

PM-1481 (REV. 4-71) 3-AH-610050-A 3-AH-610050-A
 3-9-60 EMC. 800 8-22-60 8-27-62
 ISSUE: #1 ISSUE: #2 ISSUE: #3

AH-610050-A

RELAYS	SPRING GAUGING	TEST FOR	RESIST. AT 50V		CURRENT		TEST	TESTING INSTRUCTIONS
			READJ.	TEST	READJ.	TEST		
A FIGS. 1&2 R-2215-A1 D-280026-A/B #1-200 Ω #2-200 Ω GR-2215-A1		NO. 1 0 NO	2960 3080	2910 3190	.0148 .0144	.0151 .0139	1. 5	SPGS. 1 & 2 MAY BREAK ON N. O. TESTS... MIN. TENSION OF SPG. 5 TO BE 35 GRAMS. CONNECT RESISTANCE ACROSS SPGS. 3 & 8 OF RLY. H.
B R-8018-A2 D-282349-A/B #1-600 Ω GR-8018-A2 SR		NO. 1 0 NO	1570 1790	1350 2000	.0230 .0207	.0256 .0192	8	POS. TO SPG. 3 OF RLY. A.
C R-6351-A2 D-282224-A/B #1-231 Ω (300-1000 ΩNI) SR		NO. 1 0 NO	1540 1760	1380 1920	.0282 .0251	.031 .0232	8	POS. TO SPG. 4 OF RLY. G.
D R-5396-C1 D-282659-A/B #1-1300 Ω #2-500 Ω NI SO		NO. 1 0 NO	1700 2400	1400 2700	.0167 .0135	.0185 .0125		POS. TO COIL TERM. NEAREST TO SPGS.
E R-5415-B5 D-281053-A/B #1-800 Ω GR-5415-B5 SR		NO. 1 0 NO	2180 2620	1900 2960	.0168 .0146	.0185 .0133		POS. TO SPG. 9 OF RLY. B.
F R-7006-D2 D-284016-A/B #1-2000 Ω GR-7006-D2		NO. 1 0 NO	2580 3440	2200 4020	.0109 .0092	.0119 .0083		POS. TO SPG. 7 OF RLY. F.

EXPLANATION OF TERMS
 1- INSIDE OR ARMATURE END WINDING.
 2- OUTSIDE OR REEL END WINDING.
 SA- SLOW TO OPERATE & SLOW TO RELEASE.
 SR- SLOW TO RELEASE; SO- SLOW TO OPERATE.
 AC- ALTERNATING CURRENT.
 O- OPER.; NO- NON-OPER.; H- HOLD; R- RISE.
 RESID.- RESIDUAL ADJUSTMENT VALUE. TEST
 VALUES ARE FOR INSPECTION ONLY. READJ.
 VALUES ARE FOR ADJUSTING ONLY. CURRENT
 IS SHOWN IN AMPERES. POS.- TEST WITH POSITIVE
 BATTERY THRU RESISTANCE OF TEST SET.
 NEG.- TEST WITH NEGATIVE BATTERY THRU
 RESISTANCE OF TEST SET.

NOTES
 1- TEST WITH BOTH WINDINGS IN SERIES.
 2- TEST WITH VERTICAL MAGNET IN SERIES.
 3- TEST WITH ROTARY MAGNET IN SERIES.
 4- NO. 1 WINDING TO OPER. NO. 1 SPRING
 ONLY.
 5- SPRINGS NEED ONLY MAKE CONTACT ON
 OPERATE TESTS.
 6- BOTH TESTS MADE ON NO. 1 WINDING.
 NO. 1 TEST IS FOR NO. 1 SPRING ONLY.
 7- CONNECT RESIST ACROSS TEST JACKS 1 & 2.
 8- SHORT LEVER ARM. RESID MIN. .0018 MAX .004.

GEN.: OPERATE BUSY KEY WHILE
 TESTING.

STANDARD ADJUSTMENTS 100 101 110

TYPE. DB ENG. VEA APP. ABN OK.

