



WIRING
Westinghouse Electric Corporation
Distribution and Protection
Business Unit
Commercial Division
875 Greentree Road
Pittsburgh, PA 15220

Renewal Parts Data
32-253-4C

Page 1

March, 1985
Supersedes Renewal Parts Data 32-253-4B
dated August, 1982

Porcel-line Type DHP Magnetic Air Circuit Breakers/ Housing

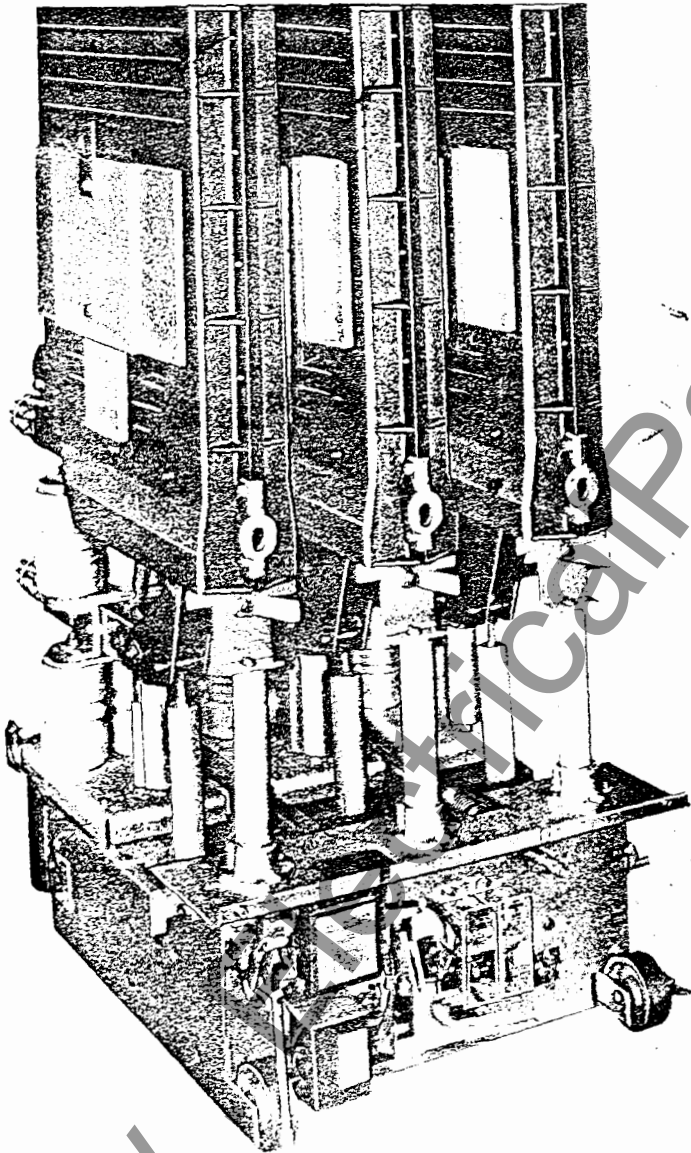


Figure 1 1500 DHP 500, 1200 Amperes with barrier removed

The following breakers are included in this publication

Circuit Breaker Type	Nominal Voltage Class — KV	Nominal 3 Phase MVA Class	Rated Continuous Current at 60 HZ — Amperes	Momentary Current Rating (Closing and Latching Capability) — KA RMS
50DHP75	4.16	75	1200	19
50DHP250	4.16	250	1200 2000	58
H50DHP250 ①	4.16	250	1200 2000	78 ①
50DHP350	4.16	350	1200 2000 3000	78
75DHP500	7.2	500	1200 2000 3000	66
150DHP500	13.8	500	1200 2000	37
H150DHP500 ①	13.8	500	1200 2000 3000	58 ①
150DHP750	13.8	750	1200 2000	58
150DHP750C	13.8	750	1200 2000 3000	58
H150DHP750C ①	13.8	750	1200 2000 3000	77 ①
150DHP1000	13.8	1000	1200 2000 3000	77

① Non-Standard Breaker with High Momentary Rating Available for Special Applications

For complete information on Type DHP Breaker ratings, see instruction Book 32-253-4A

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NOTE: FOR BREAKERS HAVING CAST MECHANISMS (REF. I.B. 32-253-1) REFER TO PAGE 20 FOR PARTS AVAILABILITY.

NOTE: THIS PUBLICATION IS NOT INTENDED FOR APPLICATION TO BREAKERS HAVING SPECIAL SEISMIC REQUIREMENTS. FOR PARTS IDENTIFICATION ON THOSE BREAKERS, IT WILL BE NECESSARY TO CONTACT THE COMMERCIAL DIVISION OF THE DISTRIBUTION AND PROTECTION BUSINESS UNIT, WITH THE BREAKER SHOP ORDER NUMBER.



Parts Identification

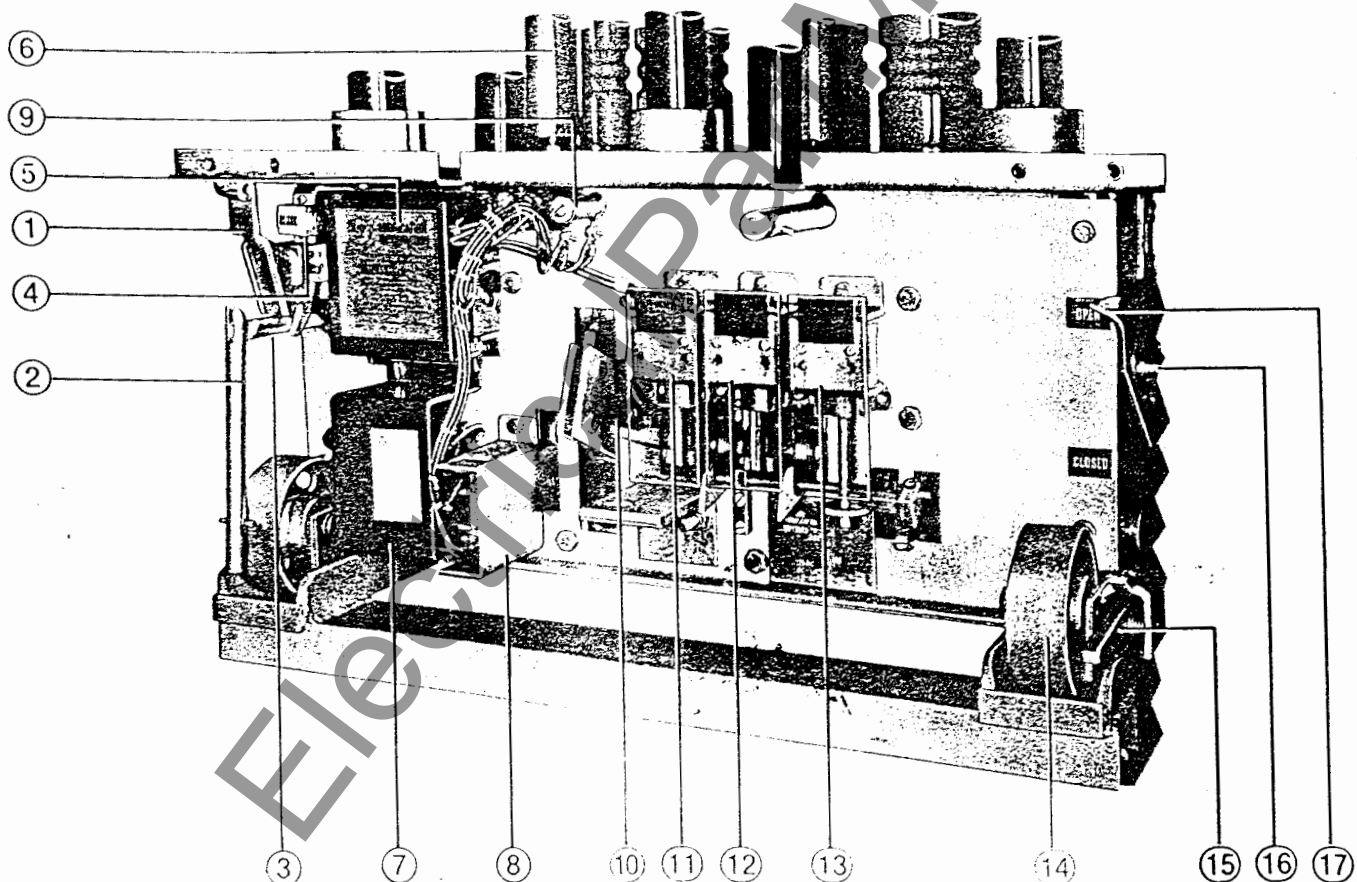
The illustrations in this Renewal Parts Data show parts and sub-assemblies which are identified by name and style number in the associated tabulations. Additional information and illustrations are shown in the figures in I.B. 32-253-4A, which show many sub-assemblies and detail parts in order to illustrate their function and location in the assembly. Some of the detail parts shown in the instruction book are recommended only as part of a sub-assembly to facilitate their replacement or installation in the field. The availability of parts and sub-assemblies is indicated by style number in the following data.

If the item in question cannot be identified by style number, refer to the figure number, name and item number as shown in this RPD along with the breaker type and its shop order number or style number as shown on the nameplate on the front of the breaker mechanism panel.

This nameplate information will also be required when adding components, which are not direct replacements, to a circuit breaker.

