



CONTROLS

# RENEWAL PARTS ORDERING GUIDE

TYPES LA-1600 and LA-1600F

AIR CIRCUIT BREAKER  
WITH  
MANUAL OR ELECTRICAL  
OPERATORS

18X-553

## RENEWAL PARTS ORDERING GUIDE

1. Locate the part or parts to be replaced in one of the drawings in this manual.
2. Identify each part by item number, description and part number. Give drawing figure number in which part is shown.
3. Include breaker type, rating and breaker serial number with your order.
4. Place order with your Allis-Chalmers representative.
5. When ordering relays or other electrical parts, include control voltage (see recommended spare parts list for part numbers).

## ORDERING EXAMPLE

Type LA-1600 Rated Amps 1600 Serial Number H-66679A-4

Mode of Operation: ☒ Electrical ☐ Manual

Renewal Parts Ordering Guide: 18X4559

| Fig | Item | Description | Part Number    | Quantity |
|-----|------|-------------|----------------|----------|
| 1   | 22   | Bearing     | 72-140-054-001 | 1        |
| 3   | 30   | Spring      | 71-141-813-001 | 2        |
| 2   | 53   | Bracket     | 71-142-384-001 | 1        |

If required part is not identified in this manual ----

1. Make a copy of the drawing figure in which the part would appear.
2. Indicate with arrows or other markings location of part.
3. Describe or sketch required part.
4. Include breaker type, rating and breaker serial number with your order.
5. Place order with your Allis-Chalmers representative.

