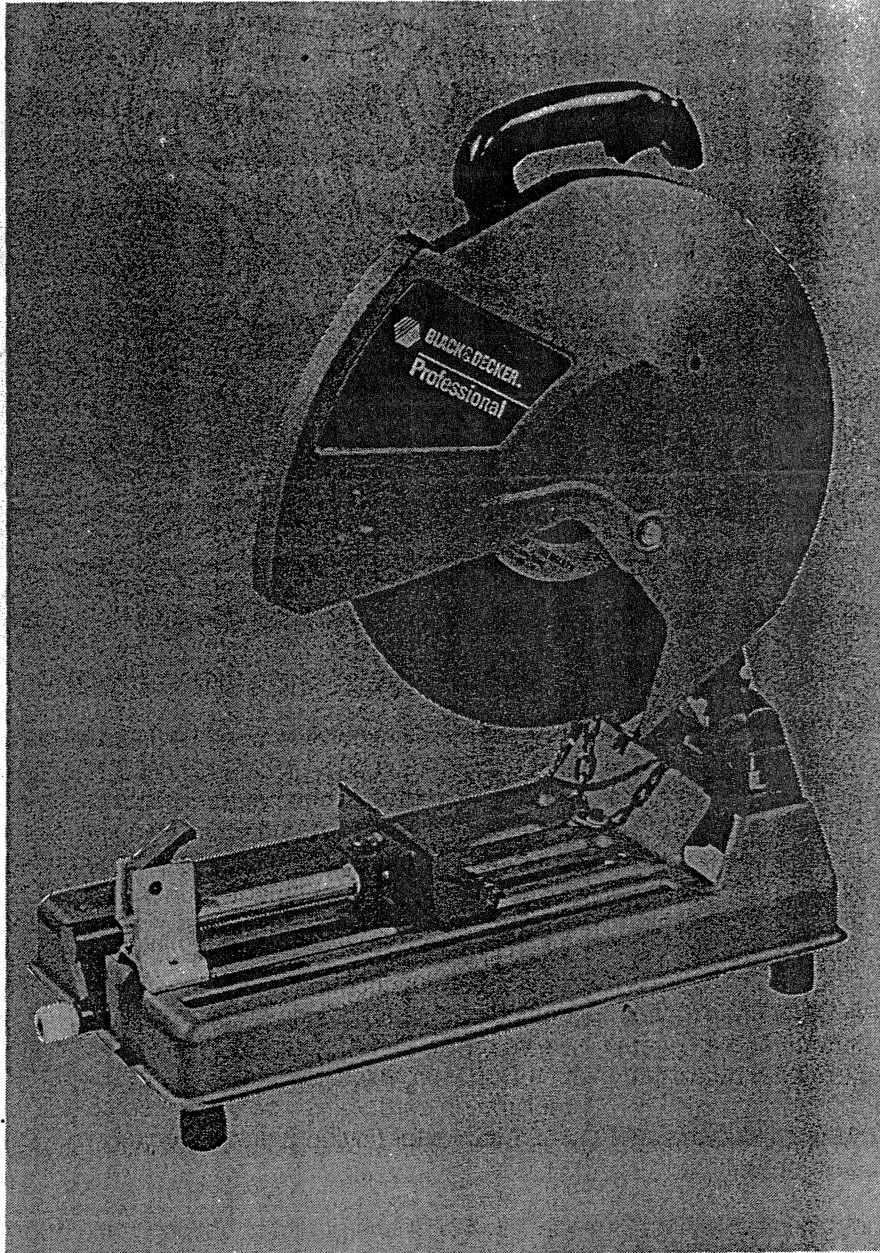


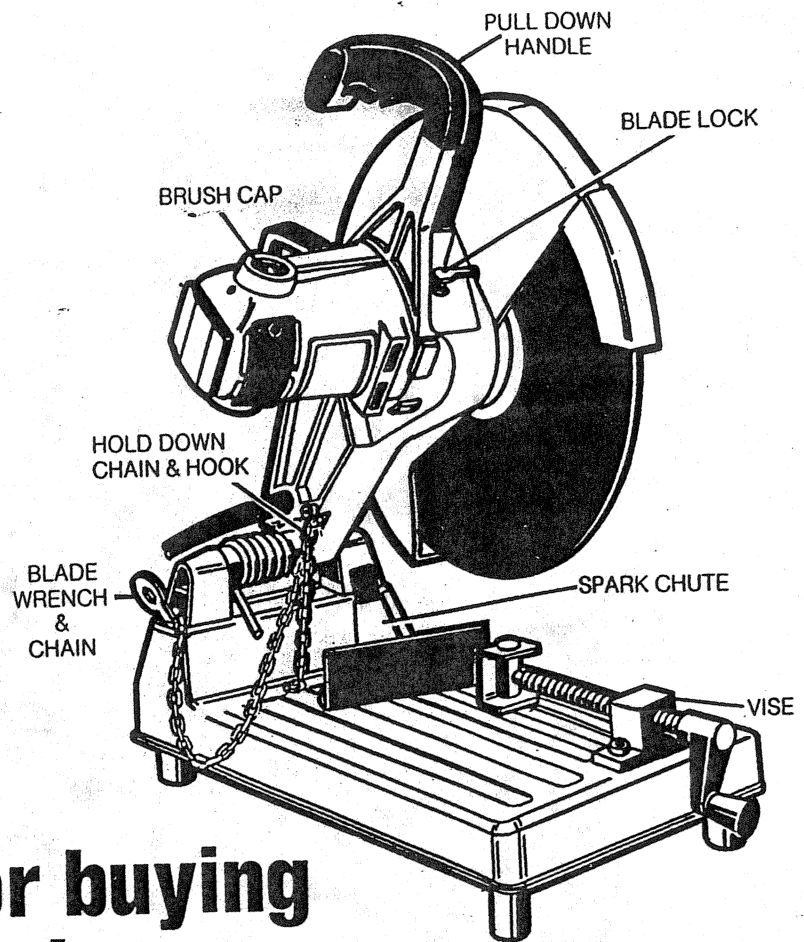


BLACK&DECKER™



Instruction Manual

Heavy Duty Chop Saw



Thank you for buying a Black & Decker Power Tool.

If you already own a Black & Decker Product, you know the pleasures a high quality, high performance product can deliver.

Your new Heavy Duty Chop Saw is engineered and built to meet the severe requirements of professional heavy-duty cutting.

It's a top-quality, high performance tool, with all the modern operating

features that you need to get your cutting jobs completed in minimum time.

Take a few minutes and thoroughly read this instruction manual. Pay particular attention to the safety rules we've provided for your protection.

Don't forget to send in the owner's registration card.

Thanks for buying Black & Decker.



BLACK & DECKER™

Important Safety Instructions

WARNING: When using Electric Tools, basic safety precautions should always be followed to reduce risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS

1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit.
3. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
4. **KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Do not let visitors contact tool or extension cord.
5. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place—out of reach of children.
6. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
7. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended, for example, don't use circular saw for cutting tree limbs or logs.
8. **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
9. **USE SAFETY GLASSES.** Also use face or dustmask if cutting operation is dusty.
10. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
11. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
12. **DON'T OVERREACH.** Keep proper footing and balance at all times.
13. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safe performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
14. **DISCONNECT TOOLS.** When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
15. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
16. **AVOID UNINTENTIONAL STARTING.** Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
17. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
18. **STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by Authorized Service Center. Do not use tool if switch does not turn it on and off.
20. **DO NOT OPERATE** portable electric tools near flammable liquids or in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

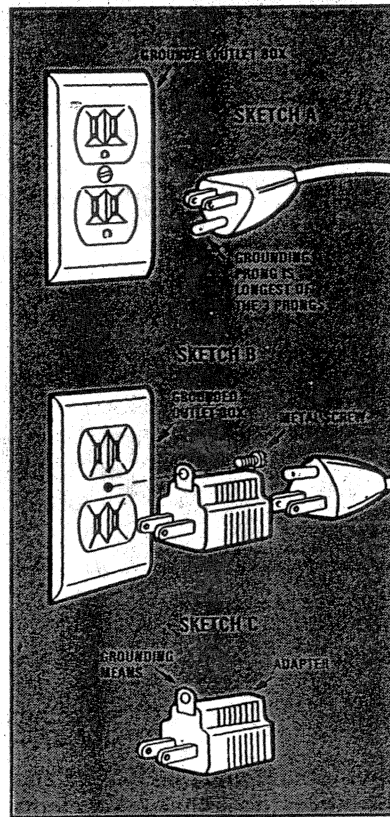
SAVE THESE INSTRUCTIONS FOR FUTURE USE.

