



## RENEWAL PARTS

# Type HKA Closing Relays

## Ordering Instructions

1. Always specify the complete nameplate data of the relay, including complete model No. of 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.
5. The upper or lower terminal block will be supplied with contact fingers in all positions and loose shorting bars. These parts are to be used as required.

## How to Use this Bulletin

1. Relay models covered by this bulletin are listed in the left-hand column of the tabulation beginning on page 3.
2. To find the catalog number of a renewal part:
  - A. Referring to the illustrations on pages 1 and 2, find the reference letter for the required part.
  - B. Locate the reference letter and/or description of the part in the column headings at the top of the tabulation.
  - C. Note the numeral at the intersection of the reference letter column and model number line. This numeral, when added to the reference letter, provides the key to the catalog number of the part, which is listed in the table on the page indicated.

### Example:

To find the catalog number of the operating coil for the Model 12HKA11J1 relay:

- A. Figures 1, 2, and 3 on pages 1 and 2 indicate that the reference letter for the operating coil is: "A"
- B. Locate reference letter "A" in the column headings on page 3.
- C. At the intersection of the "A" column and Model 12HKA-11J1 line find the numeral 17. The complete reference symbol is therefore, "A-17". Referring to page 6 in the catalog, the number is found to be 721-366A772G20 (one required per relay).

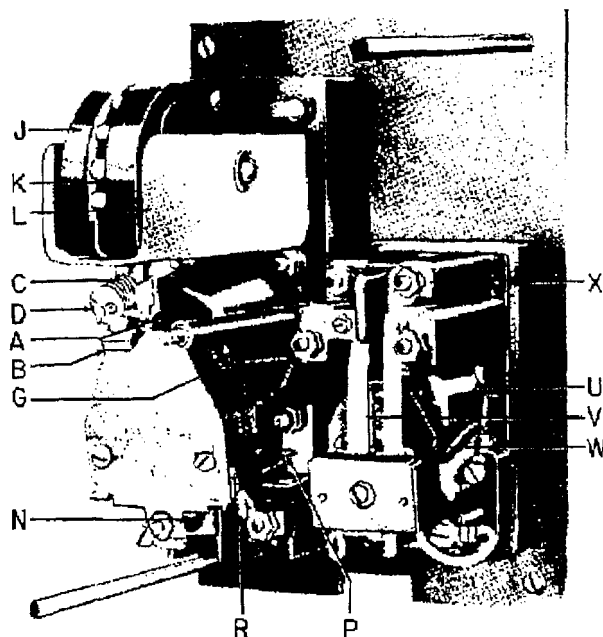


Fig. 1. Type HKA relay, moderate duty, using HGA style auxiliary unit, side-by-side arrangement

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## GEF-3379, TYPE HKA RELAYS

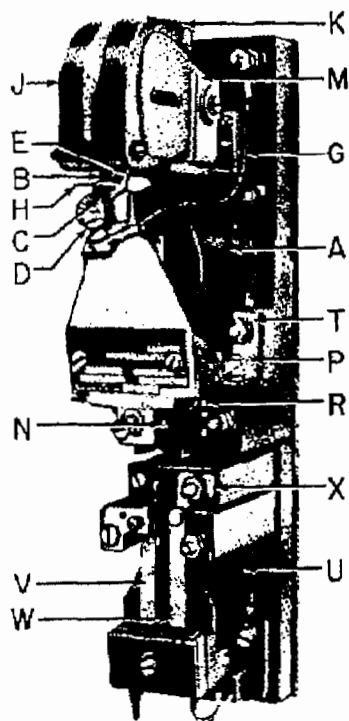


Fig. 2. Type HKA relay, light duty, using HGA style auxiliary unit and vertical arrangement

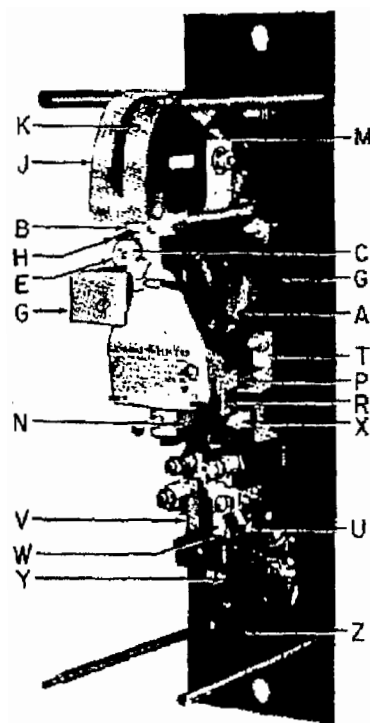


Fig. 3. Type HKA relay, heavy duty, using HMA style auxiliary unit, and vertical arrangement

