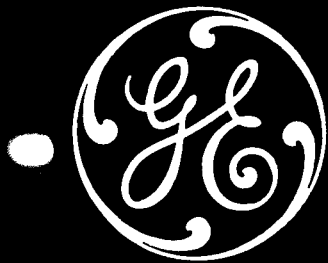
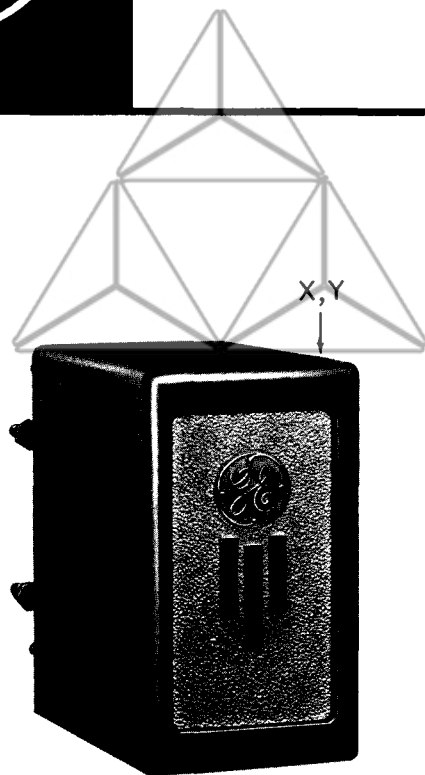


# RENEWAL PARTS

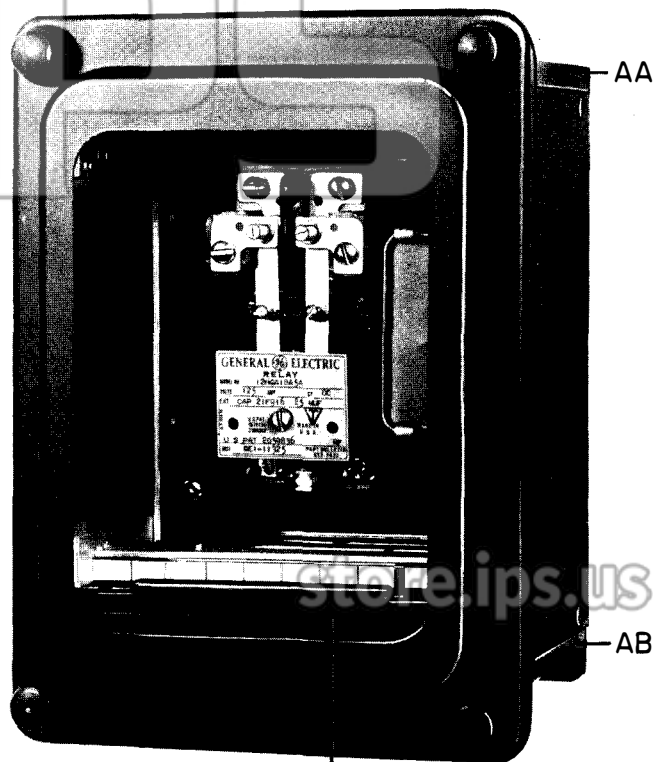


## TYPE HGA AUXILIARY RELAYS



(PHOTO 851505)

**Fig. 1. Type HGA11A auxiliary relay (typical of relays with small molded cover)**



(PHOTO 8007533)

**Fig. 2. Type HGA18 reclosing relay (typical of relays in drawout "A" case)**

### ORDERING INSTRUCTIONS

1. Always specify the complete nameplate data of the relay.
2. Specify the quantity, catalog number (if listed), reference number (if listed), description, and this bulletin number.
3. Standard hardware, such as screws, bolts, nuts, washers, etc., is not listed in this bulletin. Such items should be purchased locally.
4. For prices refer to the nearest office of the General Electric Company.

When ordering renewal parts, give quantity, catalog number, description of each item required, and complete nameplate reading.





Relay models covered by this bulletin are listed in the left hand column of the tabulation beginning on page 4.

To find the catalog number of a renewal part:

- (1) From illustrations on pages 1 and 3, find reference letter for required part. (Reference AE is not illustrated.)
- (2) Locate reference letter and/or description of part in column headings at top of tabulation.
- (3) Note numeral at intersection of reference letter column and model number line. This numeral, when added to reference letter, provides key to catalog number of part, which is listed in table on page indicated.

Example:

store.ips.us

To find catalog number of adjustable stationary contact for model 12HGA14A6 relay:

- (1) Figure 3 on page 3 indicates that reference letter for adjustable stationary contact is "M".
- (2) Locate reference letter "M" in column headings on page 4.
- (3) At intersection of "M" column and model 12HGA14A line find numeral "1". Complete reference symbol is therefore "M-1". Referring to page 7, catalog number is found to be 6076469G1 (two required per relay).

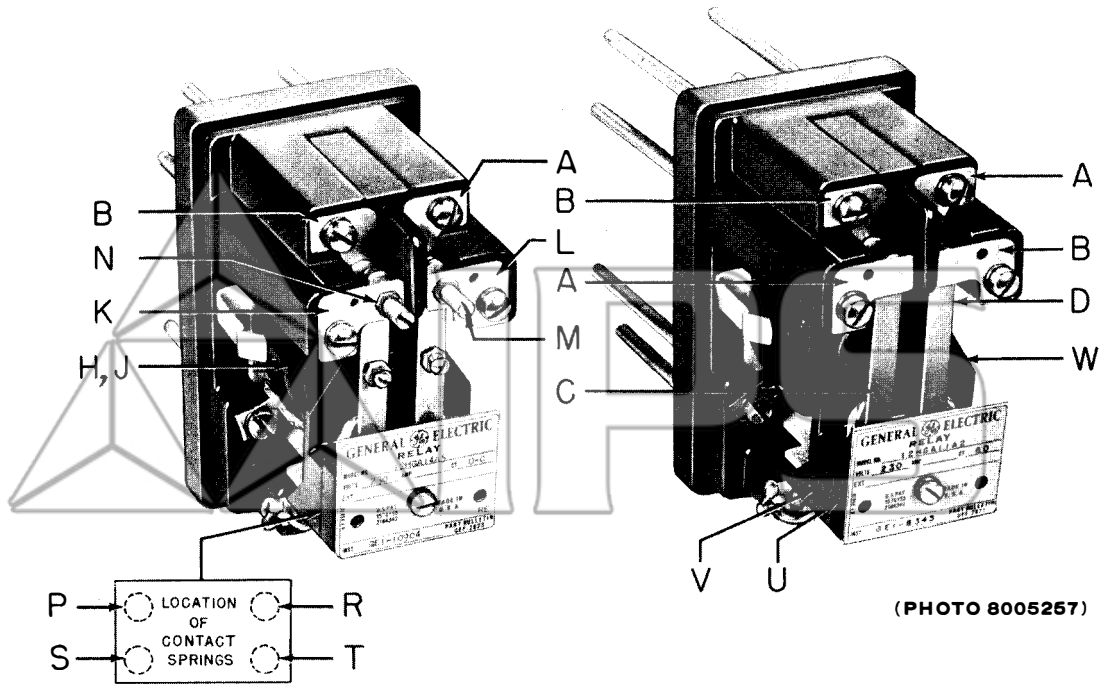


Fig. 3. Type HGA14 relay (cover removed)

Fig. 4. Type HGA11 relay (cover removed)

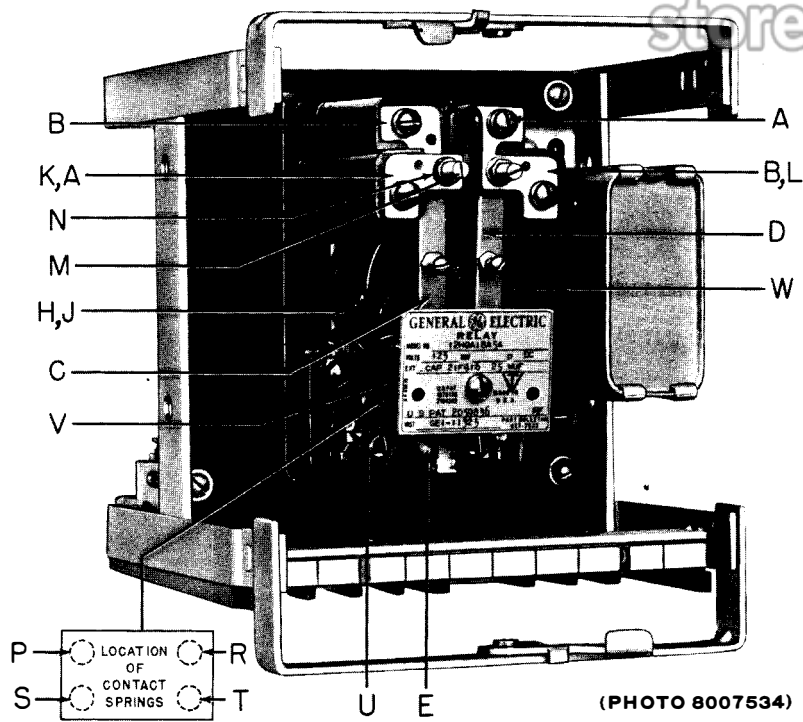


Fig. 5. Type HGA18 relay unit removed from enclosing case

TYPE HGA AUXILIARY RELAYS

RELAY MODEL NUMBER	STATIONARY CONTACT, LEFT FRONT OR RIGHT BACK	STATIONARY CONTACT, RIGHT FRONT OR LEFT BACK	MOVABLE CONTACT, LEFT	MOVABLE CONTACT, RIGHT	CONTROL SPRING	MOVABLE CONTACT, FRONT	STATIONARY CONTACT, UPPER LEFT OR UPPER RIGHT	OPERATING COIL	OPERATING COIL	STATIONARY CONTACT PLATE, LEFT FRONT	STATIONARY CONTACT PLATE, RIGHT FRONT	ADJUSTABLE STATIONARY CONTACT	NUT FOR ADJUSTABLE STATIONARY CONTACT	CONTACT SPRING, UPPER LEFT	CONTACT SPRING, UPPER RIGHT	CONTACT SPRING, LOWER LEFT	CONTACT SPRING, LOWER RIGHT	SPRING HOUSING	CONTACT SUPPORT	ARMATURE	MOLDED COVER	MOLDED COVER (WITH GLASS)	TERMINAL BLOCK, UPPER	TERMINAL BLOCK, LOWER	CONNECTING PLUG	TARGET UNIT AND COIL
	Page	7	7	7	7	7	7	9-15	16-17	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8
Ref.	*A	*B	*C	*D	*E	*†F	*†G	*H	*J	*K	*L	*M	*N	P	R	S	T	U	V	W	X	Y	AA	AB	AC	*†AE
12HGA11A1 to 157	1	1	1	1	1	—	—	++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA11B1 to 20	1	1	1	1	1	—	—	++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA11E1R to 10R	4	4	2	2	2	—	—	++++	—	—	—	—	—	2	2	—	—	2	2	2	—	—	1	1	1	—
12HGA11F1R to 10R	4	4	2	2	2	—	—	++++	—	—	—	—	—	2	2	—	—	2	2	2	—	—	2	2	1	—
12HGA11H51 to 157	1	1	1	1	1	—	—	++++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA11J51 to 157	1	1	1	1	1	—	—	++++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA11K51 to 157	1	1	1	1	1	—	—	++++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA11L1 to 6	1	1	1	1	1	—	—	++++	—	—	—	—	—	3	3	—	—	1	1	1	1	—	—	—	—	—
12HGA11M1 to 3	1	1	1	1	1	—	—	++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA11N1A to 311A	1	1	11	11	8	—	—	—	§§§	1	1	3	3	1	1	—	—	5	4	3	—	7	5	8	1	—
12HGA11R1A to 13A	1	1	11	11	8	—	—	—	§§§	1	1	3	3	1	1	—	—	5	4	3	—	7	8	2	—	
12HGA12A1 to 20	1	1	1	1	1	—	—	+	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA12B1 to 19	1	1	1	1	1	—	—	++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA12C1 to 20	1	1	1	1	1	—	—	++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA12D1 to 16	1	1	1	1	1	—	—	++++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA12E1 to 16	1	1	1	1	1	—	—	++++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA12F1 to 16	1	1	1	1	1	—	—	++++	—	—	—	—	—	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA13A1 to 35	—	1	1	3	3	—	—	++++	—	—	—	—	—	1	—	—	1	3	3	1	—	3	—	—	—	—
12HGA13B1 to 7	1	1	1	3	1	—	—	++++	—	—	—	—	—	1	—	—	—	4	3	1	—	4	—	—	—	—
12HGA14A1 to 155	2	2	3	4	3	—	—	++++	—	2	2	1	1	4	4	—	—	1	1	1	1	—	—	—	—	—
12HGA14B1 to 15	2	2	3	4	3	—	—	++++	—	3	2	2	2	5	5	—	—	1	1	1	1	—	—	—	—	—
12HGA14D1 to 6	2	2	3	4	3	—	—	++++	—	3	2	2	2	4	4	—	—	1	1	1	1	—	—	—	—	—
12HGA14J1 to 2	2	2	4	6	3	—	—	++++	—	2	2	1	1	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA14K1 to 10	2	2	4	6	1	—	—	++	—	2	2	1	1	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA14L1A to 4A	2	2	4	6	3	—	—	++	—	2	2	1	1	4	4	—	—	1	1	1	—	6	9	1	—	—
12HGA14M1 to 10	2	—	5	5	3	—	—	++++	—	2	—	2	2	1	1	—	—	1	1	1	1	2	—	—	—	—
12HGA14N1 to 10	2	2	3	4	3	—	—	++++	—	2	2	1	1	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA14R1	2	2	3	4	1	—	—	++++	—	2	2	1	1	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA14S1A to 16A	2	2	3	4	3	—	—	++++	—	3	2	2	2	4	4	—	—	1	1	1	—	—	3	2	—	—
12HGA14V2	2	2	4	6	3	—	—	++++	—	3	2	2	2	4	4	—	—	1	1	1	1	—	—	—	—	—
12HGA14W1 to 2	2	2	1	1	3	—	—	++++	—	2	2	1	1	4	4	—	—	1	1	1	1	—	—	—	—	—
12HGA14X1 to 2	2	2	1	1	3	—	—	++	—	2	2	1	1	1	1	—	—	1	1	1	1	—	—	—	—	—
12HGA14AA1A to 311A	1	1	4	6	4	—	—	—	§§	1	1	3	3	4	4	—	—	5	4	3	—	6	9	2	—	
12HGA14AB1A to 311A	1	1	4	6	4	—	—	—	§§	1	1	3	3	4	4	—	—	5	4	3	—	5	8	3	—	
12HGA14AC1A to 3A	2	2	4	6	3	—	—	++	—	2	2	1	1	4	4	—	—	1	1	1	—	—	—	—	—	—
12HGA14AD51 to 155	2	2	4	6	3	—	—	++	—	2	2	1	1	4	4	—	—	1	1	1	—	—	—	—	—	—

\*Recommended for normal maintenance  
†Not illustrated  
‡Select proper coil from table starting on page 9  
§Select proper coil from table starting on page 16

