

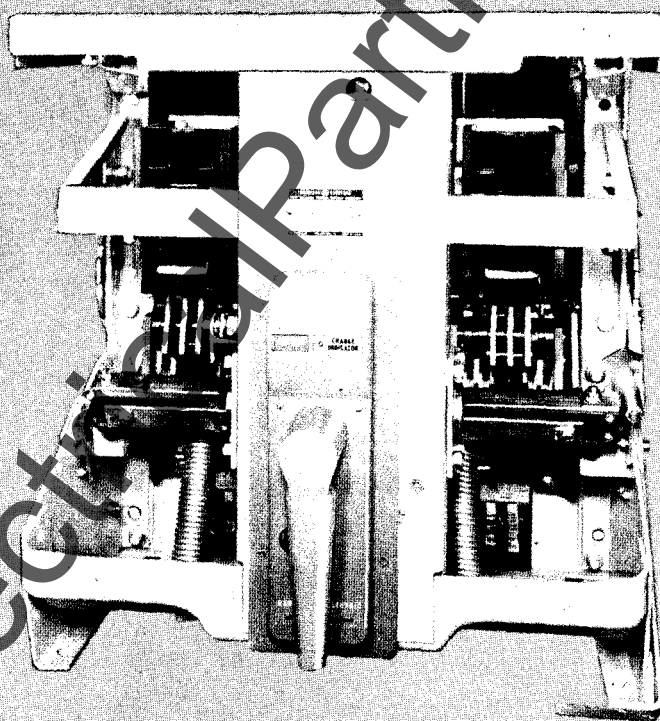
Renewal  
Parts

GEF-4395B



# Power Circuit Breakers

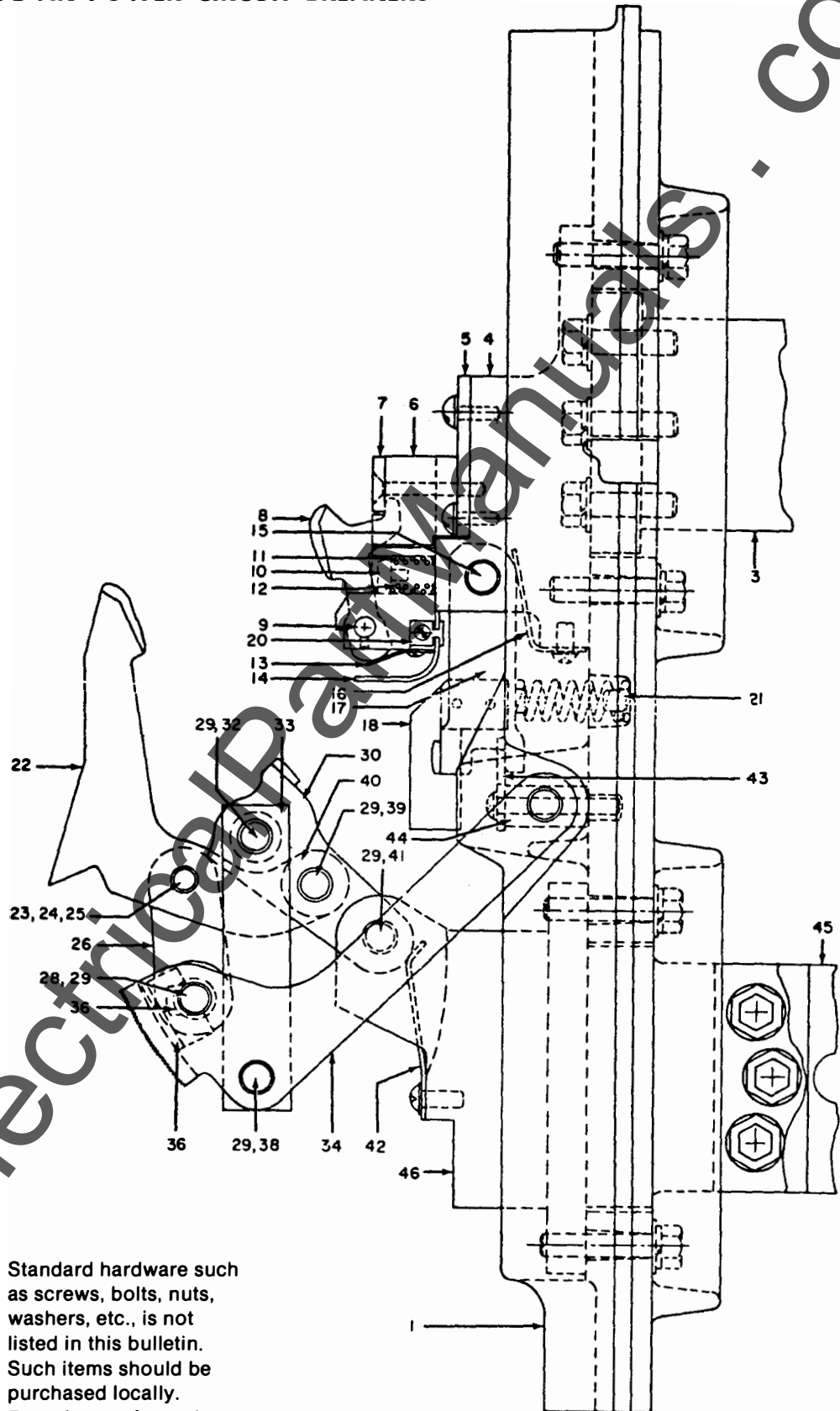
Types AK-2/3/4/5-75  
and AK-2A/3A/4A  
5A-75



*Type AK-2-75 manual circuit breaker*

GENERAL  ELECTRIC

## TYPE AK POWER CIRCUIT BREAKERS

**Ordering Instructions**

1. Always specify complete nameplate data of the breaker.
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.

Fig. 1. Pole unit.

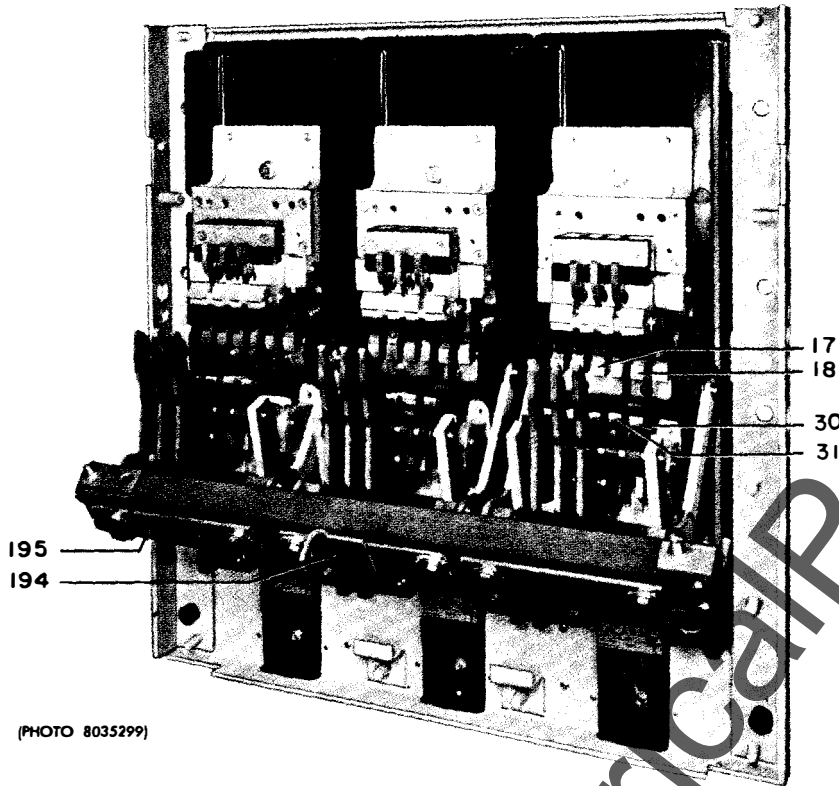
| Fig. No. | Ref. No. | Number Required per Pole † |   |   |   |            |   |   |   |          |   |       |   |            |   |            |            | Catalog Number                                         | Description |
|----------|----------|----------------------------|---|---|---|------------|---|---|---|----------|---|-------|---|------------|---|------------|------------|--------------------------------------------------------|-------------|
|          |          | AK-2-75                    |   |   |   |            |   |   |   | AK-2A-75 |   |       |   | AK-3-75    |   | AK-3A-75   |            |                                                        |             |
|          |          |                            |   |   |   |            |   |   |   |          |   |       |   | AK-4-75    |   | AK-4A-75   |            |                                                        |             |
|          |          | Manual                     |   |   |   | Electrical |   |   |   | Man.     |   | Elec. |   | Man. Elec. |   | Man. Elec. |            |                                                        |             |
| Δ        | -2       | -3                         | 4 | Δ | 1 | 2          | 3 | 4 | Δ | -1       | Δ | -1    | Δ | Δ          | Δ | Δ          |            |                                                        |             |
| 1        | 1        | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 195A8807G1 | Base for pole unit (includes Ref. 2)                   |             |
| 1        | 1        | -                          | - | - | - | 1          | - | - | - | -        | - | -     | - | -          | - | -          | 256C751P1  | Base for pole unit                                     |             |
| †        | 2        | 1                          | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 372A440P1  | Spacer for base                                        |             |
| 1        | 3        | -                          | - | - | - | 1          | - | - | - | -        | - | -     | - | -          | - | -          | 6414521G1  | Upper stud, horizontal (stationary, AC)                |             |
|          |          | -                          | - | - | - | 1          | - | - | - | -        | - | -     | - | -          | - | -          | 276B174G1  | Upper stud, horizontal (stationary, DC)                |             |
|          |          | -                          | - | - | - | 1          | - | - | - | -        | - | -     | - | -          | - | -          | 6414521G2  | Upper stud, vertical (stationary, AC)                  |             |
|          |          | -                          | - | - | - | 1          | - | - | - | -        | - | -     | - | -          | - | -          | 276B174G2  | Upper stud, vertical (stationary, DC)                  |             |
|          |          | -                          | - | - | - | 1          | - | - | - | -        | - | -     | - | -          | - | -          | 6414522G1  | Upper stud (drawout, AC)                               |             |
|          |          | -                          | - | - | - | 1          | - | - | - | -        | - | -     | - | -          | - | -          | 6414543G1  | Upper stud (drawout, DC)                               |             |
|          |          | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | - | -     | - | -          | 1 | 1          | 293B207G1  | Upper stud (stationary, AC and DC)                     |             |
|          |          | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 291B967G1  | Upper stud (drawout, AC and DC)                        |             |
| 1        | 4        | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 293B225G1  | Upper stud head (AC)                                   |             |
|          |          | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | - | -          | 291B969G1  | Upper stud head (DC)                                   |             |
| 1        | 5        | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 293B223P3  | Spacer                                                 |             |
| 1        | 6        | 1                          | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 452A542P1  | Block, AC                                              |             |
|          |          | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | - | -     | - | -          | - | -          | 449A996P3  | Block, DC                                              |             |
|          |          | -                          | - | - | - | -          | - | - | - | -        | 1 | 1     | 1 | 1          | - | -          | 449A996P2  | Block, DC                                              |             |
| 1        | 7        | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 449A994P3  | Stop, AC                                               |             |
|          |          | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 293B223P1  | Stop, DC                                               |             |
|          |          | -                          | - | - | - | 1          | - | - | - | -        | - | -     | - | -          | - | -          | 412A444P1  | Stop, AC                                               |             |
|          |          | -                          | - | - | - | 1          | - | - | - | -        | - | -     | - | -          | - | -          | 412A444P3  | Stop, DC                                               |             |
| 1        | *8       | -                          | 3 | 3 | 3 | -          | - | 3 | 3 | 3        | 3 | 3     | 3 | 3          | 3 | 3          | 295B408G3  | Stationary arcing contact, AC                          |             |
|          |          | 5                          | 5 | 5 | 5 | -          | 5 | 5 | 5 | 5        | 5 | 5     | 5 | 5          | - | -          | 295B408G3  | Stationary arcing contact, DC                          |             |
|          |          | -                          | - | - | - | 3          | - | - | - | -        | - | -     | - | -          | - | -          | 6203966G1  | Stationary arcing contact, AC                          |             |
|          |          | -                          | - | - | - | 5          | - | - | - | -        | - | -     | - | -          | - | -          | 6203966G1  | Stationary arcing contact, DC                          |             |
|          |          | 3                          | - | - | - | -          | 3 | - | - | -        | - | -     | - | -          | - | -          | 295B408G1  | Stationary arcing contact, AC or DC                    |             |
| 1        | 9        | 1                          | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 6404793P2  | Pivot pin for stationary arcing contact, AC            |             |
|          |          | 1                          | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | - | -          | 6404793P1  | Pivot pin for stationary arcing contact, DC            |             |
| 1        | 10       | 3                          | 3 | 3 | 3 | 3          | 3 | 3 | 3 | 3        | 3 | 3     | 3 | 3          | 3 | 3          | 6447046P1  | Spring guide for stationary arcing contact springs, AC |             |
|          |          | 5                          | 5 | 5 | 5 | 5          | 5 | 5 | 5 | 5        | 5 | 5     | 5 | -          | - | -          | 6447046P1  | Spring guide for stationary arcing contact springs, DC |             |
| 1        | *11      | 3                          | 3 | 3 | 3 | 3          | 3 | 3 | 3 | 3        | 3 | 3     | 3 | 3          | 3 | 3          | 6509858P1  | Spring for stationary arcing contacts (outer) AC       |             |
|          |          | 5                          | 5 | 5 | 5 | 5          | 5 | 5 | 5 | 5        | 5 | 5     | 5 | -          | - | -          | 6509858P1  | Spring for stationary arcing contacts (outer) DC       |             |
| 1        | *12      | 3                          | 3 | 3 | 3 | 3          | 3 | 3 | 3 | 3        | 3 | 3     | 3 | 3          | 3 | 3          | 6509859P1  | Spring for stationary arcing contacts (inner) AC       |             |
|          |          | 5                          | 5 | 5 | 5 | 5          | 5 | 5 | 5 | 5        | 5 | 5     | 5 | -          | - | -          | 6509859P1  | Spring for stationary arcing contacts (inner) DC       |             |
| 1        | 13       | 1                          | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1          | 1 | 1          | 433A319P1  | Leaf spring for stationary arcing contacts, AC         |             |

† To determine quantity required per breaker, multiply by number of poles (2 or 3).

