

*	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.
	RLSE. SPGS.	124		-POS.=TEST WITH POSITIVE BAT. THRU RESIST. OF TEST SET.
	R. O. N.	126	230-005-703	-NEG.=TEST WITH NEGATIVE BAT. THRU RESIST. OF TEST SET.
	VERT. 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		X WIRE WRAP TERM. X SOLDERED TERM.
	SHAFTS, WIPERS, ETC.	135		
	MINOR SW.	136	230-007-708	- NOTES -
	TESTING LP PULSED SWS.	144		1-TEST WITH BOTH WINDINGS IN SERIES.
	TESTING SX PULSED SWS.	145	230-200-504	2-#1 WINDING TO OPERATE #1 SPRING ONLY.
*	TIMING SWITCHES & RLYS.	146	226-550-502	3-SPRINGS NEED ONLY MAKE CONTACT ON OPERATE TESTS.
	44 ROT. SW.	163	230-007-706	4-BOTH TESTS MADE ON #1 WINDING.
	45 " "	162	230-007-705	#1 TEST IS FOR #1 SPRING ONLY.
	SHUNT FIELD RELAY	175	040-500-706	5-CONNECT RESISTANCE ACROSS TEST JACKS 1 & 2.
	280 POLAR RLY.	201	040-401-701	6-SHORT LEVER ARM. RESIDUAL MIN. .0015", MAX. .004".
	KEYS	753	032-305-700	GEN.: REMOVE SWITCH FROM RACK WHILE TESTING.
	SWITCHBOARD JACKS	754	032-320-700	CONNECT GRD. TO SWITCH JACK 11 AND
				NEG. BAT. TO SWITCH JACK 12.

NOTES CONTINUED

7- PULSE REPEATING TESTS FOR INCOMING PULSES (RELAY "A")

1. SWITCH PREPARATION: OPERATE "PULSE TEST" KEYS.
2. TEST SET PREPARATION: CORD FROM "LP OUT" AND "LP IN" JACKS TO 6 POINT PLUG (SEE H-85388 FIG. 2).
3. APPLY TO TEST JACKS (PULSE IN) 3 & 4 LOOP PULSES 12 PPS, 59% BREAK.
4. MEASURE LOOP PULSES AT TEST JACKS (PULSE MEASURE) 7 & 8 REQUIRE 57-61% BREAK.
5. TO MEET ABOVE REQUIREMENTS, RELAY "A" MAY BE RETENSIONED OUTSIDE SPECIFIED MARGIN LIMITS, BUT THEN ITS MARGIN SHALL BE WITHIN LIMITS. NON-OPERATE .0150 AMP., OPERATE .0190 AMP.
8. OPERATE AND NON-OPERATE VALUES ARE 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.) CKTS. H-85681, H-850046 OR EQUIV.
12. FOLLOW TESTING INSTRUCTIONS FOR TIMING OF RELAYS.

RELAYS	SPRING GAUGING	TEST FOR:		RESIST. AT 50V.		CURRENT		SEE NOTE	TESTING INSTRUCTIONS
				READJ.	TEST	READJ.	TEST		
A FIGS.1-4 R-769-C2 D-281909-A #1-700 Ω	.006±.001 RESID.								
		NO. 1	0	2190	2060	.0173	.0181	3	POS. TO TEST JACK SPG. 3.
		NO. 2	NO	2370	2480	.0163	.0157	7	
A FIGS.1-6 & 8 GR-6181-B8 D-281909-B #1-700 Ω	.006±.001 RESID.								
		NO. 1	0	2190	2060	.0173	.0181	3	POS. TO TEST JACK SPG. 3.
		NO. 2	NO	2370	2480	.0163	.0157	7	
A FIGS.7 & 9 GR-50284-A3 D-281909-B #1-700 Ω	.006±.001 RESID.								
		NO. 1	0	2160	2080	.0175	.0180	3	POS. TO TEST JACK SPG. 3.
		NO. 2	NO	2350	2440	.0164	.0159	7	

THIS RELAY SUPPLIED PRIOR TO ISSUE 3.

THIS RELAY SUPPLIED BEGINNING WITH ISS.3.

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RELAYS	SPRING GAUGING							TEST FOR:	RESIST. AT 50V.		CURRENT		SEE NOTE	TESTING INSTRUCTIONS				
	RESID.								READJ.	TEST	READJ.	TEST						
B FIGS.1-6 GR-8018-A2 D-282349-B #1-600 Ω SR								.003		.029	.020	.027	.020	.020	.020	SHORT LEVER ARM.	NO. 1	0 NO
THIS RELAY SUPPLIED PRIOR TO ISSUE 5.																		
B FIGS.1-9 GR-8018-A2B D-282349-B #1-600 Ω SR	NOTE	RESID.		.028	.016	.026	.016	.016	.016	SHORT LEVER ARM.	NO. 1	0 NO	1700 1900	1500 2100	.0217 .0200	.0238 .0185	8	POS. TO SPG. 3 OF RLY. A.

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