**RELAY MODEL NUMBER**

RELAY MODEL NUMBER	STATIONARY CONTACT, LEFT FRONT OR RIGHT BACK	STATIONARY CONTACT, RIGHT FRONT OR LEFT BACK	MOVABLE CONTACT, LEFT	MOVABLE CONTACT, RIGHT	CONTROL SPRING	MOVABLE CONTACT, FRONT	STATIONARY CONTACT, UPPER LEFT OR UPPER RIGHT	OPERATING COIL	OPERATING COIL	STATIONARY CONTACT PLATE, LEFT FRONT	STATIONARY CONTACT PLATE, RIGHT FRONT	ADJUSTABLE STATIONARY CONTACT	NUT FOR ADJUSTABLE STATIONARY CONTACT	CONTACT SPRING, UPPER LEFT	CONTACT SPRING, UPPER RIGHT	CONTACT SPRING, LOWER LEFT	CONTACT SPRING, LOWER RIGHT	SPRING HOUSING	CONTACT SUPPORT	ARMATURE	MOLDED COVER	MOLDED COVER (WITH GLASS)	TERMINAL BLOCK, UPPER	TERMINAL BLOCK, LOWER	CONNECTING PLUG	TARGET UNIT AND COIL
Page	7	7	7	7	7	7	7	9-15	16-17	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8
Ref.	*A	*B	*C	*D	*E	*F	*G	*H	*J	*K	*L	*M	*N	P	R	S	T	U	V	W	X	Y	AA	AB	AC	*†AE
12HGA14AE51 to 155	2	2	4	6	1	—	—	†	—	2	2	1	1	1	4	4	—	1	1	1	2	2	—	—	—	—
12HGA14AF51 to 155	2	2	4	6	3	—	—	†	—	2	2	1	1	4	4	—	1	1	1	2	2	—	—	—	—	
12HGA14AH1A to 13A	2	2	3	4	3	—	—	†	—	2	2	1	1	4	4	—	1	1	1	—	—	—	4	2	—	
12HGA14AJ1	2	2	6	5	1	—	—	†	—	2	2	2	2	5	5	1	1	1	1	2	2	—	—	—	—	
12HGA14AK1 to 2A	2	2	3	4	3	—	—	†	—	2	2	2	2	4	4	—	1	1	1	2	2	—	—	10	1	
12HGA14AL1 to 22	2	2	3	4	3	—	—	†	—	2	2	2	2	5	5	—	—	1	1	1	2	2	—	—	—	
12HGA14AM1 to 22	2	2	3	4	3	—	—	†	—	2	2	2	2	5	5	—	—	1	1	1	2	2	—	—	—	
12HGA14AN1A	2	2	3	4	3	—	—	†	—	3	3	—	—	4	4	—	—	1	1	1	2	2	—	3	1	
12HGA14AR1A	2	2	3	4	3	—	—	†	—	2	2	2	2	4	4	—	—	1	1	1	—	6	—	11	1	
12HGA14AS1	2	2	3	4	3	—	—	†	—	3	3	—	—	5	5	—	—	1	1	1	2	3	—	—	—	
12HGA15A1 to 2	5	5	1	1	1	—	—	†	—	3	2	2	2	1	1	—	—	1	1	1	—	—	—	—	—	
12HGA15F1 to 36	1	1	1	1	1	—	—	†	—	3	—	—	—	1	5	—	—	1	1	1	—	—	—	—	—	
12HGA15H1 to 19	1	1	1	1	1	—	—	†	—	—	—	—	—	1	1	—	—	1	1	1	—	—	—	—	—	
12HGA15J1 to 57	1	1	1	1	1	—	—	†	—	—	—	—	—	1	1	—	—	1	1	1	2	2	—	—	—	
12HGA15K1 to 40	1	1	1	1	1	—	—	†	—	—	—	—	—	1	1	—	—	1	1	1	2	2	—	—	—	
12HGA15L1 to 17	1	1	1	1	1	—	—	†	—	—	—	—	—	1	1	—	—	1	1	1	—	—	—	—	—	
12HGA15M1 to 27	1	1	1	1	1	—	—	†	—	—	—	—	—	1	1	—	—	1	1	1	—	—	—	—	—	
12HGA15N1 to 5, 7 to 9, 13, 14, 19, 22 to 25	2	2	3	4	1	—	—	†	—	2	2	1	1	4	4	—	—	1	1	1	—	—	—	—	—	
12HGA15N6, 10 to 12, 15 to 18, 21	2	2	3	4	3	—	—	†	—	2	2	1	1	4	4	—	—	1	1	1	—	—	—	—	—	
12HGA15R1 to 37	1	2	1	1	3	—	—	†	—	3	—	—	—	4	4	—	—	1	1	1	2	2	—	—	—	
12HGA15S1 to 20	2	2	3	4	1	—	—	†	—	2	2	2	2	1	1	—	—	1	1	1	1	2	—	—	—	
12HGA15T1 to 5, 7 to 9, 13, 14, 19, 22 to 28, 31, 33, 34, 41 to 45, 47 to 49, 53, 54, 59, 62 to 68, 71, 73, 74, 77	2	2	3	4	1	—	—	†	—	2	2	1	1	4	4	—	—	1	1	1	2	2	—	—	—	
12HGA15T6, 10 to 12, 15 to 18, 21, 29, 30, 35, 36, 46, 50 to 52, 55 to 58, 61, 69, 70, 75, 76	2	2	3	4	3	—	—	†	—	2	2	1	1	4	4	—	—	1	1	1	2	2	—	—	—	
12HGA15V2	2	2	3	4	3	—	—	†	—	3	2	2	2	4	4	—	—	1	1	1	—	—	—	—	—	
12HGA15W1 to 17	2	2	3	4	3	—	—	†	—	3	2	2	2	5	5	—	—	1	1	1	2	2	—	—	—	
12HGA16A1 to 15	1	1	7	7	5	1	—	†	—	—	—	—	—	6	6	2	2	6	1	1	1	1	—	—	—	
12HGA16B1 to 2	2	—	1	1	1	—	—	†	—	2	—	2	2	1	1	—	—	1	1	1	2	—	—	—	—	

\*Recommended for normal maintenance

†Not illustrated

‡Select proper coil from table starting on page 9

§Select proper coil from table starting on page 16

**TYPE HGA AUXILIARY RELAYS**

GEF-2623E

TYPE HGA AUXILIARY RELAYS

RELAY MODEL NUMBER	STATIONARY CONTACT, LEFT FRONT OR RIGHT BACK	STATIONARY CONTACT, RIGHT FRONT OR LEFT BACK	MOVABLE CONTACT, LEFT	MOVABLE CONTACT, RIGHT	CONTROL SPRING	MOVABLE CONTACT, FRONT	STATIONARY CONTACT, UPPER LEFT OR UPPER RIGHT	OPERATING COIL	OPERATING COIL	STATIONARY CONTACT PLATE, LEFT FRONT	STATIONARY CONTACT PLATE, RIGHT FRONT	ADJUSTABLE STATIONARY CONTACT	NUT FOR ADJUSTABLE STATIONARY CONTACT	CONTACT SPRING, UPPER LEFT	CONTACT SPRING, UPPER RIGHT	CONTACT SPRING, LOWER LEFT	CONTACT SPRING, LOWER RIGHT	SPRING HOUSING	CONTACT SUPPORT	ARMATURE	MOLDED COVER	MOLDED COVER (WITH GLASS)	TERMINAL BLOCK, UPPER	TERMINAL BLOCK, LOWER	CONNECTING PLUG	TARGET UNIT AND COIL
	Page	7	7	7	7	7	7	9-15	16-17	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8
	Ref.	*A	*B	*C	*D	*E	*†F	*†G	*H	*J	*K	*L	*M	*N	P	R	S	T	U	V	W	X	Y	AA	AB	AC
12HGA17A1 to 65	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	4	1	1	—	—	—	—
12HGA17B3 to 65	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	4	1	1	—	—	—	
12HGA17C1 to 65	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	4	2	2	—	—	—	
12HGA17D1 to 65	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	4	2	2	—	—	—	
12HGA17E1 to 65	—	—	1	1	3	—	—	†††	—	2	2	1	1	1	1	—	—	1	1	4	2	2	—	—	—	
12HGA17F1 to 65	—	—	1	1	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	4	2	2	—	—	—	
12HGA17H1 to 65	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	4	1	1	—	—	—	
12HGA17J1A to 7A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	4	—	—	4	2	—	
12HGA17L1A to 7A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	4	—	—	4	2	—	
12HGA18A1A to 13A	2	2	3	4	3	—	—	††	—	2	2	2	2	4	4	—	—	1	1	1	—	—	5	2	—	
12HGA18B1A to 3A, 5A, 10A to 13A, 15A, 21A to 23A, 25A	2	2	3	4	3	—	—	†	—	2	2	1	1	4	4	—	—	1	1	1	—	—	5	2	1	
12HGA18B4A, 6A, 14A, 16A, 24A, 26A	2	2	3	4	3	—	—	††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	3	5	1	
12HGA18E1A to 11A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	6	2	1	
12HGA18F1A to 8A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	6	6	1	
12HGA18F10A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	6	6	2	
12HGA18F11A to 18A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	6	6	3	
12HGA18F21A to 28A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	6	6	4	
12HGA18H1A	2	2	3	4	3	—	—	†††	—	2	2	2	2	4	4	—	—	1	1	1	—	—	3	6	1	
12HGA18H2A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	3	6	1	
12HGA18J1A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	3	6	1	
12HGA18J2A	2	2	3	4	3	—	—	†††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	3	6	1	
12HGA18J3A	2	2	3	4	3	—	—	††	—	2	2	1	1	4	4	—	—	1	1	1	—	—	3	6	1	
12HGA19B1 to 16	1	—	1	1	1	—	—	††	—	—	—	3	—	1	1	—	—	1	1	1	1	—	—	—	—	
12HGA20A1 to 4	5	—	1	1	—	—	—	†††	—	5	3	—	—	1	1	—	—	1	1	1	—	—	—	—	—	
12HGA21A1 to 2	2	1	1	1	1	—	—	†††	—	—	—	—	—	4	4	—	—	1	1	1	—	—	—	—	—	
12HGA21B1 to 3	2	1	1	1	1	—	—	†††	—	—	—	—	—	4	4	—	—	1	1	1	—	—	—	—	—	
12HGA22A1	2	2	1	1	1	—	—	†††	—	3	3	—	—	1	1	—	—	1	1	1	—	—	—	—	—	
12HGA23A1	2	—	—	1	1	—	—	†††	—	—	2	—	—	1	1	—	—	1	1	1	—	—	—	—	—	
12HGA24A1 to 3	2	1	1	1	3	—	—	†††	—	—	—	—	—	4	4	—	—	1	1	1	2	—	—	—	—	
12HGA26A1 to 5	—	—	8	8	3	—	—	†††	—	2	2	1	—	—	—	—	—	—	—	5	2	—	—	—	—	
12HGA26B1 to 5	—	—	8	8	3	—	—	†††	—	2	2	1	—	—	—	—	—	—	—	5	2	—	—	—	—	
12HGA30A1	2	2	9	9	7	—	—	†††	—	—	—	—	—	—	—	—	—	—	—	5	6	—	—	—	—	
12HGA31A2	2	2	10	10	6	—	—	†††	—	—	—	—	—	—	—	—	—	—	—	6	—	—	—	—	—	

\*Recommended for normal maintenance  
 †Not illustrated  
 ‡Select proper coil from table starting on page 9  
 §Select proper coil from table starting on page 16



# TYPE HGA AUXILIARY RELAYS

GEF-2623E

REF. SYMBOL	FIG. NO.	CATALOG NUMBER	No. REQ.
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**TABLE A**  
STATIONARY CONTACT, LEFT FRONT OR RIGHT BACK

A-1	3, 4, 5	6075870G3	2
A-2	3, 4, 5	6075870G3	1
A-3	3, 4, 5	6075870G3	4
A-4	3, 4, 5	6075870G3	3
A-5	3, 4, 5	6075870G5	1

**TABLE B**  
STATIONARY CONTACT, RIGHT FRONT OR LEFT BACK

B-1	3, 4, 5	6075870G4	2
B-2	3, 4, 5	6075870G4	1
B-3	3, 4, 5	6075870G4	4
B-4	3, 4, 5	6075870G4	3
B-5	3, 4, 5	6075870G5	1

**TABLE C**  
MOVABLE CONTACT, LEFT

C-1	4, 5	6118684G1	1
C-2	4, 5	6118684G1	3
C-3	4, 5	6118684G2	1
C-4	4, 5	6118684G2	2
C-5	4, 5	6118684G4	1
C-6	4, 5	6118684P22	1
C-7	4, 5	6118684G3	1
C-8	4, 5	6375917G1	1
C-9	4, 5	6152186G1	1
C-10	4, 5	6152186G2	1
C-11	4, 5	6118684G1	2

**TABLE D**  
MOVABLE CONTACT, RIGHT

D-1	4, 5	6118684G1	1
D-2	4, 5	6118684G1	3
D-3	4, 5	6140640P1	1
D-4	4, 5	6118684G2	1
D-5	4, 5	6118684G4	1
D-6	4, 5	6118684G2	2
D-7	4, 5	6118684G3	1
D-8	4, 5	6375917G1	1
D-9	4, 5	6152186G1	1
D-10	4, 5	6152186G2	1
D-11	4, 5	6118684G1	2

**TABLE E**  
CONTROL SPRING

E-1	5	6078999P1	1
E-2	5	6078999P1	3
E-3	5	6074244P1	1
E-4	5	6074244P1	2
E-5	5	6079856P1	1
E-6	5	2411438P1	1
E-7	5	2411438P1	2
E-8	5	6078999P1	2

REF. SYMBOL	FIG. NO.	CATALOG NUMBER	No. REQ.
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**TABLE F**  
MOVABLE CONTACT, FRONT

F-1	†	6174366G1	1
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**TABLE G**  
STATIONARY CONTACT, UPPER LEFT OR UPPER RIGHT

G-1	†	6118675G2	2
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**TABLE K**  
STATIONARY CONTACT PLATE, LEFT FRONT

K-1	3, 5	6056767P3	2
K-2	3, 5	6056767P3	1
K-3	3, 5	6056767P2	1
K-4	3, 5	6056767P2	2
K-5	3, 5	6056767G5	1

**TABLE L**  
STATIONARY CONTACT PLATE, RIGHT FRONT

L-1	3, 5	6056767P3	2
L-2	3, 5	6056767P3	1
L-3	3, 5	6056767P2	1
L-4	3, 5	6056767P2	2

**TABLE M**  
ADJUSTABLE STATIONARY CONTACT

M-1	3, 5	6076469G1	2
M-2	3, 5	6076469G1	1
M-3	3, 5	6076469G1	4

**TABLE N**  
NUT FOR ADJUSTABLE STATIONARY CONTACT

N-1	3, 5	1750758P1	2
N-2	3, 5	1750758P1	1
N-3	3, 5	1750758P1	4

**TABLE P**  
CONTACT SPRING, UPPER LEFT

P-1	3, 5	6078998P1	1
P-2	3, 5	6078998P1	3
P-3	3, 5	6079851P1	1
P-4	3, 5	6078997P1	1
P-5	3, 5	6079857P1	1
P-6	3, 5	6079852P1	1
P-7	3, 5	6078997P1	2

† Not illustrated

TYPE HGA AUXILIARY RELAYS

REF. SYMBOL	FIG. NO.	CATALOG NUMBER	NO. REQ.
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TABLE R  
CONTACT SPRING, UPPER RIGHT

R-1	3,5	6078998P1	1
R-2	3,5	6078998P1	3
R-3	3,5	6079851P1	1
R-4	3,5	6078997P1	1
R-5	3,5	6079857P1	1
R-6	3,5	6079852P1	1
R-7	3,5	6078997P1	2

TABLE S  
CONTACT SPRING, LOWER LEFT

S-1	3,5	6078998P1	1
S-2	3,5	6079853P1	1
S-3	3,5	6078998P1	2

TABLE T  
CONTACT SPRING, LOWER RIGHT

T-1	3,5	6078998P1	1
T-2	3,5	6079853P1	1
T-3	3,5	6078998P1	2

TABLE U  
SPRING HOUSING

U-1	4,5	378A598	1
U-2	4,5	378A598	3
U-3	4,5	378A598	1
U-4	4,5	6154550P1	1
U-5	4,5	378A598	2
U-6	4,5	378A598	1

TABLE V  
CONTACT SUPPORT

V-1	4,5	6118683P1	1
V-2	4,5	6118683P1	3
V-3	4,5	6174455P1	1
V-4	4,5	6118683P1	2

TABLE W  
ARMATURE

W-1	4,5	6056766P1	1
W-2	4,5	6056766P1	3
W-3	4,5	6056766P1	2
W-4	4,5	6056766P3	1
W-5	4,5	6056766P4	1
W-6	4,5	6152185P1	1

TABLE X  
MOLDED COVER

X-1	1	6118536P1	1
X-2	1	6375932P1	1

REF. SYMBOL	FIG. NO.	CATALOG NUMBER	NO. REQ.
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TABLE Y  
MOLDED COVER (WITH GLASS)

