPMENT IS USED. SPECIFY SUFFIX A, B, C OR D.
- FIG. 3-RING BACK TONE CAP. "M" 0.04 MF. SUFFIX A, C, OR E (BATTERY-CONNECTED GENERATOR) ONLY.
- FIG. 4-RING BACK TONE CAPACITOR "M" 0.04 MF. SUFFIX B, D, OR F (GROUND-CONNECTED GENERATOR) ONLY.

MANUFACTURING NOTES:

- 10-CONTACTS "X" OPERATE FIRST.
- 11-SHELF JACKS 9 & 11 MAKE CONTACT WHEN SWITCH IS REMOVED.
- 12-CONNECT DIRECT GENERATOR OF DESIRED FREQUENCY TO RING BACK TONE LEAD.
- 13-USE P.U. FOR CODE OR 1 & 2 RING HARMONIC RINGING. FOR HARMONIC RINGING, CONNECT GROUND TO P.U. LEAD AT END OF SHELF.
- 14-CONNECT THE INT. LEADS TO THE EC BANK CONTACTS IN ACCORDANCE WITH THE RINGING CODE OR FREQUENCY ASSIGNED FOR THE CALL NUMBER CORRESPONDING TO THE BANK TERMINAL (DIR. GEN. OR INT. GEN. CONNECTED TO JACK 5).
- 15-STARTING WITH ISSUE 3, WIRING & APPARATUS "C" SUPERSEDE WIRING & APPARATUS "B". RELAYS A & D (APPARATUS "C") HAVE SANDWICH-WOUND CONCENTRIC COILS.
- 16-STARTING WITH ISSUE 3, CAPACITORS N & P ARE MATCHED WITHIN 5%.
- 17-SWITCHES FOR 1000 & 1200 OHM LOOP SERVICE DIFFER ONLY IN ADJUSTMENT OF RELAYS D & F.

STOCKLIST	DIS.	DESCRIPTION
DH-580056-36	(FIG. 4)	
DH-580056-35	(FIG. 3)	
DH-580056-34	(FIG. 4)	
DH-580056-33	(FIG. 3)	
DH-580056-32	(FIG. 1 & 2)	
DH-580056-31	(FIG. 4)	
RLDH-580056-3	(FIG. 4)	
RL-580056	(FIG. 1, 2 & 3)	
JL-580056		

ASSOCIATED DRAWINGS		
DRAWING NO.	ISS.	DESCRIPTION
AH-580056	22	ADJUSTMENT
E-580056	5	EXPLANATION

CONNECTOR CIRCUIT
TERMINAL PER STATION
CODE OR HARMONIC RINGING
GRD. OR BAT. GENERATOR

H-580056

EXCUT 1 OF 2

AUTOMATIC ELECTRIC COMPANY
NORTHLAKE, ILL., U.S.A.O. GEROA, ILL., U.S.A.O. WAUKESHA, WISC., U.S.A.O.

TRANSMISSION TEST REQUIREMENTS (1000 CYCLE LOSS BETWEEN 600 OHM LINES)				
MAX. ALLOWABLE CKT. LOSS (DB) 0.5				
SUFFIX				
• INDICATES APP. FOR WHICH INDIV. LOSSES ARE NOT REQ.				
ALLOWABLE INDIVIDUAL APPARATUS LOSSES (DB)				
APPARATUS	DESIG.	MAX. LOSS	MIN. LOSS	
RELAY 195/195	A, D	0.2	11.5	
CAPACITOR 2HF	N, P	14.5		

SUFFIX	RINGING GENERATOR		LAST-PARTY RELEASE (WRG. "A" & "Z")	CALLING-PARTY RELEASE (WRG. "A")	CALLING-PARTY RELEASE WITH TIMED DISCONNECTION (WIRING "M")
	BATT.-CONN. ON -LINE (FIG. BG)	GRD.-CONN. ON +LINE (FIG. GG)			
A	X		X		
B		X	X		
C	X			X	
D		X			
E	X				X
F		X			X

21118

CURRENT DRAIN DATA
HOLDING CURRENT AMPS.
0.30

DESIGNED P. BAKKER
APP'D. H. W. BALZER
SCALE: DATE: 10-24-74
DO NOT SCALE DRAWING

H-580056

950005-H

EXCUT 1 OF 2

23 1