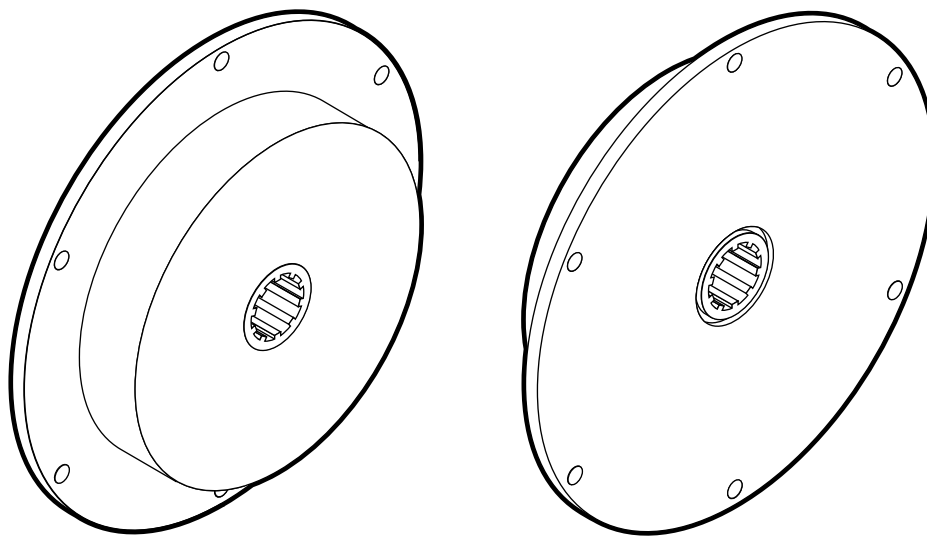


BERKELEY®**IMPORTANT**

For best possible performance and continuous, satisfactory operation, read these instructions before installing coupling. Should service be required, this manual can be a valuable guide. It should be kept near the installation for ready reference.

California Proposition 65 Warning

▲ WARNING This product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Installation

Elastomeric Coupling

WHY USE A TORSIONAL COUPLING?

Soft elastomeric couplings provide a means of dampening and isolating vibrations in the system. This reduces the possibility of damage occurring to pump and engine components.

SELECTION OF THE ELASTOMERIC COUPLING:

Before mounting the coupling, make sure that the proper coupling has been selected. The coupling selection chart may be found in *Berkeley Tech Data* (Type "B" Centrifugal Pumps, Close Coupled Pump Ends For Engines With SAE Flywheel Housings").

TO WHICH SAE ENGINE DRIVE UNITS DOES THE ELASTOMERIC COUPLING APPLY?

Elastomeric couplings are suitable for use on Berkeley units requiring a 6-1/2" to 14" clutch size (1-3/8 or 1-1/2" shaft). For units manufactured prior to May 1995, it may be necessary to reduce the overall shaft diameter .001 to .003 of an inch so that the shaft may accommodate the coupling. This can be accomplished by using a lathe, file or emery cloth.

MOUNTING THE ELASTOMERIC COUPLING:

STEP 1: PREFITTING THE COUPLING: The machined surfaces on the elastomeric coupling have very close tolerances. Burnishing the coupling and shaft splined surfaces will improve ease of mounting of the pump/coupling/engine assembly.

- a. Clean the shaft and coupling surfaces thoroughly using a lubricating cleaning fluid.
- b. Carefully aligning the coupling and shaft splines, start the coupling on the shaft.
- c. Slide the coupling onto the shaft.

- d. If necessary, use a 1/8" flat file or emery cloth to remove burrs that might prevent the coupling from sliding freely onto the shaft.
- e. Make sure that the coupling can move axially on the shaft, without interference.
- f. Remove the coupling from the shaft.

STEP 2: PREPARATION FOR ASSEMBLY OF PUMP ON ENGINE:

- a. Clean the face and register fit of the flywheel housing and flywheel as necessary to remove rust or debris which would prevent proper mounting and alignment.
- b. Lubricate the pump shaft splines sparingly with light grease.
- c. Slide the coupling onto the pump shaft until it has bottomed on the spline.

