

# Woodshop Operation and Safety

## Hand Tools

Remember to wear eye protection  
and remove jewelry/loose clothing.

# 3/8" Drill



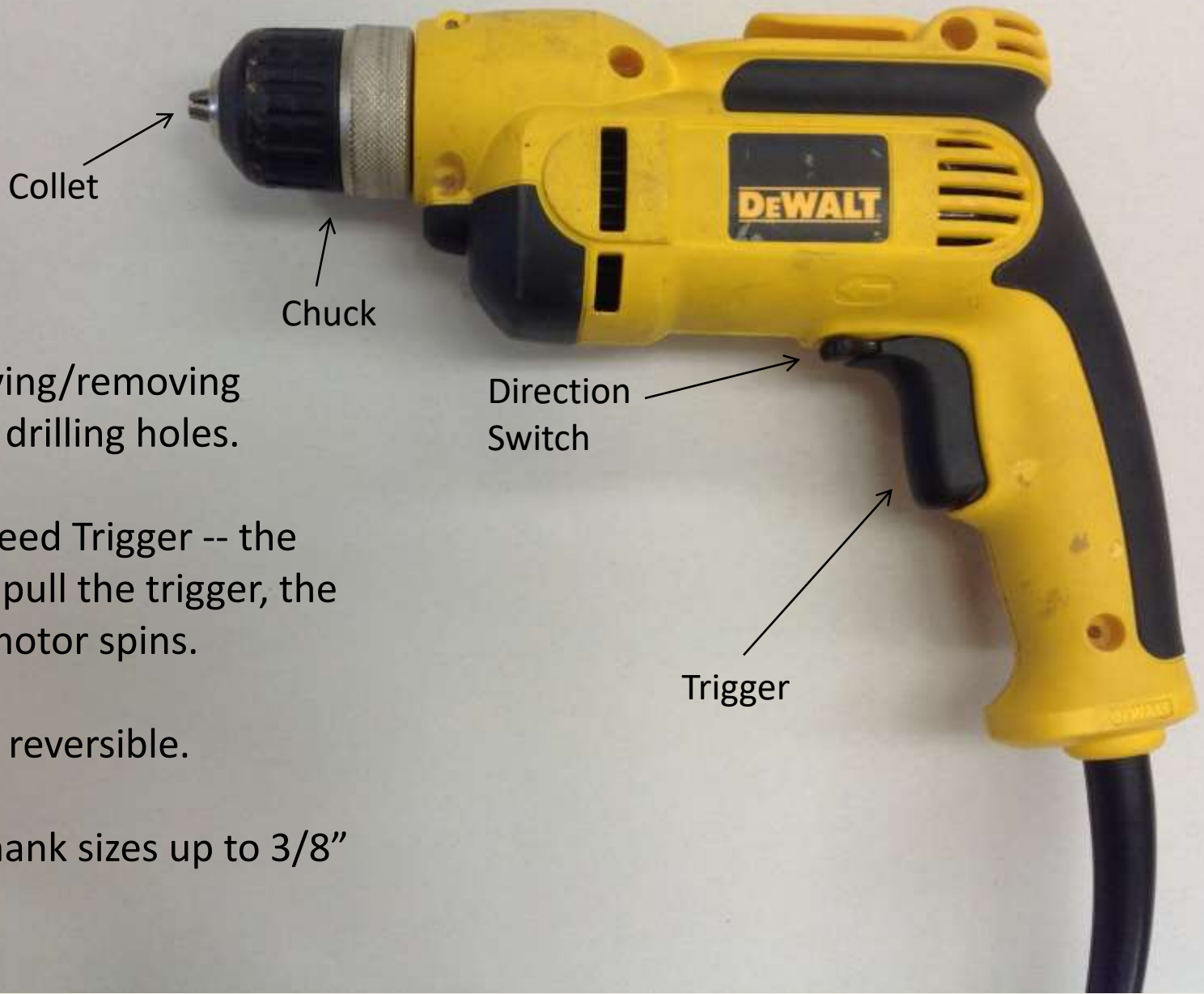
This entire section spins during operation.

