# **Bayonet Saw**

Instruction manual



# **IMPORTANT**

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.

PROFESSIONAL POWER TOOLS

The Model and main housing of the spaces belo	f the tool. Re	cord the	se numl	bers in
Model No		· ·		

Serial No. \_\_\_

Part No. 692459-4810

# SAFETY INSTRUCTIONS

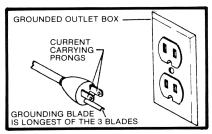
#### **GROUNDING INSTRUCTIONS**

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 plug to fit the proper 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.

If your unit is for use on less than 150 Volts, the power cord is equipped with a plug that has two flat, parallel current-carrying prongs and one longer, round or "U"-shaped, ground prong which requires a mating 3-conductor grounded type receptacle, as shown in Fig. 1.

An adapter, shown in Fig. 2, is available for connecting 3-prong grounding type plugs that are used on units less than 150 Volts to 2-prong receptacles. THIS ADAPTER IS NOT ALLOWED IN CANADA. The green colored rigid ear, lug, etc., must be connected to a permanent ground such as a properly grounded outlet box, as shown in Fig. 2.

If your unit is for use on 150 to 250 Volts, the power cord is equipped with a plug that has two flat current-carrying prongs in tandem, and one round or "U" - shaped, longer ground prong, as shown in Fig. 3. This plug is used only with the proper mating 3-conductor grounding type receptacle, as shown in Fig. 3. No adapter is available for this type plug.



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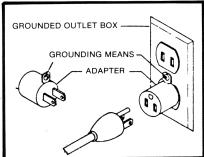


Fig. 2

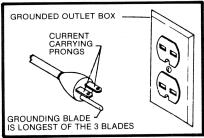


Fig. 3

IN ALL CASES, MAKE SURE THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED.

NEVER REMOVE GROUNDING BLADE FROM POWER PLUG

# **EXTENSION CORDS**

Use only three-wire extension cords which have three prong grounding-type plugs and three-pole receptacle which accept the tool's plug. Replace or repair damaged or worn cord immediately.

# IMPORTANT SAFETY INSTRUCTIONS

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

#### READ AND FOLLOW ALL INSTRUCTIONS.

There are certain applications for which this tool was designed. Porter-Cable strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Porter-Cable and we have advised you.

Manager of Product Engineering Porter-Cable Corporation Youngs Crossing at Highway 45 P.O. Box 2468 Jackson, Tn 38302-2468

- 1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.
- 2. AVOID DANGEROUS ENVIRONMENT. Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep area well lit. Avoid chemical or corrosive environment. Do not use tool in presence of flammable liquids or gases.
- **3. GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
- **4. KEEP CHILDREN AWAY.** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
- 5. STORE IDLE TOOLS. When not in use, tools should be stored in dry and high or locked-up place out of the 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—do not use a circular saw for cutting tree limbs or logs.
- **8. DRESS PROPERLY.** Do not wear loose clothing or jewelry. Loose clothing, draw strings and jewelry can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working. Wear protective hair covering to contain long hair.
- **9. USE SAFETY GLASSES.** Wear safety glasses or goggles while operating power tools. Also face or dust mask if operation creates dust. All persons in the area where power tools are being operated should also wear safety glasses and face or dust mask.
- 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. Have damaged or worn power cord and strain reliever replaced immediately.

- 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 safer 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. Have all worn, broken or lost parts replaced immediately. 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, etc.
- 15. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from the 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 marked "Suitable for use with outdoor appliances store indoors when not in use."
- **18. STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired or while under the influence of medication, alcohol or drugs.
- 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.

SAVE THESE INSTRUCTIONS

# ADDITIONAL SAFETY RULES FOR PORTABLE BAYONET SAWS

- 1. KEEP BLADES SHARP.
- 2. **KEEP HANDS AWAY FROM CUTTING AREA.** When sawing never reach underneath or behind the material being cut for any reason.
- 3. WHEN YOU HAVE FINISHED A CUT be careful not to come into contact with the blade. Turn off the motor immediately.

4. **WARNING:** EXERCISE EXTREME CAUTION WHEN BLIND CUTTING TO BE CERTAIN THAT THERE ARE NO FOREIGN OBJECTS SUCH AS ELECTRICAL WIRE, CONDUIT, PLUMBING PIPES, ETC., THAT MAY COME INTO CONTACT WITH THE BLADE.

