Nuclear Services/Engineering Services

Nuclear Safety Related Low-Voltage Power Circuit Breakers and Cell Parts — Types DS and DSL
This publication covers the following breakers.

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Frame Size Amperes</th>
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<tbody>
<tr>
<td>DS-206</td>
<td>600 &amp; 800</td>
</tr>
<tr>
<td>DSL-206</td>
<td>600 &amp; 800</td>
</tr>
<tr>
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<td>1600</td>
</tr>
<tr>
<td>DSL-416</td>
<td>1600</td>
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<tr>
<td>DS-420</td>
<td>2000</td>
</tr>
<tr>
<td>DS-532</td>
<td>3200</td>
</tr>
<tr>
<td>DS-632</td>
<td>3200</td>
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</tbody>
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Figure 2 – View Showing Controls on the Panel

Figure 3 – Type DS-206 and Type DS-632 Breakers in Connected Position
The illustrations in this Renewal Parts Data show parts and sub-assemblies that are identified by name and part number. Additional information and illustrations are shown in the Maintenance Program Manual (MPM-DS Breaker), which shows many sub-assemblies and detail parts in order to illustrate their function and location in the assembly. Some of the detail parts are shown in the manual 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 part number in the following pages.

If the item in question cannot be identified by part 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 as shown on the nameplate on the front cover of the circuit breaker.

## Parts Identification

### Circuit Breaker Maintenance Interval and Service Life Recommendations, in Number of Cycles a.

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Service Life Limitation</th>
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<tr>
<td>DS-206, DSL-206</td>
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<td>DS-416, DSL-416, DS-420</td>
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<td>DS-532, 632</td>
<td>1500</td>
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### Breaker Devices & Cell Parts

<table>
<thead>
<tr>
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<th>Description</th>
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<tr>
<td>151D062G02</td>
<td>DSL-206, DSL-416, DSL-420</td>
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<tr>
<td>151D062G03</td>
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<tr>
<td>151D062G04</td>
<td>DSL-416, DSL-532, DSL-632</td>
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<td>151D062G05</td>
<td>DSL-532, DSL-632</td>
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<tr>
<td>140D776G02</td>
<td>DSL-206, DSL-416, DSL-532, DSL-632</td>
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<tr>
<td>140D776G05</td>
<td>DSL-416, DSL-532, DSL-632</td>
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<td>140D776G06</td>
<td>DSL-532, DSL-632</td>
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### Circuit Breaker Refurbishments a.

<table>
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<tr>
<th>Model Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>DS-206</td>
<td>Manually Operated Circuit Breaker 151D062G01R</td>
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<tr>
<td>DS-206</td>
<td>Power Operated Circuit Breaker 151D062G02R</td>
</tr>
<tr>
<td>DS-416</td>
<td>Manually Operated Circuit Breaker 151D062G03R</td>
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<td>DS-416</td>
<td>Power Operated Circuit Breaker 151D062G04R</td>
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<td>DS-420</td>
<td>Manually Operated Circuit Breaker 151D062G05R</td>
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<td>DS-420</td>
<td>Power Operated Circuit Breaker 151D062G06R</td>
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<td>DS-532</td>
<td>Manually Operated Circuit Breaker 449D555G05R</td>
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<tr>
<td>DS-532</td>
<td>Power Operated Circuit Breaker 449D555G06R</td>
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<td>DS-632</td>
<td>Manually Operated Circuit Breaker 151D062G07R</td>
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<td>DS-632</td>
<td>Power Operated Circuit Breaker 151D062G08R</td>
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<td>DSL-206</td>
<td>Manually Operated Circuit Breaker 140D776G01R</td>
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<td>DSL-206</td>
<td>Power Operated Circuit Breaker 140D776G02R</td>
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<td>DSL-416</td>
<td>Manually Operated Circuit Breaker 140D776G05R</td>
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<tr>
<td>DSL-416</td>
<td>Power Operated Circuit Breaker 140D776G06R</td>
</tr>
</tbody>
</table>

A. The shop order number of the breaker being replaced must be provided at time of RFQ or order entry.

B. DS-632 breakers supersede DS-532 breakers.

C. Westector is the direct replacement for the discontinued Amptector.

Notes: The UVTA is reset with every cycle of the breaker, regardless of the method of trip. The original seismic testing of the OTS switch showed contact bounce in excess of 200 milliseconds. The 8000 cycle life of the charging motor, SRD, and STA are for the DS-206 and DSL-206 breakers only. In the other applications the life of these devices is limited, by test, to the breaker limits.

