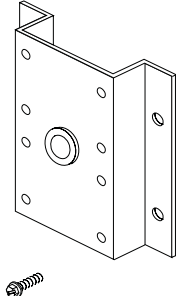
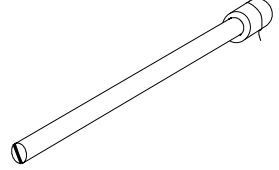
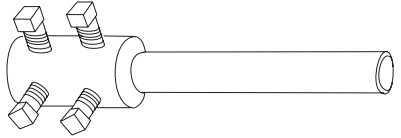
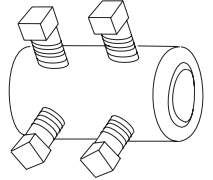
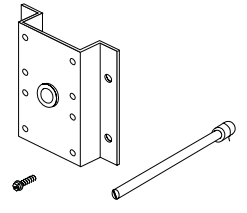


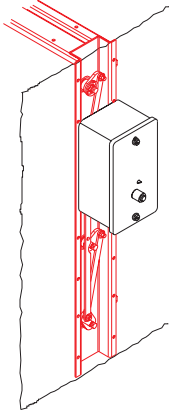
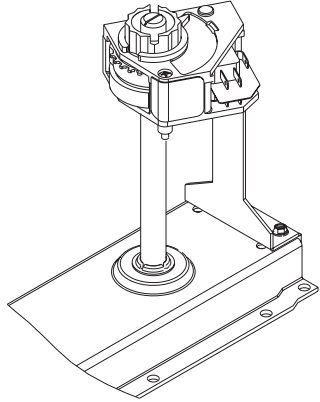
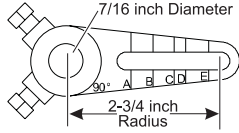
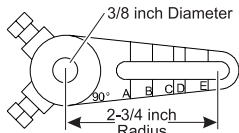
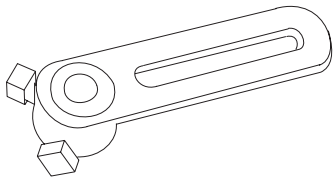
Damper Accessory Kits

Control Dampers

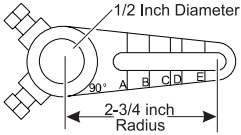
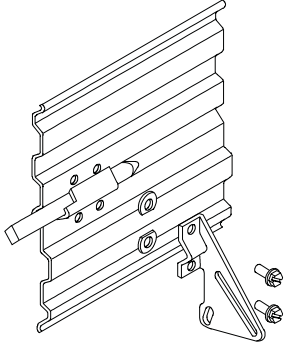
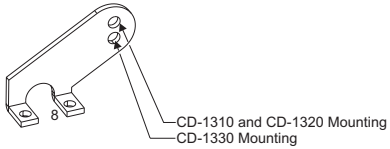
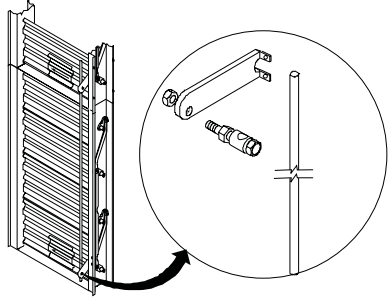
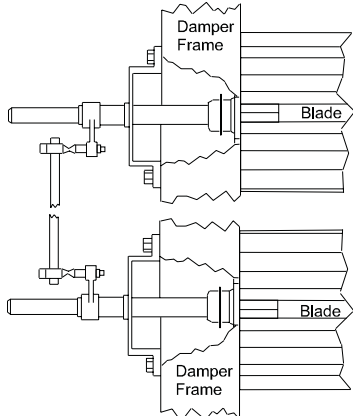
It is recommended that each accessory kit be used on the preferred driving blade whenever possible.