Ordering Information

1. Name item and give its style number. Specify quantity desired.
2. State breaker shop order number or style number.
3. State method of shipment desired.
4. Send all orders or correspondence to nearest Westinghouse Sales Office.



- | | | |
|---|---|--------------------------------|
| 1. Secondary Contact Handle | 7. Control Relay (Behind Cover) | 12. Spring Release Magnet |
| 2. Secondary Contact Hand Operating Rod | 8. Motor Cut-off Switch and Closing Spring Charged - Discharged Indicator | 13. Additional Trip (Optional) |
| 3. Secondary Contact Support | 9. Resistor Assembly | 14. Chassis Wheel Kit |
| 4. Operation Counter | 10. Latch Checking Switch | 15. Rail Latch |
| 5. Auxiliary Switches (Behind Cover) | 11. Tripping Magnet | 16. MOC Switch Operating Pin |
| 6. Moving Contact Operating Rod | | 17. Breaker Position Indicator |

Figure 2.



Items Common to All Breakers

Description of Part	Figure Number	Item Number	Number Required for One Breaker	Style Number of Part
Breaker Position Indicator and MOC Switch Operating Pin	2	17	1	791A620G01
Rail Latch Assembly	2	15	1	792A083G01
Motor Cutoff Switch	2	8	1	450D818G02 (2 Circuit) 4 Terminals 450D818G04 (4 Circuit) 8 Terminals
Motor Cutoff Switch* and Indicator (Less Switches)				591C993G07
Operating Rod Assembly	2	2	1	3838A54G01
Secondary Contact Handle Assembly	2	1	1	792A087G01
Operations Counter	2	4	1	592C040H01
Auxiliary Switch (Upper)	2	5	1	46A9047G04 ^③
Auxiliary Switch (Lower)	2	5	1	46A9047G05 ^③
Latch Checking Switch	2	10	1	784A907H01#
Spring Release Magnet	2	12	1	592C921G01 Plus Coil ^② ^④
Shunt Trip Magnet	2	11/13	1	
Wheels - Including Pins and Rings	2	14	1	792A085G01 (3 Inch) Set of 4 wheels 792A085G02 (4 Inch) each kit
Kit - Misc. Covers for Switches, 2 Relay, Located on Mech. Panel (Not Illustrated)			50DHP75 50DHP250 50DHP350 1200 and 2000A 50DHP350-3000A 75DHP and 150DHP	792A088G01 792A088G02
Secondary Contact Support	2	3	50DHP250/350 1200 and 2000 Amp 50DHP350-3000 Amp 1500DHP - All	437D249G01 437D249G06 437D249G02
Control Items				Control Voltages
				48 V DC 125 V DC 250 V DC 115 V AC 60 HZ 230 V AC 60 HZ
Trip Coil	2	1	677C903G01	677C903G02 677C903G03 ^① ^①
Spring Release Coil	2	1	677C903G01	677C903G02 677C903G03 677C903G05 677C903G06
Control Relay "Y"	2	1	765A944G03	765A944G01 765A944G02 8263A53G01 [‡] 8263A53G02 [‡]
Resistor Assembly	2/3	1	73432ECCBD 25 Ohm	73432ECOHE 200 Ohm 73432ECOMB 750 Ohm 502A006H13 250 Ohm 502A006H15 750 Ohm
Control Items for Existing Breakers Having Solenoid Operated Mechanisms				Control Voltages
				5 KV 15 KV
				125 KV DC 250 V DC 125 DC 250 V DC
Close Coil			676631	676625 300P822G01 ^⑤ 300P823G01 ^⑤
Control Relay "X" Resistor			423D181G02 73432ECOQO 2000 Ohm	423D181G03 73432ECOQU 7500 Ohm 300P820G01 ^⑤ 300P821G01 ^⑤ 423D181G02 423D181G03 723432ECOQO 73432ECOQU 2000 Ohm 7500 Ohm

^① For Capacitor Trip Device 382D719G06 use Trip Coil 677C903G03.*

For Capacitor Trip Device 689C166G02 use Trip Coil 677C903G07.

^② When ordering magnet, include proper coil from table shown above or specify shop order reference of breaker.^③ Breakers which have special seismic requirements are equipped with special switches: upper, 46A9047G15 and lower, 46A9047G16.^④ Link type (illustrated). For breakers having plunger type magnet, order 310C666G01 plus desired coil. See page 19 for illustration of the two magnet types. (link/plunger)^⑤ Applicable to breakers with 40 KA momentary current rating.^⑥ Applicable to breakers with 60 KA momentary current rating.

* Capacitor trip device 382D719G06 not available. When capacitor trip 689C166G02 is supplied - coil 677C903G07 must also be furnished.

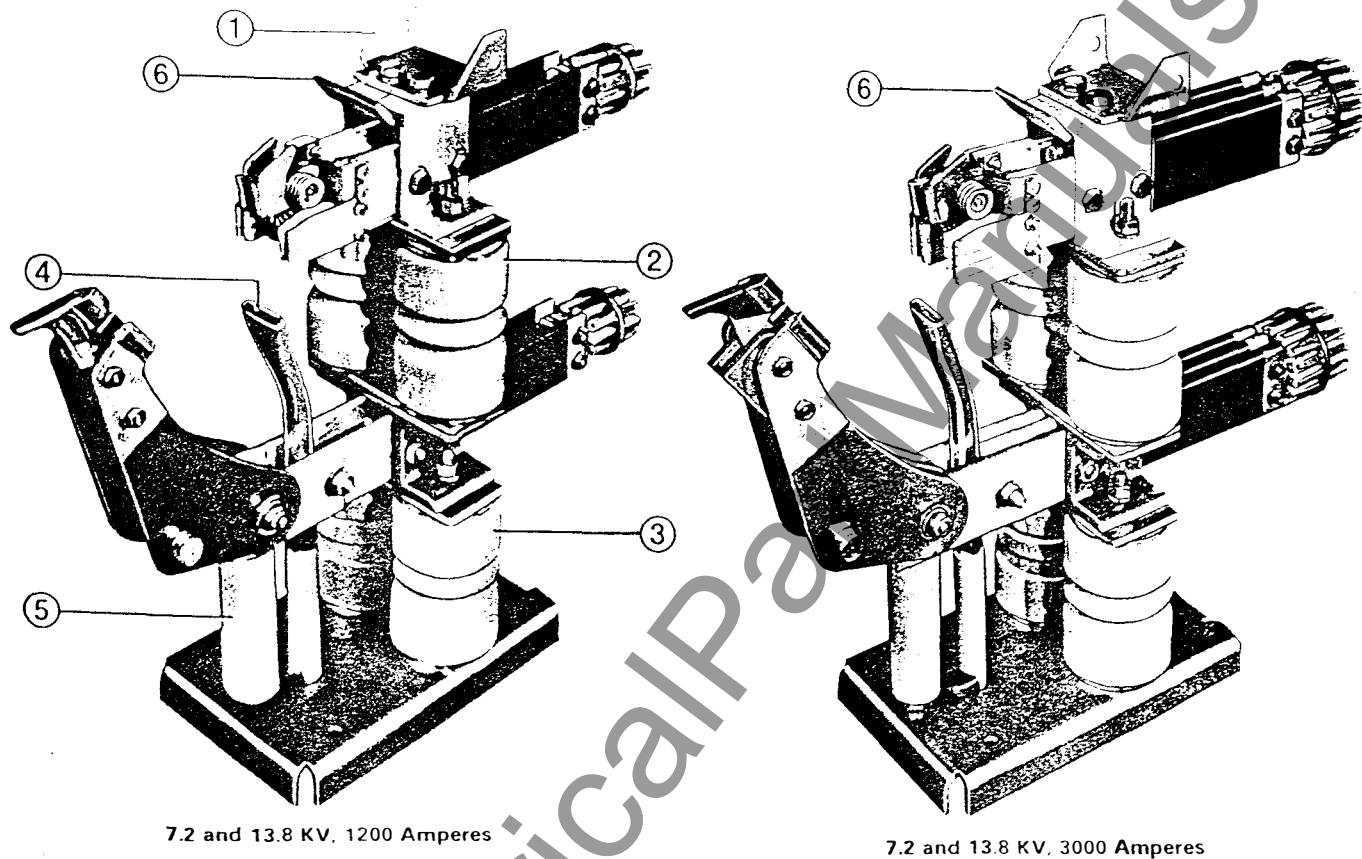
Fabricated mechanisms only. For cast stored energy and solenoid mechanism - order 662A143H01.

‡ Includes relay, rectifier and mounting bracket.

Y - old
Z - new style - 128

make coils

POLE UNIT PARTS



1. Arc Chute Hinge Assembly
2. Pole Unit Insulator - Upper
3. Pole Unit Insulator - Lower
4. Puffer Tube Assembly
5. Porcelain Hinge Support Assembly
6. Rear Arc Horn Contact

Figure 7.

