HONESTLY NOW … Have you read this OWNER’S MANUAL?

- Safety
- Assembly
- Operation
- Accessory Information
- Warranty
- Registration Form
- Service Parts

Parlez-vous français?
Voir page 21

¿Habla español?
Vea página 41

DREMEL
P.O. Box 1468
Racine, Wisconsin 53401

1-800-437-3635
http://www.dremel.com

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General Safety Rules for All Battery Operated Tools

**WARNING** Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

**SAVE THESE INSTRUCTIONS**

### Work Area

**Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.

**Do not operate power tools in explosive atmospheres,** such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.

**Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

### Electrical Safety

**Do not abuse the cord.** Never use the cord to carry the tool. Keep cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately. Damaged cords may create a fire.

A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.

**Use battery operated tool only with specifically designated battery pack.** Use of any other batteries may create a risk of fire.

### Personal Safety

**Stay alert, watch what you are doing, and use common sense when operating a power tool.** Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

**Dress properly.** Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

**Avoid accidental starting.** Be sure switch is in the locked or off position before inserting battery pack. Carrying tools with your finger on the switch or inserting the battery pack into a tool with the switch on invites accidents.

**Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

**Do not overreach.** Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.

**Use safety equipment.** Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

### Tool Use and Care

**Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.

**Do not force tool.** Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

**Do not use tool if switch does not turn it on or off.** A tool that cannot be controlled with the switch is dangerous and must be repaired.

**Disconnect battery pack from tool or place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.

**Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.

When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.
Safety Rules for Cordless Rotary Tools

Accessories must be rated for at least the speed recommended on the tool warning label. Wheels and other accessories running over rated speed can fly apart and cause injury.

Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator. If cutting into existing walls or other blind areas where electrical wiring may exist is unavoidable, disconnect all fuses or circuit breakers feeding this worksite.

Before changing accessories remove battery pack. Accidental starting may occur because battery tools with a battery inserted are in the operative condition.

Be aware of the switch location, when placing the tool down or when picking the tool up. You may accidentally activate the switch.

Always hold the tool with two hands during start-up. The reaction torque of the motor can cause the tool to twist.

Always wear safety goggles and dust mask. Use only in well ventilated area. Using personal safety devices and working in safe environment reduces risk of injury.

After changing the bits or making any adjustments, make sure the collet nut and any other adjustment devices are securely tightened. Loose adjustment device can unexpectedly shift, causing loss of control, loose rotating components will be violently thrown.

Do not reach in the area of the spinning bit. The proximity of the spinning bit to your hand may not always be obvious.

Allow brushes to run at operating speed for at least one minute before using wheel. During this time no one is to stand in front or in line with the brush. Loose bristles or wires will be discharged during the run-in time.

Wire and bristle brushes must never be operated at speeds greater than 15,000/min. Direct the discharge of the spinning wire brush away from you. Small particles and tiny wire fragments may be discharged at high velocity during the “cleaning” action with these brushes and may become imbedded in your skin. Bristles or wires will be discharged from the brush at high speeds.

“Wear protective gloves and face shield with wire or bristle brushes. Apply wire or bristle brushes lightly to the work as only the tips of the wire/bristles do the work. “Heavy” pressure on bristles will cause the wire or bristle to become overstressed, resulting in a wiping action and will cause the bristles/wire to be discharged.”

Carefully handle both the tool and individual grinding wheels to avoid chipping or cracking. Install a new wheel if tool is dropped while grinding. Do not use a wheel that may be damaged. Fragments from a wheel that bursts during operation will fly away at great velocity possibly striking you or bystanders.

Never use dull or damaged bits. Sharp bits must be handled with care. Damaged bits can snap during use. 

manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

Service

Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock or injury.
Dull bits require more force to push the tool, possibly causing the bit to break.

Use clamps to support workpiece whenever practical. Never hold a small workpiece in one hand and the tool in the other hand while in use. Allow for sufficient space, at least 6”, between your hand and the spinning bit. Round material such as dowel rods, pipes or tubing have a tendency to roll while being cut, and may cause the bit to “bite” or jump toward you. Clamping a small workpiece allows you to use both hands to control the tool.

Inspect your workpiece before cutting. When cutting irregularly shaped workpieces, plan your work so it will not slip and pinch the bit and be torn from your hand. For example, if carving wood, make sure there are no nails or foreign objects in the workpiece. Nails or foreign objects can cause the bit to jump.

