

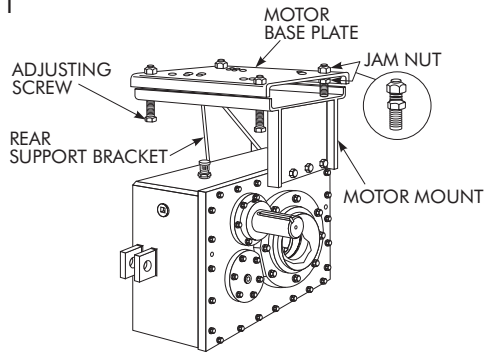
Introduction

The Falk Equi-Poised Motor Mount is an all-steel weldment that bolts directly to the steel housing of Falk Shaft Mounted (Type JR), Flange Mounted (Type JF) and Screw Conveyor (Type JSC) Drives, as shown in Figure 1.

This modern design provides a simple means of tensioning V-belts or chains with adjusting screws. Motor base plates are available from Falk predrilled for NEMA & IEC standard foot mounted motors within the rated capacity of the drive.

Assembly Instructions

Figure 1



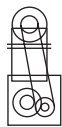
From Figure 2, determine which assembly is required. Drives are shown assembled in the 3 o'clock position, high speed shaft relative to low speed shaft. They can also be mounted in the 6, 9 and 12 o'clock positions after the motor mounts are assembled.

WARNING: Remove all external loads from system before servicing drive or accessories.

Consult applicable local and national safety codes for proper guarding of rotating members.

Figure 2

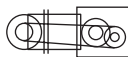
STANDARD ASSEMBLIES



A3
(3 o'clock)

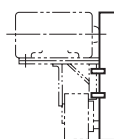


C3
(3 o'clock)



D3
(3 o'clock)

Letter = Motor Mount Position, Number = Drive H.S.S. Clock



OSHA type guard when specified. Dimensions to suit components.

1. ASSEMBLE MOTOR MOUNT BRACKET TO DRIVE.

Remove housing cover fasteners and attach motor mount bracket to housing using longer fasteners provided. Refer to Table 1 for fastener size and tightening torque.

2. ASSEMBLE REAR SUPPORT BRACKET TO DRIVE.

Refer to Table 1 for fastener size and tightening torque.

a. **SIZE 5407 ALL TYPES (FIGURE 3)** — Remove two hex nuts and lock washers from seal cage studs. Remove the two seal cage studs and replace them with the longer studs provided. Mounting position of drive and motor mount will determine which fasteners need to be removed. Using lock washers provided with motor mount and hex nuts previously removed, attach rear support bracket to drive, aligning holes in bracket with seal cage studs.

b. **SIZES 5415JR & 5507JR (FIGURE 3)** — Remove appropriate hex nuts and lock washers from seal cage studs. Mounting position of drive and motor mount will determine which fasteners need to be removed. Using hex nuts and lock washers previously removed, attach rear support bracket to drive, aligning holes in bracket with seal cage studs.

c. **SIZES 5415, 5507, & 5608JF (FIGURE 4)** — Attach rear support to flange using mounting fasteners furnished by user (furnished by Rexnord for Size 5608JF).

d. **SIZE 5608JR (FIGURE 3)** — Attach rear support bracket to seal cage pads using fasteners provided.

Figure 3 Sizes:
5407 thru 5507JR
5407JF & JSC
5608JR

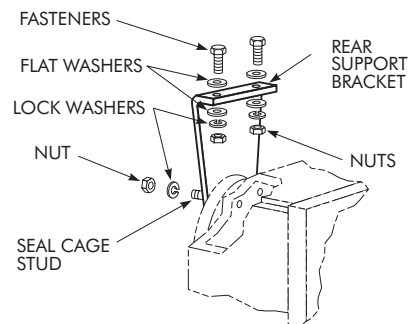
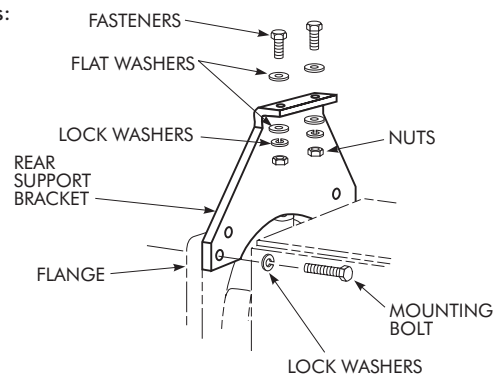


Figure 4 Sizes:
5415 thru
5608JF



Refer to Owners Manual 378-206, Appendix L for installation of Rexnord V-belt guards.

