AirBrake® QDSK Bushing Mount Installation Instructions

Prior to installation please confirm that the following parts are





- QD-SF Airbrake® bushing mount assembly
- QD-SK Bushing adaptor ring
- Shackle with screw pin
- Wire rope clips
- Wire rope thimbles
- 1/2"-13 Eye bolt, washer, and nut
- 3/8"- 16 x 2" Socket head mounting bolts
- 5/16"- 18 x 1" Socket head mounting bolts
- Stainless steel restraining cable assembly

CAUTION:

Prior to installation confirm the operation direction of the fan, and ensure this coincides with the direction of free rotation of the AirBrake®. Also ensure that the maximum overrunning speed does not exceed 600 RPM.

Following conditions are required **<u>BEFORE</u>** installation of the QD-SK bushing adaptor ring may proceed!

- 1) Three 5/16-18 UNC threaded holes in the bushing flange <u>MUST</u> be available for the installation.
- 2) Flange threads must be clean of grease, dirt and rust. Chase threads with bottom tap if necessary.
- 3) Any protrusion of shaft or key <u>MUST</u> fit within the confines of the central hole of the adaptor.
- 4) Flange mounting surfaces must be clean of grease, dirt and rust.

STEP 1: Refer to *Figure 1*.

Confirm there is no more than 1.25 inches (31.8 mm) of shaft extension beyond the bushing and that there is at least 4 inches (101.6 mm) of clearance between the bottom of the bushing and the nearest obstacle. On shafts greater than 2-9/16" (65 mm) diameter there can be no shaft extension beyond the face of the bushing.

STEP 2: Refer to *Figure 2.*

Install the QD-SK to QD-SF AirBrake® adaptor ring onto the QD-SK bushing by aligning the counter-bored installation holes of the AirBrake® adaptor ring with the threaded holes of the QD-SK bushing. Fasten ring to bushing with provided 5/16-18 UNC x 1" long socket head cap screws. Install QD-SF Air-Brake® onto the adaptor ring with the three supplied 3/8-16 UNC x 2" long socket head cap screws.



Figure 1. Maximum shaft extension.



Figure 2. QD-SK TO QD-SF AIRBRAKE INSTALLATION

STEP 3: Refer to *Figure 3* on back of page.

Insert the thimble portion of the cable assembly onto each shackle. Apply Loctite® 262 to the threads of the screw pin of each shackle. Install each shackle onto one of the holes in the arm of the AirBrake® assembly. Tighten the screw pin nut and install the safety cotter pin.



STEP 5: After installation of the restraining cables check, by hand, for free rotation of the fan in the normal direction. T hen, again by hand, attempt to rotate the fan in the reversed direction and ensure the AirBrake® is working properly. In the normal rotation direction, of the fan, it is likely that both cables will be very slightly slack. In the reversed direction one cable should be taut. Ensure that both cables do *NOT* contact *ANY* edge or surface (moving or stationary) which may cause fraying and failure of the cables.

STEP 6: Install all required guards and confirm there is sufficient clearance for all AirBrake® associated hardware.

STEP 7: After all necessary guards have been installed, run the fan at full speed, ensure that the cables are not overly tight and are positioned properly with all equipment operating correctly.

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