AUTOMATIC ELECTRIC COMPANY
 NORTHLAKE, ILLINOIS, U.S.A.

RELAY ADJUSTMENT SHEET

OUTGOING TRUNK CIRCUIT
 E & M TO CMA OFFICE PAY
 STATION RESTRICTION WITH
 RECORDED MESSAGE

CNT. H-610050-A 2 SHEETS 1

AH-610050-A

TCI Library www.telephonecollectors.info

9-13-72
TSS: #11
RW 9-13-72

AH- 610050-B

*	DESCRIPTION	MFG. ADJ.	FIELD G.S.P.	EXPLANATION OF TERMS
*	GENERAL REQUIREMENTS	100		- * DENOTES APPLICABLE ADJUSTMENTS.
*	SW. TEST & SH. JKS., ETC.	101	230-005-703	- #1 - INSIDE OR ARMATURE END WINDING.
*	CLASS A & Z	110	040-500-706	- #2 - OUTSIDE OR HEEL END WINDING.
	" B	300	040-500-502	- S.L.A. = SHORT LEVER ARMATURE.
	" C	301	040-500-502	S.R. = SLOW TO RELEASE. S.O. = SLOW TO OPERATE.
	" W	784	040-500-102	A.C. = ALTERNATING CURRENT.
	TYPE 10 A.C.	118	040-501-702	O = OPERATE. N.O. = NON-OPERATE. H = HOLD.
	TYPE 59 CODEL UNIT	783	040-500-501	R = RELEASE. O.C. = OPEN CIRCUIT.
	V. O. N.	120		RESID. = RESIDUAL ADJUSTMENT VALUE.
	CUP & SHAFT SPGS.	121		- TEST VALUES ARE FOR INSPECTION ONLY.
	CAM SPGS.	122		- READJ. VALUES ARE FOR ADJUSTING ONLY.
	NORMAL POST	123		- CURRENT IS SHOWN IN AMPERES.
		124		- POS. = TEST WITH POSITIVE BAT. THRU RESIST. OF TEST SET.
	RLSE. SPGS.	126	230-005-703	- NEG. = TEST WITH NEGATIVE BAT. THRU RESIST. OF TEST SET.
	KERO. MECH.	130		- RELAYS PREFIXED BY GR OR GT HAVE WIRE WRAP TERMINALS.
	DOGS	131		RELAYS PREFIXED BY R OR RT HAVE SOLDER TERMINALS.
	ROT. MECH.	132		THIS ADJUSTMENT APPLIES IN EITHER CASE.
	RLSE. MECH.	133		<u> X </u> WIRE WRAP TERM. <u> </u> SOLDERED TERM.
	SHAFTS, WIPERS, ETC.	135		- NOTES -
	MINOR SW.	136	230-007-708	1--TEST WITH BOTH WINDINGS IN SERIES.
	TESTING LP PULSED SWS.	144		2-- #1 WINDING TO OPERATE #1 SPRING ONLY .
	TESTING SX F'ULSED SWS.	145	230-200-504	3-- SPRINGS NEED ONLY MAKE CONTACT ON OPERATE TESTS.
	TIMING SWITCHES & RLYS,	146		4-- BOTH TESTS MADE ON #1 WINDING.
	44 ROT. SW.	163	230-007-706	#1 TEST IS FOR #1 SPRING ONLY.
	45 " "	162	230-007-705	5-- CONNECT RESISTANCE ACROSS TEST JACKS 1 & 2.
	SHUNT FIELD RELAY	175	040-500-706	6-- SHORT LEVER ARM. RESIDUAL MIN. .0015" , MAX .004" .
	280 POLAR RLY.	201	040-401-701	GEN.: OPERATE BUSY KEY WHILE TESTING.
	KEYS	753	032-305-700	
	SWITCHBOARD JACKS	754	032-320-700	
				SWITCH STAND ROT. SWITCH TEST POSITION OUTGOING TRUNK CKT. TO CAMA OFFICE E & M SIG, OPTIONAL ELECTRONIC PULSE CORRECTOR & SWITCHABLE 2DB PAD
				REF. G.S.P. • 108-104-102 APP'D.: ABN

AUTOMATIC ELECTRIC COMPANY
NORTHLAKE, ILLINOIS, U.S.A.