Never start the tool when the bit is engaged in the material. The bit cutting edge may grab the material causing loss of control of the cutter.

Avoid bouncing and snagging the wheel, especially when working corners, sharp edges etc. This can cause loss of control and kick-back.

The direction of feed with the bit into the material when carving, routing or cutting is very important. Always feed the bit into the material in the same direction as the cutting edge is exiting from the material (which is the same direction as the chips are thrown). Feeding the tool in the wrong direction, causes the cutting edge of the bit to climb out of the work and pull the tool in the direction of this feed.

If the workpiece or bit becomes jammed or bogged down, turn the tool “OFF” by the switch. If the switch to the tool is left “ON” the tool could restart unexpectedly causing serious personal injury.

Do not leave a running tool unattended, turn power off. Only when tool comes to a complete stop it is safe to put it down.

Do not grind or sand near flammable materials. Sparks from the wheel could ignite these materials.

Do not touch the bit or collet after use. After use the bit and collet are too hot to be touched by bare hands.

Regularly clean the tool's air vents by compressed air. Excessive accumulation of powdered metal inside the motor housing may cause electrical failures.

Do not allow familiarity gained from frequent use of your rotary tool to become commonplace. Always remember that a careless fraction of a second is sufficient to inflict severe injury.

Do not alter or misuse tool. Any alteration or modification is a misuse and may result in serious personal injury.

This product is not intended for use as a dental drill, in human or veterinary medical applications. Serious injury may result.

When using the steel saws, cutoff wheels, high speed cutters or tungsten carbide cutters, always have the work securely clamped. Never attempt to hold the work with one hand while using any of these accessories. The reason is that these wheels will grab if they become slightly canted in the groove, and can kickback causing loss of control resulting in serious injury. Your second hand should be used to steady and guide the hand holding the tool. When a cutoff wheel grabs, the wheel itself usually breaks. When the steel saw, high speed cutters or tungsten carbide cutter grab, it may jump from the groove and you could lose control of the tool.

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

• Lead from lead-based paints,
• Crystalline silica from bricks and cement and other masonry products, and
• Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.
Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery pack, and (3) product using battery.

Use only the charger which accompanied your product or direct replacement as listed in the catalog or this manual. Do not substitute any other charger. Use only Dremel battery charger Nos. 756-01 & 758-01 with your product.

Do not disassemble charger or operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way. Replace damaged cord or plugs immediately. Incorrect reassembly or damage may result in electric shock or fire.

Do not recharge battery in damp or wet environment. Do not expose charger to rain or snow. If battery case is cracked or otherwise damaged, do not insert into charger. Battery short or fire may result.

Charge battery pack in temperatures above +40 degrees F (4 degrees C) and below +105 degrees F (41 degrees C). Store tool and battery pack in locations where temperatures will not exceed 120 degrees F (49 degrees C). This is important to prevent serious damage to the battery cells.

Battery leakage may occur under extreme usage or temperature conditions. Avoid contact with skin and eyes. The battery liquid is caustic and could cause chemical burns to tissues. If liquid comes in contact with skin, wash quickly with soap and water, then with lemon juice or vinegar. If the liquid contacts your eyes, flush them with water for a minimum of 10 minutes and seek medical attention.

Use of an attachment not recommended or sold by Dremel may result in a risk of fire, electric shock or injury to persons.

Battery Care

When batteries are not in tool or charger, keep them away from metal objects. For example, to protect terminals from shorting DO NOT place batteries in a tool box or pocket with nails, screws, keys, etc. Fire or injury may result. DO NOT PUT BATTERIES INTO FIRE OR EXPOSE TO HIGH HEAT. They may explode.

Battery Disposal

Do not attempt to disassemble the battery or remove any component projecting from the battery terminals. Fire or injury may result. Prior to disposal, protect exposed terminals with heavy insulating tape to prevent shorting.

Nickel-Cadmium Batteries

If equipped with a nickel-cadmium battery, the battery must be collected, recycled or disposed of in an environmentally sound manner.

Nickel-Metal Hydride Batteries

If equipped with a nickel-metal hydride battery, the battery can be disposed of in a municipal solid waste stream.

