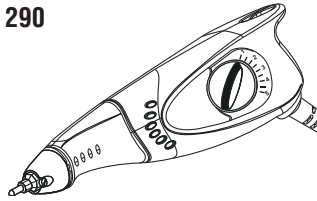




Operating/Safety  
Instructions

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**DREMEL®**

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# **IMPORTANT SAFETY INSTRUCTIONS**

## **WARNING**

– When using electric appliances, basic precautions should always be followed, including the following:

- a) Read all the instructions before using the appliance.
- b) To reduce the risk of injury, close supervision is necessary when an appliance is used near children.
- c) Do not contact moving parts.
- d) Only use attachments recommended or sold by the manufacturer.
- e) Do not use outdoors.
- f) To disconnect, turn all controls to the off ("O") position, then remove plug from outlet.
- g) Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- h) Unplug from outlet when not in use and before cleaning.
- i) This appliance is provided with double insulation and has no serviceable parts. See additional information for Double Insulated Appliances in the Installation Instructions.
- j) To reduce the risk of electrical shock, do not put engraver in water or other liquid. Do not place or store appliance where it can fall or be pulled into a tub or sink.

- k) This appliance is provided with double insulation. Use only identical replacement parts. See instructions for Servicing of Double-Insulated Appliances.
- l) For proper appliance installation, refer to the "Installation Instructions" section.

## **SAVE THESE INSTRUCTIONS**

### **INSTALLATION INSTRUCTIONS**

To Reduce the Risk of Electric Shock, this appliance has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

### **SERVICING OF DOUBLE-INSULATED APPLIANCES**

In a double-insulated appliance, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated appliance, nor should a means for grounding be added to the appliance. Servicing of a double-insulated appliance requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated appliance must be identical to those parts in the appliance. A double-insulated appliance is marked with the words "DOUBLE INSULATION" or "DOUBLE INSULATED" The symbol (square within a square) may also be marked on the appliance.

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**⚠ WARNING** 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.

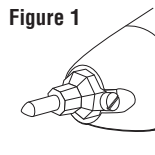
Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

### Operating Instructions

No matter how you use your Dremel electric engraver, you'll do a professional-like job by following the simple operating instructions shown.

1. In order to use your engraver, you must first install the engraver point. To properly install the engraver point loosen the set screw located in the engraver point holder (figure 1). Place the engraver point inside the point holder and firmly tighten the set screw.

It is important to make sure the engraver point is held firmly in place by the set screw. To remove a worn out



engraver point, loosen the set screw and remove the engraver point (figure 1). Replacement engraver points may be purchased from your Dremel dealer or direct from the factory.

2. Before plugging in the tool, be certain that the outlet voltage you are using matches the voltage number marked on the back label (name plate label) that is located on the engraver.

3. To use the engraver, turn the engraver "on" by moving the on/off switch located at the end of the tool (figure 2). Hold the engraver at a slight angle as you would normally hold a pencil. Hold the unit lightly while resting your arm comfortably on a

**Figure 2**

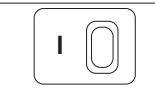
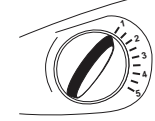


table. Do not press down hard while engraving. Use a light touch guiding the point over the work somewhat slower than you would normally write.

4. The adjusting knob on the side of the engraver housing controls the stroke length and therefore the depth of engraving (Figure 3). It is not intended to be used as an "OFF" switch. A good "rule of thumb" is to select the lowest setting which will produce a

**Figure 3**



deep enough engraving mark to meet your requirements. To familiarize yourself, experiment with different settings on scrap materials.

**NOTE:** The "lowest" position of the adjusting knob will be with the knob pointing to the number "1" on the

housing. With extended use, the positive detent indicator associated with the depth control knob will begin to wear down and be less noticeable. This is to be expected and does not indicate malfunction of the engraver.

5. The engraver point furnished with your engraver is carbide steel. Under most conditions it will perform very satisfactorily on glass, steel, ceramics and other hard-materials. However, for industrial and commercial work where continuous operation is required, a diamond point is recommended.

**⚠ WARNING** Do not engrave on electronic media such as CDs, DVDs, etc. Engraving on these materials may damage the media.

#### **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:

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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.