

Applications

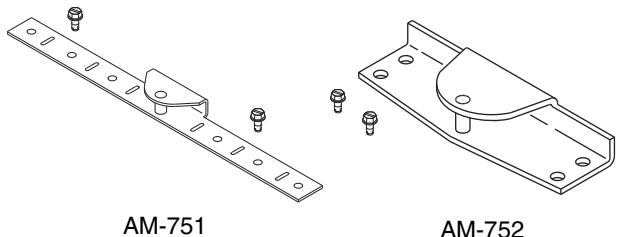
The AM-751 and AM-752 anti-rotation brackets are used to hold the actuator in position during operation. The AM-752 is for mounting in narrow spaces.

The AM-753 and AM-754 shaft mounting clamps are used to clamp the actuator to the damper shaft. The AM-753 is used for a 5/8 inch (16 mm) square shaft, or 3/4 inch to 1 inch (19 mm to 25 mm) round shaft. Two clamps are in each package. The AM-754 is used for a 3/8 inch to 1/2 inch (10 to 13 mm) round and square shaft. Two AM-754 clamps are included with the actuator.

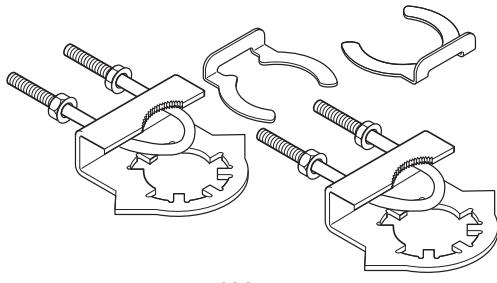
The AM-755 manual override crank is used to manually position the MX40-634X actuator for setup and installation.

Applicable Literature

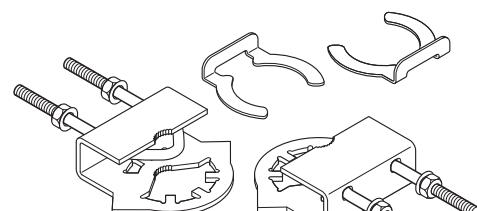
- MX4X-7XXX and MX40-6XXX Series Schneider Electric DuraDrive Actuator Selection Guide, F-26646
- MA40-717X Schneider Electric DuraDrive Series Spring Return Direct Coupled Actuator General Instructions, F-26742
- MF40-6343 Schneider Electric DuraDrive Series Non-Spring Return Direct Coupled Actuator General Instructions, F-26744
- MS40-634X Schneider Electric DuraDrive Series Non-Spring Return Direct Coupled Actuator General Instructions, F-26745
- MS40-717X Schneider Electric DuraDrive Series Spring Return Direct Coupled Actuator General Instructions, F-26748
- MF40-7173 Schneider Electric DuraDrive Series Spring Return Direct Coupled Actuator General Instructions, F-26749



AM-751 AM-752



AM-753



AM-754



AM-755

INSTALLATION

Inspection

Inspect the package for damage. If damaged, notify the appropriate carrier immediately. If undamaged, open the package and inspect the device for obvious damage. Return damaged products.

Requirements

- Tools (not provided):
Open-end wrench (1/2 inch)
Flat head screwdriver
Other hand tools as appropriate
- Training: Installer must be a qualified, experienced technician.
- Other accessories as appropriate

Mounting

AM-751 and AM-752 Anti-rotation Brackets

AM-753 and AM-754 Universal Clamps

When mounting the Actuator for Clockwise or Counterclockwise Dampers the zero (0) position on the position indicator is the normal or spring return position. When the actuator is mounted with the "R" side facing the installer and the control signal increases the actuator will rotate in the counterclockwise direction. When the actuator is mounted with the "L" side facing the installer and the control signal increases the actuator will rotate in the clockwise direction.

Long Damper Shafts - 3 1/2 Inches and Longer

1. Move the damper to its normal position (usually closed).
 - If the damper shaft rotates clockwise to the closed position, mount the actuator with the side marked "R" facing the installer.
 - If the damper shaft rotates counterclockwise to the closed position, mount the actuator with the side marked "L" facing the installer. See Figure-1.

