

RELAY DESIGN FOR CIRCUIT **GBW 15190**
 TITLE **ROUTINER FOR GROUP SELECTORS WITHOUT BUSY FLASH 2000 TYPE**

COMMITTEES WIRING DIAGRAM NO

RELAY NAME	COMM CODE	IF NEW CODE (CARD ATTACHED)	DEPARTURES FROM DIAGRAM		SPRING NUMBERING CONTACT UNIT NUMBER								REFERENCES TO NOTES BELOW		
			RESISTANCE	CONTACTS	1	2	3	4	5	6	7	8			
A	6119					2									
AE	20517					2	5	25	3	4	22	27	24	23	C1
AO	1005					2									
AR	20489					2									
B	4365					3	2								
BA	5722					2	4	22	5	24	23				C2
BB	5722					2	4	22	5	23					C3
BI	7175					2	22								C4
BI	20491					2	22	4							C4
BT	40695pd					2	3	5	22	25	24				

NOTES SPECIAL FACTORS OF SAFETY A
 SPECIAL ADJUSTMENTS B
 CIRCUIT POINTS OR MODIFICATIONS C

CLASS	RELAY	NOTES
C1	AE	SPRINGS 25/26 SPARE & UNWIRED.
C2	BA	" 23/24 " " "
C3	BB	" 23/24 " " "
C4	BI	ALTERNATIVE CODES

REF A REF B REF C REF D REF E REF F REF G REF H REF I REF J REF K REF L REF M REF N REF O REF P REF Q REF R REF S REF T REF U REF V REF W REF X REF Y REF Z

REF A REF B REF C REF D REF E REF F REF G REF H REF I REF J REF K REF L REF M REF N REF O REF P REF Q REF R REF S REF T REF U REF V REF W REF X REF Y REF Z

REF A REF B REF C REF D REF E REF F REF G REF H REF I REF J REF K REF L REF M REF N REF O REF P REF Q REF R REF S REF T REF U REF V REF W REF X REF Y REF Z

REF DESIGN. BPO TYPE

A	R2/3/4	9
B	R7/9/16/17	12
C	R15	9
D	R8/10/11	9A (R8) 9A (R11)
E	R18/19/20/21	12
F	R12/13/14	9 (R12/14) 9A (R13)
G	R22/23/24/25/26	12A (R22/23) 12 (R24-26)
H	R27/28/29	9
J	R1	9
K	R2A/2B/2C	9

NZ NOTES
 1. C5 & C6 ARE RADIO-TYPE CAPACITORS SOLDERED TO TQ TAGS
 2. RXI MTD REAR OF BT RELAY D1 & D2 MTD T8 ARC
 3. D1-5 ARE 1N4003 OR EQUIVALENT

CHANGES	ISSUE 1 (4-10-57) NZ NOTE ADDED. ISS IA 9-10-59. NO CHANGE ALL SHTS. 195. No MADE SIMILAR (744-22) 36. 155.3E 3A24.4-63 BT RELAY CODE WAS 6010, RXI, D18 DZ ADD. (22321) KG 155.3B 8-10-74 155.3C 23.11.78 NZ NOTE 3 ADDED (195568) WAH NO CHANGE (38441) SHT 7 AND 9-10-83 FB	ORIGINATED BY A.E.I.
	28230	DATE 14.10.57
		SIGNED FOR COMMITTEE <i>[Signature]</i>

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2000 TYPE

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RELAY NAME	COMM CODE	IF NEW CODE (CARD ATTACHED)	DEPARTURES FROM DIAGRAM		SPRING NUMBERING CONTACT UNIT NUMBER								REFERENCES TO NOTES BELOW		
			RESISTANCE	CONTACTS	1	2	3	4	5	6	7	8			
CF	4073				22 21	2 1									
CQ	6197				27 26	3 12	22 21	29 28	9 7	6 4	5 23	25 24		C1	
DC	5868				1	2									
DD	5875				23 22 21	3 4	1 2								
DE	5723				1	2	3	4	23 22	21					
DR	20519				5 3	4	24 23	1	2	22 21				C2	
DS	4295				1	2	3	4	22 21						
DU	1423				22 21	3 1	2								
DV	1618				1	2	3	4	22 21						
FD	5869				1	2	3	4	25 24	7 5	22 21	3	4		