### Recommended Spare Parts

Spare parts recommended for stocking are indicated in the following data by the symbol ®. An adequate stock of spare parts will help minimize emergency situations and can substantially reduce production downtime.

The amount of investment to be made in spare parts stock can be dependent on a number of individual factors. The item recommended and the quantities specified below are intended as a guide.

- For 1 to 5 Breakers - 1 set of items marked ®, in sufficient quantity for one breaker.
- For 6 to 10 Breakers - 2 sets of items marked ®, in sufficient quantity for two breakers.
- For 10 or more Breakers - 1 complete spare breaker for every 10 breakers and 2 sets of items marked ®.

The circuit breaker requiring refurbishment must be shipped to Nuclear Parts Operations, New Stanton, PA 15672.
Figure 4 – DS-416 Breaker with Front Panel Removed

Figure 5 - Rear View Showing Levering Device Arm In Connect Position
Items Common to All Breaker Types

Hardware
Standard hardware such as bolts, nuts, washers, etc., are not listed in this data. Damaged or worn hardware should be replaced with hardware of SAE grade 5 or better, and purchased locally where available.

DS Breaker Fastener Kit 3586A86G01

Kit includes an assortment of retaining rings, tru-arc rings, “E” rings and “X washers” in a plastic bag. One kit is recommended for 1 breaker, two for 2 to 5 breakers, three for 6 to 20 breakers, and four for more than 20 breakers.

Lubricants Part Number
Graphite Grease, 1 qt. 53701AN00T
Lubriplate 130A, 14 oz. 53701HE10Q
MolyKote BR2 Plus, 14.1 oz. 53701QB12J

Material safety data sheets are available for the lubricants listed, but will only be provided when specifically requested on the order.

Breaker Operational & Test Accessories Part Number
Westector/Amptector Test Kit 8779C02G02
Arcing Contact Adjustment Tool 795A076TXC
Arcing Contact Gap Tool 012693-1
Closing Spring Tool 567F467TXA
Levering Crank 436B696G01
Lifting Bar & Hook Assembly 694C614G02
Primary Contact Disconnect Tool 591C901G01
UVTA Trip Margin Gage 693C354G01

Breaker Front Cover & Accessories Part Number
Faceplates A
DS-206, DS-416, DS-420 567F498H01
DS-532, DS-632 567F499H01
DSL-206, DSL-416 567F498H02

Breaker Labels
Label Kit 8187A84G01
Includes the following labels:
Auxiliary Switch
Danger Sign
Levering Position Indicator
Levering Shutter
Spring Charged/Discharged
Trip Button

Other Parts
Faceplate Handle 72060BA00B
Westector Terminal Cover 591C470H01

Manual

MPM-DS BREAKER Maintenance Program Manual for Safety Related Type DS Low-Voltage Metal-Enclosed Switchgear

Miscellaneous Breaker Parts Figure Part Number
Breaker Rollers A 5 349A473H01
Compartment Trip Lever (all DS breakers except DS-532/632) - 8295A03G01
Compartment Trip Lever DS-532/632 - 8295A15G01
DS-206, 416 Breaker Interference Bracket - 435B461H01
Operations Counter - Left Hand - 592C890G01
Operations Counter - Right Hand 4 698B825G01
Pole Shaft Kit s. c - 680C790G01 KIT
Secondary Contact Frame - 5D63640G01
Secondary Disconnect Contact Block - 8 contacts o 5 591C498G06
Secondary Disconnect Contact Cover o 5 503B569H01
Seismic Positioner 24 795A493H01

A. Fastener kit required when ordering rollers.
B. Not applicable for DS-532/632 breakers.
C. For DS-532/632 pole shafts, contact NPO with original shop order information.
D. Includes mounting hardware.

Wire Guides A Figure Part Number
Inside Left - 3702A37G01
Outside Left 5 437B224H01
Rear of Westector - 588C990H01
Right of Westector - 436B111H01

A. Wiring guides, when used, are located on the left side of the breaker with inside and outside guides. One guide is also located at the rear of the Westector and one between the right side of the Westector and auxiliary switches.

