

CC-01a

MAINTENANCE MECHANIC TRAINING

TRAINER'S GUIDE

Duty CC: Gear Boxes
CC-01a: Rebuild Gear Box

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Instructions To The Trainer

1. The Learner will contact you when ready to practice rebuild a gear box.
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 request to rebuild a gear box, rebuild the gear box.

Task Standards

1. The gear box must be rebuilt using specified rebuild kit.
2. All screws must have Loctite 242 applied.
3. All flange and seals must have flange sealant applied to the surfaces.
4. All safe practices must be demonstrated.

What The Learner Will Need

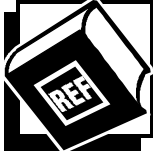
This section contains the safety information, tools, and resources you will need before rebuilding a gear box.



- Follow all Caterpillar facility safety standards when performing this task.
- Wear heavy industrial gloves for protection from the hazards associated with the cleaning solvents.
- An explosion hazards exists with cleaning solvents. Smoking is not permitted in the paint or cleaning area.
- Know the location of the MSDS for the cleaning solvents.
- Cleaning solvents must be disposed of according to the HAZMAT regulations.



- metric wrenches and sockets
- metric socket head wrenches
- punches and cold chisels
- snapping pliers
- pry bars
- soft and hard face hammers
- blocks
- depth gauges
- sealant
- 2004 lubricant
- bearings: 32004, 30204X, 32303J2, 6208JZ



□ Service and Repair Instructions Right-Angle Helical Bevel Reducers



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

Designate a gear box for the rebuilding activity. Ask the Learner to select the required repair kit. Check to ensure the proper kit is selected before beginning disassembly. Ask the Learner to:

- disassemble gear box
- clean the gear box components
- reassemble the gear box

Observe as the Learner disassembles, cleans, and reassembles the gear box to ensure that the gear box is disassembled, cleaned and inspected, and assembled properly. Check to make sure that the task standards are met.

The Learner is required to follow all the recommended safe practices associated with handling and disposing of cleaning solvents.

Practice Objective

The gear box must be reassembled using the specified parts. All screws must have Loctite 242 applied. All flange and seals must have flange sealant applied the surfaces. All cleaning solutions must be disposed of per HAZMAT regulations. All safe practices must be demonstrated.

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.