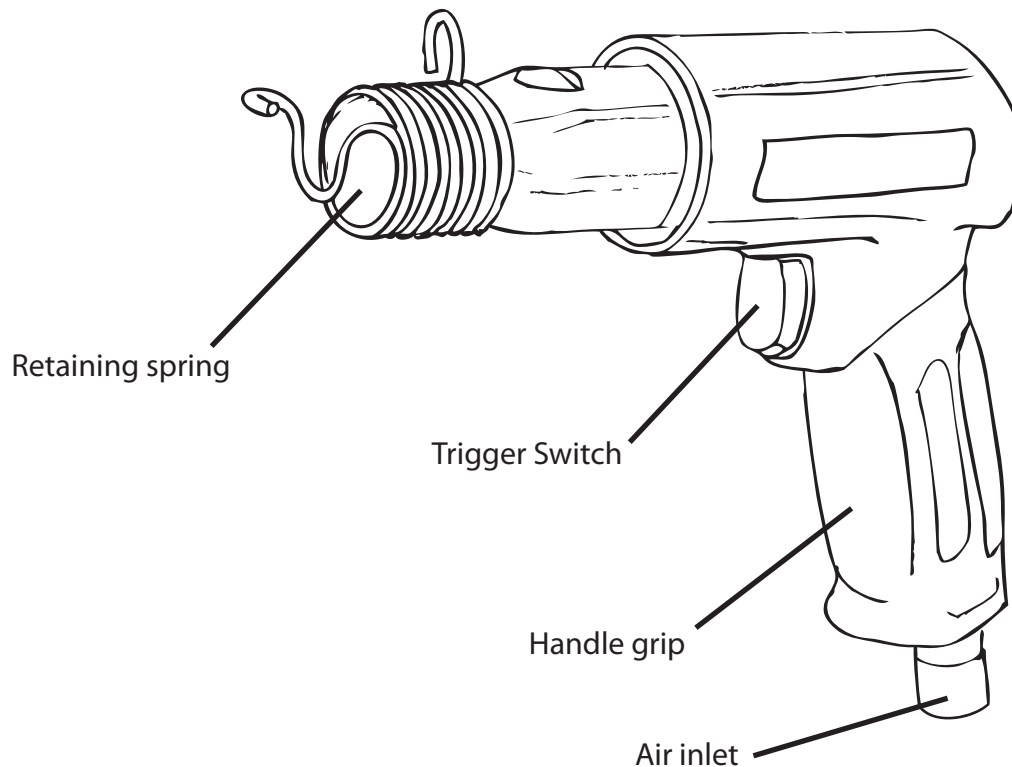


## General

- A. Operate only with your instructor's permission and after you have received instruction.
- B. Remove jewelry, eliminate loose clothing, and confine long hair.
- C. Make sure all guards are in place and operating correctly.
- D. Always use proper eye protection.
- E. Report any broken or non working parts to the Supervisor or TA.
- F. Report any cuts or injuries no matter how small they are.

