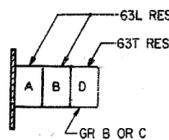
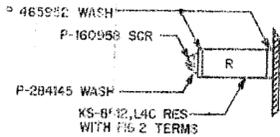


TABLE B			
FEATURE	SEC NOTE	QUAN	MATERIAL REQUIRED FOR MODIFICATION
ROTARY OVERSTEP	59 (A) (B)(C)	1 1 1	PARTS, KIT OF D-179971 P-231 RES P-251741 RHM SCR .138-32 X 2 1/8"
	59 (A) OR (B)	1 1 1	P-128224 RLS ARM SPG & BRKT ASSEM P-252926 H.M.M. SCR .138-32 X 9/32" P-485112 SPG ARM E/W P-250483 BUSHING
AUTO DISC	59 (B)	1 2 1 1	KS-8512 L4C RES 352 Ω WITH FIG 2 TERMS P-465952 WASH P-284145 WASH P-160958 RHM SCR .138-32 X 1 3/8"

*DO NOT ORDER THIS MATERIAL IF SWITCH IS EQUIPPED WITH AUTO. DISC. PER GR A



SECT A-A



SECT B-B

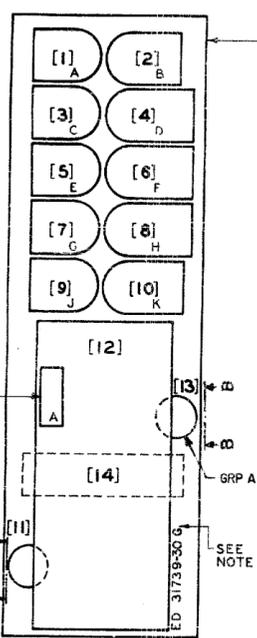
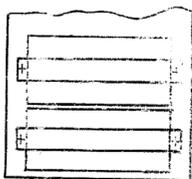


FIG. I



REAR COVER

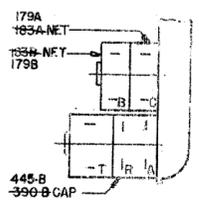


FIG. B

GROUP	QUAN	CODE	DESCRIPTION	NOTES LINE
	1	111A	COVER	1A
	1	221 A	221ND	2
	1	248 E		3
1,2,3,4,5	1	221 CK		4
	1	222 JH 222KN		5
	1	221 DT	REL. POS.	6
1,2,8,6	1	222 T		7
3,4,8,7	1	222 DP		8
	1	221 W		9
	1	222 JJ		10
	1	223 A		11
	2	63 L	RES.	12
	1	197 E	SWITCH EQUIP. WITH	13
1,2,3,4,8,5	2	MIR	CORD 4 3/4 LG.	15
	1	MIR	CORD 4 LG.	16
	1	12-C	COND.	17
	1	242 C	PLUG	14R
	1	41-A	RES.	20
	1	41-B	RES.	21
	1	442-A	COND.	22
	1	442-B	COND.	23
	1	442-C	COND.	24
	1	442-D	COND.	25
	1	442-E	COND.	26
	1	442-F	COND.	27
	1	442-G	COND.	28
	1	442-H	COND.	29
	1	442-I	COND.	30
	1	442-J	COND.	31
	1	442-K	COND.	32
	1	442-L	COND.	33
	1	442-M	COND.	34
	1	442-N	COND.	35
	1	442-O	COND.	36
	1	442-P	COND.	37
	1	442-Q	COND.	38
	1	442-R	COND.	39
	1	442-S	COND.	40
	1	442-T	COND.	41
	1	442-U	COND.	42
	1	442-V	COND.	43
	1	442-W	COND.	44
	1	442-X	COND.	45
	1	442-Y	COND.	46
	1	442-Z	COND.	47
	1	442-AA	COND.	48
	1	442-AB	COND.	49
	1	442-AC	COND.	50
	1	442-AD	COND.	51
	1	442-AE	COND.	52
	1	442-AF	COND.	53
	1	442-AG	COND.	54
	1	442-AH	COND.	55
	1	442-AI	COND.	56
	1	442-AJ	COND.	57
	1	442-AK	COND.	58
	1	442-AL	COND.	59
	1	442-AM	COND.	60
	1	442-AN	COND.	61
	1	442-AO	COND.	62
	1	442-AP	COND.	63
	1	442-AQ	COND.	64
	1	442-AR	COND.	65
	1	442-AS	COND.	66
	1	442-AT	COND.	67
	1	442-AU	COND.	68
	1	442-AV	COND.	69
	1	442-AW	COND.	70
	1	442-AX	COND.	71
	1	442-AY	COND.	72
	1	442-AZ	COND.	73
	1	442-BA	COND.	74
	1	442-BB	COND.	75
	1	442-BC	COND.	76
	1	442-BD	COND.	77
	1	442-BE	COND.	78
	1	442-BF	COND.	79
	1	442-BG	COND.	80
	1	442-BH	COND.	81
	1	442-BI	COND.	82
	1	442-BJ	COND.	83
	1	442-BK	COND.	84
	1	442-BL	COND.	85
	1	442-BM	COND.	86
	1	442-BN	COND.	87
	1	442-BO	COND.	88
	1	442-BP	COND.	89
	1	442-BQ	COND.	90
	1	442-BR	COND.	91
	1	442-BS	COND.	92
	1	442-BT	COND.	93
	1	442-BU	COND.	94
	1	442-BV	COND.	95
	1	442-BW	COND.	96
	1	442-BX	COND.	97
	1	442-BY	COND.	98
	1	442-BZ	COND.	99
	1	442-CA	COND.	100

