

MITER SAW PROCEDURE (BLACK & DECKER - 12")

A. SAFETY PROCEDURES

- 1) A face shield is recommended when operating a mitre saw.
- 2) Do not wear a glove on your trigger hand; you may wear a snug fitting glove on your other hand.
- 3) Do not use the saw in a damp or wet location.
- 4) Do not over reach, keep proper footing and balance at all times.
- 5) Do not use to cut ferrous metals, (those with any iron or steel content). Remove any tools or metal parts from immediate area. Remove nails from wood before cutting.
- 6) Unplug the Miter Saw before making any adjustments, when changing the blade, or when doing any checks.
- 7) All guards must be in place before the mitre saw is plugged in and remain in place at all times during operation.

B. CHANGING THE BLADE

- 1) With the saw arm in the upper position, raise the lower guard as far as possible.
- 2) Use a flat bladed screwdriver to loosen, (but do not remove), the Guard Bracket Screw.

Note: The Guard Bracket Screw can only be seen when the lower guard is raised as far as possible. See fig. #5.

- 3) Raise the Guard Bracket enough to permit access to the blade screw.
- 4) With the lower guard in the raised position, depress the spindle lock button and rotate the blade with the other hand until you feel the lock engage. Continue to depress the spindle lock button until you have loosened the blade screw.
- 5) Using the supplied blade wrench or a 1/2" combination wrench loosen the blade screw by turning it clockwise, as this screw has left hand thread on it.
- 6) Holding the blade with your right hand, remove the blade screw and the outer clamps washer with your left hand. Now remove the blade. See fig. #6.
- 7) Leave the inner clamp washer on the spindle.

Note: The inner clamp washer has center hole with two flat sides on it to fit on the spindle. The flat side of the washer must face the blade. See fig. #6.

- 8) Make sure that the inner clamp washer is on the spindle with the flat side facing out; seat the new blade on the inner clamp washer so that the teeth at the bottom edge of the blade are pointing to the back of the saw. See fig. #6.
- 9) Seat the outer clamp washer on the spindle with the flat side facing the blade. See fig. #6.
- 10) Start and hand tighten the blade screw counter clockwise on the spindle.
- 11) Depress the spindle lock button and using the wrench tightens the blade screw securely.
- 12) Reposition the guard bracket, making sure it is fully seated on the guard screw and tighten screw firmly using the flat blade screwdriver. Failure to do so will cause serious damage to the saw.
- 13) Saw Blades - Always use saw blades with 1" arbor holes with speed rating of at least 4,800 R.P.M. Do not use abrasive wheels as they will damage the saw.

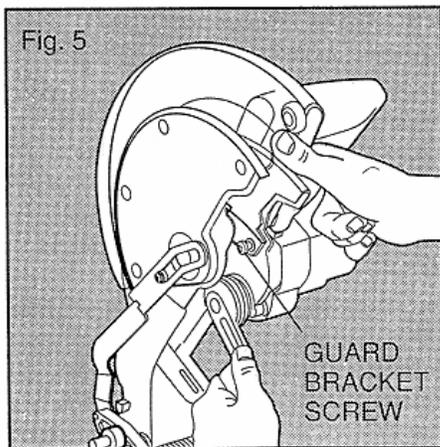


Figure 5 - grph151

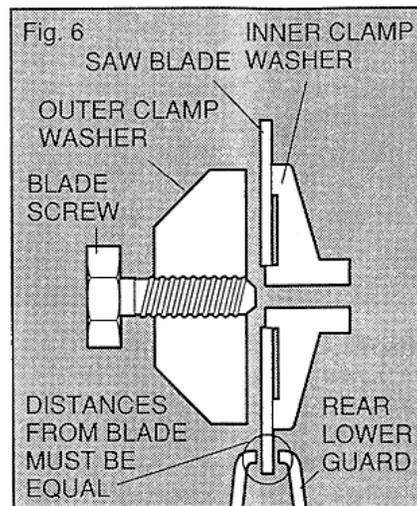


Figure 6 - grph151

C. OPERATING THE SAW

- 1) Always tighten adjustment knobs before using the saw.
- 2) Check the blade before operating to make sure it is in a safe condition and that it has been installed properly, as per "changing the blade" procedures.
- 3) Examine figures two and three to become familiar with the saw and its parts. (Bevel option parts not included on saw.)