COMPLETE CONTACT ASSEMBLY (Stationary Main and Arcing - Moving Main and Arcing)

(See Page 7 for SNO. No. Contact Breaker Application)

1. Stationary Arcing Contact
2. Stationary Main Contact Assembly
3. Moving Arcing Contact
4. Moving Main Contact
5. Bumper Pad Kit
(Consists of 3 Pads and 6 Pins)

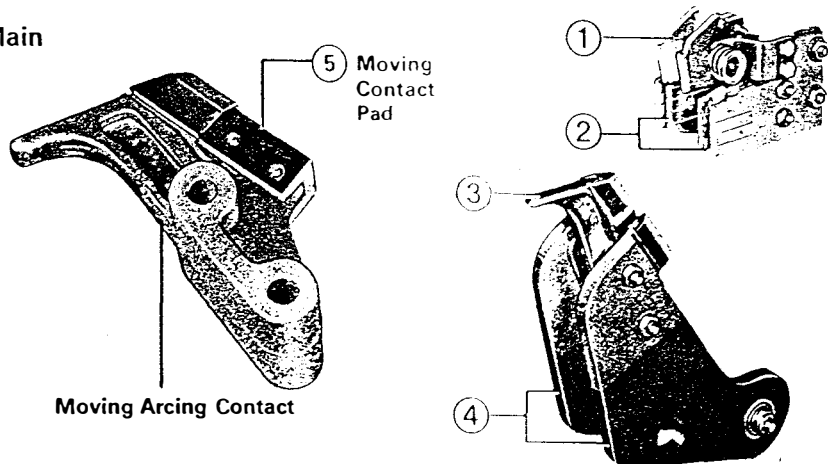


Figure 8.

Pole Units

Continuous Current Rating—Amperes		1200A	2000A	1200A	1200A	2000A	3000A	3000A
Breaker Type and Momentary Current Rating—KA		75DHP500 66 KA	75DHP500 66 KA	150DHP750 58 KA	150DHP750 77 KA	150DHP750 58 & 77 KA	75DHP500 66 KA	150DHP750C 58 & 77 KA
		150DHP500 37 & 58 KA	150DHP500 37 & 58 KA	150DHP750C 58 KA	150DHP750C 77 KA	150DHP750C 58 & 77 KA	150DHP500 58 KA	150DHP1000 77 KA
					150DHP1000 77 KA	150DHP1000 77 KA		
Description of Part	Fig. No.	Number Required for One 3 Pole Breaker	Style Number of Part					
Single Pole Unit Assembly Complete Includes following: ①	7	3	568F444G01	567F984G05	568F444G01 568F444G03	568F444G02 568F444G04	567F984G05 568F261G05	567F984G03 568F261G03
Complete Contact Assembly (Stationary Main and Arcing – Moving Main and Arcing)	8	3	6426C75G01 6426C76G01	6426C75G02 6426C76G02	6426C77G01 6426C78G01	6426C77G02 6426C78G02 6426C79G01	6426C77G03 6426C78G03 6426C79G02	6426C75G03 6426C76G03 6426C78G04 6426C79G03
Bumper Pad Kit (Consists of 3 Pads/6 Pins)	8	1	792A144G01	792A144G01	792A144G01	792A144G01	792A144G01	792A144G01
Porcelain Hinge Support Assembly	7	3	435B370G01	435B370G01	435B370G01	435B370G01	435B370G01	435B370G02
Moving Contact Operating Rod	2	3	501B713G02	501B713G02	501B713G02	501B713G02	501B713G02	501B713G02
Primary Disconnecting Contact	3	6	502A851G01	502A852G01	502A851G01	502A851G01	502A852G01	502B852G01
Arc Chute Support	3	3	677C892G03 677C892G02	677C892G03 677C892G02	677C892G02 591C723G05	677C892G02 591C723G05 591C723G05	677C892G02 591C723G05 591C723G05	677C892G03 591C723G05 591C723G05
Kit – Insulators ② Upper Pole Unit	7		792A098G01 ②	792A098G01 ②	792A098G01 ②	792A098G01 ②	792A098G01 ②	792A098G01 ②
Kit – Insulators ② Lower Pole Unit	7		792A098G02 ②	792A098G02 ②	792A098G02 ②	792A098G02 ②	792A098G02 ②	792A098G02 ②
Pole Unit (For Field Replacement) (Monolithic to PIP) ③	7		568F487G01 568F487G01	568F487G02 568F487G02	568F487G01 568F487G03	④ ④ ④	568F487G02 568F487G04 ④	④ ④ ④
Puffer Tube Assembly	7		507B993G02	507B993G02	507B993G02	507B993G02	507B993G02	507B993G02
Arc Chute Hinge	7	3	3580A59H01 3580A59H01	3580A59H01 3580A59H01	3580A59H01 436B128G01	3580A59H01 436B128G01 436B128G01	3580A59H01 436B128G01 436B128G01	436B128G01 436B128G01 436B128G01
Rear Arc Horn Contact	7		436B429H01 436B429H01	436B429H01 436B429H01	436B429H01 436B429H01	436B429H01 436B429H01 436B429H01	436B429H01 436B429H01 436B429H01	436B429H01 436B429H01 436B429H01
Stationary Arcing Contact	8		501B812G01 501B812G01	501B812G01 501B812G01	501B812G01 501B812G03	501B812G01 501B812G03 501B812G03	501B812G01 501B812G03 501B812G03	501B812G01 501B812G03 501B812G03

① Less finger cluster and lift rod (Operating rod).

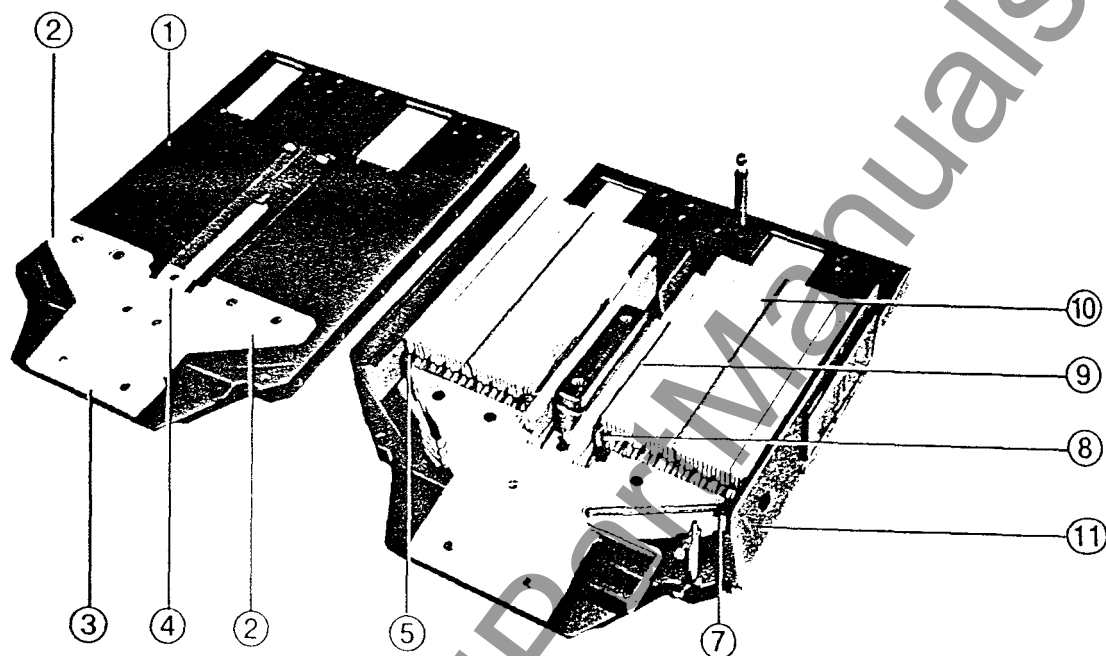
② Kit includes matched pair of insulators. Must be used together.

③ The 150DHP1000 Breaker ratings were designed with PIP units, therefore, are subject to normal pole unit replacement.

④ No replacement pole unit available.



ARC CHUTE PARTS



1. Side Sheet
2. Arc Shield
3. Arc Shield - Bottom
4. Arc Shield - Spacer
5. Arc Horn - Rear
6. Blowout Coil
7. Arc Horn - Front
8. Arc Horn - Center
9. Transfer Stack Assembly
10. Main Stack Assembly
11. End Plate