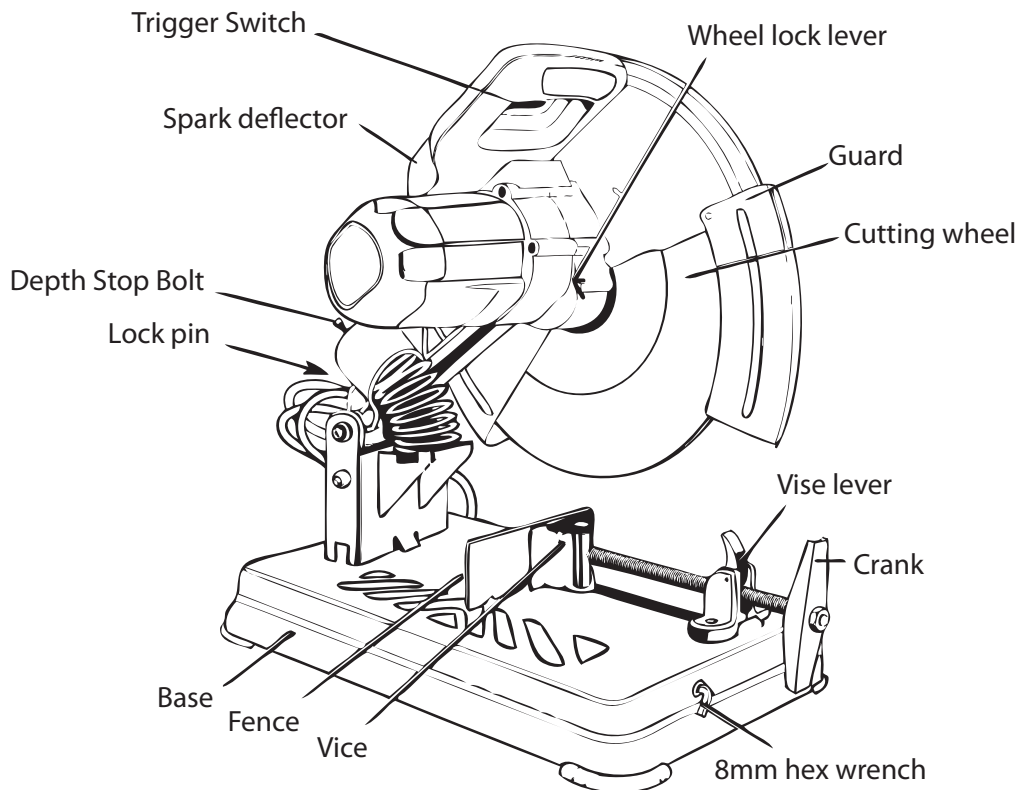
1. **Never lift or carry any pneumatic tool by the air hose.**
2. **Be sure to disconnect the air supply when changing or loading the chisels.**
3. **Lubricate tool before each use.**
4. **To load a chisel use the rear tab, remove spring retainer**
5. **Place chisel in hammer, slide spring over chisel**
6. **Using front tab, tightly install spring retainer over chisel.**
7. **Connect hammer to air supply.**
8. **Air supply should be set to 90 PSI.**



## General

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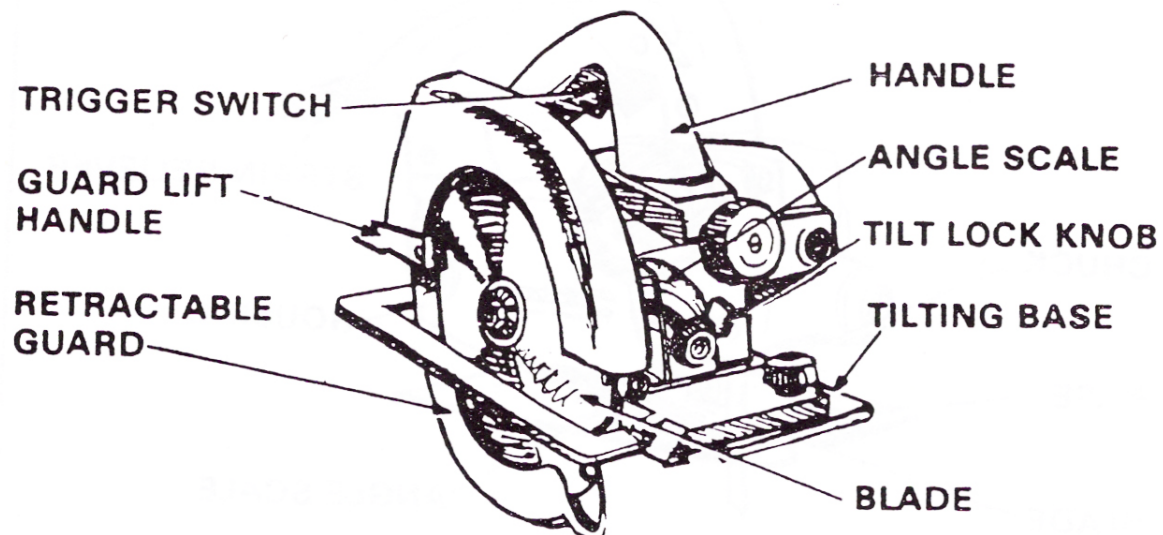
1. **Before using, inspect the wheel for cracks or flaws. If such a crack or flaw is evident discard the wheel.**
2. **Be sure the switch is in the off position before connecting to the power source.**
3. **Never start the tool with a person in line with the wheel, sparks and chips will shoot out the back of the saw.**
4. **Make sure the work piece is clamped in the vise or with special fixture clamps.**
5. **Allow cut off parts to cool before handling.**
6. **Do not attempt to cut wood or plastic with this tool.**
7. **Do not operate this tool near flammable liquids, gases or dust.**
8. **A face shield should be used while operating the saw.**