ENG.: VEAE
CIRCUIT OR SWITCH ADJUSTMENT

CKT.: H-610050-B 7 SHEETS 1
AH-610050-B

FM-1460 (REV. 9/69)

20648

4-12-71 9-13-72
ISS:#10 ISS:#11

SIZE

AH-610050-B

A

SHEET 2

TOTAL

7

AUTOMATIC ELECTRIC COMPANY
NORTHLAKE, ILL., U.S.A. ● GENOA, ILL., U.S.A. ○ WAUKESHA, WISC., U.S.A. ○

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NOTE 7: PULSE REPEATING TEST

FOR OUTGOING PULSES (RELAY A) (WITHOUT PULSE CORRECTOR)

1. SWITCH PREPARATION: OPERATE "BSY." AND "OPT" KEYS.
2. TEST SET PREPARATION: CORD FROM "LP OUT" AND "LP IN" JACKS TO 6-POINT PLUG (SEE H-85388, FIG. 2). INSERT CORD PLUG INTO TEST JACKS 1-6 OF SWITCH,
3. APPLY TO TEST JACKS 1 & 2 LP PULSES 12 PPS, 68.5% BREAK WITH 1200 Ω LOOP, AND 60.5% BREAK WITH LEAK A TO MEET LOCAL LOOP AND LEAK PULSE REPEATING REQUIREMENTS.
4. MEASURE LOOP PULSES AT TEST JACKS 5 & 6, REQUIRE PULSES TO BE WITHIN 52-76% BREAK LIMITS.
5. TO MEET ABOVE REQUIREMENTS, RELAY A **MAY** BE RETENSIONED OUTSIDE SPECIFIED MARGIN LIMITS, BUT THEN ITS MARGIN SHALL BE WITHIN LIMITS: NON-OPERATE .014 AMP., OPERATE .0176 **AMP**,

FOR OUTGOING PULSES (RELAYS A & E) (WITH PULSE CORRECTOR)

1. SWITCH PREPARATION: OPERATE "BSY." AND "OPT" KEYS.
2. TEST SET PREPARATION: CORD FROM "LP OUT" AND "LP IN" JACKS TO 6-POINT PLUG (SEE H-85388, FIG. 2). INSERT CORD PLUG INTO THE TEST JACKS 1-6 OF SWITCH,
3. APPLY TO TEST JACKS 1 & 2 LP PULSES 12 PPS 59% BREAK,
4. MEASURE LOOP PULSES AT TEST JACKS 5 & 6. REQUIRE PULSES BREAK 56-60% ADJ., 55-61% TEST,
5. TO MEET ABOVE REQUIREMENTS, RELAY E **MAY** BE RETENSIONED OUTSIDE SPECIFIED MARGIN LIMITS, BUT THEN ITS MARGIN SHALL BE WITHIN LIMITS: NON-OPERATE .014 AMP., OPERATE .018 AMP,

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NORTHLAKE, ILLINOIS, U.S.A.

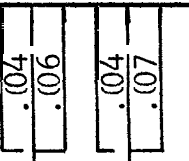
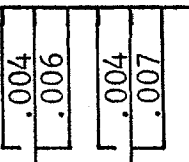
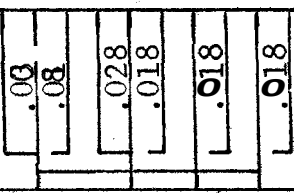
CIRCUIT OR SWITCH ADJUSTMENT

CKT.:H-610050-B 7 SHEET 2
AH-610050-B

NOTES CONTINUED

8. OPERATE AND NON-OPERATE VALUES FOR FOR USE WHEN TIMING REQUIREMENTS ARE NOT APPLIED.
9. HOLD AND RELEASE VALUES ARE USED FOR MAINTENANCE PURPOSES WHEN TIMING REQUIREMENTS ARE APPLIED. AFTER TIMING, RELAY MUST MEET TEST AND/OR INSPECTION REQUIREMENTS OF A-110.
10. TEST HOLD - USE 1400 - LOOP IN PULSING TEST SET.
11. TEST HOLD - USE LEAK "A" IN PULSING TEST SET.
12. FOLLOW TESTING INSTRUCTIONS FOR TIMING OF RELAYS.

