DMPR-KC054 Blade Arm

Use the DMPR-KC054 Blade Arm to link damper actuator hardware directly to damper blades.

Kit Includes

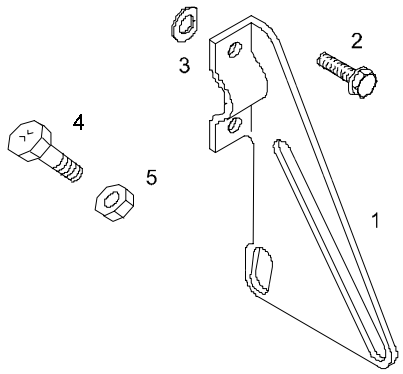

Figure 1: Kit Components

Table 1: Kit Components

Item	Description	Quantity
1	Blade Arm	1
2	#12-24 x 1/2 in. Self-tapping, Hex-head Screw	2
3	Modified Washers	2
4	#10-32 x 1-1/4 in. long Hex-head Screw	2
5	#10-32 Hex Nut	2

Tools Required

- drill
- drill bit, 3/16 inch
- screwdriver, flat-blade, 5/16 inch or #12 nut driver

Preparation

Table 2: Single-Drive Location

Damper Height, in.	Blade
24 or less	No. 1 or 3
Greater than 24 but less than 48	No. 3 or 5
Greater than 48 but less than 77	No. 5 or 7

Table 3: Multiple-Drive Location

Damper Height, in.	Blades
30 or less	Nos. 3 and 5
Greater than 30 but less than 48	Nos. 3 and 7
Greater than 48 but less than 77	Nos. 3 and 9

Locate the preferred driving blade identified by a blue label. If the identified blade cannot be used, locate the blade(s) to be driven from Tables 2 or 3. Use only odd-numbered blades for dampers with opposed blade rotation. Any blade can be used for parallel operation. Install on the linkage side.

Table 4: Blade Arm Position

Blade Type	Operation	Linkage Location	Blade Arm Direction*
16-Gauge	Normally Open	RH	Away
		LH	Towards
	Normally Closed	RH	Towards
		LH	Towards
Double-Piece	Normally Open	RH	Away
		LH	Towards
	Normally Closed	RH	Towards
		LH	Away
Airfoil	Normally Open	RH	Away
		LH	Towards
	Normally Closed	RH	Towards
		LH	Away

* Direction for leg of blade arm in relation to linkage.

Procedures

To install the blade arm kit:

1. Using a 3/16 inch (or equivalent) bit, drill two holes for the blade arm (item 1 in Figure 1). For best results:

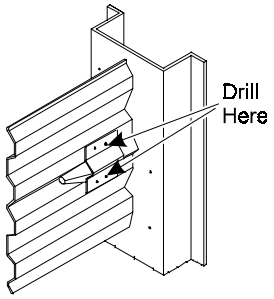

Figure 2: 16-Gauge Blades

- 16-gauge blades - drill out the first punch marks from the end channel.

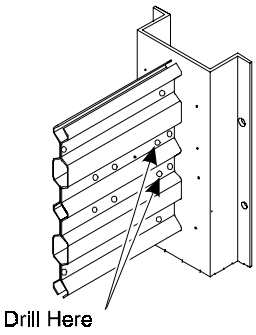

Figure 3: Double-Piece Blades

- Double-piece blades - drill out the second set of nuggets from the end channel.

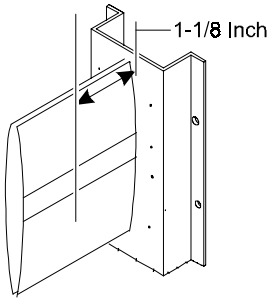

Figure 4: Airfoil Blades

- Airfoil blades - measure 1-1/8 inches from the end channel and drill on the lines etched in the blade.

2. Secure the blade arm to the preferred driving blade. Refer to Table 4 for blade arm position.

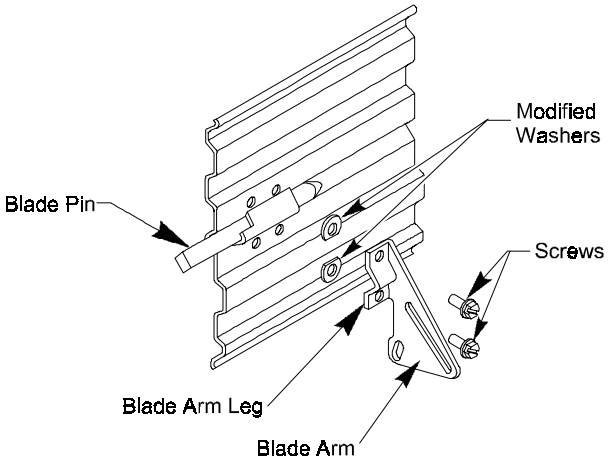

Figure 5: Attaching to 16-Gauge Blades

- 16-gauge blade: Use the two #12-24 x 1/2 inch hex-head, self-tapping screws (item 2 in Figure 1) and the modified washers (item 3 in Figure 1).
- Double-piece blade: Use the two #12-24 x 1/2 inch hex-head, self-tapping screws (item 2 in Figure 1).
- Airfoil blade: Use the two #10-32 x 1-1/4 inch hex-head screws (item 4 in Figure 1) and two #10-32 hex nuts (item 5 in Figure 1).

For application at conditions beyond these specifications, consult the local Johnson Controls representative. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

JOHNSON CONTROLS

Controls Group
507 E. Michigan Street
P.O. Box 423
Milwaukee, WI 53201

www.johnsoncontrols.com

Printed in U.S.A.