This area is also a hazard.

When operating, keep hair tied back and loose clothing away from spinning parts. These materials can get wound up in the tool.

Wear eye protection.

# 3/8" Drill



Collet

Chuck

Direction  
Switch

Trigger

Use for driving/removing  
screws and drilling holes.

Variable Speed Trigger -- the  
harder you pull the trigger, the  
faster the motor spins.

Direction is reversible.

Can hold shank sizes up to 3/8"



Driver Nib



Drill Bit



Paddle Bit

Different bits for the 3/8" drill

Note: even though the head of the paddle bit is 5/8", the shank is small enough to fit in the hand drill.

Larger bits should be used in the Drill Press.



Turn the chuck in opposite directions to tighten and loosen.

When operating, keep hair tied back and loose clothing away from spinning parts. These materials can get wound up in the tool.

Wear eye protection.



# PALM SANDER

Wear eye protection.

Hearing protection may also be necessary.

For extended periods of sanding, or when sanding hazardous or “mystery” materials – old paint, unfamiliar lumber – wear a dust mask.



# Palm Sander

On/Off Switch

Use for light sanding and finishing.

Will smooth a surface without taking away much material.

Note: the switch might be in "ON" position when plugged in. Keep control of the sander while plugging in.

Holds  $\frac{1}{4}$  sheet of sand paper.



Remove paper clamp lever from tab (both sides) to change out sand paper

# BELT SANDER



Wear eye protection.

Hearing protection may also be necessary.

Wear a dust mask when sanding for extended periods or when sanding hazardous material i.e. old paint, exotic woods, MDF.



# Belt Sander



Use for evening out rough surfaces, removing paint, light shaping.

This particular model has an ON/OFF switch. Make sure the tool is on its side and away from loose clothing before plugging into outlet. If in the ON position when plugged in, it could run across table or catch loose material.

# Belt Sander

This model has a trigger switch, but can be locked on. Pull trigger once and release before plugging into power source. This will ensure trigger is unlocked.

This is not a grinder. For removing large amounts of material, use saws and grinders first, then move to sanders.

Remember : GENERAL TO SPECIFIC.



# ANGLE GRINDER



Wear eye protection,  
face mask, and ear  
protection.

If grinding metal, be  
aware of where sparks  
are flying.

Keep hair tied back,  
long, loose sleeves  
rolled up. Shirt tucked  
in.



# Angle Grinder

Use grinders for shaping and heavy removal.

Various wheels and discs for more aggressive grinding to light finishing.

Several different models in the shop

Make sure switch or trigger is unlocked before plugging into power source.



# Angle Grinder

The handle can be moved to different positions but must be used at all times. TWO HANDS.

Gloves may be necessary but be sure you can maintain control of the tool while working.

Hold tool and slight angle to surface. Do not attempt to work wheel into small areas. This can cause kickback.





# BRAD NAILER

Wear eye protection. In some situations brads can simply bounce off the surface of wood and fly in unpredictable paths.

Make sure everyone in surrounding area is wearing eye protection as well.

Keep fingers well away from area around nozzle when firing. Brads are relatively soft. If they encounter a knot or hard area in a piece of wood, they can easily change course and reemerge, especially longer brads.



## BRAD NAILER

Uses compressed air to push wire brads into wood. **WOOD ONLY**

This model fits brads from 5/8" to 1 3/8"

For tight, strong connections, it is best to use in combination with wood glue.