Damper Accessory Kits for Control Dampers	
<p>DMPR-KC001 Blade Pin Extension Support Bracket</p> <p>This kit includes a bracket with a bearing that attaches to the end channel, providing additional support to the blade pin extension. Use this kit for support when the universal mounting bracket is not used.</p>	
<p>DMPR-KC002 3-1/4 Inch Blade Pin Extension DMPR-KC003 7 Inch Blade Pin Extension DMPR-KC004 15 Inch Blade Pin Extension DMPR-KC007 3.75 inch Blade Pin Extension</p> <p>DMPR-KC002, DMPR-KC003, DMPR-KC004, and DMPR-KC007 are blade pin extensions used to accommodate external linkages and actuators. They should be used on the preferred driving blade.</p> <p>Note: DMPR-KC003 is standard with all control dampers.</p>	
<p>DMPR-KC005 Blade Pin Extension with Coupler</p> <p>DMPR-KC005 is a 7 inch long blade pin extension with a coupler to be attached to another blade pin extension. It should be used on the preferred driving blade.</p> <p>Note: Do not use with round dampers.</p>	
<p>DMPR-KC006 Blade Pin Extension Coupler</p> <p>DMPR-KC006 is a coupler used to join two blade pin extensions to accommodate separations between two panels.</p> <p>Note: Do not use with round dampers.</p>	
<p>DMPR-KC008 Blade Pin Extension Support Bracket with Blade Pin Extension</p> <p>This kit includes a blade pin extension and a bracket with a bearing that attaches to the end channel, providing additional support to the blade pin extension. Use this kit for support when the universal mounting bracket is not used.</p>	

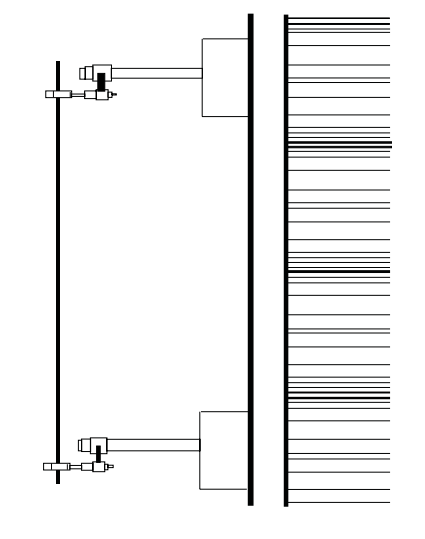
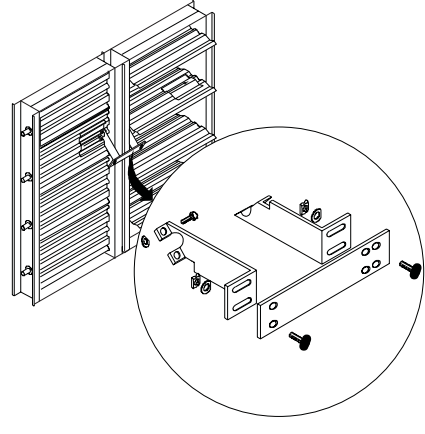
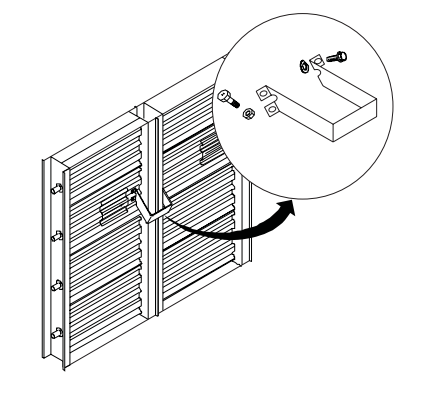
Damper Accessory Kits (Continued)

Damper Accessory Kits for Control Dampers (Continued)	
<p>DMPR-KC009 Blade Position Indicator</p> <p>This switch kit senses the open and closed position of the damper blade and provides a feedback signal to a controller.</p>	
<p>DMPR-KC010 Adjustable Blade Position Indicator</p> <p>This switch kit has two adjustable cams that can be set to sense blade positions between 0 and 90 degrees.</p>	
<p>DMPR-KC050 Crank Arm, 7/16 Inch Diameter Shaft</p> <p>DMPR-KC050 provides a connection from actuator to damper blade pin extension with a 7/16 inch diameter drive shaft, adjustable from 1 to 2-3/4 inch radius.</p>	
<p>DMPR-KC051 Crank Arm, 3/8 Inch Diameter Shaft</p> <p>DMPR-KC051 provides a connection from actuator to damper blade pin extension with a 3/8 inch diameter drive shaft, adjustable from 1 to 2-3/4 inch radius.</p>	
<p>DMPR-KC052 Crank Arm, 1/2 Inch Diameter Shaft</p> <p>DMPR-KC052 provides a connection from actuator to damper blade pin extension with a 1/2 inch diameter drive shaft, adjustable to 1-11/16 inch radius.</p>	