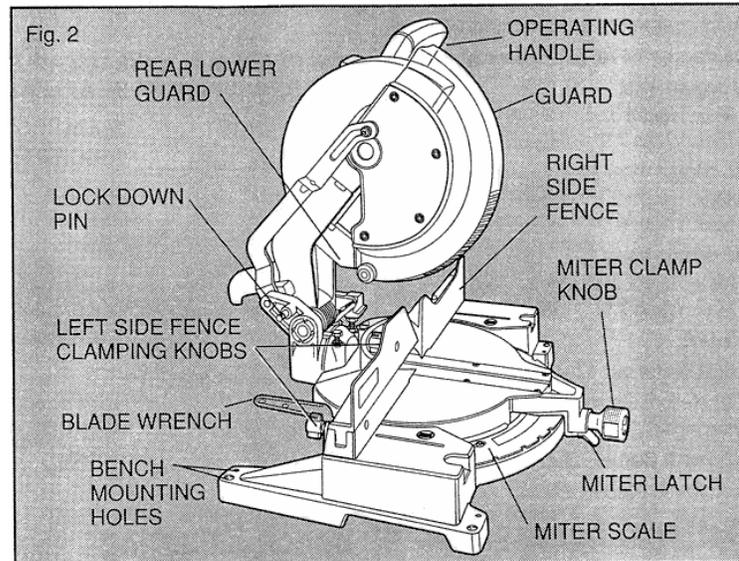


Figure 2 - grph152

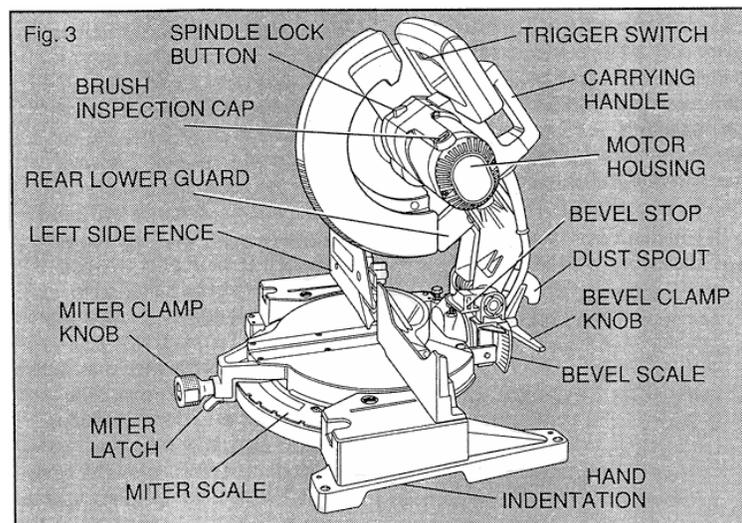


Figure 3 - grph153

- 4) Push down lightly on the operating handle and pull out the “Lock down Pin”. Gently release pressure to allow the saw to rise to its full height. Move the saw arm down and up a few times to get the “feel” of the saw before starting it.
- 5) Make sure that both the left and the right fences are in place before starting the saw. Never cut anything “freehand”.
- 6) Make sure that the Miter clamp knob is tightened before starting your saw.
- 7) Never place hand near the cutting area. Place hands no closer than 6” from the blade. See fig. #16.
- 8) Always use a clamp to clamp work piece to the saw if the size of the work piece would require your hand to be within 6” of the blade.

- 9) When using a clamp always clamp to the flat part of the fence. You can use the fence on either side of the blade.
- 10) When cutting long pieces have the ends of your work piece supported.
- 11) Never operate the saw with your arms crossed. See fig. #16.

