

DAMPER MOTOR REPLACEMENT KIT INSTALLATION

MODELS AHCA, AHDA, CAUA (WITH MIXING BOX), PCCA, PCDA, RBA, RBL, RGB, RGLB, RPB, RPBL, SCE, SSCBL, AND XE WITH DISCONTINUED DAMPER MOTORS

- Refer to the installation manual provided with the unit for important safety information.
- These instructions are for replacing the following discontinued damper motors: model #WR3405-21 (PN 66276), model #WR3402-9 (PN 97385), and model J/C #M9206-BGB-2S (earlier version of PN 209321).
- Damper motor replacement kit PN 209423 is used on the the Reznor® models listed in [Table 1](#). Check the wiring diagram provided with the unit to determine the inlet air option installed.

Model	Inlet Air Option
AHCA, AHDA, PCCA, PCDA	AR8, AR58, or AR61
CAUA with mixing box	GB2 or GB30
RBA, RBL, RGB, RGLB, RPB, RPBL, SCE, SSCBL, XE	AR7, AR8, AR14, or AR17

COMPONENTS

Ensure that all components listed in [Table 2](#) are available before beginning installation.

NOTE: Use of parts depends on model of heater being serviced. There may be unused parts.

Model	Item No.	Component	Description	PN (Quantity)
All	1	Damper motor	#J/C M9208-BG3-3, see Figure 1	209351 (1)
	2	Motor mounting kit	#J/C M9208-100, see Figure 1	209352 (1)
	2A	Bracket	Mounting	— (1)
	2B	Screws	Self-drilling	— (4)
	2C	Capscrew	M5 × 0.8	— (3)
	2D	Hex nut insert	Nylon	— (3)
	2E	Washer	Large	— (1)
	2F	Crankarm	—	— (1)
	2G	Ball joint	—	— (1)
All except CAUA	3	Wire nut	Twist-on	16354 (5)
	4	Motor support	With weld nuts	100315 (1)
	5	Slotted head screw	1/4-20 × 1-1/2	100763 (2)
	6		#10 × 3/4	20859 (2)
	7	Bolt	1/4-20 × 3/4	16246 (4)
8	Extension	Extension	123642 (1)	
CAUA	9	Screw	1/4-20 × 3/4	114687 (4)

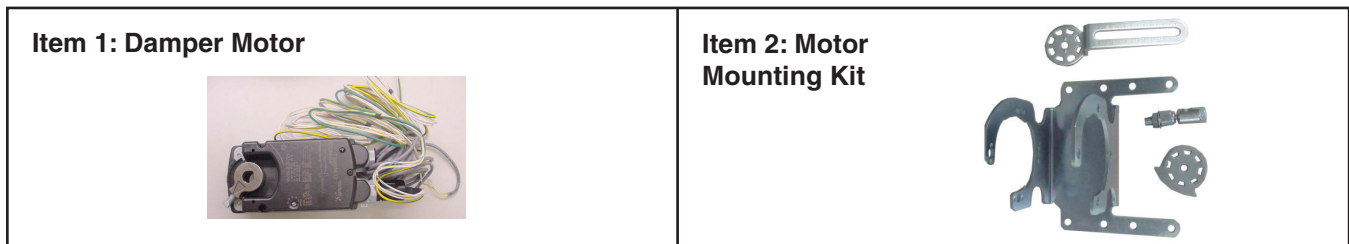


Figure 1. Replacement Kit Components

INSTALLATION

⚠ DANGER ⚠

Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read these instructions thoroughly before installing or servicing this equipment. The qualified agency performing this work assumes responsibility for this installation.

Install the damper motor replacement kit as follows. Item numbers in parentheses refer to [Table 2](#).

1. Turn OFF gas and electric power.
2. Remove existing damper motor:
 - a. Remove damper motor and linkage access panel.
 - b. At damper motor, disconnect linkage from damper arm and close dampers.
 - c. Mark and disconnect wiring from motor.
 - d. Remove motor with existing mounting bracket.
 - (1) For model CAUA, do not remove existing motor support or any other damper linkage.
 - (2) For all models **except** CAUA, remove existing motor support and keep all linkage.
3. For all models except CAUA, install replacement motor support (4) in same location using screws (5 and 6) as shown in [Figure 2](#).

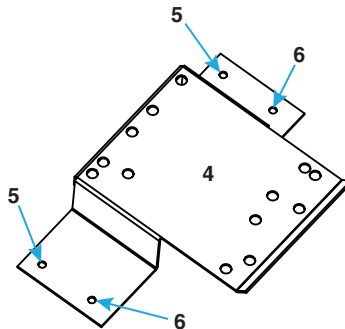


Figure 2. Replacement Motor Support

4. Install mounting bracket (2A):
 - a. For model CAUA:
 - (1) Position mounting bracket (2A) in orientation shown in [Figure 3](#), DETAIL A and align holes on right side with existing holes.
 - (2) Mark and drill two 13/64-inch holes on left side.
 - (3) Secure mounting bracket (2A) using four screws (9).
 - b. For all models **except** CAUA:
 - (1) Position mounting bracket (2A) in orientation shown in [Figure 3](#), DETAIL B on motor support installed in step 3 with left side of bracket extended slightly over outer side of motor support.
 - (2) Align mounting bracket (2A) holes with motor support weld nuts and secure bracket using four bolts (7).