3. **ASSEMBLE SUPPORT BRACKET TO MOTOR MOUNT BRACKET** — Use the fasteners provided. Refer to Table 1 for fastener size and tightening torque.
4. **ASSEMBLE BASE PLATE TO MOTOR MOUNT BRACKET (FIGURE 1)** — Assemble adjusting screws to motor mount bracket and base plate with jam nuts above and below the base plate. Motor Base Plates for 254 Frame and larger motors used with low base mounting have turned down edges. These base plates may be inverted for improved access to the lower jam nuts provided the upturned edges of the base plate do not interfere with the motor conduit box or electrical wiring.
5. **MOUNT MOTOR** — Position motor on base plate so that all mounting holes are in alignment. Install and tighten motor fasteners.
6. **SPROCKET, PULLEY OR SHEAVE CONNECTION** — Mount power takeoffs as close to drive and motor housing as possible to avoid undue bearing load and shaft deflection. Align the high speed shaft of drive square and parallel with motor shaft by placing a straightedge across the face of the sprockets or sheaves as illustrated. Check horizontal shaft alignment by placing one leg of a square against the face of the sheave or sprocket with the spirit level on the horizontal leg of the square.

Adjustment of the belt or chain is accomplished by turning adjusting screws evenly. DO NOT over tighten belts or chains. Over tightening belts or chains reduces belt/chain and bearing life. When the required tension is reached, tighten adjusting screw jam nuts to torques listed in Table 1. Adjust chain tension to manufacturers' specifications. Adjust belts as follows:

The ideal belt tension is the lowest tension at which the belt will not slip under peak load conditions. Check belt tension frequently during the first 24 to 48 hours of run-in operation. Keep belts free from foreign material which may cause slippage. Inspect the V-belt drive periodically; retighten belts if they are slipping.

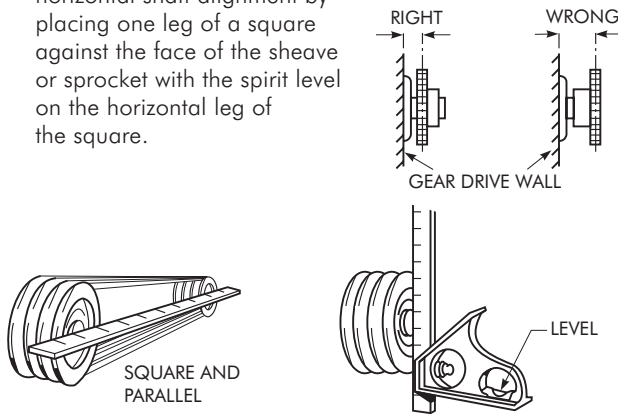


TABLE 1 — Fastener Size and Tightening Torque ★

DRIVE SIZE	Motor Mount to Housing		Support to Seal Cage		Support to Motor Mount		Support to Flange		Adjusting Screws	
	Size	Torque lb-ft (Nm)	Size	Torque lb-ft (Nm)	Size	Torque lb-ft (Nm)	Size	Torque lb-ft (Nm)	Size	Torque lb-ft (Nm)
5407	.500-13UNC x 2.25	69 (94)	.750-10UNC	330 (447)	.500-13UNC x 1.75	69 (94)	.750-10UNC	330 (447)	1.250-7UNC †	362 (491)
5415	.500-13UNC x 2.50	69 (94)	.750-10UNC	330 (447)	.500-13UNC x 1.75	69 (94)	1.250-7UNC ‡	1050 (1424)	1.250-7UNC †	362 (491)
5507	.500-13UNC x 2.50	69 (94)	.875-9UNC	533 (723)	.500-13UNC x 1.75 ●	69 (94)	1.250-7UNC ‡	1050 (1424)	1.250-7UNC †	362 (491)
5608	.750-10UNC x 3.25	245 (332)	.750-10UNC	330 (447)	.750-10UNC x 1.75	245 (332)	.750-10UNC x 2.00	245 (332)	1.250-7UNC	362 (491)

★ All fasteners are Grade 5.

† Size .625-11UNC x 6.00 fasteners are furnished with motor mount for select motor frame sizes. Tighten these fasteners to 60 lb-ft (81 Nm).

‡ Fasteners furnished by customer.

● Size .750-10UNC x 2.25 fasteners are furnished with motor mount for select motor frame sizes. Tighten these fasteners to 245 lb-ft (332 Nm).