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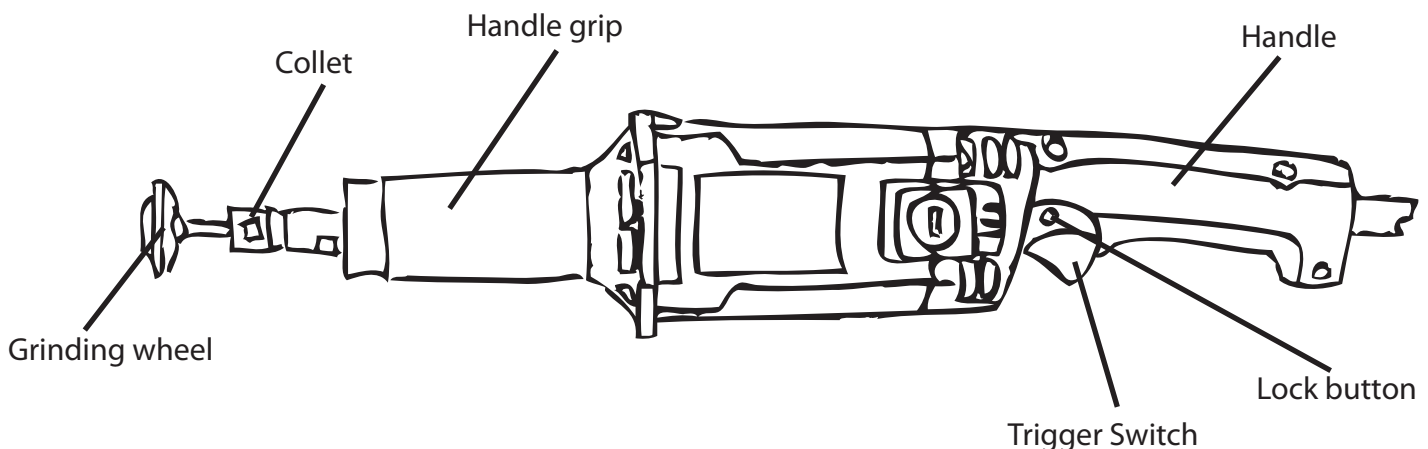
1. **Be sure the material you are cutting is adequately supported.**
2. **Make sure you are using the proper blade for the type of material you are sawing**
3. **Check the base setting for the proper depth of cut.**
  - 3a. **The blade should extend below the work  $\frac{1}{2}$ " to 1" below the material.**
4. **Make sure the guard returns automatically to cover the blade after each cut.**
5. **Make sure the power cord is clear of the blade.**
6. **Do not start the cut until the saw has reached full speed.**
7. **Advance the saw slowly, straight through the work. Do not twist or turn the tool.**
8. **If the saw blade binds or smokes, stop cutting immediately, never back the saw out of the material with the blade spinning.**
9. **The blade should be extended below the work until the blade is  $\frac{1}{2}$ " to 1" below the material.**