Safety Rules For Chop Saws

1. Always wear safety goggles or other eye protection when using this tool.
2. Always keep hands away from rotating wheel during and after the cut.
3. Do not remove or loosen chain. Check that the chain is always tightly secured to the base and arm.
4. Before using, inspect each cutting wheel for cracks or flaws. If such a crack or flaw is evident—discard the wheel! The wheel should also be inspected whenever you think the tool may have been dropped.
5. When starting the tool (with a new or replacement wheel installed) hold the tool in a well protected area. If the wheel has an undetected crack or flaw, it should burst in less than one minute. Never start the tool with a person in line with the wheel. This includes the operator.
6. In operation, avoid bouncing the wheel or giving it rough treatment. If this occurs, stop the tool and inspect the wheel.
7. Clean your Chop Saw periodically following the procedure in the maintenance section.
8. Do not remove wheel guard.
9. Use the Vise to clamp work.
10. Use only wheels rated at 4100 rpm or higher.
11. Allow cut off parts to cool before handling.
12. Do not attempt to cut wood, masonry or magnesium with this tool.
13. Recommended accessories for this tool are listed in this manual and in BLACK & DECKER catalogs. The use of any other accessory may be hazardous. Never use toothed saw blades of any kind.

Grounding

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type receptacle. The green (or green and yellow) conductor in the



cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. Your unit has a plug like that shown in Figure A. An adapter, Figures B and C, is available for connecting Figure A plugs to two-prong receptacles. The green-colored rigid ear, lug, etc., must be connected to a permanent ground such as a properly grounded outlet box. Adapter shown in Figures B & C is not for use in Canada.

We recommend that you NEVER disassemble the tool or try to do any rewiring in the electrical system. Any such repairs should be performed only by B&D Service Centers or other qualified service organizations. Should you be determined to make a repair yourself, remember that the green colored wire is the "grounding" wire. Never connect this green wire to a "live" terminal. If you replace the plug on the power cord, be sure to connect the green wire only to the grounding (longest) prong on a 3-prong plug.

If you use an extension cord, be sure that it is a 3-conductor, grounding type cord. Grounding must be continuous from the tool plug to the grounded receptacle.

SPARK DEFLECTOR

ABRASIVE WHEEL

WISE

WISE STOP

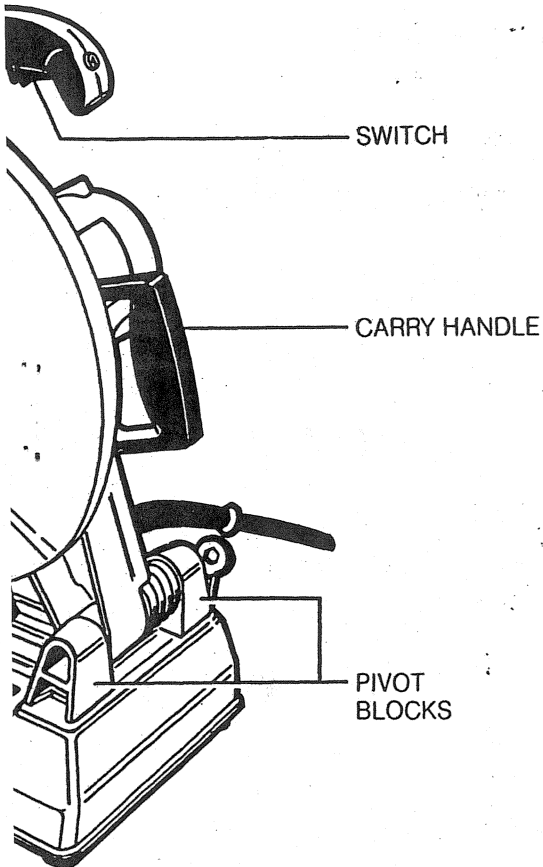
SAVE THESE INSTRUCTIONS

Motor

Your tool is powered by a Black & Decker built motor. Be sure your power supply agrees with the nameplate marking. VOLTS 50/60 Hz means Alternating Current ONLY. VOLTS DC-60 Hz means it will also operate on Direct Current. Voltage decrease of more than 10% will cause loss of power and over-heating. All B&D tools are factory-tested; if this tool does not operate, check the power supply.

