

R-02

MAINTENANCE MECHANIC TRAINING

TRAINER'S GUIDE

Duty R: Machine Shocks
R-02: Rebuild Machine Shocks

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Instructions To The Trainer

1. The Learner will contact you when ready to practice rebuilding a machine shock.
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 machine shock, rebuild the machine shock.

Task Standards

1. The inner surface of the cylinder must not show signs of scoring, ridges, or wear.
2. The piston rod must not be bent, rough or scored.
3. The piston ring must not be broke or show signs of wear or scoring.
4. All seals in the rebuild kit (Piston rod seal and wiper and all O-rings) must be replaced.
5. The inner tube lock pin must be in its respective hole to lock the inner tube (cylinder) to the body and prevent rotation.
6. The adjusting ring pin must be in its respective hole to connect the adjusting ring to the outer tube (sleeve) and passes through an annular slot in the body.
7. Loctite 242 must be applied to the button retaining screw.
8. All required safe practices must be demonstrated.

What The Learner Will Need

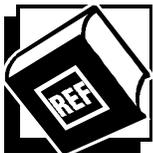
This section contains the safety information, tools, and resources you will need before rebuilding a machine shock.



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



- internal snap ring pliers
- brass rod and hammer
- screwdriver (flat blade)
- Allen wrenches
- air impact wrench with Allen insert for button cap screw
- Arbor press
- air hose and fitting for machine shock
- wiping rags, paper towels
- Loctite 242



- Manufacturer's parts list, instructions, and drawings
- Work Order printout
- Repair Ticket
- Crib parts printout



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 machine shock 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 the machine shock.
- Inspect major components and determine which should be replaced.
- Install all parts supplied in the rebuild kit.
- Reassemble the machine shock with rebuild kit parts.

Observe as the Learner rebuilds the machine shock to ensure that the machine shock is disassembled and reassembled properly. Check to make sure that the task standards are met.

Practice Objective

The major components will be serviceable. The inner surface of the cylinder must not show signs of scoring, ridges or wear. The piston rod must not be bent, rough or scored. The piston ring must not be broke or show signs of wear or scoring. All seals in the rebuild kit (Piston rod seal and wiper and all O-rings) must be replaced. The inner tube lock pin must be its respective hole to lock the inner tube (cylinder) to the body and prevent rotation. The adjusting ring pin must be its respective hole to connect the adjusting ring to the outer tube (sleeve) and passes through an annular slot in the body. Loctite 242 must be applied to the button retaining screw. 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.