Δ Original breaker had no suffix letter or numeral.

† Not shown.

\* Recommended for stock for normal maintenance.



(PHOTO 8035299)

Fig. 2. Back frame assembly for Type AK-2-75 breaker, front view.

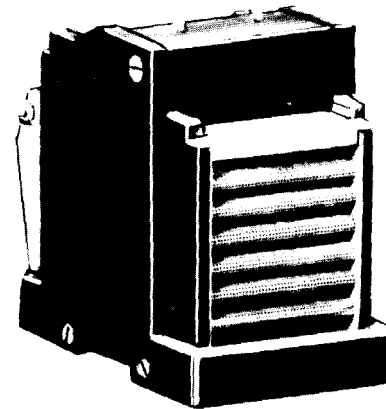


Fig. 3. Arc quencher.

| Fig. No. | Ref. No. | Number Required per Pole † |    |    |    |            |    |    |    |          |    |       |    |         |       |          |       | Catalog Number | Description                                        |                                                |
|----------|----------|----------------------------|----|----|----|------------|----|----|----|----------|----|-------|----|---------|-------|----------|-------|----------------|----------------------------------------------------|------------------------------------------------|
|          |          | AK-2-75                    |    |    |    |            |    |    |    | AK-2A-75 |    |       |    | AK-3-75 |       | AK-3A-75 |       |                |                                                    |                                                |
|          |          |                            |    |    |    |            |    |    |    |          |    |       |    | AK-4-75 |       | AK-4A-75 |       |                |                                                    |                                                |
|          |          | Manual                     |    |    |    | Electrical |    |    |    | Man.     |    | Elec. |    | Man.    | Elec. | Man.     | Elec. |                |                                                    |                                                |
| Δ        | -2       | -3                         | 4  | Δ  | 1  | 2          | 3  | 4  | Δ  | -1       | Δ  | -1    | Δ  | Δ       | Δ     | Δ        | Δ     |                |                                                    |                                                |
| 1        | 14       | 1                          | 1  | 1  | 1  | -          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 1              | 433A319P2                                          | Leaf spring for stationary arcing contacts, DC |
|          |          | 1                          | 1  | 1  | 1  | -          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 1              | 459A373P1                                          | Insulation for stationary arcing contacts, AC  |
|          |          | 1                          | 1  | 1  | 1  | -          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 1              | 459A373P2                                          | Insulation for stationary arcing contacts, DC  |
|          |          | -                          | -  | -  | -  | 1          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | -              | 6555406P2                                          | Insulation for stationary arcing contacts, AC  |
| 1        | 15       | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 6555406P1      | Insulation for stationary arcing contacts, DC      |                                                |
| 1        | 16       | 2                          | 2  | 2  | 2  | -          | 2  | 2  | 2  | 2        | 2  | 2     | 2  | 2       | 2     | 2        | 2     | 6203981P8      | Pivot pin for stationary main contacts             |                                                |
| 1,2      | *17      | 5                          | 5  | 5  | 5  | -          | 5  | 5  | 5  | 5        | 5  | 5     | 5  | 5       | 5     | 5        | 5     | 433A320P1      | Leaf spring for stationary main contacts           |                                                |
|          |          | -                          | -  | -  | -  | 5          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 293B221G1      | Stationary main contact                            |                                                |
| 1,2      | *18      | 1                          | 1  | 1  | 1  | -          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 6203979G1      | Stationary main contact                            |                                                |
|          |          | -                          | -  | -  | -  | 1          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 459A385G1      | Stationary intermediate contact (includes barrier) |                                                |
| 1        | 20       | 2                          | 2  | 2  | 2  | -          | 2  | 2  | 2  | 2        | 2  | 2     | 2  | 2       | 2     | 2        | 2     | 6203979G2      | Stationary intermediate contact                    |                                                |
| 1        | *21      | 6                          | 6  | 6  | 6  | -          | 6  | 6  | 6  | 6        | 6  | 6     | 6  | 6       | 6     | 6        | 6     | 459A375G1      | Clip                                               |                                                |
|          |          | -                          | -  | -  | -  | 6          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 6447449P1      | Clip                                               |                                                |
| 1        | *22      | 3                          | 3  | 3  | 3  | 3          | 3  | 3  | 3  | 3        | 3  | 3     | 3  | 3       | 3     | 3        | 3     | 412A0288P1     | Spring for stationary main contact                 |                                                |
| 1        | 23       | 1                          | 1  | 1  | 1  | -          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 6509811P1      | Spring for stationary main contact                 |                                                |
|          |          | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 9921572G2      | Movable arcing contact                             |                                                |
| 1        | 24       | 6                          | 6  | 6  | 6  | 6          | 6  | 6  | 6  | 6        | 6  | 6     | 6  | 6       | 6     | 6        | 6     | 6404753P1      | Movable arcing contact (DC only)                   |                                                |
| 1        | 25       | 2                          | 2  | 2  | 2  | 2          | 2  | 2  | 2  | 2        | 2  | 2     | 2  | 2       | 2     | 2        | 2     | 6447153P1      | Pin for movable arcing contact link, AC            |                                                |
| 1        | 26       | 2                          | 2  | 2  | 2  | -          | 2  | 2  | 2  | 2        | 2  | 2     | 2  | 2       | 2     | 2        | 2     | 6447153P2      | Pin for movable arcing contact link, DC            |                                                |
|          |          | 1                          | 1  | 1  | 1  | -          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 6447153P4      | Pin for movable arcing contact link, AC            |                                                |
|          |          | -                          | -  | -  | -  | 1          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 9921652P1      | Washer                                             |                                                |
| 1        | 27       | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 394A133P9      | Retainer for 3/8 in. pin                           |                                                |
| 1        | 28       | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 275B975P1      | Link for movable arcing contact                    |                                                |
| 1        | 29       | 12                         | 12 | 12 | 12 | 12         | 12 | 12 | 12 | 12       | 12 | 12    | 12 | 12      | 12    | 12       | 12    | 127A6457P1     | Link for movable arcing contact, DC                |                                                |
| 1,2      | *30      | 5                          | 5  | 5  | 5  | -          | 5  | 5  | 5  | 5        | 5  | 5     | 5  | 5       | 5     | 5        | 5     | 383A681P1      | Link for movable arcing contact                    |                                                |
|          |          | -                          | -  | -  | -  | 5          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 383A681P2      | Link for movable arcing contact                    |                                                |
| 2        | *31      | 1                          | 1  | 1  | 1  | -          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 6447741P2      | Insulating tube                                    |                                                |
|          |          | -                          | -  | -  | -  | 1          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 6555600P1      | Pin for side link                                  |                                                |
| 1        | 32       | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 394A133P10     | Retainer for 1/2 in. pins                          |                                                |
| 1        | 33       | 2                          | 2  | 2  | 2  | -          | 2  | 2  | 2  | 2        | 2  | 2     | 2  | 2       | 2     | 2        | 2     | 293B220G1      | Main movable contacts                              |                                                |
|          |          | -                          | -  | -  | -  | 2          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 6203978G1      | Main movable contacts                              |                                                |
| 1        | 34       | 1                          | 1  | 1  | 1  | -          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 293B220G2      | Intermediate movable contact                       |                                                |
|          |          | -                          | -  | -  | -  | 1          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 6203978G2      | Intermediate movable contact                       |                                                |
| 1        | 35       | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 6447192P1      | Pivot pin for main movable contacts                |                                                |
| 1        | 36       | 2                          | 2  | 2  | 2  | -          | 2  | 2  | 2  | 2        | 2  | 2     | 2  | 2       | 2     | 2        | 2     | 6404784P4      | Link assembly for main movable contact             |                                                |
| 1        | 37       | 1                          | 1  | 1  | 1  | -          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 6404784P3      | Link assembly for main movable contact             |                                                |
| 1        | 38       | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 457A624G1      | Side link, right                                   |                                                |
| 1        | 39       | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 175L304G37     | Side link, right                                   |                                                |
|          |          | -                          | -  | -  | -  | 1          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 457A624G2      | Side link, left                                    |                                                |
|          |          | -                          | -  | -  | -  | 1          | -  | -  | -  | -        | -  | -     | -  | -       | -     | -        | -     | 175L304G38     | Side link, left                                    |                                                |
| 1        | 40       | 2                          | 2  | 2  | 2  | 2          | 2  | 2  | 2  | 2        | 2  | 2     | 2  | 2       | 2     | 2        | 2     | 6555628P1      | Block                                              |                                                |
| 1        | 41       | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 6555423P2      | Side link shield pin                               |                                                |
| 1        | 42       | 1                          | 1  | 1  | 1  | 1          | 1  | 1  | 1  | 1        | 1  | 1     | 1  | 1       | 1     | 1        | 1     | 6203981P10     | Center main arcing contact pin                     |                                                |

† To determine quantity required per breaker, multiply by number of poles (2 or 3).

Δ Original breaker had no suffix letter or numeral.

† Not shown.

\* Recommended for stock for normal maintenance.

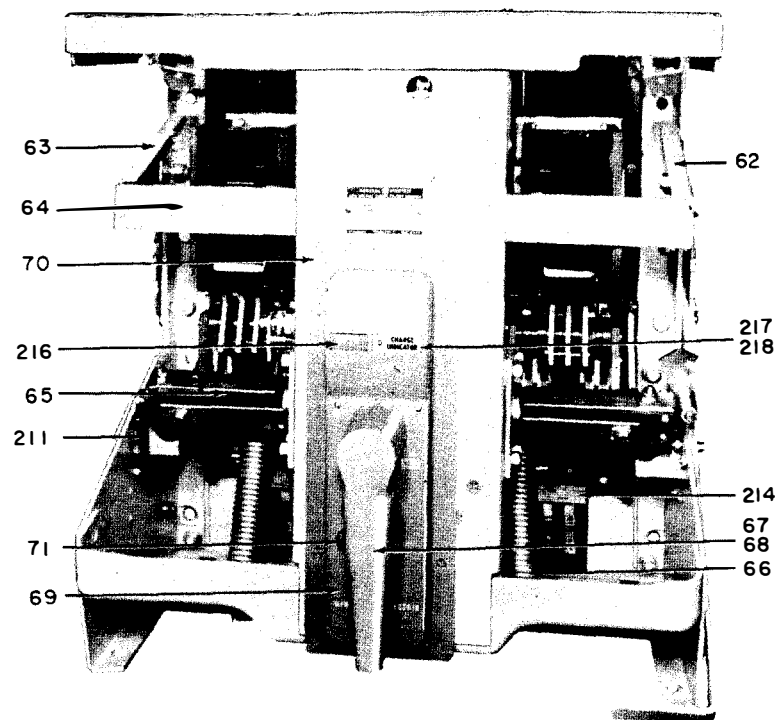


Fig. 4. Type AK-2-75 power circuit breaker.