Y-1	†	6118588G1	1
Y-2	†	6118588G1	1
Y-3	†	6118588G2	1
Y-4	†	6118588G4	1

TABLE AA  
TERMINAL BLOCK, UPPER

AA-1	2	6193049G60	1
AA-2	2	6193049G211	1
AA-3	2	6418058G64	1
AA-4	2	6193049G45	1
AA-5	2	6418058G237	1
AA-6	2	6418058G231	1

TABLE AB  
TERMINAL BLOCK, LOWER

AB-1	2	6193049G60	1
AB-2	2	6193049G212	1
AB-3	2	6418058G45	1
AB-4	2	6418058G24	1
AB-5	2	6418058G62	1
AB-6	2	6418058G106	1
AB-7	2	6193049G210	1
AB-8	2	6418058G237	1
AB-9	2	6418058G209	1
AB-10	2	6418058G250	1
AB-11	2	6418058G65	1
AB-12	2	6193049G106	1

TABLE AC  
CONNECTING PLUG

AC-1	2	6118736G1	2
AC-2	2	6118736G1	1
AC-3	2	6418049G3(lower)	1
AC-4	2	6418049G4(upper)	1

TABLE AE  
TARGET UNIT COMPLETE

REF. SYMBOL	FIG. NO.	CATALOG NUMBER		NO. REQ.
		TARGET COIL	TARGET UNIT	
AE-1	†	6174328G3	6052735G15	1
AE-2	†	6174328G7	6052735G21	1
AE-3	†	6174328G5	6052735G16	1
AE-4	†	6174328G6	6052735G36	1

† Not illustrated



# TYPE HGA AUXILIARY RELAYS

GEF-2623E

**TABLE H — OPERATING COILS**  
 SINGLE-UNIT RELAYS (ONE COIL REQUIRED)  
 (OR) THREE-UNIT RELAYS (THREE COILS REQUIRED PER COMPLETE RELAY)

RELAY MODEL NO.	COIL CAT. NO.	RELAY MODEL NO.	COIL CAT. NO.	RELAY MODEL NO.	COIL CAT. NO.	RELAY MODEL NO.	COIL CAT. NO.
12HGA11A1	6306774G47	12HGA11A82	6306774G58	12HGA11B13	6306774G4	12HGA11H90	6306774G50
12HGA11A2	6306774G41	12HGA11A83	6306774G57	12HGA11A14	6306774G11	12HGA11H91	6306774G50
12HGA11A3	6306774G37	12HGA11A84	6306774G55	12HGA11B15	6306774G8	12HGA11H94	6306774G42
12HGA11A4	6306774G35	12HGA11A85	6306774G54	12HGA11B16	6306774G6	12HGA11H95	6306774G78
12HGA11A5	6306774G46	12HGA11A86	6306774G56	12HGA11B17	6306774G11	12HGA11H96	6306774G53
12HGA11A6	6306774G39	12HGA11A87	6306774G55	12HGA11B18	6306774G2	12HGA11H97	6306774G45
12HGA11A7	6306774G36	12HGA11A88	6306774G52	12HGA11B19	6306774G24	12HGA11H98	6306774G46
12HGA11A8	6306774G34	12HGA11A89	6306774G51	12HGA11B20	6306774G5	12HGA11H99	6306774G45
12HGA11A9	6306774G41	12HGA11A90	6306774G50	12HGA11E1R	6306774G1	12HGA11H101	6306774G45
12HGA11A10	6306774G36	12HGA11A91	6306774G50	12HGA11E2R	6306774G3	12HGA11H102	6306774G42
12HGA11A11	6306774G32	12HGA11A94	6306774G42	12HGA11E3R	6306774G7	12HGA11H104	6306774G41
12HGA11A12	6306774G31	12HGA11A95	6306774G78	12HGA11E4R	6306774G9	12HGA11H105	6306774G42
12HGA11A13	6306774G56	12HGA11A96	6306774G53	12HGA11E5R	6306774G10	12HGA11H106	6306774G33
12HGA11A14	6306774G54	12HGA11A97	6306774G45	12HGA11E6R	6306774G13	12HGA11H107	6306774G40
12HGA11A15	6306774G49	12HGA11A98	6306774G46	12HGA11E7R	6306774G15	12HGA11H108	6306774G39
12HGA11A16	6306774G33	12HGA11A99	6306774G45	12HGA11E8R	6306774G16	12HGA11H109	6306774G39
12HGA11A17	6306774G54	12HGA11A101	6306774G45	12HGA11E9R	6306774G17	12HGA11H110	6306774G39
12HGA11A18	6306774G46	12HGA11A102	6306774G42	12HGA11E10R	6306774G18	12HGA11H111	6306774G39
12HGA11A19	6306774G45	12HGA11A104	6306774G41	12HGA11F1R	6306774G1	12HGA11H114	6306774G37
12HGA11A20	6306774G55	12HGA11A105	6306774G42	12HGA11F2R	6306774G3	12HGA11H115	6306774G37
12HGA11A21	6306774G42	12HGA11A106	6306774G33	12HGA11F3R	6306774G7	12HGA11H117	6306774G37
12HGA11A22	6306774G55	12HGA11A107	6306774G40	12HGA11F4R	6306774G9	12HGA11H118	6306774G35
12HGA11A23	6306774G39	12HGA11A108	6306774G39	12HGA11F5R	6306774G10	12HGA11H119	6306774G33
12HGA11A24	6306774G39	12HGA11A109	6306774G39	12HGA11F6R	6306774G13	12HGA11H120	6306774G46
12HGA11A25	6306774G45	12HGA11A110	6306774G39	12HGA11F7R	6306774G15	12HGA11H121	6306774G12
12HGA11A26	6306774G50	12HGA11A111	6306774G39	12HGA11F8R	6306774G16	12HGA11H122	6306774G11
12HGA11A27	6306774G57	12HGA11A114	6306774G37	12HGA11F9R	6306774G17	12HGA11H123	6306774G9
12HGA11A29	6306774G42	12HGA11A115	6306774G37	12HGA11F10R	6306774G18	12HGA11H124	6306774G8
12HGA11A30	6306774G37	12HGA11A117	6306774G37	12HGA11H51	6306774G1	12HGA11H125	6306774G5
12HGA11A31	6306774G35	12HGA11A118	6306774G35	12HGA11H52	6306774G3	12HGA11H126	6306774G4
12HGA11A33	6306774G37	12HGA11A119	6306774G33	12HGA11H53	6306774G6	12HGA11H127	6306774G2
12HGA11A35	6306774G33	12HGA11A120	6306774G46	12HGA11H54	6306774G7	12HGA11H128	6306774G15
12HGA11A38	6306774G52	12HGA11A121	6306774G12	12HGA11H55	6306774G9	12HGA11H133	6306774G24
12HGA11A39	6306774G45	12HGA11A122	6306774G11	12HGA11H56	6306774G10	12HGA11H143	6306774G54
12HGA11A40	6306774G37	12HGA11A123	6306774G9	12HGA11H57	6306774G13	12HGA11H144	6306774G11
12HGA11A41	6306774G40	12HGA11A124	6306774G8	12HGA11H58	6306774G15	12HGA11H145	6306774G51
12HGA11A51	6306774G1	12HGA11A125	6306774G5	12HGA11H59	6306774G2	12HGA11H146	6306774G50
12HGA11A52	6306774G3	12HGA11A126	6306774G4	12HGA11H60	6306774G4	12HGA11H147	6306774G45
12HGA11A53	6306774G6	12HGA11A127	6306774G2	12HGA11H61	6306774G7	12HGA11H148	6306774G77
12HGA11A54	6306774G7	12HGA11A128	6306774G15	12HGA11H62	6306774G7	12HGA11H150	6306774G3
12HGA11A55	6306774G9	12HGA11A133	6306774G24	12HGA11H63	6306774G6	12HGA11H151	6306774G82
12HGA11A56	6306774G10	12HGA11A143	6306774G54	12HGA11H64	6306774G6	12HGA11H152	6306774G30
12HGA11A57	6306774G13	12HGA11A144	6306774G11	12HGA11H65	6306774G16	12HGA11H154	6306774G9
12HGA11A58	6306774G15	12HGA11A145	6306774G51	12HGA11H66	6306774G17	12HGA11H155	6306774G79
12HGA11A59	6306774G2	12HGA11A146	6306774G50	12HGA11H67	6306774G18	12HGA11H156	6306774G83
12HGA11A60	6306774G4	12HGA11A147	6306774G45	12HGA11H68	6306774G19	12HGA11H157	6306774G21
12HGA11A61	6306774G7	12HGA11A148	6306774G77	12HGA11H69	6306774G20	12HGA11J51	6306774G1
12HGA11A62	6306774G7	12HGA11A150	6306774G3	12HGA11H70	6306774G47	12HGA11J52	6306774G3
12HGA11A63	6306774G6	12HGA11A151	6306774G82	12HGA11H71	6306774G41	12HGA11J53	6306774G6
12HGA11A64	6306774G6	12HGA11A152	6306774G30	12HGA11H72	6306774G37	12HGA11J54	6306774G7
12HGA11A65	6306774G16	12HGA11A154	6306774G9	12HGA11H73	6306774G35	12HGA11J55	6306774G9
12HGA11A66	6306774G17	12HGA11A155	6306774G79	12HGA11H74	6306774G46	12HGA11J56	6306774G10
12HGA11A67	6306774G18	12HGA11A156	6306774G83	12HGA11H75	6306774G39	12HGA11J57	6306774G13
12HGA11A68	6306774G19	12HGA11A157	6306774G21	12HGA11H76	6306774G36	12HGA11J58	6306774G15
12HGA11A69	6306774G20	12HGA11B1	6306774G1	12HGA11H77	6306774G34	12HGA11J59	6306774G2
12HGA11A70	6306774G47	12HGA11B2	6306774G3	12HGA11H78	6306774G41	12HGA11J60	6306774G4
12HGA11A71	6306774G41	12HGA11B3	6306774G7	12HGA11H79	6306774G36	12HGA11J61	6306774G7
12HGA11A72	6306774G37	12HGA11B4	6306774G9	12HGA11H80	6306774G32	12HGA11J62	6306774G7
12HGA11A73	6306774G35	12HGA11B5	6306774G10	12HGA11H81	6306774G31	12HGA11J63	6306774G6
12HGA11A74	6306774G46	12HGA11B6	6306774G13	12HGA11H82	6306774G58	12HGA11J64	6306774G6
12HGA11A75	6306774G39	12HGA11B7	6306774G15	12HGA11H83	6306774G57	12HGA11J65	6306774G16
12HGA11A76	6306774G36	12HGA11B8	6306774G16	12HGA11H84	6306774G55	12HGA11J66	6306774G17
12HGA11A77	6306774G34	12HGA11B9	6306774G17	12HGA11H85	6306774G54	12HGA11J67	6306774G18
12HGA11A78	6306774G41	12HGA11B10	6306774G18	12HGA11H86	6306774G56	12HGA11J68	6306774G19
12HGA11A79	6306774G36	12HGA11B11	6306774G19	12HGA11H87	6306774G55	12HGA11J69	6306774G20
12HGA11A80	6306774G32	12HGA11B12	6306774G20	12HGA11H88	6306774G52	12HGA11J70	6306774G47
12HGA11A81	6306774G31			12HGA11H89	6306774G51	12HGA11J71	6306774G41

TYPE HGA AUXILIARY RELAYS

TABLE H - OPERATING COILS  
SINGLE-UNIT RELAYS (ONE COIL REQUIRED)  
(OR) THREE-UNIT RELAYS (THREE COILS REQUIRED PER COMPLETE RELAY)