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## TYPE HKA RELAYS, GEF-3379

| RELAY MODEL NUMBER | Operating Coil | Moving Contact | Moving Spring | Moving Spring Seat | Stationary Contact | Stationary Contact | Stationary Discharge | Shunt Assembly (With Leads and Terminals) | Arc Horn | Arc Chute (Left Half) | Arc Chute (Right Half) | Arc Guard | Blowout Magnet | Control Spring | Auxiliary Moving Contact (Left) | Auxiliary Moving Contact (Right) | Auxiliary Moving Contact Spring (L. & R.) | Operating Coil | Auxiliary Stationary Contact (Left) | Auxiliary Stationary Contact (Right) | Moving Contact (Left) | Moving Contact (Right) | Stationary Contact (Left and Right) | Control Spring | Resistor |
|--------------------|----------------|----------------|---------------|--------------------|--------------------|--------------------|----------------------|-------------------------------------------|----------|-----------------------|------------------------|-----------|----------------|----------------|---------------------------------|----------------------------------|-------------------------------------------|----------------|-------------------------------------|--------------------------------------|-----------------------|------------------------|-------------------------------------|----------------|----------|
| Page Table         | A              | *B             | C             | D                  | *E                 | F                  | G                    | H                                         | I        | J                     | K                      | L         | M              | *N             | *P                              | *Q                               | *R†                                       | *S             | *T                                  | *U                                   | *V                    | *W                     | *X†                                 | *Y             | *Z       |
| 12HKA11J1          | 17             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 21                                   | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J2          | 16             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 22                                   | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J3          | 3              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 2                                    | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J4          | 2              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 1                                    | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J5          | 5              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 5                                    | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J6          | 4              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 4                                    | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J7          | 18             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 3                                    | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J8          | 6              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 23                                   | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J9          | 8              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 6                                    | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J10         | 17             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 24                                   | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J11         | 16             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 25                                   | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J12         | 19             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 26                                   | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11J13         | 20             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 27                                   | 2                     | 1                      | 1                                   | 1              | —        |
| 12HKA11V6          | 6              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 5                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11V6          | 6              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 4                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11V7          | 5              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 3                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11V9          | 1              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 6                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11V11         | 5              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 25                                   | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11V12         | 21             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 3                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11V13         | 21             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 28                                   | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11V18         | 6              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 27                                   | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11W5          | 8              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 5                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11W6          | 8              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 4                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11W7          | 5              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 3                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11W9          | 1              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 6                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11W11         | 5              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 25                                   | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11W12         | 21             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 3                                    | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11W13         | 21             | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 28                                   | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA11W16         | 8              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 27                                   | —                     | 3                      | 1,3                                 | 1              | 6        |
| 12HKA21A3          | 3              | 1              | 1             | 1                  | 1                  | —                  | 1                    | 1                                         | 1        | 1                     | 1                      | —         | 1              | 1              | 1                               | 1                                | 1                                         | 1              | 1                                   | 2                                    | 2                     | 1                      | 1                                   | 1              | —        |

\*Recommended for stock for normal maintenance

†Not shown.

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## GEF-3579, TYPE HKA RELAYS

| Ref. Symbol | Fig. No. | Catalog Number | No. Per Relay |
|-------------|----------|----------------|---------------|
|-------------|----------|----------------|---------------|

TABLE A  
OPERATING COIL

|      |       |                |   |
|------|-------|----------------|---|
| A-1  | 1,2,3 | 721-366A772G25 | 1 |
| A-2  | 1,2,3 | 721-366A772G26 | 1 |
| A-3  | 1,2,3 | 721-366A772G28 | 1 |
| A-4  | 1,2,3 | 721-366A772G36 | 1 |
| A-5  | 1,2,3 | 721-366A772G37 | 1 |
| A-6  | 1,2,3 | 721-366A772G39 | 1 |
| A-7  | 1,2,3 | 721-366A772G42 | 1 |
| A-8  | 1,2,3 | 721-366A772G44 | 1 |
| A-9  | 1,2,3 | 721-366A772G45 | 1 |
| A-10 | 1,2,3 | 721-366A772G46 | 1 |
| A-11 | 1,2,3 | 721-366A772G47 | 1 |
| A-12 | 1,2,3 | 721-366A772G48 | 1 |
| A-13 | 1,2,3 | 721-366A772G49 | 1 |
| A-14 | 1,2,3 | 721-6275007G5  | 1 |
| A-15 | 1,2,3 | 721-6275007G6  | 1 |
| A-16 | 1,2,3 | 721-366A772G18 | 1 |
| A-17 | 1,2,3 | 721-366A772G20 | 1 |
| A-18 | 1,2,3 | 721-366A772G19 | 1 |
| A-19 | 1,2,3 | 721-366A772G17 | 1 |
| A-20 | 1,2,3 | 721-366A772G23 | 1 |
| A-21 | 1,2,3 | 721-366A772G25 | 1 |

