

# R-02

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## MAINTENANCE MECHANIC TRAINING

### SKILL CHECK GUIDE

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

Issued 01/01/99

## Rationale

This Skill Development Guide provides the knowledge a Learner needs to rebuild a machine shock. The Learner must be able to select a repair kit, disassemble and reassemble the machine shock.

## Skill Check Set-Up

Designate a machine shock for the rebuilding activity. Check to ensure that the kit required for the machine shock is in stock.

Observe as the Learner reassembles the machine shock. Check to ensure that all defective parts are replaced.

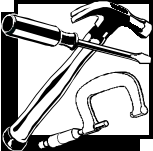
Provide the tools, materials, and resources needed to demonstrate the task.

## 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



## Skill Check

Given a request to rebuild a machine shock, rebuild a machine shock.

Needs  
Mastered Practice

### Safe Work Practices

\_\_\_\_\_ \_\_\_\_\_ 1. Follow all Caterpillar facility safety standards when performing this task.

### 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.



## Evaluator's Sign-Off

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

Evaluator: \_\_\_\_\_ Date: \_\_\_\_\_

Learner: \_\_\_\_\_ Clock No: \_\_\_\_\_