NOTES SPECIAL FACTORS OF SAFETY A
SPECIAL ADJUSTMENTS B
CIRCUIT POINTS OR MODIFICATIONS C

CLASS	RELAY	NOTES
C1 C2	CQ DR	SRINGS 7/8/9 & 23/24/25 SPARE & UNWIRED SPRING 5 SPARE & UNWIRED.

CHANGES	ISSUE 1 14-10-57 NO CHANGE ALL SHTS. 155. NO. MADE SIMILAR (74422)	ORIGINATED BY A.E.I.	
	ISSUE 3 24-4-63. NO CHANGE, SHT 1 AMD. (22321)		DATE 14.10.57
	ISS. 3B 8-10-74 ISS. 3C 23.11.78 SHTS. 1, 7 AMD. (193508) WAH		SIGNED FOR COMMITTEE <i>[Signature]</i>

NO CHANGE.
SHT 7 AMD (38441)
155. 3D 5-10-85.
FB

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RELAY NAME	COMM CODE	IF NEW CODE (CARD ATTACHED)	DEPARTURES FROM DIAGRAM		SPRING NUMBERING CONTACT UNIT NUMBER								REFERENCES TO NOTES BELOW			
			RESISTANCE	CONTACTS	1	2	3	4	5	6	7	8				
FG	5870				7											
FH	5871				1	5	25	22								
GQ	6197				27	3	22	29	9	6	25					C1
H	1816				3	6	9	22	25	27	29					C2
HA	60005				24	2	22	5								
HB	60005				24	2	22	5								
HR	MSD506				3	23										B
IP	2017				3	2										
IQ	10313P				1											
IR	10313P				1											

NOTES SPECIAL FACTORS OF SAFETY A
 SPECIAL ADJUSTMENTS B
 CIRCUIT POINTS OR MODIFICATIONS C

CLASS	RELAY	NOTES
C1	GQ	SPRINGS 7/8/9, 23/24/25 SPARE & UNWIRED
C2	H	" 1/2/3, 23/24/25, 26/27, 28/29 SPARE & UNWIRED

CHANGES	ISSUE 1	ORIGINATED BY A.E.I.	
	14-10-57		DATE 14.10.57
	NO CHANGE ALL SHTS. 155 No. MADE SIMILAR (74422)		SIGNED FOR COMMITTEE

155.3B 8-10-74 KG
 155.3C 23.11.78
 SHTS. 1,7 AMD. (193568) WAH
 NO CHANGE. SHT 7 AMD (38441) FB
 155.3D 5-10-83

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RELAY NAME	COMM CODE	IF NEW CODE (CARD ATTACHED)	DEPARTURES FROM DIAGRAM		SPRING NUMBERING CONTACT UNIT NUMBER								REFERENCES TO NOTES BELOW		
			RESISTANCE	CONTACTS	1	2	3	4	5	6	7	8			
KA	HS711				6 24 C										B
KB	HS711				6 24 C										B
LA	10322				2 1	6 5	4 3	22 21	24 23	26 25					C1
LB	10322				2 1	6 5	4 3	22 21	24 23	26 25					C2
LC	1425				22 21	1 2									
LD	1425				22 21	1 2									
LI	20507				5 34	23 22 21	1 2								
LT	5815				6 5	4 3	25 24 23	1 2	22 21						
NL	10068				1 2	22 21	24 23	4 3							B1 C3
PA	HS521				1 2 C										B2