Part Description Part Number
DS Breaker Spring Kit 1 4A48813G10
Spring, Anti-Bounce Reset, DS 1 788A549H01
Spring, Hold Pawl, DS 1 349A481H02
Spring, Latch (Close Prop), DS 1 794A207H01
Spring, Motor Cut-off Switch, DS 1 436B621H03
Spring, Oscillator Reset, DS 1 503B601H11
Spring, Overcurrent Trip Switch Reset, DS 1 436B621H07
Spring, Pushbutton, DS 1 503B603H01
Spring, Reset/Opening, DS 1 698B907H01
Spring, Shutter, DS 1 503B410H18
Spring, Spring Charged Indicator, DS 1 436B621H06
Spring, Trip Latch Reset, DS 1 795A077H01
Spring, Trip Shaft Return, DS 1 436B621H05

A. Faceplates do not include labels, handles or terminal cover. Order these separately.
Type DS-206 and DSL-206 pole unit. DS-206 pole unit is illustrated. DSL-206 pole unit is similar.

**Figure 6 – DS-206 Pole Unit Assembly (Front View Left and Rear View)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Figure Number</th>
<th>Item Number</th>
<th>Number Required per Breaker</th>
<th>Part Number</th>
<th>Number Required per Breaker</th>
<th>Part Number</th>
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</table>

A. See page 17, figure 17-1, for illustration of the DSL-206.
B. X-washers for pin installation listed on page 5 under DS circuit breaker fastener kit.
C. Not included in pole unit assembly.
® Recommended spare - See page 3.
Type DS-416, DSL-416, and DS-420 pole unit

DS-416 pole unit is illustrated. DSL-416 and DS-420 pole units are similar.

![Diagram of DS-416 pole unit](image)

<table>
<thead>
<tr>
<th>Description</th>
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<th>DSL-416 A</th>
<th>DS-420</th>
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<td>Molded Base</td>
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<tr>
<td>Upper Stud Assembly - Stationary</td>
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<td>Lower Stud Assembly - Moving</td>
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<tr>
<td>Following Are Included in Upper Stud Assembly:</td>
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<tr>
<td>Stationary Arcing Contact- R.H.</td>
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<td>Stationary Arcing Contact- L.H.</td>
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<td>Stationary Main Contact Spring - Outer</td>
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<td>Moving Main Contact</td>
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<tr>
<td>Center Pole</td>
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<tr>
<td>Main Disconnecting Contact Assembly</td>
<td>6</td>
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</tr>
</tbody>
</table>

A. See page 17, figure 17-2, for illustration of the DSL-416.
B. Assembly of the stationary main contact fingers and inner and outer springs is difficult. The upper stud assembly is recommended for the DSL-416 and DS-420.
C. Changing the moving main contact is complicated because of a drilling and pinning operation. The lower stud assembly is recommended for the DS-420.
D. X-washers for pin installation listed on page 5 under DS circuit breaker fastener kit.
E. Not included in pole unit assembly.

® Recommended spare – See page 3.
TYPE DS-532 AND DS-632 POLE UNIT
DS-632 pole unit is illustrated and is the replacement for DS-532 pole unit.

DS-532 & DS-632

<table>
<thead>
<tr>
<th>Description</th>
<th>Figure Number</th>
<th>Item Number</th>
<th>Number Required per Breaker</th>
<th>Part Number</th>
</tr>
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<tbody>
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<td>Molded Base</td>
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<td>5</td>
<td>-</td>
<td>6</td>
<td>682C347G02</td>
</tr>
</tbody>
</table>

A. Assembly of the stationary main contact fingers and inner and outer springs is difficult. The upper stud assembly is recommended.
B. Assembly of the moving main contact is difficult. The lower stud assembly is recommended.
C. X-washers for pin installation listed on page 3 under DS circuit breaker fastener kit.
D. Not included in pole unit assembly.
® Recommended spare – See page 3.
Arc Chutes and Barriers

Figure 9 – Left - Breaker with barrier removed to show mounting arc chutes and right: DS-632 breaker with front panel removed.

Figure 10 – Left: DS-206 Arc Chute, Middle: DS-416/420 arc chute, and Right: DS-532/632 Arc Chute.

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Figure Number</th>
<th>Assembled Arc Chute &amp; Mounting Screw</th>
<th>Outer Removable Insulating Barriers</th>
<th>Inner Removable Insulating Barriers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Number Required per Breaker</td>
<td>Part Number</td>
<td>Number Required per Breaker</td>
</tr>
<tr>
<td>DS-206</td>
<td>9</td>
<td>3</td>
<td>449D508G01</td>
<td>2</td>
</tr>
<tr>
<td>DSL-206</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS-416</td>
<td>9</td>
<td>3</td>
<td>151D018G01</td>
<td>2</td>
</tr>
<tr>
<td>DSL-416</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS-420</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS-532 a</td>
<td>9</td>
<td>3</td>
<td>151D018G02</td>
<td>2</td>
</tr>
<tr>
<td>DS-632 c</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A. Except for early vintage pole bases with end notches, use 788A586H01.
B. DS-532 arc chutes and insulating barriers must be replaced as sets, when replaced the first time.
C. DS-632 "non-" removable side insulation 2-PCS 436B109H01.
Operating Mechanism and Related Parts

