

# BHJ Products, Inc.

## Parts List & Instructions

Product Name: **Cam Bearing Installer**  
BHJ Part#: **CBT-1**

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### Kit Contents:

- |   |  |
|---|--|
| <b>1x</b> Drive Hub with Handles            | <b>1x</b> Bearing Plug Application Chart |
| <b>1x</b> Drive Hub Retaining Knob          | <b>1x</b> Front Alignment Cone           |
| <b>1x</b> Draw Bar                          | <b>1x</b> Bearing Removal Spacer         |
| <b>1x</b> Draw Bar Extension & Fiber Washer | <b>1x</b> Anti-Seize Sample Packet       |
| <b>1x</b> Draw Bar Key                      | <b>1x</b> Storage Case                   |
| <b>24x</b> Bearing Plugs                    |  |

### Description

The Cam Bearing Installer smoothly draws both Babbitt and roller bearings into position using a heavy duty sealed-bearing drive hub. Precise-fitting guide plugs supplied in 24 common sizes (up to 55mm roller), hold the bearing square to the housing bore, ensuring straight installation.

Distortion-free installation, elimination of incorrect positioning of the bearings and easy oil-hole positioning make BHJ's Cam Bearing Installer superior to any other method of bearing installation. Bearings may also be removed from the block in the same manner, using the supplied removal sleeve.

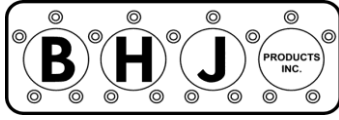


Conventional cam bearing installation tools use an expanding rubber-covered mandrel and a large hammer. This method allows the bearing to shift and potentially be driven in crooked. This can cause the camshaft to bind, leading to instant bearing failure. When installing needle type roller bearings, this method is absolutely prohibited by the bearing manufacturer, as it causes sidewall distortion, which locks the needles to the cage and prevents proper rotation.

The CBT-1 is supplied in a sturdy, foam-padded, plastic storage case and includes an application size chart for easy guide plug selection. Additional guide plug sizes are also available. The maximum useable length of the draw bar is 24", with the Installer assembled as shown above. One or more draw bar extensions may be purchased separately to accommodate longer blocks, such as 6 and 12 cylinder applications. Each extension adds 12.75" of length.

These features make the CBT-1 superior to any other method of bearing installation:

- Installs and removes bearings without distortion
- The only way to correctly install needle type roller bearings
- Eliminates mis-positioning of bearing
- Eases oil hole alignment



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### **Bearing Installation Procedure**

**NOTE: Threads in drive hub and on draw bar must be liberally lubricated with anti-seize compound. (Sample packet enclosed)**

1. Lubricate inner threads of drive head and outer threads of draw bar with anti-seize.
2. Carefully assemble drive head onto draw bar, with handles angled away from the draw bar, until end of draw bar is almost flush with front surface of drive head.
3. Install drive head retaining knob into front of draw bar, using a lubricant such as oil, or anti-seize on the thread. (The retaining knob prevents the drive head from being backed all the way off the end of the draw bar during use.)
4. Install draw bar extension onto main draw bar, using the included fiber washer and a lubricant such as oil, or anti-seize on the thread. (Additional draw bar extensions are available for longer blocks.)
5. Select appropriate bearing plug. Lubricate and install bearing onto the bearing plug, until bearing rests squarely against plug shoulder.
6. Hold bearing and plug in location to be installed and insert draw bar into cam tunnel, inserting the draw bar into the bearing plug center hole.
7. Install draw bar key into closest slot in draw bar behind the bearing plug.
8. Carefully rotate drive head, while holding bearing and plug, to start bearing into housing bore of block. Be careful that drive head is squarely aligned on the block, to draw bearing in straight with housing bore. Also check the draw bar key on the bearing end for adequate travel clearance, to prevent breaking the key on the block under load.

**NOTE:** If a large cam tunnel makes bearing alignment and installation difficult, use the included front alignment cone to help center the drive head. The centering cone installs onto the rear of the drive head and self-centers into the housing bore of the block.

9. Once bearing is started into housing, continue to rotate drive head to draw bearing entirely into housing bore. Be careful to keep drive head squarely aligned on the block.
10. Continue this process in all bearing housing locations.
11. Removal of bearings can be aided with the use of the included bearing removal spacer. Install the spacer between the back of the bearing plug and the draw bar key, to draw bearings out of housing bores, in the same manner as installing bearings. Again, check the draw bar key for adequate travel clearance, to prevent breaking under load.

**Call BHJ at (510) 797-6780 with any questions regarding the part, setup, or operation.**