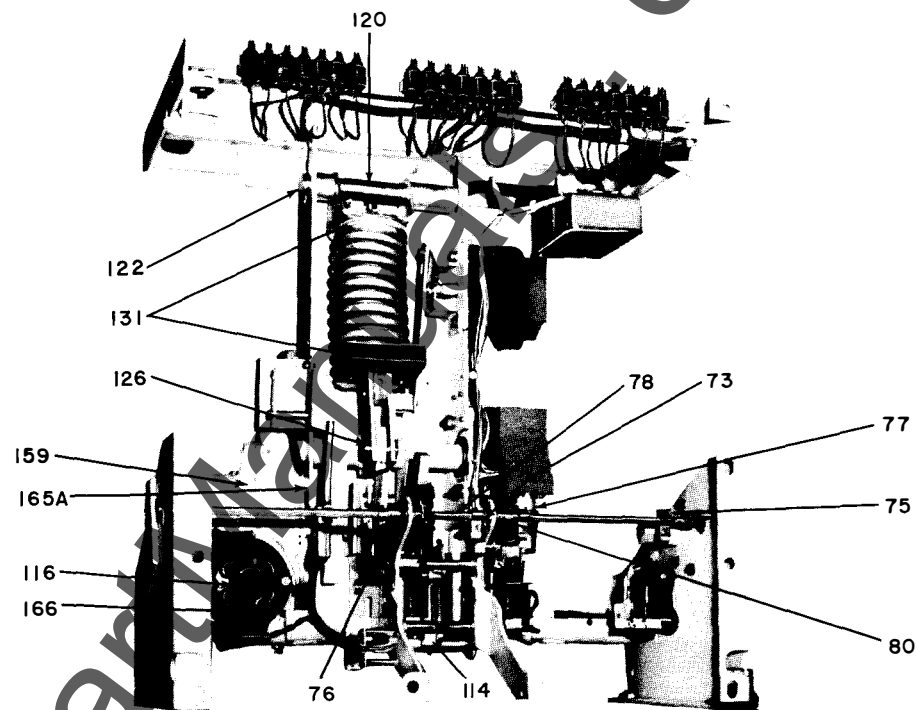


Fig. 5. Front frame assembly for Type AK-3-75 breaker, rear view.

| Fig. No. | Ref. No. | Number Required per Pole † |    |            |    |    |    |      |    |          |    |      |       |      |       |   |   | Catalog Number | Description        |                                         |          |
|----------|----------|----------------------------|----|------------|----|----|----|------|----|----------|----|------|-------|------|-------|---|---|----------------|--------------------|-----------------------------------------|----------|
|          |          | AK-2-75                    |    |            |    |    |    |      |    | AK-2A-75 |    |      |       |      |       |   |   |                |                    | AK-3-75                                 | AK-3A-75 |
|          |          |                            |    |            |    |    |    |      |    |          |    |      |       |      |       |   |   |                |                    | AK-4-75                                 | AK-4A-75 |
|          |          | AK-2-75                    |    |            |    |    |    |      |    | AK-2A-75 |    |      |       |      |       |   |   |                |                    | AK-5-75                                 | AK-5A-75 |
|          |          |                            |    |            |    |    |    |      |    |          |    |      |       |      |       |   |   |                |                    | AK-5-75                                 | AK-5A-75 |
| Manual   |          |                            |    | Electrical |    |    |    | Man. |    | Elec.    |    | Man. | Elec. | Man. | Elec. |   |   |                |                    |                                         |          |
| Δ        | -2       | -3                         | 4  | Δ          | 1  | 2  | 3  | 4    | Δ  | -1       | Δ  | -1   | Δ     | Δ    | Δ     | Δ | Δ |                |                    |                                         |          |
| 1        | 40       | 6                          | 6  | 6          | 6  | 6  | 6  | 6    | 6  | 6        | 6  | 6    | 6     | 6    | 6     | 6 | 6 | 6447773P1      | Washer, AC breaker |                                         |          |
|          |          | 12                         | 12 | 12         | 12 | 12 | 12 | 12   | 12 | 12       | 12 | 12   | 12    | 12   | -     | - | - | -              | 6447773P1          | Washer, DC breaker                      |          |
|          |          | 4                          | 4  | 4          | 4  | 4  | 4  | 4    | 4  | 4        | 4  | 4    | 4     | 4    | 4     | 4 | 4 | 4              | 6447773P2          | Washer, AC breaker                      |          |
|          |          | 8                          | 8  | 8          | 8  | 8  | 8  | 8    | 8  | 8        | 8  | 8    | 8     | 8    | -     | - | - | -              | 6447773P2          | Washer, DC breaker                      |          |
| 1        | 41       | 1                          | 1  | 1          | 1  | 1  | 1  | 1    | 1  | 1        | 1  | 1    | 1     | 1    | 1     | 1 | 1 | 1              | 6203981P12         | Main contact pivot pin                  |          |
| 1        | *42      | 2                          | 2  | 2          | 2  | -  | 2  | 2    | 2  | 2        | 2  | 2    | 2     | 2    | 2     | 2 | 2 | 2              | 433A318P1          | Leaf spring for movable main contact    |          |
|          |          | -                          | -  | -          | -  | 2  | -  | -    | -  | -        | -  | -    | -     | -    | -     | - | - | -              | 6555117P1          | Leaf spring for movable main contact    |          |
| 1        | 43       | 1                          | 1  | 1          | 1  | -  | 1  | 1    | 1  | 1        | 1  | 1    | 1     | 1    | 1     | 1 | 1 | 1              | 449A993P1          | Stop for stationary main contacts       |          |
|          |          | -                          | -  | -          | -  | 1  | -  | -    | -  | -        | -  | -    | -     | -    | -     | - | - | -              | 6414518P2          | Stop for stationary main contacts       |          |
| 1        | 44       | 2                          | 2  | 2          | 2  | -  | 2  | 2    | 2  | 2        | 2  | 2    | 2     | 2    | 2     | 2 | 2 | 2              | 453A116P3          | Spacer for stationary main contact stop |          |
| 1        | 45       | 1                          | 1  | 1          | 1  | 1  | 1  | 1    | 1  | 1        | -  | -    | -     | -    | 1     | 1 | - | -              | 256C724G1          | Horizontal stationary stud              |          |
|          |          | 1                          | 1  | 1          | 1  | 1  | 1  | 1    | 1  | 1        | -  | -    | -     | -    | 1     | 1 | - | -              | 256C724G2          | Vertical stationary stud                |          |
|          |          | 1                          | 1  | 1          | 1  | 1  | 1  | 1    | 1  | 1        | 1  | 1    | 1     | 1    | 1     | 1 | 1 | 1              | 248C754P1          | Stud, drawout                           |          |
| 1        | 46       | 1                          | 1  | 1          | 1  | 1  | 1  | 1    | 1  | 1        | 1  | 1    | 1     | 1    | 1     | 1 | 1 | 1              | 256C850P1          | Lower stud head                         |          |
| 3        | 47       | 1                          | 1  | 1          | 1  | 1  | 1  | 1    | 1  | 1        | 1  | 1    | 1     | 1    | 1     | 1 | 1 | 1              | 238D674G2          | Arc quencher, AC                        |          |
|          |          | 1                          | 1  | 1          | 1  | 1  | 1  | 1    | 1  | 1        | 1  | 1    | 1     | 1    | -     | - | - | -              | 238D674G4          | Arc quencher, DC                        |          |

† To determine quantity required per breaker, multiply by number of poles (2 or 3).

\* Recommended for stock for normal maintenance.

| Fig. No. | Ref. No. | Number Required per Breaker |    |    |   |   |            |   |   |   |   |          |   |       |   |         |   | Catalog Number | Description                                          |          |   |
|----------|----------|-----------------------------|----|----|---|---|------------|---|---|---|---|----------|---|-------|---|---------|---|----------------|------------------------------------------------------|----------|---|
|          |          | AK-2-75                     |    |    |   |   |            |   |   |   |   | AK-2A-75 |   |       |   | AK-3-75 |   |                |                                                      | AK-3A-75 |   |
|          |          | Manual                      |    |    |   |   | Electrical |   |   |   |   | Man.     |   | Elec. |   | Man.    |   |                |                                                      | Elec.    |   |
|          |          | Δ                           | -2 | -3 | 4 | Δ | 1          | 2 | 3 | 4 | Δ | -1       | Δ | -1    | Δ | Δ       | Δ |                |                                                      | Δ        | Δ |
| 14       | 61       | 2                           | 2  | 2  | 2 | 2 | 2          | 2 | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 267B129P1      | Phase barrier                                        |          |   |
| 4        | 62       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | - | -        | - | -     | 1 | 1       | - | 372A275G1      | Lifting bracket, right (pearl gray)                  |          |   |
|          |          | -                           | -  | 1  | 1 | - | -          | - | 1 | 1 | - | -        | - | -     | 1 | 1       | - | 372A275G3      | Lifting bracket, right (sand gray)                   |          |   |
| 4        | 63       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | - | -        | - | -     | 1 | 1       | - | 372A275G2      | Lifting bracket, left (pearl gray)                   |          |   |
|          |          | -                           | -  | 1  | 1 | - | -          | - | 1 | 1 | - | -        | - | -     | 1 | 1       | - | 372A275G4      | Lifting bracket, left (sand gray)                    |          |   |
| 4        | 64       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | - | -        | - | -     | 1 | 1       | - | 372A305P1      | Arc quencher tie bar (pearl gray)                    |          |   |
|          |          | -                           | -  | 1  | 1 | - | -          | - | 1 | 1 | - | -        | - | -     | 1 | 1       | - | 372A305P7      | Arc quencher tie bar (sand gray)                     |          |   |
|          |          | -                           | -  | -  | - | - | -          | - | - | - | 1 | 1        | 1 | 1     | - | -       | 1 | 372A305P5      | Arc quencher tie bar                                 |          |   |
| 4        | 65       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 267B125P1      | Cross bar                                            |          |   |
| 4        | 66       | 2                           | 2  | 2  | 2 | 2 | 2          | 2 | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 6509813P1      | Opening spring                                       |          |   |
| 4        | 67       | 1                           | 1  | 1  | 1 | - | -          | - | - | - | - | -        | - | -     | 1 | -       | - | 6548046P3      | Handle (black)                                       |          |   |
|          |          | -                           | -  | 1  | 1 | - | -          | - | - | - | 1 | 1        | - | -     | 1 | -       | 1 | 669D807P2      | Handle (gray)                                        |          |   |
| 4        | 68       | -                           | -  | 1  | 1 | - | -          | - | - | - | 1 | 1        | - | -     | 1 | -       | 1 | 118B7107G1     | Handle and buffer assembly                           |          |   |
| 4        | 69       | -                           | -  | -  | - | 1 | -          | - | - | - | - | -        | - | -     | - | -       | - | 275B997P1      | Front escutcheon (with closing switch, black)        |          |   |
|          |          | -                           | -  | -  | - | 1 | -          | - | - | - | - | -        | - | -     | - | -       | - | 275B997P2      | Front escutcheon (w/o closing switch, black)         |          |   |
| 4        | 70       | 1                           | 1  | 1  | 1 | - | -          | - | - | - | - | -        | - | -     | - | -       | - | 698C997P1      | Front escutcheon (black)                             |          |   |
|          |          | -                           | -  | 1  | - | - | -          | - | - | - | 1 | -        | - | -     | 1 | -       | 1 | 698C997P5      | Front escutcheon (blue)                              |          |   |
|          |          | -                           | -  | -  | - | - | -          | - | 1 | 1 | - | -        | 1 | 1     | - | 1       | 1 | 805B975P2      | Front escutcheon (blue)                              |          |   |
| 4        | 71       | 1                           | 1  | 1  | 1 | - | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 411A904G5      | Trip button and rod assembly                         |          |   |
|          |          | -                           | -  | -  | - | 1 | -          | - | - | - | - | -        | - | -     | - | -       | - | 411A904G2      | Trip button and rod assembly                         |          |   |
| †        | 72       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 412A139P1      | Trip button spring                                   |          |   |
| 5        | 73       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | - | -        | - | -     | 1 | 1       | - | 6203939P1      | Hand trip paddle                                     |          |   |
|          |          | -                           | -  | -  | - | - | -          | - | - | - | 1 | 1        | 1 | 1     | - | -       | 1 | 6203939P5      | Hand trip paddle                                     |          |   |
| †        | 74       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 6444141P1      | Clamp for hand trip paddle                           |          |   |
| 5        | 75       | 2                           | 2  | 2  | 2 | 2 | 2          | 2 | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 276B250P3      | Trip shaft (outside)                                 |          |   |
| 5        | 76       | 2                           | 2  | 2  | 2 | - | 2          | 2 | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 174V536P1      | Coupling                                             |          |   |
| 5        | 77       | 2                           | 2  | 2  | 2 | - | 2          | 2 | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 127A6493P2     | Dowel pin                                            |          |   |
| 5        | 78       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 276B250P2      | Trip shaft (center)                                  |          |   |
| †        | 79       | 2                           | 2  | 2  | 2 | 2 | 2          | 2 | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 394A133P1      | Retainer for trip shaft                              |          |   |
| 5        | 80       | 2                           | 2  | 2  | 2 | 2 | 2          | 2 | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 377A871P5      | Trip shaft bearing (side sheets and mechanism frame) |          |   |
| †        | 81       | 2                           | 2  | 2  | 2 | 2 | 2          | 2 | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 394A133P16     | Retainer for trip shaft bearing                      |          |   |
| 6        | 82       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 174V531P1      | Pin                                                  |          |   |
| 5        | 83       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 457A681P3      | Spacer                                               |          |   |
| †        | 84       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 457A681P1      | Spacer                                               |          |   |
| 6        | 85       | 6                           | 6  | 6  | 6 | 6 | 6          | 6 | 6 | 6 | 6 | 6        | 6 | 6     | 6 | 6       | 6 | 394A133P10     | Retainer                                             |          |   |
| 6        | 86       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 412A140P1      | Spring                                               |          |   |
| 6        | 87       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 419A366P1      | Prop                                                 |          |   |
| 6        | 88       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 6414743P1      | Cam                                                  |          |   |
| 6        | 89       | 1                           | 1  | 1  | 1 | - | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 457A622G1      | Link assembly                                        |          |   |
|          |          | -                           | -  | -  | - | 1 | -          | - | - | - | - | -        | - | -     | - | -       | - | 175L315G40     | Link assembly                                        |          |   |
| 6        | 90       | 1                           | 1  | 1  | 1 | 1 | 1          | 1 | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 6447099P1      | Pin                                                  |          |   |
| 6        | 91       | 2                           | 2  | 2  | 2 | 2 | 2          | 2 | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 394A133P11     | Retainer                                             |          |   |