“The EPA certified RBRC Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates S-B Power Tool Company is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-8-BATTERY for information on Ni-Cd battery recycling and disposal bans/restrictions in your area, or return your batteries to a Skil/Bosch/Dremel Service Center for recycling. S-B Power Tool Company's involvement in this program is part of our commitment to preserving our environment and conserving our natural resources.”

Nickel-Metal Hydride Batteries

If equipped with a nickel-metal hydride battery, the battery can be disposed of in a municipal solid waste stream.
## Symbols

**IMPORTANT:** Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Name</th>
<th>Designation/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>Volts</td>
<td>Voltage (potential)</td>
</tr>
<tr>
<td>A</td>
<td>Amperes</td>
<td>Current</td>
</tr>
<tr>
<td>Hz</td>
<td>Hertz</td>
<td>Frequency (cycles per second)</td>
</tr>
<tr>
<td>W</td>
<td>Watt</td>
<td>Power</td>
</tr>
<tr>
<td>kg</td>
<td>Kilograms</td>
<td>Weight</td>
</tr>
<tr>
<td>min</td>
<td>Minutes</td>
<td>Time</td>
</tr>
<tr>
<td>s</td>
<td>Seconds</td>
<td>Time</td>
</tr>
<tr>
<td>Ø</td>
<td>Diameter</td>
<td>Size of drill bits, grinding wheels, etc.</td>
</tr>
<tr>
<td>n₀</td>
<td>No load speed</td>
<td>Rotational speed, at no load</td>
</tr>
<tr>
<td>.../min</td>
<td>Revolutions or reciprocation per minute</td>
<td>Revolutions, strokes, surface speed, orbits etc. per minute</td>
</tr>
<tr>
<td>0</td>
<td>Off position</td>
<td>Zero speed, zero torque...</td>
</tr>
<tr>
<td>1, 2, 3, ...</td>
<td>Selector settings</td>
<td>Speed, torque or position settings. Higher number means greater speed</td>
</tr>
<tr>
<td>0 ≥</td>
<td>Infinitely variable selector with off</td>
<td>Speed is increasing from 0 setting</td>
</tr>
<tr>
<td>→</td>
<td>Arrow</td>
<td>Action in the direction of arrow</td>
</tr>
<tr>
<td>⊕</td>
<td>Alternating current</td>
<td>Type or a characteristic of current</td>
</tr>
<tr>
<td>⊖</td>
<td>Direct current</td>
<td>Type or a characteristic of current</td>
</tr>
<tr>
<td>⊕ ⊖</td>
<td>Alternating or direct current</td>
<td>Type or a characteristic of current</td>
</tr>
<tr>
<td>⊕</td>
<td>Class II construction</td>
<td>Designates Double Insulated Construction tools.</td>
</tr>
<tr>
<td>⊕</td>
<td>Earthing terminal</td>
<td>Grounding terminal</td>
</tr>
<tr>
<td>⚠️</td>
<td>Warning symbol</td>
<td>Alerts user to warning messages</td>
</tr>
<tr>
<td>⊕ Ni-Cad RBRC seal</td>
<td>Ni-Cad RBRC seal</td>
<td>Designates Ni-Cad battery recycling program</td>
</tr>
</tbody>
</table>
IMPORTANT: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

This symbol designates that this tool is listed by Underwriters Laboratories.

This symbol designates that this tool is listed to Canadian Standards by Underwriters Laboratories.

This symbol designates that this tool is listed by the Canadian Standards Association.

This symbol designates that this tool is listed by Underwriters Laboratories, and listed to Canadian Standards by Underwriters Laboratories.

This symbol designates that this tool complies to NOM Mexican Standards.
**WARNING** Disconnect battery pack from tool or place the switch in the locked or off position before making any assembly, adjustments or changing accessories. Such preventive safety measures reduce the risk of starting the tool accidentally.