RELAY MODEL No.	COIL CAT. No.	RELAY MODEL No.	COIL CAT. No.	RELAY MODEL No.	COIL CAT. No.	RELAY MODEL No.	COIL CAT. No.
12HGA11J72	6306774G37	12HGA11K54	6306774G7	12HGA11K128	6306774G15	12HGA12B11	6128666G19
12HGA11J73	6306774G35	12HGA11K55	6306774G9	12HGA11K133	6306774G24	12HGA12B12	6128666G20
12HGA11J74	6306774G46	12HGA11K56	6306774G10	12HGA11K143	6306774G54	12HGA12B13	6128666G7
12HGA11J75	6306774G39	12HGA11K57	6306774G13	12HGA11K144	6306774G11	12HGA12B14	6128666G25
12HGA11J76	6306774G36	12HGA11K58	6306774G15	12HGA11K145	6306774G51	12HGA12B15	6128666G31
12HGA11J77	6306774G34	12HGA11K59	6306774G2	12HGA11K146	6306774G50	12HGA12B16	6128666G32
12HGA11J78	6306774G41	12HGA11K60	6306774G4	12HGA11K147	6306774G45	12HGA12B17	6128666G34
12HGA11J79	6306774G36	12HGA11K61	6306774G7	12HGA11K148	6306774G47	12HGA12B18	6128666G36
12HGA11J80	6306774G32	12HGA11K62	6306774G6	12HGA11K150	6306774G3	12HGA12B19	6128666G38
12HGA11J81	6306774G31	12HGA11K63	6306774G6	12HGA11K151	6306774G82	12HGA12C1	6128666G13
12HGA11J82	6306774G58	12HGA11K64	6306774G6	12HGA11K152	6306774G30	12HGA12C2	6128666G10
12HGA11J83	6306774G57	12HGA11K65	6306774G16	12HGA11K154	6306774G9	12HGA12C3	6128666G8
12HGA11J84	6306774G55	12HGA11K66	6306774G17	12HGA11K155	6306774G79	12HGA12C4	6128666G30
12HGA11J85	6306774G54	12HGA11K67	6306774G18	12HGA11K156	6306774G83	12HGA12C5	6128666G28
12HGA11J86	6306774G56	12HGA11K68	6306774G19	12HGA11K157	6306774G21	12HGA12C6	6128666G9
12HGA11J87	6306774G55	12HGA11K69	6306774G20	12HGA11L1	6306774G7	12HGA12C7	6128666G7
12HGA11J88	6306774G52	12HGA11K70	6306774G47	12HGA11L2	6306774G3	12HGA12C8	6128666G3
12HGA11J89	6306774G51	12HGA11K71	6306774G41	12HGA11L3	6306774G1	12HGA12C9	6128666G10
12HGA11J90	6306774G50	12HGA11K72	6306774G37	12HGA11L4	6306774G47	12HGA12C10	6128666G8
12HGA11J91	6306774G50	12HGA11K73	6306774G35	12HGA11L5	6306774G41	12HGA12C11	6128666G2
12HGA11J94	6306774G42	12HGA11K74	6306774G46	12HGA11L6	6306774G37	12HGA12C12	6128666G29
12HGA11J95	6306774G78	12HGA11K75	6306774G39	12HGA11M1	6306774G47	12HGA12C13	6128666G14
12HGA11J96	6306774G53	12HGA11K76	6306774G36	12HGA11M2	6306774G41	12HGA12C14	6128666G40
12HGA11J97	6306774G45	12HGA11K77	6306774G34	12HGA11M3	6306774G55	12HGA12C15	6128666G26
12HGA11J98	6306774G46	12HGA11K78	6306774G41	12HGA11R1A	6306774G10	12HGA12C16	6128666G27
12HGA11J99	6306774G45	12HGA11K79	6306774G36	12HGA11R2A	6306774G7	12HGA12C18	6128666G12
12HGA11J101	6306774G45	12HGA11K80	6306774G32	12HGA11R3A	6306774G6	12HGA12C20	6128666G32
12HGA11J102	6306774G42	12HGA11K81	6306774G31	12HGA11R4A	6306774G3	12HGA12D1	6128666G29
12HGA11J104	6306774G41	12HGA11K82	6306774G58	12HGA11R5A	6306774G1	12HGA12D2	6128666G30
12HGA11J105	6306774G42	12HGA11K83	6306774G57	12HGA11R6A	6306774G47	12HGA12D3	6128666G10
12HGA11J106	6306774G33	12HGA11K84	6306774G55	12HGA11R7A	6306774G46	12HGA12D4	6128666G11
12HGA11J107	6306774G40	12HGA11K85	6306774G54	12HGA11R8A	6306774G41	12HGA12D5	6128666G13
12HGA11J108	6306774G39	12HGA11K86	6306774G56	12HGA11R9A	6306774G41	12HGA12D6	6128666G14
12HGA11J109	6306774G39	12HGA11K87	6306774G55	12HGA11R10A	6306774G39	12HGA12D7	6128666G15
12HGA11J110	6306774G39	12HGA11K88	6306774G52	12HGA11R11A	6306774G36	12HGA12D8	6128666G16
12HGA11J111	6306774G37	12HGA11K89	6306774G51	12HGA11R12A	6306774G18	12HGA12D9	6128666G17
12HGA11J114	6306774G37	12HGA11K90	6306774G50	12HGA11R13A	6306774G37	12HGA12D10	6128666G18
12HGA11J115	6306774G37	12HGA11K91	6306774G50	12HGA12A1	6128666G13	12HGA12D11	6128666G19
12HGA11J117	6306774G37	12HGA11K94	6306774G42	12HGA12A2	6128666G10	12HGA12D12	6128666G20
12HGA11J118	6306774G35	12HGA11K95	6306774G78	12HGA12A3	6128666G8	12HGA12D13	6128666G7
12HGA11J119	6306774G33	12HGA11K96	6306774G53	12HGA12A4	6128666G30	12HGA12D14	6128666G25
12HGA11J120	6306774G46	12HGA11K97	6306774G45	12HGA12A5	6128666G28	12HGA12D15	6128666G31
12HGA11J121	6306774G12	12HGA11K98	6306774G46	12HGA12A6	6128666G9	12HGA12D16	6128666G32
12HGA11J122	6306774G11	12HGA11K99	6306774G45	12HGA12A7	6128666G7	12HGA12E1	6128666G13
12HGA11J123	6306774G9	12HGA11K101	6306774G45	12HGA12A8	6128666G3	12HGA12E2	6128666G10
12HGA11J124	6306774G8	12HGA11K102	6306774G42	12HGA12A9	6128666G10	12HGA12E3	6128666G8
12HGA11J125	6306774G5	12HGA11K104	6306774G41	12HGA12A10	6128666G8	12HGA12E4	6128666G30
12HGA11J126	6306774G4	12HGA11K105	6306774G42	12HGA12A11	6128666G2	12HGA12E5	6128666G28
12HGA11J127	6306774G2	12HGA11K106	6306774G33	12HGA12A12	6128666G29	12HGA12E6	6128666G9
12HGA11J128	6306774G15	12HGA11K107	6306774G40	12HGA12A13	6128666G14	12HGA12E7	6128666G7
12HGA11J133	6306774G24	12HGA11K108	6306774G39	12HGA12A14	6128666G40	12HGA12E8	6128666G3
12HGA11J143	6306774G54	12HGA11K109	6306774G39	12HGA12A15	6128666G26	12HGA12E9	6128666G10
12HGA11J144	6306774G11	12HGA11K110	6306774G39	12HGA12A16	6128666G27	12HGA12E10	6128666G8
12HGA11J145	6306774G51	12HGA11K111	6306774G39	12HGA12A17	6128666G40	12HGA12E11	6128666G2
12HGA11J146	6306774G50	12HGA11K114	6306774G37	12HGA12A18	6128666G12	12HGA12E12	6128666G29
12HGA11J147	6306774G45	12HGA11K115	6306774G37	12HGA12A19	6128666G14	12HGA12E13	6128666G14
12HGA11J148	6306774G77	12HGA11K117	6306774G37	12HGA12A20	6128666G32	12HGA12E14	6128666G40
12HGA11J150	6306774G3	12HGA11K118	6306774G35	12HGA12B1	6128666G29	12HGA12E15	6128666G26
12HGA11J151	6306774G82	12HGA11K119	6306774G33	12HGA12B2	6128666G30	12HGA12E16	6128666G27
12HGA11J152	6306774G30	12HGA11K120	6306774G46	12HGA12B3	6128666G10	12HGA12F1	6128666G29
12HGA11J154	6306774G9	12HGA11K121	6306774G26	12HGA12B4	6128666G11	12HGA12F2	6128666G30
12HGA11J155	6306774G79	12HGA11K122	6306774G11	12HGA12B5	6128666G13	12HGA12F3	6128666G10
12HGA11J156	6306774G83	12HGA11K123	6306774G9	12HGA12B6	6128666G14	12HGA12F4	6128666G11
12HGA11J157	6306774G21	12HGA11K124	6306774G8	12HGA12B7	6128666G15	12HGA12F5	6128666G13
12HGA11K51	6306774G1	12HGA11K125	6306774G5	12HGA12B8	6128666G16	12HGA12F6	6128666G14
12HGA11K52	6306774G3	12HGA11K126	6306774G4	12HGA12B9	6128666G17	12HGA12F7	6128666G15
12HGA11K53	6306774G6	12HGA11K127	6306774G2	12HGA12B10	6128666G18	12HGA12F8	6128666G16



# TYPE HGA AUXILIARY RELAYS

GEF-2623E

**TABLE H — OPERATING COILS**  
 SINGLE-UNIT RELAYS (ONE COIL REQUIRED)  
 (OR) THREE-UNIT RELAYS (THREE COILS REQUIRED PER COMPLETE RELAY)

RELAY MODEL No.	COIL CAT. No.	RELAY MODEL No.	COIL CAT. No.	RELAY MODEL No.	COIL CAT. No.	RELAY MODEL No.	COIL CAT. No.
12HGA12F9	6128666G17	12HGA14A19	6306774G5	12HGA14A92	6306774G46	12HGA14B5	6306774G6
12HGA12F10	6128666G18	12HGA14A20	6306774G8	12HGA14A93	6306774G8	12HGA14B6	6306774G3
12HGA12F11	6128666G19	12HGA14A21	6306774G39	12HGA14A94	6306774G42	12HGA14B7	6306774G17
12HGA12F12	6128666G20	12HGA14A22	6306774G16	12HGA14A95	6306774G78	12HGA14B8	6306774G13
12HGA12F13	6128666G7	12HGA14A23	6306774G65	12HGA14A96	6306774G53	12HGA14B9	6306774G11
12HGA12F14	6128666G25	12HGA14A24	6306774G53	12HGA14A97	6306774G45	12HGA14B10	6306774G13
12HGA12F15	6128666G35	12HGA14A25	6306774G12	12HGA14A98	6306774G46	12HGA14B11	6306774G9
12HGA12F16	6128666G32	12HGA14A26	6306774G51	12HGA14A99	6306774G45	12HGA14B12	6306774G10
12HGA13A1	6128666G10	12HGA14A27	6306774G22	12HGA14A100	6306774G46	12HGA14B13	6306774G22
12HGA13A2	6128666G8	12HGA14A28	6306774G24	12HGA14A101	6306774G45	12HGA14B14	6306774G7
12HGA13A3	6128666G9	12HGA14A29	6306774G42	12HGA14A102	6306774G42	12HGA14B15	6306774G1
12HGA13A4	6128666G8	12HGA14A30	6306774G39	12HGA14A103	6306774G38	12HGA14D1	6306774G66
12HGA13A6	6128666G11	12HGA14A31	6306774G13	12HGA14A104	6306774G41	12HGA14D2	6306774G1
12HGA13A7	6128666G8	12HGA14A32	6306774G37	12HGA14A105	6306774G42	12HGA14D3	6306774G3
12HGA13A8	6128666G29	12HGA14A33	6306774G20	12HGA14A106	6306774G33	12HGA14D4	6306774G1
12HGA13A9	6128666G10	12HGA14A34	6306774G53	12HGA14A107	6306774G40	12HGA14D5	6306774G1
12HGA13A10	6128666G32	12HGA14A35	6306774G46	12HGA14A108	6306774G39	12HGA14D6	6306774G1
12HGA13A11	6128666G10	12HGA14A36	6306774G59	12HGA14A109	6306774G39	12HGA14J1	6306774G47
12HGA13A12	6128666G11	12HGA14A37	6306774G26	12HGA14A110	6306774G39	12HGA14J2	6306774G41
12HGA13A13	6128666G9	12HGA14A38	6306774G23	12HGA14A111	6306774G39	12HGA14K1	6306774G1
12HGA13A14	6128666G10	12HGA14A39	6306774G74	12HGA14A113	6306774G39	12HGA14K2	6306774G3
12HGA13A15	6306774G45	12HGA14A40	6306774G25	12HGA14A114	6306774G37	12HGA14K3	6306774G7
12HGA13A16	6306774G38	12HGA14A41	6306774G24	12HGA14A115	6306774G37	12HGA14K4	6306774G9
12HGA13A17	6306774G42	12HGA14A42	6306774G32	12HGA14A116	6306774G37	12HGA14K5	6306774G10
12HGA13A18	6306774G40	12HGA14A43	6306774G30	12HGA14A117	6306774G37	12HGA14K6	6306774G13
12HGA13A19	6306774G45	12HGA14A44	6306774G17	12HGA14A118	6306774G35	12HGA14K7	6306774G15
12HGA13A20	6306774G45	12HGA14A51	6306774G1	12HGA14A119	6306774G33	12HGA14K8	6306774G16
12HGA13A21	6306774G18	12HGA14A52	6306774G3	12HGA14A120	6306774G46	12HGA14K9	6306774G7
12HGA13A22	6306774G17	12HGA14A53	6306774G6	12HGA14A121	6306774G12	12HGA14K10	6306774G18
12HGA13A23	6306774G20	12HGA14A54	6306774G7	12HGA14A122	6306774G11	12HGA14L2A	6306774G3
12HGA13A24	6306774G8	12HGA14A55	6306774G9	12HGA14A123	6306774G9	12HGA14L4A	6306774G3
12HGA13A25	6306774G7	12HGA14A56	6306774G10	12HGA14A124	6306774G8	12HGA14M1	6306774G11
12HGA13A26	6306774G5	12HGA14A57	6306774G13	12HGA14A125	6306774G5	12HGA14M2	6306774G8
12HGA13A27	6306774G3	12HGA14A58	6306774G15	12HGA14A126	6306774G4	12HGA14M3	6306774G4
12HGA13A28	6306774G2	12HGA14A59	6306774G2	12HGA14A127	6306774G2	12HGA14M4	6306774G2
12HGA13A29	6306774G63	12HGA14A60	6306774G4	12HGA14A128	6306774G15	12HGA14M10	6306774G9
12HGA13A30	6306774G62	12HGA14A61	6306774G7	12HGA14A129	6306774G7	12HGA14N1	6306774G7
12HGA13A31	6306774G27	12HGA14A62	6306774G7	12HGA14A130	6306774G10	12HGA14N10	6306774G41
12HGA13A32	6306774G63	12HGA14A63	6306774G6	12HGA14A131	6306774G65	12HGA14R1	6306774G3
12HGA13A33	6306774G62	12HGA14A64	6306774G6	12HGA14A132	6306774G16	12HGA14S1A	6306774G3
12HGA13A34	6306774G39	12HGA14A65	6306774G16	12HGA14A133	6306774G24	12HGA14S2A	6306774G1
12HGA13A35	6306774G21	12HGA14A66	6306774G17	12HGA14A134	6306774G24	12HGA14S3A	6306774G1
12HGA13B1	6128666G29	12HGA14A67	6306774G18	12HGA14A135	6306774G53	12HGA14S4A	6306774G1
12HGA13B2	6128666G11	12HGA14A68	6306774G19	12HGA14A136	6306774G74	12HGA14S5A	6306774G1
12HGA13B3	6128666G30	12HGA14A69	6306774G20	12HGA14A137	6306774G25	12HGA14S6A	6306774G66
12HGA13B4	6128666G29	12HGA14A70	6306774G47	12HGA14A138	6306774G23	12HGA14S11A	6306774G1
12HGA13B5	6306774G3	12HGA14A71	6306774G41	12HGA14A139	6306774G26	12HGA14S12A	6306774G3
12HGA13B6	6306774G1	12HGA14A72	6306774G37	12HGA14A140	6306774G30	12HGA14S13A	6306774G1
12HGA13B7	6128666G15	12HGA14A73	6306774G35	12HGA14A141	6306774G53	12HGA14S14A	6306774G1
12HGA14A1	6306774G10	12HGA14A74	6306774G46	12HGA14A142	6306774G52	12HGA14S15A	6306774G1
12HGA14A2	6306774G18	12HGA14A75	6306774G39	12HGA14A143	6306774G54	12HGA14S16A	6306774G66
12HGA14A3	6306774G20	12HGA14A76	6306774G36	12HGA14A144	6306774G11	12HGA14V2	6306774G39
12HGA14A4	6306774G9	12HGA14A77	6306774G34	12HGA14A145	6306774G51	12HGA14W1	6306774G42
12HGA14A5	6306774G1	12HGA14A78	6306774G41	12HGA14A146	6306774G50	12HGA14W2	6306774G64
12HGA14A6	6306774G41	12HGA14A79	6306774G36	12HGA14A147	6306774G45	12HGA14X1	6306774G46
12HGA14A7	6306774G3	12HGA14A80	6306774G32	12HGA14A148	6306774G77	12HGA14X2	6306774G39
12HGA14A8	6306774G15	12HGA14A81	6306774G31	12HGA14A149	6306774G3	12HGA14AC1A	6306774G2
12HGA14A9	6306774G7	12HGA14A82	6306774G58	12HGA14A150	6306774G3	12HGA14AC2A	6306774G1
12HGA14A10	6306774G47	12HGA14A83	6306774G57	12HGA14A151	6306774G82	12HGA14AC3A	6306774G1
12HGA14A11	6306774G56	12HGA14A84	6306774G55	12HGA14A152	6306774G30	12HGA14AD51	6306774G1
12HGA14A12	6306774G46	12HGA14A85	6306774G54	12HGA14A153	6306774G16	12HGA14AD52	6306774G3
12HGA14A13	6306774G19	12HGA14A86	6306774G56	12HGA14A154	6306774G9	12HGA14AD53	6306774G6
12HGA14A14	6306774G11	12HGA14A87	6306774G55	12HGA14A155	6306774G79	12HGA14AD54	6306774G7
12HGA14A15	6306774G3	12HGA14A88	6306774G52	12HGA14B1	6128666G13	12HGA14AD55	6306774G9
12HGA14A16	6306774G51	12HGA14A89	6306774G51	12HGA14B2	6128666G10	12HGA14AD56	6306774G10
12HGA14A17	6306774G49	12HGA14A90	6306774G50	12HGA14B3	6128666G17	12HGA14AD57	6306774G13
12HGA14A18	6306774G54	12HGA14A91	6306774G50	12HGA14B4	6128666G14	12HGA14AD58	6306774G15

## TYPE HGA AUXILIARY RELAYS

**TABLE H — OPERATING COILS**  
 SINGLE-UNIT RELAYS (ONE COIL REQUIRED)  
 (OR) THREE-UNIT RELAYS (THREE COILS REQUIRED PER COMPLETE RELAY)