Figure 11. 150DHP750C Arc Chute

Arc Chutes and Barriers^① 15 KV

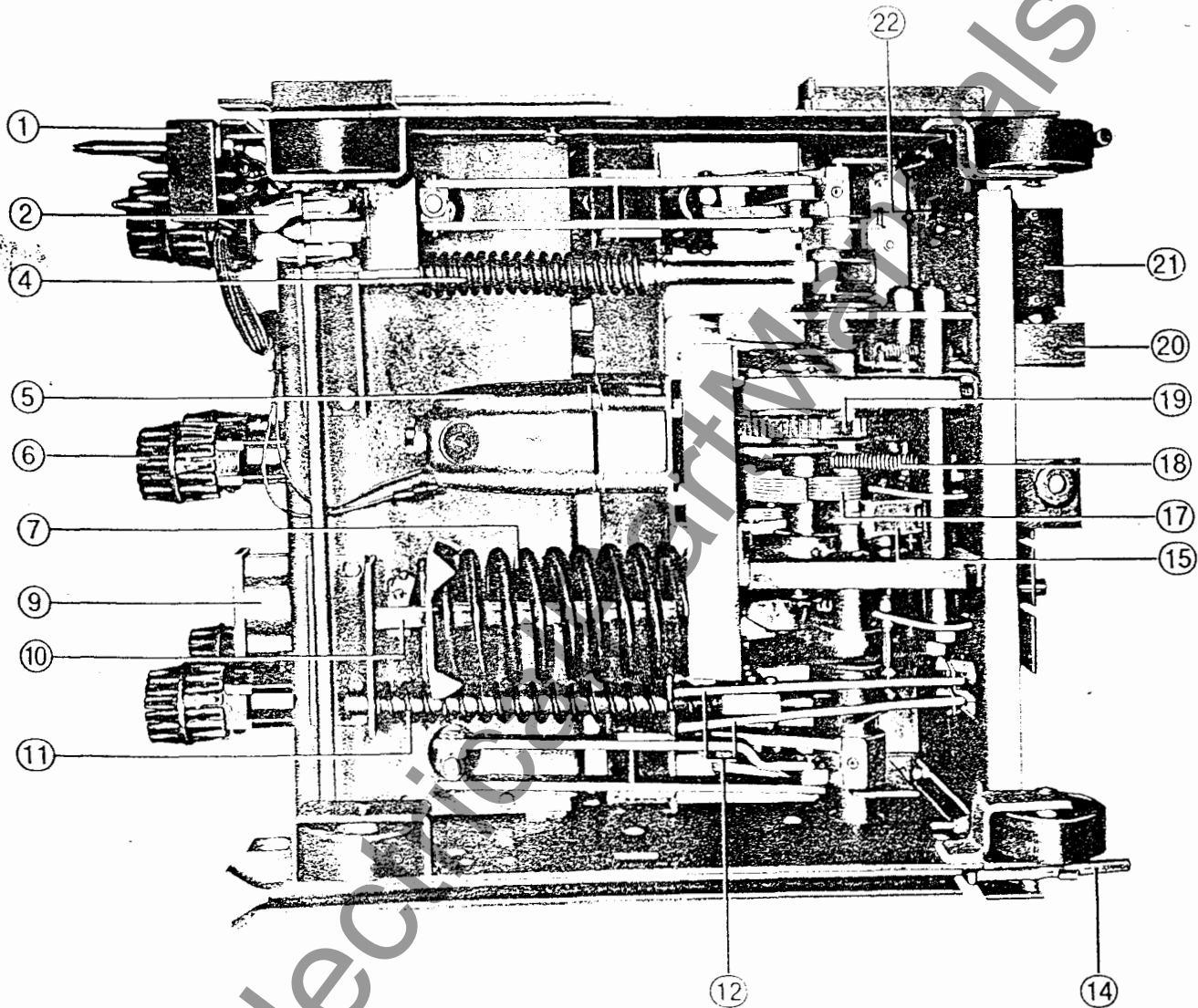
Description of Part	Fig. No.	Breaker Type Required for One 3 Pole Breaker	75DHP500 All Ratings	150DHP500 All Ratings 150DHP750 All Ratings	150DHP750C All Ratings	150DHP1000 All Ratings
			Style Number of Part			
Arc Chute Complete	11	3	567F532G01	546F997G02 546F997G06	567F843G01	568F264G01
Main and Transfer Stack Assembly Kit	11	3	6426C85G01	6426C85G02 6426C85G03	*6426C86G01	*6426C86G02
Arc Shield – R.H.	11	3	423D171H01	423D171H01		
Arc Shield – L.H.	11	3	423D172H01	423D172H01		
Arc Shield (consists of)						
Front Left – Rear Right	11	6			567F899H01	567F899H01
Front Right – Rear Left	11	6			567F899H02	567F899H02
Bottom	11	6			435B205H01	435B205H01
Spacer	11	6			809A322H01	809A322H01
Side Sheet – R.H.	11	3	548F261G01	548F261G01	567F931G01	567F931G01
Side Sheet – L.H.	11	3	548F262G01	548F262G01	567F931G01	567F931G01
End Plate	11	3			151D176G01	151D176G02
Blow Out Coil	11	6	591C379G01	310C411G01	591C698G01	591C698G01
Arcing Horn Replacement Kit ^②	11	3	792A136G01	792A137G01 792A139G01	792A138G01	792A138G01
Barrier Complete	10	1	546F995G01	546F995G01 547F009G01	567F844G01	568F166G01
Barrier Front Panel	10	1	437D276G01	437D276G01	151D179G01	151D179G02

① Kit consists of: one front, one rear and two center arc horns.

*Kit includes gaskets for 150DHP750C
150DHP1000 Arc Chutes.



CHASSIS PARTS



- | | |
|----------------------------------|--|
| 1. Secondary Contact Block | 12. Floor Tripper Levers |
| 2. Ground Contact | 14. Rail Latch |
| 4. Opening Spring - Left Hand | 15. Tripping Cam |
| 5. Spring Charging Motor | 17. Closing Cam |
| 6. Primary De-energizing Contact | 18. Mechanism Linkage Retrieving Spring |
| 7. Closing Spring | 19. Ratchet Wheel |
| 9. Levering-in Nut Housing | 20. Motor Cut-off Switch and Spring Charge Indicator |
| 10. Connecting Rod | 21. Control Relay |
| 11. Opening Spring - Right Hand | 22. Switch Operating Link (Auxiliary Switch) |

Figure 12. Underside of 15.0 Kv Breaker



Chassis Parts – All Breakers

Breaker Type	Misc. Springs Package – Kit	Mech. Assembly W/Close Spring W/O Spring Charge Motor	Mech. – Small Springs – Kit	Closing Spring ①	Opening (Accelerating) Springs – Kit
50DHP75	6426C72G01	6426C81G01	6426C70G01	503B411H01	6426C71G01
50DHP250					6426C71G01
50DHP350					6426C71G02
1200 and 2000A					
50DHP350	6426C72G02	6426C82G01	6426C70G01	509A893H01	6426C71G03
3000A					
150DHP500	6426C72G02	6426C83G01	6426C70G01	503B411H02	6426C71G04
37 KA Momentary					
75DHP500 – 66 KA					
H150DHP500					
150DHP750 – 58 KA	6426C72G02	6426C83G02	6426C70G01	503B411H05	6426C71G04
150DHP750C					
H150DHP750C – 77 KA	6426C72G01	6426C83G03	6426C70G01	503B411H05	6426C71G04
150DHP1000					

① Closing Spring Removal tool is available. Order Style 592C864G01

Miscellaneous Springs-Kit – Contents

1. Lev. in-device interlock flat spring
2. Floor latch spring
3. Floor tripper spring
4. Lev. in-device panel spring
- Lev. in-device panel spring 50DHP350 – 3000A
5. Lev. in-device nut and tube spring
- Lev. in-device nut and tube spring 50DHP350-3000A
6. Secondary contact lever spring
7. Contact hinge spring
8. Operation counter spring
9. Motor cutoff switch and indicator spring

Mechanism Small Springs-Kit – Contents

1. Main roller reset spring
2. Mtr. ratchet lever spring
3. Man. ratchet lever spring
4. Trigger spring
5. Opening latch spring
6. Closing latch spring
7. Mtr. pawl spring
8. Man. pawl spring

Opening Springs-Kit – Contents

1. Panel kick-off spring 50DHP75/250/350-1200 and 2000 Amp
2. Contact kick-off spring
3. Accelerating spring 50DHP75/250/350 1200 and 2000 Amp
4. R.H. accelerating spring
5. L.H. accelerating 50DHP350 – 3000A
- R.H. accelerating spring
- L.H. accelerating spring 75/150DHP – All.

Auxiliary Switch

See Figure 12

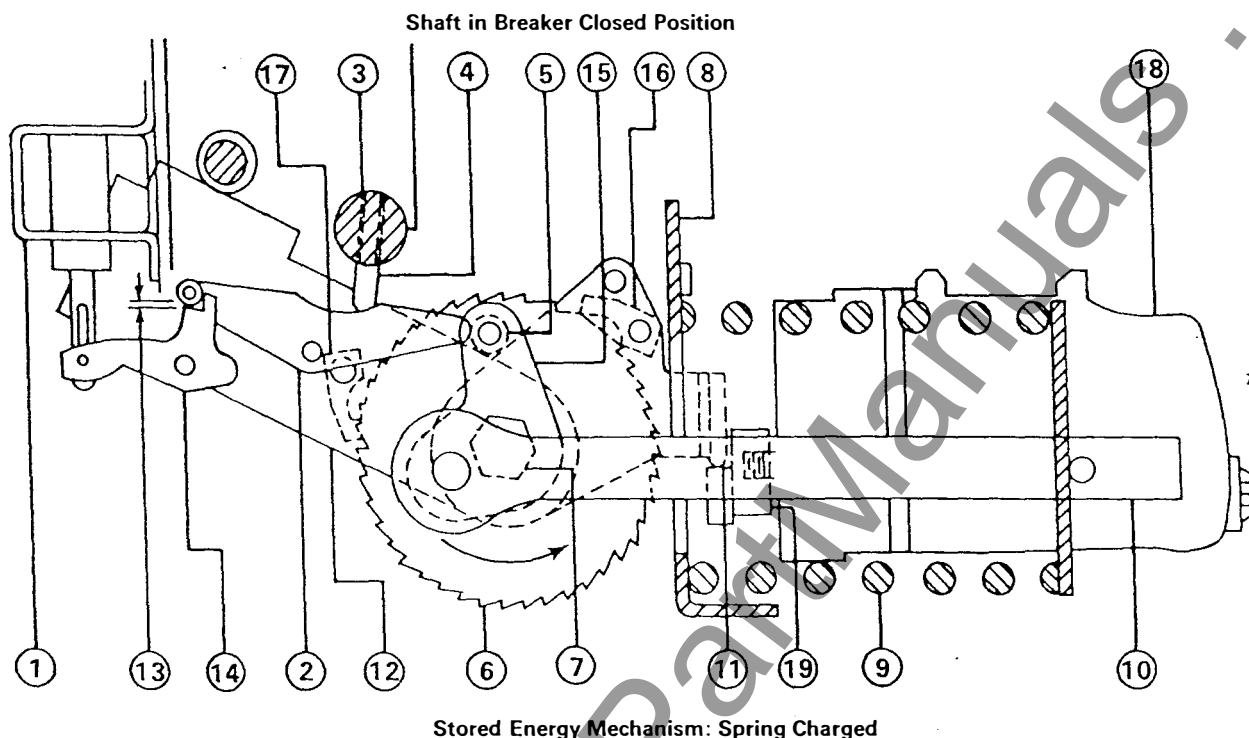
Operating Link

Ref. Figure 12 Item 22

All DHP Breakers except 437D248G01
3000 Amp – 50 DHP 350 437D248G03
DVP All ratings 3568A94G01