### Cordless Rotary Tool

![Diagram of Rotary Tool Components]

<table>
<thead>
<tr>
<th>Component</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collet Nut</td>
<td>![Symbol]</td>
</tr>
<tr>
<td>Switch</td>
<td>![Symbol]</td>
</tr>
<tr>
<td>Battery Pack</td>
<td>![Symbol]</td>
</tr>
<tr>
<td>Release Tab</td>
<td>![Symbol]</td>
</tr>
<tr>
<td>Charger</td>
<td>![Symbol]</td>
</tr>
</tbody>
</table>

### Rotary Tools

<table>
<thead>
<tr>
<th>Model number</th>
<th>Voltage rating</th>
<th>No load speed</th>
<th>Collet Capacities</th>
</tr>
</thead>
<tbody>
<tr>
<td>750</td>
<td>4.8 V</td>
<td>6,500-13,000/min</td>
<td>1/32&quot;, 1/16&quot;, 3/32&quot;, 1/8&quot;</td>
</tr>
<tr>
<td>770</td>
<td>7.2 V</td>
<td>10,000-20,000/min</td>
<td></td>
</tr>
</tbody>
</table>

### Chargers

<table>
<thead>
<tr>
<th>Model number</th>
<th>Voltage rating</th>
<th>Amperage rating</th>
<th>Charge time</th>
</tr>
</thead>
<tbody>
<tr>
<td>756-01</td>
<td>120 V</td>
<td>200 mA</td>
<td>3 Hr.</td>
</tr>
<tr>
<td>758-01</td>
<td>120 V, 60 Hz</td>
<td>200 mA</td>
<td>3 Hr.</td>
</tr>
</tbody>
</table>
Assembly

**WARNING**

ALWAYS BE SURE THE TOOL IS IN THE “0” POSITION BEFORE CHANGING ACCESSORIES, CHANGING COLLETS OR SERVICING YOUR CORDLESS ROTARY TOOL.

**CAUTION**

Do not engage lock while the Tool is running.

With the shaft lock engaged, loosen the collet nut by hand. Change accessories by inserting the new one into the collet as far as possible to minimize runout and unbalance. With the shaft lock engaged, finger tighten the collet nut until the accessory shank is gripped by the collet. Avoid excessive tightening of the collet nut when there is no bit inserted.

**COLLETS** — Four different size collets (see illustration), to accommodate different shank sizes, are available for your Cordless Rotary Tool. To install a different collet, remove the collet nut and remove the old collet. Insert the unslotted end of the collet into the hole in the end of the tool shaft. Replace collet nut on the shaft. Always use the collet which matches the shank size of the accessory you plan to use. Never force a larger diameter shank into a collet.

**COLLET IDENTIFICATION CHART** — Collet sizes can be identified by the rings on the back end of collet. 1/32” Collet has one (1) ring. 1/16” Collet has two (2) rings. 3/32” Collet has three (3) rings. 1/8” Collet has no rings.

**BALANCING ACCESSORIES** — For precision work, it is important that all accessories be in good balance (much the same as the tires on your automobile). To true up or balance an accessory, slightly loosen collet nut and give the accessory or collet a 1/4 turn. Retighten collet nut and run the Tool. You should be able to tell by the sound and feel if your accessory is running in balance. Continue adjusting in this fashion until best balance is achieved. To maintain balance on abrasive wheel points, before each use, with the wheel point secured in the collet, turn on the Cordless Rotary Tool and run the 415 Dressing Stone lightly against the revolving wheel point. This removes high spots and trues up the wheel point for good balance.

Remember, your new Dremel Cordless Rotary Tool is the finest power tool of its kind. But its performance is only as good as the accessories with which it is used. We recommend only Dremel accessories be used. Use of any other accessories may create a hazard. We hope you’ll enjoy many years of trouble free pleasure from your Dremel Cordless Rotary Tool.
Read the next sections carefully. They will help you use your Cordless Rotary Tool correctly and help you select the correct accessory for your job.

**Charging the Tool**

The Cordless Rotary Tool is not fully charged. The tool is equipped with a removable battery pack. Be sure to charge pack prior to initial use. For best results on first charge, charge pack overnight.

**To charge the tool:**

1. Put the switch in the “OFF” position.
2. Squeeze release tabs on both sides of battery pack, and remove pack from back of tool as shown on page 8.
3. Align exterior shape of battery pack with exterior shape of charger, squeeze release tabs, insert battery pack into charger as shown and release pressure on tabs so it locks in place.
4. Plug charger into the power source. The green L.E.D. light indicates connection has been made and the battery pack is charging. The LED light will remain lit even after charging is complete. Under normal usage the tool normally requires 3 hours charging time to reach full capacity.
5. When charging is completed, squeeze release tabs on battery pack and remove pack from charger.
6. Align exterior shape of battery pack with exterior shape of the housing of tool as shown. Squeeze release tabs, insert battery pack into back of tool, and release pressure on tabs so it locks in place.

