

# N-02

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## MAINTENANCE MECHANIC TRAINING

### SKILL CHECK GUIDE

Duty N: System Troubleshooting  
N-02: Troubleshoot Pneumatic System

Issued 6/01/98

## Rationale

This Skill Development Guide provides the knowledge a Learner needs to troubleshoot pneumatic systems. The Learner must be able to demonstrate troubleshooting a pneumatic system.

## Skill Check Set-Up

Set up a pneumatic system for troubleshooting. Introduce a fault into the system that the Learner must identify. Ask the Learner to recommend the corrective action to return the system to normal operating conditions.

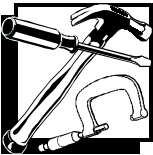
Provide the tools, materials, and resources needed to demonstrate the task.

## What The Learner Will Need

This section contains the safety information, tools, and resources you will need before troubleshooting a pneumatic system.



- Follow all Caterpillar facility safety standards when performing this task.
- Perform lockout/tagout when checking operation of the three-way solenoid valve. There is 110 VAC or 24 VDC supplied to the valve.



- Maintenance Mechanic hand tools



- pneumatic print, if available
- manufacturer's specifications



## Skill Check

Given a pneumatic system that is not operating according to manufacturer's specifications, troubleshoot pneumatic system.

Needs  
Mastered Practice

### Safe Work Practices

- |       |       |  |
|-------|-------|--|
| _____ | _____ | 1. Follow all Caterpillar facility safety standards when performing this task.   |
| _____ | _____ | 2. Perform lockout/tagout when checking operation of the three-way solenoid valve. There is 110 VAC or 24 VDC supplied to the valve. |

### Task Standards

- |       |       |  |
|-------|-------|--|
| _____ | _____ | 1. The fault must be identified.   |
| _____ | _____ | 2. The recommended corrective action must return the pneumatic system to normal operating conditions as shown on the pneumatic print or 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: \_\_\_\_\_