Switch

To start the tool, depress the trigger switch shown in Figure 1. To turn the tool off, release the switch.



Features and Benefits

- Extra cutting capacity enables you to cut most standard bundles of drywall studs in a single pass.
- AC/DC permits use with a DC power source such as a welder.
- Chopping handle is human engineered for maximum convenience when the saw is used on a bench, or on the floor.
- Lightweight, separate sure-grip carrying handle, and fold-down design combine to make it easy to carry the machine from job to job.
- Rugged steel base with rubber padded feet provide durability and vibration-free operation for stable cutting.
- Pivoting fence for convenience and accuracy in making miter cuts. Left position graduations for 0°, 15°, 30° and 45°. Right position graduations for 0°, 15° and 30°.
- Blade spindle lock simplifies and speeds blade changing.
- Blade wrench is permanently attached to machine to prevent loss.

- Exclusive quick-locking vise speeds up work through fast, easy clamping.
- Tough steel wheel guard protects operator from the wheel, spark guard in base minimizes escaping sparks and protects surroundings.
- Large split brush system extends brush life. Checkpoint™ brush system stops tool when brushes wear out, prevents damage to commutator.
- All-plastic brush cap and o-ring seal reduce potential of electrical tracking; are externally accessible for rapid brush changes.
- Advanced design, Black & Decker built motor (3-1/3 HP maximum output) is more powerful for longer life under continuous loads, provides greater protection against overload.
- High efficiency cooling fan and improved housing design assure high airflow for cooler operation and long life.
- 8' rubber power supply cord with separable cord protector is convenient and simplifies servicing.
- 100% ball and roller bearing construction for longer tool life.

Standard Equipment

QUANTITY	DESCRIPTION
1	40278 METAL CUTTING (ALUMINUM OXIDE) MAX. RPM 4100*

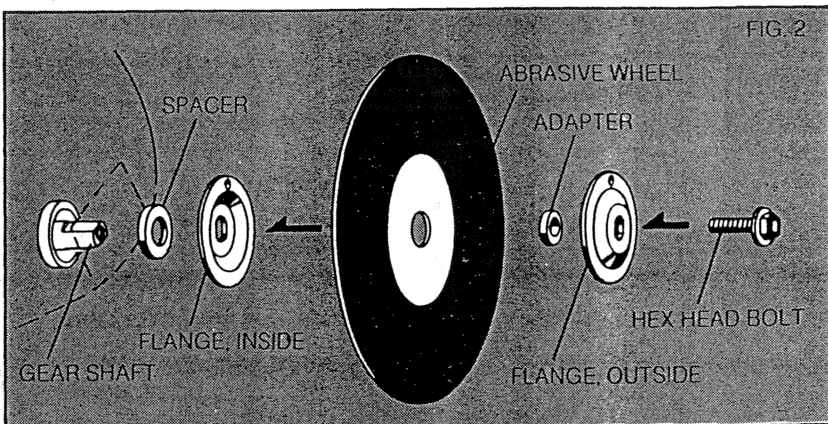
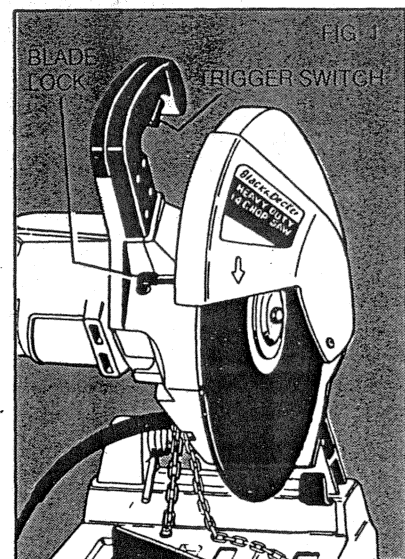
*Use high strength organic bonded wheels only.