CKTS. H-85681, H-850046 OR EQUIV.

RELAYS	SPRING GAUGING	TEST	RESIST. AT SOV.		CURRENT		SE NO	TESTING INSTRUCTIONS
			READJ.	TEST	READJ.	TEST		
A FIGS.1 - 4 GR-2215-B1 D-284459-B #1-210 Ω #2-210 Ω NIC-IRGN CORE	009 RESD 	NO NO	2650 2780	2590 2850	.0163 .0156	.0166 .0153	1 3 5 7	SPGS.1 & 2 MAY BREAK ON NON-OPERATE TESTS. MIN. SPG. TENSION OF SPG.5 TO BE 30 GRAMS.
A FIG.1, ETC. GR-6807-A3 D-284459-B #1-210 Ω #2-210 Ω NIC-IRON CORE	009 RES ID. 	NO NO	2650 2780	2590 2850	.0163 .0156	.0166 .0153	1 3 5 7	SPGS.1 & 2 MAY BREAK ON NON-OPERATE TESTS. MIN. SPG. TENSION OF SPG.5 TO BE 30 GRAMS. INS. SPGS. 5 & 6 OF RLY. B.
B FIGS.1-4 GR-8018-A2A D-282349-B #1-600 a- SR	003 RESD. 	NO NO	1570 1790	1350 2000	.0230 .0209	.0256 .0192	6	POS. TO SPG. 3 OF RLY. A.
FIGS.1-4 & 6-9 SHORT LEVER ARM. THIS RELAY SUPPLIED PRIOR TO ISSUE 4. THIS RELAY SUPPLIED BEGINNING WITH ISS.4.								

AUTOMATIC ELECTRIC COMPANY
NORTHLAKE, ILLINOIS, U.S.A.

