



Deltaflex Coupling Installation Sheet

Spacer and Floating Shaft Type

Introduction

The Lovejoy Deltaflex coupling requires no special tools or alignment equipment for installation. Use the components shipped to align the coupling according to the instructions. **See “Safety notice” below.**

Before starting installation, check the squareness of the spacer tube and end plate assembly-*See Figure 1 (a) on other side.* Damage may occur in shipping and handling. If necessary, square up the plate with the tube by tapping the plate lightly with a mallet or small hammer. If balancing is required, the coupling has been marked with registration marks to match up the components. If more than one spacer coupling assembly has been ordered, don't mix balanced component/matched sets. NOTE: As required, spacer flanges are assembled to the spacer/floating shaft section and balanced as a subassembly. Usually the hubs have not been balanced as part of this subassembly - no match marks will be found on the hubs. (*See Figure 2 on other side*).

Instructions

Step 1

Assemble the two spacer flanges to the hubs - *See Figure 1 (b).* Three cap screws and lock washers are provided for each end. Torque the cap screws according to *Chart A* for the hub cap screw torque. Place the hub/spacer flange assembly on the equipment shafts as shown in *Figure 1 (c).* **LEAVE THE HUB SET SCREWS LOOSE AT THIS TIME.**

Step 2

Using the spacer dropout to determine the position of the hubs: bring the hubs together or slide them apart until the spacer dropout fits snugly between the flange assemblies - *See Figure 1 (c).* If the assembly has been balanced, you will find register marks on the spacer flange faces and the spacer-dropout plates (*See Figure 2*): Be sure to line up the registered holes, 1A-1A & 1B-1B, etc.

Step 3

At this point, you will be able to determine if you have correct alignment of the shafts. If the spacer mounting bolts do not fit easily into the holes in the flanges, alignment will have to be corrected. You may flex the spacer flanges slightly in order to get them to line up. If there is too much misalignment, the spacer mounting bolts will not fit easily through the holes in the dropout tube and the spacer flange assembly. Realign until the bolts go in comfortably. After realigning the equipment, *Repeat Step 2* to be sure that the spacer-dropout fits between the spacer flanges **without compressing or stretching the spacer flanges.**

IMPORTANT: To avoid axial compression or expansion of the flange assemblies, *Follow Step 2 very carefully.* The flexlinks in the flange assembly may be flexed

slightly due to angular misalignment only. Tighten the spacer flange mounting bolts according to *Chart B.* **TIGHTEN THE HUB SET SCREWS LAST,** per *Chart C.*

Step 4

When the equipment is turned on there should not be any noise emitting from the coupling if the alignment is correct. The coupling should run quietly.

Safety Notice: It is very important that all rotation components be guarded to protect personnel from inadvertent contact with the coupling, belt drive, chain drives etc. The guard should also protect against injury from fragments of components in the event of part failure. Refer to safety standards such as OSHA, state codes or MPTA/ANSI B15 for details.

Deltaflex Installation Instructions

Coupling Size	CHART A Hub Screws		CHART B Flange Screws		CHART C Set Screws	
	Size	Torque (lb-in)	Size	Torque (lb-in)	Size	Torque (lb-in)
40	1/4	108-120	1/4	108-120	1/4	78-87
50	5/16	228-252	5/16	228-252	5/16	150-165
60	3/8	396-444	5/16	228-252	3/8	260-290
80	1/2	960-1080	7/16	636-720	1/2	540-600
100	5/8	1920-2160	1/2	960-1080	5/8	1100-1200

Note: Use only grade 5 hex head cap screws
Use an anaerobic adhesive such as Loctite®

Figure 1

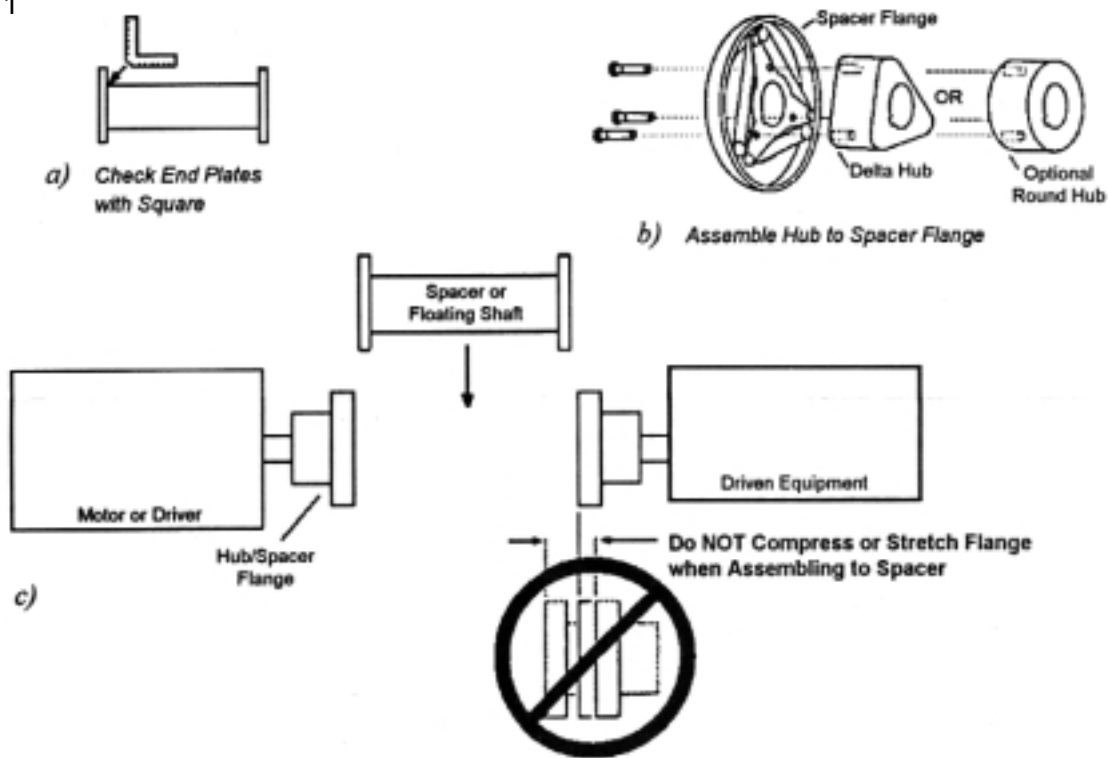


Figure 2