Δ Original breaker had no suffix letter or numeral.

† Not shown.

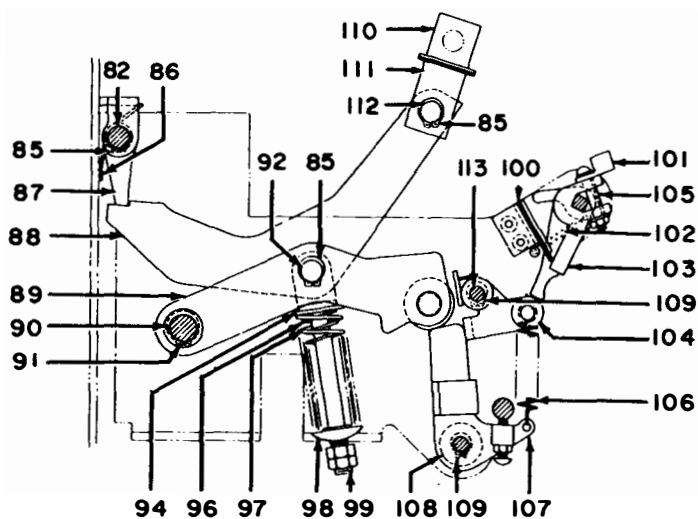


Fig. 6. Manual mechanism assembly.

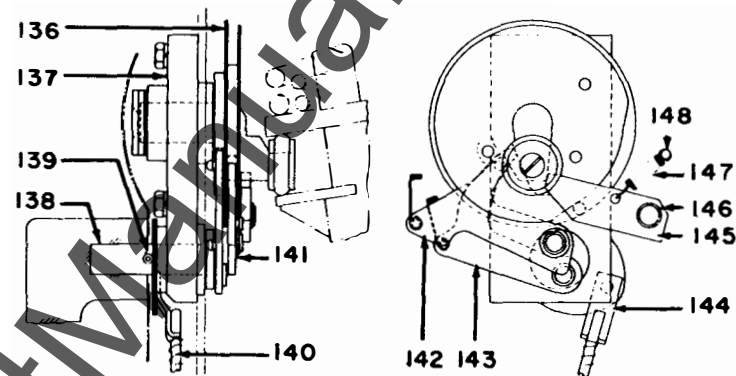


Fig. 7. Manual closing mechanism.

| Fig. No. | Ref. No. | Number Required per Breaker |   |   |   |            |   |   |   |          |   |       |   |         |   |          |            | Catalog Number             | Description |
|----------|----------|-----------------------------|---|---|---|------------|---|---|---|----------|---|-------|---|---------|---|----------|------------|----------------------------|-------------|
|          |          | AK-2-75                     |   |   |   |            |   |   |   | AK-2A-75 |   |       |   | AK-3-75 |   | AK-3A-75 |            |                            |             |
|          |          |                             |   |   |   |            |   |   |   |          |   |       |   | AK-4-75 |   | AK-4A-75 |            |                            |             |
|          |          |                             |   |   |   |            |   |   |   |          |   |       |   | AK-5-75 |   | AK-5A-75 |            |                            |             |
|          |          | Manual                      |   |   |   | Electrical |   |   |   | Man.     |   | Elec. |   | Man.    |   | Elec.    |            |                            |             |
| Δ        | -2       | -3                          | 4 | Δ | 1 | 2          | 3 | 4 | Δ | -1       | Δ | -1    | Δ | Δ       | Δ | Δ        |            |                            |             |
| 6        | 92       | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 6447091P1  | Pin                        |             |
| †        | 93       | 2                           | 2 | 2 | 2 | 2          | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2 | 2        | 148A1932P5 | Spacer for pin Ref. No. 92 |             |
| 6        | 94       | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 6447331P1  | Spring guide (upper)       |             |
| 6        | 96       | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 148A2214P1 | Spring reset (inner)       |             |
| †        | 95       | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | - | -        | 6403393P1  | Spring reset               |             |
| 6        | 97       | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 148A2213P1 | Spring reset (outer)       |             |
| 6        | 98       | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 6447353P1  | Spring guide (lower)       |             |
| 6        | 99       | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 6203914G1  | Spring support assembly    |             |
| 6        | 100      | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 457A627G1  | Buffer assembly            |             |
|          |          | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | - | -        | 433A216G1  | Buffer assembly            |             |
| 6        | 101      | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 383A671G2  | Counterweight              |             |
|          |          | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | - | -        | 394A140P1  | Counterweight              |             |
| 6        | 102      | 1                           | 1 | - | - | 1          | 1 | 1 | - | -        | - | -     | - | -       | - | -        | 412A269P1  | Trip shaft return spring   |             |
|          |          | -                           | - | 1 | 1 | -          | - | - | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 412A234P1  | Trip shaft return spring   |             |
| 6        | 103      | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 848C0487P2 | Latch                      |             |
|          |          | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | - | -        | 433A214G1  | Latch                      |             |
| 6        | 104      | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1 | 1        | 889B0410G1 | Reset latch                |             |

Δ Original breaker had no suffix letter or numeral.

† Not shown.



| Fig. No. | Ref. No. | Number Required per Breaker |   |   |   |   |   |   |   |          |   |         |   |          |   |          |             | Catalog Number                                          | Description |
|----------|----------|-----------------------------|---|---|---|---|---|---|---|----------|---|---------|---|----------|---|----------|-------------|---------------------------------------------------------|-------------|
|          |          | AK-2-75                     |   |   |   |   |   |   |   | AK-2A-75 |   |         |   | AK-3-75  |   | AK-3A-75 |             |                                                         |             |
|          |          |                             |   |   |   |   |   |   |   |          |   |         |   | AK-4-75  |   | AK-4A-75 |             |                                                         |             |
|          |          | AK-5-75                     |   |   |   |   |   |   |   | AK-5A-75 |   | AK-5-75 |   | AK-5A-75 |   |          |             |                                                         |             |
|          |          |                             |   |   |   |   |   |   |   | Man.     |   | Elec.   |   | Man.     |   | Elec.    |             |                                                         |             |
| Δ        | -2       | -3                          | 4 | Δ | 1 | 2 | 3 | 4 | Δ | -1       | Δ | -1      | Δ | Δ        | Δ | Δ        |             |                                                         |             |
| 6        | 105      | -                           | - | - | - | 1 | - | - | - | -        | - | -       | - | -        | - | -        | 9921607G3   | Reset latch                                             |             |
| 6        | 106      | 1                           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 6444916P1   | Latch bolt                                              |             |
| 6        | 107      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 6403348P1   | Spring                                                  |             |
|          |          | -                           | - | - | - | 1 | 1 | 1 | 1 | -        | - | 1       | 1 | -        | 1 | -        | 698C993G1   | Prop                                                    |             |
| 6        | 108      | 2                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2        | 2 | 2       | 2 | 2        | 2 | 2        | 9921596G1   | Prop                                                    |             |
| 6        | 109      | 4                           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4        | 4 | 4       | 4 | 4        | 4 | 4        | 377A871P2   | Prop sh. bearing                                        |             |
| 6        | 110      | 1                           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 394A133P9   | Retainer                                                |             |
| 6        | 111      | 1                           | 1 | 1 | 1 | - | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 6555414P1   | Coupling                                                |             |
|          |          | -                           | - | - | - | 1 | - | - | - | -        | - | -       | - | -        | - | -        | 412A413P3   | Clevis                                                  |             |
| 6        | 112      | 1                           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 412A413P1   | Clevis                                                  |             |
| 6        | 113      | 1                           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 412A405P414 | Pin                                                     |             |
| 5        | 114      | 1                           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 6447744P1   | Pin                                                     |             |
| †        | 115      | 2                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2        | 2 | 2       | 2 | 2        | 2 | 2        | 412A412P2   | Prop stop                                               |             |
| 5        | 116      | #                           | # | 1 | 1 | # | # | # | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 411A984P1   | Screw for prop stop                                     |             |
| †        | 117      | 1                           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 889B0424P10 | Overcurrent device trip paddle                          |             |
| †        | 118      | 1                           | 1 | 1 | 1 | - | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 6447767P1   | Trip shaft stop                                         |             |
|          |          | -                           | - | - | - | 1 | - | - | - | -        | - | -       | - | -        | - | -        | 148A1946P10 | Spacer for upper spring guide assembly pin (right side) |             |
| †        | 119      | -                           | - | - | - | 1 | - | - | - | -        | - | -       | - | -        | - | -        | 148A1946P3  | Spacer for upper spring guide assembly pin (middle)     |             |
| 5        | 120      | 1                           | 1 | 1 | 1 | - | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 6447010P1   | Upper spring guide assembly pin                         |             |
|          |          | -                           | - | - | - | 1 | - | - | - | -        | - | -       | - | -        | - | -        | 6447010P2   | Upper spring guide assembly pin                         |             |
| †        | 121      | 1                           | 1 | 1 | 1 | - | 1 | 1 | 1 | 1        | 1 | 1       | 1 | 1        | 1 | 1        | 148A1946P1  | Spacer for upper spring guide assembly pin (left side)  |             |
| 5        | 122      | 4                           | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 4        | 4 | 4       | 4 | 4        | 4 | 4        | 394A133P4   | Retaining ring                                          |             |
| †        | 123      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 698C996G5   | Pawl spring support (upper)                             |             |
| †        | 124      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 698C996G4   | Pawl spring support (lower)                             |             |
| †        | 125      | 2                           | 2 | 2 | 2 | - | - | - | - | -        | 2 | 2       | - | -        | 2 | -        | 698C996P13  | Pawl spring rollers                                     |             |
| 5        | 126      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 6447032P2   | Lower spring guide assembly pin                         |             |
|          |          | -                           | - | - | - | 1 | 1 | 1 | 1 | 1        | - | 1       | 1 | -        | 1 | -        | 6447032P1   | Lower spring guide assembly pin                         |             |
| †        | 127      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 698C993P4   | Buffer pin                                              |             |
| †        | 128      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 698C993P3   | Buffer support                                          |             |
| †        | 129      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 698C993P5   | Buffer washer                                           |             |
| †        | 130      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 393A993P24  | Buffer stop nut                                         |             |
| 5        | 131      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 889B0408G2  | Closing spring assembly                                 |             |
|          |          | -                           | - | - | - | 1 | 1 | 1 | 1 | 1        | - | 1       | 1 | -        | 1 | -        | 273B569G9   | Closing spring assembly                                 |             |
| †        | 132      | 2                           | 2 | 2 | 2 | - | - | - | - | -        | 2 | 2       | - | -        | 2 | -        | 698C992G5   | Support for crank                                       |             |
| 14       | 133      | -                           | - | - | - | 1 | 1 | 1 | 1 | 1        | - | -       | 1 | 1        | - | 1        | 393A554P1   | Support for crank                                       |             |
| 14       | 134      | 1                           | 1 | 1 | 1 | - | - | - | - | -        | - | -       | - | -        | - | -        | 698C992G4   | Crank (pearl gray)                                      |             |
|          |          | -                           | - | 1 | 1 | - | - | - | - | -        | 1 | 1       | - | -        | 1 | -        | 698C992G10  | Crank (sand gray)                                       |             |
|          |          | -                           | - | - | - | - | - | - | - | -        | - | -       | - | -        | - | -        | 259C615G1   | Crank (pearl gray)                                      |             |
|          |          | -                           | - | - | - | - | 1 | 1 | 1 | 1        | - | -       | - | -        | - | -        | 801B154G2   | Crank (pearl gray)                                      |             |
|          |          | -                           | - | - | - | - | - | - | 1 | 1        | - | -       | 1 | 1        | - | 1        | 801B154G4   | Crank (sand gray)                                       |             |

Δ Original breaker had no suffix letter or numeral.