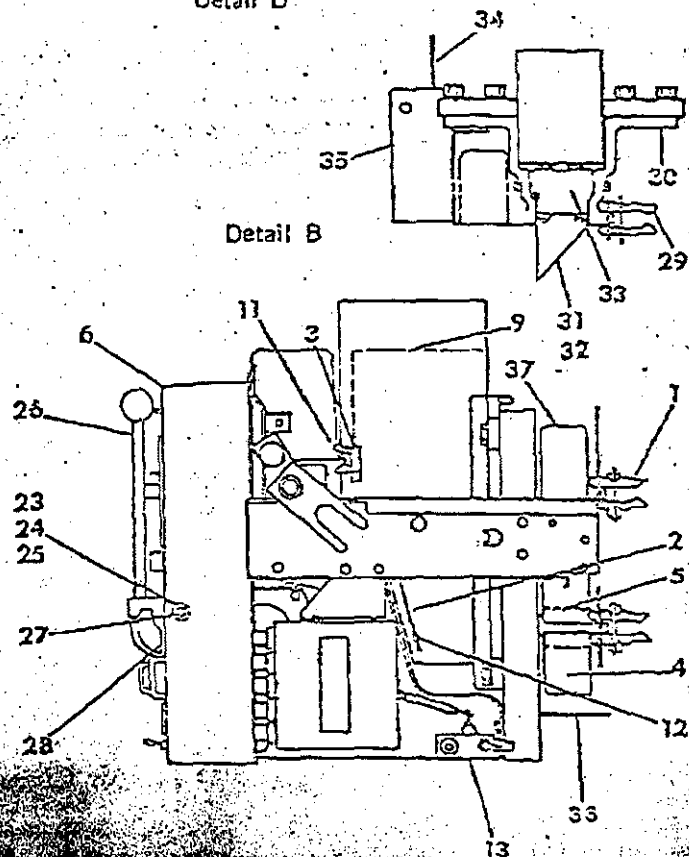
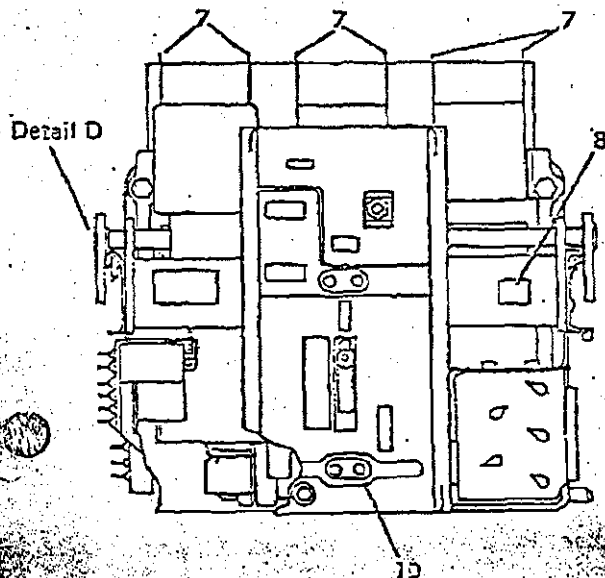
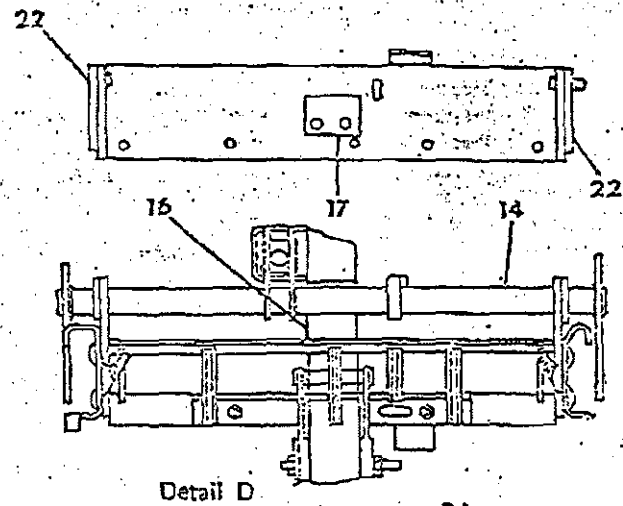
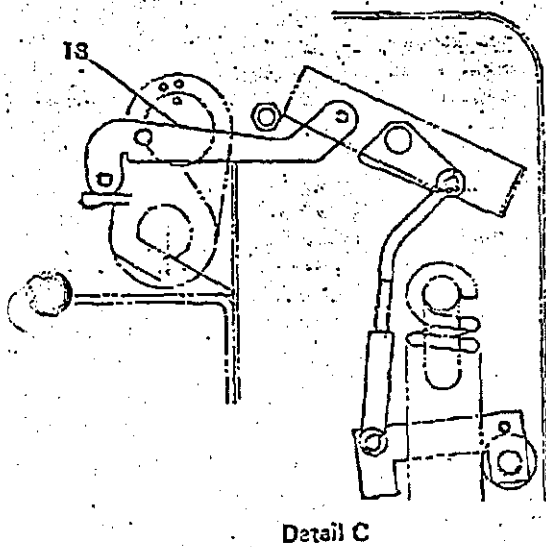
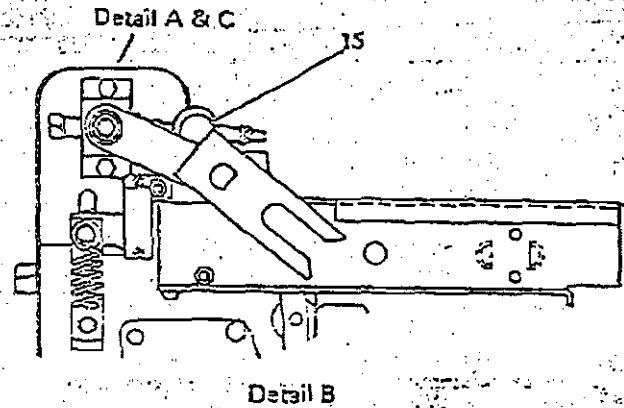
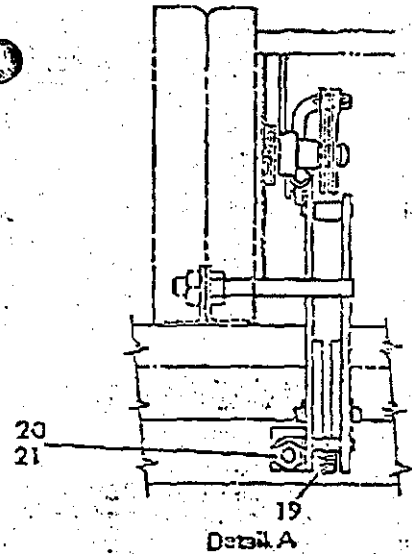
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| Operator Mechanism and Panel Assembly | 18-717-776-520 | 2      | 4    |
| Operator Mechanism Assembly           | 18-465-970-502 | 3      | 6    |

## USAGE CODE TABLE

| Type    | Application | Operator                | Top Level Assembly | Usage Code* |
|---------|-------------|-------------------------|--------------------|-------------|
| LA-1600 | 1600 AMP    | Manual                  | 18-384-475-601     | A           |
| LA-1600 | 1600 AMP    | Electrical              | 18-384-475-602     | B           |
| LA-1600 | 1600 AMP    | Electrical/Manual       | 18-384-475-603     | C           |
| LA-1600 | 1600 AMP    | Manual-Fused            | 18-384-475-611     | D           |
| LA-1600 | 1600 AMP    | Electrical-Fused        | 18-384-475-612     | E           |
| LA-1600 | 1600 AMP    | Electrical/Manual Fused | 18-384-475-613     | F           |

If no usage code appears in the "USAGE" column of the following parts lists, the part is used on all assemblies listed in the figure title.