RELAY MODEL NO.	COIL CAT. NO.	RELAY MODEL NO.	COIL CAT. NO.	RELAY MODEL NO.	COIL CAT. NO.	RELAY MODEL NO.	COIL CAT. NO.
12HGA14AD59	6306774G2	12HGA14AD127	6306774G2	12HGA14AE89	6306774G51	12HGA14AF52	6306774G3
12HGA14AD60	6306774G4	12HGA14AD128	6306774G15	12HGA14AE90	6306774G50	12HGA14AF53	6306774G6
12HGA14AD61	6306774G7	12HGA14AD129	6306774G7	12HGA14AE91	6306774G50	12HGA14AF54	6306774G7
12HGA14AD62	6306774G7	12HGA14AD130	6306774G10	12HGA14AE92	6306774G46	12HGA14AF55	6306774G9
12HGA14AD63	6306774G6	12HGA14AD131	6306774G65	12HGA14AE93	6306774G8	12HGA14AF56	6306774G10
12HGA14AD64	6306774G6	12HGA14AD132	6306774G16	12HGA14AE94	6306774G42	12HGA14AF57	6306774G13
12HGA14AD65	6306774G16	12HGA14AD133	6306774G24	12HGA14AE95	6306774G78	12HGA14AF58	6306774G15
12HGA14AD66	6306774G17	12HGA14AD134	6306774G24	12HGA14AE96	6306774G53	12HGA14AF59	6306774G2
12HGA14AD67	6306774G18	12HGA14AD135	6306774G53	12HGA14AE97	6306774G45	12HGA14AF60	6306774G4
12HGA14AD68	6306774G19	12HGA14AD136	6306774G74	12HGA14AE98	6306774G46	12HGA14AF61	6306774G7
12HGA14AD69	6306774G20	12HGA14AD137	6306774G25	12HGA14AE99	6306774G45	12HGA14AF62	6306774G7
12HGA14AD70	6306774G47	12HGA14AD138	6306774G23	12HGA14AE100	6306774G46	12HGA14AF63	6306774G6
12HGA14AD71	6306774G41	12HGA14AD139	6306774G26	12HGA14AE101	6306774G45	12HGA14AF64	6306774G6
12HGA14AD72	6306774G37	12HGA14AD140	6306774G30	12HGA14AE102	6306774G42	12HGA14AF65	6306774G16
12HGA14AD73	6306774G35	12HGA14AD141	6306774G53	12HGA14AE103	6306774G38	12HGA14AF66	6306774G17
12HGA14AD74	6306774G46	12HGA14AD142	6306774G42	12HGA14AE104	6306774G41	12HGA14AF67	6306774G18
12HGA14AD75	6306774G39	12HGA14AD143	6306774G54	12HGA14AE105	6306774G42	12HGA14AF68	6306774G19
12HGA14AD76	6306774G36	12HGA14AD144	6306774G11	12HGA14AE106	6306774G33	12HGA14AF69	6306774G20
12HGA14AD77	6306774G34	12HGA14AD145	6306774G51	12HGA14AE107	6306774G40	12HGA14AF70	6306774G47
12HGA14AD78	6306774G41	12HGA14AD146	6306774G50	12HGA14AE108	6306774G39	12HGA14AF71	6306774G41
12HGA14AD79	6306774G36	12HGA14AD147	6306774G45	12HGA14AE109	6306774G39	12HGA14AF72	6306774G37
12HGA14AD80	6306774G32	12HGA14AD148	6306774G77	12HGA14AE110	6306774G39	12HGA14AF73	6306774G35
12HGA14AD81	6306774G31	12HGA14AD149	6306774G3	12HGA14AE111	6306774G39	12HGA14AF74	6306774G46
12HGA14AD82	6306774G58	12HGA14AD150	6306774G3	12HGA14AE113	6306774G39	12HGA14AF75	6306774G39
12HGA14AD83	6306774G57	12HGA14AD151	6306774G82	12HGA14AE114	6306774G37	12HGA14AF76	6306774G36
12HGA14AD84	6306774G55	12HGA14AD152	6306774G30	12HGA14AE115	6306774G37	12HGA14AF77	6306774G34
12HGA14AD85	6306774G54	12HGA14AD153	6306774G16	12HGA14AE116	6306774G37	12HGA14AF78	6306774G41
12HGA14AD86	6306774G56	12HGA14AD154	6306774G9	12HGA14AE117	6306774G37	12HGA14AF79	6306774G36
12HGA14AD87	6306774G55	12HGA14AD155	6306774G79	12HGA14AE118	6306774G35	12HGA14AF80	6306774G32
12HGA14AD88	6306774G52	12HGA14AE51	6306774G1	12HGA14AE119	6306774G33	12HGA14AF81	6306774G31
12HGA14AD89	6306774G51	12HGA14AE52	6306774G3	12HGA14AE120	6306774G46	12HGA14AF82	6306774G58
12HGA14AD90	6306774G50	12HGA14AE53	6306774G6	12HGA14AE121	6306774G12	12HGA14AF83	6306774G57
12HGA14AD91	6306774G50	12HGA14AE54	6306774G7	12HGA14AE122	6306774G11	12HGA14AF84	6306774G55
12HGA14AD92	6306774G46	12HGA14AE55	6306774G9	12HGA14AE123	6306774G9	12HGA14AF85	6306774G54
12HGA14AD93	6306774G8	12HGA14AE56	6306774G10	12HGA14AE124	6306774G8	12HGA14AF86	6306774G56
12HGA14AD94	6306774G42	12HGA14AE57	6306774G13	12HGA14AE125	6306774G5	12HGA14AF87	6306774G55
12HGA14AD95	6306774G78	12HGA14AE58	6306774G15	12HGA14AE126	6306774G4	12HGA14AF88	6306774G52
12HGA14AD96	6306774G53	12HGA14AE59	6306774G2	12HGA14AE127	6306774G2	12HGA14AF89	6306774G51
12HGA14AD97	6306774G45	12HGA14AE60	6306774G4	12HGA14AE128	6306774G15	12HGA14AF90	6306774G50
12HGA14AD98	6306774G46	12HGA14AE61	6306774G7	12HGA14AE129	6306774G7	12HGA14AF91	6306774G50
12HGA14AD99	6306774G45	12HGA14AE62	6306774G7	12HGA14AE130	6306774G10	12HGA14AF92	6306774G46
12HGA14AD100	6306774G46	12HGA14AE63	6306774G6	12HGA14AE131	6306774G65	12HGA14AF93	6306774G8
12HGA14AD101	6306774G45	12HGA14AE64	6306774G6	12HGA14AE132	6306774G16	12HGA14AF94	6306774G42
12HGA14AD102	6306774G42	12HGA14AE65	6306774G16	12HGA14AE133	6306774G24	12HGA14AF95	6306774G78
12HGA14AD103	6306774G38	12HGA14AE66	6306774G17	12HGA14AE134	6306774G24	12HGA14AF96	6306774G53
12HGA14AD104	6306774G41	12HGA14AE67	6306774G18	12HGA14AE135	6306774G53	12HGA14AF97	6306774G45
12HGA14AD105	6306774G42	12HGA14AE68	6306774G19	12HGA14AE136	6306774G74	12HGA14AF98	6306774G46
12HGA14AD106	6306774G33	12HGA14AE69	6306774G20	12HGA14AE137	6306774G25	12HGA14AF99	6306774G45
12HGA14AD107	6306774G40	12HGA14AE70	6306774G47	12HGA14AE138	6306774G23	12HGA14AF100	6306774G46
12HGA14AD108	6306774G39	12HGA14AE71	6306774G41	12HGA14AE139	6306774G26	12HGA14AF101	6306774G45
12HGA14AD109	6306774G39	12HGA14AE72	6306774G37	12HGA14AE140	6306774G30	12HGA14AF102	6306774G42
12HGA14AD110	6306774G39	12HGA14AE73	6306774G35	12HGA14AE141	6306774G53	12HGA14AF103	6306774G38
12HGA14AD111	6306774G39	12HGA14AE74	6306774G46	12HGA14AE142	6306774G42	12HGA14AF104	6306774G41
12HGA14AD113	6306774G39	12HGA14AE75	6306774G39	12HGA14AE143	6306774G54	12HGA14AF105	6306774G42
12HGA14AD114	6306774G37	12HGA14AE76	6306774G36	12HGA14AE144	6306774G11	12HGA14AF106	6306774G33
12HGA14AD115	6306774G37	12HGA14AE77	6306774G34	12HGA14AE145	6306774G51	12HGA14AF107	6306774G40
12HGA14AD116	6306774G37	12HGA14AE78	6306774G41	12HGA14AE146	6306774G50	12HGA14AF108	6306774G39
12HGA14AD117	6306774G37	12HGA14AE79	6306774G36	12HGA14AE147	6306774G45	12HGA14AF109	6306774G39
12HGA14AD118	6306774G35	12HGA14AE80	6306774G32	12HGA14AE148	6306774G77	12HGA14AF110	6306774G39
12HGA14AD119	6306774G33	12HGA14AE81	6306774G31	12HGA14AE149	6306774G3	12HGA14AF111	6306774G39
12HGA14AD120	6306774G46	12HGA14AE82	6306774G58	12HGA14AE150	6306774G3	12HGA14AF113	6306774G39
12HGA14AD121	6306774G12	12HGA14AE83	6306774G57	12HGA14AE151	6306774G82	12HGA14AF114	6306774G37
12HGA14AD122	6306774G11	12HGA14AE84	6306774G55	12HGA14AE152	6306774G30	12HGA14AF115	6306774G37
12HGA14AD123	6306774G9	12HGA14AE85	6306774G54	12HGA14AE153	6306774G16	12HGA14AF116	6306774G37
12HGA14AD124	6306774G8	12HGA14AE86	6306774G56	12HGA14AE154	6306774G9	12HGA14AF117	6306774G37
12HGA14AD125	6306774G5	12HGA14AE87	6306774G55	12HGA14AE155	6306774G79	12HGA14AF118	6306774G35
12HGA14AD126	6306774G4	12HGA14AE88	6306774G52	12HGA14AF51	6306774G1	12HGA14AF119	6306774G33



# TYPE HGA AUXILIARY RELAYS

GEF-2623E

**TABLE H — OPERATING COILS**  
**SINGLE-UNIT RELAYS (ONE COIL REQUIRED)**  
**(OR) THREE-UNIT RELAYS (THREE COILS REQUIRED PER COMPLETE RELAY)**

RELAY MODEL NO.	COIL CAT. NO.	RELAY MODEL NO.	COIL CAT. NO.	RELAY MODEL NO.	COIL CAT. NO.	RELAY MODEL NO.	COIL CAT. NO.
12HGA14AF120	6306774G46	12HGA14AL19	6306774G15	12HGA15H2	6306774G3	12HGA15J55	6306774G55
12HGA14AF121	6306774G12	12HGA14AL20	6306774G16	12HGA15H3	6306774G7	12HGA15J56	6306774G77
12HGA14AF122	6306774G11	12HGA14AL21	6306774G19	12HGA15H4	6306774G9	12HGA15J57	6306774G78
12HGA14AF123	6306774G9	12HGA14AL22	6306774G19	12HGA15H5	6306774G10	12HGA15K1	6306774G1
12HGA14AF124	6306774G8	12HGA14AM1	6306774G65	12HGA15H6	6306774G13	12HGA15K2	6306774G3
12HGA14AF125	6306774G5	12HGA14AM2	6306774G15	12HGA15H7	6306774G15	12HGA15K3	6306774G7
12HGA14AF126	6306774G4	12HGA14AM3	6306774G16	12HGA15H8	6306774G16	12HGA15K4	6306774G9
12HGA14AF127	6306774G2	12HGA14AM5	6306774G17	12HGA15H9	6306774G17	12HGA15K5	6306774G10
12HGA14AF128	6306774G15	12HGA14AM6	6306774G13	12HGA15H10	6306774G18	12HGA15K6	6306774G13
12HGA14AF129	6306774G7	12HGA14AM7	6306774G65	12HGA15H11	6306774G19	12HGA15K7	6306774G15
12HGA14AF130	6306774G10	12HGA14AM9	6306774G16	12HGA15H12	6306774G20	12HGA15K8	6306774G16
12HGA14AF131	6306774G65	12HGA14AM10	6306774G17	12HGA15H13	6306774G4	12HGA15K9	6306774G17
12HGA14AF132	6306774G16	12HGA14AM11	6306774G12	12HGA15H14	6306774G11	12HGA15K10	6306774G18
12HGA14AF133	6306774G24	12HGA14AM12	6306774G65	12HGA15H15	6306774G8	12HGA15K11	6306774G19
12HGA14AF134	6306774G24	12HGA14AM13	6306774G15	12HGA15H16	6306774G6	12HGA15K12	6306774G20
12HGA14AF135	6306774G53	12HGA14AM15	6306774G16	12HGA15H17	6306774G11	12HGA15K13	6306774G4
12HGA14AF136	6306774G74	12HGA14AM16	6306774G10	12HGA15H18	6306774G12	12HGA15K14	6306774G11
12HGA14AF137	6306774G25	12HGA14AM17	6306774G12	12HGA15H19	6306774G9	12HGA15K15	6306774G8
12HGA14AF138	6306774G23	12HGA14AM18	6306774G14	12HGA15J1	6306774G47	12HGA15K16	6306774G6
12HGA14AF139	6306774G26	12HGA14AM19	6306774G15	12HGA15J2	6306774G41	12HGA15K17	6306774G11
12HGA14AF140	6306774G30	12HGA14AM20	6306774G16	12HGA15J3	6306774G37	12HGA15K19	6306774G2
12HGA14AF141	6306774G53	12HGA14AM21	6306774G19	12HGA15J4	6306774G35	12HGA15K20	6306774G15
12HGA14AF142	6306774G42	12HGA14AM22	6306774G19	12HGA15J5	6306774G46	12HGA15K21	6306774G1
12HGA14AF143	6306774G54	12HGA14AN1A	6306774G1	12HGA15J6	6306774G39	12HGA15K22	6306774G3
12HGA14AF144	6306774G11	12HGA14AR1A	6306774G2	12HGA15J7	6306774G36	12HGA15K23	6306774G7
12HGA14AF145	6306774G51	12HGA14AS1	6306774G17	12HGA15J8	6306774G34	12HGA15K24	6306774G9
12HGA14AF146	6306774G50	12HGA14AT1	6306774G10	12HGA15J9	6306774G41	12HGA15K25	6306774G10
12HGA14AF147	6306774G45	12HGA14AT2	6306774G7	12HGA15J10	6306774G36	12HGA15K26	6306774G13
12HGA14AF148	6306774G77	12HGA15A1	6128666G14	12HGA15J11	6306774G32	12HGA15K27	6306774G15
12HGA14AF149	6306774G3	12HGA15A2	6128666G13	12HGA15J12	6306774G31	12HGA15K28	6306774G16
12HGA14AF150	6306774G3	12HGA15F1	6306774G47	12HGA15J13	6306774G51	12HGA15K29	6306774G17
12HGA14AF151	6306774G82	12HGA15F2	6306774G41	12HGA15J14	6306774G54	12HGA15K30	6306774G18
12HGA14AF152	6306774G30	12HGA15F3	6306774G37	12HGA15J15	6306774G49	12HGA15K31	6306774G19
12HGA14AF153	6306774G16	12HGA15F4	6306774G35	12HGA15J16	6306774G33	12HGA15K32	6306774G20
12HGA14AF154	6306774G9	12HGA15F5	6306774G46	12HGA15J17	6306774G54	12HGA15K33	6306774G4
12HGA14AF155	6306774G79	12HGA15F6	6306774G39	12HGA15J18	6306774G46	12HGA15K34	6306774G11
12HGA14AH1	6306774G10	12HGA15F7	6306774G36	12HGA15J19	6306774G50	12HGA15K35	6306774G8
12HGA14AH2	6306774G7	12HGA15F8	6306774G34	12HGA15J20	6306774G57	12HGA15K36	6306774G6
12HGA14AH3	6306774G6	12HGA15F9	6306774G41	12HGA15J21	6306774G42	12HGA15K37	6306774G11
12HGA14AH4	6306774G3	12HGA15F10	6306774G36	12HGA15J22	6306774G37	12HGA15K39	6306774G2
12HGA14AH5	6306774G1	12HGA15F11	6306774G32	12HGA15J24	6306774G45	12HGA15K40	6306774G15
12HGA14AH6	6306774G47	12HGA15F12	6306774G31	12HGA15J25	6306774G55	12HGA15L1	6306774G1
12HGA14AH7	6306774G46	12HGA15F13	6306774G56	12HGA15J26	6306774G77	12HGA15L2	6306774G3
12HGA14AH8	6306774G41	12HGA15F14	6306774G54	12HGA15J27	6306774G78	12HGA15L3	6306774G7
12HGA14AH9	6306774G41	12HGA15F15	6306774G53	12HGA15J31	6306774G47	12HGA15L4	6306774G9
12HGA14AH10	6306774G39	12HGA15F16	6306774G33	12HGA15J32	6306774G41	12HGA15L5	6306774G10
12HGA14AH11	6306774G36	12HGA15F17	6306774G54	12HGA15J33	6306774G37	12HGA15L6	6306774G13
12HGA14AH12	6306774G18	12HGA15F18	6306774G46	12HGA15J34	6306774G35	12HGA15L7	6306774G15
12HGA14AH13	6306774G37	12HGA15F19	6306774G45	12HGA15J35	6306774G46	12HGA15L8	6306774G16
12HGA14AJ1	6306774G51	12HGA15F20	6306774G55	12HGA15J36	6306774G39	12HGA15L9	6306774G17
12HGA14AK1A	6306774G1	12HGA15F21	6306774G42	12HGA15J37	6306774G36	12HGA15L10	6306774G18
12HGA14AK2A	6306774G1	12HGA15F22	6306774G55	12HGA15J38	6306774G34	12HGA15L11	6306774G19
12HGA14AL1	6306774G65	12HGA15F23	6306774G39	12HGA15J39	6306774G41	12HGA15L12	6306774G20
12HGA14AL2	6306774G15	12HGA15F24	6306774G39	12HGA15J40	6306774G36	12HGA15L13	6306774G4
12HGA14AL3	6306774G16	12HGA15F25	6306774G45	12HGA15J41	6306774G32	12HGA15L14	6306774G11
12HGA14AL5	6306774G17	12HGA15F26	6306774G50	12HGA15J42	6306774G31	12HGA15L15	6306774G8
12HGA14AL6	6306774G13	12HGA15F27	6306774G57	12HGA15J43	6306774G51	12HGA15L16	6306774G6
12HGA14AL7	6306774G65	12HGA15F28	6306774G42	12HGA15J44	6306774G54	12HGA15L17	6306774G11
12HGA14AL9	6306774G16	12HGA15F29	6306774G39	12HGA15J45	6306774G49	12HGA15M1	6306774G47
12HGA14AL10	6306774G17	12HGA15F30	6306774G16	12HGA15J46	6306774G33	12HGA15M2	6306774G41
12HGA14AL11	6306774G12	12HGA15F31	6306774G52	12HGA15J47	6306774G54	12HGA15M3	6306774G37
12HGA14AL12	6306774G65	12HGA15F32	6306774G37	12HGA15J48	6306774G46	12HGA15M4	6306774G35
12HGA14AL13	6306774G15	12HGA15F33	6306774G58	12HGA15J49	6306774G50	12HGA15M5	6306774G46
12HGA14AL15	6306774G16	12HGA15F34	6306774G41	12HGA15J50	6306774G57	12HGA15M6	6306774G39
12HGA14AL16	6306774G10	12HGA15F35	6306774G39	12HGA15J51	6306774G42	12HGA15M7	6306774G36
12HGA14AL17	6306774G12	12HGA15F36	6306774G37	12HGA15J52	6306774G37	12HGA15M8	6306774G34
12HGA14AL18	6306774G14	12HGA15H1	6306774G1	12HGA15J54	6306774G45	12HGA15M9	6306774G41