Figure 11 – Left side view of power-operated mechanism with left-hand closing spring removed

Figure 12 – Rear view of power-operated mechanism

Figure 13 – Front View of power-operated mechanism

Figure 14 – Trip shaft

Figure 15 – Rear view manual mechanism with closing spring assembly removed
# Operating Mechanism and Related Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Number Required per Breaker</th>
<th>Figure Number</th>
<th>Item Number</th>
<th>Part Number</th>
<th>Power Operated</th>
<th>Manual Operated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanism Assembly (includes one set of appropriate, Closing Springs, (1) Anchor pin, (1) RH and (1) LH Spacer)</td>
<td>-</td>
<td>13</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS-206</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2A10022G02</td>
<td></td>
<td>2A10022G01</td>
</tr>
<tr>
<td>DS-416</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2A10022G06</td>
<td></td>
<td>2A10022G05</td>
</tr>
<tr>
<td>DS-420</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2A10022G04</td>
<td></td>
<td>2A10022G03</td>
</tr>
<tr>
<td>DS-532</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2A10022G10</td>
<td></td>
<td>2A10022G09</td>
</tr>
<tr>
<td>DS-632</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2A10022G08</td>
<td></td>
<td>2A10022G07</td>
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</table>

**Following Are Included in Mechanism Assembly:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Number Required per Breaker</th>
<th>Figure Number</th>
<th>Item Number</th>
<th>Part Number</th>
<th>Power Operated</th>
<th>Manual Operated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanism Assembly (DS-532/632) A</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>567F759G02</td>
<td></td>
<td>567F759G01</td>
</tr>
<tr>
<td>Closing Spring Assembly (includes one set of appropriate springs, one anchor pin, one RH and spacer and one LH spacer) as follows:</td>
<td>1</td>
<td>12</td>
<td>12</td>
<td>12 12 -</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS-206 Spring A</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>349A521G01</td>
<td></td>
<td>349A521G01</td>
</tr>
<tr>
<td>DS-416 Spring A</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>791A671G02</td>
<td></td>
<td>791A671G02</td>
</tr>
<tr>
<td>DS-420 Spring A</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>791A671G01</td>
<td></td>
<td>791A671G01</td>
</tr>
<tr>
<td>DS-532 Spring A</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>791A671G01</td>
<td></td>
<td>791A671G01</td>
</tr>
<tr>
<td>Anchor Pin A</td>
<td>1</td>
<td>11</td>
<td>13</td>
<td>349A515H01</td>
<td></td>
<td>349A515H01</td>
</tr>
<tr>
<td>Anti-Bounce Reset Spring</td>
<td>1</td>
<td>13</td>
<td>16</td>
<td>789A549H01</td>
<td></td>
<td>789A549H01</td>
</tr>
<tr>
<td>Charging Plate A</td>
<td>2</td>
<td>-</td>
<td>-</td>
<td>794A966H01</td>
<td></td>
<td>794A966H01</td>
</tr>
<tr>
<td>Emergency Charge Device A</td>
<td>1</td>
<td>13</td>
<td>4</td>
<td>436B025G01</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Emergency Charge Pawl Assembly</td>
<td>1</td>
<td>12</td>
<td>19</td>
<td>794A117G02</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Hold Pawl Spring</td>
<td>1</td>
<td>13</td>
<td>16</td>
<td>794A117G01</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Hold Pawl Assembly</td>
<td>1</td>
<td>13</td>
<td>18</td>
<td>349A481H02</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Label – Breaker Open/Closed b</td>
<td>1</td>
<td>13</td>
<td>-</td>
<td>13 13 -</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Label – Spring Charged/Discharged b</td>
<td>1</td>
<td>13</td>
<td>10</td>
<td>13 10 -</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lever (for motor cut-off switch)</td>
<td>1</td>
<td>11</td>
<td>6</td>
<td>791A516H01</td>
<td></td>
<td>791A516H01</td>
</tr>
<tr>
<td>Main Drive Link Assembly (with Banana Link)</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>437B146G01</td>
<td></td>
<td>437B146G01</td>
</tr>
<tr>
<td>Main Drive Link Assembly (with Banana Link) DS-532/632</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>437B146G02</td>
<td></td>
<td>437B146G01</td>
</tr>
<tr>
<td>Main Drive Link Assembly C</td>
<td>1</td>
<td>12</td>
<td>1</td>
<td>437B146G03</td>
<td></td>
<td>437B146G03</td>
</tr>
<tr>
<td>Main Drive Link Assembly DS-532/632 c</td>
<td>1</td>
<td>12</td>
<td>-</td>
<td>437B146G04</td>
<td></td>
<td>437B146G03</td>
</tr>
<tr>
<td>Motor Cut-off Switch Spring</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>@436B621H03</td>
<td></td>
<td>@436B621H03</td>
</tr>
<tr>
<td>Oscillator Assembly</td>
<td>1</td>
<td>12</td>
<td>3</td>
<td>436B923G01</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Oscillator Pawl Assembly</td>
<td>1</td>
<td>13</td>
<td>17</td>
<td>794A117G02</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Oscillator Pawl Spring A</td>
<td>1</td>
<td>13</td>
<td>-</td>
<td>503B601H11</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Oscillator Reset Spring</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>@503B601H11</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Push to Close Button</td>
<td>1</td>
<td>13</td>
<td>8</td>
<td>436B626H01</td>
<td></td>
<td>436B626H01</td>
</tr>
<tr>
<td>Right-Hand Spacer A</td>
<td>1</td>
<td>12</td>
<td>14</td>
<td>786A258H03</td>
<td></td>
<td>786A258H03</td>
</tr>
<tr>
<td>Spring Charge Flag</td>
<td>1</td>
<td>13</td>
<td>10</td>
<td>437B396G01</td>
<td></td>
<td>437B396G01</td>
</tr>
<tr>
<td>Spring Charge Indicator Spring</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>@436B621H06</td>
<td></td>
<td>@436B621H06</td>
</tr>
<tr>
<td>Spring Release Latch Spring</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>795A855G01</td>
<td></td>
<td>795A855G01</td>
</tr>
<tr>
<td>Trip Latch</td>
<td>1</td>
<td>11</td>
<td>5</td>
<td>3755A189G01</td>
<td></td>
<td>3755A189G01</td>
</tr>
<tr>
<td>Trip Latch Reset Spring</td>
<td>1</td>
<td>11</td>
<td>7</td>
<td>@795A077H01</td>
<td></td>
<td>@795A077H01</td>
</tr>
</tbody>
</table>