**Important Charging Notes**

If you anticipate long periods of non-use for your tool it’s best to unplug your charger and battery pack from its power source. Unplugging the charger will extend the life expectancy of the charger and battery pack.

The battery pack accepts only about 80% of its maximum charge capacity with its first charge; or, after prolonged storage it will also require additional time on the first charge. However, after several charge and discharge cycles, the batteries should be up to full charge capacity and delivering maximum performance.
Using the Cordless Rotary Tool

The first step in learning to use the Cordless Rotary Tool is to get the “feel” of it. Hold it in your hand and feel its weight and balance. Feel the taper of the housing. This taper permits the tool to be grasped much like a pen or pencil.

When you turn on the tool for the first time, hold it away from your face. Accessories can be damaged during handling, and can fly apart as they come up to speed. This is not common, but it does happen.

Practice on scrap materials first to see how the Cordless Rotary Tool cuts. Keep in mind that the work is done by the speed of the tool and by the accessory in the collet. You should not lean on or push the tool into the work. Instead, lower the spinning accessory lightly to the work and allow it to touch the point at which you want cutting (or sanding or etching, etc.) to begin. Concentrate on guiding the tool over the work using very little pressure from your hand. Allow the accessory to do the work.

Usually, it is best to make a series of passes with the tool rather than attempt to do all the work in one pass. To make a cut, for example, pass the tool back and forth over the work, much as you would a small paint brush. Cut a little material on each pass until you reach the desired depth. For most work, the deft, gentle touch is best. With it, you have the best control, are less likely to make errors, and will get the most efficient work out of the accessory.

For best control in close work, grip the Rotary Tool like a pencil between your thumb and forefinger.

The “handgrip” method of holding the tool is used for operations such as grinding a flat surface or using cutoff wheels.

WARNING

Wear Eye Protection
Operating Speeds For Accessories

Set the speed indicator to fit the job to achieve the best job results when working with different materials.

To select the right speed for each job, use a practice piece of material. Vary speed to find the best speed for the accessory you are using and the job to be done.

On the Model 750, there is a LO and HI switch. When the switch indicator is in position 1 or LO, the tool runs at about 6,500 RPM. When the switch indicator is in position 2 or HI, the tool runs at about 13,000 RPM.

On the Model 770, there is a LO and HI switch. When the switch indicator is in position 1 or LO, the tool runs at about 10,000 RPM. When the switch indicator is in position 2 or HI, the tool runs at about 20,000 RPM.

You can refer to the charts on pages 13 and 14 to determine the proper speed, based on the material being worked and the type of cutter or other accessory being used. These charts enable you to select both the correct accessory and the optimum speed at a glance.

Needs for Slower Speeds

Certain materials, however, (some plastics, for example) require a relatively slow speed because at high speed the friction of the tool generates heat and causes the plastic to melt.

Most work is done at high speed on your Cordless Rotary Tool. Lower speeds are needed only for certain tasks.

The speed of Models 750 & 770 is controlled by setting this indicator on the housing.

Using the Cordless Rotary Tool Model 770 with Attachments

The Cordless Rotary Tool model 770 can be used with some Dremel attachments that screw onto the nose of the tool.

Model 770 can be used with the 568 Grout Removal attachment, 675 Lawnmower and Garden Tool Sharpener, and the 1453 Chainsaw Sharpener attachment.

Use of other Dremel attachments not listed is not recommended. Dremel attachments cannot be used with the cordless tool model 750.
### SPEED SETTINGS

Speed for plastic depends on thickness of material or amount of material to be removed.