The small diameter of the coupling should face the pump bracket for better heat dissipation. If necessary, the coupling can be installed with the small diameter facing the engine. If possible, install the coupling with the small diameter facing the pump bracket.

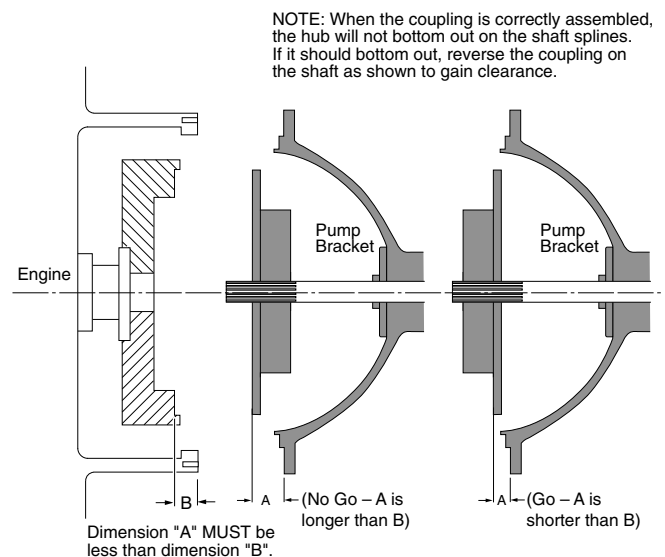


FIGURE 1

Installation

Elastomeric Coupling

- d. Measure the distance from the engine side of the elastomeric coupling plate to the mounting face of the pump bracket. Refer to Figure 1, Dimension "A".
- e. Measure the depth from the face of the flywheel housing on the engine to the face on the flywheel against which the coupling will be bolted. Refer to Figure 1, Dimension "B".
- f. The pump measurement must be less than the engine measurement (Dimension "A" must be less than Dimension "B"). Any axial interference will result in thrust force on the engine crank shaft bearings which can cause severe engine damage.
- g. See Figure 2 for preferred and alternative installations. Be sure to check for clearance at the indicated points.

STEP 3: INSTALLATION OF COUPLING ON FLYWHEEL:

- a. The elastomeric couplings are aligned concentrically with the flywheel by register fit on the flywheel. Inspect all mating surfaces and remove all dirt or preservative coatings before assembly. Fit the coupling into the flywheel. Align the bolt holes and engage the coupling with register fit on the flywheel. Tap the coupling with a soft heavy

hammer, if necessary, to make sure that the coupling is seated flat against the flywheel. Secure the coupling tightly to the flywheel with capscrews.

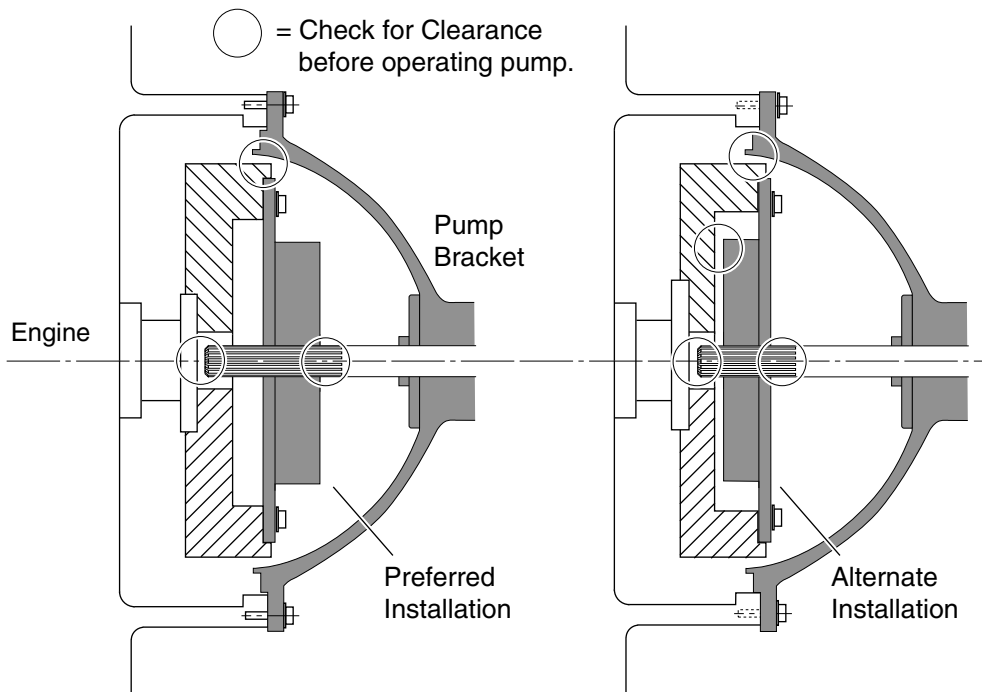
- b. Remove any grease or dirt from the elastomer components of the coupling.
- c. For flywheel housings other than the overcenter type, please consult the factory.