| Following Are Not Included in Mechanism Assembly:                          | 1                            | 2             | -           | 349A669G03                                                                  |                | D              |
| Manual Charge Assembly (without handle)                                     | 1                            | -             | -           | D 18 -                                                                      |                | 591C385G01     |
| Manual Charge Handle                                                        | 1                            | -             | -           | D 18 -                                                                      |                | 349A669G01     |
| Opening Spring                                                             | 1                            | 4             | -           | @688B907H01                                                                 |                | @688B907H01    |
| Trip Shaft Assembly                                                        | 1                            | 14            | -           | 436B613G01                                                                 |                | 349A613G01     |
| Trip Shaft Return Spring                                                   | 1                            | 14            | 15          | @436B621H05                                                                 |                | @436B621H05    |

A. Not sold separately.  
B. Available only as part of label kit on page 5.  
C. Included in main drive link assembly.  
D. Not required.  
© Recommended Spare – see page 3.
Control Components

Figure 16 – Left: Shunt Trip Attachments, Middle: Overcurrent Switch, Right: Motor cut-off switch

Figure 17 – Left: Spring release device, Middle: Anti-pump relay, Right: Typical Under Voltage Trip Attachment (UVTA)

Figure 18 – Left: Charging motor, Right: Manual charging assembly
<table>
<thead>
<tr>
<th>Description</th>
<th>Figure Number</th>
<th>Voltage</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Cut-off Switch (includes motor cut-off switch, mounting bracket and insulation)</td>
<td>16</td>
<td>125 VDC 250 VDC 120V 60 Hz</td>
<td>4A48863G01</td>
</tr>
<tr>
<td>Overcurrent Trip Switch (OTS) A, C</td>
<td>16</td>
<td>125 VDC 250 VDC</td>
<td>3752A04G06 3752A04G11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 contact 3 contact</td>
<td>3752A04G08 3752A04G13</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 VDC 3 contact</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual</td>
<td>2 contact 3 contact 4 contact</td>
<td>3752A04G01 3752A04G02 3752A04G03</td>
</tr>
<tr>
<td>Shunt Trip Attachment (STA) A, C</td>
<td>16</td>
<td>125 VDC 250 VDC 120V 60Hz</td>
<td>5365C59G01 3752A02G05 3752A02G06</td>
</tr>
<tr>
<td>Anti-Pump Relay</td>
<td>17</td>
<td>125 VDC 250 VDC 120V 60Hz</td>
<td>140D930H04 140D930G05 140D930H01</td>
</tr>
<tr>
<td>Spring Release Device (SRD) A, C</td>
<td>17</td>
<td>125 VDC 250 VDC 120V 60Hz</td>
<td>3752A03G02 3752A03G03 3752A03G04</td>
</tr>
<tr>
<td>Under-Voltage Trip Attachment (UVTA) A, B, C</td>
<td>17</td>
<td>48 VDC 125 VDC</td>
<td>5365C72G01 5365C72G02</td>
</tr>
<tr>
<td>Motor Kit (includes crank and roller and connectors for field replacement)</td>
<td>18</td>
<td>125 VDC 250 VDC 120V 60Hz</td>
<td>449D431G01 449D431G02 449D431G01</td>
</tr>
</tbody>
</table>

