

BB-06

MAINTENANCE MECHANIC TRAINING

TRAINER'S GUIDE

Duty BB: Spindles

BB-06: Set Bearing Load

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Instructions To The Trainer

1. The Learner will contact you when ready to practice setting a bearing load.
2. Be prepared to demonstrate the steps for this task.
3. Ask the Learner to contact the Evaluator when ready for the Skill Check.



Skill Objective

Given a spindle, bearings, spacers, and required components, set the bearing load for a spindle.

Task Standards

1. The spindle bearing load must be set to meet manufacturer's specification for end-play and radial movement.
2. The spindle must cut without causing chatter or out-of-round bores.
3. When the spindle is turning, heat caused by the bearing must be within the manufacturer's specifications.

What The Learner Will Need

This section contains the safety information, tools, and resources you will need before setting a bearing load.

SAFETY FIRST

**DON'T TAKE
CHANCES**

- Follow all Caterpillar facility safety standards when performing this task.
- Wear protective gloves when working with hazardous temperatures (extreme cold or heat).
- Spindles often have excessive weight; use caution when working on or around the spindle.



- precision measuring instruments: dial indicator, depth micrometer, and inside or outside micrometer
- rubber mallet
- pry bar
- deburring stone
- infrared or other thermometer
- grease (as recommended by the manufacturer)



- Engineering blueprint
- ERS history (to check for a repeated problem)



Practice Set-Up

The Learner may perform the following practice to help prepare for the Skill Check. Set up the practice for the Learner. Assist the Learner during the practice, if necessary; answer any questions concerning the task; and be prepared to demonstrate the task to the Learner. Make sure the Learner follows safe work practices while practicing the task.

Practice

Practice indicating parts and comparing them to print specifications. Read a print and identify a part. Locate the part and measure it to verify that it is within print specified tolerance.

Practice Objective

The Learner must show the part measurement matches the print specifications.

Next Step

Allow the Learner to continue practicing and developing skills needed to demonstrate the task. The Learner should ask the Evaluator to schedule a Skill Check when ready to demonstrate the task unaided and meet all the task standards and safe work practices.