† Not shown.

# Give breaker Serial No. when ordering.

| Fig. No.  | Ref. No. | Number Required per Breaker |   |   |   |    |   |   |   |          |   |       |   |         |   |          |            | Catalog Number                                                 | Description |
|-----------|----------|-----------------------------|---|---|---|----|---|---|---|----------|---|-------|---|---------|---|----------|------------|----------------------------------------------------------------|-------------|
|           |          | AK-2-75                     |   |   |   |    |   |   |   | AK-2A-75 |   |       |   | AK-3-75 |   | AK-3A-75 |            |                                                                |             |
|           |          |                             |   |   |   |    |   |   |   |          |   |       |   | AK-4-75 |   | AK-4A-75 |            |                                                                |             |
|           |          | AK-5-75                     |   |   |   |    |   |   |   | AK-5A-75 |   |       |   |         |   |          |            |                                                                |             |
|           |          |                             |   |   |   |    |   |   |   | Man.     |   | Elec. |   | Man.    |   | Elec.    |            |                                                                |             |
| Δ         | -2       | -3                          | 4 | Δ | 1 | 2  | 3 | 4 | Δ | -1       | Δ | -1    | Δ | Δ       | Δ | Δ        |            |                                                                |             |
| 14        | 135      | -                           | - | - | 1 | 1  | 1 | 1 | 1 | -        | - | 1     | 1 | -       | 1 | 1        | 393A796P3  | Bearing                                                        |             |
| 7         | 136      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C987G1  | Ratchet assembly                                               |             |
| 7         | 137      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C988G1  | Support assembly                                               |             |
| 7         | 138      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C990G1  | Shaft assembly                                                 |             |
| 7         | 139      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 394A137P12 | Roll pin                                                       |             |
| 7         | 140      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 127A8306P1 | Spring                                                         |             |
| 7         | 141      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 394A133P28 | Retainer                                                       |             |
| 7         | 142      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C985G1  | Pawl with spring (rear)                                        |             |
| 7         | 143      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C985G2  | Pawl with spring (front)                                       |             |
| 7         | 144      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 846C817G1  | Spring arm                                                     |             |
| 7         | 145      | -                           | - | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C991G4  | Prop                                                           |             |
|           |          | 1                           | 1 | - | - | -  | - | - | - | -        | - | -     | - | -       | - | -        | 698C991G3  | Prop                                                           |             |
| 7         | 146      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 394A933P3  | Retainer                                                       |             |
| 7         | 147      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 412A280P1  | Prop spring                                                    |             |
| 7         | 148      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C991P10 | Pin                                                            |             |
| 8         | 149      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C996G1  | Indicator (when ordering indicator include label Ref. No. 158) |             |
| 8         | 150      | 2                           | 2 | 2 | 2 | -  | - | - | - | 1        | 1 | -     | - | 2       | - | 2        | 394A137P11 | Roll pin                                                       |             |
| 8         | 151      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C995P2  | Bearing                                                        |             |
| 8         | 152      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 127A6493P3 | Rod                                                            |             |
| 8         | 153      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C995P14 | Tube                                                           |             |
| 8         | 154      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 412A267P1  | Spring                                                         |             |
| 8         | 155      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | -       | - | -        | 698C995G1  | Indicator lever assembly                                       |             |
| 8         | 155      | -                           | - | - | - | -  | - | - | - | -        | - | -     | - | 1       | - | 1        | 698C995G3  | Indicator lever assembly                                       |             |
| 8         | 156      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 412A0292P1 | Spring                                                         |             |
| 8         | 157      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 698C995G2  | Indicator crank assembly                                       |             |
| 8         | 158      | 1                           | 1 | 1 | 1 | -  | - | - | - | 1        | 1 | -     | - | 1       | - | 1        | 259C608P3  | Open-close label                                               |             |
| 5, 14, 15 | 159      | -                           | - | - | - | ** | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 177L362G2  | Reduction gear unit assembly (standard)                        |             |
|           |          | -                           | - | - | - | -  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 177L362G3  | Reduction gear unit assembly (quick close)                     |             |
| 9         | 160      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 6447398P1  | Plug                                                           |             |
| 9         | 161      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 393A992P1  | "O" ring for plug                                              |             |
| 9         | 162      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 6509871P1  | Spring for ratchet pin                                         |             |
| 9         | 163      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 372A283P1  | Ratchet pin                                                    |             |
| †         | 164      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 393A991P1  | Lubricant for gear box (4 oz.)                                 |             |
| †         | 165      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 6447101P1  | Gasket between gear housing and motor                          |             |
| 5         | 165A     | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 6447102P1  | Gasket between gear housing and end plate                      |             |
| 5         | 166      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 5P66MA6    | Motor, 115 volts, 25, 50, 60 cycles and 125 volt DC            |             |
|           |          | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 5P66MA7    | Motor, 208-230 volts, 25, 50, 60 cycles and 250 volt DC        |             |
| 10        | 167      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 192A7153P8 | Cut-off switch (G)                                             |             |
| 10        | 168      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 174V521P1  | Cut-off switch insulation                                      |             |
| 10        | 169      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 192A7153P7 | Cut-off switch (F)                                             |             |
| 10        | 170      | -                           | - | - | - | 1  | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | 371A235P1  | Cut-off switch cover                                           |             |

Δ Original breaker had no suffix letter or numeral.

† Not shown.

\*\* For AK-2-75 order one each Cat. No. 177L362G2 reduction gear unit assembly, 452A561P1 and 452A561P2 spacers.

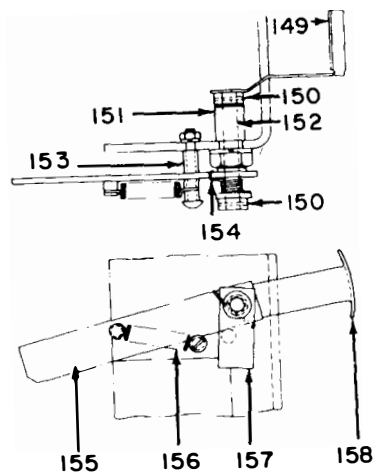


Fig. 8. Manual indicator assembly.

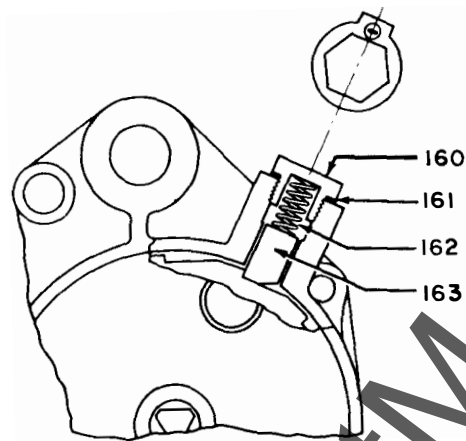


Fig. 9. Section of gear box.

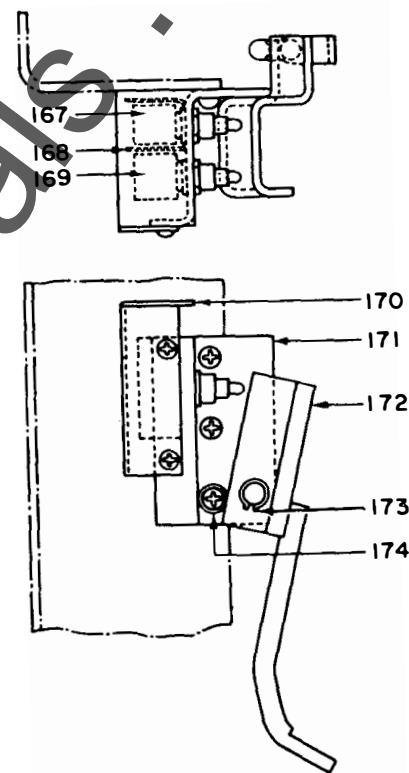


Fig. 10. Motor cut-off switch.

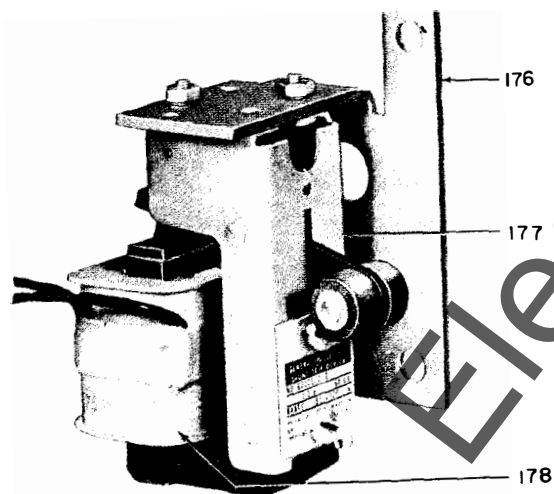


Fig. 11. Shunt trip, Ref. No. 177.

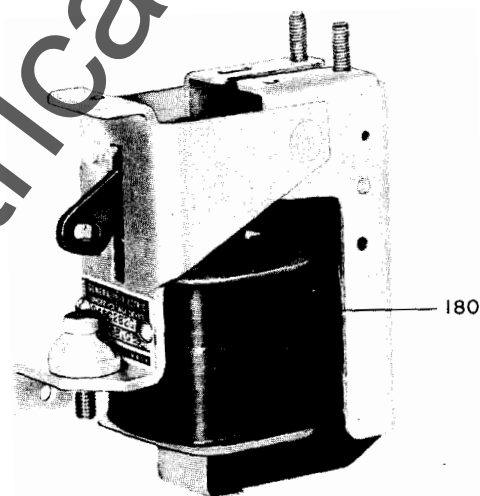


Fig. 12. Static time delay undervoltage device, Ref. No. 181

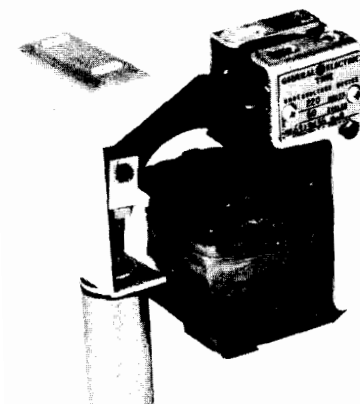


Fig. 12A. Oil-displacement type time-delay undervoltage tripping device.

## TYPE AK POWER CIRCUIT BREAKERS

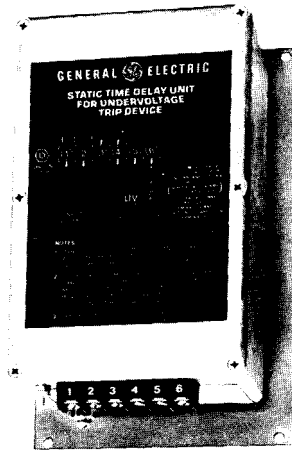


Fig. 13. Static timing device, Ref. No. 182.