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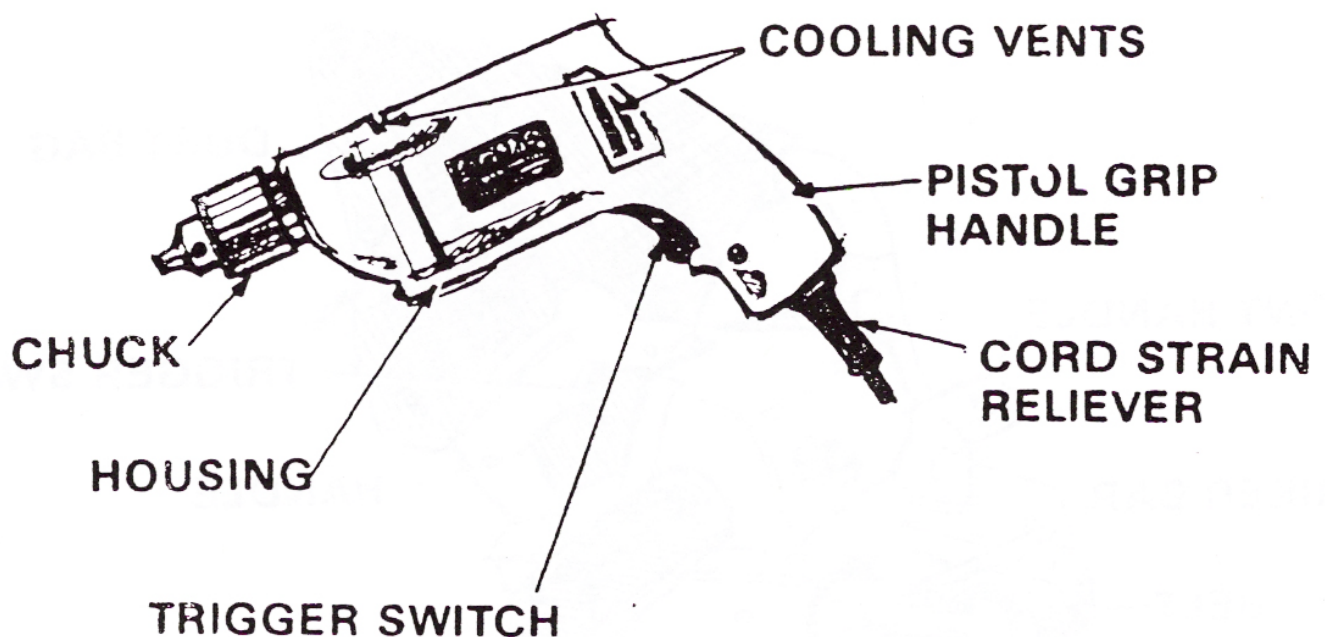
1. **Never lift or carry any portable electric tool by the power cord.**
2. **Be sure the switch is in the off position before connecting to the power source.**
3. **Disconnect from the power source when changing wheels, making adjustments, or when the grinder is not in use.**
4. **Be sure to inspect the wheel for cracks or flaws. If such a crack or flaw is evident discard and replace the accessory.**
5. **Start the tool in a well protected area, never start the tool with a person in line with the wheel.**
6. **Make sure the work piece is clamped or rigidly held and the area of the grinding is clear of obstructions, people, and flammables.**
7. **Hold grinder with both hands and grinding pressure should be constant. Do not force or bounce the wheel during operation.**
8. **To lock the trigger to the "on" position, depress the trigger fully then hold and press the locking button. To release the lock depress the trigger fully and release.**



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- E. Report any broken or non working parts to the Supervisor or TA.
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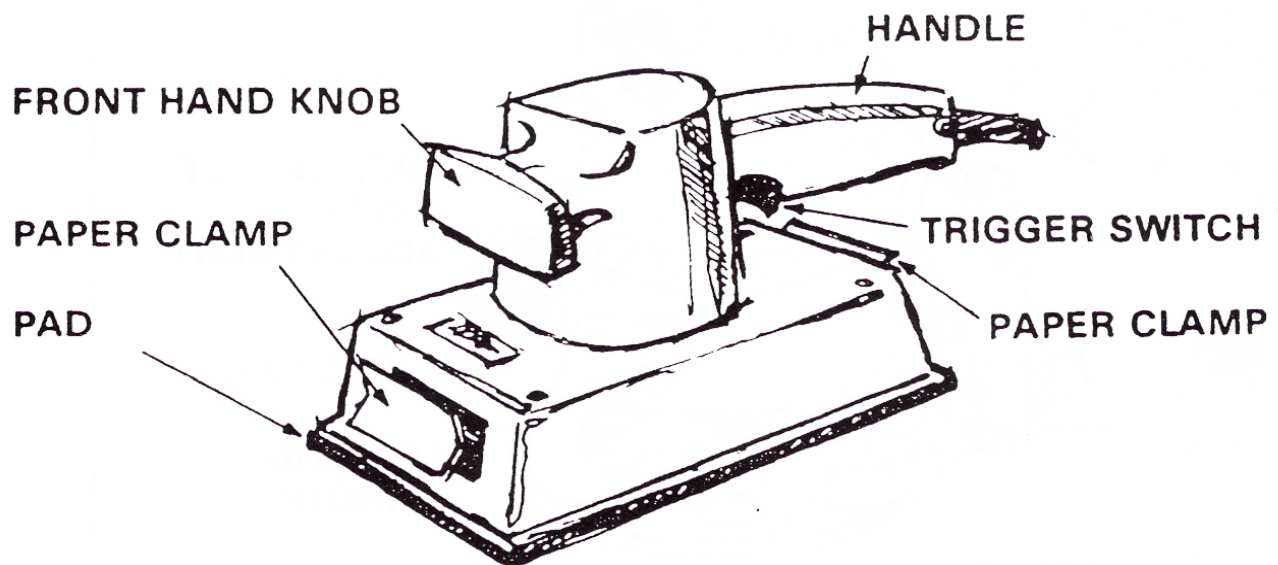
1. **Never lift or carry any portable electric tool by the power cord.**
2. **Know the proper size and type of bit for the material and application being drilled.**
3. **Be sure the switch is in the off position and the chuck key is removed before connecting to the power source.**
4. **Unplug the drill when changing bits.**
5. **Mark hole location with center punch (metal) or AWL (wood) before drilling.**
6. **Be sure your work is tightly clamped or secure before drilling.**
7. **Drill with straight even steady pressure.**