Connecting Link (between two auxiliary switches)

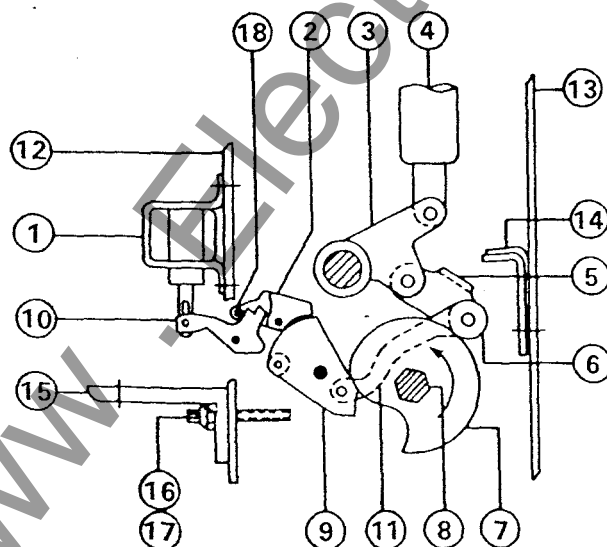
3836A53H01



Stored Energy Mechanism: Spring Charged

- | | | |
|-----------------------------------|--|---------------------|
| 1. Spring Release Magnet and Coil | 8. Mechanism Frame | 14. Closing Trigger |
| 2. Closing Latch | 9. Closing Spring | 15. Main Crank |
| 3. Pole Unit Operating Shaft | 10. Connecting Rod | 16. Driving Pawl |
| 4. Anti-Close Interlock Screw | 11. Driving Plate and Motor Ratchet Lever Assembly | 17. Holding Pawl |
| 5. Closing Stop Roller | 12. Manual Ratchet Lever and Holding Pawl Assembly | 18. Motor |
| 6. Ratchet Wheel | 13. Clearance .010 to .030, Breaker Closed | 19. Crank Assembly |
| 7. Crank Shaft | | |

Figure 13. Schematic View of Spring Charging Parts



Breaker Open and Closing Spring Not Charged

- | | |
|--------------------------------|----------------------------------|
| 1. Tripping Magnet | 10. Tripping Trigger |
| 2. Tripping Latch | 11. Tripping Cam |
| 3. Center Pole Unit Lever | 12. Tripping Cam Connecting Link |
| 4. Main Contact Operating Rod | 13. Front Panel |
| 5. Main Link | 14. Mech. Back Plate |
| 6. Closing Cam | 15. Bumper |
| 7. Closing Cam Follower roller | 16. Dolly Bracket |
| 8. Crank Shaft | 17. Tripping Cam Adjusting Screw |
| 9. Tripping Cam | 18. Locking Nut |
| | 19. Trip Latch Roller |

Figure 14. Schematic View of the Closing Cam and Trip Linkage

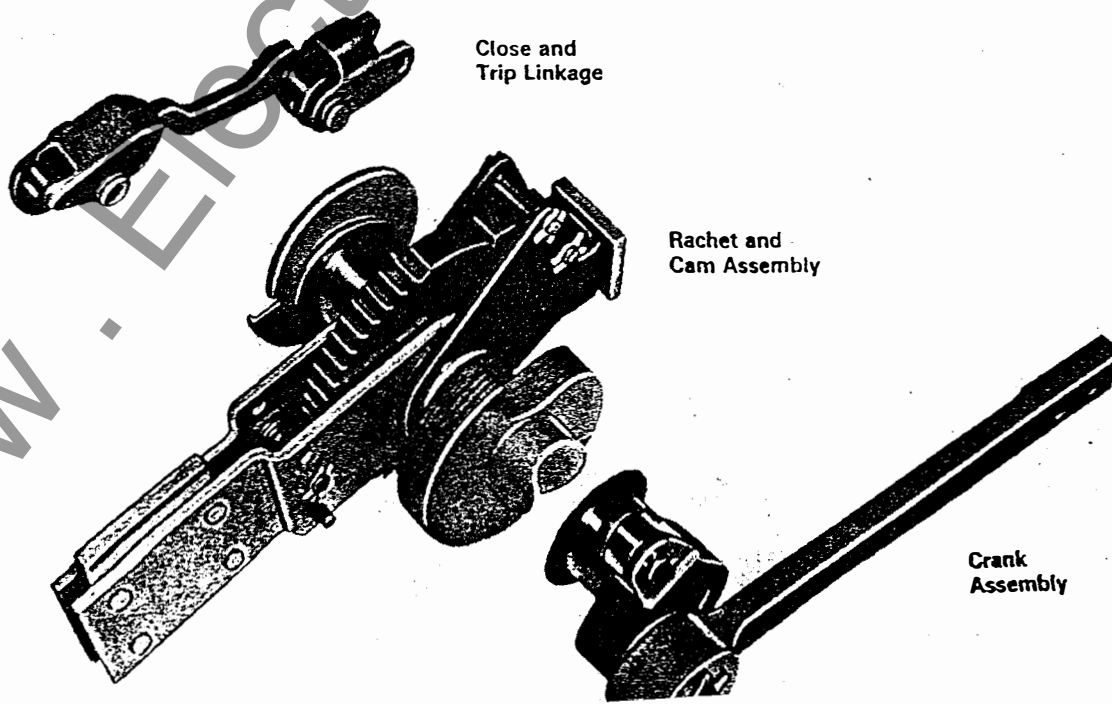
**Chassis Parts – All Breakers**

Description of Part	Figure Number	Breaker Type	Style Number of Part
Closing Latch and Trigger Assembly Kit	13	All (Link Type) All (Plunger Type)	792A116G01 ① 792A116G02 ①
Tripping Latch and Trigger Assembly Kit	14	All (Link Type) All (Plunger Type)	792A117G01 ② 792A117G02 ②
Ratchet and Cam Assembly Less Crank Assembly	15	50DHP250/350 1200/2000A 50DHP350 – 3000A and all 75/150 Breakers	792A120G01 792A120G02
Cutoff Switch Cam, End Washer and Retainer Bolt	15	All Breakers	792A119G01
Close and Trip Linkage	15	All Breakers	503B365G01
Crank Assembly	15	50DHP250/350 1200/2000A 50DHP350 – 3000A and all 75/150 Breakers	691C009G01 691C010G01
Trip Cam Adj. Screw and Nut	14	All Breakers	792A118G01
Fastener Kit (DHP)(Not Illustrated)		All Breakers	8184A69G01
Fastener Kit (DVP)(Not Illustrated)		All Breakers	8065A19G01
Driving and Holding Pawl-Kit (Not Illustrated) All Breakers		All Breakers	6426C87G01 ③

① Consists of Items 2 and 14 Figure 13

② Consists of Items 2 and 10 Figure 14

③ Kit contains sufficient X-washers, E-rings, Truarc rings, etc., for one breaker.