CIRCUIT OR SWITCH ADJUSTMENT

CKT: H-610050-B / SHEETS 3
AH-610050-B

11-1-69 4-12-71 9-13-72 ISS: #9 ISS: #10 ISS: #11											AH-610050-B						
RELAYS	SPRING GAUGING						TEST FOR:	RESIST. AT 50V.		CURRENT		SE NO	TESTING INSTRUCTIONS				
							READJ.	TEST	READJ.	TEST							
B FIGS.1-10 GR-8018-A2B D-282349-B #1-600 Ω SR	NOE	YES	.028	.016	.026	.016	.016	SHORT LEVER ARM.	NO. 1	O NO	1700 1900	1500 2100	.0217 .0200	.0238 .0185	8	RESID. TO BE MIN. .0015", MAX. .003". POS. TO SPG. 3 OF RLY. A,	
									NO. 2						9	READJ. TEST	
															10	H .225 SEC. 1400 LOOP R .375 SEC. .500 SEC.	
THIS RELAY SUPPLIED BEGINNING WITH ISS. 4. THIS RELAY SUPPLIED PRIOR TO ISSUE 7.																	
C, FIG. 1, ETC. GR-6343-B3 D-281676-B #1-231 Ω (300-1000 Ω NI) SR	O	±1 R ID.						SHORT LEVER ARM.	NO. 1	O NO	1280 1540	1120 1760	.033 .0282	.037 .0251	6	INS. SPGS. 6 & 7 OF RLY. C.	
															8	POS. TO SPG. 6 OF RLY. B.	
									NO. 2						9	READJ. TEST	
															11	H .111 SEC. LEAK A	
															12	R .200 SEC. .250 SEC.	
FIGS. 1-4 & 6-9 THIS RELAY SUPPLIED PRIOR TO ISSUE 4.																	
C GR-6281-B7 D-281676-B #1-231 Ω (300-1000 Ω NI) SR	.003±1 RE D.							SHORT LEVER ARM.	NO. 1	O NO	1350 1550	1200 1700	.0315 .0280	.0350 .0259	8	INS. SPGS. 1 & 2 OF RLY. G.	
															9	READJ. TEST	
									NO. 2						11	H .111 SEC. LEAK A	
															12	R .200 SEC. .250 SEC.	
THIS RELAY SUPPLIED BEGINNING WITH ISS. 4.																	
D FIGS. 8 & 9 GR-6178-C5 D-282106-B #1-300 Ω #2-950	.0015 RESID.		.024	.020	.011	.010	.006		NO. 1	O NO	2700 3000	2400 3300	.0167 .0152	.0185 .0139	2	NEG. BAT. TO SPG. 1 OF RLY. C.	
																POS. TO TEST JACK 7.	
									NO. 2	O NO	1150 1450	950 1700	.0238 .0208	.0263 .0189		POS. TO SPG. 2 OF RLY. D.	
THIS RELAY SUPPLIED BEGINNING WITH ISS. 4.																	
E FIGS. 7 & 8 GR-769-C2A D-281909-B #1-700 Ω	.006±1 RE ID.								NO. 1	O NO	2390 2550	2240 2680	.0162 .0154	.0170 .0148	3	INS. SPGS. 7 & 8 OF RLY. H,	
															7	POS. TO SPG. 8 OF RLY. G.	
									NO. 2								
THIS RELAY SUPPLIED BEGINNING WITH ISS. 4.																	
F FIGS. 1 - 5 GR-5490-B7 D-281919-B #1-1300 Ω #2-1250 Ω	.0015 RESID.		.013	.010	.009	.004			NO. 1	O NO	2170 2940	1840 3370	.0144 .0118	.0159 .0107		POS. TO SPG. 7 OF RLY. G.	
									NO. 2								
THIS RELAY SUPPLIED PRIOR TO ISSUE 7.																	
(SEE SHEET 6)																	
AUTOMATIC ELECTRIC COMPANY																	
NORTHLAKE, ILLINOIS, U.S.A.																	
CIRCUIT OR SWITCH ADJUSTMENT																	
CKT.: H- 610050-B 7 SHEETS 4																	
AH- 610050-B																	

FM-1462 (REV. 3-69)

