

Items Included in Kit (Internal and External)

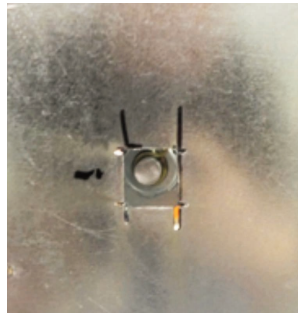
1. M-53115 - Belimo Auxiliary Switch Unit Kit
 - a. AF, SF and NF Adapter
 - b. LF Adapter
 - c. BF and BLF Adapter
 - d. Conduit Connector
 - e. 2-6mm x 65mm Long Bolts
 - f. 2-6mm Locking nuts
2. M-52289 - Actuator Bracket
3. M-53205 - Anti-Rotation Pin BracketM-53205
4. M-10432 - #10-16 x 3/4" HWH TEK Screw (qty 8)
5. M-10931 - CD Standoff Bracket

Tools Needed

1. 10mm Wrench or Socket
2. 1/2" Wrench or Socket
3. 3/4" Drill Bit, Uni-Bit, 3/4" Round Knockout Punch or Cut Off Wheel
4. 5/16" Nut Driver

Steps to Retro-Fit the Belimo Actuator to an FSNF Mount Actuator

1. Shut power off to the actuator before beginning.
2. If the damper is in a sleeve, a 3/4" hole is needed in the damper sleeve on the side farthest away from the actuator. A drill bit, uni-bit or a round knockout punch can be used. A cutoff wheel can be used as well to cut a 1" x 1" square.



3. Loosen the two nuts on the actuator clamp. 10mm wrench or socket required.

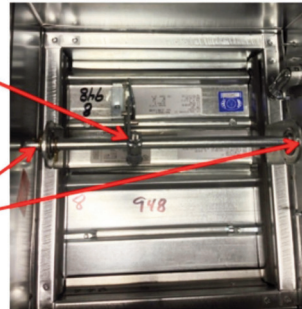


4. Loosen the nut on the knee lock assembly. 1/2" wrench or socket required.



Knee Lock

Hose Clamps



5. Remove hose clamps on the ends of the jackshaft. Care should be taken to ensure the clamps do not spring off the jackshaft.

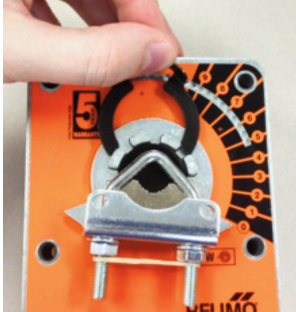


6. Slide the jackshaft through the hole created in step 5 just far enough to remove the actuator from the jackshaft. A metal file may be needed in order to slide the jackshaft through the jackshaft bearings due to the marred surface created from the factory tightening of the knee lock and the actuator clamp.
7. With the actuator loose, remove the jackshaft clamp from the actuator and install it on the opposite side.



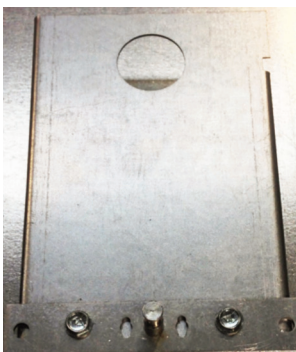
Steps to Retro-Fit the Belimo Actuator to an FSNF Mount Actuator - Continued

Please ensure that the bolts are either pointing to the side or top of the actuator. This will assist in securing the actuator to the jackshaft later.



Reinstall on the opposite side of the actuator with the clamps pointing up.

8. Assemble the rotation pin bracket supplied in the kit to formed bracket. The pin should be in the center of the bracket as close as possible and aligned with the bottom of the non-hole side. Use two of the supplied TEK screws to secure the two brackets together.



9. Take the assembly and mount it to the actuator bracket that was installed by the factory. The assembly should fit over the top of the factory installed bracket. Align the assembly so that the bottoms are no more than a 1/2" apart. Use two of the supplied screws to secure the assembly to the bracket.



10. Please follow the Belimo instruction guide for the auxiliary switch pack for the installation of the switch to the actuator. The new actuator assembly should look similar to the pictures below.



Actuator to switch adapter.

Steps to Retro-Fit the Belimo Actuator to an FSNF Mount Actuator - Continued



Switch installed.

11. Reinstall the Actuator/Switch pack assembly onto the jackshaft. Slide the jackshaft back into the jackshaft bearing on the damper. The switch should be towards the center of the damper.
12. Slide the actuator back against the bracket assembly that was created in step 9. The anti-rotation pin should be engaged in the slot at the bottom of the actuator.



13. With the actuator powered off, tighten the nuts on the actuator jackshaft clamps using a 10mm wrench or socket.
14. Ensure that the damper blades are fully closed and the knee lock is engaged completely. Tighten the knee lock's carriage bolt and nut using a 1/2" wrench or socket.
15. Route the switch and actuator wiring as needed.
16. Seal up the hole drilled in step 5, if needed, with a 2" x 2" square piece of metal. If desired, use an approved sealant to prevent air leaks.



17. Power the system on and check for operations.

Steps to Retro-Fit the Belimo Actuator to an FSNF Mount Actuator

1. Shut power off to the actuator before beginning.
2. Remove the actuator by loosening the 2-10mm nuts holding the actuator to the jackshaft. Set the actuator aside for now.
3. Remove and disregard the anti-rotation bracket installed from the factory. The pin type is shown in the picture below but applies to all types of brackets.



Loosen using a 10mm wrench or socket.



Factory installed anti-rotation bracket. Remove and disregard.

4. With the actuator loose, remove the jackshaft clamp from the actuator and install it on the opposite side.



Steps to Retro-Fit the Belimo Actuator to an FSNF Mount Actuator - Continued

Please ensure that the bolts are either pointing to the side or to the top of the actuator. This will assist in securing the actuator to the jackshaft later.



5. Reinstall on the opposite side of the actuator with the clamps pointing up.

Please follow the Belimo instruction guide for the auxiliary switch pack for the installation of the switch to the actuator. The new actuator assembly should look similar to the pictures below.



Actuator to switch adapter.



Switch installed.

6. Assemble the new actuator anti-rotation bracket by installing the anti-rotation pin bracket to the hat channel bracket as depicted below. Align the pin bracket to the bottom of the channel bracket.



7. Using the actuator as an assembly aid, install the bracket assembly created in Step 6 using 4 of the supplied screws to secure it to the sleeve. Bracket may overhang the sleeve in certain applications.



8. Reinstall and secure the actuator to the jackshaft.



9. Route the switch and actuator wiring as needed.
10. Power the system on and check for operations.