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- D. Always use proper eye protection.
- E. Report any broken or non working parts to the Supervisor or TA.
- F. Report any cuts or injuries no matter how small they are.

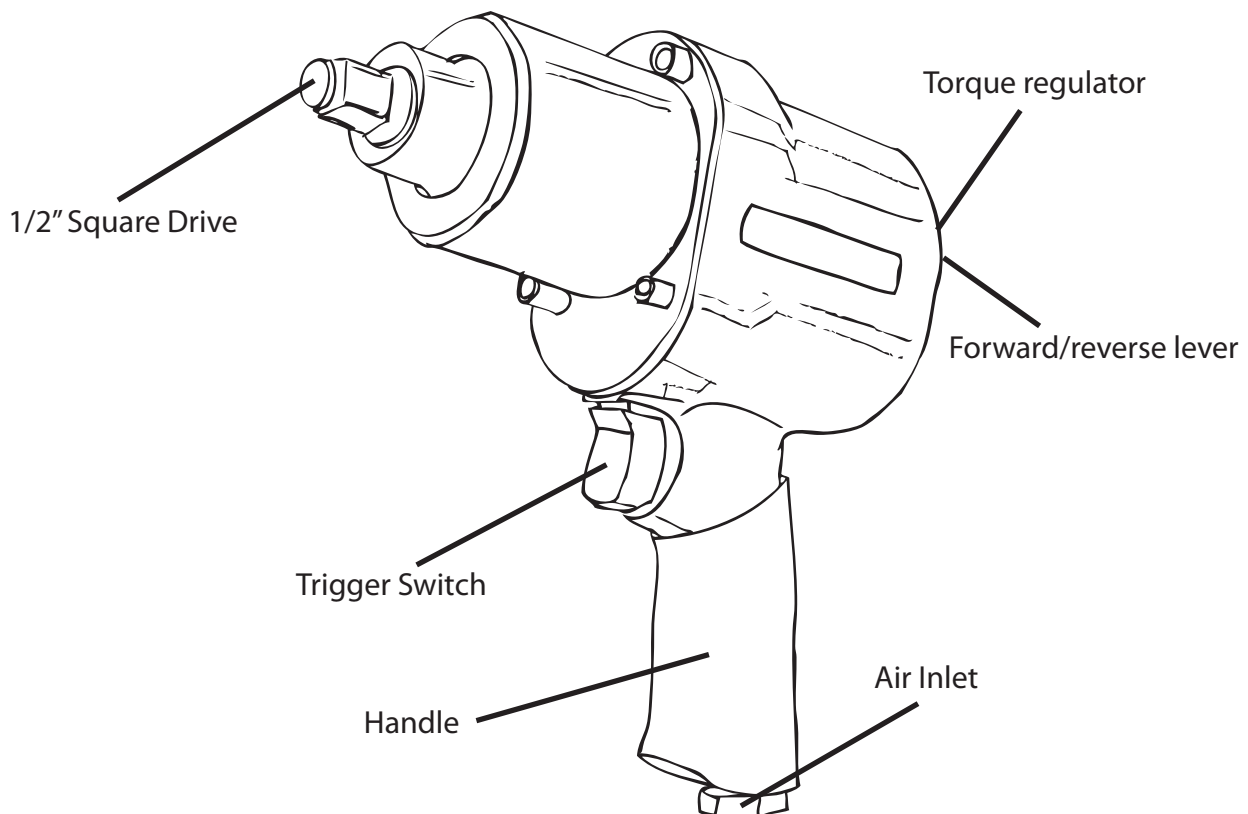
1. **Never lift or carry any portable electric tool by the power cord.**
2. **Be sure the switch is in the off position before connecting to the power source.**
3. **Make sure the abrasive sheet is in good condition and properly installed on the tool.**
4. **Start the tool above the work, set it down evenly and move it slowly over the pattern area to be sanded.**
5. **Lift the sander from the work before stopping the motor.**
6. **Do not set the sander on the work bench until it has stopped running.**



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- D. Always use proper eye protection.
- E. Report any broken or non working parts to the Supervisor or TA.
- F. Report any cuts or injuries no matter how small they are.

