

BE-03

MECHANICAL MAINTENANCE TRAINING

SKILL CHECK GUIDE

Duty BE: Ways and Gibs

BE-03: Replace and Set Tychoway Bearings

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Rationale

This Skill Development Guide provides the knowledge a Learner needs to replace and set a Tychoway bearing. The Learner must demonstrate how to:

- remove a tychoway bearing and its adjustment gib from the frame of the machine
- select a replacement bearing
- attach it to the adjustment gib
- clean the bearing pocket
- lubricate the bearing
- install the bearing and adjustment gib in the machine
- set the required preload.

The Learner must keep the bearing clean, avoid damaging the bearing and the machine ways, and work safely.

Skill Check Set-Up

As an evaluator, you need to find a machine that can be out of service long enough to allow replacement of one or more of its tychoway bearings. Look up ahead of time the identification number of the tychoway bearing to be replaced and make sure it is in stock. Before allowing the Learner to start, make sure the required tools and equipment for the job are available.

What The Learner Will Need

This section contains the safety information, tools, and resources the Learner will need before replacing and setting a Tychoway bearing.



- Follow all Caterpillar facility safety standards when performing this task.



- replacement Tychoway bearing (or equivalent “roller pack” linear roller bearing)
- dial indicator and mounting hardware
- wrenches
- feeler gauges or shim stock
- shop towels
- general purpose degreaser
- oil specified for the machine lubrication system



- machine Operator
- Machine manufacturer’s prints, instructions, and specifications



Skill Check

Given a Tychoway bearing (roller pack) that must be replaced, replace and set the Tychoway bearing.

Needs
Mastered Practice

Safe Work Practices

_____ Needs
_____ Practice 1. Follow all Caterpillar Facility Safety Practices when performing this task.

Task Standards

_____ Needs
_____ Practice 1. The machine must move on its axis without binding or looseness from one end of travel to the other.

_____ Needs
_____ Practice 2. Machine ways and Tychoway bearings must not be damaged.

_____ Needs
_____ Practice 3. The Tychoway bearings must be preloaded according to the machine manufacturer's specifications.



Evaluator's Sign-Off

The Learner has demonstrated safe work practices and competent performance of the task.

Evaluator: _____ Date: _____

Learner: _____ Clock No: _____

