

Fig 12-1

Installing ball bearing into housing

If you have purchased a ball bearing that is already assembled into the housing, skip ahead to step 5 on page U-13.

Step 1: Inspect the I.D. of the housing (especially a metal housing) for any burrs, scratches, or an obvious out-of-round condition.

Check the mating parts prior to full installation by performing the following procedure:

- Install the bearing into the installation slots in the spherical housing.
- Hold the bearing between your fingers like a key and turn the bearing in the housing like a key in a lock (Fig 12-1). A bearing that fits properly will turn around in the housing 360°. This may require two hands, but if a tool is required to turn the bearing in the housing it is *too tight*.

Repair burrs and scratches as required. An out-of-round condition makes the housing unusable.

Step 2: If there is an anti-rotation pin on the O.D. of the bearing, this pin must be positioned so that it will fall into the loading slot in the housing (Fig 12-2a).

Use a round bar that is as close to the bore dimension as possible to roll the bearing into the housing (Fig 12-2b).

NOTE: In order to accommodate shaft sizes where ball bearings are not typically available, EDT makes stainless bushings that slip between the inner race and the shaft; EDT calls these SSADAPT... (Fig 12-3). These are a slip fit; line up the drilled holes with the setscrews and slip bushing into location, then adjust setscrews through the bearing and bushing until they lock into the shaft. Torque pressure limits are listed in Step 5 on page U-13.

In many cases the bushings can be reused through several bearing changes.



Fig 12-2a

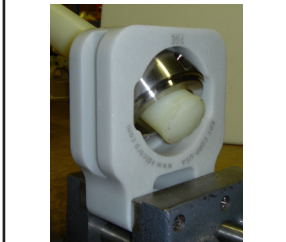


Fig 12-2b

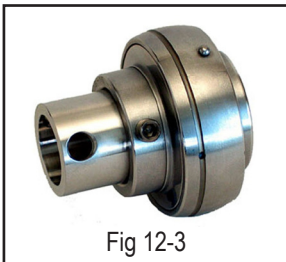
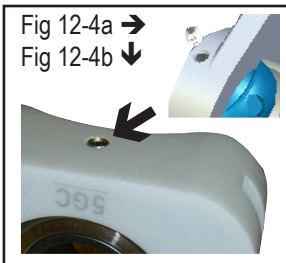


Fig 12-3

Step 3:

	EDT Housings	Other brand housings
Re-lubricatable ball bearing	Install 1/4-28 grease fitting into threaded hole.	Check that grease hole of insert will align with grease ring of housing. Housing must have grease fitting on the outside for a grease gun.
Solid lubricated ball bearing	Install 1/4-28 setscrew into threaded hole until flush with surface (Fig 12-4a and 12-4b).	Remove grease fitting and replace with setscrew or pipe plug. This bearing should NOT be greased.



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Installing ball bearing unit onto equipment

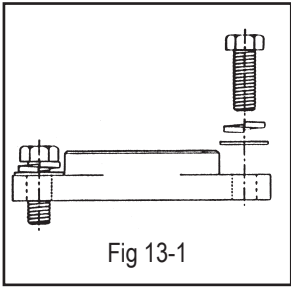


Fig 13-1

Step 4: When mounting housing onto machine, bolt pressure should not exceed 25–30 foot-pounds of torque.

All housings (polymer or stainless) should be installed with a flat washer under the hex head of the bolt. Use of a lock washer is at the discretion of the installer, and should be mounted **above** the flat washer (see Fig 13-1).

Step 5: When mounting insert onto shaft, torque pressure for inner race setscrews should not exceed:

204–206 ring sizes	26 inch-pounds torque
207–209 ring sizes	60 inch-pounds torque
210–212 ring sizes	110 inch-pounds torque
213–215 ring sizes	~170 inch-pounds torque

Step 6: After the bearings are mounted, and before drives and belts (or other devices) are installed, make sure the bearing turns freely. If not, bearing must be adjusted inside housing to better align with shaft. Attach drive mechanisms and belts *only after freewheeling is confirmed*.

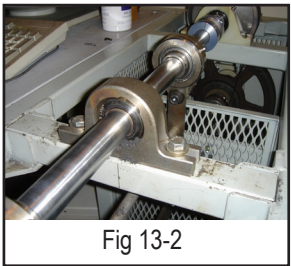


Fig 13-2

Step 7: Run equipment (see Fig 13-2). Bearings must be checked after startup to make sure that they are not running hot. If they are running hot, check step 6 again, and look for alignment problems. A Troubleshooting Guide is on page U-27 of the User Handbook (EDT catalog, Section U, or online at www.edtcorp.com). If there is still a problem after reviewing the installation, call the factory in Vancouver, WA or your local distributor Account Manager for assistance.

RED FLAG ALERT!



Stainless ball bearings can RUST since the balls and races are made of 400-series (hardenable) stainless steel. High concentrations of cleaning solutions, as well as other strong chemicals, will speed the corrosion process.

OPTION: Check with EDT for assistance to see if a plane bearing (fully non-corrosive) might be an option for your application.