For Spring Return and Non-Spring Return Actuators

1. Move the damper to the closed position. Verify the controller action is set to match the damper application.
 - For normally closed damper: when damper is closed, actuator position indicator should be at 0°. When damper is open, actuator position indicator should be at 90°.
 - For normally opened damper: when damper is open, actuator position indicator should be at 0°. When damper is closed, actuator position indicator should be at 90°.
2. Position the clamp assemblies on the actuator and snap the clip into position. Repeat for other side of actuator.

NOTE

The actuator comes equipped with two universal mounting clamps for shafts up to 1/2" (13 mm) in diameter. For damper shafts larger than 1/2" (13 mm) in diameter, the AM-753 universal mounting clamp kit is required (order separately). The AM-753 comes with two clamps to accommodate round shaft sizes ranging from 3/4" to 1" (19 to 25 mm) or 5/8" (16 mm) square shafts. The AM-754 kit contains two clamps with clips for shafts under 1/2" (13 mm) diameter.

► CAUTION

Both clamps must be used or damage to the actuator may occur.

3. Slide the actuator over the shaft and into its desired final mounting position.
4. Hand tighten the nuts on both of the actuator's universal mounting clamps.
5. Align the actuator at 90° (perpendicular) to the damper shaft. See Figure-3.
6. Slide the anti-rotation bracket pin into the mounting slot on the actuator and drill mounting holes. The AM-752 anti-rotation bracket is used for narrow spaces under 9 inches.
7. Attach one side of the anti-rotation bracket to the mounting surface with one of the screws provided. Leave the screw loose so that the bracket can be rotated. See Figure-2 for clockwise or Figure-1 for counterclockwise spring return.
8. Pivot the anti-rotation bracket away from the actuator.
9. Loosen the universal mounting clamps, making sure not to move the damper shaft. Rotate the actuator approximately 5° in the direction which would open the damper. See Figure-1 and Figure-2.
10. Tighten all of the universal mounting clamp nuts with a 1/2" socket wrench. Apply 4 to 6 ft -lbs (5 to 8 N-m) of torque.
11. Manually rotate the actuator toward the full-closed position to apply pressure to the damper seals.
12. Pivot the anti-rotation bracket into place and secure the other side of the bracket onto the mounting surface using the other screw provided with the actuator.
13. Verify that the damper is in its full-closed position and actuator at 90° (perpendicular) to the damper shaft.

