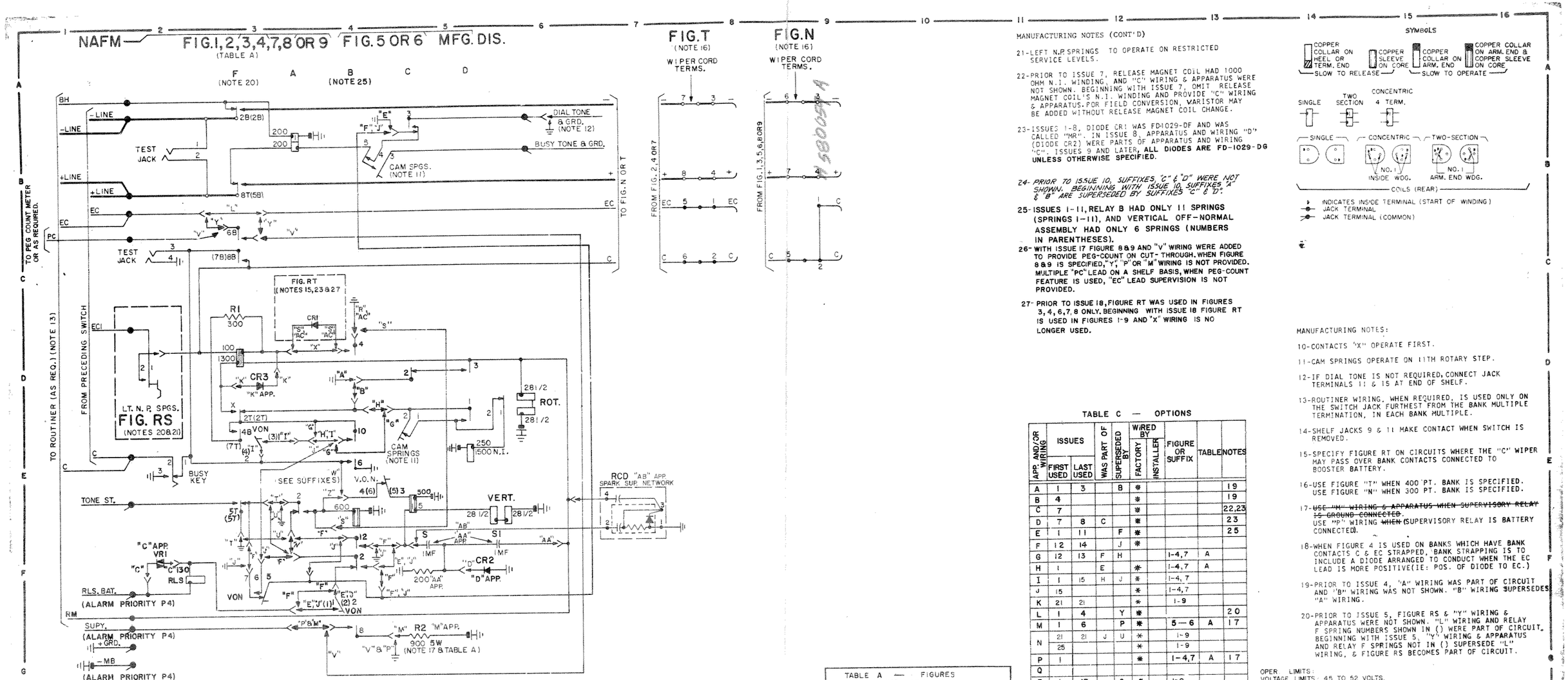

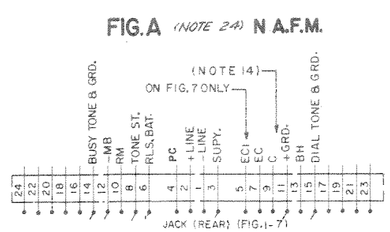

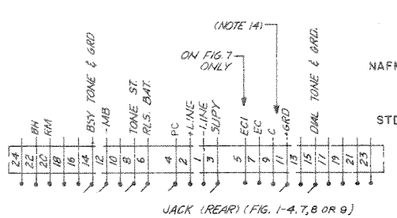

TABLE B — SUFFIXES

	SUFFIX	JACK WIRING FIG. A	JACK WIRING FIG. B	LOCAL OR INTERMEDIATE (WIRING "W")	INCOMING SELECTOR (WIRING "Z")
NAFM	A	*		*	
	B	*			*
STD.	C		*	*	
	D		*		*

TABLE A — FIGURES (NOTE 16)

	FIG.	WIRING X	WIRING P	"M" WRG. & APP.	FIGURES N	FIGURES T	FIGURES RT	FIGURES RS	WRG Y	WRG V
NAFM	1	*	*		*		*		*	
	2	*	*			*	*		*	
	3		*		*		*		*	
	4		*			*	*		*	
MFG DIS	5	*			*	*	*		*	
	6				*	*	*		*	
	7		*			*	*	*	*	
NAFM	8				*		*			*
	9				*		*			*

MANUFACTURING NOTES (CONT'D)

21-LEFT N.P SPRINGS TO OPERATE ON RESTRICTED SERVICE LEVELS.