A. Available as a complete assembly only.
B. Includes mounting hardware and wire leads for field replacement.
C. Available only as a complete assembly. Coils are not available as a replacement part, as they are riveted into the assemblies.
® Recommended spare – See page 3.
### Levering Mechanism

**Figure 19 – Levering Mechanism Assembly**

<table>
<thead>
<tr>
<th>Description</th>
<th>Number Required Per Breaker</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Levering Mechanism Assembly</td>
<td>1</td>
<td>449D224G04</td>
</tr>
<tr>
<td><strong>Following Are Included in Assembly:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traveling Stop Nut</td>
<td>1</td>
<td>791A674H01</td>
</tr>
<tr>
<td>Retaining Clamp</td>
<td>1</td>
<td>791A679H01</td>
</tr>
<tr>
<td>Nylock Screw (not shown)</td>
<td>2</td>
<td>70001NM28L</td>
</tr>
<tr>
<td>Flat Washer</td>
<td>2</td>
<td>70500BD31B</td>
</tr>
<tr>
<td><strong>Following Are Not Included in Assembly:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crank Arm With Roller</td>
<td>2</td>
<td>786A586G01</td>
</tr>
<tr>
<td>Special Bolt</td>
<td>2</td>
<td>792A024H01</td>
</tr>
<tr>
<td>Elastic Stop Nut</td>
<td>2</td>
<td>70220ERN18</td>
</tr>
<tr>
<td>Lever-in Crank Handle (not shown)</td>
<td>1</td>
<td>436B696G01</td>
</tr>
<tr>
<td>Shutter Assembly</td>
<td>1</td>
<td>786A192G01</td>
</tr>
</tbody>
</table>
Westector Tripping System

Figure 20 – Westector Solid-State Trip Device

Westector Solid-State Trip Device
Westector can be supplied in six combinations of four independent, continuously adjustable overcurrent tripping functions:

- Long delay (L)
- Short delay (S)
- Instantaneous (I)
- Ground (G)

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-L</td>
<td>2D39995G01</td>
</tr>
<tr>
<td>W-LIG</td>
<td>2D39995G02</td>
</tr>
<tr>
<td>W-LS</td>
<td>2D39995G03</td>
</tr>
<tr>
<td>W-LSG</td>
<td>2D39995G04</td>
</tr>
<tr>
<td>W-LSIG</td>
<td>2D39995G05</td>
</tr>
<tr>
<td>W-LSI</td>
<td>2D39995JF06</td>
</tr>
</tbody>
</table>

Test Procedure: LTR-EMPE-04-9 Rev. 1

Westector is the only overcurrent trip system currently manufactured and supported by Westinghouse RRAS.

Sensors
See Figure 21 for typical sensors.

<table>
<thead>
<tr>
<th>Rating Amperes</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>151D995G01</td>
</tr>
<tr>
<td>150</td>
<td>151D995G15</td>
</tr>
<tr>
<td>200</td>
<td>151D995G02</td>
</tr>
<tr>
<td>300</td>
<td>151D995G03</td>
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<tr>
<td>400</td>
<td>151D995G04</td>
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<td>600</td>
<td>151D995G06</td>
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<tr>
<td>800</td>
<td>151D996G08</td>
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<td>1200</td>
<td>151D995G12</td>
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<td>1600</td>
<td>151D995G16</td>
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<tr>
<td>2000</td>
<td>151D995G20</td>
</tr>
<tr>
<td>2400</td>
<td>151D995G24</td>
</tr>
<tr>
<td>3200</td>
<td>151D995G32</td>
</tr>
</tbody>
</table>

