

Cam Bearing Installation Caution on 2004-2018 Caterpillar C9 Diesel Engines

The AERA Technical Committee offers the following information regarding a cam bearing installation caution on 2004-2018 Caterpillar C9 diesel engines. This information should be considered anytime cam bearings are being replaced as correct positioning is critical to prevent engine damage.

Use the chart and diagrams shown below to correctly position the cam bearing from the front of the cylinder block. Be careful to align the bearing oil hole to the block oiling hole during installation. The front cam bearing (T) should also be installed to a depth of .010-.030" (.250-.750 MM) below the front block face.

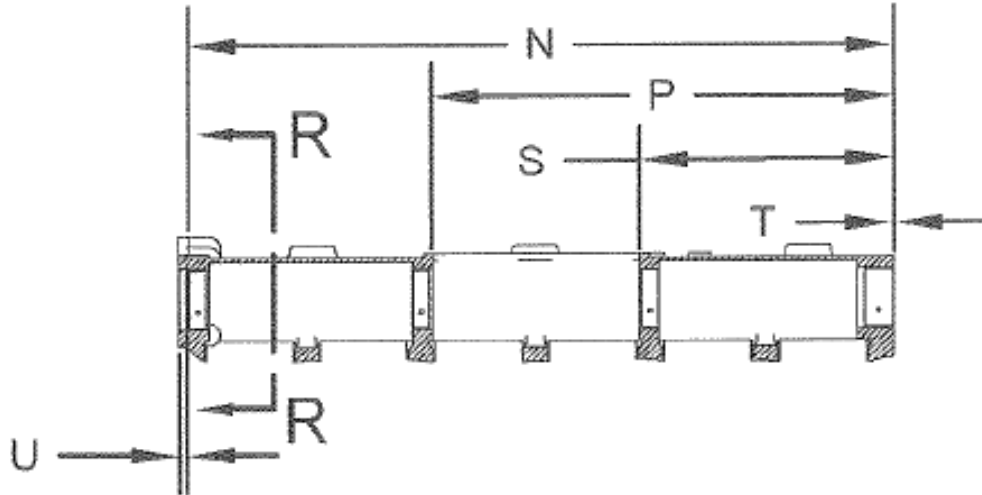


Figure 1. Bearing Installation Detail

Position N	32.115-32.177" (815.700-817.300 MM)
Position P	21.081-21.153" (535.700-537.300 MM)
Position S	11.563-11.625" (293.700-295.300 MM)
Position T	.010-.030" (.250-.750 MM)

After the four cam bearings have been installed and camshaft bearing fit has been verified, the rear cup plug should be installed to a depth (U) of .039-.059" (1.000-1.500 mm) below the rear block face.