TABLE A

| Volts | Hertz | *Closing Relay<br>Not used on<br>quick close<br>breakers | Shunt Trip Device                                                     |                                | Instantaneous Undervoltage Device        |                                | Time Delay Undervoltage Device                            |                            |
|-------|-------|----------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------|------------------------------------------|--------------------------------|-----------------------------------------------------------|----------------------------|
|       |       |                                                          | Complete<br>with Coil<br>(less mounting)<br>Reference 177,<br>Fig. 11 | *Coil Only<br>Reference<br>178 | Complete<br>with Coil<br>(less mounting) | *Coil Only<br>Reference<br>180 | Complete<br>with Coil<br>(less mounting)<br>Reference 181 | Coil Only<br>Reference 180 |
| 24    | DC    | -----                                                    | 139C4378G1                                                            | 6275081G55                     | 568B309G1                                | 6275081G15                     | -----                                                     | -----                      |
| 48    | DC    | -----                                                    | 139C4378G3                                                            | 6275081G28                     | 568B309G2                                | 6275081G9                      | -----                                                     | -----                      |
| 125   | DC    | 12HGA11H52                                               | 139C4378G4                                                            | 6275081G29                     | 568B309G3                                | 6275081G18                     | 568B309G5                                                 | 6275081G61                 |
| 250   | DC    | 12HGA11H51                                               | 139C4378G5                                                            | 6275081G30                     | 568B309G4                                | 6275081G19                     | 568B309G6                                                 | 6275081G59                 |
| 70    | 60    | -----                                                    | 139C4378G6                                                            | 6275081G62                     | -----                                    | -----                          | -----                                                     | -----                      |
| 120   | 60    | 12HGA11H70                                               | 139C4378G7                                                            | 6275081G25                     | 568B309G7                                | 6275081G26                     | -----                                                     | -----                      |
| 120   | 50    | 12HGA11H74                                               | 139C4378G8                                                            | 6275081G56                     | 568B309G8                                | 6275081G4                      | -----                                                     | -----                      |
| 208   | 60    | 12HGA11H71                                               | 139C4378G10                                                           | 6275081G26                     | 568B309G10                               | 6275081G27                     | 568B309G24                                                | 6275081G59                 |
| 208   | 50    | 12HGA11H75                                               | 139C4378G11                                                           | 6275081G26                     | 568B309G11                               | 6275081G12                     | 568B309G24                                                | 6275081G59                 |
| 240   | 60    | 12HGA11H71                                               | 139C4378G13                                                           | 6275081G26                     | 568B309G13                               | 6275081G7                      | 568B309G24                                                | 6275081G59                 |
| 240   | 50    | 12HGA11H75                                               | 139C4378G14                                                           | 6275081G26                     | 568B309G14                               | 6275081G12                     | 568B309G24                                                | 6275081G59                 |
| 380   | 50    | -----                                                    | 139C4378G17                                                           | 6275081G27                     | 568B309G17                               | 6275081G31                     | -----                                                     | -----                      |
| 480   | 60    | -----                                                    | 139C4378G18                                                           | 6275081G27                     | 568B309G18                               | 6275081G31                     | -----                                                     | -----                      |
| 480   | 50    | -----                                                    | 139C4378G19                                                           | 6275081G4                      | 568B309G19                               | 6275081G3                      | -----                                                     | -----                      |
| 575   | 60    | -----                                                    | 139C4378G21                                                           | 6275081G7                      | 568B309G21                               | 6275081G20                     | -----                                                     | -----                      |
| 575   | 50    | -----                                                    | 139C4378G22                                                           | 6275081G29                     | 568B309G22                               | 6275081G8                      | -----                                                     | -----                      |

NOTE: The static time undervoltage device (Fig. 12, Ref. 181) when used in combination with the static timing device (Fig. 13, Ref. 182) and a slight modification of breaker wiring will replace the older design oil-displacement type time delay undervoltage device shown in Fig. 12A.

TABLE B

## CLOSING RELAYS AND COILS FOR QUICK CLOSE BREAKERS

Quick close breakers are identified by the letter "S" following the breaker type (i. e., AK-2A-100S-1)

| Rating |       | Catalog Number  |              |                            |                                  |
|--------|-------|-----------------|--------------|----------------------------|----------------------------------|
| Volts  | Hertz | "X" Relay       |              | **"W" Relay,<br>Complete δ | *Closing Solenoid,<br>Complete δ |
|        |       | Relay, Complete | *Coil, Only  |                            |                                  |
| 125    | D-C   | 192A9770P2      | 116B7197P203 | 192A9771P2                 | CR9500B202H3A                    |
| 250    |       | 192A9770P3      | 116B7197P204 | 192A9771P3                 | CR9500B202H4A                    |
| 115    | 50    | 192A9770P5      | 116B7197P206 | 192A9771P4                 | CR9500B102A6A                    |
| 208    |       | 192A9770P7      | 116B7197P209 | 192A9771P5                 | CR9500B102A7A                    |
| 230    |       | 192A9770P9      | 116B7197P212 | 192A9771P6                 | CR9500B102A7A                    |
| 115    | 60    | 192A9770P4      | 116B7197P205 | 192A9771P4                 | CR9500B102A2A                    |
| 208    |       | 192A9770P6      | 116B7197P208 | 192A9771P5                 | CR9500B102A3A                    |
| 230    |       | 192A9770P8      | 116B7197P211 | 192A9771P6                 | CR9500B102A3A                    |

\* Recommended for stock for normal maintenance.  
δ Only complete relay furnished.

| Fig. No. | Ref. No. | Number Required per Breaker |   |   |   |            |   |   |   |          |   |       |   |         |       |          |       | Catalog Number | Description |                                                                 |
|----------|----------|-----------------------------|---|---|---|------------|---|---|---|----------|---|-------|---|---------|-------|----------|-------|----------------|-------------|-----------------------------------------------------------------|
|          |          | AK-2-75                     |   |   |   |            |   |   |   | AK-2A-75 |   |       |   | AK-3-75 |       | AK-4A-75 |       |                |             |                                                                 |
|          |          |                             |   |   |   |            |   |   |   |          |   |       |   | AK-5-75 |       | AK-5A-75 |       |                |             |                                                                 |
|          |          | Manual                      |   |   |   | Electrical |   |   |   | Man.     |   | Elec. |   | Man.    | Elec. | Man.     | Elec. |                |             |                                                                 |
| Δ        | -2       | -3                          | 4 | Δ | 1 | 2          | 3 | 4 | Δ | -1       | Δ | -1    | Δ | Δ       | Δ     | Δ        |       |                |             |                                                                 |
| 10       | 171      | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | 371A233G1   | Cut-off switch mounting bracket                                 |
| 10       | 172      | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | 371A234G1   | Cut-off switch lever bracket                                    |
| 10       | 173      | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | 394A133P9   | Cut-off switch retainer                                         |
| 10       | 174      | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | 6176109P17  | Cut-off switch spacer                                           |
| 14       | 175      | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | -----       | Closing relay (see table A, page 12)                            |
| 11       | 176      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | 449A537P1   | Shunt trip device support                                       |
| 11       | 177      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | -----       | Shunt trip device (see Table A, page 12)                        |
| 11       | 178      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | -----       | Shunt trip coil (see table A, page 12)                          |
| †        | 179      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | 423A380P1   | Undervoltage device support                                     |
| 12       | 180      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | -----       | Undervoltage device coil (see table A, page 12)                 |
| 12       | 181      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | -----       | Time delay undervoltage device (see Table A, page 12)           |
| 13       | 182      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | TAKYUVT-3   | Static timing device, 230 V 60 Hz                               |
| 13       | 182      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | TAKYUVT-1   | Static timing device, 125 V DC                                  |
| 13       | 182      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | TAKYUVT-2   | Static timing device, 250 V DC                                  |
|          |          | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | -----       | Instantaneous undervoltage device AC (see Table A, page 12)     |
| 14       | 183      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | - | -        | 1 | 1     | - | -       | 1     | 1        | -     | -              | 192A9791P2  | Auxiliary switch, 2 stage                                       |
|          |          | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | 192A9791P3  | Auxiliary switch, 3 stage                                       |
|          |          | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | - | -        | 1 | 1     | - | -       | 1     | 1        | -     | -              | 192A9791P5  | Auxiliary switch, 5 stage                                       |
|          |          | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | 192A9791P6  | Auxiliary switch, 6 stage                                       |
| †        | 187      | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | 411A952G1   | Auxiliary switch crank bracket                                  |
| †        | 188      | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | 6555155P1   | Auxiliary switch bracket                                        |
| †        | 189      | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | -     | -        | -     | -              | 273B595G1   | Bracket for breaker without auxiliary switch                    |
| †        | 190      | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | -     | -        | -     | -              | 848C411G1   | Auxiliary switch link assembly (complete assembly must be used) |
|          |          | 1                           | 1 | 1 | 1 | -          | - | - | - | -        | 1 | 1     | - | -       | 1     | -        | 1     | -              | 887B386G1   | Auxiliary switch link assembly                                  |
|          |          | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | 887B386G2   | Auxiliary switch link assembly                                  |
| †        | 195      | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | 127A6463G2  | Auxiliary switch operating rod                                  |
| †        | 192      | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | 1 | 1     | 1 | 1       | 1     | 1        | 1     | 1              | 127A7439P1  | Auxiliary switch coupling                                       |
| †        | 193      | 2                           | 2 | 2 | 2 | -          | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2     | 2        | 2     | 2              | 6076402P203 | Pin for auxiliary switch linkage                                |
| 2        | 194      | 1                           | 1 | 1 | 1 | -          | - | - | - | -        | 1 | 1     | - | -       | 1     | -        | 1     | -              | 698C996G3   | Adjusting plate                                                 |
|          |          | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | 887B387G3   | Adjusting plate                                                 |
| 2        | 195      | 2                           | 2 | 2 | 2 | 2          | 2 | 2 | 2 | 2        | 2 | 2     | 2 | 2       | 2     | 2        | 2     | 2              | 372A320P1   | Adjusting plate                                                 |
| †        | 196      | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | -     | -        | -     | -              | 6555156G1   | Open and close indicator link                                   |
|          |          | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | 6203934P1   | Open and close indicator link                                   |
| 14       | 197      | -                           | - | - | - | -          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | -     | 1        | -     | 1              | 265B268G1   | Open and close indicator                                        |

Δ Original breaker had no suffix letter or numeral.  
† Not shown.

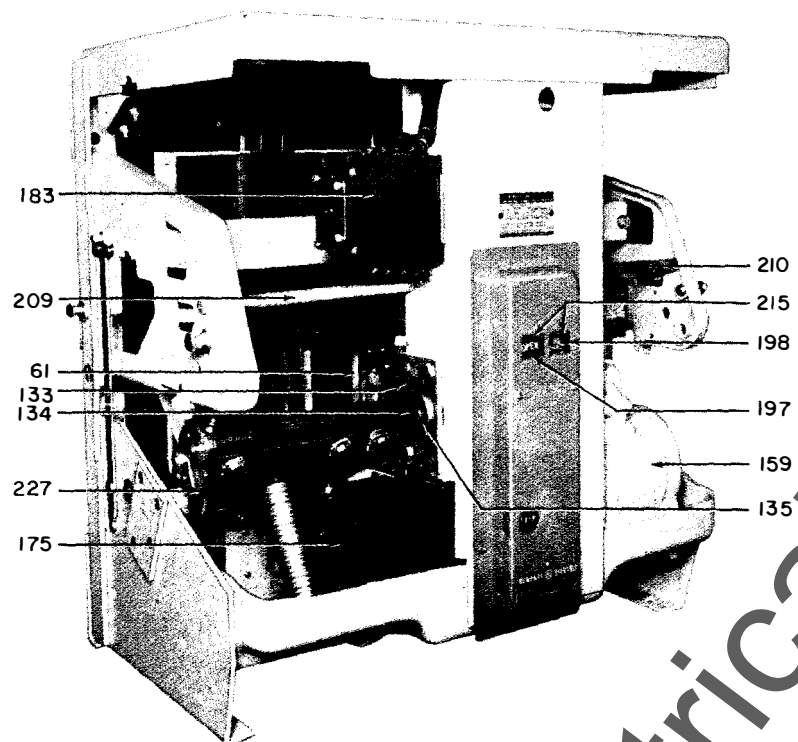


Fig. 14. Type AK-2A-75 power circuit breaker.

