

RELAY DESIGN FOR CIRCUIT **GBW 15190 MOD A**  
 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					1 <sup>2</sup>										
AE	20517					1 <sup>2</sup>	5 <sup>6</sup>	25 <sup>26</sup>	3 <sup>4</sup>	21 <sup>22</sup>	27 <sup>28</sup>	23 <sup>24</sup>				C1
AO	1005					1 <sup>2</sup>										
AR	20489					1 <sup>2</sup>										
B	4365					3 <sup>12</sup>										
BA	5722					1 <sup>2</sup>	3 <sup>4</sup>	21 <sup>22</sup>	5 <sup>6</sup>	23 <sup>24</sup>						C2
BB	5722					1 <sup>2</sup>	3 <sup>4</sup>	21 <sup>22</sup>	5 <sup>6</sup>	23 <sup>24</sup>						C3
BI	7175					1 <sup>2</sup>	22 <sup>21</sup>									C4
BI	20491					1 <sup>2</sup>	22 <sup>21</sup>	3 <sup>4</sup>								C4
BT	40695pd					1 <sup>2</sup>	3 <sup>4</sup>	21 <sup>22</sup>	5 <sup>6</sup>	23 <sup>24</sup>						

EC 44199 EPG  
 DI IN4007  
 SCC STRIP TERM  
 TRI TRANSISTOR

NOTE:-

MOUNT COMPONENTS TO SUIT LOCAL CONDITIONS AND MARK UP RCCL ACCORDINGLY.

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

  

REF	DESIGN	BPO TYPE
A	R2/3/4	9
B	R7/8/16/17	12
C	R15	9
D	R8/10/11	9A (R8) 9 (R10/11)
E	R18/19/20/21	12
F	R12/13/14	9 (R12/13) 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

  

REF A	REF C	REF D	REF F	REF W
REF B	REF E	REF G	REF H	REF I
C2	MR1/7	MR4/5	MR8/9	
C4	MR2	MR6		
TS	WF	WH		
TU	WG	Z		
SG	SS	TA	TQ	
SH	SZ	TD	TR	
PT	PW	PY	RF	
PTA	PK	PZ	RC (SCA)	
PA	PE	PQ	PO	
PB	PF	PH	PP	
LA	LC	LI	NL	
LB	LD	LI	PL	
FH	H	HA	KA	
CQ	HR	HB	KB	
DC	DE	DU	FD	
DB	DR	DV	FE	

  

SEND	TEST	TC
AE	BA	BI
AO	BB	BT
A	DS	TQ
B	IP	IR

  

ISS CHANGES	APP	600	ORIGINATED BY	DATE	SIGNED FOR COMMITTEE
A	151265/12	22-11-65 (54626)	A.E.I.	14.10.57	[Signature]

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

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			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	8 8	6 4	5 5	25 24 23		C1	
DC	5868					1 2										
DD	5875				23 22 21	4 3	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	23 24	7 5	6 6	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.

ISS CHANGES	APP	600	ORIGINATED BY	A.E.I.
15/12/57/12			DATE	14.10.57
22.11.55			SIGNED FOR COMMITTEE	<i>[Signature]</i>
(54626)				

RELAY DESIGN FOR CIRCUIT

GBW 15190 MOD-A

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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				2											
					M											
FH	5871				2	5	25	22								
					1	3	23	21								
					M	C	K	M								
GQ	6197				27	3	22	29	9	6	25					C1
					16	1	21	28	7	4	24					
					M	C	M	B	C	C	C					
H	1816				3	6	9	22	25							C2
					12	4	7	21	24	23	26					
					C	C	C	M	C	M	M					
HA	60005				24	2	22	5								
					23	1	21	3	4							
					B	M	M	C								
HB	60005				24	2	22	5								
					23	1	21	3	4							
					B	M	M	C								
HR	HSD506				3	23										B
					12	22										
					C	C										
IP	2017				3											
					12											
					C											
IQ	10313P				1											
					M											
IR	10313P				1											
					M											