| ITEM | DESCRIPTION                                        | PART NUMBER    | USAGE | ITEM | DESCRIPTION                                  | PART NUMBER    | USAGE |
|------|----------------------------------------------------|----------------|-------|------|----------------------------------------------|----------------|-------|
| 1    | Contact Finger Assembly                            | 71-240-055-511 |       | 19   | Spring                                       | 00-837-455-025 |       |
| 2    | Barrier                                            | 71-142-103-001 |       | 20   | El Stop                                      | 00-623-039-210 |       |
| 3    | Strap                                              | 71-142-083-002 |       | 21   | Set Screw                                    | 00-617-031-225 |       |
| 4    | Washer                                             | 71-142-107-001 |       | 22   | Bearing                                      | 72-140-034-001 |       |
| 5    | Support (5 per Current Transformer)                | 71-142-108-001 |       | 23   | Closing Cam Assembly (Incl. Item 24 and 25)  | 18-657-346-515 | CF    |
| 6    | Cover Assembly                                     | 18-657-346-537 | A     | 24   | Cam                                          | 72-240-009-001 | CF    |
|      | Cover Assembly                                     | 18-657-346-550 | B     | 25   | Needle Bearing                               | 00-813-113-804 | CF    |
|      | Cover Assembly                                     | 18-657-346-559 | C     | 26   | Closing Handle Assembly                      | 18-657-346-549 | CF    |
|      | Cover Assembly                                     | 18-657-346-545 | D     | 27   | Pin                                          | 71-240-127-021 | CF    |
|      | Cover Assembly                                     | 18-657-346-560 | E     | 28   | Spring                                       | 71-141-761-001 | CF    |
|      | Cover Assembly                                     | 18-637-335-517 | F     | 29   | Contact Finger                               | 71-240-055-513 | DEF   |
| 7    | Barrier                                            | 71-142-088-002 |       | 30   | Bracket                                      | 71-240-590-001 | DEF   |
| 8    | Rating Plate                                       | 15-171-083-004 |       | 31   | Bracket LH                                   | 71-240-594-001 | DEF   |
| 9    | Arc Chute Assembly                                 | 18-657-346-533 |       | 32   | Bracket RH                                   | 71-240-594-002 | DEF   |
| 10   | Screw                                              | 00-615-203-216 |       | 33   | Strap                                        | 71-240-591-001 | DEF   |
| 11   | Wing Nut                                           | 00-629-121-116 |       | 34   | Barrier                                      | 71-142-180-001 | DEF   |
| 12   | Plastic Rivet                                      | 00-671-501-050 |       | 35   | Bar                                          | 71-142-306-001 | DEF   |
| 13   | Operator Mechanism & Panel Assembly                | 18-717-776-520 | AD    | 36   | Static Trip*                                 |                |       |
|      | Operator Mechanism & Panel Assembly (See Figure 2) | 18-384-475-503 | BCDF  | 37   | Tripping Current Transformers (120-250 AMPS) | 71-240-580-501 |       |
| 14   | Shaft Assembly                                     | 72-140-015-504 |       |      | (200-400 AMPS)                               | 71-240-580-502 |       |
| 15   | Trunnion                                           | 72-140-304-001 |       |      | (300-400 AMPS)                               | 71-240-580-503 |       |
| 16   | Block                                              | 72-140-236-001 |       |      | (700-1000 AMPS)                              | 71-240-580-504 |       |
| 17   | Plate                                              | 72-140-287-001 |       |      | (800-1000 AMPS)                              | 71-240-580-505 |       |
| 18   | Arm Assembly                                       | 72-140-258-501 |       |      | (1500 AMPS)                                  | 71-240-580-508 |       |
|      |                                                    |                |       |      | (2000 AMPS)                                  | 71-240-580-509 |       |
|      |                                                    |                |       |      | (1600 AMPS)                                  | 71-240-580-511 |       |
|      |                                                    |                |       |      | (75/150 AMPS)                                | 71-240-580-512 |       |
|      |                                                    |                |       | 38   | Ground Bar                                   | 71-141-925-002 |       |

\* When ordering replacement, give nameplate data, type, time band if applicable (e.g. "MAX", "TNT", or "MIN" as indicated by white dot or "X").

\*\* When ordering trip current transformers, give part number shown on tag, on original current transformer or breaker trip rating.