TABLE C-APPLICATION OF GROUPS

OFFICES WHICH HAVE 806D OR 806F RINGING PLANT	AC-DC RINGING PREPAY COIN HDR GRP 4-PTY FULL SEL OR AC-DC RINGING	48V TRIP BAT.	60V TRIP BAT.	RATING
		G-546		STD
OFFICES WHICH HAVE RINGING AND ALARM SHELF OR 806D RINGING PLANT	JK WRG UNIV SH J3231IE		G587	A&M ONLY
	JK WRG FOR SHELVES PRIOR TO J3231IE	G-1	G-3	A&M ONLY

GROUP	QUAN	CODE	DESCRIPTION	NOTES LINE
	1	111A	COVER	1A
	1	221 A	221ND	2
	1	248 E		3
1,2,3,4,5	1	221 CK		4
	1	222 JH 222KN		5
	1	221 DT	REL. POS.	6
1,2,8,6	1	222 T		7
3,4,8,7	1	222 DP		8
	1	221 W		9
	1	222 JJ		10
	1	223 A		11
	2	63 L	RES.	12
	1	197 E	SWITCH EQUIP. WITH	13
1,2,3,4,8,5	2	MIR	CORD 4 3/4 LG.	15
	1	MIR	CORD 4 LG.	16
	1	12-C	COND.	17
	1	242 C	PLUG	14R
	1	41-A	RES.	20
	1	41-B	RES.	21
	1	442-A	COND.	22
	1	442-B	COND.	23
	1	442-C	COND.	24
	1	442-D	COND.	25
	1	442-E	COND.	26
	1	442-F	COND.	27
	1	442-G	COND.	28
	1	442-H	COND.	29
	1	442-I	COND.	30
	1	442-J	COND.	31
	1	442-K	COND.	32
	1	442-L	COND.	33
	1	442-M	COND.	34
	1	442-N	COND.	35
	1	442-O	COND.	36
	1	442-P	COND.	37
	1	442-Q	COND.	38
	1	442-R	COND.	39
	1	442-S	COND.	40
	1	442-T	COND.	41
	1	442-U	COND.	42
	1	442-V	COND.	43
	1	442-W	COND.	44
	1	442-X	COND.	45
	1	442-Y	COND.	46
	1	442-Z	COND.	47
	1	442-AA	COND.	48
	1	442-AB	COND.	49
	1	442-AC	COND.	50
	1	442-AD	COND.	51
	1	442-AE	COND.	52
	1	442-AF	COND.	53
	1	442-AG	COND.	54
	1	442-AH	COND.	55
	1	442-AI	COND.	56
	1	442-AJ	COND.	57
	1	442-AK	COND.	58
	1	442-AL	COND.	59
	1	442-AM	COND.	60
	1	442-AN	COND.	61
	1	442-AO	COND.	62
	1	442-AP	COND.	63
	1	442-AQ	COND.	64
	1	442-AR	COND.	65
	1	442-AS	COND.	66
	1	442-AT	COND.	67
	1	442-AU	COND.	68
	1	442-AV	COND.	69
	1	442-AW	COND.	70
	1	442-AX	COND.	71
	1	442-AY	COND.	72
	1	442-AZ	COND.	73
	1	442-BA	COND.	74
	1	442-BB	COND.	75
	1	442-BC	COND.	76
	1	442-BD	COND.	77
	1	442-BE	COND.	78
	1	442-BF	COND.	79
	1	442-BG	COND.	80
	1	442-BH	COND.	81
	1	442-BI	COND.	82
	1	442-BJ	COND.	83
	1	442-BK	COND.	84
	1	442-BL	COND.	85
	1	442-BM	COND.	86
	1	442-BN	COND.	87
	1	442-BO	COND.	88
	1	442-BP	COND.	89
	1	442-BQ	COND.	90
	1	442-BR	COND.	91
	1	442-BS	COND.	92
	1	442-BT	COND.	93
	1	442-BU	COND.	94
	1	442-BV	COND.	95
	1	442-BW	COND.	96
	1	442-BX	COND.	97
	1	442-BY	COND.	98
	1	442-BZ	COND.	99
	1	442-CA	COND.	100

ED-31739-30

LIST OF ASSOCIATED DRAWINGS DRAWINGS DESIGNATED * NOT REQ'D BY INSTALLER

ENGINEERING NOTES:

- (A) MODIFICATION OF SD-31739-01 CONSISTS OF SHOWING 63T RES ACROSS RON SPRINGS (ZE OPT) AND OMITTING "ZH" OPTION PER TWX R.J. JAEGER JR. TO J. DASHEN DATED 3-24-65
- (B) MODIFICATION OF ED-31739-01 CONSISTS OF SHOWING 63T (D) RES INSTEAD OF KS-8512 L2A (K) RES IN POS 1C PER TWX A.A. BURGESS TO J. DASHEN DATED 3-26-66.
- (A) OMIT ED ISS 10 THRU 12
- (B) OMIT SD ISS 11 THRU 13
- (C) OMIT BSP ISS 6 THRU 8 APPX 3.

