Browning®

TorqTaper® Plus Motor Mount Installation Instructions

Power Transmission Solutions
Regal Beloit America, Inc.
7120 New Buffington Road
Florence, KY 41042
Application Engineering: 800 626 2093
www.RegalPTS.com

FORM
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⚠ WARNING

- Read and follow all instructions carefully.
- Disconnect and lock-out power before installation and maintenance. Working on or near energized equipment can result in severe injury or death.
- Do not operate equipment without guards in place. Exposed equipment can result in severe injury or death.

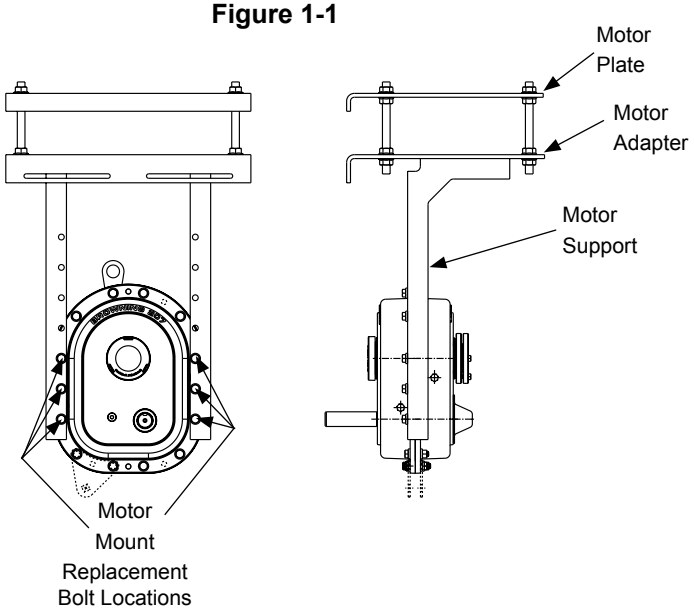
⚠ CAUTION

- Periodic inspections should be performed. Failure to perform proper maintenance can result in premature product failure and personal injury.

1. Motor Mount Installation Instructions

1.1 Top (6 O'clock) or Bottom (12 O'clock) Motor Mount Installation Instructions (Size 107 through 315)

Figure 1-1



1.1.1 Remove the three housing flange bolts and washers on each side as shown in Figure 1-1.

1.1.2 Install the motor supports, using the longer bolts furnished with the motor mount kit. One support is used on each side of the unit on the input shaft side of flange. Additional holes are provided for various center distances.

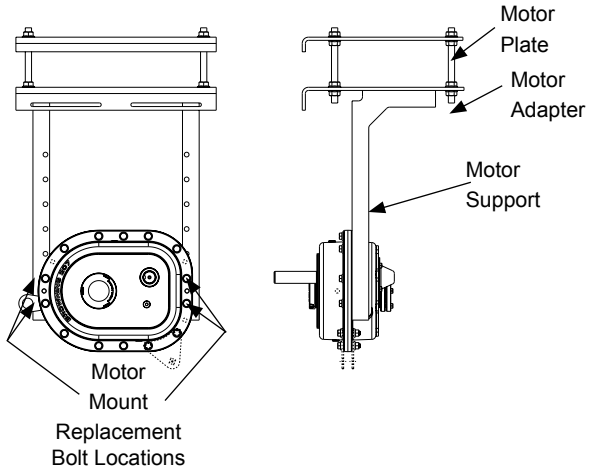
1.1.3 Install all flange bolts and washers against flange at this time but do not tighten.

1.1.4 Install the motor adapter; using the capscrews provided, tightening the capscrews to the recommended torque. (See bolt torque specifications section 2.)

1.1.5 Tighten the reducer flange bolts to the recommended torque. (See bolt torque specifications section 2.)

1.2 Side Motor Mount Installation Instruction (3 O'clock or 9 O'clock) (Size 107 through 315)

Figure 1-2



1.2.1 Remove the housing flange bolts as shown in Figure 1-2.

1.2.2 Install the motor supports, using the longer bolts furnished with the motor base adapter. One support is used on each side of the unit on the side of flange opposite the input shaft.

1.2.3 Install all flange bolts at this time but do not tighten.

1.2.4 Install the motor adapter; using the capscrews provided, tighten the capscrews to the recommended torque. (See bolt torque specifications section 2.)

1.2.5 Tighten the reducer flange bolts to the recommended torque. (See bolt torque specifications section 2.)

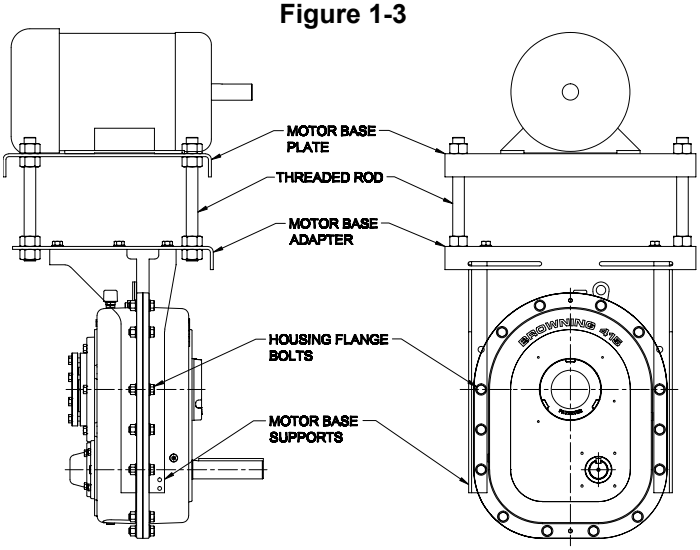
1.3 Top (6 O'clock) or Bottom (12 O'clock) Motor Mount Installation Instructions