**Never use toothed saw blades of any kind.

Removal and Installation of Wheels

1. Be sure tool is disconnected from power supply.
2. Push in blade lock (Fig. 1) and loosen the hex head bolt in the center of the abrasive wheel with the wrench provided.
3. Remove the bolt, outside flange and wheel. (Fig. 2)
4. Install the new abrasive wheel by reversing the above steps.
5. Do not over tighten bolts.

WARNING: Check the work surface that the chop saw rests on when replacing with a new abrasive wheel. It is possible that the wheel may contact the work surface when the arm is fully lowered.



DO NOT MAKE ANY ADJUSTMENT WHILE WHEEL IS IN MOTION.

To Adjust Vise Stop

CUTTING ANGLE

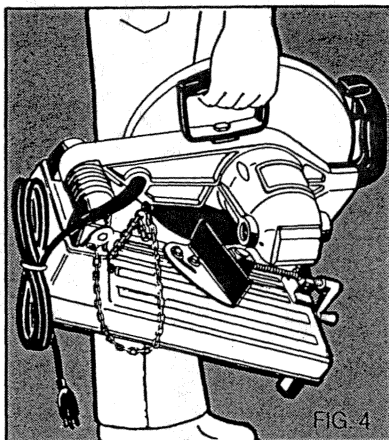
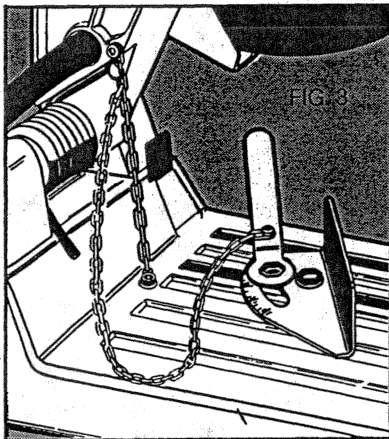
Use the wrench to loosen the hex bolts (Fig. 3) (Do not remove). The Vise Stop can be rotated in either direction. Securely tighten the bolts before use.

OPENING ADJUSTMENT

Loosen bolts (do not remove) and move Stop forward or backward to desired location. Securely tighten before use.

TO CARRY

Fold down unit to position where you can attach chain to hook on tool arm. (Fig. 4)



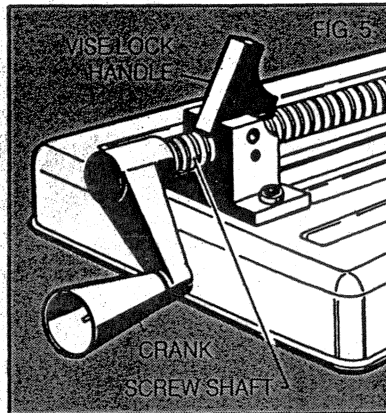
Quick Lock Vise (Fig. 5)

LOCKING:

Push shaft forward and turn crank clockwise.

RELEASE:

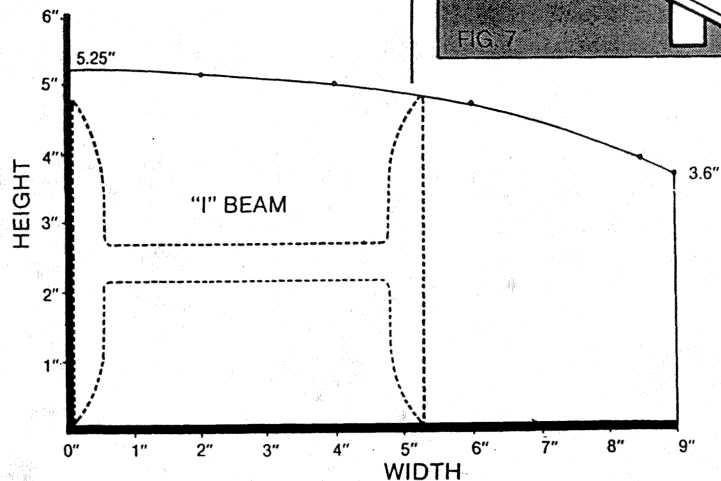
Turn crank to loosen. Lift Vise lock handle. Pull screw shaft back.