**TYPE HGA AUXILIARY RELAYS**

**TABLE H - OPERATING COILS**  
 SINGLE-UNIT RELAYS (ONE COIL REQUIRED)  
 (OR) THREE-UNIT RELAYS (THREE COILS REQUIRED PER COMPLETE RELAY)

RELAY MODEL No.	COIL CAT. No.	RELAY MODEL No.	COIL CAT. No.	RELAY MODEL No.	COIL CAT. No.	RELAY MODEL No.	COIL CAT. No.
12HGA15M10	6306774G36	12HGA15R31	6306774G19	12HGA15T49	6306774G7	12HGA17A9	6306791G6
12HGA15M11	6306774G32	12HGA15R32	6306774G20	12HGA15T50	6306774G47	12HGA17A11	6306791G9
12HGA15M12	6306774G31	12HGA15R33	6306774G4	12HGA15T51	6306774G56	12HGA17A12	6306791G8
12HGA15M13	6306774G56	12HGA15R34	6306774G11	12HGA15T52	6306774G46	12HGA17A51	366A732G1
12HGA15M14	6306774G54	12HGA15R37	6306774G11	12HGA15T53	6306774G19	12HGA17A52	366A732G2
12HGA15M15	6306774G49	12HGA15S1	6306774G1	12HGA15T54	6306774G11	12HGA17A53	366A732G9
12HGA15M16	6306774G33	12HGA15S2	6306774G3	12HGA15T55	6306774G3	12HGA17A54	366A732G3
12HGA15M17	6306774G54	12HGA15S3	6306774G7	12HGA15T56	6306774G51	12HGA17A55	366A732G6
12HGA15M18	6306774G46	12HGA15S4	6306774G9	12HGA15T57	6306774G49	12HGA17A56	366A732G4
12HGA15M19	6306774G45	12HGA15S5	6306774G10	12HGA15T58	6306774G54	12HGA17A57	366A732G5
12HGA15M20	6306774G55	12HGA15S6	6306774G13	12HGA15T59	6306774G5	12HGA17A59	366A732G2
12HGA15M21	6306774G42	12HGA15S7	6306774G15	12HGA15T61	6306774G39	12HGA17A60	366A732G1
12HGA15M22	6306774G55	12HGA15S8	6306774G16	12HGA15T62	6306774G16	12HGA17A61	366A732G8
12HGA15M23	6306774G39	12HGA15S9	6306774G17	12HGA15T63	6306774G65	12HGA17A62	366A732G10
12HGA15M24	6306774G39	12HGA15S10	6306774G18	12HGA15T64	6306774G7	12HGA17A63	366A732G7
12HGA15M25	6306774G45	12HGA15S11	6306774G1	12HGA15T65	6306774G10	12HGA17A64	366A732G7
12HGA15M26	6306774G50	12HGA15S12	6306774G3	12HGA15T66	6306774G40	12HGA17A65	366A732G12
12HGA15M27	6306774G57	12HGA15S13	6306774G7	12HGA15T67	6306774G46	12HGA17B3	6306791G10
12HGA15N1	6306774G10	12HGA15S14	6306774G9	12HGA15T68	6306774G41	12HGA17B4	6306791G2
12HGA15N2	6306774G18	12HGA15S15	6306774G10	12HGA15T69	6306774G46	12HGA17B5	6306791G1
12HGA15N3	6306774G20	12HGA15S16	6306774G13	12HGA15T70	6306774G50	12HGA17B6	6306791G3
12HGA15N4	6306774G9	12HGA15S17	6306774G15	12HGA15T71	6306774G24	12HGA17B7	6306791G4
12HGA15N5	6306774G1	12HGA15S18	6306774G16	12HGA15T73	6306774G4	12HGA17B8	6306791G5
12HGA15N6	6306774G41	12HGA15S19	6306774G17	12HGA15T74	6306774G17	12HGA17B9	6306791G6
12HGA15N7	6306774G3	12HGA15S20	6306774G18	12HGA15T75	6306774G39	12HGA17B51	366A732G1
12HGA15N8	6306774G15	12HGA15T1	6306774G10	12HGA15T76	6306774G74	12HGA17B52	366A732G2
12HGA15N9	6306774G7	12HGA15T2	6306774G18	12HGA15T77	6306774G6	12HGA17B53	366A732G9
12HGA15N10	6306774G47	12HGA15T3	6306774G20	12HGA15V2	6306774G39	12HGA17B54	366A732G3
12HGA15N11	6306774G56	12HGA15T4	6306774G9	12HGA15W1	6306774G6	12HGA17B55	366A732G6
12HGA15N12	6306774G46	12HGA15T5	6306774G1	12HGA15W2	6306774G3	12HGA17B56	366A732G4
12HGA15N13	6306774G19	12HGA15T6	6306774G41	12HGA15W3	6306774G17	12HGA17B57	366A732G5
12HGA15N14	6306774G11	12HGA15T7	6306774G3	12HGA15W4	6306774G13	12HGA17B59	366A732G2
12HGA15N15	6306774G3	12HGA15T8	6306774G15	12HGA15W5	6306774G11	12HGA17B60	366A732G1
12HGA15N16	6306774G51	12HGA15T9	6306774G7	12HGA15W6	6306774G13	12HGA17B61	366A732G8
12HGA15N17	6306774G53	12HGA15T10	6306774G47	12HGA15W7	6306774G9	12HGA17B62	366A732G10
12HGA15N18	6306774G54	12HGA15T11	6306774G56	12HGA15W11	6306774G6	12HGA17B63	366A732G7
12HGA15N19	6306774G5	12HGA15T12	6306774G46	12HGA15W12	6306774G3	12HGA17B64	366A732G7
12HGA15N21	6306774G39	12HGA15T13	6306774G19	12HGA15W13	6306774G17	12HGA17B65	366A732G12
12HGA15N22	6306774G16	12HGA15T14	6306774G11	12HGA15W14	6306774G13	12HGA17C1	6306791G8
12HGA15N23	6306774G65	12HGA15T15	6306774G3	12HGA15W15	6306774G11	12HGA17C4	6306791G2
12HGA15N24	6306774G7	12HGA15T16	6306774G51	12HGA15W16	6306774G13	12HGA17C5	6306791G1
12HGA15N25	6306774G10	12HGA15T17	6306774G49	12HGA15W17	6306774G9	12HGA17C6	6306791G3
12HGA15R1	6306774G1	12HGA15T18	6306774G54	12HGA16A1	6128666G29	12HGA17C7	6306791G4
12HGA15R2	6306774G3	12HGA15T19	6306774G5	12HGA16A2	6128666G30	12HGA17C8	6306791G5
12HGA15R3	6306774G7	12HGA15T21	6306774G39	12HGA16A3	6128666G10	12HGA17C9	6306791G6
12HGA15R4	6306774G9	12HGA15T22	6306774G16	12HGA16A4	6128666G11	12HGA17C10	6306791G7
12HGA15R5	6306774G10	12HGA15T23	6306774G65	12HGA16A5	6128666G13	12HGA17C12	6306791G7
12HGA15R6	6306774G13	12HGA15T24	6306774G7	12HGA16A6	6128666G14	12HGA17C21	6306791G8
12HGA15R7	6306774G15	12HGA15T25	6306774G10	12HGA16A7	6128666G15	12HGA17C24	6306791G2
12HGA15R8	6306774G16	12HGA15T26	6306774G40	12HGA16A8	6128666G16	12HGA17C25	6306791G1
12HGA15R9	6306774G17	12HGA15T27	6306774G46	12HGA16A9	6128666G17	12HGA17C26	6306791G3
12HGA15R10	6306774G18	12HGA15T28	6306774G41	12HGA16A10	6128666G18	12HGA17C27	6306791G4
12HGA15R11	6306774G19	12HGA15T29	6306774G46	12HGA16A11	6128666G19	12HGA17C28	6306791G5
12HGA15R12	6306774G20	12HGA15T30	6306774G50	12HGA16A12	6128666G20	12HGA17C29	6306791G6
12HGA15R13	6306774G4	12HGA15T31	6306774G24	12HGA16A13	6128666G7	12HGA17C30	6306791G7
12HGA15R14	6306774G11	12HGA15T33	6306774G4	12HGA16A14	6128666G25	12HGA17C32	6306791G7
12HGA15R17	6306774G11	12HGA15T34	6306774G17	12HGA16A15	6128666G32	12HGA17C51	366A732G1
12HGA15R21	6306774G1	12HGA15T35	6306774G39	12HGA16B1	6306774G1	12HGA17C52	366A732G2
12HGA15R22	6306774G3	12HGA15T36	6306774G74	12HGA16B2	6306774G3	12HGA17C53	366A732G9
12HGA15R23	6306774G7	12HGA15T41	6306774G10	12HGA17A1	6118686G1	12HGA17C54	366A732G3
12HGA15R24	6306774G9	12HGA15T42	6306774G18	12HGA17A2	6174543G1	12HGA17C55	366A732G6
12HGA15R25	6306774G10	12HGA15T43	6306774G20	12HGA17A3	6306791G10	12HGA17C56	366A732G4
12HGA15R26	6306774G13	12HGA15T44	6306774G9	12HGA17A4	6306791G2	12HGA17C57	366A732G5
12HGA15R27	6306774G15	12HGA15T45	6306774G1	12HGA17A5	6306791G1	12HGA17C59	366A732G2
12HGA15R28	6306774G16	12HGA15T46	6306774G41	12HGA17A6	6306791G3	12HGA17C60	366A732G1
12HGA15R29	6306774G17	12HGA15T47	6306774G3	12HGA17A7	6306791G4	12HGA17C61	366A732G8
12HGA15R30	6306774G18	12HGA15T48	6306774G15	12HGA17A8	6306791G5	12HGA17C62	366A732G10



# TYPE HGA AUXILIARY RELAYS

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**TABLE H – OPERATING COILS**  
 SINGLE-UNIT RELAYS (ONE COIL REQUIRED)  
 (OR) THREE-UNIT RELAYS (THREE COILS REQUIRED PER COMPLETE RELAY)