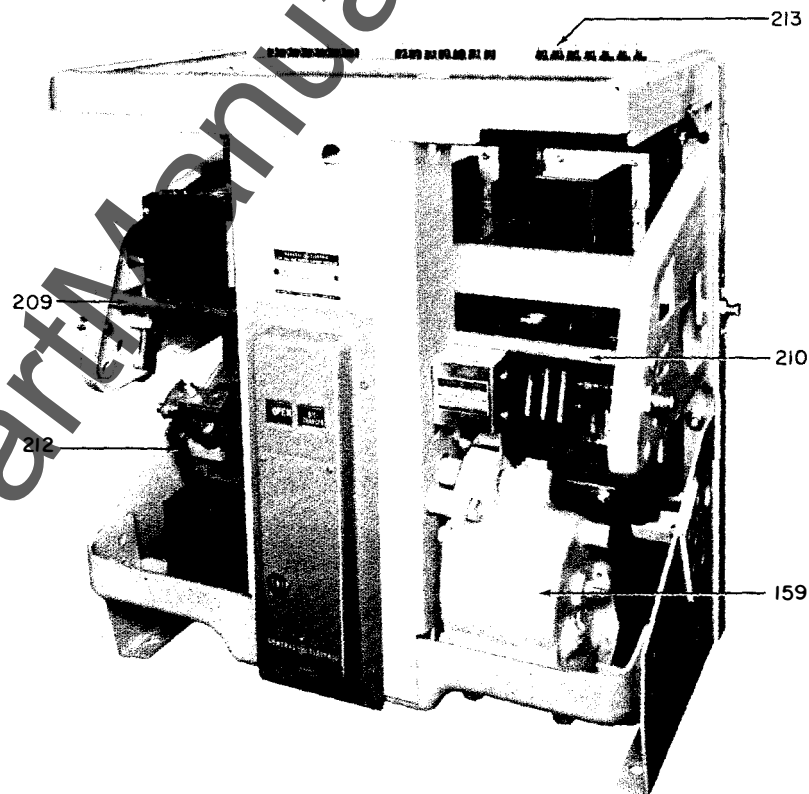


Fig. 15. Type AK-2A-75 power circuit breaker.

| Fig. No. | Ref. No. | Number Required per Breaker |   |   |   |            |   |   |   |          |   |       |   |         |   |          |           | Catalog Number           | Description                                                                     |
|----------|----------|-----------------------------|---|---|---|------------|---|---|---|----------|---|-------|---|---------|---|----------|-----------|--------------------------|---------------------------------------------------------------------------------|
|          |          | AK-2-75                     |   |   |   |            |   |   |   | AK-2A-75 |   |       |   | AK-3-75 |   | AK-3A-75 |           |                          |                                                                                 |
|          |          |                             |   |   |   |            |   |   |   |          |   |       |   | AK-4-75 |   | AK-4A-75 |           |                          |                                                                                 |
|          |          | Manual                      |   |   |   | Electrical |   |   |   | Man.     |   | Elec. |   | Man.    |   | Elec.    |           |                          |                                                                                 |
| Δ        | -2       | -3                          | 4 | Δ | 1 | 2          | 3 | 4 | Δ | -1       | Δ | -1    | Δ | Δ       | Δ | Δ        |           |                          |                                                                                 |
| 14       | 198      | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | - | -        | 265B268G3 | Open and close indicator |                                                                                 |
| †        | 199      | -                           | - | - | - | 1          | 1 | 1 | 1 | -        | - | 1     | 1 | -       | 1 | -        | 1         | 265B268G2                | Charged and discharged indicator                                                |
| †        | 200      | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | - | -        | -         | 174V532P1                | Pin for indicator                                                               |
| †        | 201      | -                           | - | - | - | 3          | 3 | 3 | 3 | -        | - | 3     | 3 | -       | 3 | -        | 3         | 174V561P1                | Pin for indicator                                                               |
| †        | 202      | -                           | - | - | - | 2          | 2 | 2 | 2 | -        | - | 2     | 2 | -       | 2 | -        | 2         | 394A133P7                | Retainer for indicator pin                                                      |
| 17       | 203      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | -        | - | -     | - | 1       | 1 | -        | 1         | 6176109P7                | Spacer for indicator                                                            |
| 17       | 204      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | -        | - | -     | - | 1       | 1 | -        | -         | 365A305P1                | Spring for indicator                                                            |
| 18       | 205      | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | - | -     | - | 1       | 1 | -        | -         | 6293908G185              | Terminal board (4 point)                                                        |
|          |          | -                           | - | - | - | 1          | - | - | - | -        | 1 | 1     | 1 | -       | - | 1        | 1         | 6293908G168              | Terminal board (6 point)                                                        |
|          |          | -                           | - | - | - | -          | - | - | - | -        | - | -     | - | -       | - | -        | -         | 549D466P1                | Drawout racking mechanism assembly                                              |
| 18       | 206      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | - | -     | - | 1       | 1 | -        | -         | 669D0817P1               | Drawout racking mechanism assembly                                              |
| 18       | 207      | 1                           | 1 | 1 | 1 | 1          | 1 | 1 | 1 | 1        | - | -     | - | 1       | 1 | -        | -         | 175L317G4                | Drawout racking mechanism assembly                                              |
| †        | 208      | -                           | - | - | - | -          | - | - | - | -        | 1 | 1     | 1 | 1       | - | -        | 1         | 365A313P1                | Pawl spring                                                                     |
| 14,15    | 209      | -                           | - | - | - | -          | - | - | - | -        | 1 | 1     | 1 | 1       | - | -        | 1         | 412A135P1                | Link spring                                                                     |
| 14,15    | 210      | -                           | - | - | - | -          | - | - | - | -        | 1 | 1     | 1 | 1       | - | -        | 1         | 846C0839P10              | Spring (for racking mechanism)                                                  |
| 4        | 211      | 1                           | 1 | 1 | 1 | -          | 1 | 1 | 1 | 1        | - | -     | - | -       | 1 | 1        | -         | 148A1946P7               | Spacer (left)                                                                   |
|          |          | -                           | - | - | - | 1          | - | - | - | -        | - | -     | - | -       | - | -        | -         | 148A1946P8               | Spacer (right)                                                                  |
|          |          | -                           | - | - | - | -          | - | - | - | -        | - | -     | - | -       | - | -        | -         | 801B138G2                | Anti rebound hook and slider                                                    |
| 15       | 212      | -                           | - | - | - | -          | - | - | - | -        | 1 | 1     | 1 | 1       | - | -        | 1         | 238C191P1                | Anti rebound hook and slider                                                    |
| 15       | 213      | #                           | # | # | # | #          | # | # | # | #        | # | #     | # | #       | # | #        | #         | 801B138G4                | Anti rebound hook and slider                                                    |
| 4        | 214      | #                           | # | # | # | #          | # | # | # | #        | # | #     | # | #       | # | #        | #         | 386A110G2                | Secondary disconnect device (7 pt)                                              |
|          |          |                             |   |   |   |            |   |   |   |          |   |       |   |         |   |          |           | δ                        | Overcurrent trip device (AK-2 and AK-2A only)                                   |
| 14       | 215      | -                           | - | - | - | 2          | 2 | 2 | 2 | 2        | - | -     | 2 | 2       | - | 2        | -         | 174V535P1                | Window                                                                          |
| 4        | 216      | 1                           | 1 | 1 | 1 | -          | - | - | - | -        | 1 | 1     | - | -       | - | 1        | -         | 269C272P8                | Window (open and close)                                                         |
| 4        | 217      | 1                           | 1 | 1 | 1 | -          | - | - | - | -        | 1 | 1     | - | -       | - | 1        | -         | 698C997P2                | Window (charge and discharge) (when ordering window include label Ref. No. 218) |
| 4        | 218      | 1                           | 1 | 1 | 1 | -          | - | - | - | -        | 1 | 1     | - | -       | 1 | -        | 1         | 698C997P4                | Label (charge indicator)                                                        |
| †        | 316      | -                           | - | - | - | 1          | 1 | 1 | 1 | 1        | - | -     | 1 | 1       | - | 1        | -         | 568B386G1                | Maintenance closing handle                                                      |

Δ Original breaker had no suffix letter or numeral.

† Not shown.

# From 1 to 3 depending on accessories.

δ (1) No parts furnished for field installation on EC-1 trip devices.

(2) When replacement trip devices are ordered, it is imperative that order includes complete nameplate reading of the breaker or breakers involved and, if a contemplated ampere rating change is involved, the order should also include information as to ampere rating, time-current characteristic, and instantaneous trip setting desired. Also specify whether device is to be mounted on left, center or right pole of breaker.

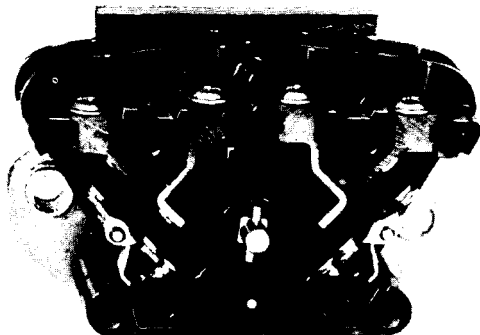


Fig. 16. Type SB-12 auxiliary switch with back removed.  
Ref. No. 183

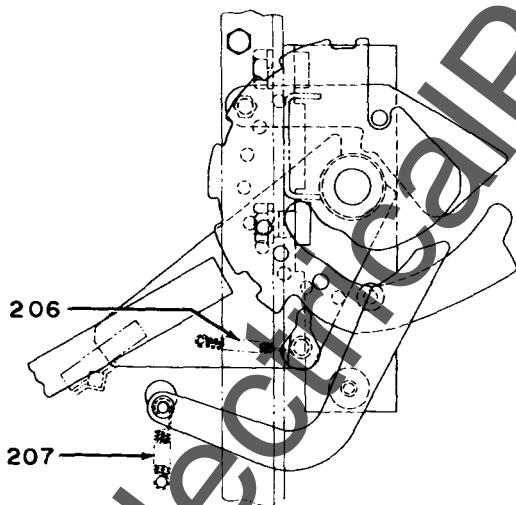


Fig. 18. Drawout racking mechanism, Ref. No. 205.

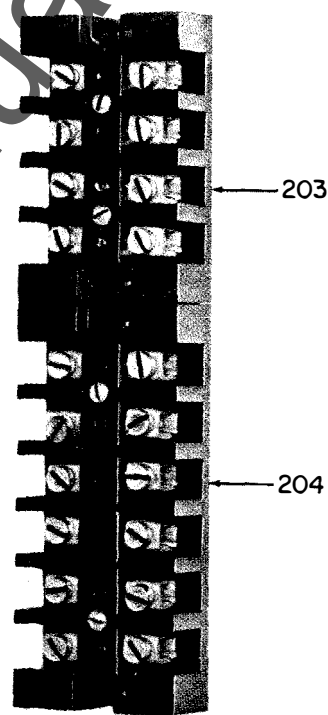


Fig. 17. Terminal boards, without cover.



# TYPE AK POWER CIRCUIT BREAKERS

GEF-4395



Fig. 19. Magnetic coil assembly for Power Sensor, Ref. No. 219.

Magnetic Sensor Coils - Assembly Ref. 219 (Fig.19)

| Ref. |            | Without ground trip | Cat. No.   | Ref. |            | With ground trip | Cat. No.   |
|------|------------|---------------------|------------|------|------------|------------------|------------|
|      |            | Poles               |            |      |            | Poles            |            |
| 219  | AK-3/3A-75 | 2                   | 152C9217G2 | 219  | AK-3/3A-75 | 3                | 152C9217G7 |
| 219  | AK-3/3A-75 | 3                   | 152C9217G3 |      |            |                  |            |



Fig. 20. Power supply unit for Power Sensor.  
Power Supply Unit - Cat. No. 152C9262G10  
for AK-3/3A-75