Cutting Capacity

The wide vise opening and high pivot point provide cutting capacity for many large pieces. Use this chart to determine total maximum size of cuts that can be made with a new wheel.

NOTE: CAPACITY SHOWN ON CHART BELOW ASSUMES NO WHEEL WEAR.



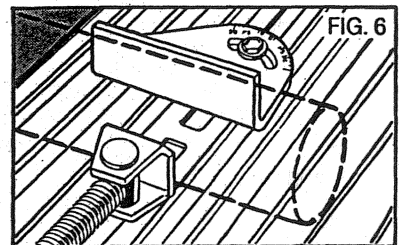
Note that as cutting width increases, cutting height decreases.

CAUTION: CERTAIN LARGE OBJECTS MAY REQUIRE ADDITIONAL HOLDING MEANS.

Maximum Cutting Depth

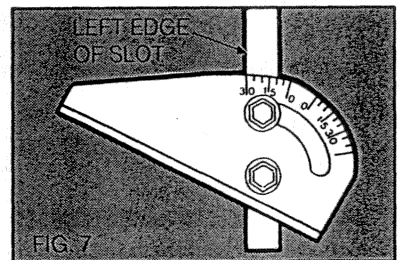
To obtain maximum cutting depth, move the vise stop until the material being cut is centered over the web separating the two slots on the base. (See Fig. 6.)

NOTE: A new wheel, when pushed all the way down, will extend below the base and cut into the work surface.



Degree Setting

Align the edge of the slot in the base with the appropriate degree for the desired angle of cut. (See Fig. 7.) For very accurate cuts, use a protractor.



CAUTION: DO NOT CUT MAGNESIUM WITH THIS TOOL.

Maintenance of Tool

Lubrication

Except for the needle roller bearings used at the upper end of the spindle, closed-type, grease-sealed ball bearings are used throughout. These bearings have sufficient lubrication packed in them at the factory to last the life of the bearing. The needle bearings mentioned above receive their lubrication from the grease in the gear case.

Gears should be relubricated every 60 to 90 days, depending upon use. This lubrication should only be attempted by experienced power tool repairmen like the mechanics at B&D Service Centers (see "TOOLS, ELECTRIC in Yellow Pages). The gear case will be wiped clean and 2 oz. of B&D Lubricant (Cat. No. 60541 — 1 lb. can) will be placed in the gear case.

Cleaning

Blowing dust and grit out of the main housing by means of an air hose is recommended and may be done as often as dirt is seen collecting in and around the ventilator vents.

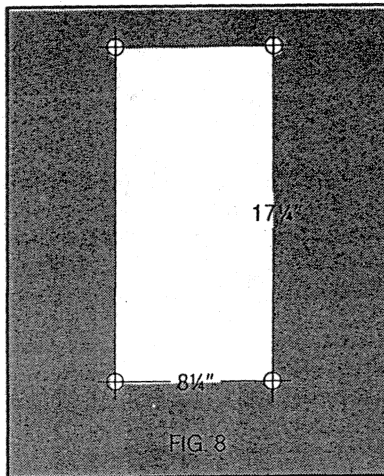
Motor Brushes

Be sure tool is unplugged before inspecting brushes. Carbon Brushes should be regularly inspected for wear. To inspect brushes, unscrew the plastic brush inspection caps (located in the sides of the motor housing) and the spring and brush assemblies may be withdrawn from the tool.

Keep brushes clean and sliding freely in their guides. Carbon brushes have varying symbols stamped into them, and if the brush is worn down to the line closest to the spring, they must be replaced. New brush assemblies are available at Service Centers; see TOOLS, ELECTRIC in the Yellow Pages.

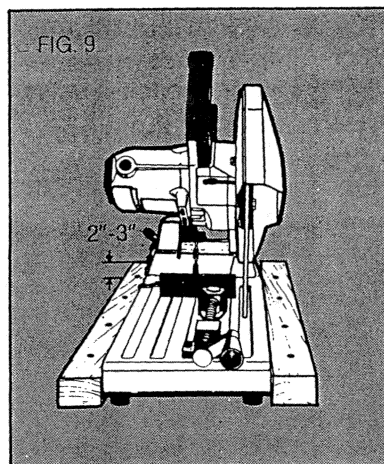
Procedure For Permanent Mounting

1. Drill four holes, 3/16" diameter minimum, through the work surface. (Fig. 8)
2. Remove screws from feet.
3. Insert 10-32 screws through underside of work surface, through feet, into holes in tool base. The proper screw length is equal to the thickness of the work surface plus 2 inches. (example: 1-1/4" thick table, takes a 10-32 x 3-1/4 screw.)