Note:
On type DS-206/DSL-206 two spacers 794A965H01 are required for each sensor. See Figure 21.
## Auxiliary Switches

<table>
<thead>
<tr>
<th>Auxiliary Switches A</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>a (early), b, a, b</td>
<td>449D622G28</td>
</tr>
<tr>
<td>a (early), b, b, b</td>
<td>449D622G29</td>
</tr>
<tr>
<td>a, b, a, b</td>
<td>449D622G33</td>
</tr>
<tr>
<td>a, a, a, a</td>
<td>449D622G34</td>
</tr>
<tr>
<td>b, b, b, b</td>
<td>449D622G35</td>
</tr>
<tr>
<td>a, a, a, b</td>
<td>449D622G36</td>
</tr>
<tr>
<td>a, b, b, b</td>
<td>449D622G37</td>
</tr>
<tr>
<td>a, b, a, a, b</td>
<td>449D622G38</td>
</tr>
<tr>
<td>a, b, b, b, c</td>
<td>449D622G39</td>
</tr>
<tr>
<td>a (early), b, b, b, c</td>
<td>449D622G40</td>
</tr>
</tbody>
</table>

a = normally open.
b = normally closed.

A. Breaker shop order number is required to properly identify Figure 16-1 – Auxiliary Switches, a thee-high arrangement is shown with one switch.

B. Reactor trip breaker auxiliary switches are a three-high assembly using G38 at the bottom, G39 at the middle and G40 at the top.

C. Some reactor trip breaker top auxiliary switches may use G28 in place of G40.

<table>
<thead>
<tr>
<th>Auxiliary Switch Accessories</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Front Cover With Screw</td>
<td>449D622G09</td>
</tr>
<tr>
<td></td>
<td>Rear Cover</td>
<td>13D3172H04</td>
</tr>
</tbody>
</table>
DSL-206 and DSL-416 Breakers

Parts for pole units, arc chutes, mechanism, etc., for DSL breakers are identified on preceding pages of this brochure.

<table>
<thead>
<tr>
<th>Description</th>
<th>Figure Number</th>
<th>Number Required per Breaker</th>
<th>DSL-206 and DSL-416 Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blown Limiter Indicator Assembly</td>
<td>24</td>
<td>1</td>
<td>140D777G01</td>
</tr>
<tr>
<td>Isolating Transformer Assembly (includes 3 transformers)</td>
<td>25</td>
<td>1</td>
<td>591C755G01</td>
</tr>
<tr>
<td>Transformer Only</td>
<td>25</td>
<td>3</td>
<td>795A823H01</td>
</tr>
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</table>

Figure 24 – DSL-206 breaker, Front View

Figure 25 – DSL-416 breaker, Side View
### Limiters

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Number Required per Breaker</th>
<th>Rating</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>DSL-206</td>
<td>150</td>
<td>3</td>
<td>140D316G01</td>
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<tr>
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<td>200</td>
<td>3</td>
<td>140D316G02</td>
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<tr>
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<td>250</td>
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<td>140D316G03</td>
</tr>
<tr>
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<td>3</td>
<td>140D316G04</td>
</tr>
<tr>
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<td>400</td>
<td>3</td>
<td>140D316G05</td>
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<tr>
<td></td>
<td>600</td>
<td>3</td>
<td>140D316G06</td>
</tr>
<tr>
<td></td>
<td>800</td>
<td>3</td>
<td>140D316G07</td>
</tr>
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<td>1200</td>
<td>3</td>
<td>140D316G10</td>
</tr>
<tr>
<td></td>
<td>1600</td>
<td>3</td>
<td>140D316G11</td>
</tr>
<tr>
<td></td>
<td>2000</td>
<td>3</td>
<td>140D316G12</td>
</tr>
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<td>DSL-416</td>
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<td>151D932G03</td>
</tr>
<tr>
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<td>151D932G04</td>
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<td>3</td>
<td>151D932G05</td>
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<td>2500</td>
<td>3</td>
<td>151D932G09</td>
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<td>3000</td>
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<td>151D932G10</td>
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Recommend three spare limiters of each current rating.