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>SOFT WOOD</th>
<th>HARD WOOD</th>
<th>LAMINATES PLASTIC</th>
<th>STEEL</th>
<th>ALUMINUM, BRASS, ETC.</th>
<th>SHELL/STONE</th>
<th>CERAMIC</th>
<th>GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>100, 114, 115, 116, 117, 118, 121, 124, 125, 131, 134, 141, 144, 178, 189, 190, 191, 192, 193, 194, 196, 197, 198, 199</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HIGH SPEED CUTTERS**

**SMALL ENGRAVING CUTTERS**

| 105, 106, 107, 108, 109, 110, 111, 112, 113 | 2 | 2 | 1 | 2 | 2 |

**RUBBER POLISHING POINT**

| 425, 427 | 2 |

**CUTTING ACCESSORIES — SEE WARNING PAGE 4**

| 409, 420, 426, 540 | 1 | 2 | 2 | 2 | 2 |
| 542 | 2 | 2 | 1 |
| 545 | 2 | 2 | 2 |
| 541 | 2 | 2 | 1 |

**DIAMOND WHEEL POINTS**

| 7103, 7105, 7117, 7120, 7122, 7123, 7134, 7144 | 2 | 2 | 2 |
| 7103, 7105, 7117, 7120, 7122, 7123, 7134, 7144 | 2 | 2 | 2 |

**ALUMINUM OXIDE GRINDING STONES**

| 903, 911, 921, 932, 941, 945, 952, 953, 954, 971, 997, 8153, 8175, 8193, 8215, 541 | 2 | 2 | 2 | 1 | 2 | 2 |
### SPEED SETTINGS

Speed for plastic depends on thickness of material or amount of material to be removed.

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>SOFT WOOD</th>
<th>HARD WOOD</th>
<th>LAMINATES PLASTIC</th>
<th>STEEL</th>
<th>ALUMINUM, BRASS, ETC.</th>
<th>SHELL/STONE</th>
<th>CERAMIC</th>
<th>GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>83142, 83322, 83702, 84902, 85422, 85602, 85622</td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
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</tr>
<tr>
<td>9901, 9902, 9903, 9904, 9905, 9906, 9912</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td></td>
<td>2</td>
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<tr>
<td>9909, 9910, 9911</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

**SILICON CARBIDE GRINDING STONES**

**TUNGSTEN CARBIDE CUTTERS**

**SANDING BANDS AND DISCS**

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**DRILL BIT**

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**GROUT REMOVAL BITS**

Use only Dremel Tested, High Performance Accessories.
Service

NO USER SERVICEABLE PARTS INSIDE. Preventive maintenance performed by unauthorized personnel may result in misplacing of internal wires and components which could cause serious hazard. We recommend that all tool service be performed by a Dremel Service Facility. 

SERVICEMEN: Disconnect tool and/or charger from power source before servicing.

D.C. motors

The motor in your tool has been engineered for many hours of dependable service. To maintain peak efficiency of the motor, we recommend it be examined every six months. Only a genuine Dremel replacement motor specially designed for your tool should be used.

Cleaning

To avoid accidents, always disconnect the tool and/or charger from the power supply before cleaning. The tool may be cleaned most effectively with compressed dry air. Always wear safety goggles when cleaning tools with compressed air.

Ventilation openings and switch levers must be kept clean and free of foreign matter. Do not attempt to clean by inserting pointed objects through opening.

Extension Cords

If an extension cord is necessary, a cord with adequate size conductors that is capable of carrying the current necessary for your tool must be used. This will prevent excessive voltage drop, loss of power or overheating. Grounded tools must use 3-wire extension cords that have 3-prong plugs and receptacles.

Recommended Sizes of Extension Cords

120 VOLT ALTERNATING CURRENT TOOLS

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<th>Tool's Ampere Rating</th>
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<th>Wire Sizes in mm²</th>
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<tr>
<td>10-12</td>
<td>16 16 14 12</td>
<td>1.0 2.5 4.0 —</td>
</tr>
<tr>
<td>12-16</td>
<td>14 12 — — —</td>
<td>— — — — — — — —</td>
</tr>
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NOTE: The smaller the gauge number, the heavier the cord.
The number and variety of accessories for the Rotary Tool are almost limitless. There is a category suited to almost any job you might have to do — and a variety of sizes and shapes within each category which enables you to get the perfect accessory for every need.

Refer to the DREMEL ORDER FORM for the accessories available. These accessories may be found at your local hardware, hobby or home center dealers.

**Collets**

If you expect to use a variety of accessories, we recommend that in the beginning you purchase a complete set of four collets. Store these so that you will have the proper size of collet for any accessory or drill bit you want to use. Currently, the 1/8", 3/32", 1/32" and 1/16" collets accommodate all of the available Dremel accessories.