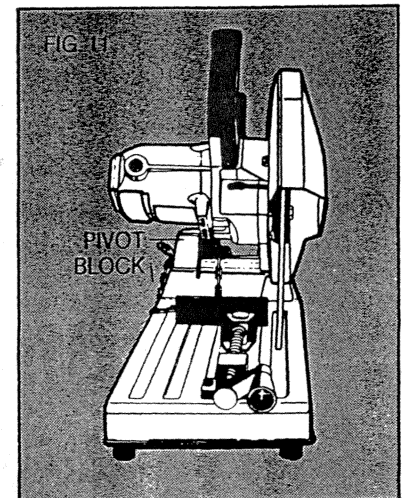
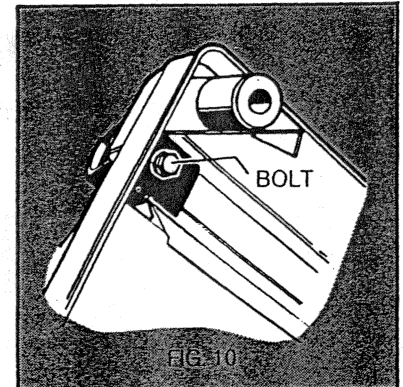
Cradle Mounting

1. Cut two boards 20" long x 2" - 3" high x 4" wide.
2. Place Chop Saw at desired work location.
3. Place boards tightly along side, and nail to work surface. (Fig. 9)



Wheel Alignment Procedure

1. Disconnect cord.
2. Fold down unit to position where you can attach chain to hook on tool arm. Tilt unit onto its side and loosen bolts under pivot blocks two full turns. Bolts are located under base. (Fig. 10)
3. Center cutting wheel to slot in base by pushing pivot blocks and arm in the desired direction to align wheel. (Fig. 11)
4. With wheel aligned make certain that both pivot blocks are tight against the arm.
5. Tighten bolts securely.
6. Re-check wheel alignment and readjust if necessary.



Extension Cords

Tools that have 3 wire cords requiring grounding must only be used with extension cords that have 3-prong grounding type plugs and 3-pole receptacles. Only round jacketed extension cords should be used, and we recommend that they be listed by Underwriters Laboratories (U.L.) (C.S.A. in Canada). If the extension will be used outside, the cord must be suitable for outdoor use. Any cord marked as outdoor can also be used for indoor work.

An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety, and to prevent loss of power and overheating. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size.

To determine the minimum wire size required, refer to the chart below:

NAMEPLATE RATING-AMPS	CHART FOR MINIMUM WIRE SIZE (AWG) OF EXTENSION CORDS							
	25	50	75	100	125	150	175	200
0 - 10.0	18	18	16	16	14	14	12	12
10.1 - 13.0	16	16	14	14	14	12	12	12
13.1 - 15.0	14	14	12	12	12	12	12	—

Before using an extension cord, inspect it for loose or exposed wires, damaged insulation, and defective fittings. Make any needed repairs or replace the cord if necessary. Black & Decker has extension cords available that are U.L. (C.S.A. in Canada) listed for outdoor use.

Caution

To assure product SAFETY and RELIABILITY, repairs, maintenance (excluding brush inspection and replacement) and adjustment should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using BLACK & DECKER replacement parts.

Warranty

Black & Decker (U.S.) Inc. warrants this product for one year from date of purchase. We will repair without charge, any defects due to faulty material or workmanship. Please return the complete unit, transportation prepaid, to any Black & Decker Service Center or Authorized Service Station listed under "Tools Electric" in the yellow pages. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others.

Like most Black & Decker products your tool is listed by Underwriters Laboratories to ensure that it meets stringent safety requirements.



See 'Tools-Electric'
—Yellow Pages—
for Service & Sales



BLACK & DECKER

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