Damper Accessory Kits (Continued)

Damper Accessory Kits for Control Dampers (Continued)	
<p>DMPR-KC053 Crank Arm, 1/2 Inch Diameter Shaft DMPR-KC053 provides a connection from actuator to damper blade pin extension with a 1/2 inch diameter drive shaft, adjustable from 1 to 2-3/4 inch radius.</p>	
<p>DMPR-KC054 Blade Arm Use the DMPR-KC054 Blade Arm to link damper actuator rod hardware directly to damper blades.</p>	
<p>DMPR-KC055 Blade Arm For M9000 Use the DMPR-KC055 Blade Arm to link damper actuator rod hardware directly to damper blades.</p>	 <p>CD-1310 and CD-1320 Mounting CD-1330 Mounting</p> <p><i>1100_49.eps</i></p>
<p>DMPR-KC100 Internal Vertical Blade-to-Blade Linkage DMPR-KC100 provides all components necessary to drive vertically coupled panels. It uses a 48 inch long, 5/16 inch diameter linkage rod.</p>	
<p>DMPR-KC101 External Vertical Pin-to-Pin Linkage The DMPR-KC101 vertically couples two panels for an external drive. It is used with either both panels open, or one panel open and the other panel closed.</p>	

Damper Accessory Kits (Continued)

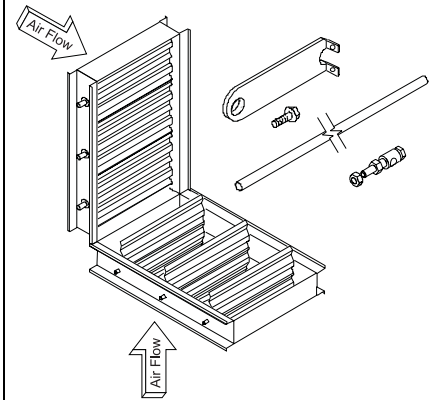
Damper Accessory Kits for Control Dampers (Continued)	
<p>DMPR-KC102 Linkage Rod, 48 Inch Long DMPR-KC102 is a 48 inch long, 5/16 inch diameter connecting rod for linkage kits.</p>	 <p>The diagram shows a vertical linkage rod with two horizontal arms at the top and bottom. Each arm is connected to a rectangular damper blade. The rod is positioned to the left of a vertical damper panel with horizontal slats.</p>
<p>DMPR-KC150 Horizontal Face/Bypass Bracket The DMPR-KC150 horizontally couples one normally open and one normally closed panel, joined side by side in a face/bypass configuration. One kit is required for every 24 inches of panel height.</p>	 <p>The diagram shows two damper panels joined side-by-side. A circular inset provides a close-up view of the DMPR-KC150 bracket, which is a horizontal metal piece with four mounting holes on each end, used to connect the panels.</p>
<p>DMPR-KC151 Blade-to-Blade Bracket The DMPR-KC151 horizontally couples two panels with the blades operating in the same direction. One kit is required for every 24 inches of panel height.</p>	 <p>The diagram shows two damper panels with blades that operate in the same direction. A circular inset provides a close-up view of the DMPR-KC151 bracket, which is a horizontal metal piece with two mounting holes on each end, used to connect the blades of the two panels.</p>

Damper Accessory Kits (Continued)

Damper Accessory Kits for Control Dampers (Continued)

DMPR-KC152 90° Blade-to-Blade Linkage

The DMPR-KC152 couples two panels joined at a 90° angle. Panels should be normally open/ normally closed, and this kit should be used on panels with three or more blades.



DMPR-KC200 Support Bar

This kit includes one 21 inch long bar to be installed at the point where four panels join.