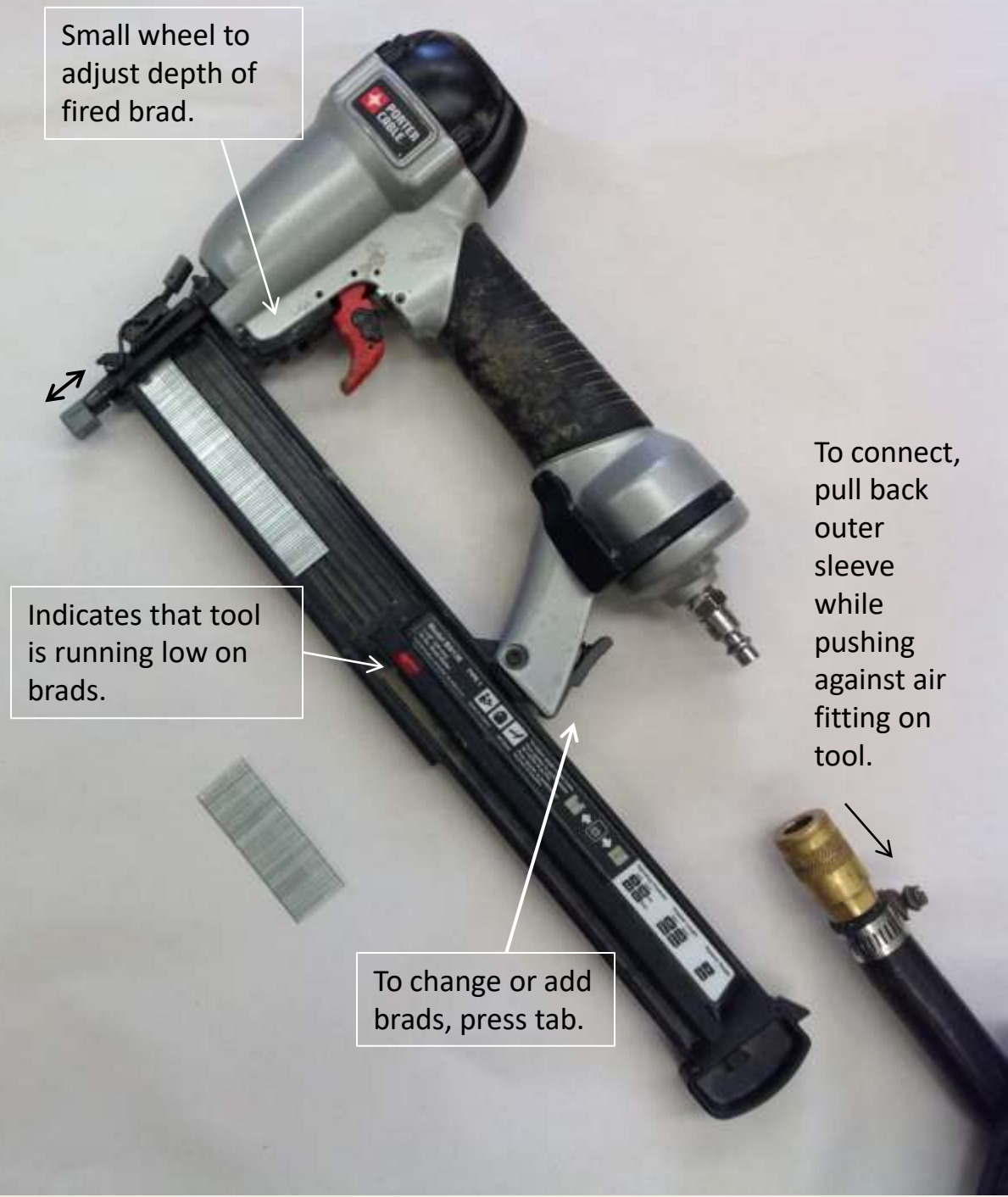


## BRAD NAILER

**SAFETY FEATURE:** The nozzle must be compressed in order to fire brads.

When inserting brads, slide to the top and front of magazine before closing. Check that there are no brads stuck at the top, ready to be fired.

PSI should be set between 70 and 120. We tend to keep it around 90.



Small wheel to adjust depth of fired brad.

Indicates that tool is running low on brads.

To change or add brads, press tab.

To connect, pull back outer sleeve while pushing against air fitting on tool.