#### REPLACEMENT PARTS

When servicing use only identical replacement parts.

#### **MOTOR**

Most Porter-Cable tools will operate on either D.C., or single phase 25 to 60 cycle A.C. current and voltage within plus or minus 5 percent of that shown on the specification plate on the tool. Several models, however, are designed for A.C. current only. Refer to the specification plate on your tool for proper voltage and current rating.

**CAUTION:** Do not operate your tool on a current on which the voltage is not within correct limits. Do not operate tools rated A.C. only on D.C. current. To do so may seriously damage the tool.

#### **EXTENSION CORD SELECTION**

If an extension cord is used, make sure the conductor size is large enough to prevent excessive voltage drop which will cause loss of power and possible motor damage. A table of recommended extension cord sizes will be found below. This table is based on limiting line voltage drop to 5 volts (10 volts for 230 volts) at 150% of rated amperes.

If an extension cord is to be used outdoors it must be marked with the suffix W-A following the cord type designation. For example — SJTW-A to indicate it is acceptable for outdoor use.

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH PORTABLE ELECTRIC TOOLS

				Leng	th of Cor	d in Feet				
	115V	25 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
	230V	50 Ft.	100 Ft.	200 Ft.	300 Ft.	400 Ft.	500 Ft.	600 Ft.	800 Ft.	1000 Ft.
	0-2	18	18	18	16	16	14	14	12	12
6	2-3	18	18	16	14	14	12	12	10	10
Rating	3-4	18	18	16	14	12	12	10	10	8
	4-5	18	18	14	12	12	10	10	8	8
ere	5-6	18	16	14	12	10	10	8	8	6
Ampere	6-8	18	16	12	10	10	8	6	6	6
1 -	8-10	18	14	12	10	8	- 8	6	6	4
Nameplate	10-12	16	14	10	8	8	6	6	4	4
de	12-14	16	12	10	8	6	6	6	4	2
ar	14-16	16	12	10	8	6	6	4	4	2
12	16-18	14	12	8	8	6	4	4	2	2
	18-20	14	12	8	6	6	4	4	2	2

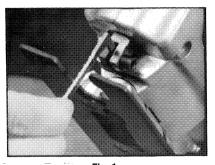
# **OPERATING INSTRUCTIONS**

# **FOREWORD**

This Bayonet Saw is designed for cutting material of the following thickness: Wood 2½", Aluminum ¾", Steel ¼".

# **SELECTING THE BLADE**

To obtain the best results with your Porter-Cable bayonet saw, it is important that you use the right blade for the job. You will not only get better performance, but your blades will last longer and a smoother cut will result. A wide assortment of Porter-Cable blades is listed in the back of this manual. It is strongly recommended that you obtain a full assortment so you will always have the correct blade at hand for any job you might choose to do.



# INSTALLING THE BLADE Fig. 1

**CAUTION:** Disconnect saw from power source.

Insert the blade squarely into the blade holder and over the blade screw, see Fig. 1. Use a standard flat screwdriver and apply only enough torque to firmly lock the blade. NOTE: To avoid pinching and breakage of the blade, make sure the shoulder on the blade screw is slightly below face of the nut before installing the blade.

The blade screw and nut lock the blade in the holder. Note that the recess in the blade nut must face screw head.

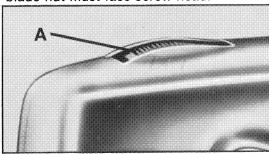


Fig. 2

#### ON - OFF SWITCH

Your bayonet saw has a slide type switch with actuating bar located in the top of the handle, as shown in (A) Fig. 2, you will note that the words "ON" and "OFF" appear at opposite ends of the switch plate. To start the saw, push the switch bar in that direction necessary to cover the word "OFF" leaving the word "ON" in view. To stop the saw, push the switch bar in the opposite direction so "OFF" is in view.

**CAUTION:** Always make sure the tool is "OFF" before inserting the cord plug in the power circuit outlet. Always stop the saw as soon as a cut has been completed.

#### STARTING TO WORK

First, secure the material in a bench vise or with clamps to the work table. This is especially important when sawing small pieces or thin material. As the work progresses in scroll or curved cut-out pieces, the material can be readjusted to accommodate the movement of the saw. If the work is large enough it can be held by hand across saw horses. The saw cuts freely with only light forward feed pressure on the tool. Forcing the saw will not make it cut faster.