How to Order:

The following recommendations are based on tests with 24 x 24 and 48 x 48 inch panels.

In general, for panels having:

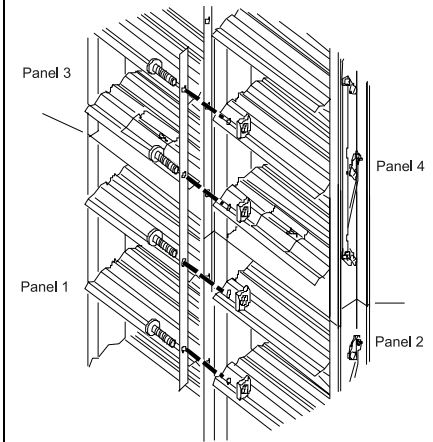
- less than four blades per panel, use one support bar
- four or more blades per panel, use two support bars

For a unit of four panels with a combined area up to 16 square feet maximum based on a closed off static pressure of:

- 1 to 4 inch WG, use one support bar
- 4 to 8 inch WG, use two support bars

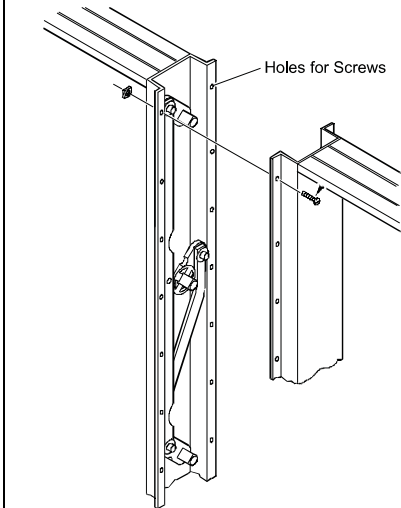
For a unit of four panels with a combined area of 16 to 64 square feet maximum based on a closed off static pressure of:

- 0 to 2 inch WG, use two support bars
- 2 to 4 inch WG, use four support bars

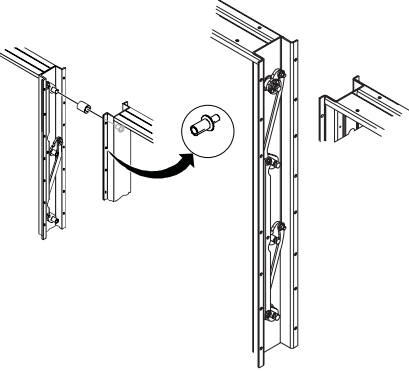
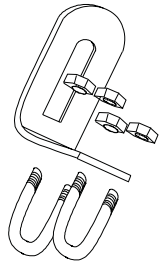
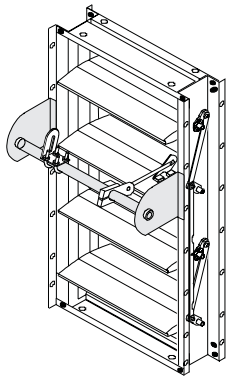
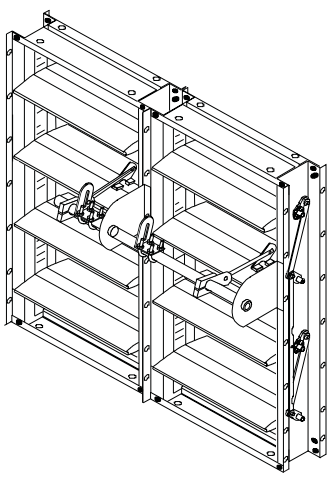