### Miscellaneous Switchgear Parts

<table>
<thead>
<tr>
<th>Switchgear Structure Hardware</th>
<th>Figure</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Handle</td>
<td>436B451H01</td>
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<tr>
<td>Door Handle Latch</td>
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</tr>
<tr>
<td>RTS Rear Door Latch</td>
<td>19B9140G01</td>
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</tr>
<tr>
<td>Spacer for Handle Latch</td>
<td>349A366H01</td>
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### Bus Work, Contacts & Hardware

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Number of Contacts</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-206, DS-416 Cell Interference Bracket</td>
<td>26</td>
<td>436B677H01</td>
</tr>
<tr>
<td>DS-416, DS-416, DS-420</td>
<td>27</td>
<td>449D395G01</td>
</tr>
<tr>
<td>DS-632 Insulating Boot With CT b</td>
<td>27</td>
<td>140D768H01</td>
</tr>
<tr>
<td>DS-632 Insulating Boot Without CT b</td>
<td>27</td>
<td>140D769H01</td>
</tr>
<tr>
<td>Insulating Boot With CT b, c</td>
<td>140D294H02</td>
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</tr>
<tr>
<td>Insulating Boot Without CT b, c</td>
<td>140D294H01</td>
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<tr>
<td>Primary Bus Insulator DS-206, DSL-206</td>
<td>449D395G03</td>
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### Cell Secondary Contact With Hardware d

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Number of Contacts</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Long and 2 Short Contacts</td>
<td>26</td>
<td>590C808G02</td>
</tr>
<tr>
<td>8 Long Contacts</td>
<td>26</td>
<td>590C808G01</td>
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<tr>
<td>Cell Switches E, F</td>
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### Instrument Compartment Door Hardware

<table>
<thead>
<tr>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compartment Latch Assembly</td>
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<tr>
<td>Door Latch Assembly</td>
</tr>
<tr>
<td>Cell Switch Lever Assembly</td>
</tr>
<tr>
<td>Secondary Contact Mounting Frame</td>
</tr>
<tr>
<td>With Cell Switch Operator Bracket</td>
</tr>
<tr>
<td>With Mounting Hardware</td>
</tr>
<tr>
<td>Spring Retainer Kit</td>
</tr>
<tr>
<td>Lever-in Mounting</td>
</tr>
<tr>
<td>Elastic Stop Nuts – (X2) 10-32</td>
</tr>
<tr>
<td>Nylock Screws – (X2) 10-32 x 0.5”</td>
</tr>
</tbody>
</table>

### Push to Trip Linkage

<table>
<thead>
<tr>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
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</tbody>
</table>

A. See page 3 for service limits on certain cell parts.
B. Six required per compartment.
C. For use in all DS/DSL cells except for DS-532/632.
D. Includes 591C497G01 or 591C497G02 and mounting hardware.
E. Switchgear shop order Number is required to properly identify switch type.
F. Some foreign plant reactor trip switchgear assemblies have cell switches with special mounting brackets.

**Figure 26 – Typical DS-416 Breaker Compartment**

1. Contact Mounting Plate
2. Stationary Main Contact
3. Captive Draw out Extension Rail
4. Breaker Mounting Pan
5. Interference Bracket DS-206, DS-416
6. Cell Switch
7. Secondary Contact Blocks
8. Current Transformer Mounting Holes
9. Ground Contact
10. Push to Trip Mechanism
### Current Transformer Kits a

<table>
<thead>
<tr>
<th>Type</th>
<th>Circuit Breaker Type</th>
<th>Ratio</th>
<th>Figure Number</th>
<th>Part Number</th>
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<td>DS-206</td>
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<tr>
<td>DSL-206</td>
<td>150:5</td>
<td>3A73103G02</td>
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<td>DS-416</td>
<td>200:5</td>
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<td>DSL-416</td>
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<td>DS-420</td>
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<td></td>
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<td>500:5</td>
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<tr>
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<tr>
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<td>1200:5</td>
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<tr>
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<td>DS-632</td>
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<td>4000:5</td>
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</table>

A. To be used for metering and instrumentation only. Do not use for relaying.
PROCEDURE FOR IDENTIFYING BREAKER TYPE

A breaker is identified by the data found on the nameplate. Shop order or S.O. numbers are used to identify breakers. Examples are:

24Y7859
27Y3838
48Y2912
49Y7666
02YN085
860.507

For pricing information contact your Nuclear Parts Specialist at:
http://www.westinghousenuclear.com/ProductLines/Nuclear_Services/rras_customer_service.asp

Ordering Instructions

1. Check the nameplate to identify the type of breaker you have. (If adding accessories or options to existing breakers, please also provide the shop order information.)
2. Identify the part(s) from the photos and tables on the preceding pages.
3. Determine the part number for the required parts.
4. Specify the quantity required.
5. Specify whether it is a safety or non-safety application.
6. Contact your Nuclear Parts Specialist at:
   http://www.westinghousenuclear.com/ProductLines/Nuclear_Services/rras_customer_service.asp