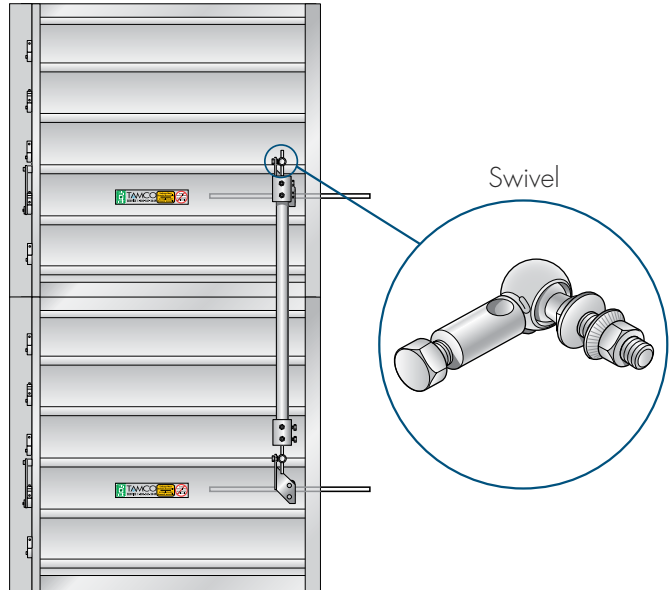


INSTALLATION GUIDELINES VERTICAL JACK SHAFTS

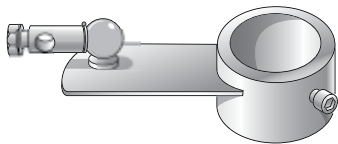
Note: Installation design may require vertical jack shaft to be installed along with a standard jack shaft. Please refer to TAMCO Jack Shaft Installation Guidelines for installation instructions specific to standard jack shafts.

VERTICAL JACK SHAFT CONNECTED TO FACE BLADE BRACKETS

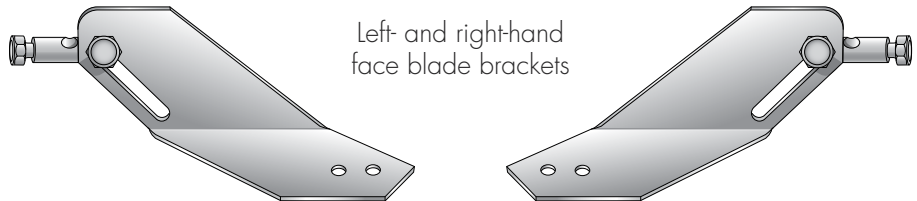
- Ensure damper sections are properly installed. (See TAMCO Aluminum Damper Installation Guidelines.)
- Loosen the face blade bracket swivel fastener to allow the removal of the face blade bracket from the 1/4" (6.4 mm) end rods.
- With both damper sections closed, undo the hex nuts on the drive blade U-bolts. Position the face blade bracket over the U-bolt (with the swivel at the top) and secure the bracket with the hex nuts. (For Series 9000 dampers, retain the spacing plate located in the blade channel.)
- Insert the vertical jack shaft's 5/16" (8 mm) diameter rod cap ends into the face blade bracket swivels. Ensuring that the damper sections are fully closed, tighten the set screws.
- If any adjustment is required, reposition the rod cap end in the face blade bracket swivel until both sections close fully.
- Retighten the swivel and verify damper closure.
- Repeat the adjustment procedure if necessary.
- If assistance is required, call
TAMCO CUSTOMER SERVICE 1-800-561-3449.



Blade crank arm



Left- and right-hand
face blade brackets



VERTICAL JACK SHAFT CONNECTED TO HORIZONTAL JACK SHAFT

- Ensure that the damper sections and the horizontal jack shafts are properly installed. (See TAMCO Aluminum Damper Installation Guidelines and Installation Guidelines for Horizontal Jack Shafts.)
- With the damper sections closed, position both pre-installed short jack shaft crank arms at a 45° up angle and align them with each other. (Refer to the accompanying drawing.)
- Insert the vertical jack shaft's 5/16" (8 mm) diameter rod cap ends into the short jack shaft crank arm swivels. Ensuring that the damper sections are fully closed, tighten the set screws.
- If any adjustment is required, reposition the rod cap end in the sort jack shaft crank arm swivel until both sections close fully.
- Retighten the swivel and verify damper closure.
- Repeat the adjustment procedure if necessary.
- If assistance is required, call
TAMCO CUSTOMER SERVICE 1-800-561-3449.