To start the cut, secure the work, mark the line of cut clearly, place the forward edge of the saw base firmly on the edge of the material, start the motor and move the blade into the work. Notice how rapidly and easily it cuts.

DO NOT FORCE, LET THE SAW DO THE WORK. Move the machine forward only rapidly enough to keep the blade cutting.

You will find that the open throat and clear forward edge of the saw base make it easy to follow the line and cut closely to the pattern. You need not cut oversize for hand finishing or sanding on most materials. The smoothness of cut will often make further sanding unnecessary. It is not necessary to turn the good or finish side of the material down when the base insert is used as would be the practice with ordinary jig saws. The small teeth and the speed of the saw in conjunction with the base insert will prevent splitting or chipping of the top surface.

#### **BASE INSERT**

Two base inserts, like the one shown in Fig. 3, are available to reduce splintering top fibers of plywood. One insert #48366 has a short center slot for use with blades 12312, 12318, and 12371. The other insert #48367 has a long center slot for use with 12306, 12360, and 12366 blades. DO NOT USE BASE INSERTS WITH ANY OTHER BLADES THAN THOSE LISTED. TO DO SO, MAY RESULT IN BLADE BREAKAGE OR DAMAGE TO THE SAW.



Fig. 3

#### PLUNGE CUTTING

One of the distinctive and important features of the Porter-Cable bayonet saw is the ability to start the cut (in wood only) within an area without making drilled holes first. This feature is especially important when making cut-outs for electric outlets in finished walls, openings in cabinet tops for sinks, panels for doors, and wall or floor openings for plumbing fixtures, etc. Such cuts can be made neatly and quickly with this saw.

First, measure the area to be cut out and mark it clearly with a pencil, chalk or scriber. Choose a convenient starting point and hold the bayonet saw over that point and inside the line of waste. Tip the machine forward until the front edge of the base rests firmly on the

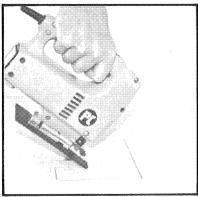


Fig. 4

surface of the material with the top of the throat clear of the work surface, as shown in Fig. 4. As the blade reaches full speed, lower the back of the machine and the blade will bite smoothly into the surface and down to its full depth. Do not move the machine forward until the base is fully seated on the surface of the work. Now, guide the cutting along the inside of the marked area. If sharp corners are desired, cut right up to the corner of the marked edge. Stop and back up just a bit, start the turn and cut along the side. Do the same at each corner until you end up where you started. Then, go back and cut into each corner from the opposite direction. The base of the machine is wide enough so you will have a solid guiding surface on either side of the cut. You do not have to worry about cutting the support out from under the machine.

# **CUTTING CLOSE TO AN UPRIGHT**

**CAUTION:** Disconnect saw from power source.

If it is desired to cut close to an upright surface, use a standard flat screwdriver to loosen the screw which is accessible thru a hole in the base. Push the base towards the rear of the saw as far as it will go and firmly tighten the screw.



Fig. 5

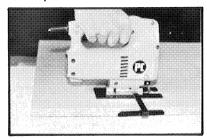
#### **BEVEL CUTTING**

Since your saw has an adjustable base, you can make bevel cuts between 0 degrees and 45 degrees to either side of the center. When the top (0) line on the trunnion index plate, Fig. 5, is adjacent to the housing, the saw is set for regular right angle (no bevel) cutting. When the first short line down is adjacent to the housing, the saw is set for a 5 degree bevel cut. When the second short line down is adjacent to the housing, the saw is set for a 10 degree bevel cut. When

the next (first long) line down is adjacent to the housing, the saw is set for a 15 degree bevel cut, etc. To adjust the base, loosen screw, accessible thru a hole in the base, with a standard flat screwdriver. Now, push the base towards the rear of the saw as far as it will go, tilt it to desired bevel graduation line and tighten screw. The base insert and rip guide cannot be used when making bevel cuts.