NOTES	SPECIAL FACTORS OF SAFETY	A
	SPECIAL ADJUSTMENTS	B
	CIRCUIT POINTS OR MODIFICATIONS	C

CLASS	RELAY	NOTES
C1	LA	SPRINGS 1/2 SPARE & UN WIRE.D.
C2	LB	" 1/2 " " "
C3	NL	" 3/4 " " "
B1	NL	TEST & R.A. FIGURES
B2	PA	" " " "

CHANGES	ISSUE 1	ORIGINATED BY	AEI	
	14-10-57		DATE	14-10-57
	NO CHANGE ALL SHTS. 155. NO MADE SIMILAR (74422)		SIGNED FOR COMMITTEE	<i>[Signature]</i>

155. 3 24 4 63 R. G.
 NO CHANGE, SHT 1
 AMD. (122321)
 155. 3B 8-10-74 KG
 155. 3C 23.11.78
 SHTS. 1. 7 AMD.
 (193568) WAH
 NO CHANGE.
 SHT 7. AMD. (38441)
 155. 3D 7-10-83 FB

RELAY DESIGN FOR CIRCUIT

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2000 TYPE

COMMITTEE'S WIRING DIAGRAM N°

RELAY NAME	COMM CODE	IF NEW CODE (CARD ATTACHED)	DEPARTURES FROM DIAGRAM		SPRING NUMBERING CONTACT UNIT NUMBER								REFERENCES TO NOTES BELOW	
			RESISTANCE	CONTACTS	1	2	3	4	5	6	7	8		
PB	2318				1 ²	27 ²⁶	29 ²⁸	5 ³⁴	8 ⁷	25 ²³	22 ²¹			C1
PE	5911				7 ⁶	4 ³	24 ²⁵	22 ²¹	2 ¹	24 ²³				
PF	10137				1 ²	22 ²¹	24 ²³	5 ³⁴						
PG	20521				1 ²	4 ³	6 ⁵	24 ²³	22 ²¹					C2
PH	7288				1 ²	4 ³	22 ²¹	24 ²³						
PL	10068				1 ²	22 ²¹	24 ²³	3 ⁴						B1 C3
PO	1005				1 ²									
PP	HSD506				3 ¹²	23 ²²								B3
PT	H5522				6 ⁴									B4
PTA	HSD740				3 ¹²	23 ²²								B2 C4

NOTES	SPECIAL FACTORS OF SAFETY	A
	SPECIAL ADJUSTMENTS	B
	CIRCUIT POINTS OR MODIFICATIONS	C

CLASS	RELAY	NOTES
C1	PB	SPRINGS 23/24/25, 26/27, 28/29 SPARE & UNWIRED
C2	PG	" 3/4 & 21/22 SPARE & UNWIRED
C3	PL	SPRING 3/4 SPARE & UNWIRED.
C4	PTA	" 23 " & "
B1	PL	TEST & R.A.FIGURES.
B2	PTA	" & " "
B3	PP	" & " "
B4	PT	" & " "

CHANGES	ISSUE 1 14.10.57 RELAY PE WAS 5816 PTA " HS706 NOTES C4, B2, B3, B4 ADDED	ORIGINATED BY A.E.I.	
	ISSUE 2. 6.2.58 NO CHANGE ALL SHTS 155. NO MADE SIMILAR. (74422)		DATE 14.10.57
	ISSUE 3 24.4.63 NO CHANGE, SHT 1 AMD. (127321) 155.3B 8.10.74 155.3C 23.11.78 SHTS. 1, 7, AMD (193568) WAH NO CHANGE SHT 7 AMD (38441) 155.3D 5.10.83 FB		SIGNED FOR COMMITTEE <i>[Signature]</i>