TABLE B  
MAIN MOVING CONTACT

|     |       |               |   |
|-----|-------|---------------|---|
| B-1 | 1,2,3 | 721-2455288G1 | 1 |
| B-2 | 1,2,3 | 721-6375391G1 | 1 |

TABLE C  
MAIN MOVING CONTACT SPRING

|     |       |               |   |
|-----|-------|---------------|---|
| C-1 | 1,2,3 | 721-6272811G1 | 1 |
|-----|-------|---------------|---|

TABLE D  
MAIN MOVING CONTACT SPRING SEAT

|     |       |              |   |
|-----|-------|--------------|---|
| D-1 | 1,2,3 | 721-439134P1 | 1 |
| D-2 | 1,2,3 | 721-439134P1 | 2 |

TABLE E  
MAIN STATIONARY CONTACT

|     |     |               |   |
|-----|-----|---------------|---|
| E-1 | 2,3 | 721-6174374P1 | 1 |
|-----|-----|---------------|---|

TABLE F  
MAIN STATIONARY DISCHARGE CONTACT

|     |   |              |   |
|-----|---|--------------|---|
| F-1 | 3 | 721-637539G1 | 1 |
|-----|---|--------------|---|

TABLE G  
SPUNT ASSEMBLY WITH LEADS AND TERMINALS

|     |       |                |   |
|-----|-------|----------------|---|
| G-1 | 1,2,3 | 721-6591440-G2 | 1 |
|-----|-------|----------------|---|

| Ref. Symbol | Fig. No. | Catalog Number | No. Per Relay |
|-------------|----------|----------------|---------------|
|-------------|----------|----------------|---------------|

TABLE H  
ARC HORN

|     |     |               |   |
|-----|-----|---------------|---|
| H-1 | 2,3 | 721-6449009G1 | 1 |
|-----|-----|---------------|---|

TABLE J  
ARC CHUTE (LEFT HAND)

|     |       |               |   |
|-----|-------|---------------|---|
| J-1 | 1,2,3 | 721-2433822G1 | 1 |
| J-2 | 1,2,3 | 721-6140757G1 | 1 |

TABLE K  
ARC CHUTE (RIGHT HALF)

|     |       |               |   |
|-----|-------|---------------|---|
| K-1 | 1,2,3 | 721-2433823G1 | 1 |
| K-2 | 1,2,3 | 721-6140758G1 | 1 |

TABLE L  
ARC GUARD

|     |   |               |   |
|-----|---|---------------|---|
| L-1 | 1 | 721-6154408P1 | 1 |
| L-2 | 1 | 721-6154408P2 | 1 |

TABLE M  
BLOWOUT MAGNET

|     |     |               |   |
|-----|-----|---------------|---|
| M-1 | 2,3 | 721-6055440P1 | 1 |
| M-2 | 2,3 | 721-6055440P3 | 1 |

TABLE N  
CONTROL SPRING

|     |       |             |   |
|-----|-------|-------------|---|
| N-1 | 1,2,3 | 721-6079851 | 2 |
| N-2 | 1,2,3 | 721-6079869 | 1 |
| N-3 | 1,2,3 | 721-6079851 | 1 |

TABLE P  
AUXILIARY MOVING CONTACT (RIGHT)

|     |       |              |   |
|-----|-------|--------------|---|
| P-1 | 1,2,3 | 721-607620G2 | 1 |
| P-2 | 1,2,3 | 721-607620G3 | 1 |

TABLE Q  
AUXILIARY MOVING CONTACT (LEFT)

|     |   |               |   |
|-----|---|---------------|---|
| Q-1 | - | 721-6076202G1 | 1 |
|-----|---|---------------|---|

TABLE R  
AUXILIARY MOVING-CONTACT SPRING (LEFT AND RIGHT)

|     |       |               |   |
|-----|-------|---------------|---|
| R-1 | 1,2,3 | 721-6078893G1 | 2 |
| R-2 | 1,2,3 | 721-6078868G1 | 2 |

TABLE S  
AUXILIARY STATIONARY CONTACT (LEFT)

|     |   |               |   |
|-----|---|---------------|---|
| S-1 | - | 721-6075852G1 | 1 |
| S-2 | - | 721-6075852G2 | 1 |

