1. Mount ball joint at inner end of motor crank arm slot.

2. With motor in closed position, use the adjustment guide to align and mount the motor crank arm. Point arrow (on bottom of card) directly at damper shaft. Align crank arm at correct angle for stroke and end of motor.

3. Run motor to desired position for closed damper (fully open or fully closed). Mark on end of motor, direction of rotation required to open damper.

4. Mount ball joint on damper crank arm (numbers indicate degrees of damper opening).

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**Honeywell DAMPER ADJUSTMENT GUIDE**

**EXAMPLE:**

**POWER END** 90° MOTOR  
SET ON POWER END OF 160° STROKE MOTOR  
AUXILIARY END 90° MOTOR

**POWER END** 160° MOTOR  
AUXILIARY END 160° MOTOR

POINT DIRECTLY AT DAMPER SHAFT
5. Mark on side of duct, direction damper must rotate to open (CW or CCW).

6. With damper closed, use adjustment guide (see below) to align the damper crank arm so that the motor will push or pull the damper arm in the correct direction (Step 3). Align centerline of damper crank arm with angle on adjustment guide for desired amount of damper opening.

7. With motor in desired position for closed damper, install the push rod (ball joints only thumb tight).

8. Check installation by running motor through full stroke, tighten ball joints.

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**Use this side of card to adjust damper crank arm**

- Align centerline of crank arm for desired amount of damper opening (example: set for 60° opening).
- Damper opens CW—set crank arm at this end of arc.
- Damper opens CCW—set crank arm at this end of arc.
- Point directly at motor shaft.

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**DAMPER ROTATION (160° MOTOR)**

- 90°
- 75°
- 60°
- 50°
- 40°

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**SHAFTS ROTATE SAME DIRECTION—CRANK ARMS POINT SAME WAY.**

**SHAFTS ROTATE OPPOSITE DIRECTION—CRANK ARMS POINT OPPOSITE WAY.**