LEVERING DEVICES

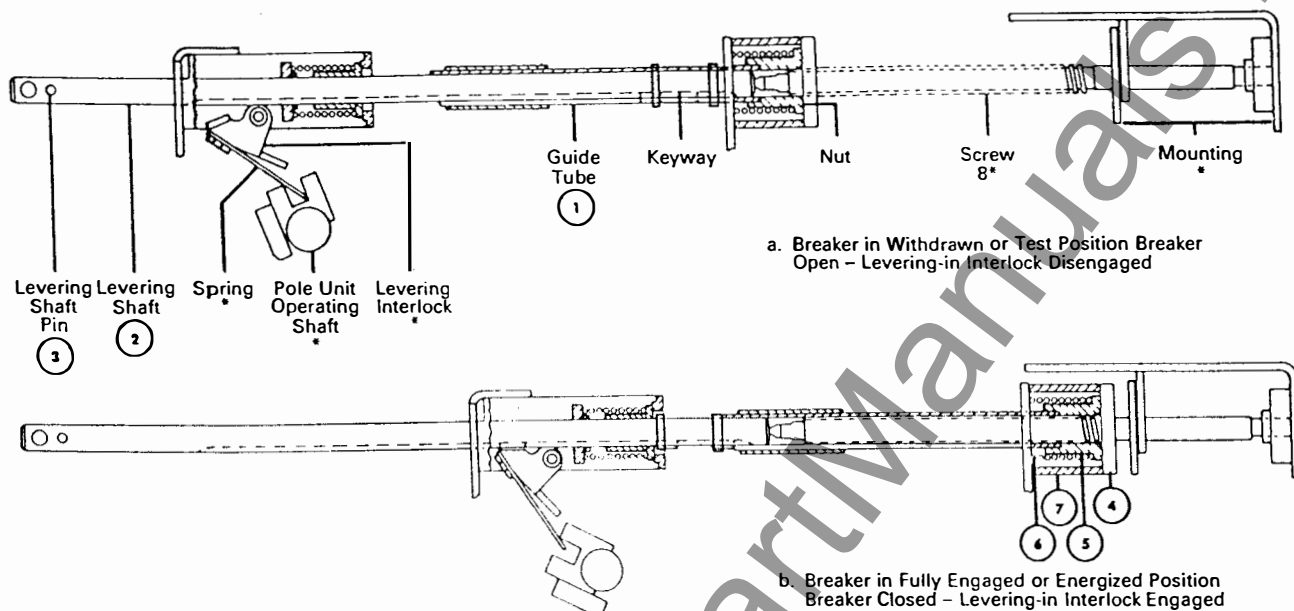


Figure 16. Schematic of Levering-in Device and Interlock

Breaker	Levering-in Assembly Replacement Kit ^①	Breaker	Tube and Nut Assembly ^②	Breaker	Levering-in Screw Figure 16 Item 8
50DHP75 50DHP250	8068A62G01	50DHP75 50DHP250	8252A34G01	50DHP75 50DHP250	423D184G01
50DHP350 1200/2000 A	8068A62G02	50DHP350 1200/2000 A	8252A34G01	50DHP350 1200/2000 A	140D010G01
50DHP350 3000 A	8068A62G04	50DHP350 3000 A	8252A36G01	50DHP350 3000 A	449D384G01
75/150DHP500 150DHP500 150DHP750C 150DHP1000	8068A62G03	75/150DHP500 150DHP500 150DHP750C 150DHP1000	8252A35G01	75/150DHP500 1200/2000 A 2500/3000/3750 A	423D184G02 563F073G04
				150DHP750C/1000 1200/2000 A 2500/3000/3750 A	423D184G02* 568F073G04

^① Levering-in Assembly Replacement Kit consists of:

1. Tube and Nut Assembly
2. Shaft Assembly
3. Levering Shaft Pin
4. Back Plate
5. Spring
6. Washer
7. Spacer

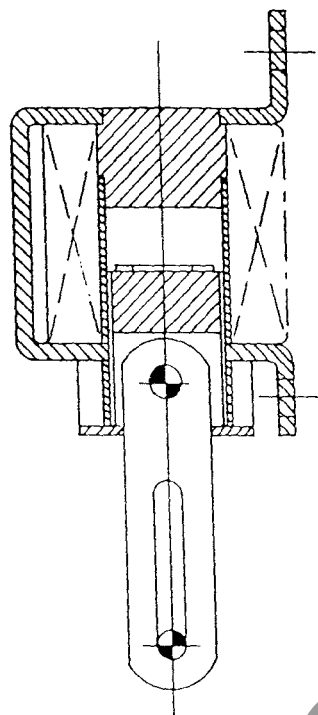
Assembly Drawing

^② The tube and nut assembly is available as a separate entity for breakers built after 1982. For breakers built prior to 1982, the complete levering-in device – must be ordered.

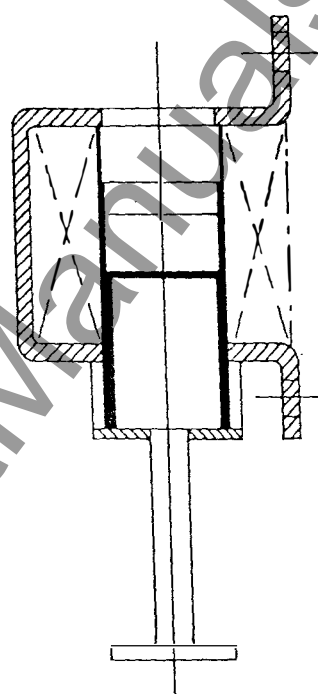
*The schematic view above shows the screw and mounting which are part of the breaker housing; and the spring, pole unit operating shaft and levering interlock which are on the breaker. None of these items are part of the Replacement Kit.

Control Items – Continued from Page 3

SPRING RELEASE/SHUNT TRIP MAGNETS



Magnet – Link Type
Ref. Dwg. 592C921



Magnet – Plunger Type
Ref. Dwg. 310C666

Undervoltage Trip Device – Not Applicable to Breakers with Cast Stored Energy or Solenoid Operated Mechanisms.

In order to replace an existing undervoltage device, without the coil, for application to any DHP breaker, order Style Number 590C950G02. Refer to Table below for coil style/rating identification.

① In order to add an undervoltage attachment to any existing DHP breaker, refer to the following Table.

50DHP75/250	1200/2000 Amp	693C611G01*
50DHP350	1200/2000 Amp	693C611G02*
50DHP350	3000 Amp	693C611G03*
75/150DHP	1200/2000/3000A	693C611G04*

Undervoltage Coils

48 VDC	6911D45G09
125 VDC	6911D45G05
250 VDC	6911D45G01
Capacitor Time Delay	677C904G01

① Included with this assembly are the following:
Mechanism Panel
Undervoltage Trip – Less the Coil
Undervoltage Reset Lever
Adjustable Shunt Trip

*Undervoltage coil must be ordered separately.



Parts for Breakers Having Cast Stored Energy Mechanisms

Ref. I.B. 32-253-1 Breaker Ref. Drawings 122D122 – 122D123 – 122D124

Closing Latch and Trigger-Kit	Fig. 7a, Page 22 Items 2 and 14. All Breaker Ratings	792A244G01
Trip Latch and Trigger-Kit	Fig. 8a, Page 23 Items 2 and 10. All Breaker Ratings	792A245G01
Driving Pawl-Kit	Fig. 7a, Page 22 All Breaker Ratings	792A246G01
Holding Pawl-Kit	Fig. 7a, Page 22 All Breaker Ratings	437B497G02
Closing Springs-Kit	50DHP75/150/250 75DHP250/150DHP150/250/500 150DHP750	792A248G01 792A248G02 792A248G03
Small Springs-Kit	All Breaker Ratings	691C012G01

Parts for Breakers Having Cast Solenoid Operated Mechanisms

Trip Latch and Trigger-Kit	Fig. 10a Page 25 Items 1 and 13 50DHP 150DHP	792A247G01 792A247G02
Small Springs-Kit	50DHP 75/150DHP	691C013G01 691C013G02

Parts for Breakers Having Cast Stored Energy and Solenoid Operated Mechanisms

Latch Check Switch	Fig. 11a Page 26 Item 12 All ratings	662A143H01
Miscellaneous Springs-Kit	All ratings	691C011G01
Opening Springs-Kit	50DHP- Cast Stored Energy 75/150DHP- Cast Stored Energy 50DHP- Cast Solenoid 75/150DHP- Cast Solenoid	691C014G01 691C014G02 691C014G03 691C014G04

Moving Contact – Operating Rod (Lift Rod). Please refer to Pages 7 or 9, RPD Data 32-253-4C for correct style identity for *all* DHP breakers.

Puffer Tube Assembly. Please refer to Pages 7 or 9, RPD Data 32-253-4C for correct style identity for *all* DHP breakers.

DHP HOUSING – PARTS

Shutter Assembly Complete

Figure 17 Item 1

50DHP250	1200/2000A	437D937G01
50DHP350	1200/2000A	792A121G01
50DHP350	3000A	449D767G01
75/150DHP500/750	1200/2000A	437D938G01
150DHP750C/1000	1200/2000A	437D938G03
75/150DHP500/750	2500 to 3750A	792A141G01
150DHP750C/1000	2500 to 3750A	792A142G01

Shutter Only

50DHP250/350	1200/2000A	437D237G02
50DHP350	3000A	449D767G02
75/150DHP500/750	1200/2000A	437D938G02
150DHP750C/1000	1200/2000A	437D938G02
150DHP750C/1000	2500 to 3750A	151D697G01
75/150DHP500/750	2500 to 3750A	151D697G01

Secondary Contact Receptacle

Figure 17 Item 2

All Breakers	4A7850A05
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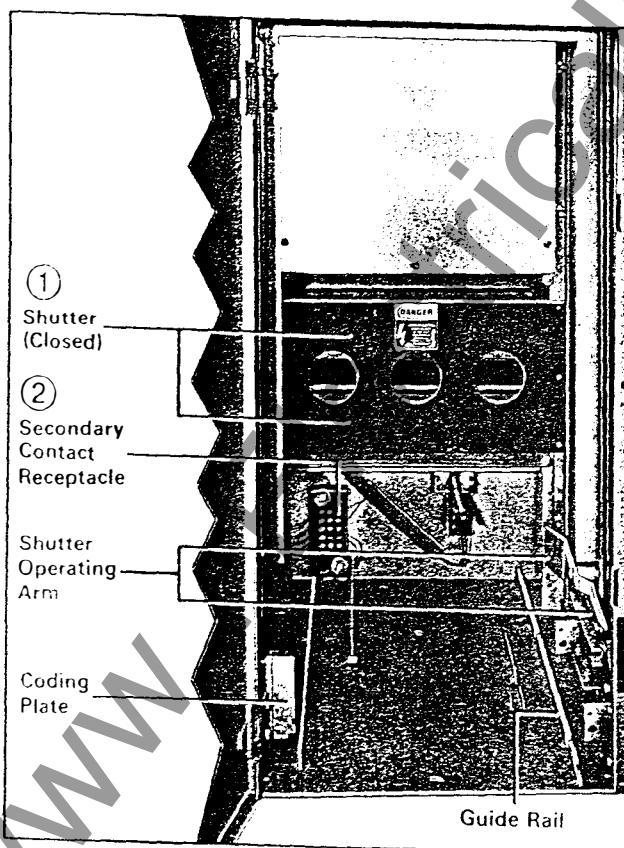