Figure 1. Air Circuit Breaker

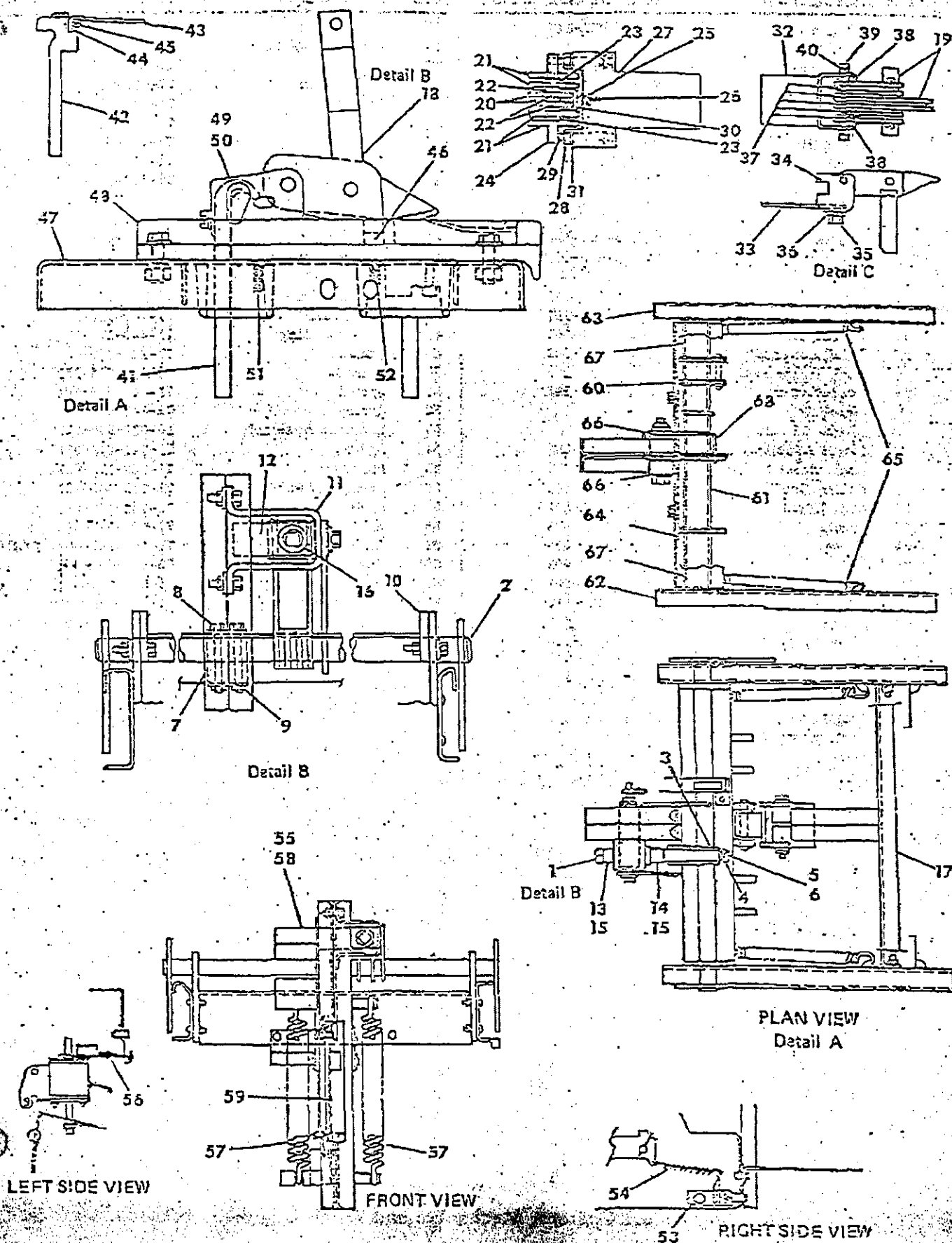


Figure 2. Operator Mechanism and Panel Assembly: (12-717-776-520 (AD))