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

ISS CHANGES APP  
 A (REF 151265/12 CCG  
 22-11-55  
 (54626)

ORIGINATED BY A.E.I.  
 DATE 14. 10. 57  
 SIGNED FOR COMMITTEE

RELAY DESIGN FOR CIRCUIT **GBW 15190 MODA**  
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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	3 4	22 21	24 23	2 1					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 3	4 3	25 24 23	1 2	22 21						
NL	10068				2 1	22 21	24 23	4 3							B1 C3
PA	HS521				24 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 & UNWIRED.
C2	LB	" 1/2 " " "
C3	NL	" 3/4 " " "
B1	NL	TEST & R.A. FIGURES
B2	PA	" " " "

ISS CHANGES APP REF IS 1265/12 22-11-85 (54626)	ORIGINATED BY	A. E. I.
	DATE	14-11-57
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			RESISTANCE	CONTACTS	1	2	3	4	5	6	7	8						
PB	2318				1 <sup>2</sup>	27 <sup>26</sup>	29 <sup>28</sup>	5 <sup>34</sup>	8 <sup>67</sup>	25 <sup>24</sup>	22 <sup>21</sup>							C1
					M	B	B	C	C	C	M							
PE	5911				7 <sup>6</sup>	4 <sup>3</sup>	27 <sup>26</sup>	22 <sup>21</sup>	2 <sup>1</sup>	24 <sup>23</sup>								
					C	M	C	M	M	B								
PF	10137				1 <sup>2</sup>	22 <sup>21</sup>	24 <sup>23</sup>	5 <sup>34</sup>										
					M	B	B	C										
PG	20521				1 <sup>2</sup>	4 <sup>3</sup>	6 <sup>5</sup>	25 <sup>24</sup>	22 <sup>21</sup>									C2
					M	B	B	C	M									
PH	7288				1 <sup>2</sup>	4 <sup>3</sup>	27 <sup>26</sup>	24 <sup>23</sup>										
					M	M	M	M										
PL	10068				1 <sup>2</sup>	22 <sup>21</sup>	24 <sup>23</sup>	4 <sup>3</sup>										B1 C3
					M	M	B	M										
PO	1005				1 <sup>2</sup>													
					M													
PP	HSD506				3 <sup>12</sup>	23 <sup>22</sup>												B3
					C	C												
PT	HS522				6 <sup>4</sup>													B4
					C													
PTA	HSD740				3 <sup>12</sup>	23 <sup>22</sup>												B2 C4
					C	C												

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	" & " "

ISS CHANGES APP  
A REF 151265/12 Gcc  
22-11-95  
(54626)

ORIGINATED BY AEI  
DATE 14.10.57  
SIGNED FOR COMMITTEE

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			RESISTANCE	CONTACTS	1	2	3	4	5	6	7	8				
PW	5423				22 21	2 1										
PX	20522						4 3	22 21	24 23	7 5	27 26 25					C1
PY	20523															
PZ	5872															C2
RT	72980															C3
SG	10147															C4
SR	5873															
SS	10146															
SZ	20525															
TA	HS521															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 APP 15 1265/12 22-11-55 (54625) A	ORIGINATED BY	A.E.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			
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	5 M	F M	2 M	24 M	26 M		C3
TU	N.Z. 50680 AD				23 C	2 M	4 B								
WF	5725				22 B	5 C	8 C	25 C	28 C	29 M	2 M				C4
WG	5726				29 B	3 C	6 C	25 C	28 C	9 C	8 M	22 M	27 M		
WH	6050				2 M	4 M	22 M								
Z	5874				2 M	22 M	5 K	3 K							
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 " " "

APPROVED GCG	ORIGINATED BY A E I
CHANGES 19.12.65/12 22.11.65 (54626)	DATE 14.10.57
SIGNED FOR COMMITTEE	<i>[Signature]</i>