Figure 17. Indoor 50DHP250 Breaker Housing with Shutter Closed (393185)

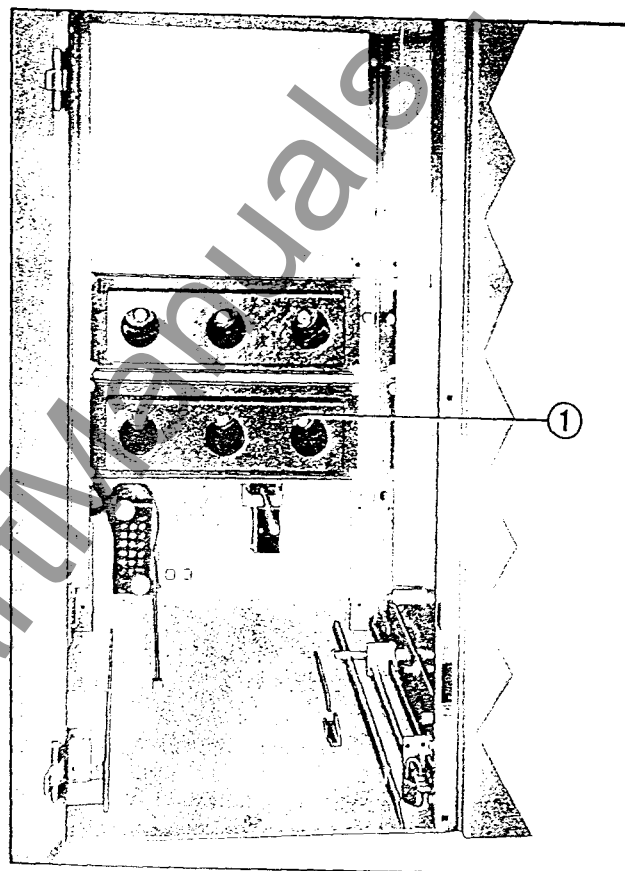


Figure 18: Indoor and Outdoor: 5 kV Breaker Housing with Shutter Removed

Bottle Barrier

Figure 18 Item 1

50DHP250/350	1200-2000A	502A540H01
		502A540H02
50DHP350	3000A	449D774G01
75/150DHP	1200/2000A	502A542H02
	2500/3000A	592C527G01
	3750A	792A143G01

Truck Operated Cell Switch – (TOC)

Figure 20

In order to replace or add a switch to an existing unit.

Replacement Kit 1 Switch 792A091G01

In order to add a TOC switch assembly to any DHP gear

For 50DHP250 All
1 Switch Installation Kit 792A092G01
2 Switch Installation Kit 792A092G02
3 Switch Installation Kit 792A092G03

For 50DHP350 1200/2000 Amp
1 Switch Installation Kit 792A093G01
2 Switch Installation Kit 792A093G02
3 Switch Installation Kit 792A093G03

For 50DHP350 3000 Amp
1 Switch Installation Kit 792A094G01
2 Switch Installation Kit 792A094G02
3 Switch Installation Kit 792A094G03

For 75/150-DHP All
1 Switch Installation Kit 792A095G01
2 Switch Installation Kit 792A095G02
3 Switch Installation Kit 792A095G03

NOTE: For MOC Information – See Page 25

Breaker Position Interlock^①

Figure 21

50DHP250 1200/2000A 792A146G01
50DHP350 1200/2000A 792A146G02
50DHP350 3000A 792A146G03
75/150-DHP All 792A146G04

① Same hardware as MOC switch pan assembly.

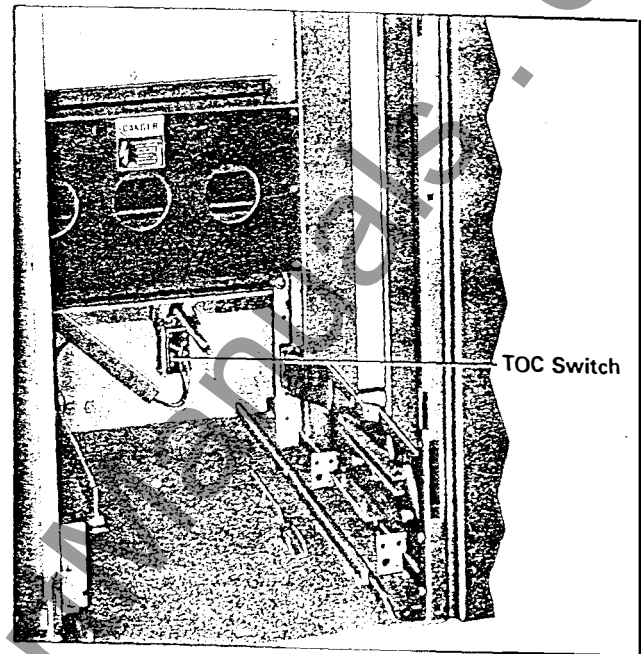


Figure 20. Indoor 50DHP250 Circuit Breaker Housing with TOC Switches (393174)

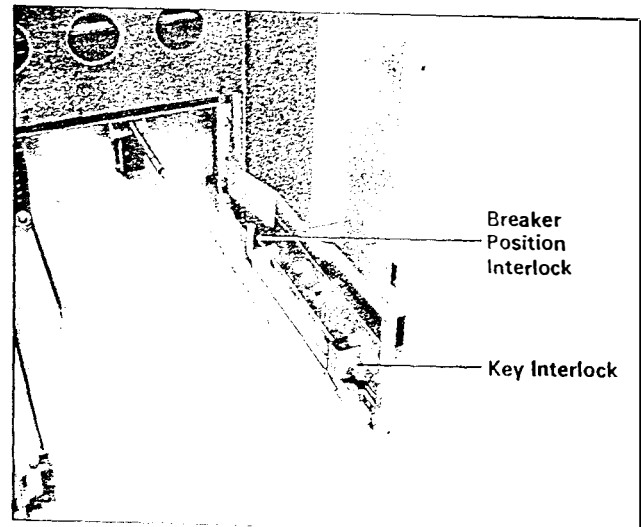


Figure 21. Breaker Position Interlock Unlocked Position (376474)

**Mechanism-Operated Cell Switch
(MOC-Switch)****Figure 22**

In order to replace or add a switch to an existing unit.

Replacement kit for all DHP application, except

750C/1000 Breakers – 1 Switch	792A147G01
2 Switch	792A147G02
750C/1000 Breakers – 1 Switch	792A148G01
2 Switch	792A148G02

In order to add an MOC switch assembly to any DHP unit.

50DHP250 1200/2000 Ampere

Operates in Connected/Test Position

1 Switch – Installation Kit	693C612G01
2 Switch – Installation Kit	693C612G02
3 Switch – Installation Kit	693C612G03

Operates in Connected Position Only

1 Switch – Installation Kit	693C612G04
2 Switch – Installation Kit	693C612G05
3 Switch – Installation Kit	693C612G06

50DHP350 1200/2000 Ampere

the relay Operates in Connected/Test Position

1 Switch – Installation Kit	693C613G01
2 Switch – Installation Kit	693C613G02
3 Switch – Installation Kit	693C613G03

Operates in Connected Position Only

1 Switch – Installation Kit	693C613G04
2 Switch – Installation Kit	693C613G05
3 Switch – Installation Kit	693C613G06

50DHP350 3000 Ampere

Operates in Connected/Test Position

1 Switch – Installation Kit	693C614G01
2 Switch – Installation Kit	693C614G02
3 Switch – Installation Kit	693C614G03

Operates in Connected Position Only

1 Switch – Installation Kit	693C614G04
2 Switch – Installation Kit	693C614G05
3 Switch – Installation Kit	693C614G06

75/150DHP500/750 – All Ratings

Operates in Connected/Test Position

1 Switch – Installation Kit	693C615G01
2 Switch – Installation Kit	693C615G02
3 Switch – Installation Kit	693C615G03

Operates in Connected Position Only

1 Switch – Installation Kit	693C615G04
2 Switch – Installation Kit	693C615G05
3 Switch – Installation Kit	693C615G06

150DHP750C/1000 – All Ratings

Operates in Connected/Test Position

1 Switch – Installation Kit	693C616G01
2 Switch – Installation Kit	693C616G02
3 Switch – Installation Kit	693C616G03

Operates in Connected Position Only

1 Switch – Installation Kit	693C616G04
2 Switch – Installation Kit	693C616G05
3 Switch – Installation Kit	693C616G06

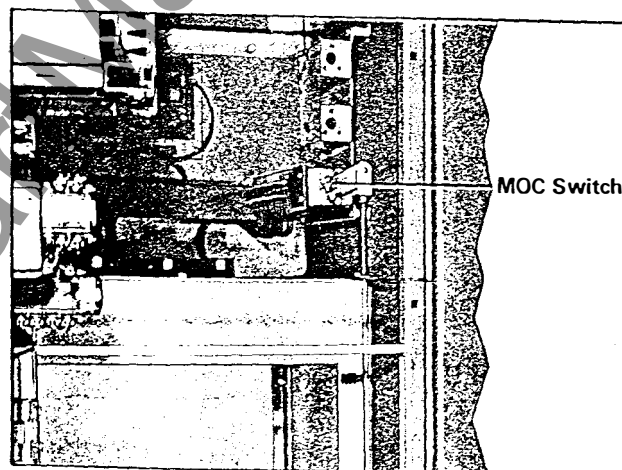


Figure 22. Indoor 50DHP250 Circuit Breaker Housing with
MOC Switch (393174)