INSTALLATION OF PUMP ON ENGINE:

NOTE: If any interference or incompatibility of parts is detected during installation, **DO NOT** proceed with assembly. Please consult the factory for assistance. **DO NOT FORCE ANYTHING.**

STEP 1: Lift the pump with suitable lifting apparatus and align the pump shaft with the coupling. The end of the pump shaft has a pilot diameter which facilitates engagement of the pump shaft into the coupling.

STEP 2: Reach into the pump suction opening and rotate the impeller slightly to engage the shaft and coupling splines. Verify that there is no gap between the bracket and flywheel housing faces. Rotate the pump as necessary to align the bracket holes with the engine. Install the capscrews and bolt the pump end securely to the engine.



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FIGURE 2

Berkeley Warranty

Limited Warranty

BERKELEY warrants to the original consumer purchaser ("Purchaser" or "You") of the products listed below, that they will be free from defects in material and workmanship for the Warranty Period shown below.

Product	Warranty Period
Water Systems:	
Water Systems Products — jet pumps, small centrifugal pumps, submersible pumps and related accessories	<i>whichever occurs first:</i> 12 months from date of original installation, or 18 months from date of manufacture
Pro-Source™ Composite Tanks	5 years from date of original installation
Pro-Source™ Steel Pressure Tanks	5 years from date of original installation
Pro-Source™ Epoxy-Lined Tanks	3 years from date of original installation
Sump/Sewage/Effluent Products	12 months from date of original installation, or 18 months from date of manufacture
Agricultural/Commercial:	
Centrifugals – close-coupled motor drive, frame mount, SAE mount, engine drive, VMS, SSCX, SSHM, solids handling, submersible solids handling	12 months from date of original installation, or 24 months from date of manufacture
Submersible Turbines, 6" diameter and larger	12 months from date of original installation, or 24 months from date of manufacture

Our limited warranty will not apply to any product that, in our sole judgement, has been subject to negligence, misapplication, improper installation, or improper maintenance. Without limiting the foregoing, operating a three phase motor with single phase power through a phase converter will void the warranty. Note also that three phase motors must be protected by three-leg, ambient compensated, extra-quick trip overload relays of the recommended size or the warranty is void.

Your only remedy, and BERKELEY's only duty, is that BERKELEY repair or replace defective products (at BERKELEY's choice). You must pay all labor and shipping charges associated with this warranty and must request warranty service through the installing dealer as soon as a problem is discovered. No request for service will be accepted if received after the Warranty Period has expired. This warranty is not transferable.

BERKELEY SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER. THE FOREGOING LIMITED WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING LIMITED WARRANTIES SHALL NOT EXTEND BEYOND THE DURATION PROVIDED HEREIN.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on the duration of an implied warranty, so the above limitations or exclusions may not apply to You. This warranty gives You specific legal rights and You may also have other rights which vary from state to state.

This Limited Warranty is effective June 1, 2011 and replaces all undated warranties and warranties dated before June 1, 2011.

In the U.S.: BERKELEY, 293 Wright St., Delavan, WI 53115
In Canada: 269 Trillium Dr., Kitchener, Ontario N2G 4W5