#### **RIP CUTTING**

A rip guide, available as an accessory, is handy for making long, narrow rip cuts and small diameter circular cuts. After the guide has been installed - see TO ASSEMBLE RIP GUIDE TO SAW - it is set so the distance from the saw blade to the face of the guide bar is equal to the width of the material to be removed. Be sure to take into consideration the blade thickness so finished piece will not be too wide or too narrow. To make the cut, keep the guide bar against the edge of the work as shown in Fig. 6. Move the saw along the work only fast enough to keep the blade cutting. Do not force the cut. To make wide rip cuts, guide saw base along a straight edge which can be clamped or tacked to the work.



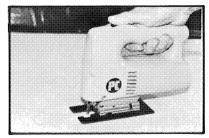
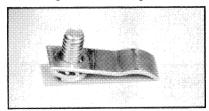


Fig. 6

Fig. 7

#### CIRCULAR CUTTING

To make circular cuts, install rip guide upside down (with guide bar up). Drive a finishing nail into the work at the center of the cut. Set rip guide so distance from blade to center of either of the holes in the guide bar is equal to the radius of the circular cut to be made. Tighten guide locking screw. Place hole in guide bar over the finishing nail. See Fig. 7.





TO ASSEMBLE RIP GUIDE TO SAW

Fig. 9

**CAUTION:** Disconnect saw from power source.

First, place the rip guide clip on the locking screw as shown in Fig. 8. Now install the screw in the tapped hole in the bottom of the trunnion. The tapped hole is accessible thru a hole in the saw base. Do not tighten screw. Next, insert the rip guide body in the slot in the

trunnion (A) Fig. 9, and between the clip and the trunnion. Set the guide for the desired width of cut and firmly tighten the locking screw.

# **MAINTENANCE**

#### **KEEP TOOL CLEAN**

Periodically blow out all air passages with compressed air. Remove build up of grime resulting from working green or sappy wood. All plastic parts should be cleaned with soft cloths. NEVER use solvents when cleaning plastic parts.

CAUTION: Wear safety glasses when using compressed air.

# **FAILURE TO START**

Should your tool fail to start, check to make sure the prongs on the cord plug are making good contact in the outlet. Also, check for blown fuses or open circuit breakers in the line.

#### LUBRICATION

Your machine is lubricated at the factory with sufficient lubricant to last for approximately one year's operation time. To add lubricant it is necessary to dismantle the tool. This operation should always be handled by the nearest Porter-Cable Authorized Service Center. All repairs and servicing made by these centers are fully guaranteed against defective materials and workmanship.

# **BRUSH INSPECTION**

At approximately 100 hours of use, take or send your tool to your nearest Authorized Porter-Cable Service Station to be thoroughly cleaned and inspected; worn parts replaced, when necessary; relubricated with fresh lubricant, if required; reassembled with new brushes; and performance tested.

Any loss of power before the above maintenance check may indicate the need for immediate servicing of your tool. DO NOT CONTINUE TO OPERATE TOOL UNDER THIS CONDITION. If proper operating voltage is present, return your tool to the Service Station for immediate service.

#### **SERVICE AND REPAIRS**

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. These operations, including brush inspection and replacement, should ONLY be performed by either an AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We can not guarantee repairs made or attempted by anyone other than these agencies.

Should you have any questions about your tool, feel free to write us at any time. In any communications, please give all information shown on the nameplate of your tool (model number, type, serial number, etc.).

# **ACCESSORIES**

The testing of this tool has been accomplished with the following accessories. For safest operation, it is recommended that only these accessories be used with this product.

**WARNING** - Since accessories other than those listed have not been tested with this product, use of such accessories could be hazardous.