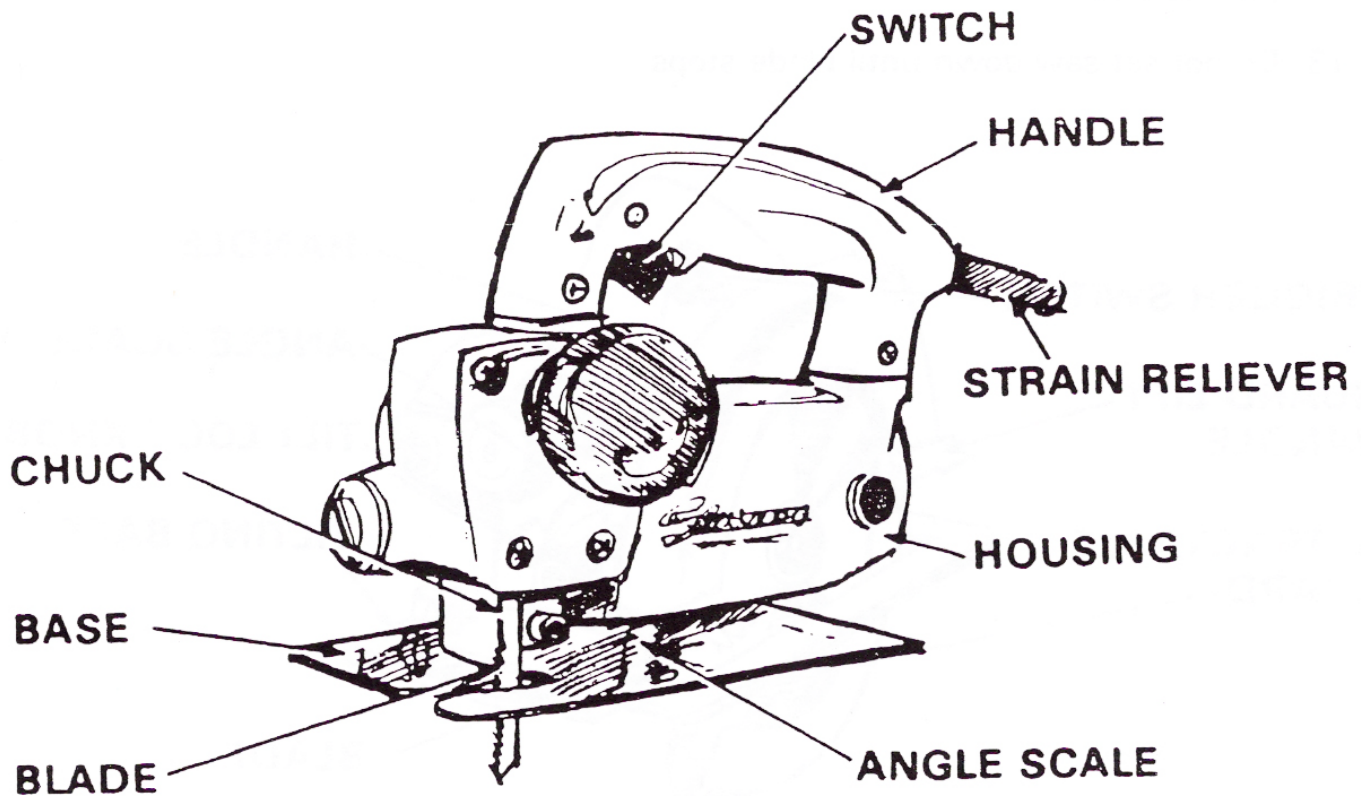
1. **Never lift or carry any pneumatic tool by the air hose.**
2. **Be sure to disconnect the air supply when changing or loading the chisels.**
3. **Lubricate tool before each use.**
4. **Impact wrench sockets and accessories must be used with this tool, Do not use hand sockets and accesories**
5. **Connect wrench to air supply.**
6. **Set torque regulator to avoid over tightening.**
7. **Place tool in forward or reverse ("F" or "R").**
7. **Connect wrench to air supply.**
8. **Air supply should be set to 90 PSI.**



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- B. Remove jewelry, eliminate loose clothing, and confine long hair.
- C. Make sure all guards are in place and operating correctly.
- D. Always use proper eye protection.
- E. Report any broken or non working parts to the Supervisor or TA.
- F. Report any cuts or injuries no matter how small they are.

