

# Pneumatic Trouble Shooting Guide

Tools should be tested under their specified working load.

Running a tool at free speed is harmful to the tool and not an accurate test.

Check to make sure that the tool is rated for the application.

Make sure you are using the proper accessories for the tool and application.

## Before disassembling the tool check the environment issues

If the tool is running slow and has low RPM's

1. Squirt a good amount of air tool oil (10weight) into the air fitting. Run tool free speed until it picks up to normal RPM's  
If there is no improvement. Check to make sure that there is no debris clogging the screen material.

2. Check the air pressure at the nearest guage to the tool.

Tools in general are rated at 90 psi. When pulling the trigger on most good 1/2" Impacts the psi drops by 20 lbs.

Compressor needs to be set at least 110 psi for one tool.

3. Check to make sure the CFM output rating on your compressor exceeds the CFM requirement for your tool.

Check to make sure that your hose,couplers, and fittings are right for your tool.

Example: A 1" impact needs 1/2" couplers and air hose to work properly.

## Tool Repair Issues

### General

Air leaks around inlet

First check to see if air is leaking from your air fitting and tool inlet threads.

Test- Hook up tool to air..... drip,spray, squirt - liquid around the area to pin-point the leak.

Often a bit of pipe tape will fix the issue

Tool starts running as soon as the tool is plugged in

The throttle is bad

When pulling the trigger no air enters the tool

Something blocking air passage

Check inlet screen for blockage

### Impacts

Impacts that runs good free speed and then locks up under a load

Broken Hammering components

Do not run at all when trigger is pulled, the air flows out of the exhaust

Air motor is bad

### Ratchets

Motor runs good but the head just vibrates

Replace headkit - check teeth on the yoke

Does not run at all when trigger is pulled, but is coming out exhaust

Air motor or gears locked up

### Drills

The locked up when pulling the trigger

Could be broken gears or broken blades

The tool air motor is running fine but you can hold the chuck in your hand and it does not spin

The nose cone has loosened from the the motor housing

The tool runs slowly and holding it with you hand the chuck stops

Air motor parts are worn or needs oiled

### Grinders

Tool runs slowly but you can stop the tool easily by holding the output

Tool's air motor is worn out

Needs oil

The tool make a grinding noise and bad vibration

The gears are worn out

### Sanders

Bad vibration when applied to the work surface

Check to make sure that your pad is not warped or damaged

Also, it could be the drive bearings are bad

Tool runs slow or bogs down under a load

Oil tool and run out excess oil.

Muffler may be clogged

Remove and blow out(using compressed air) muffler material

### Air Hammers

Must have a chisel in tool to hammer for properly operation

The tool hammers weak and often locks up

Check to see if the handle has broken its seal from the barrel

Reset valve assembly and locktight barrel to handle

Air blows through tool but there is no hammering

Shake the tool to hear if the piston is stuck in the barrel

Tap the piston with a punch to see if it frees up.