22-PRIOR TO ISSUE 7, RELEASE MAGNET COIL HAD 1000 OHM N.I. WINDING, AND "C" WIRING & APPARATUS WERE NOT SHOWN. BEGINNING WITH ISSUE 7, OMIT RELEASE MAGNET COIL'S N.I. WINDING AND PROVIDE "C" WIRING & APPARATUS. FOR FIELD CONVERSION, VARISTOR MAY BE ADDED WITHOUT RELEASE MAGNET COIL CHANGE.

23-ISSUES 1-8, DIODE CR1 WAS FD-1029-DF AND WAS CALLED "MR". IN ISSUE 8, APPARATUS AND WIRING "D" (DIODE CR2) WERE PARTS OF APPARATUS AND WIRING "C". ISSUES 9 AND LATER, **ALL DIODES ARE FD-1029-DG UNLESS OTHERWISE SPECIFIED.**

24- PRIOR TO ISSUE 10, SUFFIXES "C" & "D" WERE NOT SHOWN. BEGINNING WITH ISSUE 10, SUFFIXES "A" & "B" ARE SUPERSEDED BY SUFFIXES "C" & "D".

25-ISSUES 1-11, RELAY B HAD ONLY 11 SPRINGS (SPRINGS 1-11), AND VERTICAL OFF-NORMAL ASSEMBLY HAD ONLY 6 SPRINGS (NUMBERS IN PARENTHESES).

26-WITH ISSUE 17 FIGURE 8 & 9 AND "V" WIRING WERE ADDED TO PROVIDE PEG-COUNT ON CUT-THROUGH. WHEN FIGURE 8 & 9 IS SPECIFIED, "Y", "P" OR "M" WIRING IS NOT PROVIDED. MULTIPLE "PC" LEAD ON A SHELF BASIS, WHEN PEG-COUNT FEATURE IS USED, "EC" LEAD SUPERVISION IS NOT PROVIDED.

27-PRIOR TO ISSUE 18, FIGURE RT WAS USED IN FIGURES 3, 4, 6, 7, 8 ONLY. BEGINNING WITH ISSUE 18 FIGURE RT IS USED IN FIGURES 1-9 AND "X" WIRING IS NO LONGER USED.

TABLE C — OPTIONS

APP. AND/OR WIRING	ISSUES FIRST USED	ISSUES LAST USED	WAS PART OF	SUPERSEDED BY	WIRED BY FACTORY	WIRED BY INSTALLER	FIGURE OR SUFFIX	TABLE	NOTES
A	1	3		B	*				19
B	4				*				19
C	7				*				22,23
D	7	8	C		*				23
E	1	11		F	*				25
F	12	14		J	*				
G	12	13	F	H			1-4,7	A	
H	1		E		*		1-4,7	A	
I	1	15	H	J	*		1-4,7		
J	15				*		1-4,7		
K	21	21			*		1-9		
L	1	4		Y	*				20
M	1	6		P	*		5—6	A	17
N	21	21	J	U	*		1-9		
	25				*		1-9		
P	1				*		1-4,7	A	17
Q									
R	1	17		S	*		1-9		
S	18	23			*		1-9		
T	1	21		U	*		1-9		
	25				*		1-9		
U	22	23			*		1-9		
V	17				*		8,9		26
W	1	9			*		A	B	24
	10						C,E		
X	1	17		S	*		1,2,5	A	27
Y	5				*			A	20
Z	1	9			*		B	B	24
	10						D		
AA	1	22		AB	*		1-9		
AB	23				*		1-9		
AC	25				*		1-9		

CURRENT DRAIN DATA AMPS.
HOLDING CURRENT .0385

SYMBOLS

COPPER COLLAR ON HEEL OR TERM. END — SLOW TO RELEASE
COPPER SLEEVE ON CORE
COPPER COLLAR ON ARM. END — SLOW TO OPERATE
COPPER COLLAR ON ARM. END & COPPER SLEEVE ON CORE

SINGLE
TWO SECTION
CONCENTRIC 4 TERM.

SINGLE — CONCENTRIC (NO. 1 INSIDE WDG.) — TWO-SECTION (NO. 1 ARM. END WDG.)
COILS (REAR)

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

MANUFACTURING NOTES:

10-CONTACTS "X" OPERATE FIRST.

11-CAM SPRINGS OPERATE ON 11TH ROTARY STEP.

12-IF DIAL TONE IS NOT REQUIRED, CONNECT JACK TERMINALS 11 & 15 AT END OF SHELF.

13-ROUTINER WIRING, WHEN REQUIRED, IS USED ONLY ON THE SWITCH JACK FURTHEST FROM THE BANK MULTIPLE TERMINATION, IN EACH BANK MULTIPLE.