RELAY MODEL NO.	COIL CAT. No.	RELAY MODEL NO.	COIL CAT. No.	RELAY MODEL NO.	COIL CAT. No.
12HGA17C63	366A732G7	12HGA17F65	366A732G12	12HGA18E3A	6306774G81
12HGA17C64	366A732G7	12HGA17H1	6306791G4	12HGA18E5A	6306774G69
12HGA17C65	366A732G12	12HGA17H2	6306791G3	12HGA18E7A	6306774G69
12HGA17D1	6306791G4	12HGA17H3	6306791G2	12HGA18E8A	6306774G69
12HGA17D2	6306791G3	12HGA17H4	6306791G1	12HGA18E9A	6306774G81
12HGA17D3	6306791G2	12HGA17H5	6306791G6	12HGA18E10A	6306774G81
12HGA17D4	6306791G1	12HGA17H51	366A732G1	12HGA18E11A	6306774G69
12HGA17D5	6306791G6	12HGA17H52	366A732G2	12HGA18F1A	6306774G69
12HGA17D6	6306791G4	12HGA17H53	366A732G9	12HGA18F2A	6306774G69
12HGA17D7	6306791G3	12HGA17H54	366A732G3	12HGA18F5A	6306774G69
12HGA17D8	6306791G2	12HGA17H55	366A732G6	12HGA18F7A	6306774G69
12HGA17D9	6306791G1	12HGA17H56	366A732G4	12HGA18F8A	6306774G69
12HGA17D10	6306791G6	12HGA17H57	366A732G5	12HGA18F10A	6306774G69
12HGA17D51	366A732G1	12HGA17H59	366A732G2	12HGA18F11A	6306774G69
12HGA17D52	366A732G2	12HGA17H60	366A732G1	12HGA18F12A	6306774G69
12HGA17D53	366A732G9	12HGA17H61	366A732G8	12HGA18F15A	6306774G69
12HGA17D54	366A732G3	12HGA17H62	366A732G10	12HGA18F17A	6306774G69
12HGA17D55	366A732G6	12HGA17H63	366A732G7	12HGA18F18A	6306774G69
12HGA17D56	366A732G4	12HGA17H64	366A732G7	12HGA18F21A	6306774G69
12HGA17D57	366A732G5	12HGA17H65	366A732G12	12HGA18F22A	6306774G69
12HGA17D59	366A732G2	12HGA17J1A	366A732G5	12HGA18F25A	6306774G69
12HGA17D60	366A732G1	12HGA17J2A	366A732G4	12HGA18F27A	6306774G69
12HGA17D61	366A732G8	12HGA17J3A	366A732G6	12HGA18F28A	6306774G69
12HGA17D62	366A732G10	12HGA17J4A	366A732G3	12HGA18F29A	6306774G69
12HGA17D63	366A732G7	12HGA17J5A	366A732G9	12HGA18H1A	6306774G69
12HGA17D64	366A732G7	12HGA17J6A	366A732G2	12HGA18H2A	6306774G69
12HGA17D65	366A732G12	12HGA17J7A	366A732G1	12HGA18J1A	6306774G69
12HGA17E1	6306791G4	12HGA17L1A	366A732G5	12HGA18J2A	6306774G69
12HGA17E2	6306791G3	12HGA17L2A	366A732G4	12HGA18J3A	6306774G69
12HGA17E3	6306791G2	12HGA17L3A	366A732G6	12HGA19B1	6306774G1
12HGA17E4	6306791G1	12HGA17L4A	366A732G3	12HGA19B2	6306774G3
12HGA17E5	6306791G6	12HGA17L5A	366A732G9	12HGA19B3	6306774G7
12HGA17E11	6306791G4	12HGA17L6A	366A732G2	12HGA19B4	6306774G9
12HGA17E12	6306791G3	12HGA17L7A	366A732G1	12HGA19B5	6306774G10
12HGA17E13	6306791G2	12HGA18A1A	6306774G67	12HGA19B6	6306774G13
12HGA17E14	6306791G1	12HGA18A2A	6306774G67	12HGA19B7	6306774G15
12HGA17E15	6306791G6	12HGA18A3A	6306774G68	12HGA19B8	6306774G16
12HGA17E51	366A732G1	12HGA18A4A	6306774G67	12HGA19B9	6306774G17
12HGA17E52	366A732G2	12HGA18A5A	6306774G67	12HGA19B10	6306774G18
12HGA17E53	366A732G9	12HGA18A6A	6306774G67	12HGA19B11	6306774G19
12HGA17E54	366A732G3	12HGA18A7A	6306774G67	12HGA19B12	6306774G20
12HGA17E55	366A732G6	12HGA18A8A	6306774G67	12HGA19B13	6306774G4
12HGA17E56	366A732G4	12HGA18A9A	6306774G71	12HGA19B14	6306774G11
12HGA17E57	366A732G5	12HGA18A10A	6306774G71	12HGA20A1	6306774G3
12HGA17E59	366A732G2	12HGA18A11A	6306774G67	12HGA20A2	6306774G47
12HGA17E60	366A732G1	12HGA18A12A	6306774G67	12HGA20A3	6306774G37
12HGA17E61	366A732G8	12HGA18A13A	6306774G67	12HGA20A4	6306774G41
12HGA17E62	366A732G10	12HGA18B1A	6306774G67	12HGA21A1	6174512G1
12HGA17E63	366A732G7	12HGA18B2A	6306774G67	12HGA21A2	6174512G2
12HGA17E64	366A732G7	12HGA18B3A	6306774G67	12HGA21B1	6306774G59
12HGA17E65	366A732G12	12HGA18B4A	6306774G68	12HGA21B2	6306774G60
12HGA17F1	6306791G4	12HGA18B5A	6306774G67	12HGA21B3	6306774G61
12HGA17F2	6306791G3	12HGA18B5A	6306774G67	12HGA22A1	6306774G72
12HGA17F3	6306791G2	12HGA18B6A	6306774G67	12HGA23A1	6306774G70
12HGA17F4	6306791G1	12HGA18B10A	6306774G67	12HGA24A1	6174512G3
12HGA17F5	6306791G6	12HGA18B11A	6306774G67	12HGA24A2	6174512G2
12HGA17F51	366A732G1	12HGA18B12A	6306774G67	12HGA24A3	6174512G2
12HGA17F52	366A732G2	12HGA18B13A	6306774G67	12HGA26A1	366A732G6
12HGA17F53	366A732G9	12HGA18B14A	6306774G67	12HGA26A2	366A732G3
12HGA17F54	366A732G3	12HGA18B15A	6306774G67	12HGA26A3	366A732G2
12HGA17F55	366A732G6	12HGA18B16A	6306774G67	12HGA26A4	366A732G1
12HGA17F56	366A732G4	12HGA18B21A	6306774G67	12HGA26A5	366A732G4
12HGA17F57	366A732G5	12HGA18B22A	6306774G67	12HGA26B1	6306774G9
12HGA17F59	366A732G2	12HGA18B23A	6306774G68	12HGA26B2	6306774G7
12HGA17F60	366A732G1	12HGA18B24A	6306774G67	12HGA26B3	6306774G3
12HGA17F61	366A732G8	12HGA18B25A	6306774G67	12HGA26B4	6306774G1
12HGA17F62	366A732G10	12HGA18B26A	6306774G67	12HGA26B5	6306774G10
12HGA17F63	366A732G7	12HGA18E1A	6306774G69	12HGA30A1	6275049G1
12HGA17F64	366A732G7	12HGA18E2A	6306774G69	12HGA31A2	6128785G10

**TYPE HGA AUXILIARY RELAYS**

**TABLE J — OPERATING COILS**

TWO-UNIT RELAYS (UNITS SIDE BY SIDE)  
ONE OF EACH COIL REQUIRED PER COMPLETE RELAY

RELAY MODEL NO.	COIL CATALOG NO.		RELAY MODEL NO.	COIL CATALOG NO.	
	LEFT UNIT	RIGHT UNIT		LEFT UNIT	RIGHT UNIT
12HGA11N1A	6306774G10	6306774G10	12HGA11N220A	6306774G41	6306774G39
12HGA11N2A	6306774G10	6306774G7	12HGA11N221A	6306774G41	6306774G36
12HGA11N3A	6306774G10	6306774G6	12HGA11N249A	6306774G41	6306774G41
12HGA11N4A	6306774G10	6306774G3	12HGA11N250A	6306774G41	6306774G39
12HGA11N5A	6306774G10	6306774G1	12HGA11N251A	6306774G41	6306774G36
12HGA11N6A	6306774G10	6306774G47	12HGA11N280A	6306774G39	6306774G39
12HGA11N7A	6306774G10	6306774G46	12HGA11N281A	6306774G39	6306774G36
12HGA11N8A	6306774G10	6306774G41	12HGA11N311A	6306774G36	6306774G36
12HGA11N9A	6306774G10	6306774G41	12HGA14AA1A	6306774G10	6306774G10
12HGA11N10A	6306774G10	6306774G39	12HGA14AA2A	6306774G10	6306774G7
12HGA11N11A	6306774G10	6306774G36	12HGA14AA3A	6306774G10	6306774G6
12HGA11N32A	6306774G7	6306774G7	12HGA14AA4A	6306774G10	6306774G3
12HGA11N33A	6306774G7	6306774G6	12HGA14AA5A	6306774G10	6306774G1
12HGA11N34A	6306774G7	6306774G3	12HGA14AA6A	6306774G10	6306774G47
12HGA11N35A	6306774G7	6306774G1	12HGA14AA7A	6306774G10	6306774G46
12HGA11N36A	6306774G7	6306774G47	12HGA14AA8A	6306774G10	6306774G41
12HGA11N37A	6306774G7	6306774G46	12HGA14AA9A	6306774G10	6306774G41
12HGA11N38A	6306774G7	6306774G41	12HGA14AA10A	6306774G10	6306774G39
12HGA11N39A	6306774G7	6306774G41	12HGA14AA11A	6306774G10	6306774G36
12HGA11N40A	6306774G7	6306774G39	12HGA14AA32A	6306774G7	6306774G7
12HGA11N41A	6306774G7	6306774G36	12HGA14AA33A	6306774G7	6306774G6
12HGA11N63A	6306774G6	6306774G6	12HGA14AA34A	6306774G7	6306774G3
12HGA11N64A	6306774G6	6306774G3	12HGA14AA35A	6306774G7	6306774G1
12HGA11N65A	6306774G6	6306774G1	12HGA14AA36A	6306774G7	6306774G47
12HGA11N66A	6306774G6	6306774G47	12HGA14AA37A	6306774G7	6306774G46
12HGA11N67A	6306774G6	6306774G46	12HGA14AA38A	6306774G7	6306774G41
12HGA11N68A	6306774G6	6306774G41	12HGA14AA39A	6306774G7	6306774G41
12HGA11N69A	6306774G6	6306774G41	12HGA14AA40A	6306774G7	6306774G39
12HGA11N70A	6306774G6	6306774G39	12HGA14AA41A	6306774G7	6306774G36
12HGA11N71A	6306774G6	6306774G36	12HGA14AA63A	6306774G6	6306774G6
12HGA11N94A	6306774G3	6306774G3	12HGA14AA64A	6306774G6	6306774G3
12HGA11N95A	6306774G3	6306774G1	12HGA14AA65A	6306774G6	6306774G1
12HGA11N96A	6306774G3	6306774G47	12HGA14AA66A	6306774G6	6306774G47
12HGA11N97A	6306774G3	6306774G46	12HGA14AA67A	6306774G6	6306774G46
12HGA11N98A	6306774G3	6306774G41	12HGA14AA68A	6306774G6	6306774G41
12HGA11N99A	6306774G3	6306774G41	12HGA14AA69A	6306774G6	6306774G41
12HGA11N100A	6306774G3	6306774G39	12HGA14AA70A	6306774G6	6306774G39
12HGA11N101A	6306774G3	6306774G36	12HGA14AA71A	6306774G6	6306774G36
12HGA11N125A	6306774G1	6306774G1	12HGA14AA94A	6306774G3	6306774G3
12HGA11N126A	6306774G1	6306774G47	12HGA14AA95A	6306774G3	6306774G1
12HGA11N127A	6306774G1	6306774G46	12HGA14AA96A	6306774G3	6306774G47
12HGA11N128A	6306774G1	6306774G41	12HGA14AA97A	6306774G3	6306774G46
12HGA11N129A	6306774G1	6306774G41	12HGA14AA98A	6306774G3	6306774G41
12HGA11N130A	6306774G1	6306774G39	12HGA14AA99A	6306774G3	6306774G41
12HGA11N131A	6306774G1	6306774G36	12HGA14AA100A	6306774G3	6306774G39
12HGA11N156A	6306774G47	6306774G47	12HGA14AA101A	6306774G3	6306774G36
12HGA11N157A	6306774G47	6306774G46	12HGA14AA125A	6306774G1	6306774G1
12HGA11N158A	6306774G47	6306774G41	12HGA14AA126A	6306774G1	6306774G47
12HGA11N159A	6306774G47	6306774G41	12HGA14AA127A	6306774G1	6306774G46
12HGA11N160A	6306774G47	6306774G39	12HGA14AA128A	6306774G1	6306774G41
12HGA11N161A	6306774G47	6306774G36	12HGA14AA129A	6306774G1	6306774G41
12HGA11N187A	6306774G46	6306774G46	12HGA14AA130A	6306774G1	6306774G39
12HGA11N188A	6306774G46	6306774G41	12HGA14AA131A	6306774G1	6306774G36
12HGA11N189A	6306774G46	6306774G41	12HGA14AA156A	6306774G47	6306774G47
12HGA11N190A	6306774G46	6306774G39	12HGA14AA157A	6306774G47	6306774G46
12HGA11N191A	6306774G46	6306774G36	12HGA14AA158A	6306774G47	6306774G41
12HGA11N218A	6306774G41	6306774G41	12HGA14AA159A	6306774G47	6306774G41
12HGA11N219A	6306774G41	6306774G41	12HGA14AA160A	6306774G47	6306774G39

# TYPE HGA AUXILIARY RELAYS

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**TABLE J – OPERATING COILS**  
 TWO-UNIT RELAYS (UNITS SIDE BY SIDE)  
 ONE OF EACH COIL REQUIRED PER COMPLETE RELAY

RELAY MODEL NO.	COIL CATALOG NO.		RELAY MODEL NO.	COIL CATALOG NO.	
	LEFT UNIT	RIGHT UNIT		LEFT UNIT	RIGHT UNIT
12HGA14AA161A	6306774G47	6306774G36	12HGA14AB129A	6306774G1	6306774G41
12HGA14AA187A	6306774G46	6306774G46	12HGA14AB130A	6306774G1	6306774G39
12HGA14AA188A	6306774G46	6306774G41	12HGA14AB131A	6306774G1	6306774G36
12HGA14AA189A	6306774G46	6306774G41	12HGA14AB156A	6306774G47	6306774G47
12HGA14AA190A	6306774G46	6306774G39	12HGA14AB157A	6306774G47	6306774G46
12HGA14AA191A	6306774G46	6306774G36	12HGA14AB158A	6306774G47	6306774G41
12HGA14AA218A	6306774G41	6306774G41	12HGA14AB159A	6306774G47	6306774G41
12HGA14AA219A	6306774G41	6306774G41	12HGA14AB160A	6306774G47	6306774G39
12HGA14AA220A	6306774G41	6306774G39	12HGA14AB161A	6306774G47	6306774G36
12HGA14AA221A	6306774G41	6306774G36	12HGA14AB187A	6306774G46	6306774G46
12HGA14AA249A	6306774G41	6306774G41	12HGA14AB188A	6306774G46	6306774G41
12HGA14AA250A	6306774G41	6306774G39	12HGA14AB189A	6306774G46	6306774G41
12HGA14AA251A	6306774G41	6306774G36	12HGA14AB190A	6306774G46	6306774G39
12HGA14AA280A	6306774G39	6306774G39	12HGA14AB191A	6306774G46	6306774G36
12HGA14AA281A	6306774G39	6306774G36	12HGA14AB218A	6306774G41	6306774G41
12HGA14AA311A	6306774G36	6306774G36	12HGA14AB219A	6306774G41	6306774G41
12HGA14AB1A	6306774G10	6306774G10	12HGA14AB220A	6306774G41	6306774G39
12HGA14AB2A	6306774G10	6306774G7	12HGA14AB221A	6306774G41	6306774G36
12HGA14AB3A	6306774G10	6306774G6	12HGA14AB249A	6306774G41	6306774G41
12HGA14AB4A	6306774G10	6306774G3	12HGA14AB250A	6306774G41	6306774G39
12HGA14AB5A	6306774G10	6306774G1	12HGA14AB251A	6306774G41	6306774G36
12HGA14AB6A	6306774G10	6306774G47	12HGA14AB280A	6306774G39	6306774G39
12HGA14AB7A	6306774G10	6306774G46	12HGA14AB281A	6306774G39	6306774G36
12HGA14AB8A	6306774G10	6306774G41	12HGA14AB311A	6306774G36	6306774G36
12HGA14AB9A	6306774G10	6306774G41	12HGA17K1A	6306774G10	366A732G4
12HGA14AB10A	6306774G10	6306774G39	12HGA17K2A	6306774G10	366A732G3
12HGA14AB11A	6306774G10	6306774G36	12HGA17K3A	6306774G10	366A732G9
12HGA14AB32A	6306774G7	6306774G7	12HGA17K4A	6306774G10	366A732G2
12HGA14AB33A	6306774G7	6306774G6	12HGA17K5A	6306774G10	366A732G1
12HGA14AB34A	6306774G7	6306774G3	12HGA17K31A	6306774G7	366A732G4
12HGA14AB35A	6306774G7	6306774G1	12HGA17K32A	6306774G7	366A732G3
12HGA14AB36A	6306774G7	6306774G47	12HGA17K33A	6306774G7	366A732G9
12HGA14AB37A	6306774G7	6306774G46	12HGA17K34A	6306774G7	366A732G2
12HGA14AB38A	6306774G7	6306774G41	12HGA17K35A	6306774G7	366A732G1
12HGA14AB39A	6306774G7	6306774G41	12HGA17K61A	6306774G6	366A732G4
12HGA14AB40A	6306774G7	6306774G39	12HGA17K62A	6306774G6	366A732G3
12HGA14AB41A	6306774G7	6306774G36	12HGA17K63A	6306774G6	366A732G9
12HGA14AB63A	6306774G6	6306774G6	12HGA17K64A	6306774G6	366A732G2
12HGA14AB64A	6306774G6	6306774G3	12HGA17K65A	6306774G6	366A732G1
12HGA14AB65A	6306774G6	6306774G1	12HGA17K91A	6306774G3	366A732G4
12HGA14AB66A	6306774G6	6306774G47	12HGA17K92A	6306774G3	366A732G3
12HGA14AB67A	6306774G6	6306774G46	12HGA17K93A	6306774G3	366A732G9
12HGA14AB68A	6306774G6	6306774G41	12HGA17K94A	6306774G3	366A732G2
12HGA14AB69A	6306774G6	6306774G41	12HGA17K95A	6306774G3	366A732G1
12HGA14AB70A	6306774G6	6306774G39	12HGA17K121A	6306774G1	366A732G4
12HGA14AB71A	6306774G6	6306774G36	12HGA17K122A	6306774G1	366A732G3
12HGA14AB94A	6306774G3	6306774G3	12HGA17K123A	6306774G1	366A732G9
12HGA14AB95A	6306774G3	6306774G1	12HGA17K124A	6306774G1	366A732G2
12HGA14AB96A	6306774G3	6306774G47	12HGA17K125A	6306774G1	366A732G1
12HGA14AB97A	6306774G3	6306774G46	12HGA17K151A	6306774G47	366A732G4
12HGA14AB98A	6306774G3	6306774G41	12HGA17K152A	6306774G47	366A732G3
12HGA14AB99A	6306774G3	6306774G41	12HGA17K153A	6306774G47	366A732G9
12HGA14AB100A	6306774G3	6306774G39	12HGA17K154A	6306774G47	366A732G2
12HGA14AB101A	6306774G3	6306774G36	12HGA17K155A	6306774G47	366A732G1
12HGA14AB125A	6306774G1	6306774G3	12HGA17K181A	6306774G41	366A732G4
12HGA14AB126A	6306774G1	6306774G47	12HGA17K182A	6306774G41	366A732G3
12HGA14AB127A	6306774G1	6306774G46	12HGA17K183A	6306774G41	366A732G9
12HGA14AB128A	6306774G1	6306774G41	12HGA17K184A	6306774G41	366A732G2
			12HGA17K185A	6306774G41	366A732G1