RELAYS	SPRING GAUGING						TEST FOR:		RESIST. AT 50V.		CURRENT		SEE NOTE	TESTING INSTRUCTIONS
							NO. 1		READJ.	TEST	READJ.	TEST		
K FIGS.1-5 GR-7430-A4 D-281244-B #1-4350 Ω #2-1500 Ω	.0015	.026	.022	.013	.009	.004	NO	O	2150	1800	.0064	.0067	2	TEST IN SERIES WITH 1300 Ω . POS. TO SPG. 3 OF RLY. B.
							NO	O	2950	3200	.0058	.0056		
							NO. 2	O	700	500	.0227	.0249		INS. SPGS. 1 & 2 OF RLY. K.
							NO		1150	1400	.0189	.0172		POS. TO SPG. 6 OF RLY. K.
THIS RELAY SUPPLIED BEGINNING WITH ISS.6. THIS RELAY SUPPLIED PRIOR TO ISSUE 7.														
B GR-8124-A1C D-282349-B #1-600 Ω	NOTE	.028	.016	.026	.016	.016	NO. 1	O	1700	1500	.0217	.0238	8	INS. SPGS. 3 & 4 OF RLY. F.
							NO		1900	2100	.0200	.0185		POS. TO SPG.3 OF RLY. A.
SR							NO. 2						9	
													10	READJ. TEST H .225 SEC. 1400 LOOP R .375 SEC. .500 SEC.
S.L.A. RESID. TO BE MIN. .0015", MAX. .003". THIS RELAY SUPPLIED BEGINNING WITH ISS.7.														
C FIGS.1-4 GR-6493-A9 D-281676-B #1-231 Ω (300-1000 Ω NI) SR	.003±1	RESID.	SHORT LEVER ARM.	.018	.018	.026	NO. 1	O	970	870	.0415	.0455	6	INS. SPGS. 1 & 2 OF RLY. G.
							NO		1140	1260	.0365	.0335	8	POS. TO SPG. 6 OF RLY. B.
							NO. 2						9	
													11	READJ. TEST H .111 SEC. LEAK A
													12	R .200 SEC. .250 SEC.
THIS RELAY SUPPLIED BEGINNING WITH ISS.7.														
F FIGS.1-5 GR-7064-A3 D-281316-B #1-2000 Ω #2-1500 Ω	.0015	.015	.014	.013	.006	.009	NO. 1							
							NO. 2	O	1100	890	.0192	.0209		INS. SPGS. 7 & 8 OF RLY. G,
							NO		1440	1840	.0170	.0159		POS. TO SPG. 7 OF RLY. G.
THIS RELAY SUPPLIED BEGINNING WITH ISS.7.														
K GR-7446-A3 D-280586-B #1-1600 Ω	.0015	.013	.009	.004	.009	.004	NO. 1	O	4350	3800	.0084	.0092		POS. TO SPG. 4 OF RLY. K.
							NO		5650	6300	.0069	.0063		
							NO. 2							
THIS RELAY SUPPLIED BEGINNING WITH ISS.7.														
C FIG.5 GR-8686-A7 D-281676-A #1-231 Ω (300-1000 Ω NI)	.0015	.030	.028	.026	.018	.018	NO. 1	O	970	870	.0415	.0455	8	INS. SPGS. 1 & 2 OF RLY. G.
							NO		1140	1260	.0365	.0335		POS. TO SPG. 6 OF RLY. B.
							NO. 2						9	
													11	READJ. TEST H .111 SEC. LEAK A
													12	R .200 SEC. .250 SEC.
THIS RELAY SUPPLIED BEGINNING WITH ISS. 7.														

AUTOMATIC ELECTRIC COMPANY
NORTHLAKE, ILLINOIS, U.S.A.

CIRCUIT OR SWITCH ADJUSTMENT

CKT.: H- 610050-B 7 SHEETS 6
AH- 610050-B

RELAYS	SPRING GAUGING								TEST FOR:		RESIST. AT SOV.		CURRENT		SEE NOTE	TESTING INSTRUCTIONS
	RESID.								NO. 1	NO. 2	READJ.	TEST	READJ.	TEST		
H FIGS.1-5 GR-50052-A6 D-281057-B #1-1000 Ω SR	.003	.032	.030	.028	.026	.018	.018	.018	0 NO		1550 1950	1300 2250	.0196 .0169	.0217 .0154	6	INS. SPGS. 8 & 9 OF RLY. H. POS. TO SPG. 9 OF RLY. H.
SHORT LEVER ARM. THIS RELAY SUPPLIED BEGINNING WITH ISS.8.																
F FIGS.6-10 GR-6824-B1 D-283084-B #1-1200 Ω #2-1200 Ω	.0015	.014	.013	.006	.009	.004			0 NO		1530 2200	1280 2450	.0183 .0147	.0202 .0137		INS. SPGS. 5 & 6 OF RLY. F. POS. TO SPG. 6 OF RLY. F.
K GR-50442-A1 D-282731-B #1-1300 Ω #2-500 Ω	.0015	.028	.024	.024	.014	.006	.013	.009	0 NO		1080 1550	860 1820	.0210 .0175	.0231 .0160		#1 TEST MADE ON #2 WDG. FOR SPGS. 1 & 3 ONLY. INS. SPGS. 8 & 9. POS. TO SPG. 9.
									0 NO		240 310	180 380	.0680 .0620	.0740 .0570		INS. SPGS. 9 & 11. POS. TO SPG. 11.
	RESID.								NO. 1							
									NO. 2							
	RESID.								NO. 1							
									NO. 2							
	RESID.								NO. 1							
									NO. 2							