1. **Make sure the blade is the correct type for the material and that it is tightly clamped in the chuck.**
2. **Be sure the switch is off before connecting to the power source.**
3. **Use a vise or clamps to securely hold the material to be cut.**
4. **Keep the cutting pressure constant, do not force the blade into the work.**
5. **Always keep the base tightly against the material being cut.**
6. **Do not set the saw down on the bench until it has stopped.**
7. **If the blade is in the tool be sure and lay the tool on its side.**



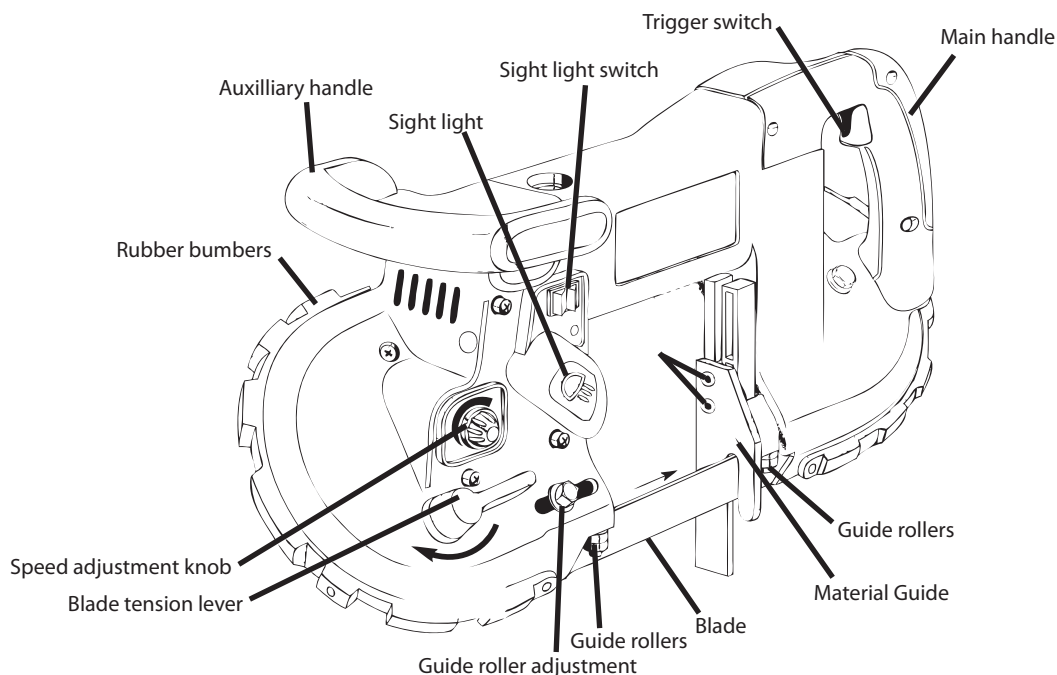


# Portable Bandsaw

## General

- A. Operate only with your instructor's permission and after you have received instruction.
- B. Remove jewelry, eliminate loose clothing, and confine long hair.
- C. Make sure all guards are in place and operating correctly.
- D. Always use proper eye protection.
- E. Report any broken or non working parts to the Supervisor or TA.
- F. Report any cuts or injuries no matter how small they are.

1. **Never lift or carry any portable electric tool by the power cord.**
2. **Be sure the switch is in the off position before connecting to the power source.**
3. **Mount the material to be cut solidly in a vise or other clamping device.**
4. **Never use the tool by resting it on a surface and bringing the material to the blade.**
5. **Bring the material guide into contact with the work piece before turning the saw on.**
6. **Carefully avoid bringing the band saw blade suddenly and heavily into contact with the material.**
7. **During cutting, if the band saw becomes locked or jammed in the work piece material, stop the blade immediately.**
8. **Hold the saw firmly in both hands during operation.**
9. **Do not make any speed changes unless tool has been turned off.**