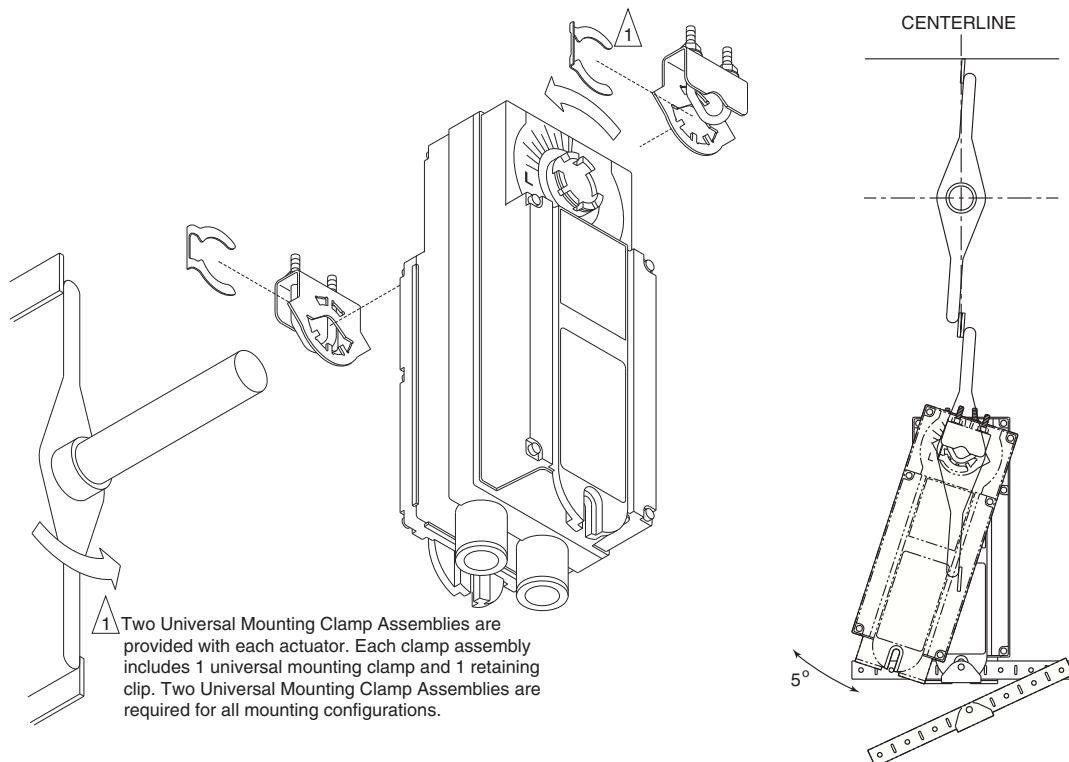


Figure-1 Long Damper Shaft Mounting with Counterclockwise Spring Return for Normally Closed Damper.

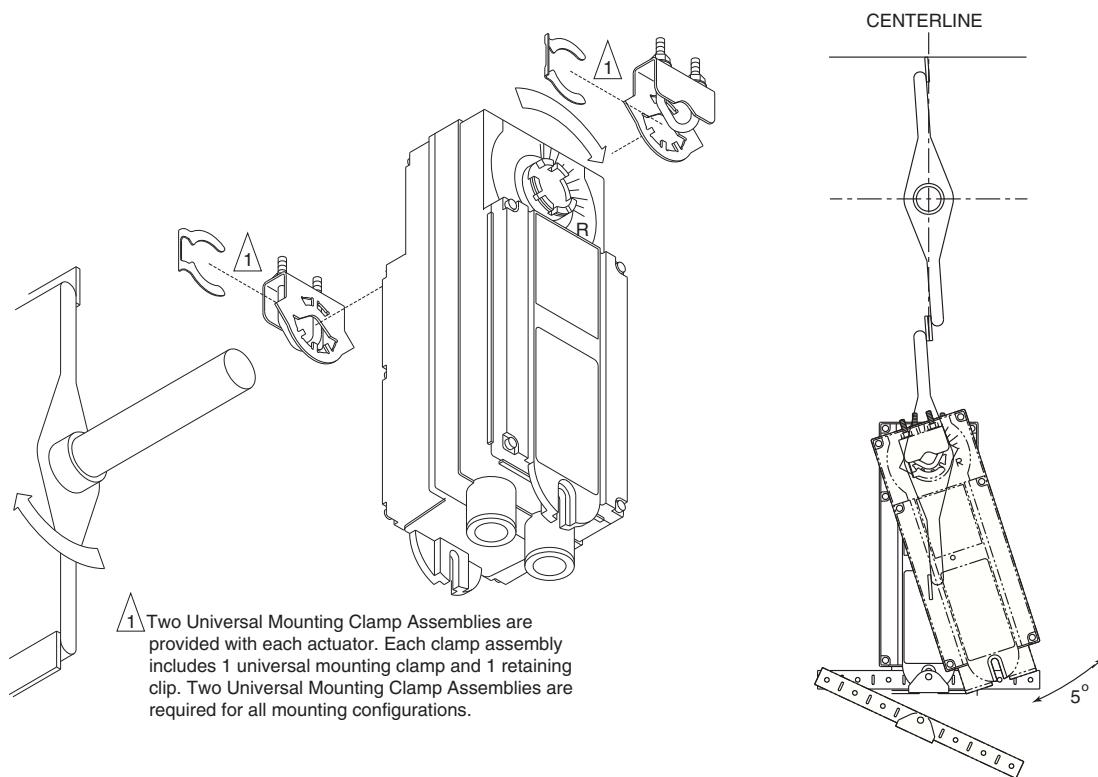


Figure-2 Long Damper Shaft Mounting with Clockwise Spring Return for Normally Closed Damper.