| ITEM | DESCRIPTION                                                     | PART NUMBER    | USAGE | ITEM | DESCRIPTION                                    | PART NUMBER    | USAGE |
|------|-----------------------------------------------------------------|----------------|-------|------|------------------------------------------------|----------------|-------|
| 1    | Racking Mechanism<br>(Incl. Items 2 thru 15)                    | 18-657-426-879 |       | 33   | Connector                                      | 71-142-850-001 |       |
| 2    | Shaft Assembly                                                  | 72-140-015-504 |       | 34   | Support Assembly                               | 71-142-172-502 |       |
| 3    | Trunnion                                                        | 72-140-004-001 |       | 35   | Cap Screw                                      | 00-611-315-373 |       |
| 4    | Washer                                                          | 72-140-060-001 |       | 36   | Lockwasher                                     | 00-655-017-026 |       |
| 5    | Nut                                                             | 71-142-155-001 |       | 37   | Spacer                                         | 71-141-822-003 |       |
| 6    | Socket Hd. Screw, Cup Pt.                                       | 00-617-031-214 |       | 38   | Spacer                                         | 71-141-822-004 |       |
| 7    | Block                                                           | 72-140-296-001 |       | 39   | Pin                                            | 71-141-823-005 |       |
| 8    | Plate                                                           | 72-140-237-001 |       | 40   | Retaining Ring                                 | 00-673-165-037 |       |
| 9    | Jam Nut                                                         | 00-631-171-104 |       | 41   | Connector Assembly<br>(Incl. Items 42 thru 45) | 18-657-346-544 |       |
| 10   | Bearing                                                         | 72-140-054-001 |       | 42   | Connector                                      | 71-141-759-503 |       |
| 11   | Bracket                                                         | 71-141-754-001 |       | 43   | Arm Runner                                     | 71-142-052-001 |       |
| 12   | Trunnion                                                        | 72-140-003-001 |       | 44   | Lockwasher                                     | 00-655-017-022 |       |
| 13   | Spacer                                                          | 72-140-023-001 |       | 45   | Cap Screw                                      | 00-615-124-213 |       |
| 14   | Spacer                                                          | 72-140-023-002 |       | 46   | Contact Finger                                 | 71-141-973-501 |       |
| 15   | Spiral Pin                                                      | 00-671-185-901 |       | 47   | Pan (Steel)                                    | 71-140-114-001 |       |
| 16   | Racking Screw                                                   | 72-140-030-501 |       | 48   | Base (Molding)                                 | 71-140-119-001 |       |
| 17   | Panel Assembly<br>(Incl. Items 18 thru 32)                      | 18-657-346-542 |       | 49   | Contact                                        | 71-141-763-001 |       |
| 18   | Connector and Clevis<br>Assembly (Includes<br>Items 19 thru 40) | 18-657-346-543 |       | 50   | Contact                                        | 71-141-763-002 |       |
| 19   | Clevis Assembly<br>(Incl. Items 20 thru 31)                     | 18-657-346-553 |       | 51   | Spring                                         | 71-141-930-001 |       |
| 20   | Arcing Contact                                                  | 71-141-803-501 |       | 52   | Spring                                         | 71-141-976-001 |       |
| 21   | Main Contact                                                    | 71-141-805-501 |       | 53   | Interlock Assembly                             | 18-657-346-556 |       |
| 22   | Spacer                                                          | 71-141-822-003 |       | 54   | Spring                                         | 71-141-973-001 |       |
| 23   | Spacer                                                          | 71-141-822-004 |       | 55   | Indicator                                      | 71-142-112-001 |       |
| 24   | Pin                                                             | 71-141-921-002 |       | 56   | Spring Assembly                                | 71-142-140-502 |       |
| 25   | Spring                                                          | 71-142-123-001 |       | 57   | Spring                                         | 71-142-149-001 |       |
| 26   | Spring                                                          | 71-142-139-001 |       | 58   | Indicator                                      | 71-141-817-001 |       |
| 27   | Clevis                                                          | 71-240-561-001 |       | 59   | Link                                           | 71-142-105-003 | BCEP  |
| 28   | Elastic Stop Nut                                                | 00-633-025-116 |       | 60   | Apron                                          | 72-140-055-501 |       |
| 29   | Screw                                                           | 00-615-114-390 |       | 61   | Operator Shaft Assy.                           | 18-657-346-539 |       |
| 30   | Spacer                                                          | 71-142-122-001 |       | 62   | Channel LH                                     | 71-142-054-001 |       |
| 31   | Washer                                                          | 00-651-017-135 |       | 63   | Channel RH                                     | 71-142-055-002 |       |
| 32   | Connector Assembly<br>(Incl. Items 33 thru 36)                  | 18-657-346-551 |       | 64   | Bumper                                         | 71-142-383-001 |       |
|      |                                                                 |                |       | 65   | Spring                                         | 71-141-913-001 |       |
|      |                                                                 |                |       | 66   | Bumper                                         | 71-141-829-002 |       |
|      |                                                                 |                |       | 67   | Bearing                                        | 71-141-955-002 |       |
|      |                                                                 |                |       | 68   | Link                                           | 71-142-111-001 |       |

