

TRACING
WORN
RETIRED

8-10
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AH-61847



RELAYS		SPRING GAUGING	TEST FOR	RESISTANCE		CURRENT		SEE NOTE	TESTING INSTRUCTIONS
				READJ.	TEST	READJ.	TEST		
A	RT-491-A2	SHORT LEVER ARM. HEAVY DUTY RELAY CHROME PLATED CORE	0	850	700	.0280	.0307		POS. TO SPG. 3 OF RLY. D.
D-282497-A	#1-788 Ω		NO	1000	1200	.0255	.0233		
(1300-2000 ΩNI)	SO								
B	D-55291-R	VIBRATING REED RELAY							SEE STD. ADJ. A-55291. ADJUST SO THAT RLY. C REMAINS OPER. FROM 4 TO 5 SEC. AFTER THE CIRCUIT TO RLY. B IS OPENED. INS. SPGS. 1 & 2 OF RLY. A. GRD. TO SWITCH JACK 1. GRD. TO SPG. 2 OF RLY. A.
D-283009-A	#1-428 Ω								
C	RT-443-A3		0	1000	900	.0255	.0277		POS. TO SPG. 4 OF RLY. A.
D-282497-A	#1-788 Ω		NO	1300	1450	.0220	.0205		
(1300-2000 ΩNI)	SO								
D	RT-1026-A2	SHORT LEVER ARM. HEAVY DUTY RELAY	0	1500	1250	.0170	.0188		INS. SPGS. 9 & 10 OF RLY. H. POS. TO SPG. 10 OF RLY. H.
D-283571-A	#1-1200 Ω		NO	1900	2200	.0148	.0135		
CHROM. PL. CORE	SO								
G	RT-383-A3	HEAVY DUTY RELAY	0	1150	1050	.0276	.0298		INS. SPGS. 9 & 10 OF RLY. H. INS. SPGS. 1 & 2 OF RLY. G. POS. TO SPG. 2 OF RLY. G.
D-283586-A	#1-500 Ω		NO	1550	1700	.0225	.0207		
#2-1300 Ω	CHROM. PL. CORE								
H	RT-1060-A1	HEAVY DUTY RELAY	0	685	585	.0415	.0455		TEST IN MULT. WITH 3000 Ω. NEG. BATT. TO SPG. 1 OF RLY. A. POS. TO SPG. 1 OF RLY. G.
D-283548-A	#1-500 Ω		NO	900	1040	.0344	.0304		
#2-1500 Ω	CHROM. PL. CORE								

ASSOCIATED DRAWINGS

EXPLANATION OF TERMS

#1—INSIDE OF ARMATURE END WINDING.
#2—OUTSIDE OR REEL END WINDING. S. A. = SLOW TO OPERATE & SLOW TO RELEASE. S. R. = SLOW TO RELEASE. S. O. = SLOW TO OPERATE.
E. P. = ELECTRO POLAR; A. C. = ALTERNATING CURRENT. W. = BRASS WASHER BETWEEN COIL & REEL PIECE. O. = OPERATE; R. O. = NON-OPERATE VALUES. RESID. = RESIDUAL ADJUSTMENT VALUE. TEST VALUES ARE FOR INSPECTION ONLY. READJ. VALUES ARE FOR ADJUSTING ONLY. CURRENT IS SHOWN IN AMPERES. RESISTANCE VALUES ARE FOR 40 V. BATTERY. 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—SHT. LEVER ARM. RESID. MIN. .0015 MAX. .004.

RELAY ADJUSTMENT SHEET

TIMER CIRCUITS FOR
PERMANENTS, CONVER. STATION
AND TRUNKS.

CKT.- H-61847 3 SHEETS 1

STANDARD ADJUSTMENTS 100 101 118
173 55291

TYPE.- SS ENG.-MGS APP'D.- DWM/OK.-

AUTOMATIC ELECTRIC COMPANY
CHICAGO, U. S. A.