# JIG SAW

Wear safety glasses

Clamp your work to a table.

Keep both hands clear of blade's path. DO NOT PLACE FINGERS UNDER YOUR WORK.



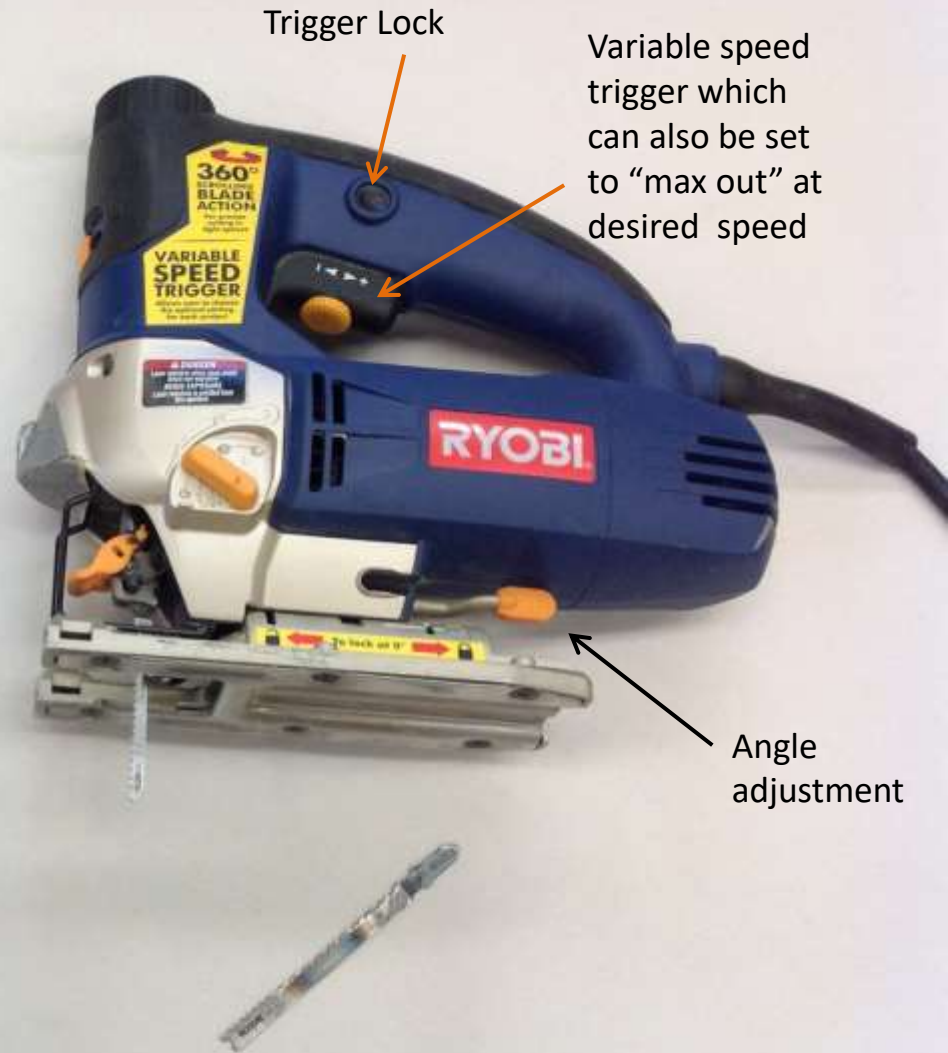


# JIG SAW

Blade moves in reciprocating motion, up and down, while you push forward through material, usually plywood.

Ideal for cutting contours or on jobs that are too big to fit on BAND SAW.

Variable speed trigger allows you to move at slow, careful pace.





# JIG SAW

Before getting started, check that blade is long enough for cutting desired material. A blade that is too short can cause kickback.

Also, make sure you are using a blade with the appropriate tooth size. Teeth that are too large will tear material while cutting.

Change blades while tool is unplugged.

Pull orange tab all the way up to change blades.