14-SHELF JACKS 9 & 11 MAKE CONTACT WHEN SWITCH IS REMOVED.

15-SPECIFY FIGURE RT ON CIRCUITS WHERE THE "C" WIPER MAY PASS OVER BANK CONTACTS CONNECTED TO BOOSTER BATTERY.

16-USE FIGURE "T" WHEN 400 PT. BANK IS SPECIFIED. USE FIGURE "N" WHEN 300 PT. BANK IS SPECIFIED.

17-~~USE "M" WIRING & APPARATUS WHEN SUPERVISORY RELAY IS GROUND CONNECTED.~~ USE "P" WIRING ~~WHEN~~ (SUPERVISORY RELAY IS BATTERY CONNECTED).

18-WHEN FIGURE 4 IS USED ON BANKS WHICH HAVE BANK CONTACTS C & EC STRAPPED, BANK STRAPPING IS TO INCLUDE A DIODE ARRANGED TO CONDUCT WHEN THE EC LEAD IS MORE POSITIVE (IE: POS. OF DIODE TO EC.)

19-PRIOR TO ISSUE 4, "A" WIRING WAS PART OF CIRCUIT AND "B" WIRING WAS NOT SHOWN. "B" WIRING SUPERSEDES "A" WIRING.

20-PRIOR TO ISSUE 5, FIGURE RS & "Y" WIRING & APPARATUS WERE NOT SHOWN. "L" WIRING AND RELAY F SPRING NUMBERS SHOWN IN () WERE PART OF CIRCUIT, BEGINNING WITH ISSUE 5, "Y" WIRING & APPARATUS AND RELAY F SPRINGS NOT IN () SUPERSEDE "L" WIRING, & FIGURE RS BECOMES PART OF CIRCUIT.

OPER. LIMITS:
VOLTAGE LIMITS: 45 TO 52 VOLTS.
MAX. COND. LOOP RES. 1200 OHMS.
MIN. INSULATION RES. 15,000 OHMS.

STOCKLIST DH-580059-108 (FIG. 8)
STOCKLIST DH-580059-107 (FIG. 7)
STOCKLIST DH-580059-106 (FIG. 5)
STOCKLIST DH-580059-105 (FIG. 3)
STOCKLIST DH-580059-104 (FIG. 1)
STOCKLIST DH-580059-103 (FIG. 4)
STOCKLIST DH-580059-102 (FIG. 2)
RUNNING LIST RLDH-580059-A15
RUNNING LIST RLDH-580059-A14
RUNNING LIST RLDH-580059-A13
RUNNING LIST RLDH-580059-A12
RUNNING LIST RLDH-580059-A11
RUNNING LIST RLDH-580059-A10
MFG. DIS.
JUMPER LIST JL-580059-A

ASSOCIATED DRAWINGS		
DRAWING NO.	ISS.	DESCRIPTION
AH-580059-A	13	ADJUSTMENT
E-580059-A	12	EXPLANATION

4-4-67 E.W.C.

ISSUE	DESCRIPTION	BY
ISS. 1	DRAWING ISSUED	
ISS. 2	ADDED NOTE 27	T.J. 10-23-72
ISS. 3	ADDED "A" WIRING & APP.	J.L.C. 2-12-74
ISS. 4	ADDED "M" WIRING & APP.	J.L.C. 2-12-74
ISS. 5	ADDED NOTE 26 AND SUFFIX E.	A.F. 3-20-72
ISS. 6	ADDED NOTE 26 AND SUFFIX E.	J.L.K. 10-23-72
ISS. 7	ADDED NOTE 27	T.J. 10-23-72
ISS. 8	ADDED "B" WIRING & APP.	J.F.H. 10-23-72
ISS. 9	REDRAWN. ADDED NOTE 23.	A.F. 4-6-67
ISS. 10	IN ASSOC. DRAWING TABLE E AH-580059-A WAS ISS. 9	S.S. 11-8-68
ISS. 11		
ISS. 12		
ISS. 13		
ISS. 14		
ISS. 15		
ISS. 16		
ISS. 17		
ISS. 18		
ISS. 19		
ISS. 20		
ISS. 21		
ISS. 22		
ISS. 23		
ISS. 24		
ISS. 25		

DESIGNED R.F. VOGEL — DR. E.C.W.
APP'D. M.E. GRIFFINS — CK. G.S.
SCALE: — DATE: 10-9-59
DO NOT SCALE DRAWING

SELECTOR CIRCUIT
LOCAL OR INCOMING
BATTERY SEARCHING
ROUTINER ACCESS

H-580059-A

SHEET 1 OF 1

AUTOMATIC ELECTRIC COMPANY
NORTHLAKE, ILL., U.S.A. — SEATTLE, WASH., U.S.A. — WAUKEGAN, ILL., U.S.A.