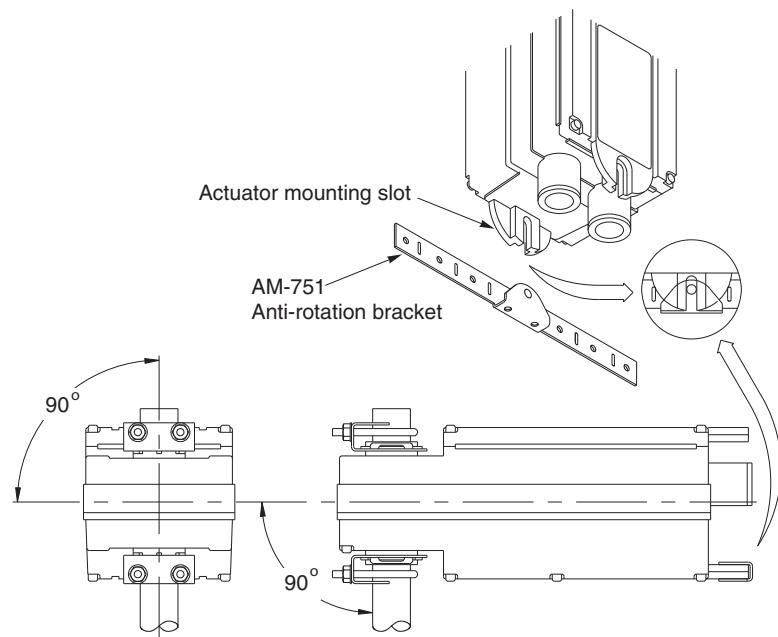


Figure-3 Mounting Anti-rotation Bracket to Actuator.

AM-755 Manual Override Crank

▼ CAUTION

- Only use Manual Override crank when the actuator drive motor is not powered.
- Engaging the manual override when the actuator is powered will cause damage to the gears.
- Using power tools to adjust the override will cause damage to the gears.

NOTE

Avoid manually repositioning the actuator beyond its adjustable travel limit setting.

The MX40-634X actuators can be manually positioned to ease installation or for emergency positioning. One manual override crank is included with the actuator.

1. Insert AM-755 into the hexagon hole located on the label side of the actuator. An illustration, located on the label, shows the location.
2. To engage manual override press and hold inward on the wrench while turning it in the direction shown on the label. It will take approximately 114 revolutions to rotate the full 93° of rotation.
3. Manual override is automatically disengaged by applying power to the drive, open or closed. The actuator automatically disengages the override function and goes to the controller's desired position.

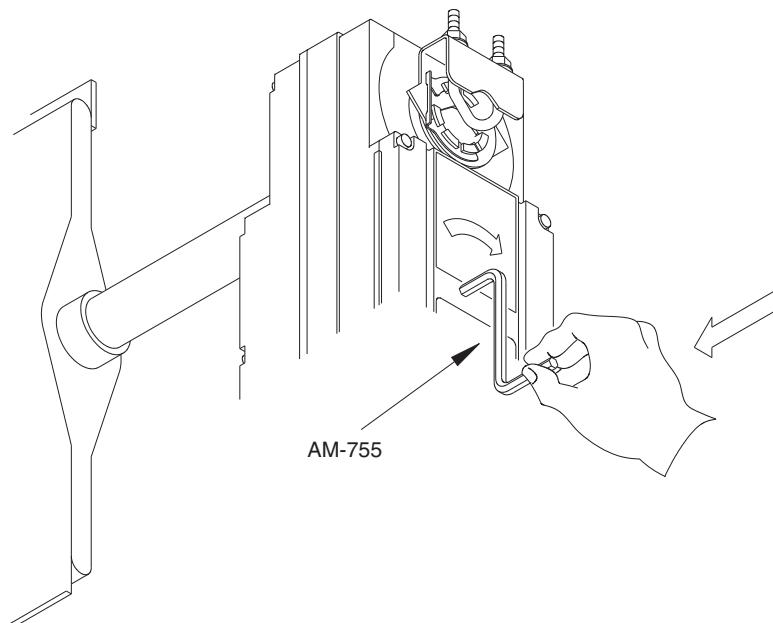


Figure-4 Manual Override Positioning with AM-755.

MAINTENANCE

AM-75X accessories require no maintenance.

Regular maintenance of the total system is recommended to assure sustained, optimum performance.

Field Repair

None. Replace any damaged or failed parts with functional replacements.

On October 1st, 2009, TAC became the Buildings business of its parent company Schneider Electric. This document reflects the visual identity of Schneider Electric, however there remains references to TAC as a corporate brand in the body copy. As each document is updated, the body copy will be changed to reflect appropriate corporate brand changes.

Copyright 2010, Schneider Electric
All brand names, trademarks and registered
trademarks are the property of their respective
owners. Information contained within this
document is subject to change without notice.

F-26898-4

Schneider Electric
1354 Clifford Avenue
P.O. Box 2940
Loves Park, IL 61132-2940
www.schneider-electric.com/buildings

Schneider
 **Electric**