#### PROFESSIONAL TYPE JIG SAW BLADES

				Cu	tting De	pth			-	
	Catalog Number	Qty. Per Pkg.	Replaces Number	(In:	ches) Us 548	348 (4380)	Blade Lgth. In.	Teeth Per In.	Blade Width In.	Recommended Use
OOD AND COMPOSI										
	12376-10 12376-1 12376-100	10 1 100	12376 New 12376B	-	21/8	2	3	10 Set	5.16	Fast Cutting Set Tooth—Wood
- T	12377-10 12377-100	10 100	12377 12377B	_	21/8	2	3	6 Set	5,16	Faster Cutting Shark Tooth
	12381-10 12381-100	10	12381 12381B	2%	3%	31/4	41/4	10 Set	1/2	Fast Cutting Set Tooth
	12382-10 12382-100	10 100	12382 12382B	2%	3%	31/4	41/4	6 Set	1/2	Faster Cutting Shark Tooth
<u></u>	12313-10	10	12313	2¾	3%	31/4	41/4	10 Taper	14	Scroll and General Smooth Cutting Soft and Hard Grain Woods—Plywood—Masonite
<u></u>	12372-10	10	12372	2%	3%	31/4	41/4	6. Taper	3/4	Fast Scroll and Rough Cutting-Soft and Hard Grain Woods
<u></u>	12361-10	10	12361	234	33/6	31/4	414	10 Taper	3/8	General Wood Cutting—Asphalt Tile—Fiber Paper—Plastic— Laminates—Lucite—Plexiglass
	12307-10	10	12307	21/4	3%	31/4	41/4	6 Taper	3/8	General Rough Cutting—Roof Rafters and General Frame Cutting—Plunge Cutting
<u></u>	12379-10	10	12379	2	2%	21/2	31/2	10 Taper	14	Smooth Scroll and Circular Cutting Masonite—Plywood— Soft and Hard Grain Trim Stock—Plastics
P	12380-10	10	12380	2	2%	21/2	31/2	6 Taper	1/4	Fast Scroll and Circular Cutting Solid Grain Wood— Masonite—Plastics
<b></b>	12366-10 12366-1 12366-100	10 1 100	12366 12369 12366B	2 Vs	234	2%	3%	10 Taper	3/8	General Straight and Large Curvature Cutting—Solid Grain Wood—Plywood—Masonite—Plastics— Soft Aluminum Extrusions
	12312-10 12312-1 12312-100	10 1 100	12312 12315 12312B	-	21/8	2	3	10 Taper	1/4	Smooth Scroll and Circular Cutting—Plywood, Straight Grain Wood, Masonite—Plastics—Plunge Cutting
P	12371-10 12371-1 12371-100	10 1 100	12371 12375 12371B	_	21/a	2	3	6 Taper	1/4	Fast Scroll and Circular Cutting—Plunge Cutting Straight Grain Woods—Hard Board
<u></u>	12360-10 12360-1 12360-100	10 1 100	12360 12363 12360B	1 1/2	21/8	2 .	3	10 Taper	3/6	General Wood Cutting, Fiber, Paper and Plastic Laminates, Plexiglass, Rubber Linoleum
<b></b>	12306-10 12306-1 12306-100	10 1 100	12306 12309 12306B	1 1/2	21/8	2	3	6 Taper	3/8	Rough Cutting Wood
<b></b>	12318-10 12318-1 12318-100	10 1 100	12318 12321 12318B	_	11/8	1	2	10 Taper	₹32	Smooth Finish Cutting of Straight, Curvature, Round Finish and Trim Materials and Plunge Cutting
	12348-10 12348-1	10 1	12348 12351	_	1 Va	1	2	-	\$ <sub>16</sub>	Cutting Cardboard—Cloth—Leather Rubber and Sponge Type Plastics
	12378	10		Assorte	d					WoodPlasticsMasoniteMetal
IIGH SPEED STEEL-							·			<u>,                                      </u>
<u>L.</u>	12301-10	10	12301	2¾	3%	31/4	41/4	6 Set	3/6	Cutting Fiberglass—Fiberglass Bonded to Plywood Sheet Rock—Asphalt Tile—Plastics—Plaster
Limina.	12300-1	10	12300 12303	_	15%	1 1/2	21/2	6 Set	3/8	Cutting Fiberglass—Fiberglass Bonded to Plywood Sheet Rock—Asphal: Tile—Plaster
_	12600-5 12600-100	5 100	12600 12600B	-	7/a	74	134	14 Set	1/4	Specially Coated to Withstand Abrasive Conditions Encountered in Cutting Fiberglass and Other Abrasive Materials
		5	12601	-	2 Va	2	3	14 Set	3/8	Specially Coated to Withstand Abrasive Conditions Encountered in Cutting Fiberglass and Other Abrasive