DMPR-KC201 Damper Fastener

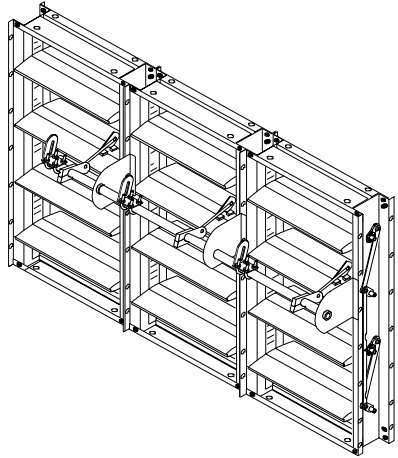
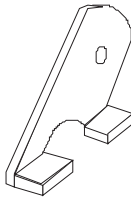
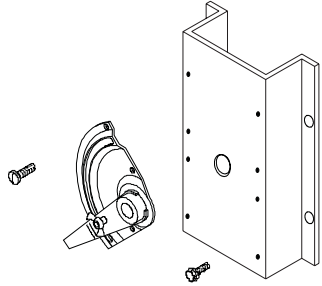
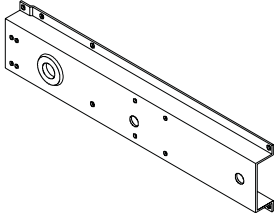
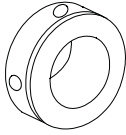
DMPR-KC201 is used to secure two or more panels together. Order one kit for each 48 inches of panel height.



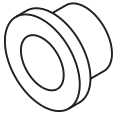
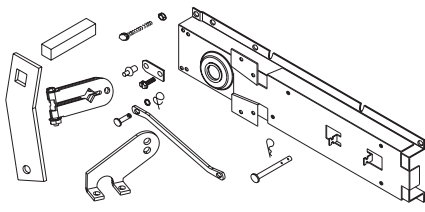
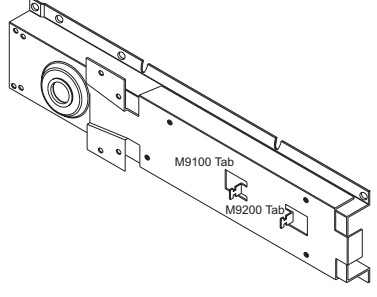
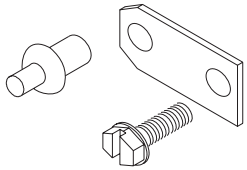
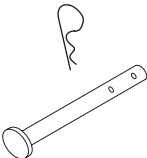
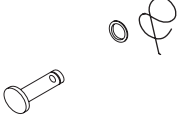
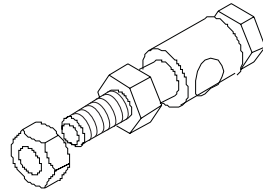
Damper Accessory Kits (Continued)

Damper Accessory Kits for Control Dampers (Continued)	
<p>DMPR-KC202 Pin-to-Pin Coupling DMPR-KC202 horizontally couples panels pin-to-pin. Order one kit per 48 inches of panel height. Install a coupler on every pin.</p>	
<p>DMPR-KC203 Drive Arm and U-Bolts DMPR-KC203 provides an additional drive arm and U-bolts for jackshaft-driven dampers.</p>	
<p>DMPR-KC204 One-Panel Jackshaft DMPR-KC204 provides an extended drive location for one-panel dampers. The jackshaft should be situated near the center of the panel for best results.</p>	
<p>DMPR-KC205 Two-Panel Jackshaft DMPR-KC205 provides an extended drive location, or couples two panels to the same actuator. The actuator should be situated near the center of the jackshaft for best results.</p>	

Damper Accessory Kits (Continued)

Damper Accessory Kits for Control Dampers (Continued)	
<p>DMPR-KC206 Three-Panel Jackshaft</p> <p>DMPR-KC206 couples three panels to the same actuator. The actuator should be situated near the center of the jackshaft for best results.</p>	
<p>DMPR-KC207 Jackshaft Blade Arm</p> <p>DMPR-KC207 is a replacement blade arm for jackshaft kits.</p>	
<p>DMPR-KC250 Manual Locking Quadrant</p> <p>DMPR-KC250 provides for manual positioning and locking.</p>	
<p>DMPR-KC251 Universal Mounting Bracket</p> <p>DMPR-KC251 is a bracket designed for use with Johnson Controls dampers for electric or pneumatic actuators.</p>	
<p>DMPR-KC252 Collar</p> <p>DMPR-KC252 attaches a blade pin extension to an old-style damper where the blade pin does not have a slot to accommodate the clip.</p>	

Damper Accessory Kits (Continued)