AH-61847



RELAYS	SPRING GAUGING	TEST FOR	RESISTANCE		CURRENT		SEE NOTE	TESTING INSTRUCTIONS
			READJ.	TEST	READJ.	TEST		
J RT-517-A1 D-283551-A #1-600 Ω #2-2700 Ω CHROM. PL. CORE	HEAVY DUTY RELAY ↑ .010 ↑ .010 ↑ .010 ↑ .014 ↑ .010 ↑ .015	0 NO	500 720	400 850	.042 .035	.046 .032		INS. SPGS. 7 & 8 OF RLY. J. POS. TO SPG. 1 OF RLY. K.
K RT-1038-A4 D-283548-A #1-500 Ω #2-1500 Ω CHROM. PL. CORE	HEAVY DUTY RELAY ↑ .014 ↑ .010 ↑ .010 ↑ .010 ↑ .010 ↑ .010	0 NO	900 1200	770 1325	.0350 .0284	.0379 .0262		TEST IN MULT. WITH 3000 Ω. NEG. BATT. TO SPG. 1 OF RLY. A: POS. TO SPG. 7 OF RLY. J.
L RT-435-A1 D-283551-A #1-600 Ω #2-2700 Ω CHROM. PL. CORE	HEAVY DUTY RELAY ↑ .010 ↑ .010 ↑ .014 ↑ .015	0 NO	500 720	400 850	.042 .035	.046 .032		INS. SPGS. 5 & 6 OF RLY. L. POS. TO SPG. 4 OF RLY. M.
M RT-1010-A4 D-283548-A #1-500 Ω #2-1500 Ω CHROM. PL. CORE	HEAVY DUTY RELAY ↑ .015 ↑ .010 ↑ .014 ↑ .010 ↑ .010 ↑ .010	0 NO	900 1200	770 1325	.0350 .0292	.0388 .0264		TEST IN MULT. WITH 3000 Ω. NEG. BATT. TO SPG. 1 OF RLY. A. POS. TO SPG. 5 OF RLY. L.
N & R RT-381-A3 D-283551-A #1-600 Ω #2-2700 Ω CHROM. PL. CORE	HEAVY DUTY RELAY ↑ .010 ↑ .010 ↑ .014	0 NO	1150 1500	1000 1700	.0263 .0219	.0288 .0200		RLY. N:- INS. SPGS. 3 & 4 OF RLY. N. POS. TO SPG. 5 OF RLY. P. RLY. R:- INS. SPGS. 3 & 4 OF RLY. R. POS. TO SPG. 5 OF RLY. S.
P RT-1064-A1 D-283548-A #1-500 Ω #2-1500 Ω CHROM. PL. CORE	HEAVY DUTY RELAY ↑ .016 ↑ .015 ↑ .014 ↑ .010 ↑ .010 ↑ .010	0 NO	860 1100	750 1250	.0360 .0300	.0390 .0276		TEST IN MULT. WITH 3000 Ω. NEG. BATT. TO SPG. 1 OF RLY. A. POS. TO SPG. 3 OF RLY. N.

ASSOCIATED DRAWINGS

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SLOW TO OPERATE, S. R. = SLOW TO RELEASE.
E. P. = ELECTRO POLAR; A. C. = ALTERNATING
CURRENT. W. BRASS WASHER BETWEEN
COIL & REEL PIECE. O. OPERATE; H. O. = NON-
OPERATE VALVES. RESID. = RESIDUAL ADJUST-
MENT VALUE. TEST VALUES ARE FOR INSPEC-
TION ONLY. READJ. VALUES ARE FOR ADJUST-
ING ONLY. CURRENT IS SHOWN IN AMPERES.
RESISTANCE VALUES ARE FOR 45 V. BATTERY.
CS. = TEST WITH POSITIVE BATTERY THRU

RESISTANCE OF TEST SET. NEG. - TEST
WITH NEGATIVE BATTERY THRU RESIST-
ANCE OF TEST SET.

NOTES

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ON OPERATE TESTS.
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NO. 1 TEST IS FOR NO. 1 SPRING ONLY.
- 7-CONNECT RESIST. ACROSS TEST JACKS 1 & 2.
- 8-INT. LEVER ARM. RESID. MIN. .0015
AX. .004

RELAY ADJUSTMENT SHEET

STANDARD ADJUSTMENTS

TYPE - SS ENG. - MGS APP'D. - DWM OK.

AUTOMATIC ELECTRIC COMPANY
CHICAGO, U. S. A.

CKT. - H-61847

3 SHEETS 2

AH-61847

RELAYS		SPRING GAUGING					TEST FOR		RESISTANCE		CURRENT		SEE NOTE	TESTING INSTRUCTIONS
							READJ.	TEST	READJ.	TEST	READJ.	TEST		
S		RESID. .003D	↑ .010	↑ .015	↑ .014	↑ .010	HEAVY DUTY RELAY	0	860	750	.0360	.0390		TEST IN MULT. WITH 3000 Ω. NEG. BATT. TO SPG. 1 OF RLY. A. POS. TO SPG. 3 OF RLY. R.
RT-1066-A1								NO	1100	1250	.0300	.0276		
D-283548-A														
#1-500 Ω														
#2-1500 Ω														
CHROM. PL. CORE														
T		RESID. .003D	↑ .010	↑ .010	↑ .010	↑ .014	HEAVY DUTY RELAY	0	1300	1100	.0220	.0244		POS. TO SPG. 5 OF RLY. G.
RT-383-A1								NO	2000	2300	.0165	.0149		
D-283545-A														
#1-788 Ω														
(1300-2000 Ω) INT														
CHROM. PL. CORE														
ST		RESID. .0015	↑ .010	↑ .010	↑ .010	↑ .014	RLY. RT-252-A5 SAME EXCEPT RIGHT HAND	0	600	400	.0242	.0271		RT-252-A5: POS. TO UPPER COIL TERM. RT-227-A3: POS. TO LOWER COIL TERM.
RT-227-A3								NO	1000	1200	.0200	.0184		
D-280431-A														
#1-1300 Ω														
SO														
		RESID.						No. 1						
								No. 2						
		RESID.						No. 1						
								No. 2						
		RESID.						No. 1						
								No. 2						

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 RESISTANCE VALUES ARE FOR 45 V. BATTERY.
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RESISTANCE OF TEST SET. NEG. - TEST
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AUTOMATIC ELECTRIC COMPANY
 CHICAGO, U. S. A.

RELAY ADJUSTMENT SHEET

CKT. - H-61847 3 SHEETS 3

AH-61847