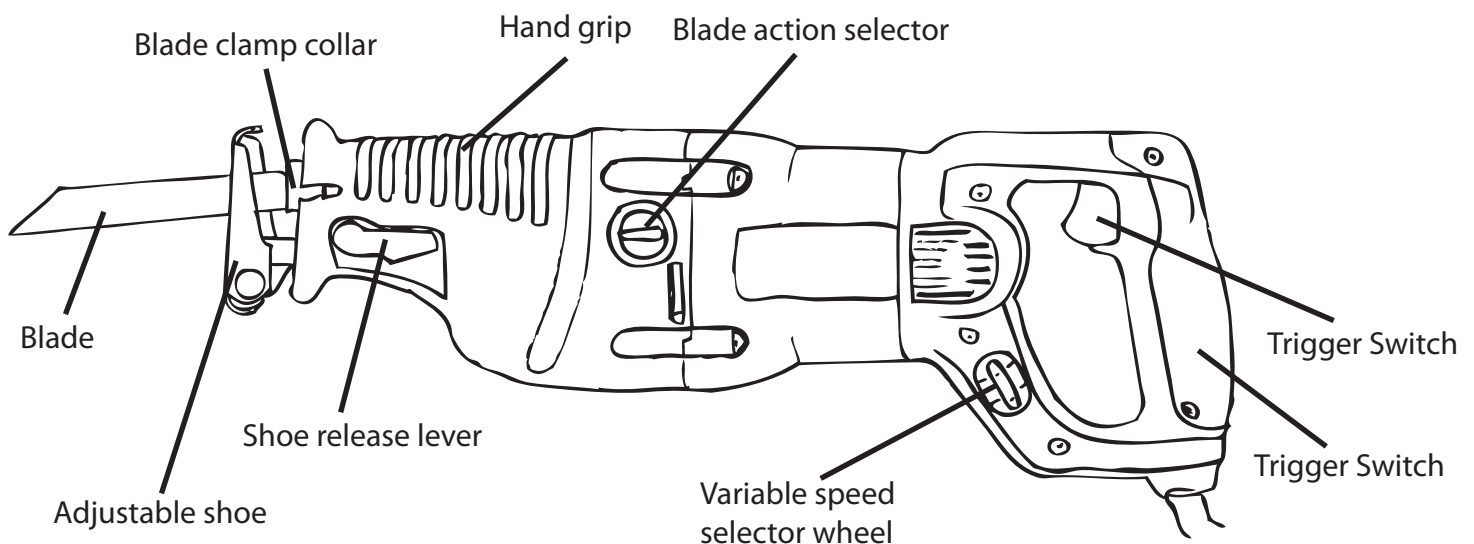


# Recipricating Saw

## General

- A. Operate only with your instructor's permission and after you have received instruction.
- B. Remove jewelry, eliminate loose clothing, and confine long hair.
- C. Make sure all guards are in place and operating correctly.
- D. Always use proper eye protection.
- E. Report any broken or non working parts to the Supervisor or TA.
- F. Report any cuts or injuries no matter how small they are.

1. **Never lift or carry any portable electric tool by the power cord.**
2. **Be sure the switch is in the off position before connecting to the power source.**
3. **Disconnect from the power source when changing blades, making adjustments, or when the saw is not in use.**
4. **Do not overreach. Keep proper footing and balance at all times.**
5. **Do not force the power tool through the cut, let the blade do the work.**
6. **Hold tool with both hands securely while operating to avoid kickback.**
7. **Use clamps or other practical methods to secure and support the work piece.**
8. **Keep hands away from moving parts and the cutting area.**
9. **Never hold the work in your hand, lap, or against parts of your body when sawing.**
10. **Do not operate the tool for long periods of time, the vibration can cause permanent injury to fingers, hands, and arms.**



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- C. Make sure all guards are in place and operating correctly.
- D. Always use proper eye protection.
- E. Report any broken or non working parts to the Supervisor or TA.
- F. Report any cuts or injuries no matter how small they are.

1. **Never lift or carry any portable electric tool by the power cord.**
2. **Be sure the switch is in the off position before connecting to the power source.**
3. **Disconnect from the power source when changing bits, making adjustments, or when the router is not in use.**
4. **Be sure the collet chuck is tight and the bit is secure.**
5. **Make sure the work piece is clamped or rigidly held and the area of router travel is free of obstructions.**
6. **Hold router with both hands and cutting pressure should be constant. Do not force or jam the bit into the work.**
7. **Make several shallow cuts incrementally increasing the depth for the final pass.**
8. **Make a trial cut in a piece of similar scrap material.**