Damper Accessory Kits for Control Dampers (Continued)	
<p>DMPR-KC253 Bearing, Bronze Smoke Damper DMPR-KC253 is a replacement bearing external mounted electric actuator for smoke (DMPR-KS103).</p>	
<p>DMPR-KC254 M9000 Inside Frame Mounting Kit DMPR-KC254 is used to mount an M-9000 series actuator to a CD-1300 damper inside the airstream.</p>	
<p>DMPR-KC255 M9000 Inside Frame Mounting Bracket DMPR-KC255 is used to mount an M9000 series actuator to a CD-1300 damper inside the airstream.</p>	
<p>DMPR-KC256 Reinforcement Link Kit DMPR-KC256 is used to mount an M-9000 series actuator to a DMPR-KC255.</p>	
<p>DMPR-KC257 Actuator Pin Kit DMPR-KC257 is used to mount an M-9000 series actuator to a DMPR-KC255.</p>	
<p>DMPR-KC258 Linkage Pin Kit DMPR-KC258 is used to mount an M-9000 series actuator to a DMPR-KC255.</p>	
<p>DMPR-KC300 Swivel Ball Joint DMPR-KC300 provides a connection between the blade arm, crank arm, etc. and the linkage rod. Each kit includes ten swivel ball joints.</p>	

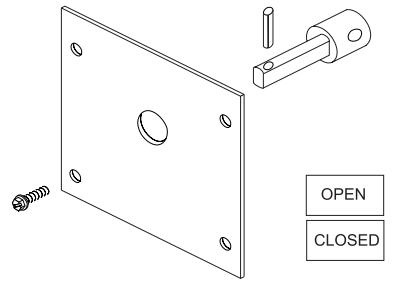
Damper Accessory Kits (Continued)

SD-1300 Smoke Dampers

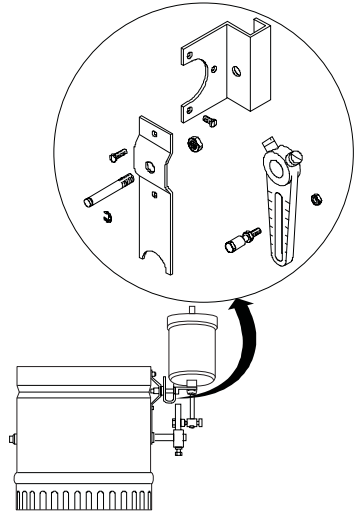
Damper Accessory Kits for SD-1300 Smoke Dampers	
<p>DMPR-KS001 Blade Position Indicator</p> <p>This 400°F rated switch kit senses the open and closed position of the smoke damper blade and provides a feedback signal to a controller .</p>	
<p>DMPR-KS101 Conversion Kit</p> <p>DMPR-KS101 provides the parts required to convert a smoke damper with an external factory-installed electric actuator to an internally-mounted actuator on the right side.</p>	
<p>DMPR-KS102 Conversion Kit</p> <p>DMPR-KS102 provides the parts required to convert a smoke damper with an external factory-installed electric actuator to an internally-mounted actuator on the left side.</p>	
<p>DMPR-KS103 Conversion Kit</p> <p>DMPR-KS103 provides the parts required to convert a smoke damper with an internal factory-installed electric actuator to an externally-mounted actuator on either side.</p>	

Damper Accessory Kits (Continued)

FD-1300 Fire Dampers

Damper Accessory Kits for FD-1300 Fire Dampers	
<p>DMPR-KF001 Blade Position Indicator DMPR-KF001 provides a visual indication of the FD-1300 fire damper blade position.</p>	

RD-2000 Round Dampers

Damper Accessory Kits for RD-2000 Round Dampers	
<p>DMPR-KR001 for D-3062 Actuator Mounting to Round Damper DMPR-KR001 adapts a D-3062 actuator for installation on a 9 to 16 inch (229 to 406 mm) RD-2000 round damper.</p>	
<p>DMPR-KR002 Extension Pins for Round Damper The DMPR-KR002 is a 1/2 in. diameter, 1-1/2 in. long extension pin.</p>	<p>—</p>
<p>DMPR-KR003 Extension Pins for Round Damper The DMPR-KR003 is a 1/2 in. diameter, 2-3/4 in. long extension pin.</p>	<p>—</p>