**Mandrels**

A mandrel is a shank with a threaded or screw head, which are required when you use polishing accessories, cutting wheels, sanding discs, and polishing points. The reason mandrels are used is that sanding discs, cutting wheels and similar accessories must be replaced frequently. The mandrel is a permanent shank, allowing you to replace only the worn head when necessary, thus saving the expense of replacing the shaft each time.

**Screw Mandrel No. 401**

This is a screw mandrel used with the felt polishing tip and felt polishing wheels.

**Small Screw Mandrel No. 402**

This is a mandrel with a small screw at its tip, and is used with emery cutting wheels, sanding discs and polishing wheels.

**Threaded Tip Mandrel No. 424**

This is a mandrel with a threaded tip which threads into the polishing point accessory No. 427.

**Tungsten Carbide Cutters**

These are tough, long-lived cutters for use on hardened steel, fired ceramics and other very hard materials. They can be used for engraving on tools and garden equipment.

**Engraving Cutters**

This group has a wide variety of sizes and shapes, and are made for intricate work on ceramics (greenware), wood carvings, jewelry and scrimshaw. They often are used in making complicated printed circuit boards. They should not be used on steel and other very hard materials but are excellent on wood, plastic and soft metals. Needs 3/32" collet.

**Structured Tooth**

Fast cutting, needle-sharp teeth for greater material removal with minimum loading. Use on fiberglass, wood, plastic, epoxy and rubber.

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**Cordless Rotary Tool Accessories**

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**WARNING**

Use only Dremel Tested, High Performance Accessories. Other accessories are not designed for this tool and may lead to personal injury or property damage.

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Aluminum Oxide Grinding Stones (orange/brown)
Round, pointed, flat — you name the shape and there is one available in this category. These are made of aluminum oxide and cover virtually every possible kind of grinding application. Use them for sharpening lawn mower blades, screwdriver tips, knives, scissors, chisels and other cutting tools. Use to remove flash from metal castings, deburring any metal after cutting, smoothing welded joints, grinding off rivets and removing rust. In machine shops, high speed drills and cutters normally are ground with aluminum oxide wheels.

Silicon Carbide Grinding Stones (green/gray)
Tougher than aluminum oxide points, these are made especially for use on hard materials such as glass and ceramics. Typical uses might be the removal of stilt marks and excess glaze on ceramics and engraving on glass.

Diamond Wheel Points
Excellent for fine detail work on wood, jade, ceramic, glass and other hard material. Bits are covered with diamond particles. 3/32” shanks.

Polishing Accessories
These include an impregnated polishing point and an impregnated polishing wheel for bringing metal surfaces to smooth finish; a felt polishing tip and felt polishing wheel, all used for polishing plastics, metals, jewelry and small parts. Also included in this group is a polishing compound (No. 421) for use with the felt and cloth polishers.

No polishing compound is needed when using the 425 Polishing Wheel or 427 Polishing point.

Aluminum Oxide Abrasive Wheels
Use to remove paint, deburr metal, polish stainless steel and other metals. Available in fine and medium grits.

Sanding Accessories
Sanding discs in fine, medium and coarse grades are made to fit mandrel No. 402. They can be used for nearly any small sanding job you might have, from model making to fine furniture finishing. In addition, there is the drum sander, a tiny drum which fits into the Rotary Tool and makes it possible to shape wood, smooth fiberglass, sand inside curves and other difficult places, and other sanding jobs. You replace the sanding bands on the drum as they become worn and lose their grit. Bands come in fine and coarse grades.

Wire Brushes
Three different shapes of wire brushes are available. For best results wire brushes should be used at speeds not greater than 15,000 RPM. The three shapes come in three different materials: stainless steel, brass and carbon wire. The stainless steel perform well on pewter, aluminum, stainless steel, and other metals, without leaving ‘after-rust’. Brass brushes are non sparking, and softer than steel; making them good for use on soft metal like gold, cooper and brass. The carbon wire brushes are good for general purpose cleaning.
Bristle Brushes
These are excellent cleaning tools on silverware, jewelry and antiques. The three shapes make it possible to get into tight corners and other difficult places. Bristle brushes can be used with polishing compound for faster cleaning or polishing.