Porcelain Bus Support

Figure 24

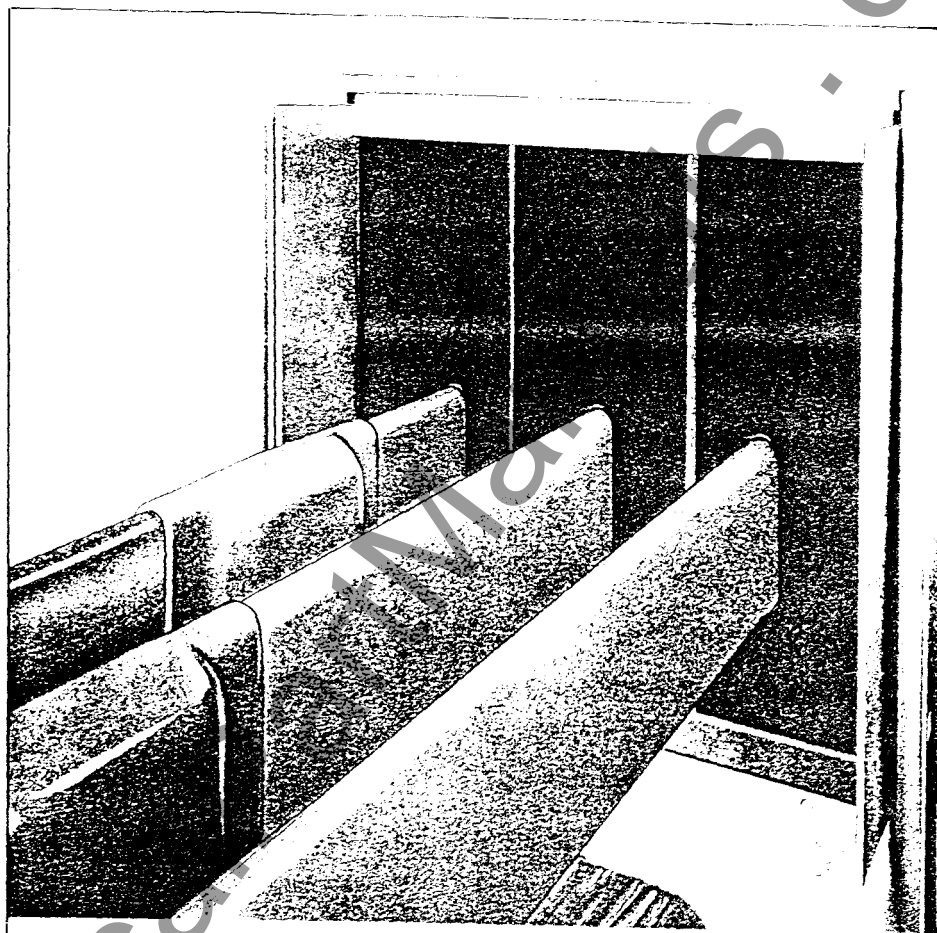
50DHP 250/350 All Ratings

.5 x 4 Bus	437D923G02	3 Required
.5 x 6 Bus	437D923G03	3 Required
.5 x 8 Bus	437D923G04	3 Required

75/150 DHP All Ratings

.5 x 4 Bus	437D923G06	2 Required
.5 x 4 Bus	437D923G10	1 Required ^①
.5 x 6 Bus	437D923G07	2 Required
.5 x 6 Bus	437D923G11	1 Required ^②
.5 x 8 Bus	437D923G08	2 Required
.5 x 8 Bus	437D923G12	1 Required ^③

- ① Set of 3 required for .5 x 4 Bus
② Set of 3 required for .5 x 6 Bus
③ Set of 3 required for .5 x 8 Bus



Porcelain Bus Support

Buses and joints are made of flat aluminum bar completely insulated. Copper conductor is available as an option. The bus insulation is flame retardant tubing. Each conductor of the main bus is held in a one piece

porcelain support at the rear between adjacent units. Bus structure is also front accessible by removing cover just above upper primary contact cover.

Fig. 24

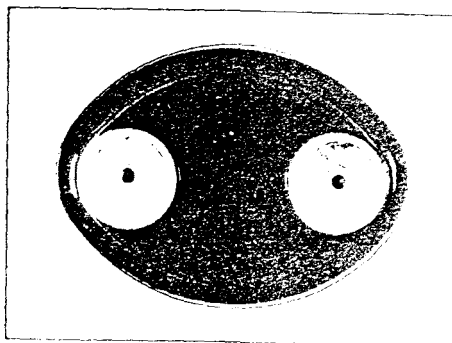


Fig. 25

Potential Transformer Compartment Secondary Contacts 5 and 15 kV

Replacement Block - Mounting	18B1225G09
Replacement Block - Mounting	18B1225G10

PT Cable Bushing
All App. - 128A023H01

Porcelain Standoff Insulator

Figure 25

Part Number 437D924G01

**DFS Switch Parts**
Manually
Operated
5 KV 600A/1200A

L.H. Main Blade 116D921G09
R.H. Main Blade 116D921G10
Flicker Blade 204B953G01
L.H. Arc Chute 436D018G07
R.H. Arc Chute 436D018G08
Interphase Barrier 434D506H15

DFS Switch Parts
Manually
Operated
15 KV 600A/
1200A

L.H. Main Blade 116D921G03
R.H. Main Blade 116D921G04
Flicker Blade 116D953G01
L.H. Arc Chute (600A) 436D018G07
R.H. Arc Chute (600A) 436D018G08
L.H. Arc Chute (1200A) 448D093G02
R.H. Arc Chute (1200A) 448D093G03
Interphase Barrier 423D219H16

DFS Fuse Clips
5/15 KV 600A/
1200A

*1320188 *8B1675H03
*1320189 *8B1675H04
*1B8463H03 *666A072H01
*85D0146H03
*8D4144H03

FSP Switch Parts
15 KV only 1200A

Blade 590C732G01
Blade 590C732G02
Flicker Blade 437B349G01
Arc Chute 140D883G01
Interphase Barrier 591C925H01
Fuse Clips 666A072H01

*Because of the uncertainty as to the type of fuses mounted in the DFS switch, in the field, (CLE-CLS-BAL, etc) it will be necessary to furnish the shop order number, to the Commercial Division of the Distribution and Protection Business Unit, for correct identity of the available fuse clips.

Accessories for DHP Switchgear

Description of Accessory	Style Number	Application
Maintenance Handle	503B141G01	All breakers except 50DHP350, 150DHP750C and 150DHP1000
	590C456G01	50DHP350, 150DHP750C and 150DHP1000
Levering-in Crank	509A931G01	All breaker ratings
Arc Chute Lifter (Not required with 50DHP75 and 50DHP250)	591C719G01 677C888G01 678C320G02	50DHP350 All 7.5 and 15 kV breakers except 150DHP750C and 150DHP1000 150DHP750C and 150DHP1000
Arc Chute Remover	591C718G01	For 50DHP350 only
Turning Dolly	677C889G01 677C889G03	All breakers except 150DHP750C and 150DHP1000 150DHP750C and 150DHP1000
Transfer Truck	6896D31G01 6896D31G04 6896D31G02	For outdoor aisleless assemblies 5 kV and 25" wide 50DHP350, 1200/2000A All 7.5 and 15 kV (Except 150DHP750C and 150DHP1000) and 36" wide 50DHP350, 3000A 150DHP750C and 150DHP1000
Test Cable	449D205G01	All breaker ratings
Test Plug	1164046	All breaker ratings
Spanner Nut Wrench	502A850G01 795A462G01	All breaker ratings, except 50DHP350, 3000A. 50DHP350, 3000A.
Test Cabinet with Jumper	628F100G01 628F100G17 628F100G49	All breaker ratings, Any D.C. All breaker ratings, Any A.C. Close, standard D.C. trip All breaker ratings, stored energy, any A.C. close, capacitor trip
Handle and Latch Kit	792A122G01 792A140G01	For formed door - all breaker ratings For flat door - all breaker ratings
Touch Up Paint	32220BW00S 32220BV00T	Indoor - light gray - standard 16 ounce spray can Outdoor - exterior - dark gray one quart can
Lubrication		Refer to I.B. 32-253-4A, Page 40, for recommendations on lubrication. Breaker mechanism - 14 oz. tube Breaker main contacts - quart can
Molybdenum Disulphide Grease	53701QB12J	
Graphite grease	53701AN00T	
Hardware - Standard hardware such as bolts, nuts, washers, etc. are not listed in this data. Such items should be purchased locally. Hardware should be a minimum of SAE Grade 5.		
DHP Special Fastener Kit	8184A69G01	
DVP Special Fastener Kit	8065A19G01	



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