

Agricultural adapter bearing installation

Tech tip

Figure 1



Proper installation of SKF mounted and adapter bearings are necessary for safe operation.

Failure to properly install adapter bearings into various styles of flanged housing may result in unsatisfactory performance. Common flanged housings are the pillow block and the two bolt or four bolt flanged housings.

Check to make sure the proper fit between the flanged housing unit and the adapter bearing exists.

Check the flanged housing for metal or dirt particles and clean thoroughly. Be sure that the grease fitting is installed firmly into the casting and clear of any debris. Clean the support surfaces and make sure those surfaces are flat.

Check the adapter bearing for cleanliness; clean any loose metal particles or debris from the grease holes.

Figure 2



Be sure that the housing and bearing are designed to be used together. SKF uses two small holes on the opposite sides of the outside diameter raceway and 180 degrees apart from one another to line up with a channel machined into the flanged housing unit, as most manufacturers do, to ensure our adapter bearings will be properly lubricated in accommodating housings.

Note: Some adapter bearings have the channel machined into the **outside raceway of the adapter bearing**, not the housing. It is not recommended to install SKF adapter bearings into this type of housing. Most manufacturers adopt the machined channel in the housing and SKF adapter bearings can replace most manufactured adapter bearing brands. To use an SKF adapter bearing, this type of housing must be replaced with a housing that has the grease channel in the housing.

- Mount the flanged housing in a vise, (figure 1) and insert the adapter bearing into the visible "slots" on the casting until it lightly pressfits to both sides of the housing.
- Rotate the adapter bearing into the casting bore by turning it a total of 90 degrees to the proper operating position. (figure 2)
- Bolt flanged housing securely to the support. **Note:** If the adapter bearing fails to properly seat in the casting (I.E. it is too tight to seat or, too loose to prevent outer ring rotation), check adapter and bore for debris that may be causing the binding or make sure the bearing and housing are of the proper fit. Another adapter bearing or flanged housing combination may be necessary.

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