Figure 2. Operator Mechanism and Panel Assembly

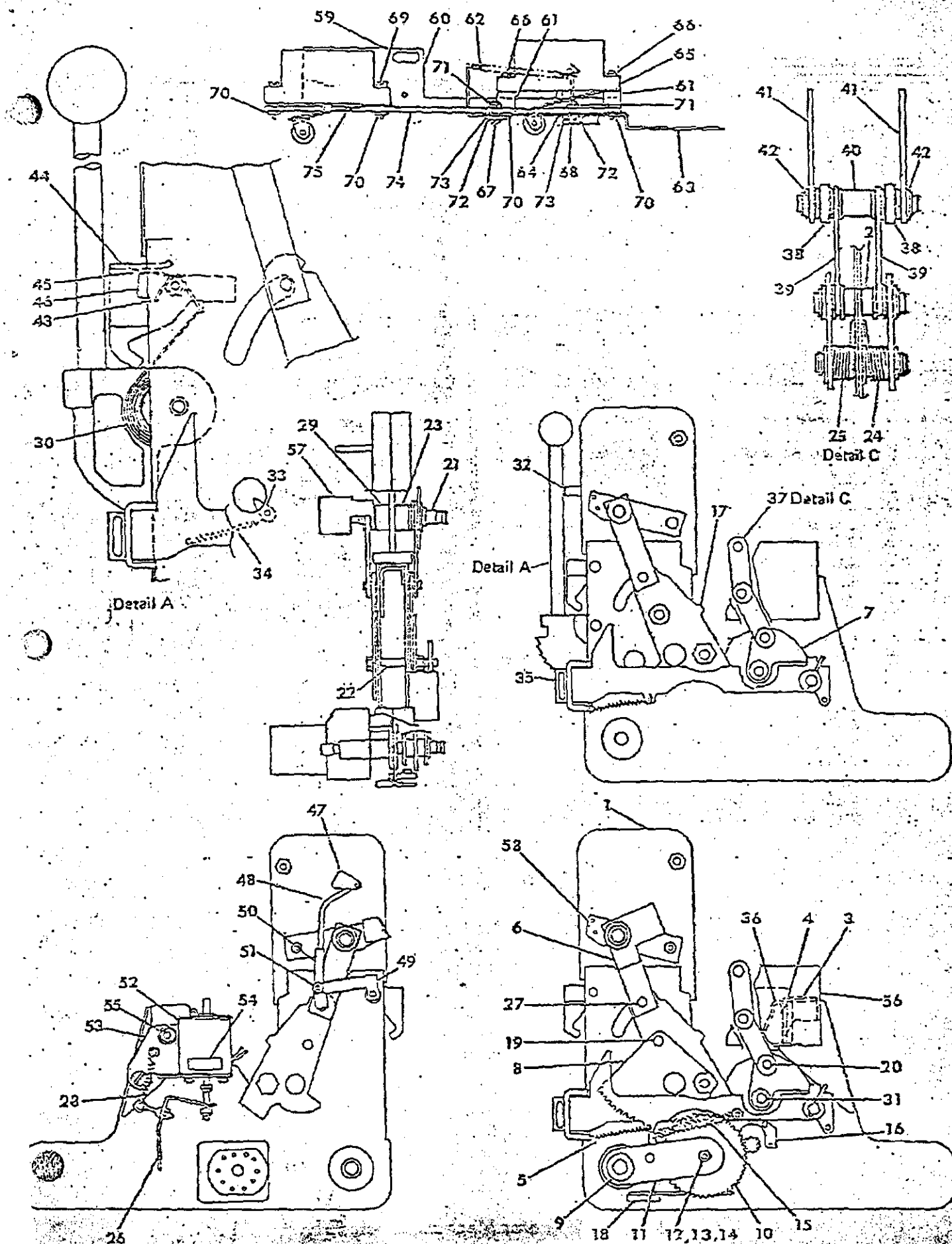


Figure 3. Operator Mechanism Assembly. (18-465-970-502, 18-465-965-511)