(Size 407 through 800)

1.3.1 Remove the housing flange bolts along the sides only of the reducer.

1.3.2 Install the motor base supports, using the longer bolts furnished with the motor base adapter. Two supports are used on each side unit of the 407 - 608 reducers. (See Figure 1-3.)

Figure 1-3



1.3.3 Install all flange bolts at this time but do not tighten.

1.3.4 Install the motor base adapter; using the capscrews provided, tightening the capscrews to the recommended torque. (See Table No. 7.)

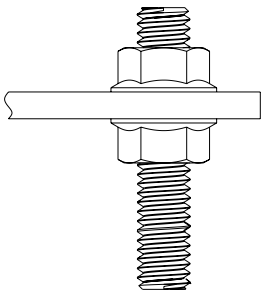
1.3.5 After completing step 1.3.4, tighten the reducer flange bolts to the recommended torque. (See Table No. 1.)

1.4 Motor Plate Installation Instructions

1.4.1 Install a nut on each of the four threaded rods. The flange side of the nut should thread on last. Position nuts approximately 2" from the end of each rod. (Refer to Figure 1-4 for correct installation of flange nuts.)

1.4.2 Insert threaded rods in the four holes of the motor adapter plate that match the holes in the motor plate and install bottom nut flange. Thread nuts up to bottom of plate but do not tighten. The flange side of the nut should thread on first.

Figure 1-4
Detail of flanged nut installation on threaded rod.



1.4.3 Thread a nut onto the top of each of the four threaded rods. The flange side of the nut should thread on last. A good rule of thumb is to install the nuts about 6 inches down on the threaded rod. (Make sure the flat side of the nut is facing up.) It is helpful to install all four nuts at the same depth.

1.4.4 Place the motor plate over the four threaded rods so that it rests on the nuts previously installed. Thread a nut onto the top of each of the four threaded rods but do not thread down the rod at this time. The flange side of the nut should thread on first.

1.4.5 Tighten motor adapter plate (bottom plate) nuts to the required torque.

1.4.6 Mount the motor using the holes in the motor plate that match the holes in the base of the motor. Be sure to follow the motor manufacturer's installation instructions.

1.4.7 Mount and align the sheaves on the motor shaft and the reducer input shaft. Install the sheave on the reducer first positioning it as close to the reducer as possible to minimize overhung load.
Note: Make sure to leave room between the sheave and the reducer for the back panel of the belt guard.

1.4.8 Lock the reducer sheave in place by following the manufacturer's instructions. Leave the motor sheave loose at this time.

1.4.9 Place the drive belt (or belts) on the motor sheave.

1.4.10 If the drive belts do not easily slip over the reducer sheave, lower the motor using the adjusting nuts below the motor plate. Lower this plate until the belts will fit over the driven sheave on the reducer. Lower the base evenly by turning all four nuts the same amount. Do not force the belts over the sheave.

1.4.11 Using the nuts on the bottom of the motor plate, raise the motor until the belts become very lightly tensioned. Do not tension at this time.

1.4.12 Adjust the belt alignment as necessary by moving the motor sheave and the motor plate to the desired positions. The motor plate has slotted holes for this purpose.

1.4.13 Lock the motor sheave in place by following the manufacturer's instructions.

1.4.14 Adjust the belt (or belts) to the proper tension using the nuts on the bottom of the motor plate to raise the motor. Adjust the nuts on all four corners evenly to maintain alignment.
Note: Refer to the belt drive manufacturer's installation procedures to ensure proper installation and tensioning of the belt drive.

1.4.15 When proper belt alignment and tension are achieved, tighten all of the nuts on the threaded rods. All four nuts on each threaded rod should be tightened to the proper bolt torque specification.

1.4.16 Check all bolts to be sure they are tight.

1.4.17 Check to ensure the belt drive is properly tensioned and aligned.

2. Bolt Torque Specifications

REDUCER SIZE	HOUSING FLANGE		MOTOR ADAPTOR	
	BOLT SIZE	FT. LBS	BOLT SIZE	FT. LBS
107	5/16-18	16	5/16-18	16
115	3/8-16	29	3/8-16	29
203	7/16-14	46	7/16-14	46
207	1/2-13	70	1/2-13	70
215	1/2-13	70	1/2-13	70
307	5/8-11	140	1/2-13	70
315	5/8-11	140	1/2-13	70
407	5/8-11	140	3/4-10	250
415	3/4-10	250	3/4-10	250
507	3/4-10	250	3/4-10	250
608	3/4-10	250	3/4-10	250
800	1-8	600	3/4-10	250

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