ENGINEERING NOTES:

- MADE FROM ED-31739-01 (MOD) SEE NOTE 77A. SD-31739-01 ISS 17 (MOD) SEE NOTE 77B & BSP A232008 (J3231) ISS 10 APP 4 SEE NOTE 77C.
- EQUIPMENT SHALL BE ORDERED IN ACCORDANCE WITH TABLE A.
- WIRING OF BANKS J-3231G, J-3231F
- ASSOCIATED JACK WIRING T-616956 OR T-532076
- SPECIFY 6-5 FOR USE ON UNIVERSAL SHELVES PER J3231E.
- 6-1 B G-3 ARE FOR USE ONLY ON ADDITIONS FOR SHELVES MANUFACTURED BEFORE THE INTRODUCTION OF SHELVES PER J3231E.
- (A) SPECIFY WRG B APP OF GRP A FOR FIELD MODIFICATIONS TO ARR SW FOR AUTO DISC. GRP A IS FOR STAMPING & RECORD PURPOSES ONLY AND CANNOT BE ORDERED.
- (B) REFER TO DCS-31739-14A FOR DETAILS OF THIS MODIFICATION.
- THE FOLLOWING GROUPS ARE FOR RECORD PURPOSES ONLY AND CANNOT BE ORDERED: GROUPS A, B, C.
- (A) TO ARRANGE SWITCHES PER GR 1,2,3,4 OR 5 FOR PREVENTION OF ROTARY OVERSTEP WITHOUT AUTO. DISC. ADD GR C. (SEE TABLE B)
- (B) TO ARRANGE SWITCHES PER GR 1,2,3,4 OR 5 FOR PREVENTION OF ROTARY OVERSTEP WITH AUTO. DISC. ADD GR B. (SEE TABLE B)
- (C) TO ARRANGE SWITCHES PER GR 1,2,3,4 OR 5 FOR PREVENTION OF ROTARY OVERSTEP AND SWITCHES ARE ARRANGED FOR AUTO. DISC. PER GR A MODIFY GR A TO AGREE WITH GR B. (SEE TABLE B)

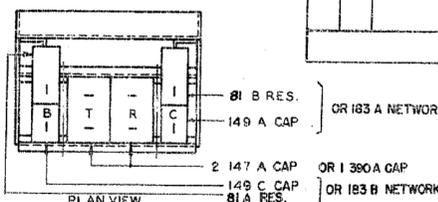
MANUFACTURING NOTES:

- NUMBERS IN C J ARE MOUNTING PLATE POSITION NUMBERS ONLY AND SHALL NOT BE STAMPED.
- THE SUFFIX OF THE MANUFACTURING DRAWING AND THE GROUP NUMBER OF THE SWITCH ORDERED SHALL BE STAMPED ON THE APPARATUS MOUNTING PLATE.
- THIS UNIT SHALL BE SURFACE WIRED.
- ALL ITEMS SHALL BE ASSEMBLED FOR SHIPMENT.
- EQUIP CIRCUITS PER TABLE A IN ACCORDANCE WITH GROUPS SPECIFIED
- WHEN SWITCH IS MODIFIED FOR PREVENTION OF CONNECTOR ROTARY OVERSTEP WITH OR WITHOUT AUTO DISC INSTALLER SHALL RESTAMP CODE AS FOLLOWS:

CONN SW GRP MODIFIED	FROM	TO	FROM SWITCH	TO SWITCH
GR 1,2,3,4 OR 5 WITHOUT GRA	ADD GR B OR C		197 E	197 HR
GR 1,2,3,4 OR 5 WITH GR A	ADD GR B OR C		197 GP	197 HR

GROUP	QUAN	CODE	DESCRIPTION	NOTES LINE
C	1	WRG & EQPT REQD IN ADD. TO GR 1, 2, 3, 4 OR 5 TO ELIMINATE THE POSSIBILITY OF ROTARY OVERSTEP (SEE NOTE 58, 59).	SD-31739-01 ZB, ZD, WRG ZB, ZE APP (FIG 1)	
B	1	WRG & EQPT REQD IN ADD. TO GR 1, 2, 3, 4 OR 5 TO ARR SW FOR AUTO DISC B TO ELIMINATE THE POSSIBILITY OF ROTARY OVERSTEP (SEE NOTE 58, 59).	SD-31739-01 J, ZB, ZD, WRG J, ZB, ZE APP (FIG 1)	

TABLE A (CONT)



REAR COVER FIG. A (MFR. DISC)