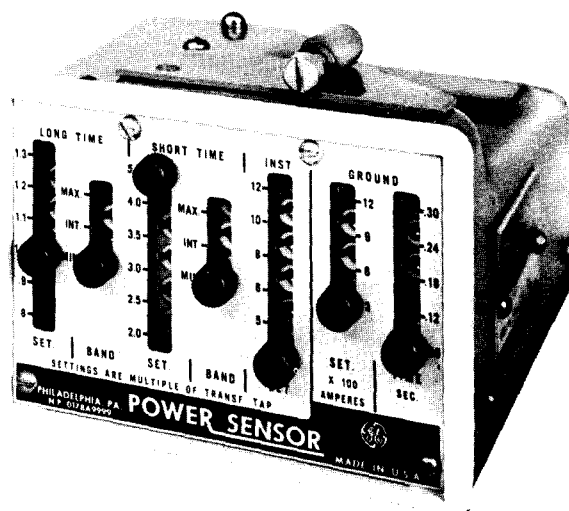


Fig. 21. Power Sensor logic unit, Ref. No. 220.  
for AK-3/3A-75

## TYPE AK POWER CIRCUIT BREAKERS

Type PS-1 Power Sensor Logic Unit Figure 21

| Figure | Reference | Quantity<br>per Three<br>Pole Breaker | Cat. No.   | Description | Trip<br>Characteristics |
|--------|-----------|---------------------------------------|------------|-------------|-------------------------|
| 21     | 220       | 1                                     | 184L410G53 | Type PS-1   | L S <sub>(LO)</sub> I G |
| 21     | 220       | 1                                     | 184L410G56 | Type PS-1   | L S <sub>(HI)</sub> I G |
| 21     | 220       | 1                                     | 184L410G62 | Type PS-1   | L S <sub>(LO)</sub> G   |
| 21     | 220       | 1                                     | 184L410G65 | Type PS-1   | L S <sub>(HI)</sub> G   |
| 21     | 220       | 1                                     | 184L410G68 | Type PS-1   | S <sub>(LO)</sub> I G   |
| 21     | 220       | 1                                     | 184L410G71 | Type PS-1   | S <sub>(HI)</sub> I G   |
| 21     | 220       | 1                                     | 184L410G74 | Type PS-1   | S <sub>(LO)</sub> G     |
| 21     | 220       | 1                                     | 184L410G77 | Type PS-1   | S <sub>(HI)</sub> G     |
| 21     | 220       | 1                                     | 184L410G59 | Type PS-1   | L I G                   |
| 21     | 220       | 1                                     | 184L410G80 | Type PS-1   | I G                     |
| 21     | 220       | 1                                     | 184L410G41 | Type PS-1   | L S <sub>(LO)</sub> I   |
| 21     | 220       | 1                                     | 184L410G42 | Type PS-1   | L S <sub>(HI)</sub> I   |
| 21     | 220       | 1                                     | 184L410G44 | Type PS-1   | L S <sub>(LO)</sub>     |
| 21     | 220       | 1                                     | 184L410G45 | Type PS-1   | L S <sub>(HI)</sub>     |
| 21     | 220       | 1                                     | 184L410G46 | Type PS-1   | S <sub>(LO)</sub> I     |
| 21     | 220       | 1                                     | 184L410G47 | Type PS-1   | S <sub>(HI)</sub> I     |
| 21     | 220       | 1                                     | 184L410G48 | Type PS-1   | S <sub>(LO)</sub>       |
| 21     | 220       | 1                                     | 184L410G49 | Type PS-1   | S <sub>(HI)</sub>       |
| 21     | 220       | 1                                     | 184L410G43 | Type PS-1   | L I                     |
| 21     | 220       | 1                                     | 184L410G50 | Type PS-1   | I                       |

L = Long time-delay element  
 S<sub>(LO)</sub> = Short time-delay element (2 to 5X range)  
 S<sub>(HI)</sub> = Short time-delay element (4 to 10X range)  
 I = Instantaneous trip element  
 G = Ground fault protective element

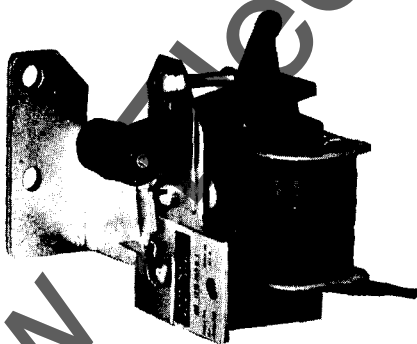


Fig. 22. Magnetic trip device with mounting bracket for Power Sensor.

Magnet Trip Device with Mounting Bracket –  
 Cat. No. 184L369G1  
 for AK-3/3A-75

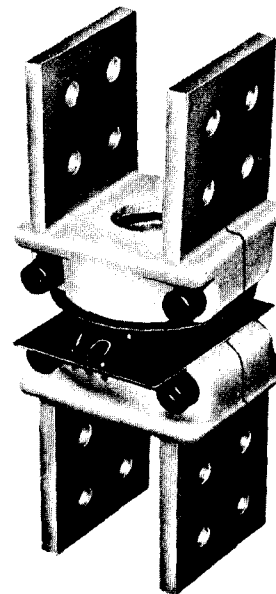


Fig. 23. Neutral ground sensing CT for Power Sensor.

Neutral Ground Sensing CT – Cat. No. 132C2607G1  
 for AK-3/3A-75

# TYPE AK POWER CIRCUIT BREAKERS

GEF-4395



Fig. 24. Type SST solid state programmer, Ref. No. 300, for AK-5/5A-75.



Fig. 25. Type ECS solid state programmer, Ref. No. 301, for AK-4/4A-75.

TABLE D. SOLID STATE PROGRAMMERS

| Trip Elements |                   |   |   |    | Type SST Device<br>Fig. 24, Ref. 300 | Type ECS Device<br>Fig. 25, Ref. 301 |
|---------------|-------------------|---|---|----|--------------------------------------|--------------------------------------|
| L             | S <sub>(LO)</sub> | I | G | 3T | 568B604G61                           | ----                                 |
| L             | S <sub>(HI)</sub> | I | G | 3T | 568B604G33                           | ----                                 |
| L             | S <sub>(LO)</sub> | - | G | 3T | 568B604G60                           | ----                                 |
| L             | S <sub>(HI)</sub> | - | G | 3T | 568B604G31                           | ----                                 |
| L             | -                 | I | G | 3T | 568B604G32                           | ----                                 |
| L             | S <sub>(LO)</sub> | I | G | T  | 568B604G59                           | ----                                 |
| L             | S <sub>(HI)</sub> | I | G | T  | 568B604G30                           | ----                                 |
| L             | S <sub>(LO)</sub> | - | G | T  | 568B604G58                           | ----                                 |
| L             | S <sub>(HI)</sub> | - | G | T  | 568B604G28                           | ----                                 |
| L             | -                 | I | G | T  | 568B604G29                           | ----                                 |
| L             | S <sub>(LO)</sub> | I | - | 2T | 568B604G45                           | 568B604G98                           |
| L             | S <sub>(HI)</sub> | I | - | 2T | 568B604G9                            | 568B604G93                           |
| L             | S <sub>(LO)</sub> | - | - | 2T | 568B604G44                           | 568B604G97                           |
| L             | S <sub>(HI)</sub> | - | - | 2T | 568B604G7                            | 568B604G91                           |
| L             | -                 | I | - | 2T | 568B604G8                            | 568B604G92                           |
| L             | S <sub>(LO)</sub> | I | - | -  | 568B604G43                           | 568B604G41                           |
| L             | S <sub>(HI)</sub> | I | - | -  | 568B604G6                            | 568B604G3                            |
| L             | S <sub>(LO)</sub> | - | - | -  | 568B604G42                           | 568B604G40                           |
| L             | S <sub>(HI)</sub> | - | - | -  | 568B604G4                            | 568B604G1                            |
| L             | -                 | I | - | -  | 568B604G5                            | 568B604G2                            |

L = Long time-delay element  
 S<sub>(LO)</sub> = Short-time delay element (1.75 to 4L range)  
 S<sub>(HI)</sub> = Short-time delay element (3L to 10L range)  
 I = Instantaneous trip element  
 G = Ground fault protective element  
 T = Annunciator target (ground fault indication)

2T = Annunciator targets (overcurrent and short circuit indication)  
 3T = Annunciator targets (overcurrent, short circuit and ground fault indication)

## TYPE AK POWER CIRCUIT BREAKERS



Fig. 26. Current sensor and tap changer for use with SST device, Ref. No. 302.

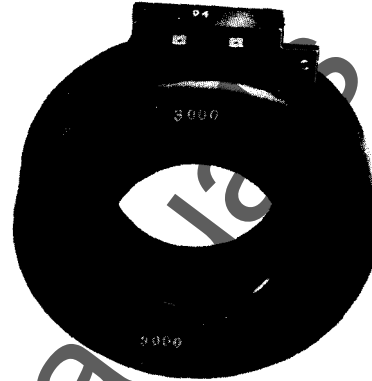


Fig. 27. Current sensor for use with ECS device, Ref. No. 303.

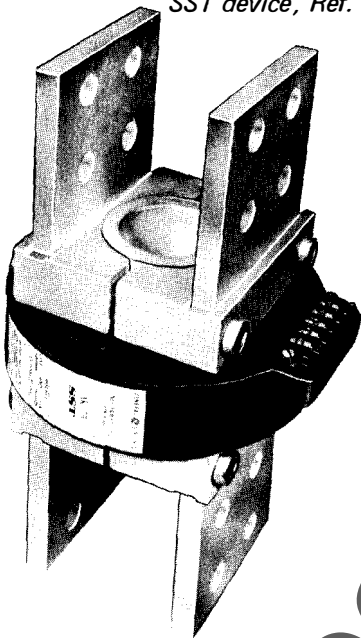


Fig. 28. Neutral ground sensing CT for SST, Ref. No. 304.

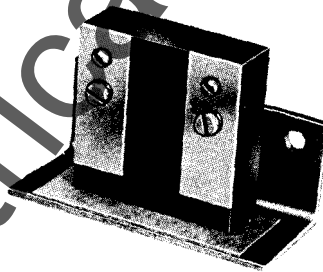


Fig. 29. Breaker mounted neutral disconnect assembly for SST, Ref. No. 305.

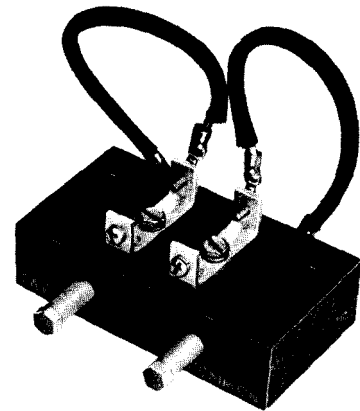


Fig. 30. Housing mounted neutral disconnect assembly for SST, Ref. No. 306.

| Figure | Reference | Quantity per Three Pole Breaker | Cat. No.   | Description                                                |
|--------|-----------|---------------------------------|------------|------------------------------------------------------------|
| 26     | 302       | 3                               | 568B632G4  | Current sensor and tap changer for use with SST programmer |
| 27     | 303       | 3                               | 568B605G25 | Current sensor for use with ECS programmer 1200 amps       |
| 27     | 303       | 3                               | 568B605G26 | Current sensor for use with ECS programmer 1600 amps       |
| 27     | 303       | 3                               | 568B605G27 | Current sensor for use with ECS programmer 2000 amps       |
| 27     | 303       | 3                               | 568B605G28 | Current sensor for use with ECS programmer 3000 amps       |
| 28     | 304       | 1                               | 343L671G61 | Neutral ground sensing CT 1200 to 3000 amps                |
| 29     | 305       | 1                               | 343L650G15 | Neutral disconnect assembly on breaker                     |
| 30     | 306       | 1                               | 343L671G4  | Neutral disconnect assembly on AKD-5 type housing          |
|        | 307       | 1                               | 343L671G5  | Neutral disconnect assembly on AKD type housing            |

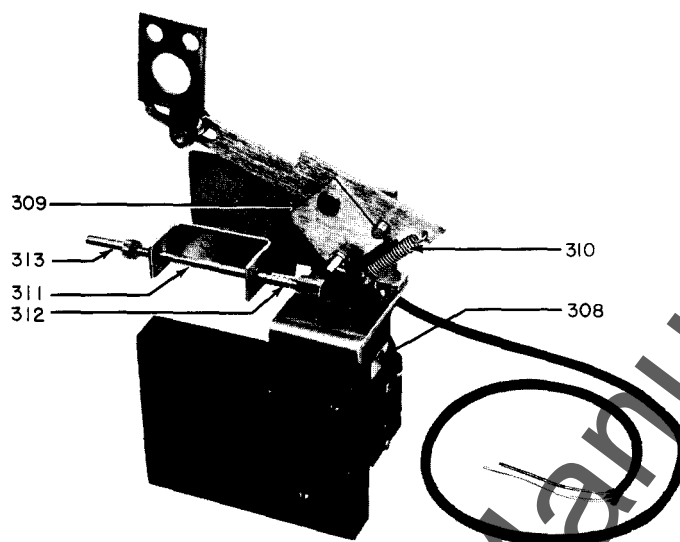


Fig. 31. Flux shift trip device for use with ECS or SST.

| Figure | Reference | Quantity<br>per Three<br>Pole Breaker | Cat. No.     | Description                              |
|--------|-----------|---------------------------------------|--------------|------------------------------------------|
| 31     | 308       | 1                                     | 568B598G1    | Flux shift trip device                   |
| 31     | 309       | 1                                     | 192A9933G1   | Reset mechanism (includes reference 310) |
| 31     | 310       | 1                                     | 192A6990P216 | Spring                                   |
| 31     | 311       | 1                                     | 192A9821G2   | Trip rod                                 |
| 31     | 312       | 1                                     | 192A6990P186 | Spring                                   |
| 31     | 313       | 1                                     | 192A9823P1   | Adjustor                                 |
| †      | 314       | 1                                     | 192A9930P1   | Trip arm on trip shaft                   |
| †      | 315       | 1                                     | 192A9567P1   | Clamp (secures trip arm)                 |

† Not shown.

## NOTES

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