TYPE HGA AUXILIARY RELAYS

EXTERNAL AUXILIARIES

RELAY MODEL NO.	RESISTOR		RECTIFIER		CAPACITOR	
	CAT. NO.	NO. REQ.	MODEL NO.	NO. REQ.	CAT. NO.	NO. REQ.
12HGA11A61	3887725G52	1	-----	-----	-----	-----
12HGA11A62	3887729G81	1	-----	-----	-----	-----
12HGA11A63	3887729G85	1	-----	-----	-----	-----
12HGA11A64	3887729G86	1	-----	-----	-----	-----
12HGA11A106	-----	-----	6RC3B122V	4	-----	-----
12HGA11A150	3887725G27	1	-----	-----	-----	-----
12HGA11B61	3887725G52	1	-----	-----	-----	-----
12HGA11B62	3887729G81	1	-----	-----	-----	-----
12HGA11B63	3887729G85	1	-----	-----	-----	-----
12HGA11B64	3887729G86	1	-----	-----	-----	-----
12HGA11B106	-----	-----	6RC3B122V	4	-----	-----
12HGA11B150	3887725G27	1	-----	-----	-----	-----
12HGA13A6	3887725G52	1	-----	-----	-----	-----
12HGA13A12	3887725G51	1	-----	-----	-----	-----
12HGA13A29	3887725G50	1	-----	-----	-----	-----
12HGA13A30	3887725G50	1	-----	-----	-----	-----
12HGA13B2	3887725G52	1	-----	-----	-----	-----
12HGA14A61	3887725G52	1	-----	-----	-----	-----
12HGA14A62	3887729G81	1	-----	-----	-----	-----
12HGA14A63	3887729G85	1	-----	-----	-----	-----
12HGA14A64	3887729G86	1	-----	-----	-----	-----
12HGA14A93	-----	-----	6RC3B122V	2	-----	-----
12HGA14A106	-----	-----	6RC3B122V	4	-----	-----
12HGA14A149	-----	-----	6RC3B122V	2	-----	-----
12HGA14A150	3887725G27	1	-----	-----	-----	-----
12HGA14D1	2673218G1— 700	1	-----	-----	23F713G102	2
12HGA14D2	2673218G1— 4000	1	-----	-----	23F445G102	1
12HGA14D3	2673218G1— 4000	1	-----	-----	23F445G102	1
12HGA14D4	2673218G1—12000	1	-----	-----	23F445G102	1
12HGA14D5	2673218G1—12000	1	-----	-----	23F445G102	2
12HGA14D6	2673218G1— 4000	1	-----	-----	23F445G102	2
12HGA14L2	-----	-----	6154557P1	1	-----	-----
12HGA14L4	-----	-----	6154557P1	1	-----	-----
12HGA14R1	5901275G2—12500	1	-----	-----	23F19	2
12HGA14S6A	-----	-----	-----	-----	23F713G102	1
12HGA14S16A	-----	-----	-----	-----	23F713G102	1
12HGA14AC1	-----	-----	-----	-----	21F916	2
12HGA14AC2	-----	-----	-----	-----	21F915	2
12HGA14AC3	-----	-----	-----	-----	21F915	2
12HGA14AD61	3887725G52	1	-----	-----	-----	-----
12HGA14AD62	3887729G81	1	-----	-----	-----	-----
12HGA14AD63	3887729G85	1	-----	-----	-----	-----
12HGA14AD64	3887729G86	1	-----	-----	-----	-----
12HGA14AD106	-----	-----	6RC3B122V	4	-----	-----
12HGA14AD149	-----	-----	6RC3B122V	2	-----	-----
12HGA14AD150	3887725G27	1	-----	-----	-----	-----
12HGA14AE61	3887725G52	1	-----	-----	-----	-----
12HGA14AE62	3887729G81	1	-----	-----	-----	-----
12HGA14AE63	3887729G85	1	-----	-----	-----	-----
12HGA14AE64	3887729G86	1	-----	-----	-----	-----
12HGA14AE106	-----	-----	6RC3B122V	4	-----	-----
12HGA14AE149	-----	-----	6RC3B122V	2	-----	-----
12HGA14AE150	3887725G27	1	-----	-----	-----	-----
12HGA14AF61	3887725G52	1	-----	-----	-----	-----
12HGA14AF62	3887729G81	1	-----	-----	-----	-----
12HGA14AF63	3887729G85	1	-----	-----	-----	-----
12HGA14AF64	3887729G86	1	-----	-----	-----	-----
12HGA14AF106	-----	-----	6RC3B122V	4	-----	-----
12HGA14AF149	-----	-----	6RC3B122V	2	-----	-----
12HGA14AF150	3887725G27	1	-----	-----	-----	-----
12HGA14AK1A	-----	-----	-----	-----	21F713G102	2
12HGA15N15	-----	-----	6RC3B122V	2	-----	-----
12HGA15N20	-----	-----	6RC3B122V	2	-----	-----
12HGA15T15	-----	-----	6RC3B122V	2	-----	-----
12HGA15T20	-----	-----	6RC3B122V	2	-----	-----
12HGA15T55	-----	-----	6RC3B122V	2	-----	-----
12HGA17A63	-----	-----	6RC3B122V	2	-----	-----

TYPE HGA AUXILIARY RELAYS

GEF-2623E

EXTERNAL AUXILIARIES

RELAY MODEL NO.	RESISTOR		RECTIFIER		CAPACITOR	
	CAT. NO.	NO. REQ.	MODEL NO.	NO. REQ.	CAT. NO.	NO. REQ.
12HGA17A64	3887729G55	1	6RC3B122V	2	-----	-----
12HGA17B63	-----	-----	6RC3B122V	2	-----	-----
12HGA17B64	3887729G55	1	6RC3B122V	2	-----	-----
12HGA17C63	-----	-----	6RC3B122V	2	-----	-----
12HGA17C64	3887729G55	1	6RC3B122V	2	-----	-----
12HGA17D63	-----	-----	6RC3B122V	2	-----	-----
12HGA17D64	3887729G55	1	6RC3B122V	2	-----	-----
12HGA17E63	-----	-----	6RC3B122V	2	-----	-----
12HGA17E64	3887729G55	1	6RC3B122V	2	-----	-----
12HGA17F63	-----	-----	6RC3B122V	2	-----	-----
12HGA17F64	3887729G55	1	6RC3B122V	2	-----	-----
12HGA17H63	-----	-----	6RC3B122V	2	-----	-----
12HGA17H64	3887729G55	1	6RC3B122V	2	-----	-----
12HGA18A3	-----	-----	-----	-----	23F443G102	1
12HGA18A4	-----	-----	6RC3B134V	4	-----	-----
12HGA18A5	-----	-----	-----	-----	23F445G102	1
12HGA18A6	-----	-----	6RC3B134V	4	-----	-----
12HGA18A9	-----	-----	-----	-----	23F445G102	1
12HGA18A10	-----	-----	-----	-----	23F445G102	3
12HGA18A12	-----	-----	6RC3B134V	4	-----	-----
12HGA18B3	-----	-----	-----	-----	23F443G102	1
12HGA18B4	-----	-----	6RC3B134V	4	-----	-----
12HGA18B5	-----	-----	-----	-----	23F445G102	1
12HGA18B6	-----	-----	6RC3B134V	4	-----	-----
12HGA18B13	-----	-----	-----	-----	23F443G102	1
12HGA18B14	-----	-----	6RC3B134V	4	-----	-----
12HGA18B15	-----	-----	-----	-----	23F445G102	1
12HGA18B16	-----	-----	6RC3B134V	4	-----	-----
12HGA18B23	-----	-----	-----	-----	23F443G102	1
12HGA18B24	-----	-----	6RC3B134V	4	-----	-----
12HGA18B25	-----	-----	-----	-----	23F445G102	1
12HGA18B26	-----	-----	6RC3B134V	4	-----	-----
12HGA18E1	-----	-----	-----	-----	23F443G102	1
12HGA18E3	-----	-----	-----	-----	23F445G102	1
12HGA18E5	-----	-----	-----	-----	23F445G102	3
12HGA18E9	-----	-----	-----	-----	23F445G102	1
12HGA18E10	-----	-----	-----	-----	23F445G102	1
12HGA18F5	-----	-----	-----	-----	23F445G102	1
12HGA18F8	-----	-----	-----	-----	23F443G102	1
12HGA18F15	-----	-----	-----	-----	23F445G102	1
12HGA18F18	-----	-----	-----	-----	23F443G102	1
12HGA18F25	-----	-----	-----	-----	23F445G102	1
12HGA18F28	-----	-----	-----	-----	23F443G102	1
12HGA18H1	-----	-----	6RC3B134V	4	-----	-----
12HGA18H2	-----	-----	6RC3B134V	2	-----	-----
12HGA18J1	-----	-----	6RC3B134V	4	-----	-----
12HGA18J2	-----	-----	6RC3B134V	4	-----	-----
12HGA18J3	-----	-----	6RC3B134V	4	-----	-----
12HGA24A1	3887725G55	1	-----	-----	-----	-----
12HGA24A2	3887725G52	1	6RC3B122V	1	-----	-----
12HGA24A3	3887725G52	1	6RC3B122V	1	-----	-----

# WHEN YOU NEED SERVICE

IF YOU NEED TO REPAIR, recondition, or rebuild any electric apparatus, a G-E service shop near you is available day and night, seven days a week, for work in the shops or on your premises. Latest factory methods and genuine G-E renewal parts are used to maintain the original performance of your G-E equipment. For full information about these services, contact the nearest service shop or sales office listed below:

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 County Trunk, "p"  
 Atlanta—Chamblee, Ga. . . . . 4639 Peachtree  
 Indus. Blvd.  
 Baltimore 30, Md. . . . . 920 E. Fort Ave.  
 Boston—Medford 55, Mass. Mystic Valley Pkwy.  
 Buffalo 11, N. Y. . . . . 318 Urban St.  
 Charleston 28, W. Va. . . . . 306 MacCorkle Ave., S.E.  
 Charlotte, N. C. . . . . 2328 Thrift Road  
 Chicago 32, Ill. . . . . 4360 W. 47th St.  
 Cincinnati 2, Ohio . . . . . 444 W. Third St.  
 Cleveland 4, Ohio . . . . . 4966 Woodland Ave.  
 Columbus 23, Ohio . . . . . 2128 Eakin Rd.  
 Corpus Christi, Texas . . . . . 115 Busse St.  
 Dallas 19, Texas . . . . . 3202 Manor Way  
 Davenport—Bettendorf, Ia. . . . . 1039 State St.  
 Decatur, Ill. . . . . 2225 E. Logan St.  
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 Detroit 2, Mich. . . . . 5950 Third Ave.  
 Houston 20, Texas . . . . . 5534 Harvey Wilson Drive  
 Indianapolis 22, Ind. . . . . 1740 W. Vermont St.  
 Johnstown, Pa. . . . . 841 Oak St.  
 Kansas City 8, Mo. . . . . 819 E. 19th St.  
 Los Angeles 1, Calif. . . . . 6900 Stanford Ave.  
 Louisville, Ky. . . . . 2014 New Main St.  
 Midland, Tex. . . . . 3404 Bankhead Hwy.  
 Milwaukee 3, Wisc. . . . . 940 W. St. Paul Ave.  
 Minneapolis 12, Minn. . . . . 2025 49th Ave., N.  
 New Orleans, La. . . . . 2815 N. Robertson St.  
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 Youngstown 5, Ohio . . . . . 272 E. Indianola Ave.

Bismarck, N. Dak. . . . . 418 Rosser Ave.  
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 Appalachian Bldg.  
 Boise, Idaho . . . . . 1524 Idaho St.  
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 Charleston 28, W. Va. . . . . 306 MacCorkle Ave., S.E.  
 Charlotte 1, N. C. . . . . 112 S. Tryon St.  
 Chattanooga 2, Tenn. . . . . 832 Georgia Ave.  
 Chicago 80, Ill. P.O. Box 5970A, 840 S. Canal St.  
 Cincinnati 2, Ohio . . . . . 215 W. Third St.  
 Cleveland 4, Ohio . . . . . 4966 Woodland Ave.  
 Columbia 1, S.C., P.O. Box 1434, 1420 Lady St.  
 Columbus 15, Ohio . . . . . 40 S. Third St.  
 Corpus Christi, Texas . . . . . 205 N. Chaparral  
 Dallas 2, Texas . . . . . 1801 N. Lamar St.  
 Davenport—Bettendorf, Ia. . . . . 1039 State St.  
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 Des Moines 9, Iowa . . . . . 505 W. Fifth Ave.  
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 Lake Charles, La. . . . . 422 Seventh St.  
 Lansing 8, Mich. . . . . 306 Michigan National Tower  
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 Seattle 8, Wash. . . . . Avia. & Def., 220 Dawson St.  
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 Spokane 4, Wash. . . . . S. 162 Post St.  
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 Springfield 3, Mass. . . . . 1387 Main St.  
 Stockton, Calif. . . . . 11 So. San Joaquin St.  
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 Worcester 5, Mass. . . . . 288 Grove St.  
 York, Pa. . . . . 56 N. Harrison St.  
 Youngstown 5, Ohio . . . . . 272 E. Indianola Ave.

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Canada: Canadian General Electric Company, Ltd., Toronto

LOW VOLTAGE SWITCHGEAR DEPARTMENT, GENERAL ELECTRIC COMPANY, PHILADELPHIA, PA.

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