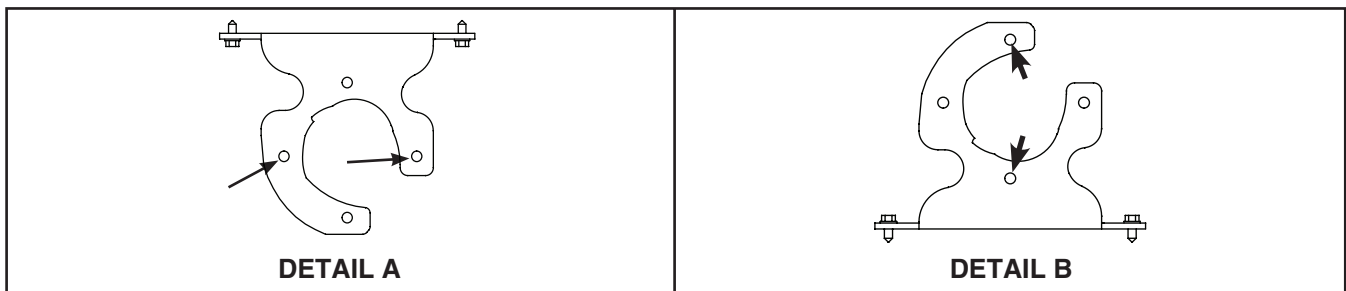


Figure 3. Replacement Mounting Bracket

5. Install damper motor (1):
 - a. With side of damper motor (1) marked B for model CAUA (see [Figure 4](#), DETAIL A) or A for all models **except** CAUA (see [Figure 4](#), DETAIL B) facing out, slide motor into mounting bracket installed in step 4.
 - b. Align damper motor (1) holes with mounting bracket holes indicated in [Figure 3](#) (DETAIL A for model CAUA or DETAIL B for all models **except** CAUA) and install two capscrews (2C) through bracket and motor.
 - c. Install two hex nut inserts (2D) on capscrews (2C) and torque nuts to 15–20 inch-pounds (1.7–2.3 newton-meters).

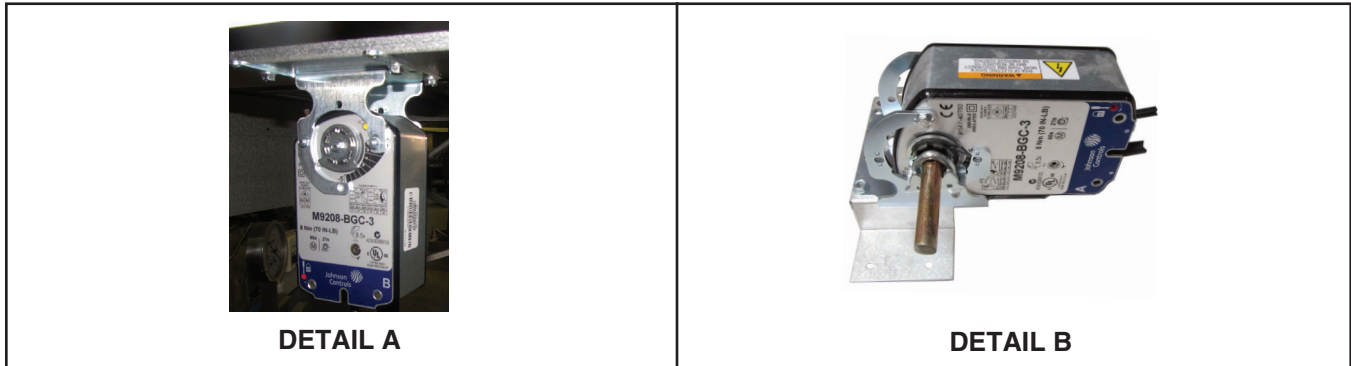


Figure 4. Replacement Damper Motor

6. For model CAUA, install crankarm (2F) on damper motor installed in step 5 as follows:
 - a. On side of motor marked A, secure crankarm (2F) to motor using capscrew (2C).
 - b. On side of motor marked B, install washer (2E) and hex nut insert (2D) on capscrew (2C) and torque nut to 15–20 inch-pounds (1.7–2.3 newton-meters).
7. Connect damper motor wiring using wire nuts (3):

NOTE: The replacement damper motor wires are two colors: yellow or black and white or red.

- a. Connect yellow or black wire to wire marked D (was connected to D terminal on original motor).
 - b. Connect white or red wire to wire marked T (was connected to T terminal on original motor).
 - c. For all models **except** CAUA, if end switch **is not** used, proceed to step d. If end switch **is** used, proceed as follows:
 - (1) Connect white/blue or black/blue wire to wire marked NC (was connected to NC terminal on original motor).
 - (2) Connect white/gray or black/gray wire to wire marked NO (was connected to NO terminal on original motor).
 - (3) Connect white/yellow or black/red wire to wire marked COM (was connected to COM terminal on original motor).
 - d. Install wire nut (3) on other three motor wires: white/blue or black/blue, white/gray or black/gray, and white/yellow or black/red.
8. Reconnect damper linkage:
 - a. For model CAUA, reconnect linkage to shaft on damper motor as shown in [Figure 5](#).



Figure 5. Model CAUA Damper Motor and Linkage Inside Mixing Box

INSTALLATION—CONTINUED

- b. For all models **except** CAUA, insert shaft through damper motor on side of motor marked B, secure shaft with coupler, and reconnect linkage to shaft (see **Figure 6**).