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RELAY NAME	COMM CODE	IF NEW CODE (CARD ATTACHED)	DEPARTURES FROM DIAGRAM		SPRING NUMBERING CONTACT UNIT NUMBER								REFERENCES TO NOTES BELOW		
			RESISTANCE	CONTACTS	1	2	3	4	5	6	7	8			
PW	5423				22 21 M	2 1 B									
PX	20522				1 M	2 M	4 M	22 21 M	24 23 M	7 5 C	27 26 25 C				C1
PY	20523														
PZ	5872				3 12 C	22 21 M	6 4 C	25 23 C							C2
RT	72980				1 M	2 M	26 25 M	22 21 M	5 3 C	28 27 B	8 6 K	24 23 M			C3
SG	10147				22 21 M	3 12 C									C4
SR	5873				6 5 B	24 23 B	26 25 B	22 21 M	4 3 M	2 1 M					
SS	10146				1 M	2 M	4 M	22 21 M	7 5 C	27 26 25 C	24 23 M				
SZ	20525				1 M	2 M	22 21 M	4 3 M	24 23 M	6 5 B					
TA	HS521				6 24 C										B

NOTES SPECIAL FACTORS OF SAFETY A
 SPECIAL ADJUSTMENTS B
 CIRCUIT POINTS OR MODIFICATIONS C

CLASS RELAY NOTES

C1	PX	SPRING 7 SPARE & UNWIRED.
C2	PZ	SPRINGS 21/22 SPARE & UNWIRED.
C3	RT	SPRING 25 SPARE & UNWIRED.
C4	SG	SPRINGS 21/22 SPARE & UNWIRED.

CHANGES

ISSUE 1
 14-10-57
 NO CHANGE ALL
 SHTS 155, NO MADE
 SIMILAR (74422)
 155B 24-4-63
 NO CHANGE, SHT 1
 AMD. (12232)
 155.3B 8-10-74
 155.3C 23.11.78
 SHTS. 1, 7 AMD.
 (193568) WAH
 NO CHANGE. (3844)
 SHT 7 AMD.
 155.3D 5-10-83
 FB

ORIGINATED BY A.E.I.
 DATE 14.10.57
 SIGNED FOR COMMITTEE

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2000 TYPE

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RELAY NAME	COMM CODE	IF NEW CODE (CARD ATTACHED)	DEPARTURES FROM DIAGRAM		SPRING NUMBERING CONTACT UNIT NUMBER								REFERENCES TO NOTES BELOW			
			RESISTANCE	CONTACTS	1	2	3	4	5	6	7	8				
TD	4031				2 M	4 B	22 M									
TQ	7832				2 M	4 M	6 M	22 M	24 M	26 B						C1
TR	6035				2 M	4 M	6 M	22 M	24 M	26 M						C2
TS	10333				28 B	2 M	4 M	6 M	8 M	22 M	24 M	26 M				C3
TU	N.Z. 50680 AD				23 C	2 M	4 B									
WF	5725				22 B	5 C	6 C	7 C	25 C	28 C	27 M	2 M				C4
WG	5726				29 B	3 C	6 C	5 C	25 C	9 C	24 M	27 M				
WH	6050				2 M	4 M	22 M									
Z	5874				2 M	22 M	5 K	34								
RC	1524															

NOTES SPECIAL FACTORS OF SAFETY A
SPECIAL ADJUSTMENTS B
CIRCUIT POINTS OR MODIFICATIONS C

CLASS	RELAY	NOTES
C1	TQ	SPRINGS 25/26 SPARE & UNWIRED.
C2	TR	" 23/24 " " "
C3	TS	" 25/26 " " "
C4	WF	" 6/7/8 " " "

CHANGES	ISSUE 1 14.10.57 RELAY TO WAS 4786 NOTE C4 WAS C5.	ORIGINATED BY A E I.	
	ISSUE 2 6.2.58 NO CHANGE ALL SHTS 155 NO MADE SIMILAR (74422)		DATE 14.10.57
	ISSUE 3 24.4.68 NO CHANGE, SHT 1 AMD. (12232) 155.3B 8.10.74 155.3C 23.11.78 R.C. ADDED (193568) WAN NZ 50680 AD AMDED (38441) 155.3D 5.10.83 FB		SIGNED FOR COMMITTEE <i>[Signature]</i>