FM-1451-8
3-5-57
ISS: #1

EMO, ECO
3-23-61
ISSUE: #2

EMO, ECO
8-28-62
ISSUE: #3

EMO, ECO
11-13-63
ISSUE: #4

RELAYS	SPRING GAUGING	TEST FOR	RESIST. AT 50 V		CURRENT		TEST INSTRUCTIONS
			READJ.	TEST	READJ.	TEST	
A FIG. 1 R-2215-A1 D-280026-A #1-200 Ω #2-200 Ω		0	2960	2910	.0148	.0151	1 5 SPGS. 1 & 2 MAY BREAK ON N.O. VALUES. MIN. TENSION OF SPG. 5 TO BE 35 GRAMS. CONNECT RESISTANCE ACROSS SPGS. 3 & 8 OF RLY. H. (SEE SHEET 2) THIS RELAY SUPPLIED PRIOR TO ISSUE 2.
		NO	3080	3190	.0144	.0139	
B R-8018-A2 D-282349-A/B #1-600 Ω GR-8018-A2 SR		0	1570	1350	.0230	.0256	8 POS. TO SPG. 3 OF RLY. A.
		NO	1790	2000	.0209	.0192	
C R-6351-A2 D-282224-A/B #1-231 Ω (300-1000 Ω NI) SR		0	1540	1380	.0282	.031	8 POS. TO SPG. 4 OF RLY. F.
		NO	1760	1920	.0251	.0232	
D R-5396-C1 D-282659-A/B #1-1300 Ω #2-500 Ω NI SO		0	1700	1400	.0167	.0185	POS. TO COIL TERM. NEAREST SPGS.
		NO	2400	2700	.0135	.0125	
E R-6493-A2 D-280054-A/B #1-800 Ω GR-6493-A2 SR		0	1590	1370	.0209	.0230	8 POS. TO SPG. 9 OF RLY. B.
		NO	1860	2140	.0188	.0170	
F R-6824-B1 D-283084-A/B #1-1200 Ω #2-1200 Ω GR-6824-B1		0	1530	1280	.0183	.0202	POS. TO SPG. 10 OF RLY. D.
		NO	2200	2450	.0147	.0137	

EXPLANATION OF TERMS

(1)-INSIDE OR ARMATURE END WINDING.
(2)-OUTSIDE OR HEEL END WINDING.
SA-SLOW TO OPERATE & SLOW TO RELEASE.
SR-SLOW TO RELEASE, SO-SLOW TO OPERATE.
AC-ALTERNATING CURRENT.
O-OPER.; NO-NON-OPER.; H-HOLD.; R-RLSE.
RESID.-RESIDUAL ADJUSTMENT VALUE. TEST VALUES ARE FOR INSPECTION ONLY. READJ. VALUES ARE FOR ADJUSTING ONLY. CURRENT IS SHOWN IN AMPERES. POS.-TEST WITH POSITIVE BATTERY THRU RESISTANCE OF TEST SET. NEG.-TEST WITH NEGATIVE BATTERY THRU RESISTANCE OF TEST SET.

NOTES

- 1-TEST WITH BOTH WINDINGS IN SERIES.
- 2-TEST WITH VERTICAL MAGNET IN SERIES.
- 3-TEST WITH ROTARY MAGNET IN SERIES.
- 4-NO. 1 WINDING TO OPER. NO. 1 SPRING ONLY.
- 5-SPRINGS NEED ONLY MAKE CONTACT ON OPERATE TESTS.
- 6-BOTH TESTS MADE ON NO. 1 WINDING. NO. 1 TEST IS FOR NO. 1 SPRING ONLY.
- 7-CONNECT RESIST ACROSS TEST JACKS 1 & 2.
- 8-SHORT LEVER ARM. RESID MIN. .0015 MAX. .004.

GEN.: OPERATE BUSY KEY WHILE TESTING.

STANDARD ADJUSTMENTS 100 101 110

TYPE-LS ENG.-JRS APP'D.-AEM/OK.

AUTOMATIC ELECTRIC COMPANY
Northlake, Illinois 60062

RELAY ADJUSTMENT SHEET
OUTGOING TRUNK CIRCUIT
E & M TO CMA OFFICE

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