TABLE T  
AUXILIARY STATIONARY CONTACT (RIGHT)

|     |       |               |   |
|-----|-------|---------------|---|
| T-1 | 1,2,3 | 721-6075852G2 | 1 |
|-----|-------|---------------|---|

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## TYPE HKA RELAYS, GEF-3379

| Ref. Symbol | Fig. No. | Catalog Number | No. Per Relay |
|-------------|----------|----------------|---------------|
|-------------|----------|----------------|---------------|

TABLE U  
AUXILIARY UNIT OPERATING COIL

|      |       |                |   |
|------|-------|----------------|---|
| U-1  | 1,2,3 | 721-6306774G2  | 1 |
| U-2  | 1,2,3 | 721-6306774G4  | 1 |
| U-3  | 1,2,3 | 721-6306774G38 | 1 |
| U-4  | 1,2,3 | 721-6306774G39 | 1 |
| U-5  | 1,2,3 | 721-6306774G42 | 1 |
| U-6  | 1,2,3 | 721-6306774 48 | 1 |
| U-7  | 1,2,3 | 721-6306763G7  | 1 |
| U-8  | 1,2,3 | 721-6306763G46 | 1 |
| U-9  | 1,2,3 | 721-6306763G20 | 1 |
| U-10 | 1,2,3 | 721-6306763G9  | 1 |
| U-11 | 1,2,3 | 721-6306763G47 | 1 |
| U-12 | 1,2,3 | 721-6306763G23 | 1 |
| U-13 | 1,2,3 | 721-6306763G45 | 1 |
| U-14 | 1,2,3 | 721-6306763G8  | 1 |
| U-15 | 1,2,3 | 721-6306763G44 | 1 |
| U-16 | 1,2,3 | 721-6306763G27 | 1 |
| U-17 | 1,2,3 | 721-6306763G3  | 1 |
| U-18 | 1,2,3 | 721-6306763G50 | 1 |
| U-19 | 1,2,3 | 721-6306763G22 | 1 |
| U-20 | 1,2,3 | 721-6306763G43 | 1 |
| U-21 | 1,2,3 | 721-6306763G11 | 1 |
| U-22 | 1,2,3 | 721-6306763G8  | 1 |
| U-23 | 1,2,3 | 721-6306763G47 | 1 |
| U-24 | 1,2,3 | 721-6306763G9  | 1 |
| U-25 | 1,2,3 | 721-6306763G37 | 1 |
| U-26 | 1,2,3 | 721-6306763G6  | 1 |
| U-27 | 1,2,3 | 721-6306763G41 | 1 |
| U-28 | 1,2,3 | 721-6306763G76 | 1 |

| Ref. Symbol | Fig. No. | Catalog Number | No. Per Relay |
|-------------|----------|----------------|---------------|
|-------------|----------|----------------|---------------|

TABLE V  
AUXILIARY-UNIT MOVING CONTACT (LEFT)

|     |       |                |   |
|-----|-------|----------------|---|
| V-1 | 1,2,3 | 721-6118684G4  | 1 |
| V-2 | 1,2,3 | 721-6118684P22 | 1 |

TABLE W  
AUXILIARY-UNIT MOVING CONTACT (RIGHT)

|     |       |                |   |
|-----|-------|----------------|---|
| W-1 | 1,2,3 | 721-6118684G4  | 1 |
| W-2 | 1,2,3 | 721-6118684P22 | 1 |
| W-3 | 1,2,3 | 721-6118684G4  | 2 |

TABLE X  
AUXILIARY-UNIT STATIONARY CONTACT (RIGHT AND LEFT)

|     |       |               |   |
|-----|-------|---------------|---|
| X-1 | 1,2,3 | 721-6075870G3 | 1 |
| X-2 | 1,2,3 | 721-6075870G3 | 2 |
| X-3 | 1,2,3 | 721-6075870G4 | 1 |

TABLE Y  
AUXILIARY UNIT CONTROL SPRING

|     |   |               |   |
|-----|---|---------------|---|
| Y-1 | 3 | 721-6078999G1 | 1 |
| Y-2 | 3 | 721-6079870G1 | 1 |
| Y-3 | 3 | 721-6079890G1 | 1 |

TABLE Z  
RESISTOR

|     |   |                 |   |
|-----|---|-----------------|---|
| Z-1 | 3 | 721-403A322P44  | 1 |
| Z-2 | 3 | 721-403A322P45  | 1 |
| Z-3 | 3 | 721-403A322P245 | 1 |
| Z-4 | 3 | 721-403A322P246 | 1 |
| Z-5 | 3 | 721-403A322P43  | 1 |
| Z-6 | 3 | 721-4C9006C102B | 1 |

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