| ITEM | DESCRIPTION                                      | PART NUMBER    | USAGE | ITEM | DESCRIPTION                                       | PART NUMBER    | USAGE |
|------|--------------------------------------------------|----------------|-------|------|---------------------------------------------------|----------------|-------|
| 1    | Frame Assembly                                   | 18-657-346-540 | AD    | 38   | Roller                                            | 71-141-759-002 |       |
| 2    | Spacer                                           | 18-657-346-554 | BCEF  | 39   | Link                                              | 71-142-057-001 |       |
| 3    | Plate                                            | 71-141-823-004 |       | 40   | Spacer                                            | 71-141-823-004 |       |
| 4    | Bumper                                           | 71-141-774-001 |       | 41   | Link                                              | 71-142-057-002 |       |
| 5    | Spring                                           | 71-142-209-001 |       | 42   | Needle Bearing                                    | 00-813-119-803 |       |
| 6    | Link                                             | 71-142-071-001 | AD    | 43   | Spring                                            | 71-142-406-001 |       |
|      |                                                  | 18-657-359-553 | BCEF  | 44   | Channel                                           | 71-142-407-001 |       |
| 7    | Latch                                            | 71-142-070-001 |       | 45   | Spring                                            | 71-142-408-001 |       |
| 8    | Gear Segment                                     | 72-140-323-001 | BCEF  | 46   | Latch                                             | 71-142-409-002 |       |
| 9    | Gear & Arm Assy.<br>(Incl. Items 10 thru 14)     | 72-140-323-502 | BCEF  | 47   | Lever                                             | 72-140-198-001 |       |
| 10   | Gear                                             | 72-140-150-501 | BCEF  | 48   | Rod                                               | 72-140-140-002 |       |
| 11   | Arm                                              | 72-140-129-502 | BCEF  | 49   | Arm                                               | 71-142-433-001 |       |
| 12   | Bearing                                          | 71-141-864-001 | BCEF  | 50   | Yoke End Adj.                                     | 00-691-701-900 |       |
| 13   | Capacitor, Max Hd.                               | 00-611-315-532 | BCEF  | 51   | Clavis Pin                                        | 00-957-211-900 |       |
| 14   | Stover Lock Nut                                  | 15-171-063-004 | BCEF  | 52   | Sealed Actuator                                   | 72-240-002-501 |       |
| 15   | Spring                                           | 72-140-324-001 | BCEF  | 53   | Bracket                                           | 71-142-384-001 |       |
| 16   | Bracket                                          | 72-140-325-001 | BCEF  | 54   | Decal                                             | 72-140-002-001 |       |
| 17   | Cam                                              | 71-141-782-001 |       | 55   | Rod                                               | 72-140-097-002 |       |
| 18   | Spring Assembly                                  | 18-657-358-523 | BCEF  | 56   | Bracket                                           | 71-142-141-001 |       |
| 19   | Pin                                              | 71-141-823-007 |       | 57   | Indicator                                         | 18-657-346-546 |       |
| 20   | Pin                                              | 71-240-127-019 |       | 58   | Arm                                               | 71-142-114-001 |       |
| 21   | Pin                                              | 71-142-082-001 |       | 59   | Switch, Motor Control<br>(Incl. Items 60 thru 75) | 18-657-346-523 |       |
| 22   | Spacer                                           | 71-141-828-003 |       | 60   | Bracket                                           | 71-240-581-001 |       |
| 23   | Bumper                                           | 71-142-102-001 |       | 61   | Spacer                                            | 71-100-403-003 |       |
| 24   | Spring                                           | 71-141-833-001 |       | 62   | Spring                                            | 71-142-049-001 |       |
| 25   | Spring                                           | 71-141-823-002 |       | 63   | Plunger                                           | 71-142-143-001 |       |
| 26   | Arm                                              | 71-142-396-001 |       | 64   | Spacer                                            | 71-142-150-001 |       |
| 27   | Roller Bearing                                   | 00-813-109-037 |       | 65   | Limit Switch                                      | 00-871-383-403 |       |
| 28   | Spring                                           | 71-142-049-001 |       | 66   | Screw                                             | 00-615-471-130 |       |
| 29   | Link                                             | 71-142-071-001 | BCEF  | 67   | Screw                                             | 00-615-485-220 |       |
| 30   | Spring                                           | 71-141-761-001 | AD    | 68   | Screw                                             | 00-615-485-227 |       |
| 31   | Pin                                              | 71-141-823-002 |       | 69   | Screw                                             | 00-615-223-125 |       |
| 32   | Bumper                                           | 71-141-866-001 |       | 70   | Pol Nut                                           | 00-633-163-106 |       |
| 33   | Pawl                                             | 72-140-062-002 |       | 71   | Elastic Stop Nut                                  | 00-633-125-210 |       |
| 34   | Spring                                           | 71-141-266-001 |       | 72   | Washer                                            | 00-651-017-912 |       |
| 35   | Trip Shaft Assembly                              | 18-657-346-552 |       | 73   | Washer                                            | 00-651-017-903 |       |
| 36   | Kickoff Spring Assembly                          | 18-657-346-547 |       | 74   | Wire Assembly                                     | 18-721-436-503 |       |
| 37   | Toggle Linkage Assy.<br>(Incl. Items 38 thru 43) | 18-657-346-548 |       | 75   | Wire Assembly                                     | 18-721-436-507 |       |