Brushing Pressure
1. Remember, the tips of a wire brush do the work. Operate the brush with the lightest pressure so only the tips of the wire come in contact with the work.

2. If heavier pressures are used, the wires will be overstressed, resulting in a wiping action; and if this is continued, the life of the brush will be shortened due to wire fatigue.

3. Apply the brush to the work in such a way that as much of the brush face as possible is in full contact with the work. Applying the side or edge of the brush to the work will result in wire breakage and shortened brush life.

Grinding Wheel
Use for deburring, removing rust, and general purpose grinding. Use with Mandrel #402.

Cutting Wheels
These thin discs of emery or fiberglass are used for slicing, cutting off and similar operations. Use them for cutting off frozen bolt heads and nuts, or to reslot a screw head which has become so damaged that the screwdriver won’t work in it. Fine for cutting BX cable, small rods, tubing, cable and cutting rectangular holes in sheet metal.

High Speed Cutters
Made of high quality steel. All have 1/8” shanks. Can be used for shaping, hollowing most metals, plastics and woods.

Drywall Cutting Bit
Gives you fast, clean cuts in drywall.

Spiral Cutting Bit
Cuts through all types of wood and wood composites.
Mandrel No. 401 is used with the felt polishing tip and wheels. Thread the tip on to the screw carefully. The felt tip must thread down straight on the screw Mandrel, and be turned all the way to the collar.

Mandrel No. 402 has a small screw at its tip, and is used with emery cutting wheels and sanding discs. Higher speeds, usually maximum, are best for most work, including cutting steel. Which is shown here.

The machine-screw threading on Mandrel No. 424 threads into polishing point No. 427. This and other threaded mandrels must be screwed firmly down to the collar before being used.
Dremel Limited Warranty

Your Dremel product is warranted against defective material or workmanship for a period of two years from date of purchase. In the event of a failure of a product to conform to this written warranty, please take the following action:

1. DO NOT return your product to the place of purchase.
2. Carefully package the product by itself, with no other items, and return it, freight prepaid, along with:
   A. A copy of your dated proof of purchase (please keep a copy for yourself).
   B. A written statement about the nature of the problem.
   C. Your name, address and phone number to:

   UNITED STATES
   Dremel Service Center
   4915 Twenty-First Street
   Racine, Wisconsin 53406

   CANADA
   Giles Tool Agency
   6520 Lawrence Av. East
   Scarborough, Ont.
   Canada M1C 4A7
   1-888-285-3476

   OR
   Dremel Service Center
   4631 E. Sunny Dunes
   Palm Springs, CA 92264

   OUTSIDE
   CONTINENTAL UNITED STATES
   See your local distributor or write
to Dremel, 4915 Twenty-First St.
Racine, Wisconsin 53406

We recommend that the package be insured against loss or in transit damage for which we cannot be responsible.

This warranty applies only to the original registered purchaser. DAMAGE TO THE PRODUCT RESULTING FROM TAMPERING, ACCIDENT, ABUSE, NEGLIGENCE, UNAUTHORIZED REPAIRS OR ALTERATIONS, UNAPPROVED ATTACHMENTS OR OTHER CAUSES UNRELATED TO PROBLEMS WITH MATERIAL OR WORKMANSHIP ARE NOT COVERED BY THIS WARRANTY.

No employee, agent, dealer or other person is authorized to give any warranties on behalf of Dremel. If Dremel inspection shows that the problem was caused by problems with material or workmanship within the limitations of the warranty, Dremel will repair or replace the product free of charge and return product prepaid. Repairs made necessary by normal wear or abuse, or repair for product outside the warranty period, if they can be made, will be charged at regular factory prices.

DREMEL MAKES NO OTHER WARRANTY OF ANY KIND WHATEVER, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE ABOVE MENTIONED OBLIGATION ARE HEREBY DISCLAIMED BY DREMEL AND EXCLUDED FROM THIS LIMITED WARRANTY.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. The obligation of the warrantor is solely to repair or replace the product. The warrantor is not liable for any incidental or consequential damages due to any such alleged defect. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.

For prices and warranty fulfillment in the continental United States, contact your local Dremel distributor.
## MODEL 750 Type 2
### MODÈLE 750 Type 2
### MODELO 750 Tipo 2

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