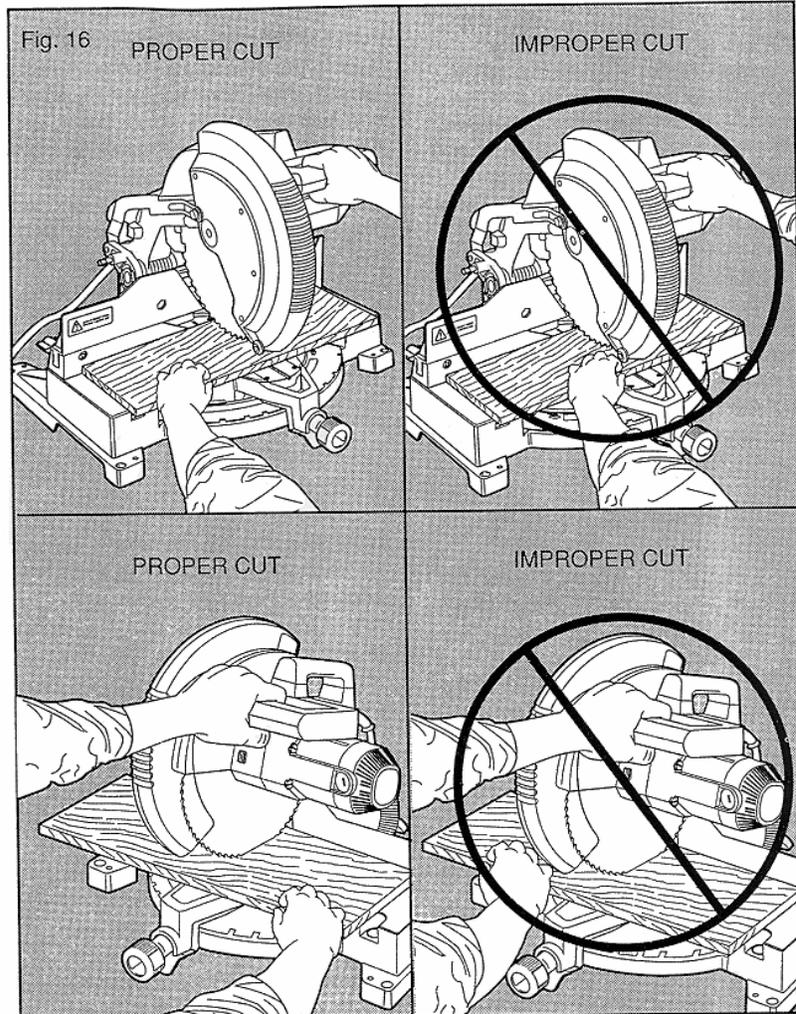


Figure 15 - grph154

- 12) Never reach around or behind the saw blade.
- 13) Never reach underneath the saw unless it is turned off and unplugged. The saw blade is exposed on the underside of the saw.
- 14) Never move either hand from the saw or work piece until the blade has stopped.
- 15) Never raise the saw arm until the blade has stopped.
- 16) Never tie, tape or otherwise hold the guard open when operating the saw.
- 17) Never tape, tie, clamp or otherwise fasten the on-off trigger in the on position.

- 18) Never use the saw without the Kerf Plate or when the kerf slot is wider than 3/8".
- 19) Keep the saw blades sharp and set at all times.
- 20) Keep motor air slots free of wood chips, dirt, etc...
- 21) Never use forcing action when cutting. Stalling or partial stalling of motor can cause major damage. Allow motor to reach full speed before cutting.
- 22) Never raise the blade guard manually unless the saw is turned off.
- 23) The automatic electric brake must stop the saw blade within five seconds of the trigger release. If the blade does not stop within five seconds, have the brake repaired immediately. (Contact your Supervisor about it.)
- 24) When cutting "bowed" material, always have the convex side of the material facing the fence. See fig. #30 and #31.

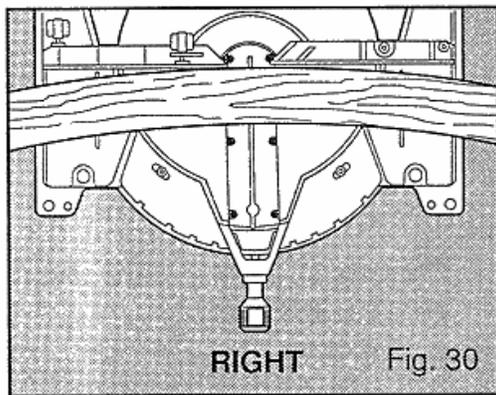


Figure 1 - grph155

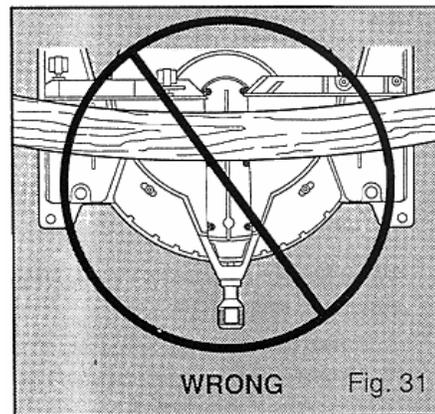


Figure 31 - grph156

- 25) The saw must be plugged into a properly grounded electrical outlet and any extension cords being used must have three wires and three prong grounding plugs.
- 26) The saw must be firmly and securely mounted on a table or stand.
- 27) When cutting plastic pipe, clamp or hold the pipe firmly to the fence to keep it from rotating.
- 28) Keep the saw table and area relatively clean during operation and clean thoroughly after use.
- 29) Never depress the spindle lock button while the blade is rotating.
- 30) If you notice that the saw needs repairing or is in an unsafe condition lock out the trigger and contact your Supervisor immediately.