Figure 3. Operator Mechanism Assembly

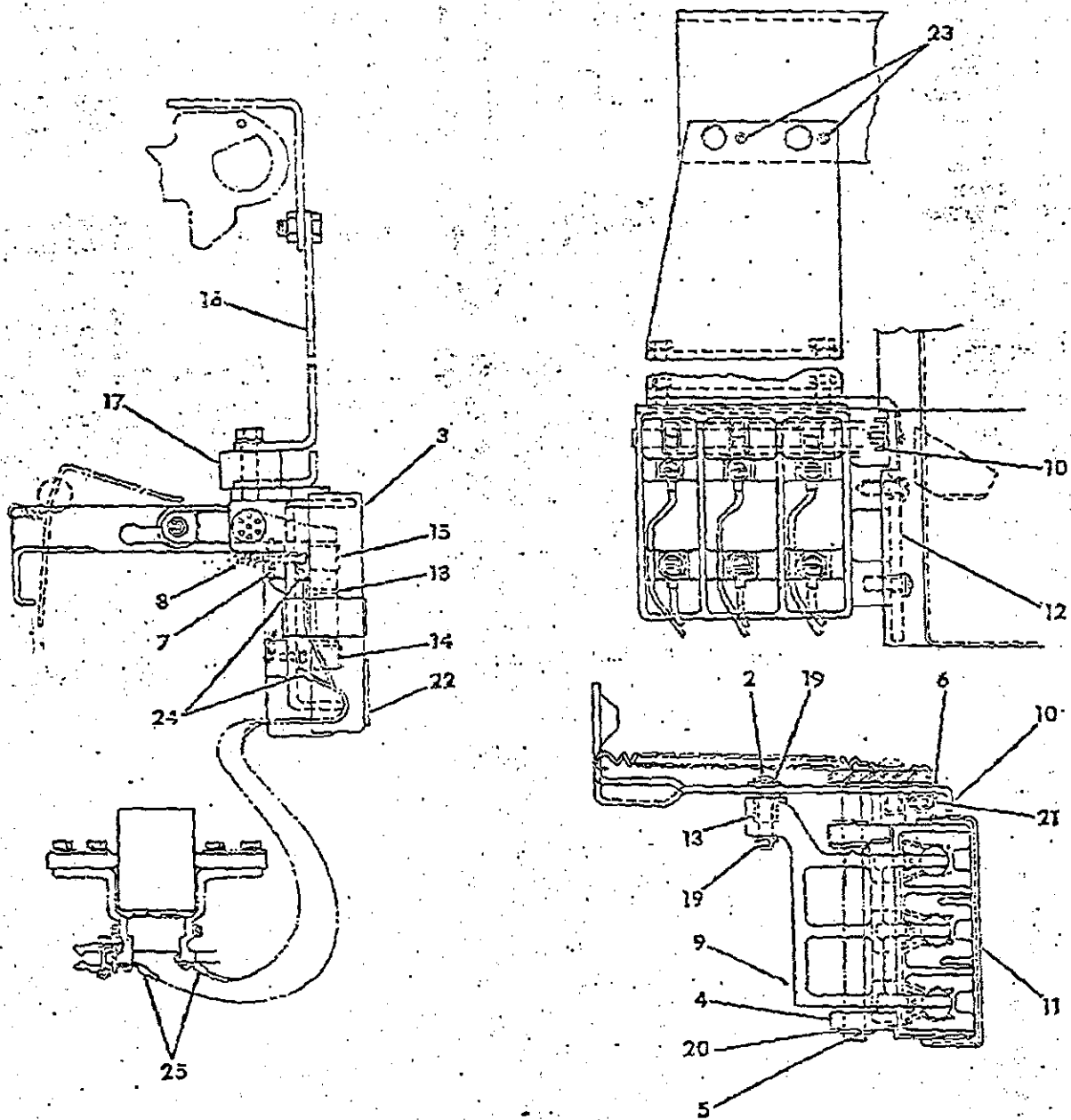


Figure 4. Trigger Fuses

| ITEM | DESCRIPTION                                     | PART NUMBER    | USAGE | ITEM | DESCRIPTION           | PART NUMBER    |
|------|-------------------------------------------------|----------------|-------|------|-----------------------|----------------|
| 1    | Trigger Fuse (Used with 2 Auxiliary Switches)   | 18-384-481-804 |       | 12   | Bracket               | 71-142-193-001 |
|      | Trigger Fuse (Used with 1 Auxiliary Switch)     | 18-394-491-805 |       | 13   | Bearing, Needle       | 00-813-119-801 |
|      | Trigger Fuse (Used with out Auxiliary Switches) | 18-394-481-806 |       | 14   | Fuse Clips, w/Stops   | 00-871-262-102 |
| 2    | Pin                                             | 71-240-028-005 |       | 15   | Fuse Clips, w/o Stops | 00-871-262-103 |
| 3    | Cover                                           | 71-240-509-001 |       | 16   | Bracket               | 72-140-316-001 |
| 4    | Fuse Housing                                    | 71-240-600-001 |       | 17   | Spacer                | 71-142-195-001 |
| 5    | Rod, Bakelite                                   | 71-115-458-003 |       | 18   | Trigger Fuse          | 72-140-317-001 |
| 6    | Spacer                                          | 71-140-719-002 |       | 19   | Retaining Ring        | 15-673-165-018 |
| 7    | Spring                                          | 71-142-049-001 |       | 20   | Retaining Ring        | 00-673-243-007 |
| 8    | Spring                                          | 71-142-209-001 |       | 21   | Elastic Stop Nut      | 00-633-059-103 |
| 9    | Lever                                           | 71-142-125-001 |       | 22   | Label                 | 15-171-185-001 |
| 10   | Trip Bar                                        | 72-140-313-001 |       | 23   | Roll Pin              | 00-671-176-309 |
| 11   | Clip                                            | 71-142-192-001 |       | 24   | Lug                   | 00-851-011-094 |
|      |                                                 |                |       | 25   | Lug                   | 00-851-061-094 |
|      |                                                 |                |       | 26   | Grommet               | 15-837-659-002 |

Figure 4. Trigger Fuses