


Safety Mount™





The Dodge® Safety Mount mounted spherical roller bearing is designed with a patented, built-in mounting system for easy installation and removal. Pre-assembled and pre-lubricated, Safety Mount uses only common tools for an installation four times faster than traditional SAF-style bearings—the safer, faster, and easier solution.

This is a quick reference guide only. Please refer to the instruction manual at dodgeindustrial.com for complete installation instructions and details.


Install non-expansion bearing first


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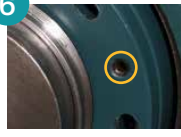
1 Inspect the shaft to ensure it is clean and within commercial tolerances.
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2 Remove all weight from the bearing.
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3 You will need the following common tools for proper installation:


 - 3/8" barring rod
 - Marker or grease pencil
 - Hex drive and socket
 - Ratchet
 - Dead blow mallet
 - Torque wrench
- 


4 Remove the lock plate and reinstall the hex head bolt before proceeding.
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5 Slide bearing assembly onto the shaft. If the bearing will not slide onto the shaft, rotate the nut assembly counterclockwise to expand the adapter until the bearing will freely slide onto the shaft. Repeat if necessary.
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6 Ensure the socket set screws are flush with the outer face of the external nut prior to mounting.
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7 Slide bearing to the desired position on the shaft. The mounting bolts should be in place, but not tightened.
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8 Slide the bearing against the mounting bolts to the inboard side of the bearing.
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9 Achieve zero reference point by hand tightening the locknut by spinning it clockwise until it will not move anymore. Insert a barring rod into the hole located on the side of the locknut and just pull down slightly by hand only until it stops with moderate pressure.
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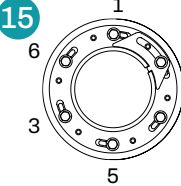
10 Verify that the zero reference point has been properly achieved by trying to slide the bearing axially on the shaft.
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11 Mark a line across the face of the nut, adapter, and shaft as a location reference. This mark will be important in future installation or resetting the steps.
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12 Loosen but do not remove the hex head bolts found on the locknut assembly.
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13 Hold the external locknut stationary while rotating the internal locknut counterclockwise until the hex cap screws are moved to the opposite end of the slots.
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14 After rotating, ensure the mark drawn on the locknut, adapter, and shaft are still aligned.

If the external locknut moved during this step, it is imperative to reposition the locknut assembly so the external locknut is aligned with the mark made in the prior step before proceeding. This ensures the predetermined amount of drive up will be properly achieved.
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15 Gradually tighten the hex cap screws in a star pattern until the external locknut firmly seats against the internal locknut and the gap is completely closed.

Multiple complete star patterns are required to ensure uniform drive-up.

Continued

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Remove the hex head bolt nearest to the slot in the adapter.

A slight gap may appear between the two nuts when the hex head bolt is removed—this is a normal occurrence and the gap will close when the hex head bolt is reinstalled.

17



Install the lock plate so that the tab fits into the adapter slot.

If the lock plate does not line up with the two holes, it can be flipped over to fit.

18



Reinstall the hex head bolt to secure the lock plate.

19

Table 1—Installation hex head bolt size and torque ratings

Shaft size (inches)	Hex HD bolt size & grade	Torque (max)		Socket size mm
		ft-lbs	Nm	
3 11/16 – 4	M8-1.25 X 35, CL 10.9	20	25	13
4 7/16 – 4 1/2	M10-1.5 X 40, CL 8.8	30	40	17
4 15/16 – 5	M10-1.5 X 45, CL 8.8	30	40	17
5 7/16 – 5 1/2	M12-1.75 X 45, CL 8.8	50	65	19
5 15/16 – 6	M16-2.0 X 45, CL 8.8	120	165	24
6 7/16 – 7	M16-2.0 X 50, CL 8.8	120	165	24

Again, using a star pattern, torque the hex head bolts to the values shown in the table below—first tightening them to 50% of full torque, then tightening again to 100% full torque value.

You may hear a slight pop or other sound as the bearing moves up the adapter—this is okay.

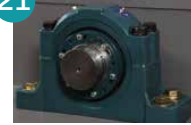
20



Bolt down pillow block to structure.

Note that the bearing will shift axially during installation or drive-up of the bearing, so it is important to position the housing with shoulder bolts away from you (opposite side of the nut) to allow for movement during the mounting process.

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The bearing is now fully mounted.

Install expansion unit

1

Follow steps one through five for mounting the non-expansion bearing.

2

If the locknut is facing away from the non-expansion bearing, align housing and snug the mounting bolts. Push the insert as far as possible in the direction of the non-expansion bearing.

3

If the locknut faces the non-expansion bearing, align housing and snug the mounting bolts. Position the insert in the middle of the expansion travel.

This is necessary because the insert shifts toward the nut during installation.

4

Follow remaining steps for mounting the non-expansion bearing.