<u> </u>	12601-5 12601-1 12601-100	1 100	New 12601B		ı					Materials
ARBIDE TIP—Problem	12601-1 12601-100	1 100	12601B		I	1	L			Materials
ARBIDE TIP—Problem	12601-1 12601-100	1 100	New 12601B	2	2%	21/2	31/2	6 Set	1/2	Materials
	12601-1 12601-100 Material Cu 12390	1 100 utting	12601B	2	2%	21/2	31/2	6 Set	1/2	Materials  Cutting Fiberglass, Asphalt Tile, Plastics, Sheet Rock, Plaster and General Wood Cutting
	12601-1 12601-100 Material Cu 12390	1 100 utting	12601B	2 21/8	2%	21/2	31/2	6 Set	1/2 3/8	Materials  Cutting Fiberglass, Asphalt Tile, Plastics, Sheet Rock, Plaster and General Wood Cutting
	12601-1 12601-100 1 Material Cu 12390 Metal Cutting	itting	12601B		L	L	L	14 Set		Cutting Fiberglass, Asphall Tile, Plastics, Sheet Rock, Plaster and General Wood Cutting  Cutting Brass—Bronze—Copper and Non-Ferrous Metals 1/2 to W. Thick—Angle Iron—Mid Steel Sheets and Utbing 1/2 to Wall Thickness
	12501-1 12601-100 1 Material Cu 12390 Metal Cutting 12331-10 12384-10 12324-10	1 100 utting 1 10 10 10 10 10 10 10 10 10 10 10 10 1	12601B   12331  12384  12324 12327		2¾	2%	3%	14 Set	3/8	Materials  Cutting Fiberglass, Asphalt Tile, Plastics, Sheet Rock, Plaster and General Wood Cutting
	12801-1 12801-100 1 Material Cu 12390 Metal Cutting 12331-10 12384-10 12324-10 12324-10 12330-1	atting 1 100 110 110	12331 12331 12384 12324 12327 12324B 12330 12333	21/8	2%	2%	3%	14 Set 24 Set	3/a 1/2	Cuting Fibergiass, Asphalt Tile, Plastics, Sheet Rock, Plaster and General Wood Cuting  Cutling Brass—Bronze—Copper and Non-Ferrous Metals \$2,3 to 1½. Thick—Angle Inon—Mild Steel Sheets and thung \$2,5 to 1½. Wall Thickness  Cuting Window Openings in Steel Core Fire Doors—Copper—Brass and Steel Tubring to 1½ in Diameter  Cuting Brass—Bronze—Copper—Aluminum to 1½ in Thickness. Steel—Steel to 16 1½. In Thickness. Steel—Steel to 16 1½. In Thickness—Cuting Ander Iron—Mild Steel Sheets and Tubrino ver 1½.
	12801-1 12801-100 h Material Ct 12390 Wetal Cutting 12331-10 12384-10 12324-10 12324-10 12330-10 12330-10 12342-10	100 atting 1 10 10 10 10 10 10 10 10 10 10 10 10 1	12331 12384 12324 12327 12324B 12330 12333 12330B 12342 12342 12342 12342	21/8	2¾ 2¾ 2½	2%	31/2	14 Set 24 Set 10 Set	3/8 3/2 3/8	Cuting Fibergiass, Asphalt Tile, Plastics, Sheet Rock, Plaster and General Wood Cuting  Cutting Brass—Bronze—Copper and Non-Ferrous Metals *3y to 1½ * Thick—Angle Ion—Midd Steet Sheets and Young *3y to 1½ * Wall Thickness  Cuting Window Openings in Steet Gore Fire Doors—Copper—Grass and Steel Tubnip 1 to 1½ * In Dameler  Cuting Brass—Bronze—Copper—Aluminum to 1½ * In Thickness, Steet—Cast Iron to 4½ * In *Thickness Steet
ARBIDE TIP—Problem	12801-1 12801-100 1 Material Cu 12390 Metal Cutting 12331-10 12384-10 12324-10 12330-10 12330-11 12330-10 12330-10 12330-10	100 utting 1 10 10 10 10 10 10 10 10 10 10 10 10 1	12331 12384 12324 12327 12328 12330 12330 12330 12330 12330 12342	2 1/s	2% 2% 2% 2%	2%	31/2	14 Set 24 Set 10 Set 14 Set 24 Set	3/8 1/2 3/8	Cutting Fiberglass, Asphalt Tile, Plastics, Sheet Rock, Plaster and General Wood Cutting  Cutting Brass—Bronze—Cooper and Non-Ferrors Metals variety of the Cooper of the
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